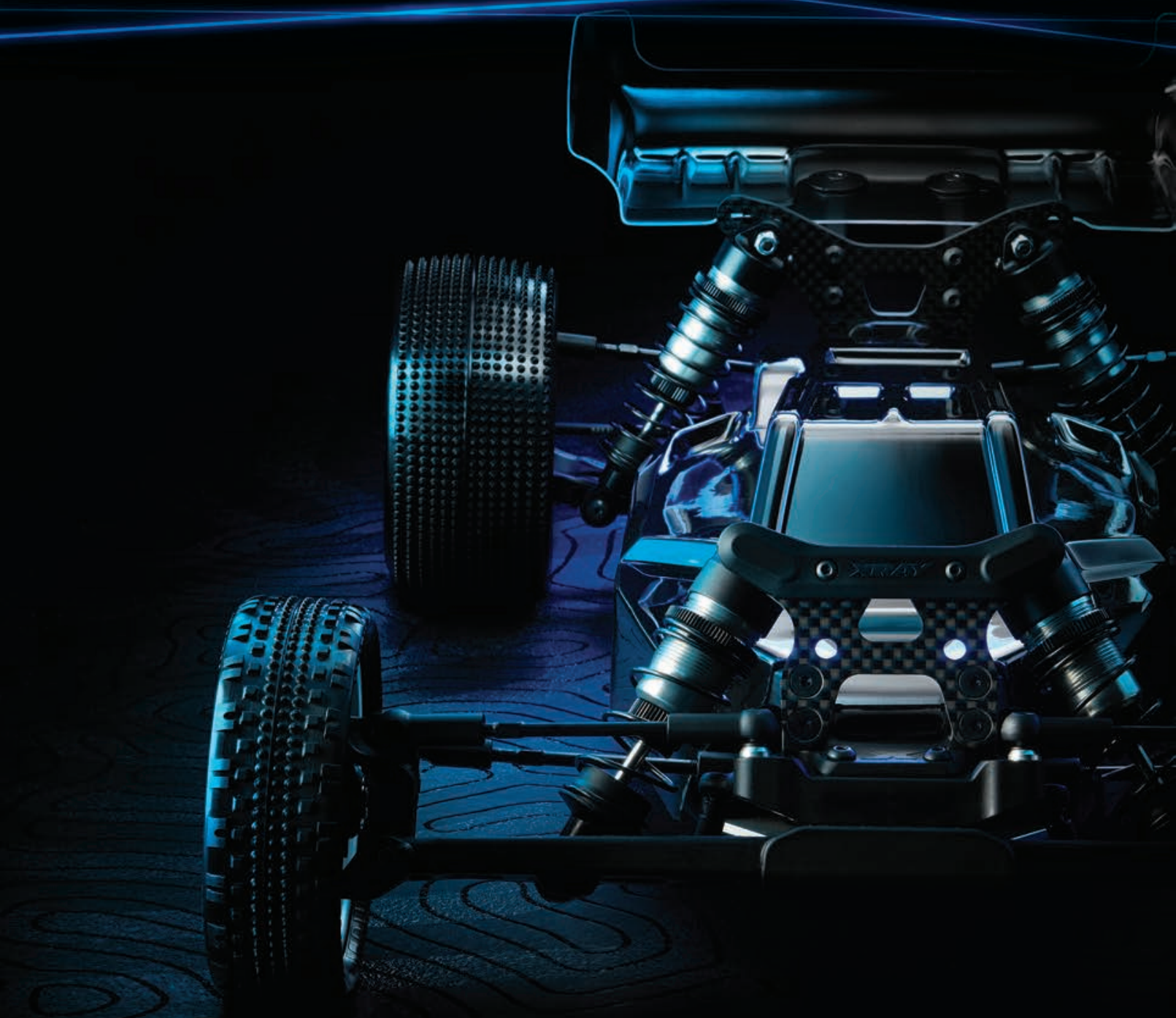
1/10 ELECTRIC OFF-ROAD BUGGY 2WD

XRAY XB2



INSTRUCTION MANUAL

FOR XB2C'27 & XB2D'27 EDITION

BEFORE YOU START

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

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

Read carefully and fully understand the instructions before beginning assembly.

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

Contents of the box may differ from pictures. In line with our policy of continuous product development, the exact specifications of the kit may vary without prior notice.

CUSTOMER SUPPORT

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

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

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Phone: 421-32-7401100
Fax: 421-32-7401109
E-mail: info@teamxray.com

XRAY USA
RC America, 2030 Century Center Blvd #15 Irving,
TX 75062
USA
Phone: (214) 744-2400
Fax: (214) 744-2401
E-mail: xray@rcamerica.com

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

SAFETY PRECAUTIONS

Contains:
LEAD (CAS 7439-92-1) ANTIMONY (CAS 7440-36-0)
WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.
CAUTION: CANCER HAZARD
Contains lead, a listed carcinogen. Lead is harmful if ingested. Wash thoroughly after using. DO NOT use product while eating, drinking or using tobacco products. May cause chronic effects to gastrointestinal tract, CNS, kidneys, and blood. MAY CAUSE BIRTH DEFECTS.

When building, using and/or operating this model always wear protective glasses and gloves.

Take appropriate safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation! Please read the instruction manual before building and operating this model and follow all safety precautions. Always keep the instruction manual at hand for quick reference, even after completing the assembly. Use only genuine and original authentic XRAY parts for maximum performance. Using any third party parts on this model will void guaranty immediately.

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

IMPORTANT NOTES – GENERAL

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

To prevent any serious personal injury and/or damage to property, please be responsible when operating all remote controlled models.

IMPORTANT NOTES – ELECTRICAL

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) to prevent dangerous short circuits. Take maximum care in wiring, connecting and insulating cables. Make sure cables are always connected securely. Check connectors for if they become loose. And if so, reconnect them securely. Never use RC models with damaged wires. A damaged wire is extremely dangerous, and can cause short-circuits resulting in fire. Please have wires repaired at your local hobby shop.
- Low battery power will result in loss of control. Loss of control can occur due to a weak battery in either the transmitter or the receiver. Weak running battery may also result in an out of control car if your car's receiver power is supplied by the running battery. Stop operation immediately if the car starts to slow down.
- When NOT using RC model, always disconnect and remove battery.
- DO NOT disassemble battery or cut battery cables. If the running battery short-circuits, approximately 300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging, or using inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check and/or repair and/or replacement.
- Regularly check the charger for potential hazards such as damage to the cable, plug, casing or other defects. Ensure that any damage is rectified before using the charger again. Modifying the charger may cause short-circuit or overcharging leading to a serious accident. Therefore DO NOT modify the charger.
- Always unplug charger when recharging is finished.
- DO NOT recharge battery while battery is still warm. After use, battery retains heat. Wait until it cools down before charging.
- DO NOT allow any metal part to short circuit the receiver batteries or other electrical/ electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- Please dispose of batteries responsibly. Never put batteries into fire.

R/C & BUILDING TIPS

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

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

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

WARRANTY

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

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

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

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

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

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

QUALITY CERTIFICATE

XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newly-purchased kit are manufactured with the highest regard to quality. However, due to the many factors inherent in model racecar competition, we cannot guarantee any parts once you start racing the car. Products which have been worn out, abused, neglected or improperly operated will NOT be covered under warranty. We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

In line with our policy of continuous product development, the exact specifications of the kit may vary. In the unlikely event of any problems with your new kit, you should contact the model shop where you purchased it, quoting the part number.
We do reserve all rights to change any specification without prior notice. All rights reserved.

TOOLS REQUIRED

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)



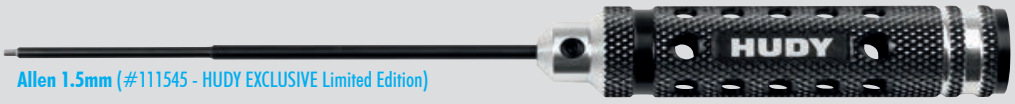
Turnbuckle Wrench 3.5mm (HUDY #181036)



HUDY Tweezers Straight (HUDY #188970)



HUDY Tweezers Curved (HUDY #188971)



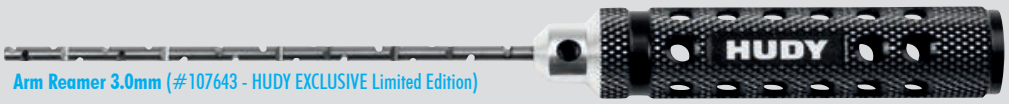
Allen 1.5mm (#111545 - HUDY EXCLUSIVE Limited Edition)



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



Ball Allen 2.0mm (#132045 - 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)



Professional Multi Tool (HUDY #183011)



Scissors (HUDY #188990)



Ball Joint Wrench (HUDY #181110)

EQUIPMENT INCLUDED



300cSt (#106330)
HUDY Premium Silicone Oils

CARPET DIRT



50.000cSt (#106550)
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

EQUIPMENT REQUIRED

Transmitter



Receiver



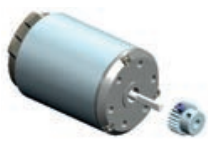
Speed Controller



Steering Servo



Electric Motor & Pinion Gear with Setscrew



LiPo Battery



Battery Charger



OPTION Double-sided Tape (HUDY #107875)



Lexan™ Paint



OPTION Tires & Inserts



OPTION Bearing Oil (HUDY #106230)



Threadlock



CA glue



NOT INCLUDED

OPTION

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

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

COLOR INDICATIONS

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

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

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

321100 **STYLE B** - indicates parts that are included in the box.

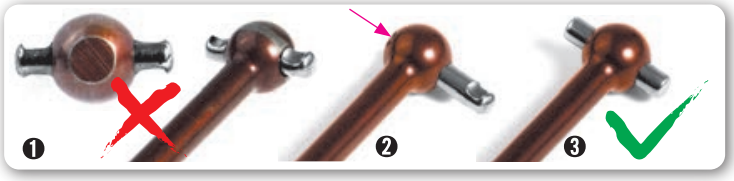
324900 **STYLE C** - indicates parts that are already assembled from previous steps.

325100 **STYLE D** - indicates parts that are OPTIONAL.

TECH TIPS

TIP DRIVE SHAFT PIN SERVICING

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



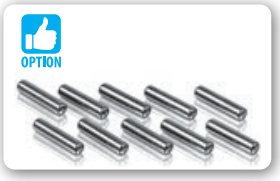
DO NOT use drive shafts when the pins are worn.

Press out the worn pins.

Press in new pins and regularly inspect for wear.



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



To replace the worn pins use only premium HUDY drive pins (#106053 2.5mm dia x 10mm length)

CARBON PARTS PREPARATION

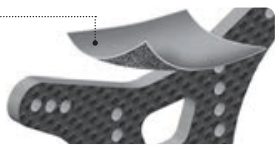
Follow this Tech Tip to prepare the carbon parts. Sand the edges with sandpaper, and then seal the edges with CA glue to reinforce them and help prevent delamination.

Prepare all Carbon Parts:

- Front shock tower
- Rear shock tower

Fine sandpaper

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



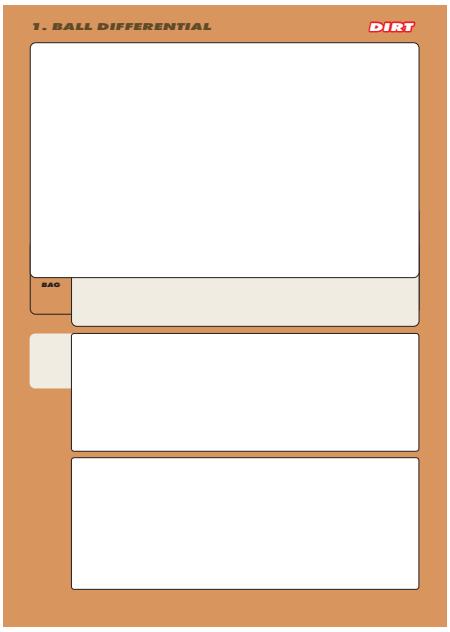
CA

Apply CA glue to all edges of the carbon parts.

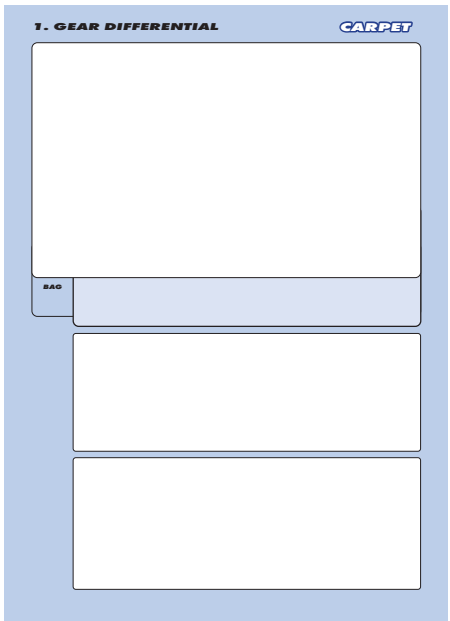


MANUAL PAGE MARKING

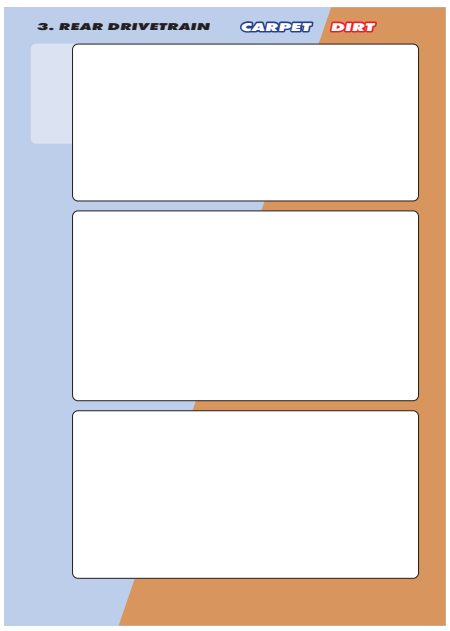
MANUAL STEPS ONLY FOR DIRT



MANUAL STEPS ONLY FOR CARPET



MANUAL DUAL STEPS FOR CARPET AND 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.

HUDY PREMIUM SILICONE OILS



TIP

TIPS FOR GEAR DIFFERENTIAL

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

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

HUDY 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	OPTION
#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	OPTION
#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	INCLUDED
#106560	60.000cSt - 50ml	OPTION
#106580	80.000cSt - 50ml	OPTION
#106610	100.000cSt - 50ml	OPTION
#106615	150.000cSt - 50ml	OPTION

HUDY TITANIUM 5.4mm BALL STUDS

ø5.4mm



HUDY TITANIUM 4.9mm BALL STUDS

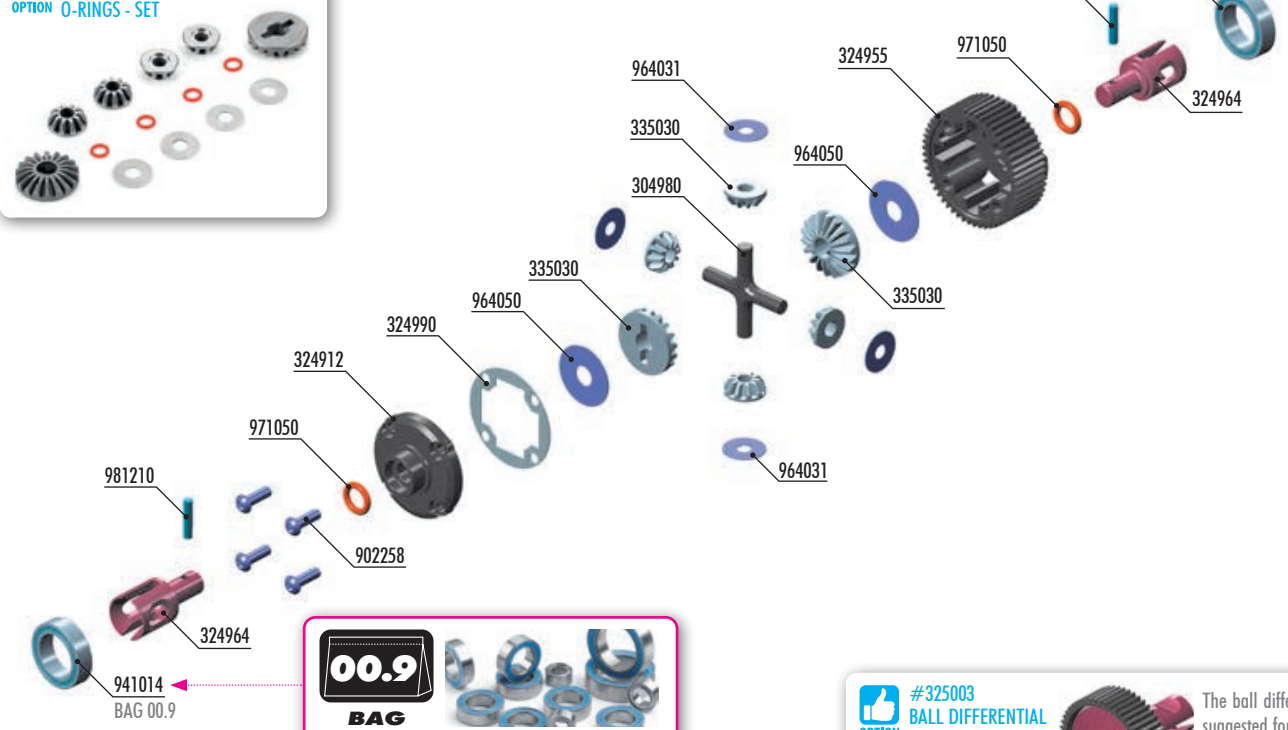
ø4.9mm



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



OPTION #335031
DIFF BEVEL & SATELLITE GEARS FOR O-RINGS - SET



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.

OPTION #325003
BALL DIFFERENTIAL LCG - NARROW - SET



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

OPTION

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



OPTION #304932
GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)



OPTION #335080
STEEL DIFFERENTIAL PIN HARDCOATED (2)

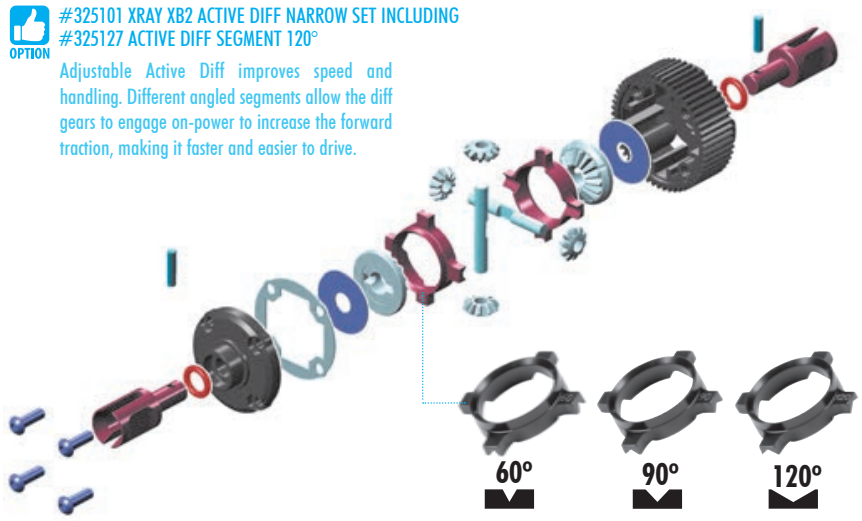


OPTION #335081
ALU DIFFERENTIAL PIN HARDCOATED (2)



OPTION #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

BAG 01

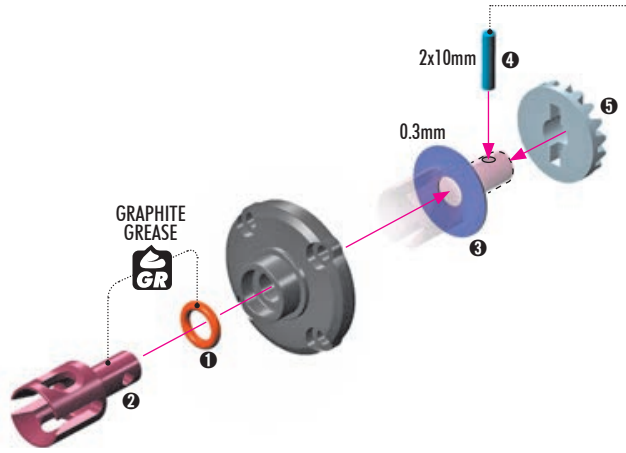
304980	COMPOSITE GEAR DIFF CROSS PIN
324903-L	GEAR DIFFERENTIAL - LCG - NARROW - SET
324912	COMPOSITE GEAR DIFFERENTIAL COVER - LCG - NARROW
324955	COMPOSITE GEAR DIFFERENTIAL CASE WITH PULLEY 53T - LCG - NARROW
324964	GEAR DIFF OUTDRIVE ADAPTER - LCG - FOR NARROW DIFF - HSS™ (2)
324990	DIFF GASKET (4)
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)

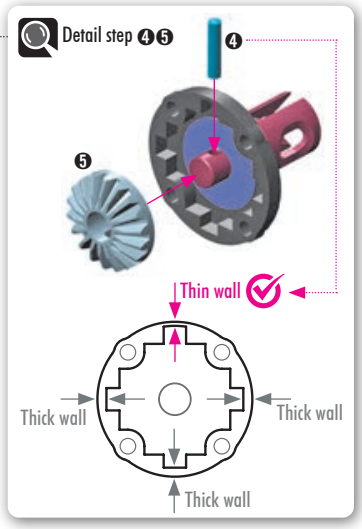
Numbers in parentheses ( ) refer to quantities when purchased separately.

1x 964050 S 5x15x0.3

1x 971050 O 5x1.5

1x 981210 P 2x10

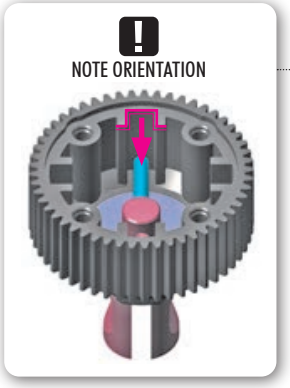


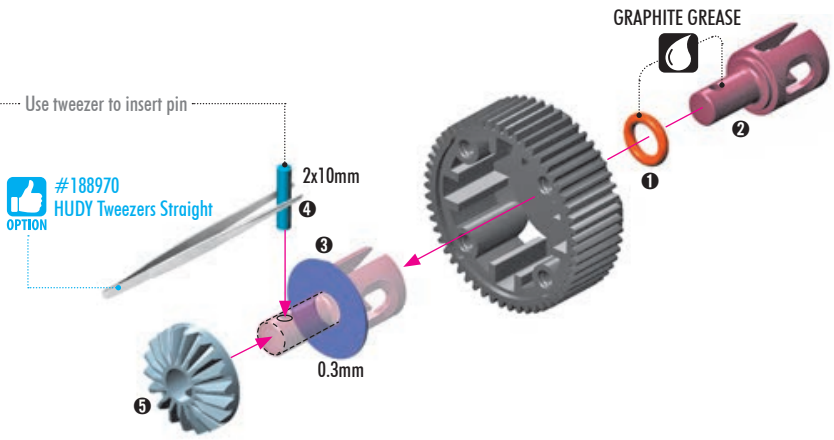


1x 964050 S 5x15x0.3

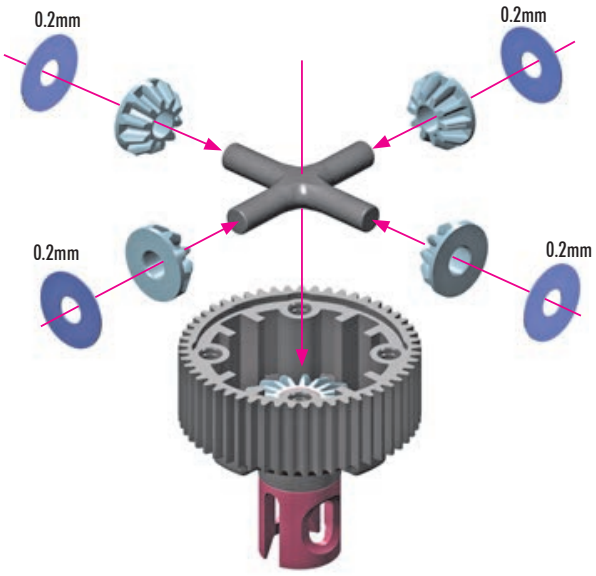
1x 971050 O 5x1.5

1x 981210 P 2x10





4x 964031 S 3.5x10x0.2



OPTION #335031
DIFF BEVEL & SATELLITE GEARS FOR O-RINGS - SET



OPTION #335080
STEEL DIFFERENTIAL PIN HARDCOATED (2)

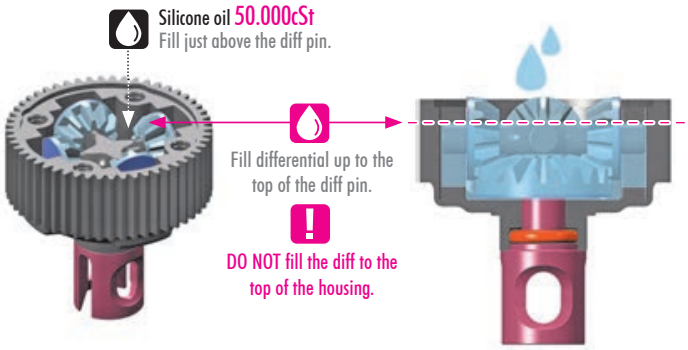


OPTION #335081
ALU DIFFERENTIAL PIN HARDCOATED (2)



USE PROPER AMOUNT OF OIL IN THE DIFF

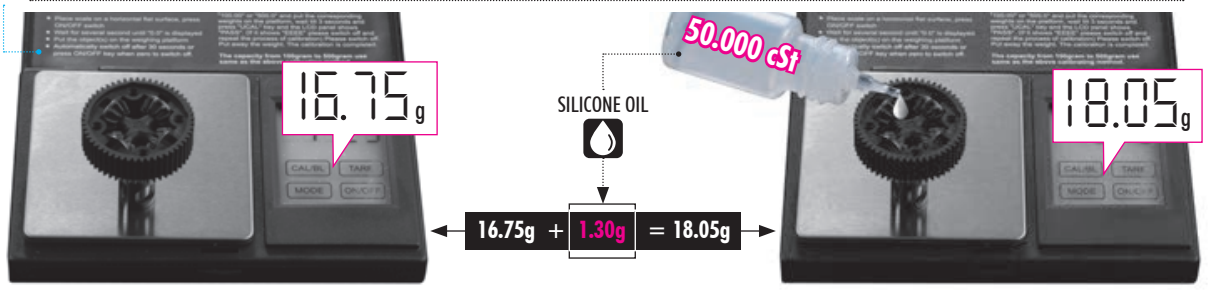
Use a digital scale to measure the exact amount of oil in the diff. Remember that during operation the diff gets hotter and the heat may allow the oil to expand. If there is too much oil inside it may interfere with the diff operation and damage the internal gears.



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

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

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



❶ Put the diff (without oil) on the scale and check the weight (approximately 16.75g)

❷ Slowly pour oil into the diff and watch the weight. Add 1.30g of oil into the diff. The approximate weight of the diff including oil is 18.05g.

TIP TIPS FOR GEAR DIFFERENTIAL

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

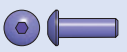
Softer oil increases rear traction, harder oil increases on-power forward traction.

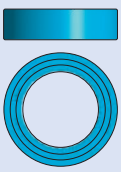


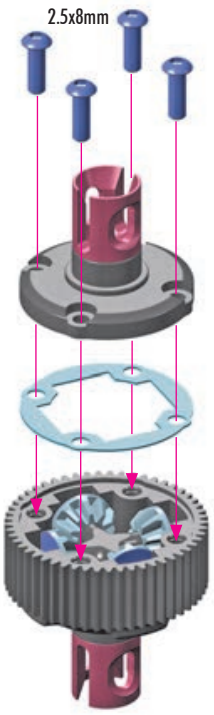
OPTION HUDY

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

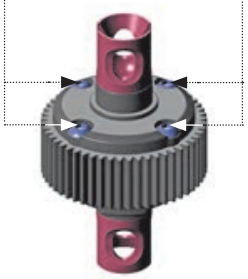
#106540	40.000cSt - 50ml	OPTION
#106550	50.000cSt - 50ml	INCLUDED
#106560	60.000cSt - 50ml	OPTION
#106580	80.000cSt - 50ml	OPTION
#106610	100.000cSt - 50ml	OPTION
#106615	150.000cSt - 50ml	OPTION


4x 902258
SH M2.5x8

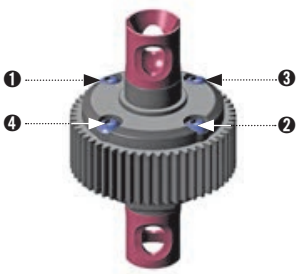

2x 941014
BB 10x15x4



Install the screws equally but DO NOT tighten them completely.

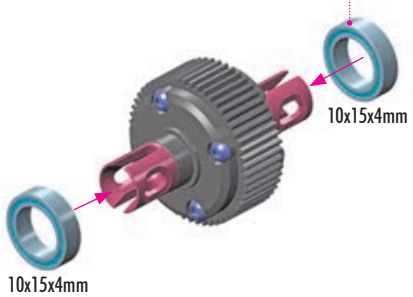


Finish tightening in this order.





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.



OPTION #930220
CERAMIC BALL 2.4MM (12)



Premium-quality ceramic balls made from extra-hard Si_3N_4 silicon nitride ceramic significantly improve differential lifespan while reducing friction.

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

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

OPTION #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

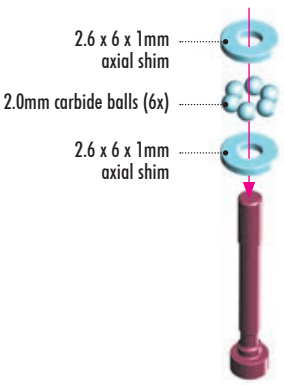
Adjustable Active Diff improves speed and handling. Different angled segments allow the diff gears to engage on-power to increase the forward traction, making it faster and easier to drive.

BAG 01

305092	BALL DIFFERENTIAL SPRING	325072	ALU BALL DIFFERENTIAL NUT
325003	BALL ADJUSTABLE DIFFERENTIAL - LCG - SET - HUDY SPRING STEEL™	365080	DIFF WASHER 17 x 24.5 x 1 (2)
325013	BALL DIFFERENTIAL SHORT OUTPUT SHAFT - LCG - HUDY SPRING STEEL™	930120	CARBIDE BALL 2.4mm FOR BALL DIFF (12)
325023	BALL DIFFERENTIAL LONG OUTPUT SHAFT - LCG - HUDY SPRING STEEL™	930126	CARBIDE BALL-BEARING AXIAL 2.6x6x1
325053	COMPOSITE BALL DIFFERENTIAL GEAR 53T	930508	BALL-BEARING 5x8x2.5 STEEL SEALED - OIL (2)
325061	SCREW FOR BALL DIFF ADJUSTMENT - SPRING STEEL™	941014	BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)

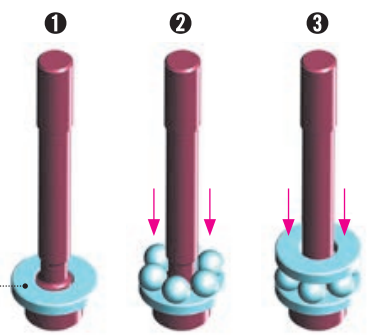
Numbers in parentheses ( ) refer to quantities when purchased separately.

1x 930126
BA 2.6x6x1





OPTION
Use HUDY tweezers
#188970 or #188971



GRAPHITE GREASE
(HUDY #106210)



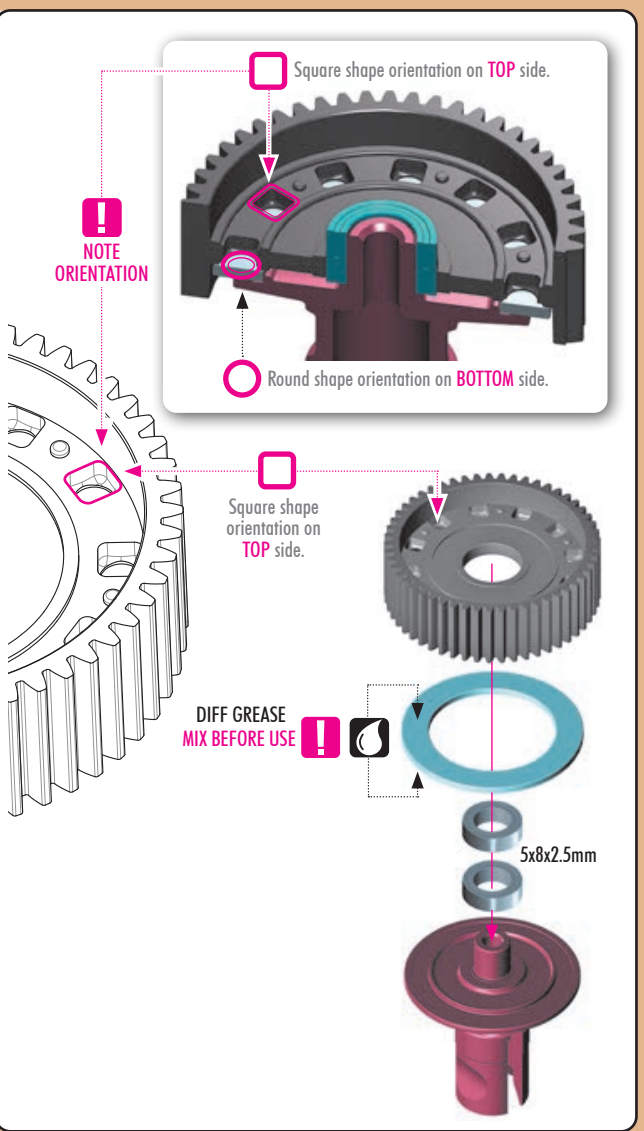


ASSEMBLED VIEW

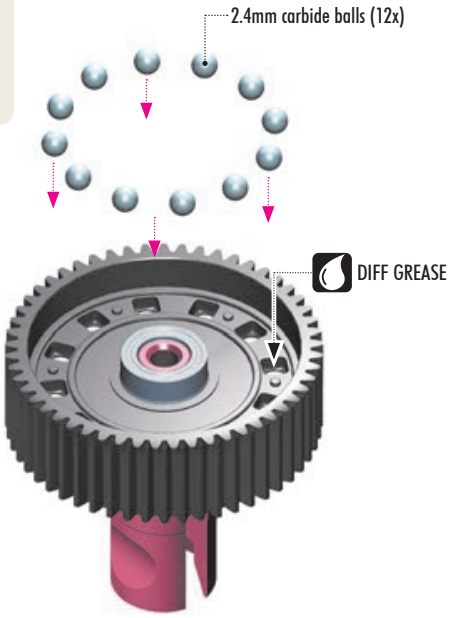
CUTAWAY VIEW



2x 930508
BB 5x8x2.5



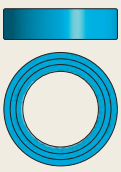
12x 930120
B 2.4



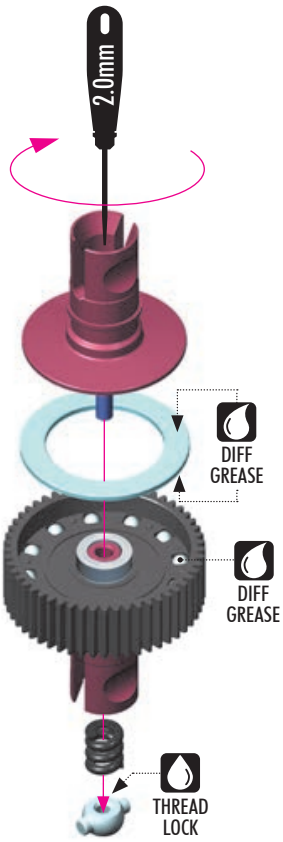
OPTION
#930220
CERAMIC BALL 2.4MM (12)

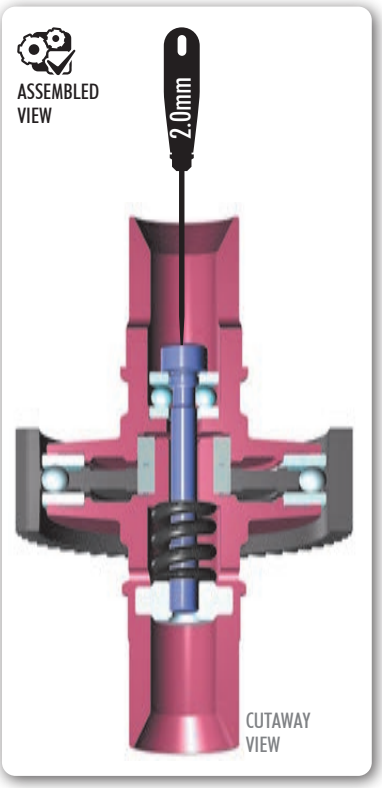


Premium-quality ceramic balls made from extra-hard Si_3N_4 silicon nitride ceramic significantly improve differential lifespan while reducing friction.



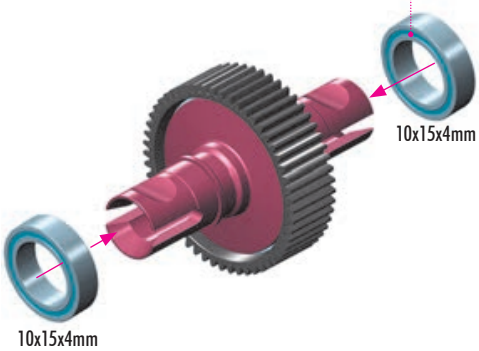
2x 941014
BB 10x15x4





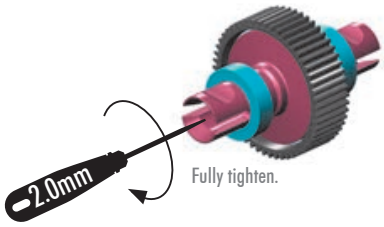


The bearings of each type are packaged separately; there is a **BAG 00.9** with pre-greased ball-bearings and a separate bag with pre-oiled ball-bearings.

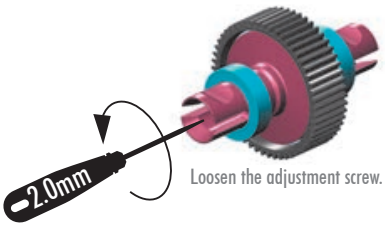


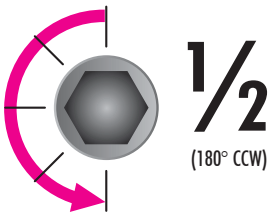
BEFORE RACING, follow these steps

❶



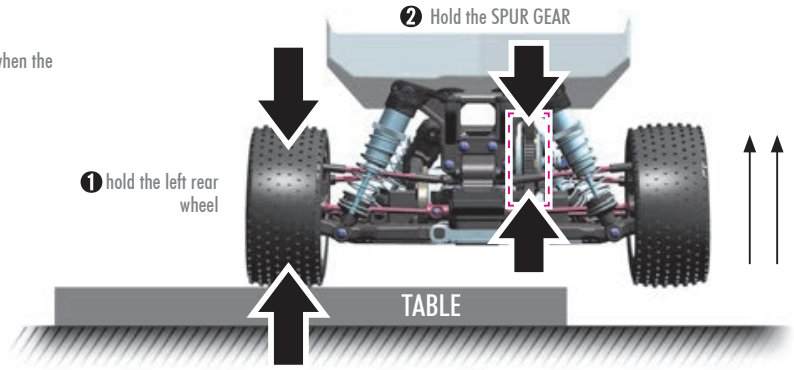
❷ Loosen the adjustment screw 1/2 turn (180° CCW).



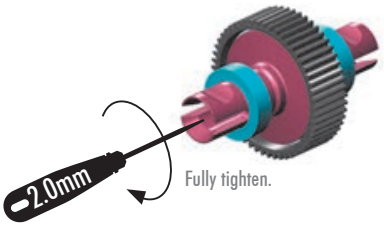


❸

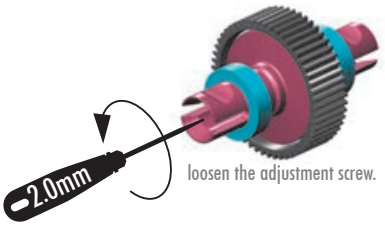
Continue with this step when the car is fully assembled.

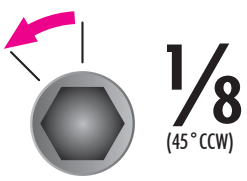


❹



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





INITIAL SETTING



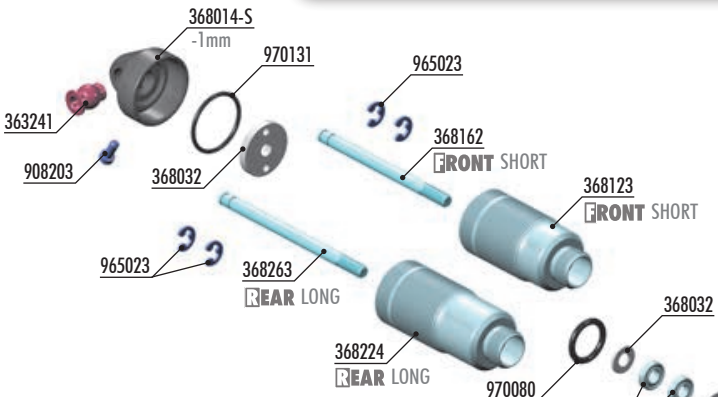
Ball differential is now ready.

OPTION	FRONT SPRINGS			
	#368381	L=42.5mm	1 DOT	OPTION
	#368382	L=42.5mm	2 DOTS	OPTION
	#368383	L=42.5mm	3 DOTS	OPTION
	#368384	L=42.5mm	4 DOTS	INCLUDED
	#368385	L=42.5mm	5 DOTS	OPTION

OPTION	REAR SPRINGS			
	#368481	L=57.5mm	1 DOT	OPTION
	#368482	L=57.5mm	2 DOTS	OPTION
	#368483	L=57.5mm	3 DOTS	OPTION
	#368484	L=57.5mm	4 DOTS	INCLUDED
	#368485	L=57.5mm	5 DOTS	OPTION

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







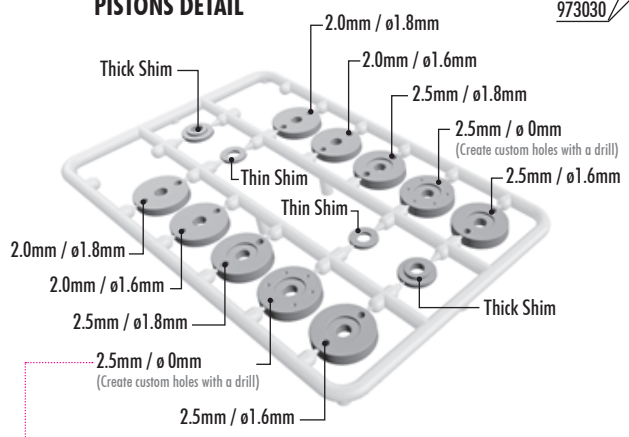
INITIAL SETTING
Ball joint
0mm
FRONT

368384 - 4 Dots
FRONT SPRINGS

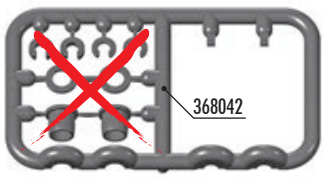
368484 - 4 Dots
REAR SPRINGS



PISTONS DETAIL



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

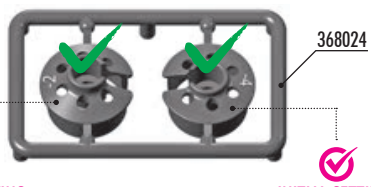


! Do NOT use C- shims & shock cap bushings for initial setting.

BAG 02

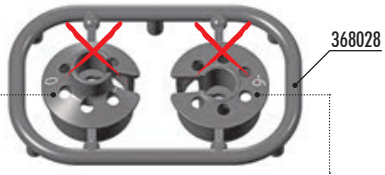
363241	BALL UNIVERSAL 5.75mm WITH BACKSTOP (2)
363242	PIVOT BALL 5.8mm ECCENTRIC (2)
368014-S	COMP. SHOCK CAP, SPRING COLLAR & BALL JOINT - BIG BORE (2)
368032	SHOCK PISTONS - COMPLETE SET - DELRIN - BIG BORE
368042	COMPOSITE SHOCK BUSHING & SHIM (2+2)
368049	ALU SHOCK ADJUSTABLE NUT - BIG BORE (2)
368102-S	FRONT SHOCK ABSORBERS 30mm - BIG BORE - SET (2)
368123	ALU FRONT SHOCK BODY 30mm - BIG BORE (2)
368140	ALU LOWER SHOCK BODY CAP (2)
368162	FRONT HARDENED SHOCK SHAFT 40mm (2)
368202-S	REAR SHOCK ABSORBERS 35.5mm - BIG BORE - SET (2)
368224	ALU REAR SHOCK BODY 35.5mm - BIG BORE (2)
368263	REAR HARDENED SHOCK SHAFT 45mm (2)
908203	HEX SCREW SOCKET HEAD CAP M2x3 (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)

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



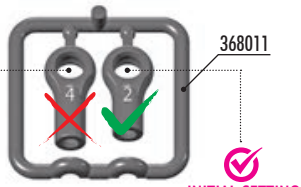
INITIAL SETTING
Retaining collar
-2mm
FRONT

INITIAL SETTING
Retaining collar
-4mm
REAR



DO NOT use
Retaining collar
for initial setting
0mm

DO NOT use
Retaining collar
for initial setting
-6mm



DO NOT use
ball joint
for initial setting
+4mm

INITIAL SETTING
Ball joint
+2mm
REAR

BAG 02.1

XB2 SHOCK ASSEMBLY SET

368011	COMPOSITE SHOCK BALL JOINT +2mm & +4mm (2+2)
368024	COMPOSITE SPRING COLLAR -2mm & -4mm - BIG BORE (2+2)
368028	COMPOSITE SPRING COLLAR 0mm & -6mm - BIG BORE (2+2)
368384	FRONT CONICAL SPRING-SET L=42.5mm - 4 DOTS (2)
368484	REAR CONICAL SPRING-SET L=57.5mm - 4 DOTS (2)

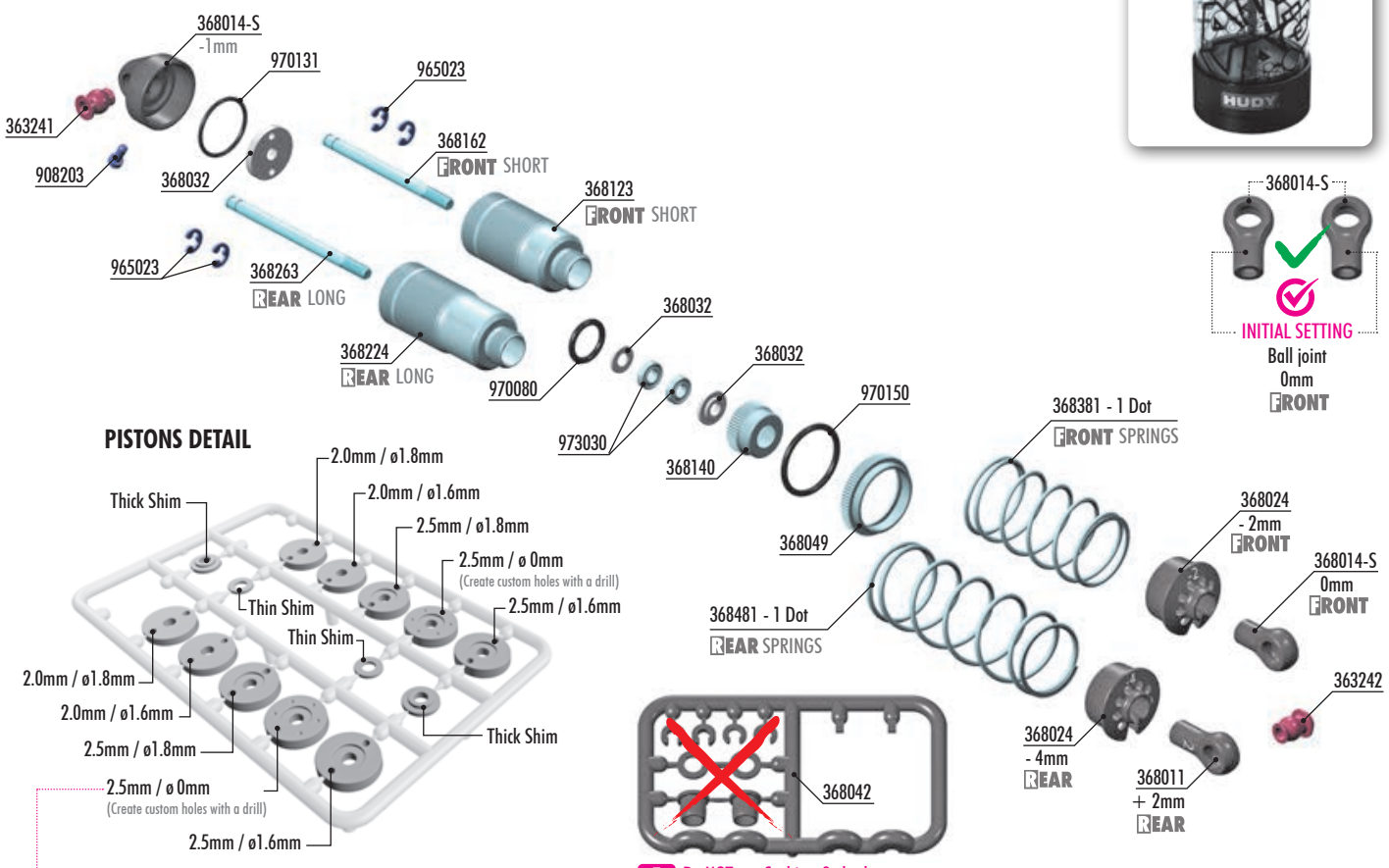
Numbers in parentheses ( ) refer to quantities when purchased separately.

OPTION	FRONT SPRINGS			
	#368381	L=42.5mm	1 DOT	INCLUDED
	#368382	L=42.5mm	2 DOTS	OPTION
	#368383	L=42.5mm	3 DOTS	OPTION
	#368384	L=42.5mm	4 DOTS	OPTION
	#368385	L=42.5mm	5 DOTS	OPTION

OPTION	REAR SPRINGS			
	#368481	L=57.5mm	1 DOT	INCLUDED
	#368482	L=57.5mm	2 DOTS	OPTION
	#368483	L=57.5mm	3 DOTS	OPTION
	#368484	L=57.5mm	4 DOTS	OPTION
	#368485	L=57.5mm	5 DOTS	OPTION

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





PISTONS DETAIL

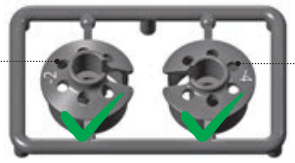
To use these custom pistons you HAVE TO drill custom holes by yourself.

Do NOT use C- shims & shock cap bushings for initial setting.

BAG 02

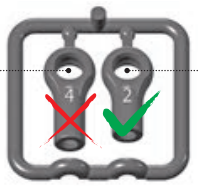
363241	BALL UNIVERSAL 5.75mm WITH BACKSTOP (2)	368202-S	REAR SHOCK ABSORBERS 35.5mm - BIG BORE - SET (2)
363242	PIVOT BALL 5.8mm ECCENTRIC (2)	368224	ALU REAR SHOCK BODY 35.5mm - BIG BORE (2)
368014-S	COMP. SHOCK CAP, SPRING COLLAR & BALL JOINT - BIG BORE (2)	368263	REAR HARDENED SHOCK SHAFT 45mm (2)
368032	SHOCK PISTONS - COMPLETE SET - DELRIN - BIG BORE		
368042	COMPOSITE SHOCK BUSHING & SHIM (2+2)	908203	HEX SCREW SOCKET HEAD CAP M2x3 (10)
368049	ALU SHOCK ADJUSTABLE NUT - BIG BORE (2)	965023	E-CLIP 2.3 (10)
368102-S	FRONT SHOCK ABSORBERS 30mm - BIG BORE - SET (2)	970080	O-RING 8x1 (10)
368123	ALU FRONT SHOCK BODY 30mm - BIG BORE (2)	970131	O-RING 13 x 1.0 (10)
368140	ALU LOWER SHOCK BODY CAP (2)	970150	O-RING 15 x 1.5 (10)
368162	FRONT HARDENED SHOCK SHAFT 40mm (2)	973030	SILICONE X-RING PRE-OILED 3x2 (8)

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



INITIAL SETTING
Retaining collar
-2mm
FRONT

INITIAL SETTING
Retaining collar
-4mm
REAR



DO NOT use ball joint for initial setting +4mm

INITIAL SETTING
Ball joint
+2mm
REAR

BAG 02.1

XB2 SHOCK ASSEMBLY SET

368011	COMPOSITE SHOCK BALL JOINT +2mm & +4mm (2+2)	368381	FRONT CONICAL SPRING-SET L=42.5mm - 1 DOT (2)
368024	COMPOSITE SPRING COLLAR -2MM & -4MM - BIG BORE (2+2)	368481	REAR CONICAL SPRING-SET L=57.5mm - 1 DOT (2)

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

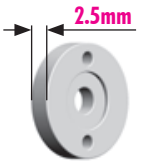
CARPET DIRT

8x 965023 C 2.3

PISTONS ALTERNATIVE 1

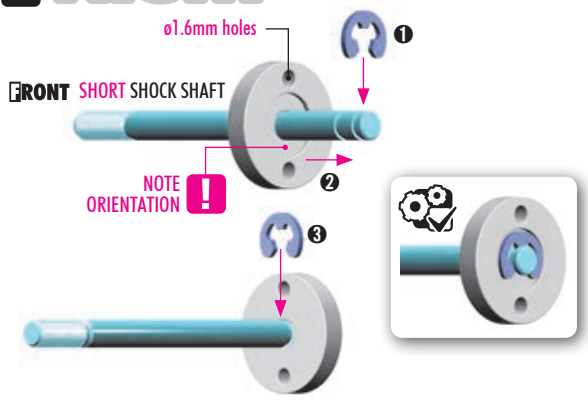
We recommend for these types of surfaces and traction levels:

- CARPET

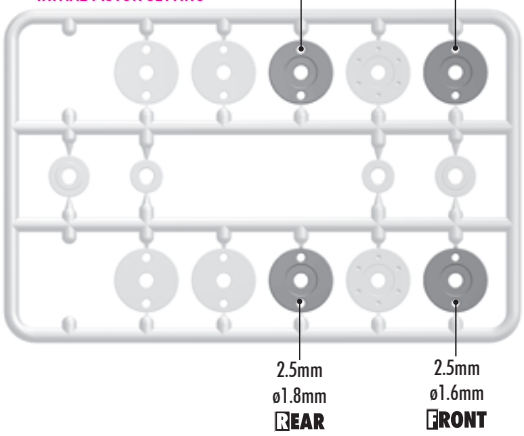


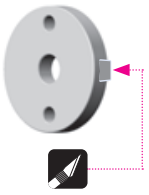
CARPET INITIAL PISTON SETTING

2x FRONT



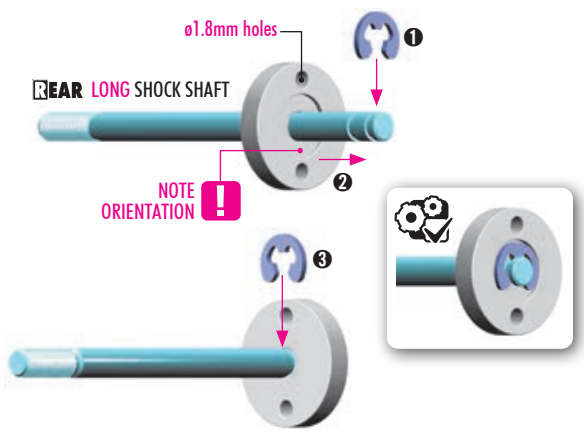
INITIAL PISTON SETTING





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

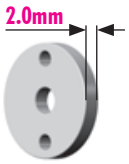
2x REAR



PISTONS ALTERNATIVE 2

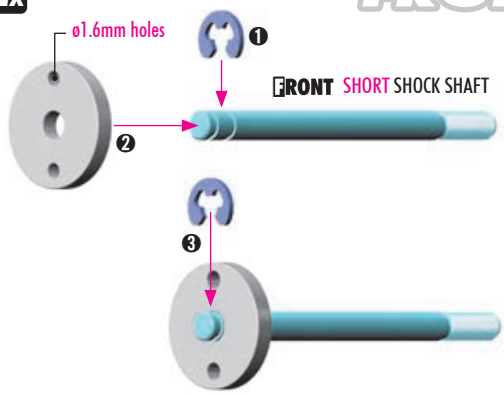
We recommend for these types of surfaces and traction levels:

- ASTRO
- DIRT

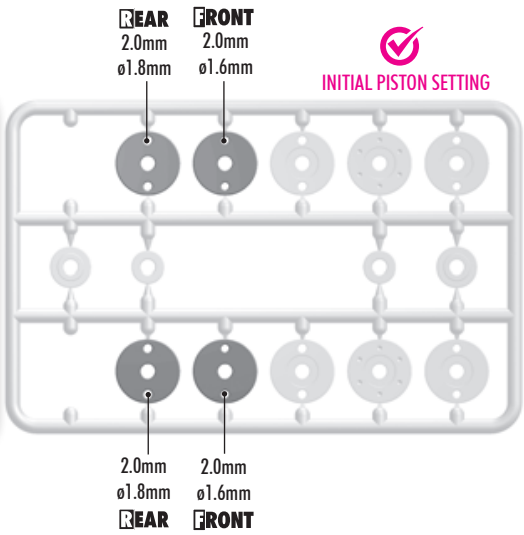


DIRT INITIAL PISTON SETTING

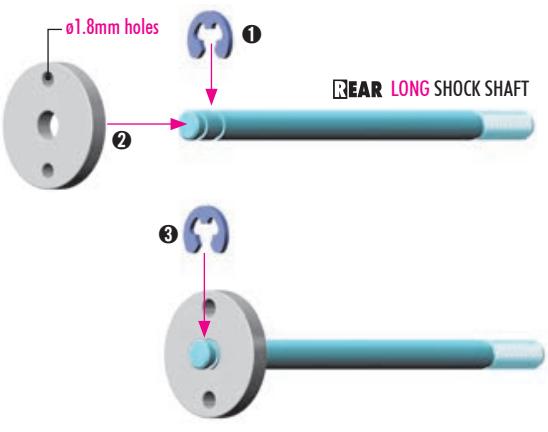
2x FRONT



INITIAL PISTON SETTING



2x REAR



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



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





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.

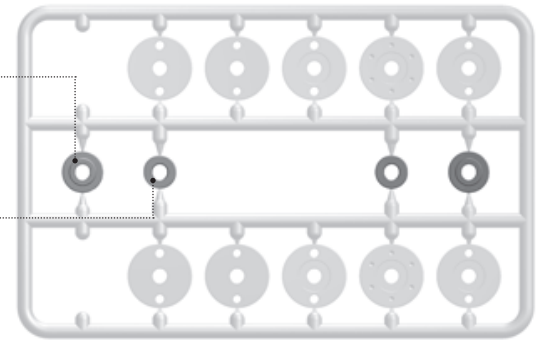
SET-UP BOOK
SHOCK DAMPING
SHOCK PISTONS

4x 970080 O 8x1

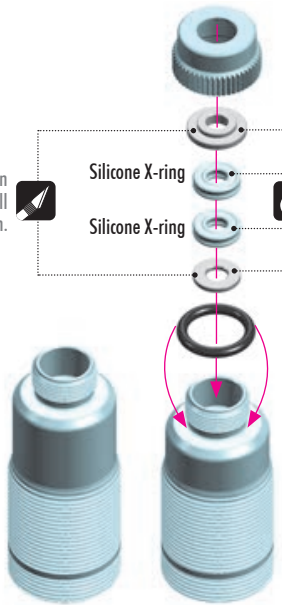
8x 973030 X 3x2

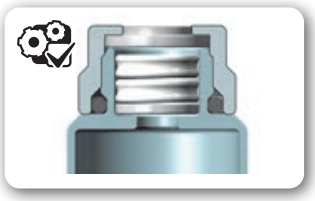
2x FRONT
2x REAR

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



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

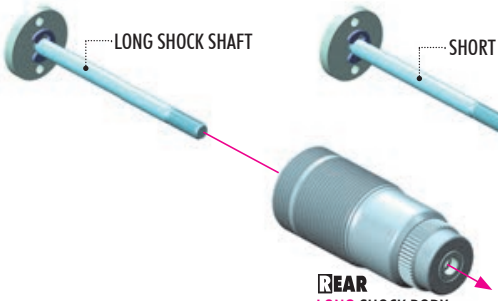




REAR
LONG SHOCK BODY

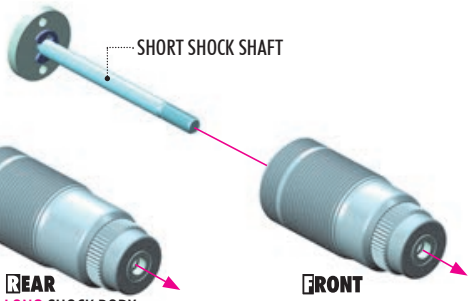
FRONT
SHORT SHOCK BODY

2x



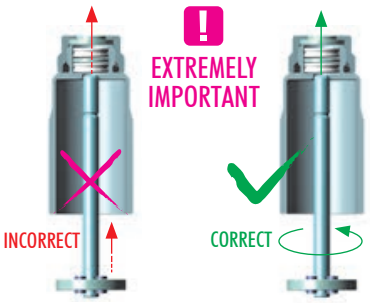
REAR
LONG SHOCK BODY

2x



FRONT
SHORT SHOCK BODY

EXTREMELY IMPORTANT

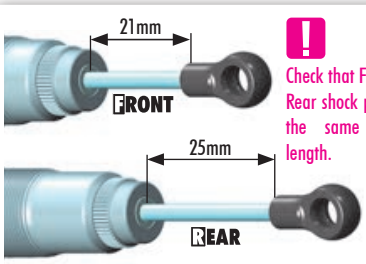


DO NOT PUSH the shock rod straight through the lower shock body assembly; X-ring damage may result.

TWIST THE SHOCK ROD through the lower shock body assembly.

Install the pivot balls with #183011 HUDY Multi Tool



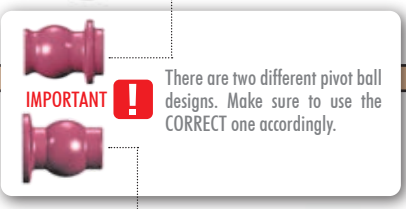


Check that Front and Rear shock pairs are the same overall length.

REAR 2x +2mm

IMPORTANT
ECCENTRIC PIVOT BALL IN LOWER Ball Joint

FRONT 2x 0mm



IMPORTANT

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

TIP



Install with HUDY Multi Tool.

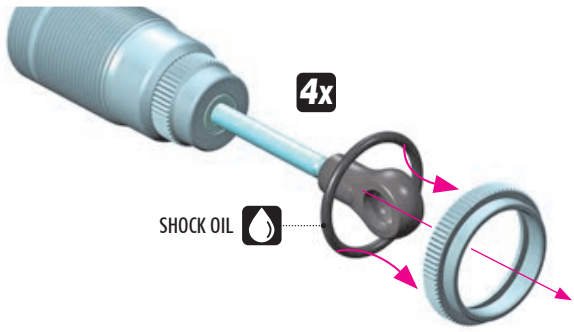


4x

XRAY



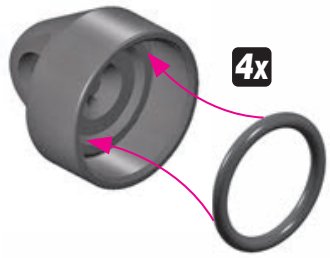
4x 970150
O 15x1.5



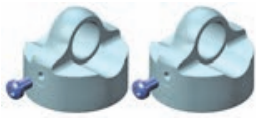




4x 970131
O 13x1



OPTION #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 908203
SCH M2x3

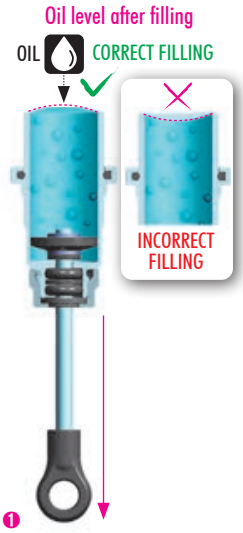
FRONT SHORT
Oil 300cSt
CARPET
DIRT
INITIAL SETTING

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%.



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



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



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



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



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



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



❼ 6x push the shaft up and down.



❽ Untighten the screw.

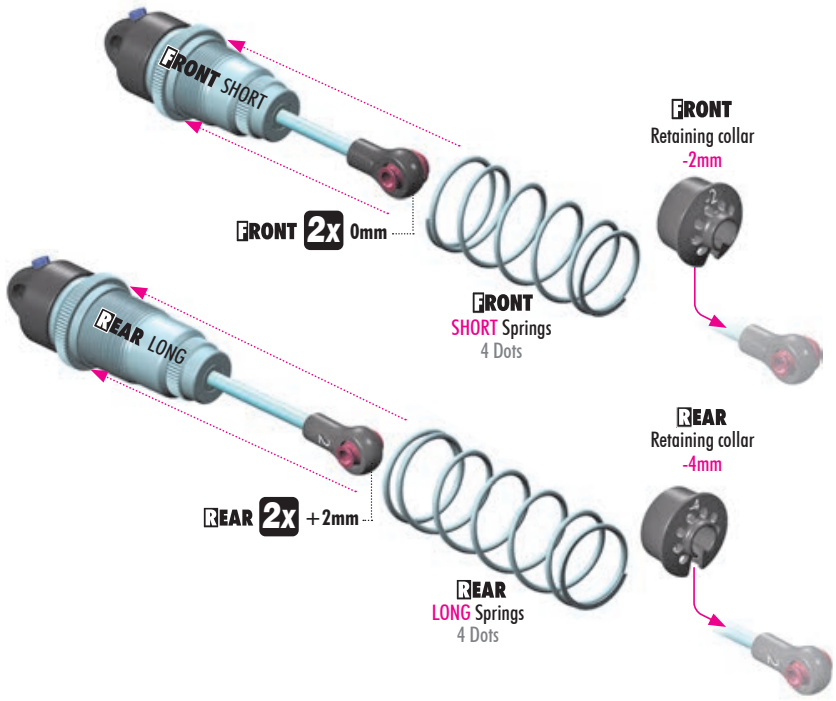


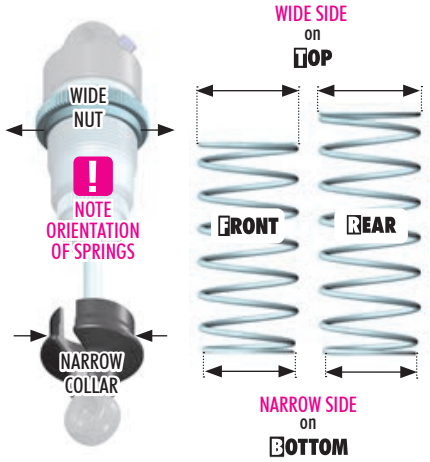
❾ Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



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

CARPET 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.

OPTION #368021
ALU SHOCK SPRING RET. COLLAR (4)



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



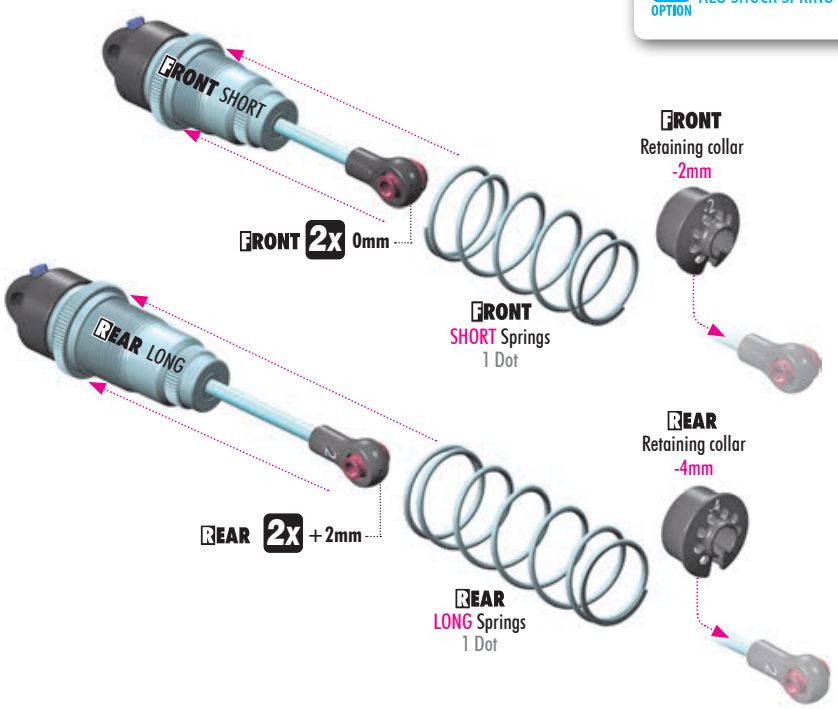
OPTION #368023
ALU SHOCK SPRING RET. COLLAR -4mm (4)

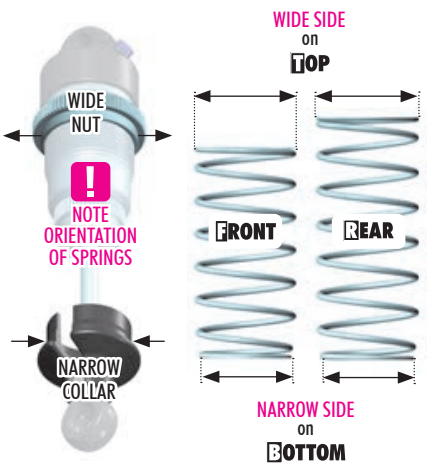


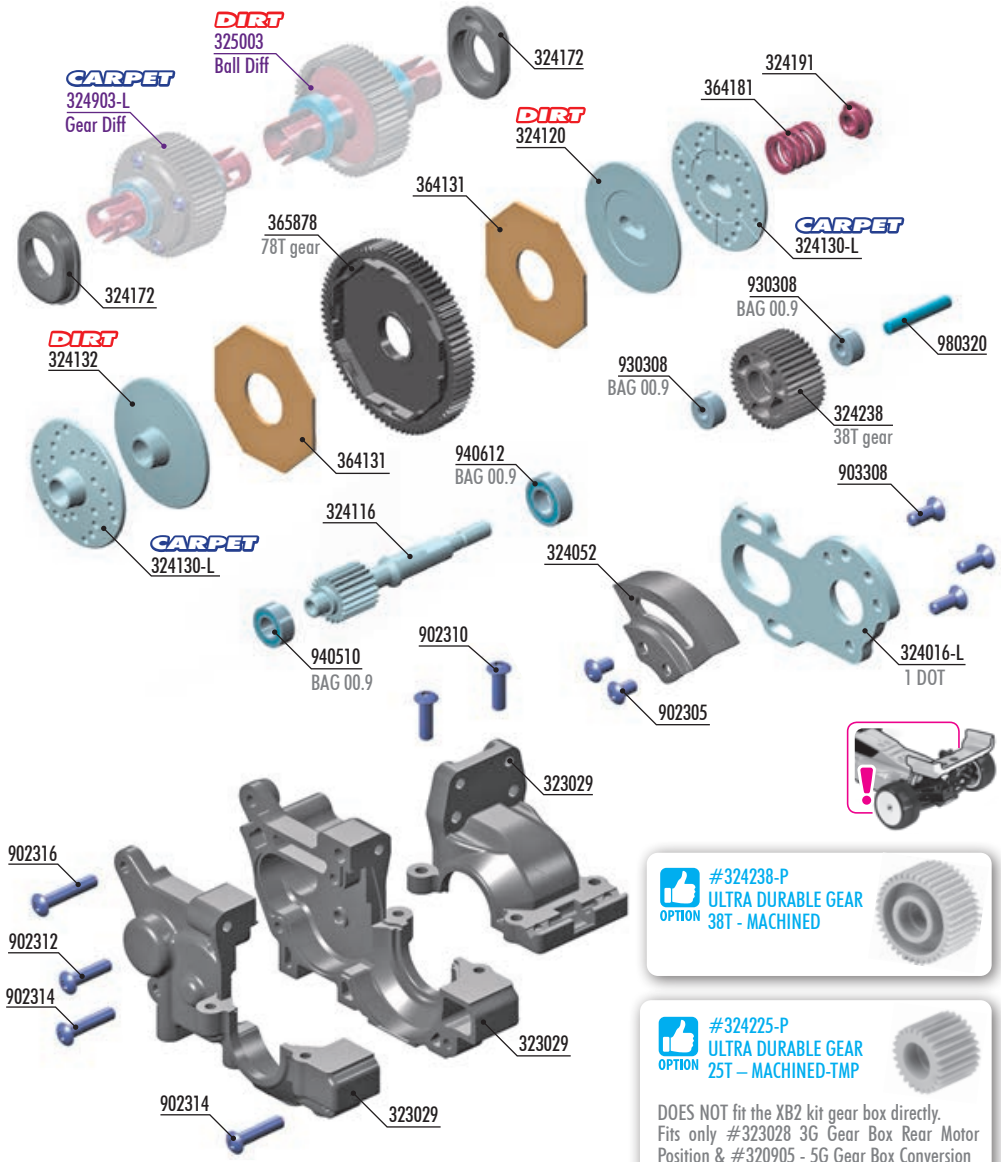
OPTION #368027
ALU SHOCK SPRING RET. COLLAR -6mm (4)



DIRT INITIAL PARTS CONFIGURATION







OPTION #324017
CARBON MOTOR PLATE - LCG - 3.0MM



OPTION #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

OPTION #324103
SLIPPER ELIMINATOR - SET

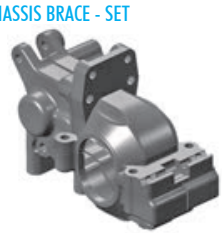


72T INCLUDED

OPTION #325869
SLIPPER ELIMINATOR SPUR GEAR 69T / 48



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

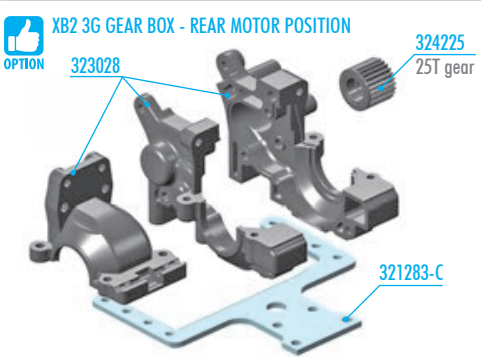


OPTION #324238-P
ULTRA DURABLE GEAR 38T - MACHINED

OPTION #324225-P
ULTRA DURABLE GEAR 25T – MACHINED-TMP

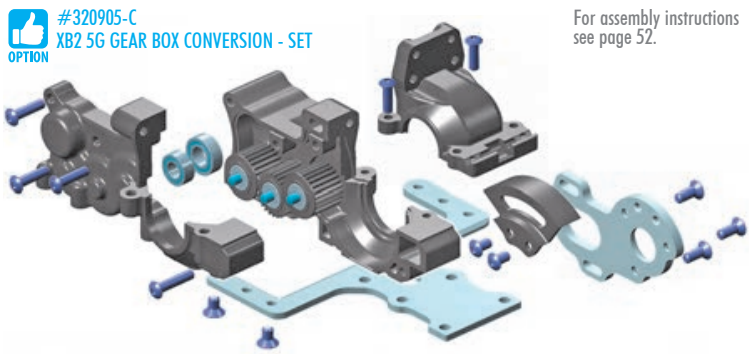
DOES NOT fit the XB2 kit gear box directly. Fits only #323028 3G Gear Box Rear Motor Position & #320905 - 5G Gear Box Conversion

OPTION XB2 3G GEAR BOX - REAR MOTOR POSITION



OPTION #320905-C
XB2 5G GEAR BOX CONVERSION - SET

For assembly instructions see page 52.



BAG 03

323029 COMPOSITE 3G GEAR BOX FOR CHASSIS BRACE - SET
324016-L ALU MOTOR PLATE FOR 3G GEAR BOX - 1-DOT - SWISS 7075 T6
324052 COMPOSITE GEAR COVER - LCG
324116 ALU 2-PAD TOP SHAFT 20T - LCG - ULTRA-LIGHTWEIGHT - SHORT
324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB (2)
324191 STEEL SLIPPER CLUTCH NUT - HUDY SPRING STEEL™
324238 COMPOSITE GEAR 38T - LCG - GRAPHITE
364131 SLIPPER CLUTCH PAD SLS - SOFT (3)
364181 SLIPPER CLUTCH SPRING C=45 - 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)
980320 PIN 3x20 (10)

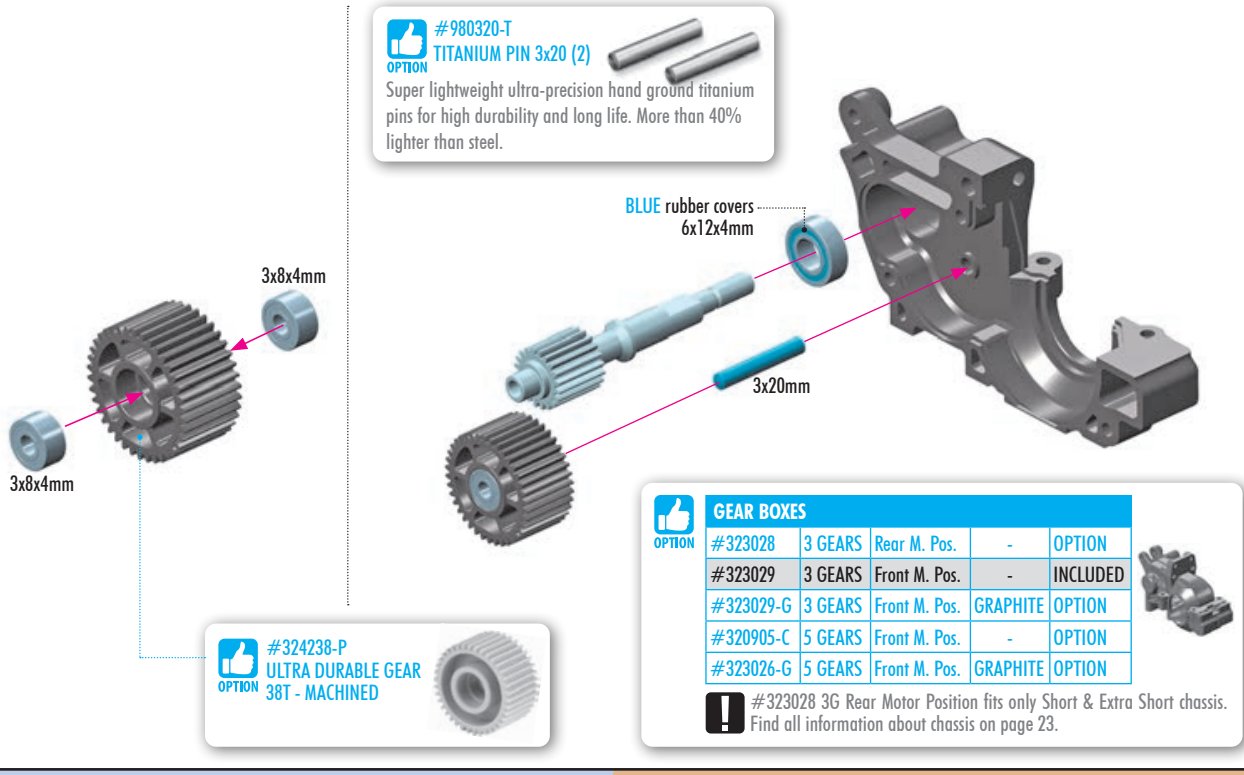
CARPET
324903-L GEAR DIFFERENTIAL - LCG - NARROW - SET
324130-L ALU 2-PAD SLIPPER CLUTCH PLATES - VENTILATED - SET

DIRT
325003 BALL ADJUSTABLE DIFFERENTIAL - LCG - SET - HUDY SPRING STEEL™
324120 ALU 3-PAD SLIPPER CLUTCH PLATE - SWISS 7075 T6 - HARD COATED
324132 ALU 2-PAD SLIPPER CLUTCH PLATE 31MM WITH ADAPTER - LCG

2x 930308 BB 3x8x4

1x 940612 BB 6x12x4

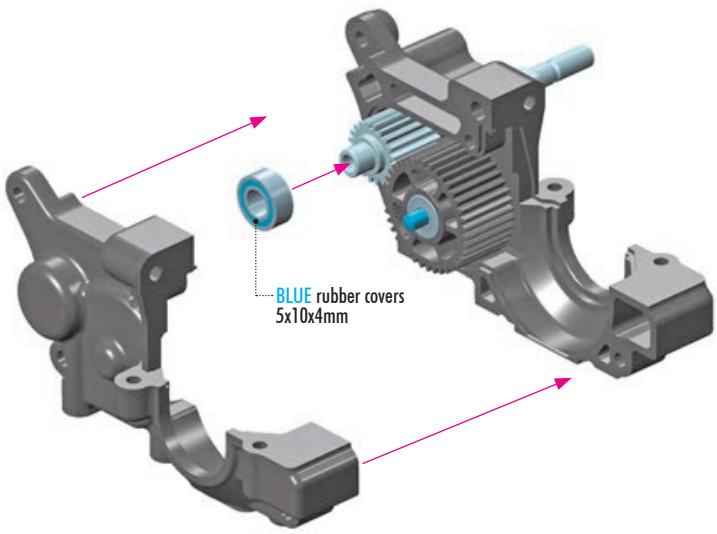
1x 980320 P 3x20



OPTION	GEAR BOXES				
	#323028	3 GEARS	Rear M. Pos.	-	OPTION
	#323029	3 GEARS	Front M. Pos.	-	INCLUDED
	#323029-G	3 GEARS	Front M. Pos.	GRAPHITE	OPTION
	#320905-C	5 GEARS	Front M. Pos.	-	OPTION
	#323026-G	5 GEARS	Front M. Pos.	GRAPHITE	OPTION

#323028 3G Rear Motor Position fits only Short & Extra Short chassis. Find all information about chassis on page 23.

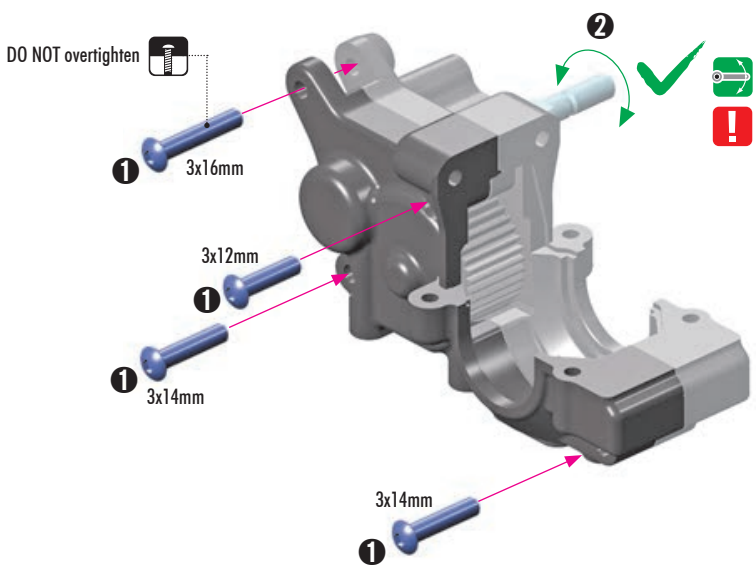
1x 940510 BB 5x10x4



902312 SH M3x12 1x

902314 SH M3x14 2x

1x 902316 SH M3x16



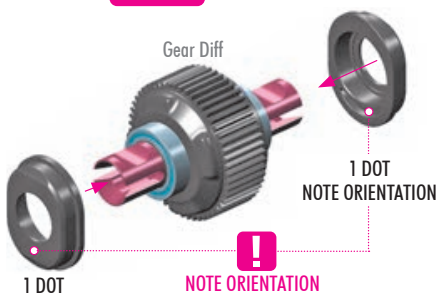
AFTER ASSEMBLY, check for free rotation of all drivetrain parts.

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

DIFFERENTIAL HEIGHT ADJUSTMENT

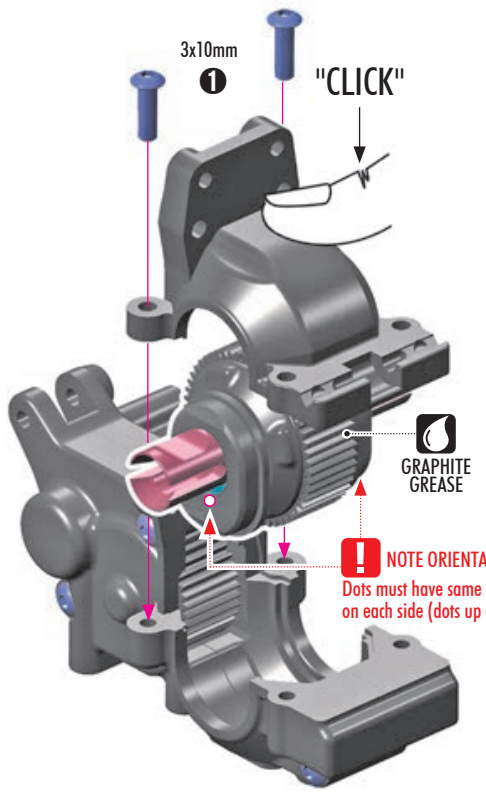
CARPET INITIAL PARTS CONFIGURATION

HIGHEST	HIGHER	MIDDLE	1 DOT	2 DOTS	3 DOTS
3 DOTS	2 DOTS	1 DOT	MIDDLE	LOWER	LOWEST



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

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

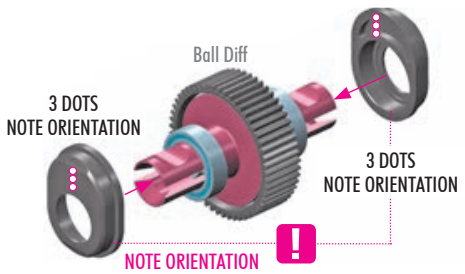


2x 902310 SH M3x10

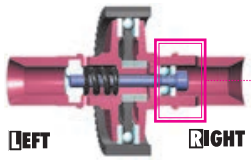
GEAR RATIO
Internal Gear Ratio
2.65

DIRT INITIAL PARTS CONFIGURATION

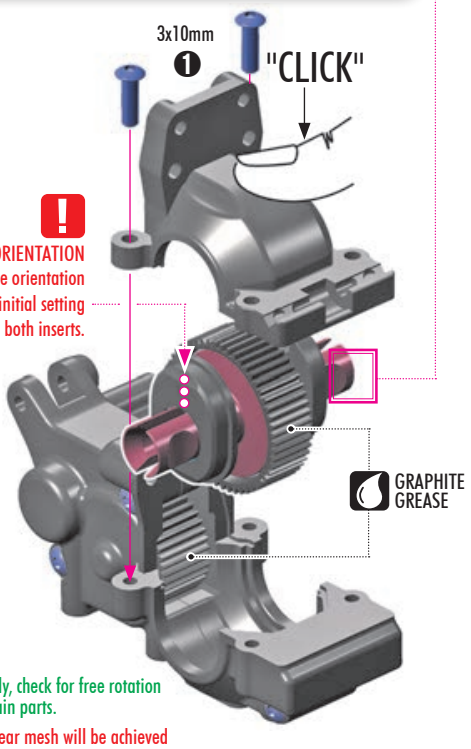
HIGHEST	HIGHER	MIDDLE	1 DOT	2 DOTS	3 DOTS
3 DOTS	2 DOTS	1 DOT	MIDDLE	LOWER	LOWEST



NOTE DIFF ORIENTATION



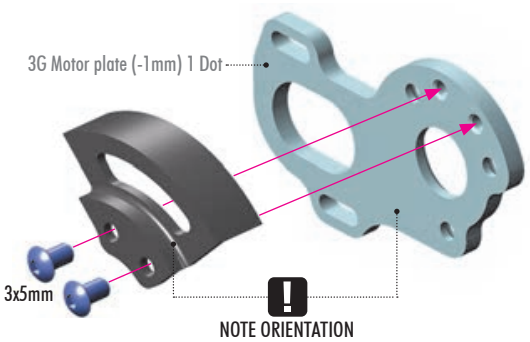
Ball differential must always be oriented with the screw on the right side. If the ball differential is oriented with the screw on the left side, the ball diff will become loose when the car is running.



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

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

2x 902305 SH M3x5

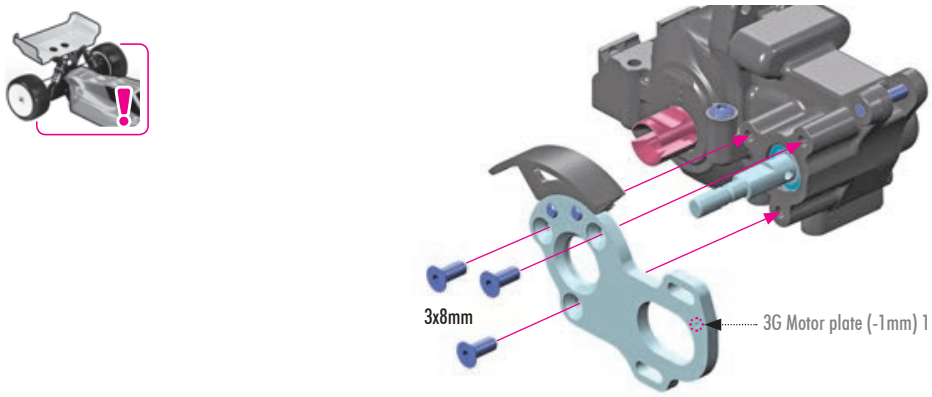


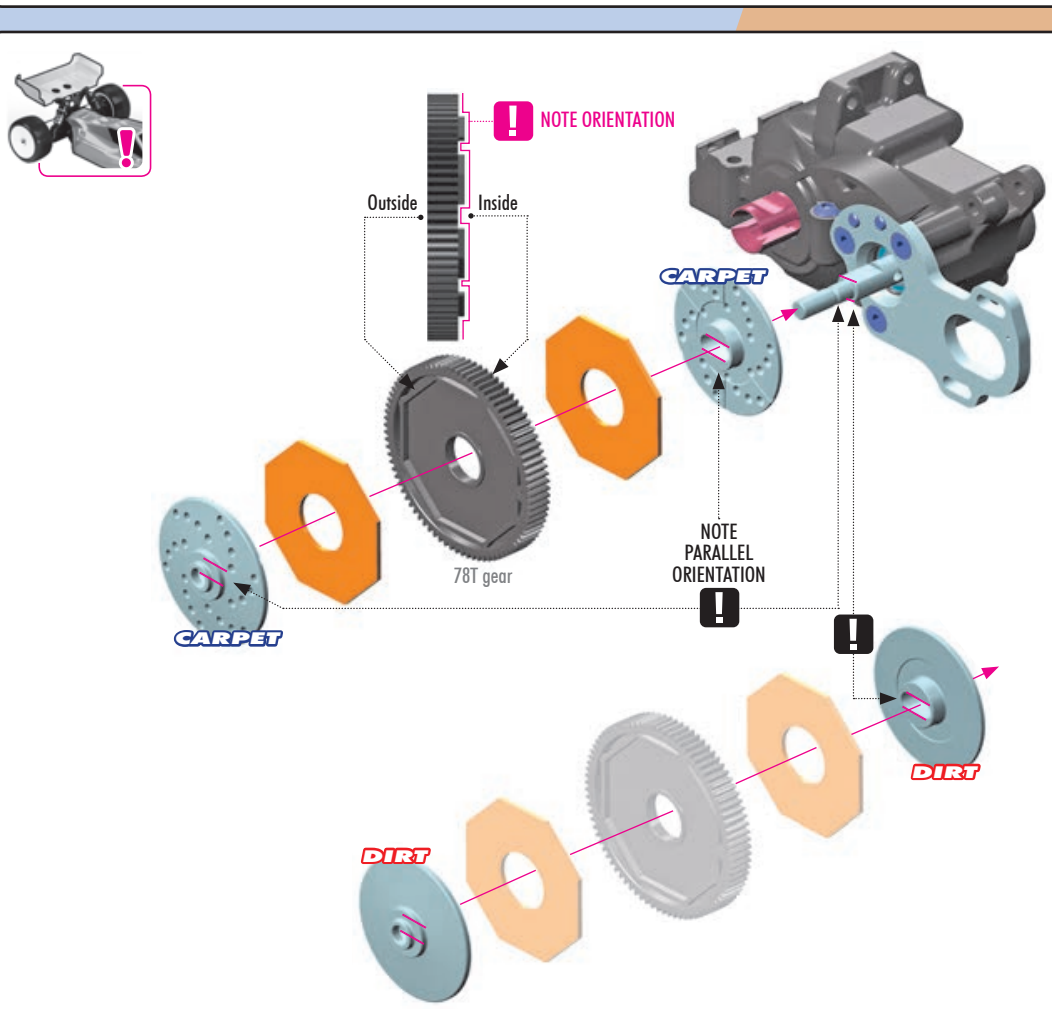
OPTION #324017
CARBON MOTOR PLATE LCG

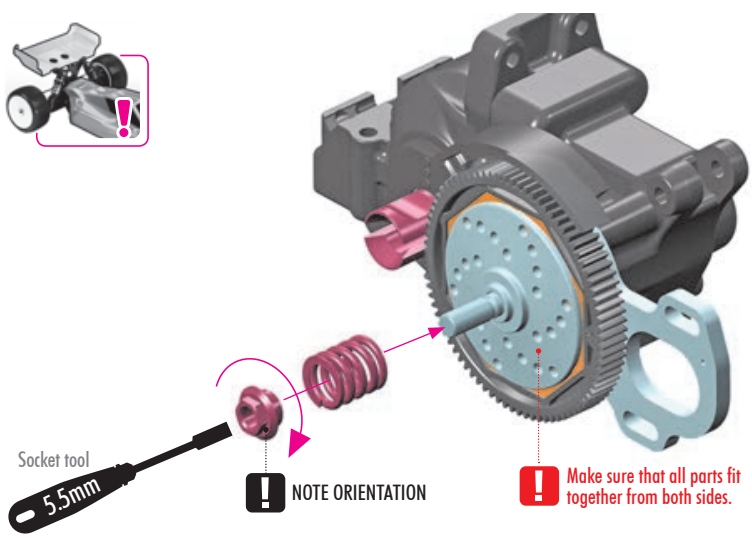
Lightweight carbon motor plate helps to reduce CG and absorbs vibrations from the motor.

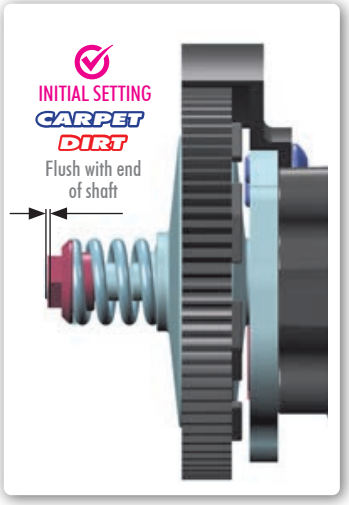


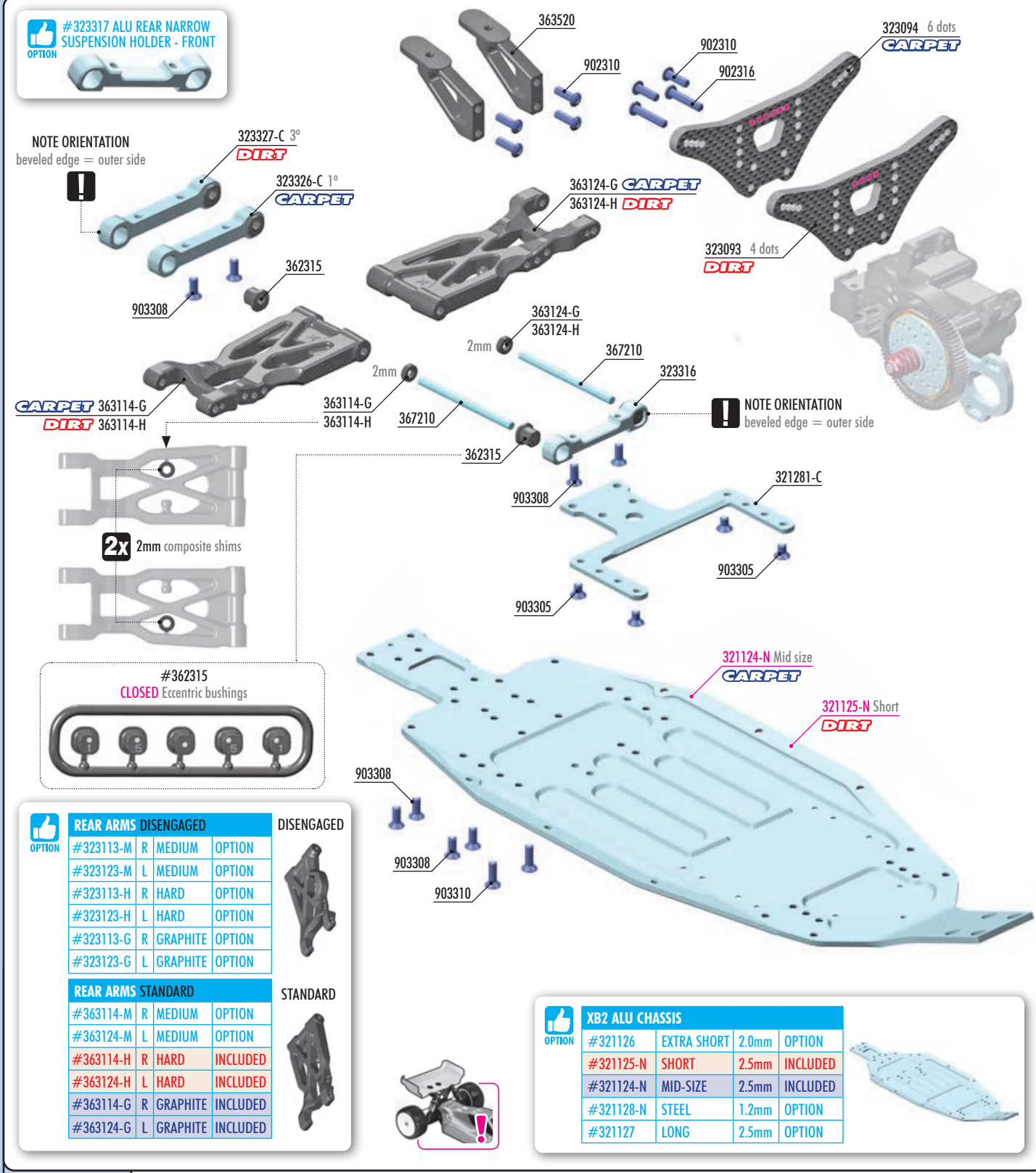
3x 903308 SFH M3x8











OPTION

REAR ARMS DISENGAGED			
#323113-M	R	MEDIUM	OPTION
#323123-M	L	MEDIUM	OPTION
#323113-H	R	HARD	OPTION
#323123-H	L	HARD	OPTION
#323113-G	R	GRAPHITE	OPTION
#323123-G	L	GRAPHITE	OPTION

DISENGAGED

REAR ARMS STANDARD			
#363114-M	R	MEDIUM	OPTION
#363124-M	L	MEDIUM	OPTION
#363114-H	R	HARD	INCLUDED
#363124-H	L	HARD	INCLUDED
#363114-G	R	GRAPHITE	INCLUDED
#363124-G	L	GRAPHITE	INCLUDED

STANDARD

OPTION

XB2 ALU CHASSIS			
#321126	EXTRA SHORT	2.0mm	OPTION
#321125-N	SHORT	2.5mm	INCLUDED
#321124-N	MID-SIZE	2.5mm	INCLUDED
#321128-N	STEEL	1.2mm	OPTION
#321127	LONG	2.5mm	OPTION

BAG 04

321281-C	ALU CHASSIS BRACE FOR GEAR BOX BLOCK - 3 GEAR
323316	ALU REAR LOWER SUSPENSION HOLDER FOR CHASSIS BRACE - FRONT
362315	ECCENTRIC BUSHING SET - CLOSED (2)
363520	REAR WING POST (2)
367210	REAR SUSPENSION PIVOT PIN (2)
902310	HEX SCREW SH M3x10 (10)
902316	HEX SCREW SH M3x16 (10)
903305	HEX SCREW SFH M3x5 (10)
903308	HEX SCREW SFH M3x8 (10)
903310	HEX SCREW SFH M3x10 (10)

CARPET

321124-N	XB2 ALU CHASSIS 1-PIECE - 2.5mm - MID-SIZE - SWISS 7075 T6
363114-G	COMPOSITE SUSP. ARM REAR LOWER RIGHT - 3-HOLE - GRAPHITE
363124-G	COMPOSITE SUSP. ARM REAR LOWER LEFT - 3-HOLE - GRAPHITE
323326-C	ALU REAR LOWER SUSPENSION HOLDER 1° - REAR
323094	CARBON SHOCK TOWER - 6-DOTS - REAR

DIRT

321125-N	XB2 ALU CHASSIS 1-PIECE - 2.5mm - SHORT - SWISS 7075 T6
363114-H	COMPOSITE SUSP. ARM REAR LOWER RIGHT - 3-HOLE - HARD
363124-H	COMPOSITE SUSP. ARM REAR LOWER LEFT - 3-HOLE - HARD
323327-C	ALU REAR LOWER SUSPENSION HOLDER 3° - WIDER - REAR
323093	CARBON SHOCK TOWER - 4-DOTS - REAR

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

10

2x From Rear Arm SHIM 3x6.5x2

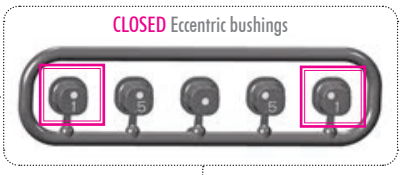
4x 903305 SFH M3x5

4x 903308 SFH M3x8



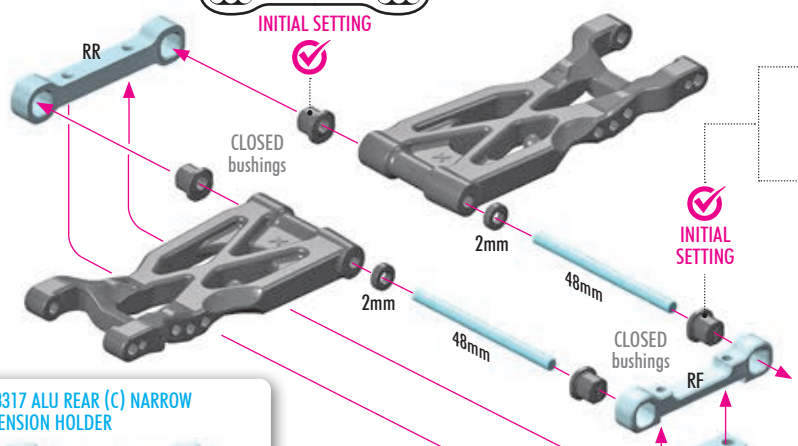
(TOE IN = 3° / ANTI-SQUAT = 2°)
DIRT 1° 0.5°
INITIAL SETTING

(TOE IN = 2° / ANTI-SQUAT = 2°)
CARPET 1° 0.5°
INITIAL SETTING



DIRT 1° 0.5°
(TOE IN = 3° / ANTI-SQUAT = 2°)

CARPET 1° 0.5°
(TOE IN = 2° / ANTI-SQUAT = 2°)



OPTION #323317 ALU REAR (C) NARROW SUSPENSION HOLDER



Must be used exclusively with:
#323326-C Alu Rear Lower Susp. Holder 1° - Rear.
NOT COMPATIBLE with the standard 3° rear (D) suspension holder.

TIP Arm Reamer 3.0mm (HUDY #107643).



If the suspension arm DOES NOT move freely use a HUDY Arm Reamer to size the holes of the arms.

Check for free movement.



ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE CENTER.



Middle position = 0.5° or 0.375mm from center.



Outer position = 1° or 0.75mm from center.

❶ All screws tighten gently.
❷ All screws fully tighten.

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

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

TOE-IN CARPET

RR	RF	(°)
XRAY 1°		=1°
XRAY 1°		=2°
XRAY 1°		=3°

TOE-IN DIRT

RR	RF	(°)
XRAY 3°		=3°
XRAY 3°		=4°
XRAY 3°		=2°
XRAY 3°		=1°
XRAY 3°		=5°

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-SQUAT Example:

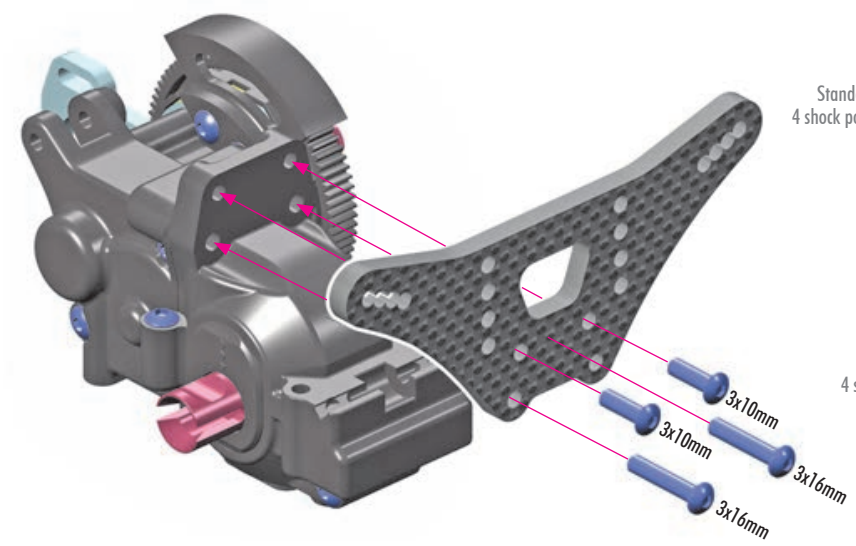
0(RR) - 0 (RF) = 2.0° = 2.0°

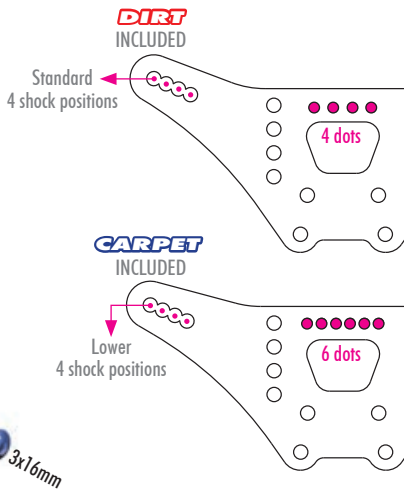
0(RR) - 0.5 (RF) = 2.5° = 2.5°

0(RR) - 1 (RF) = 3.0° = 3.0°

2x 902310 SH M3x10

2x 902316 SH M3x16

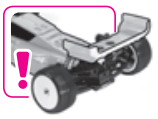




OPTION

REAR SHOCK TOWER			
#323093	4 DOTS	INCLUDED	DIRT
#323094	6 DOTS	INCLUDED	CARPET

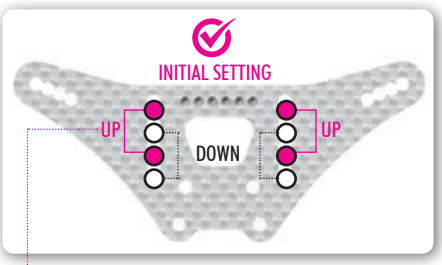


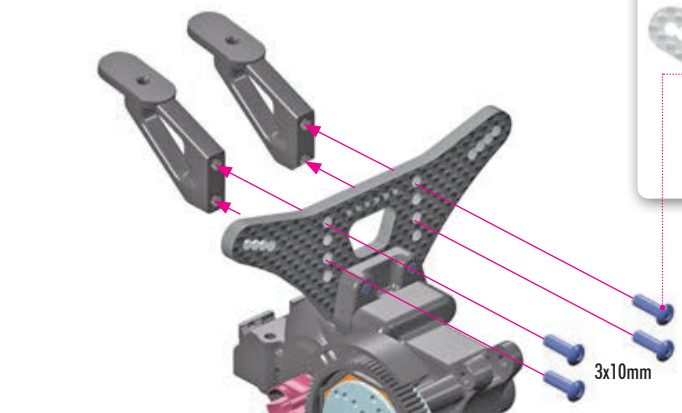


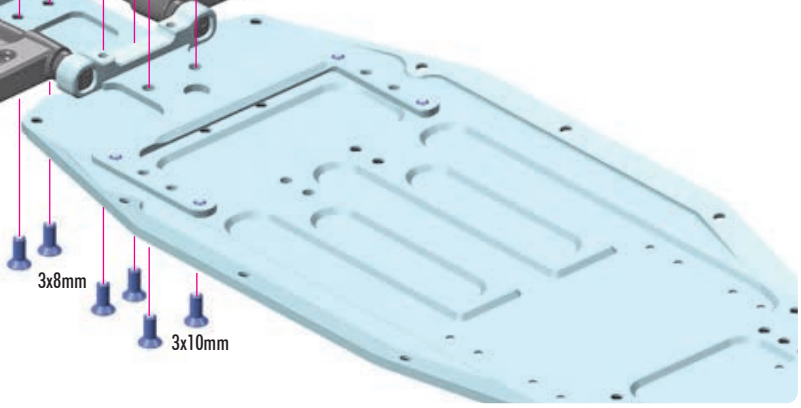
4x 902310 SH M3x10

4x 903308 SFH M3x8

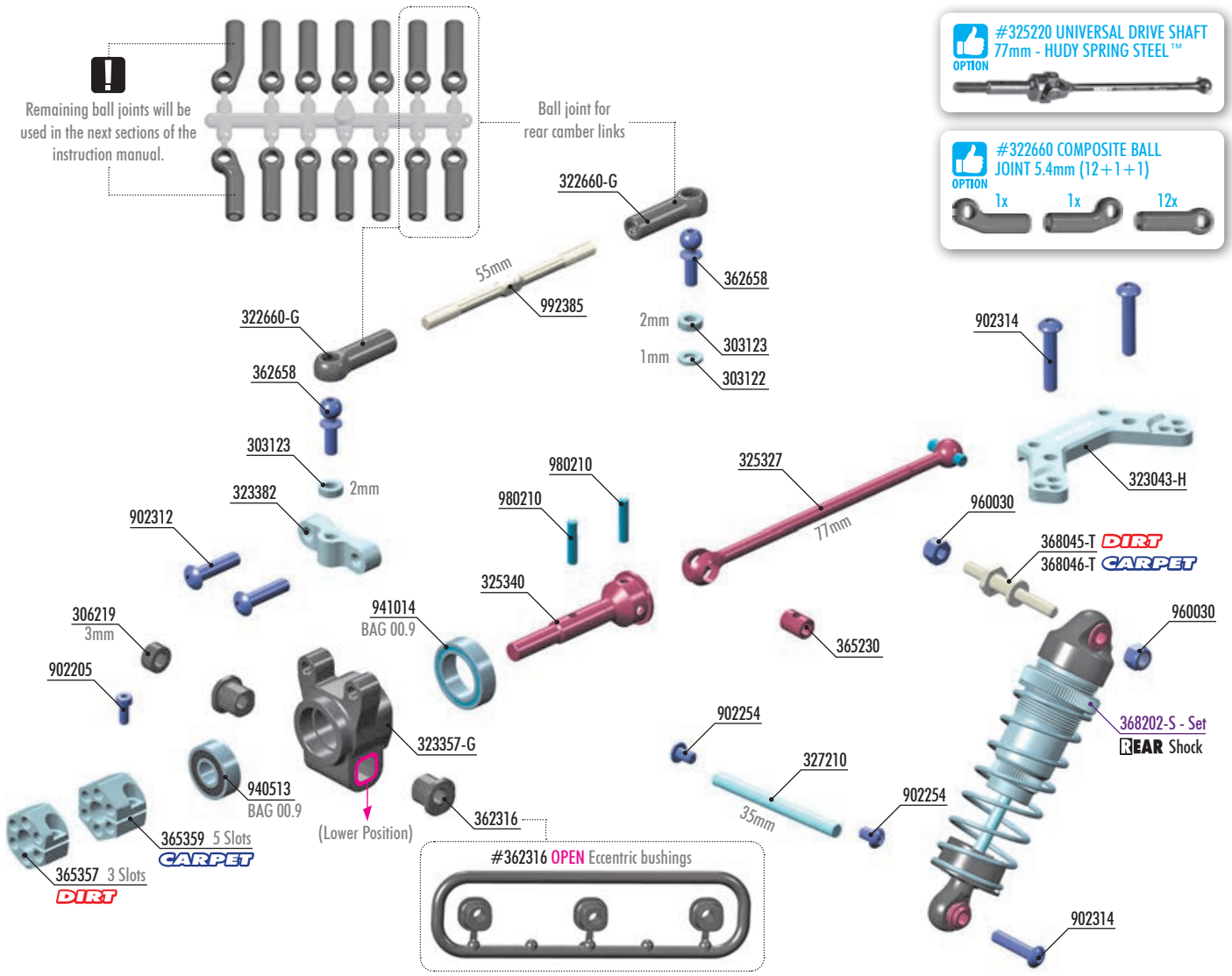
2x 903310 SFH M3x10











BAG 05

303122	ALU SHIM 3x6x1.0mm (10)
303123	ALU SHIM 3x6x2.0mm (10)
306219	COMPOSITE SET OF SHIMS (4)
322660-G	COMPOSITE BALL JOINT 5.4mm (12+1+1) - GRAPHITE
323043-H	ALU REAR ROLL-CENTER HOLDER FOR ANTI-ROLL BAR COLLAR - 7075 T6
323357-G	COMPOSITE UPRIGHT REAR - LOWER POSITION - GRAPHITE
323382	ALU REAR HUB PLATE FOR MULTI ADJ. UPRIGHT - 1-HOLE - SWISS 7075 T6
325327	REAR DRIVE SHAFT 77mm WITH 2.5mm PIN - HUDY SPRING STEEL™
325340	REAR DRIVE AXLE LB - HUDY SPRING STEEL™
327210	SUSPENSION PIVOT PIN (2)
362316	ECCENTRIC BUSHING SET - OPEN (2)
362658	HARD STEEL BALL END 5.4mm WITH 8mm THREAD - NICKEL COATED (2)
365230	DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
992385	HUDY TITANIUM ADJUSTABLE TURNBUCKLE 55mm M3.5 L/R (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)
980210	PIN 2x9.8 (10)

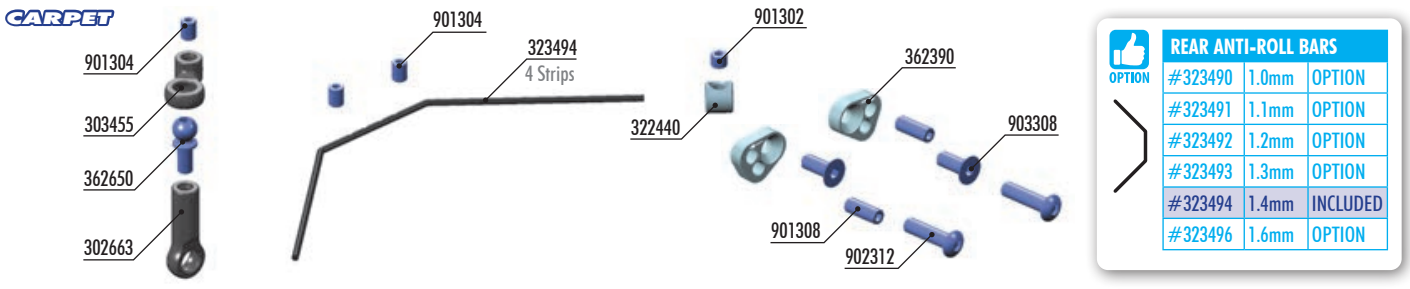
CARPET

365359	ALU WHEEL HUB 12mm - 5 SLOTS - OFFSET "+3.75mm" (2)
368045-T	XRAY TITANIUM SHOCK STANDOFFS (2)

DIRT

365357	ALU WHEEL HUB 12mm - 3 SLOTS - OFFSET "+2.25mm" (2)
368046-T	XRAY TITANIUM SHOCK STANDOFFS - LONG (2)

368202-S SHOCK ABSORBERS 35.5mm - SHORT CAP - BIG BORE - SET (2)



CARPET BAG 05.1

XB2 REAR ANTI-ROLL BAR SET

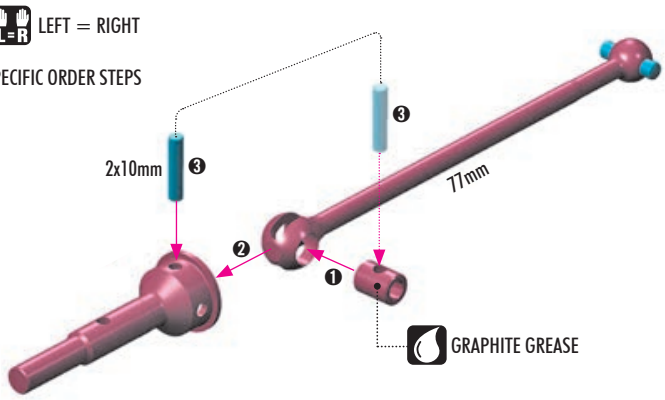
302663	COMPOSITE BALL JOINT 4.9mm - OPEN - V2 (8)
303455	COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9mm (4)
322440	ALU ANTI-ROLL BAR COLLAR
323494	ANTI-ROLL BAR REAR - SHORT - 1.4mm
362390	ALU REAR SHOCK ABSORBER ADAPTER (1+1) - SET
362650	BALL END 4.9mm WITH THREAD 6mm (2)
901302	HEX SCREW SB M3x2.5 (10)
901304	HEX SCREW SB M3x4 (10)
901308	HEX SCREW SB M3x8 (10)
902312	HEX SCREW SH M3x12 (10)
903308	HEX SCREW SFH M3x8 (10)

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

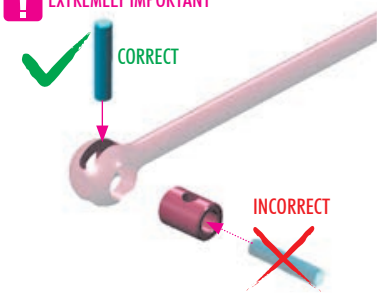
2x 980210 P 2x10

2x LEFT = RIGHT

SPECIFIC ORDER STEPS



EXTREMELY IMPORTANT



OPTION # 325220 UNIVERSAL DRIVE SHAFT 77mm - HUDY SPRING STEEL™



OPTION #106059 SET OF REPLACEMENT DRIVE SHAFT PINS 2x10mm - EXTRA HARD (4)



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



Drive shaft length adjustment uses 4 different connecting hole positions at the drive axle end to allow changes to overall driveshaft length.

2x 902205 SH M2x5

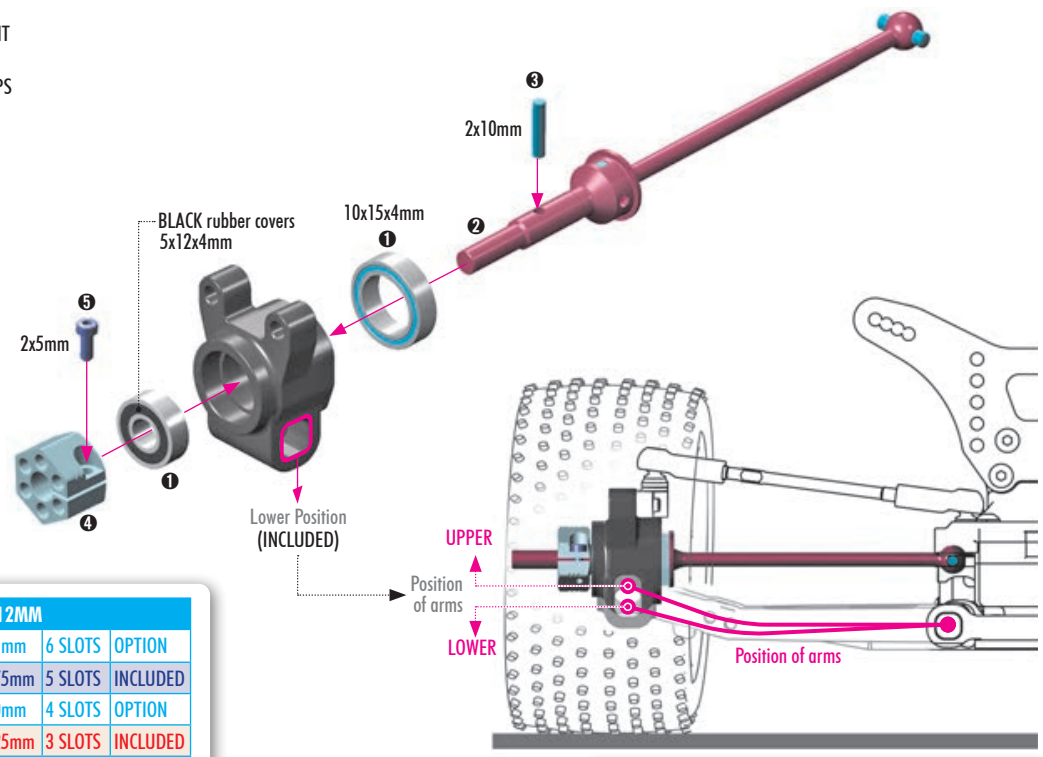
2x 940513 BB 5x12x4

2x 941014 BB 10x15x4

2x 980210 P 2x10

2x LEFT = RIGHT

SPECIFIC ORDER STEPS



OPTION

WHEEL HUBS 12MM			
#365360	+4.5mm	6 SLOTS	OPTION
#365359	+3.75mm	5 SLOTS	INCLUDED
#365358	+3.0mm	4 SLOTS	OPTION
#365357	+2.25mm	3 SLOTS	INCLUDED
#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

OPTION

REAR UPRIGHTS		Position	
#323354-M	MEDIUM	UPPER	OPTION
#323357-M	MEDIUM	LOWER	OPTION
#323354-H	HARD	UPPER	OPTION
#323354-G	GRAPHITE	UPPER	OPTION
#323357-G	GRAPHITE	LOWER	INCLUDED
#323355	ALU HIGH	UPPER	OPTION
#323356	ALU LOW	LOWER	OPTION
#323358	ALU EXTRA LOW		OPTION



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

OPTION

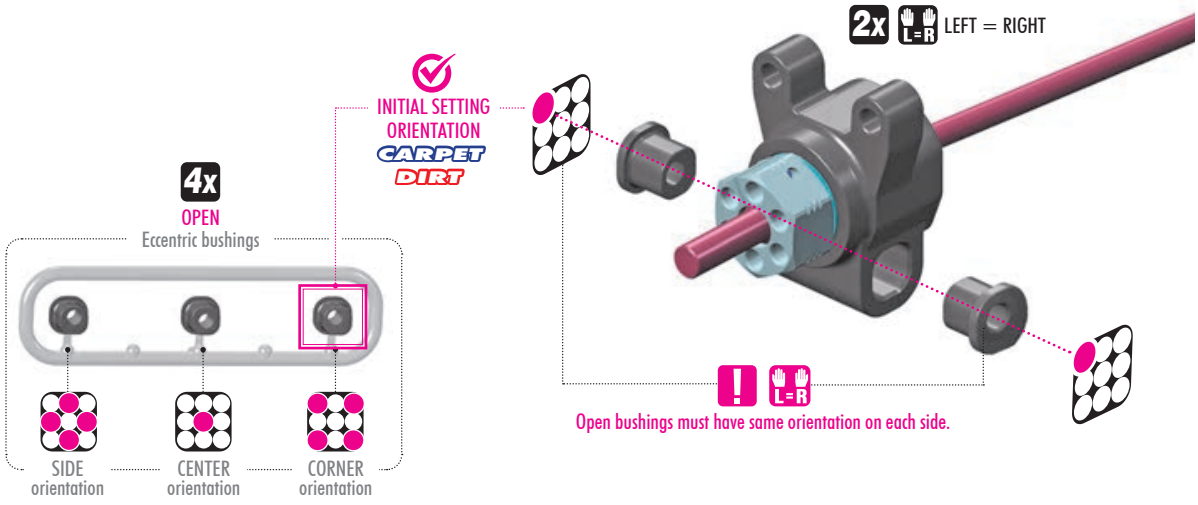
XRAY BALL-BEARINGS			
#940512	5x12x4	OIL	OPTION
#941015	10x15x4	OIL	OPTION
#940513	5x12x4	GREASE	INCLUDED
#941014	10x15x4	GREASE	INCLUDED



OPTION #106059 SET OF REPLACEMENT DRIVE SHAFT PINS 2x10mm-EXTRA HARD (4)



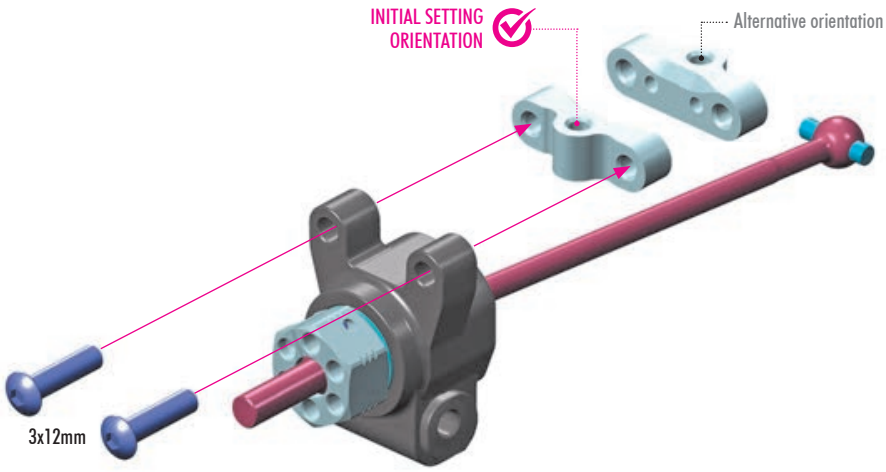
2x L=R LEFT = RIGHT





4x 902312 SH M3x12

2x L=R LEFT = RIGHT

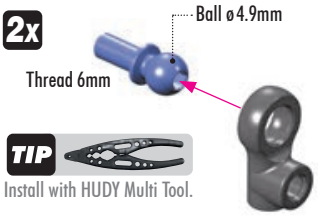


CARPET BAG 05.1

! CARPET Step only for Carpet edition.

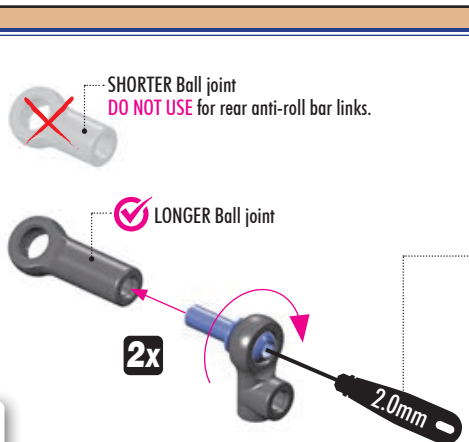
L=R LEFT = RIGHT

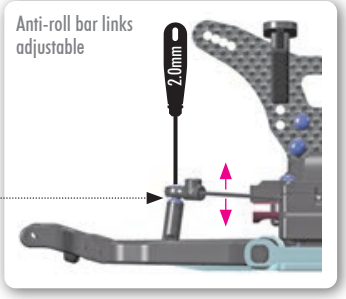
2x



TIP

Install with HUDY Multi Tool.





OPTION

HUDY TITAN BALL ENDS 4.9mm		
#990006	6mm LONG	OPTION



1x 901302 SB M3x2.5

2x 901304 SB M3x4

CARPET Step only for Carpet edition.

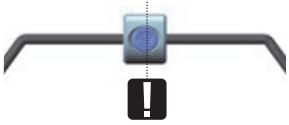
Set the collar into the CENTER of rear anti-roll bar.

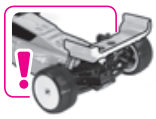
3x2.5mm Setscrew is already threaded in collar.

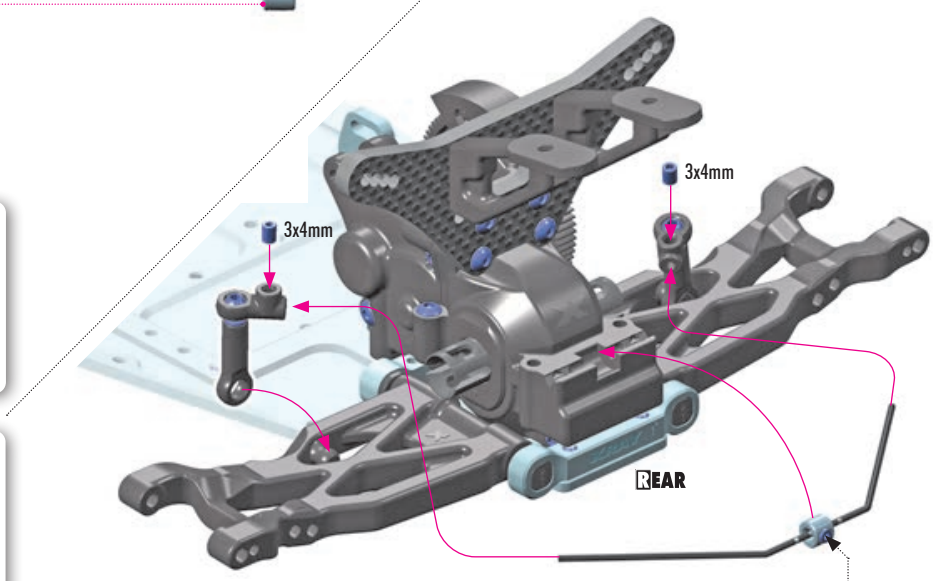
4 Strips



Set the collar into the CENTER







NOTE ORIENTATION of Set screw

OPTION

REAR ANTI-ROLL BARS		
#323490	1.0mm	OPTION
#323491	1.1mm	OPTION
#323492	1.2mm	OPTION
#323493	1.3mm	OPTION
#323494	1.4mm	INCLUDED
#323496	1.6mm	OPTION

2x 901304 SB M3x4

2x 902314 SH M3x14

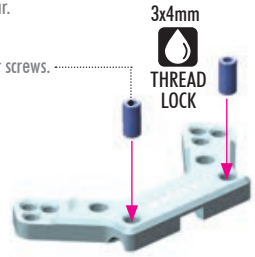
CARPET

Assembly with anti-roll bar.

Tighten gently 3x4mm

Step ❶ pre-assemble set screws.

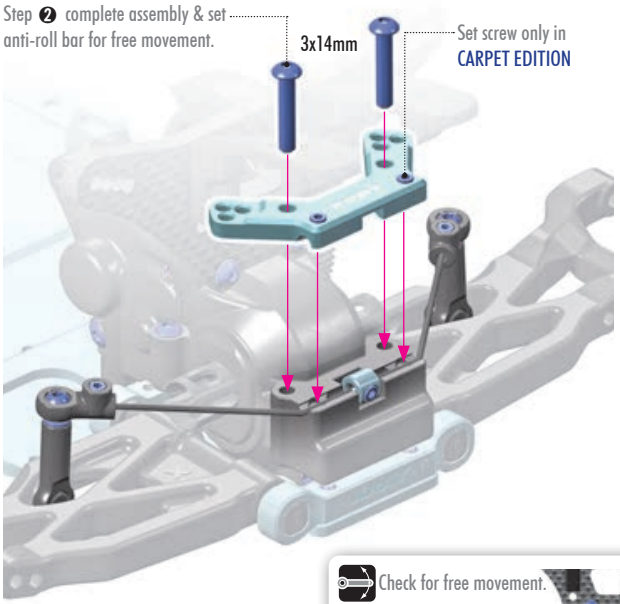
THREAD LOCK



Step ❷ complete assembly & set anti-roll bar for free movement.

3x14mm

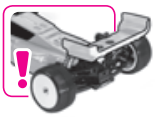
Set screw only in CARPET EDITION



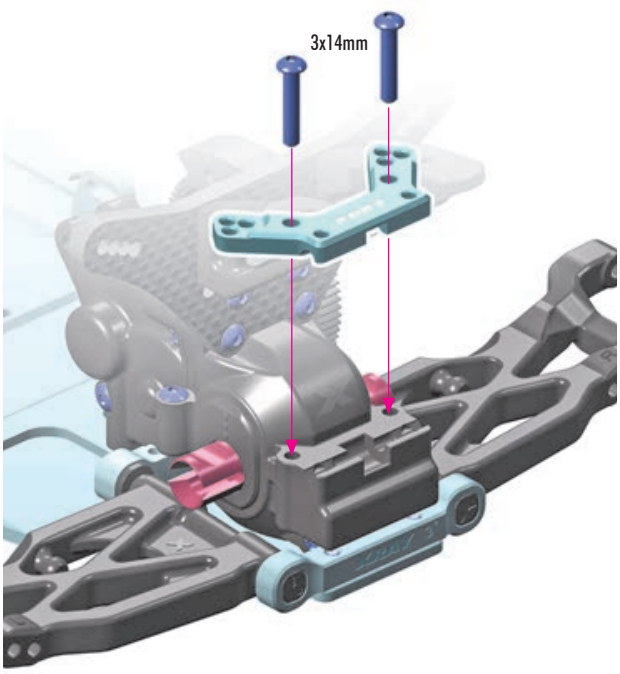


DIRT

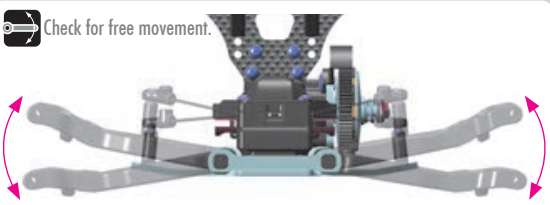
Assembly without anti-roll bar.



3x14mm



Check for free movement.



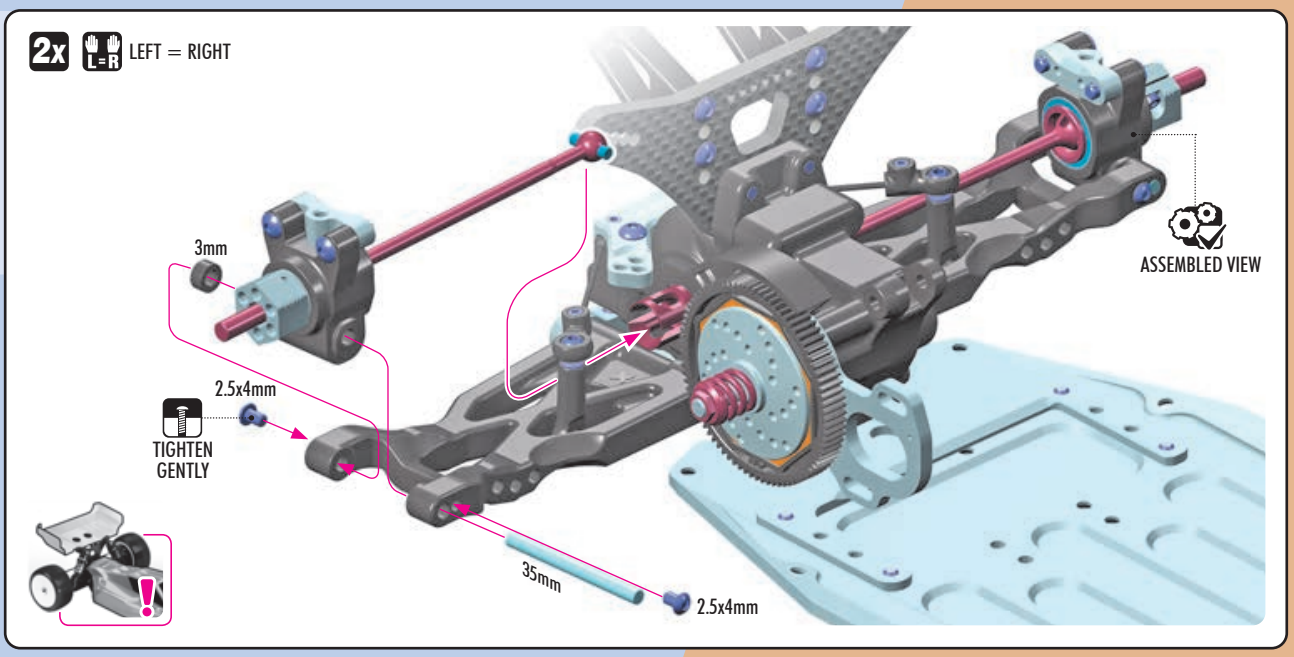
OPTION

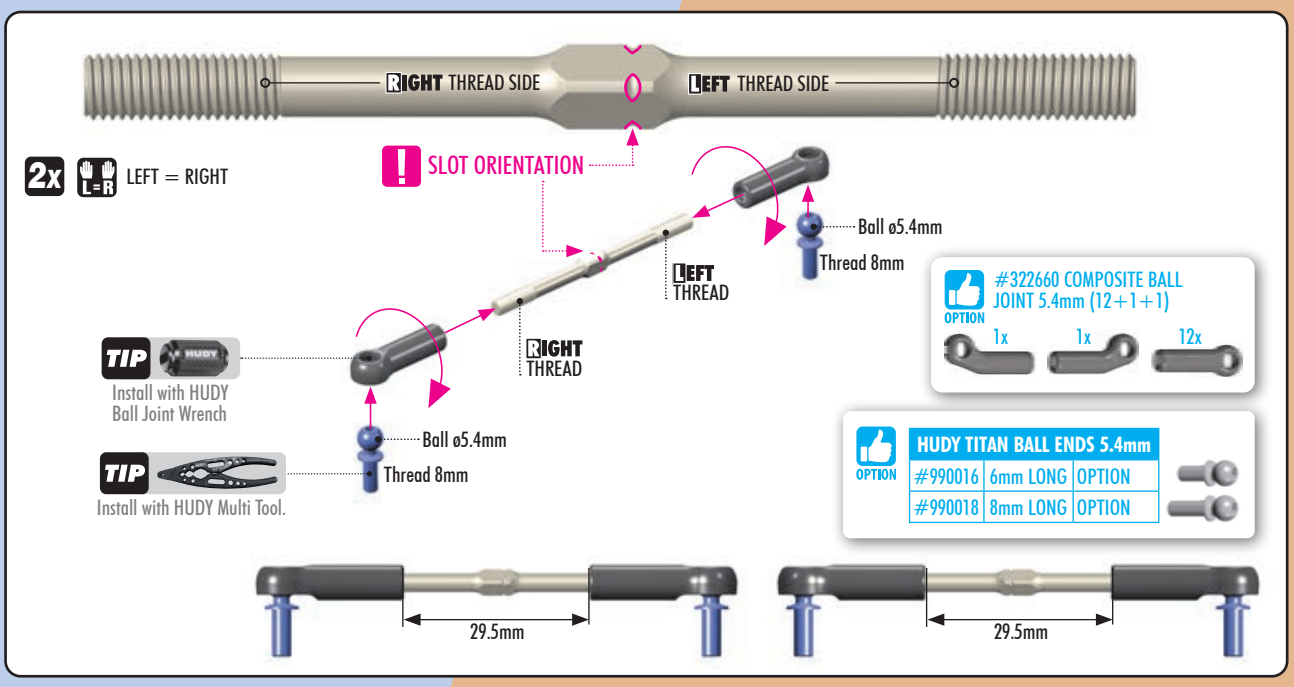
REAR ROLL CENTER HOLDERS		
#323044	HARD	OPTION
#323044-G	GRAPHITE	OPTION
#323043-H	ALU	INCLUDED



2x 306219 SHIM 3x6x3

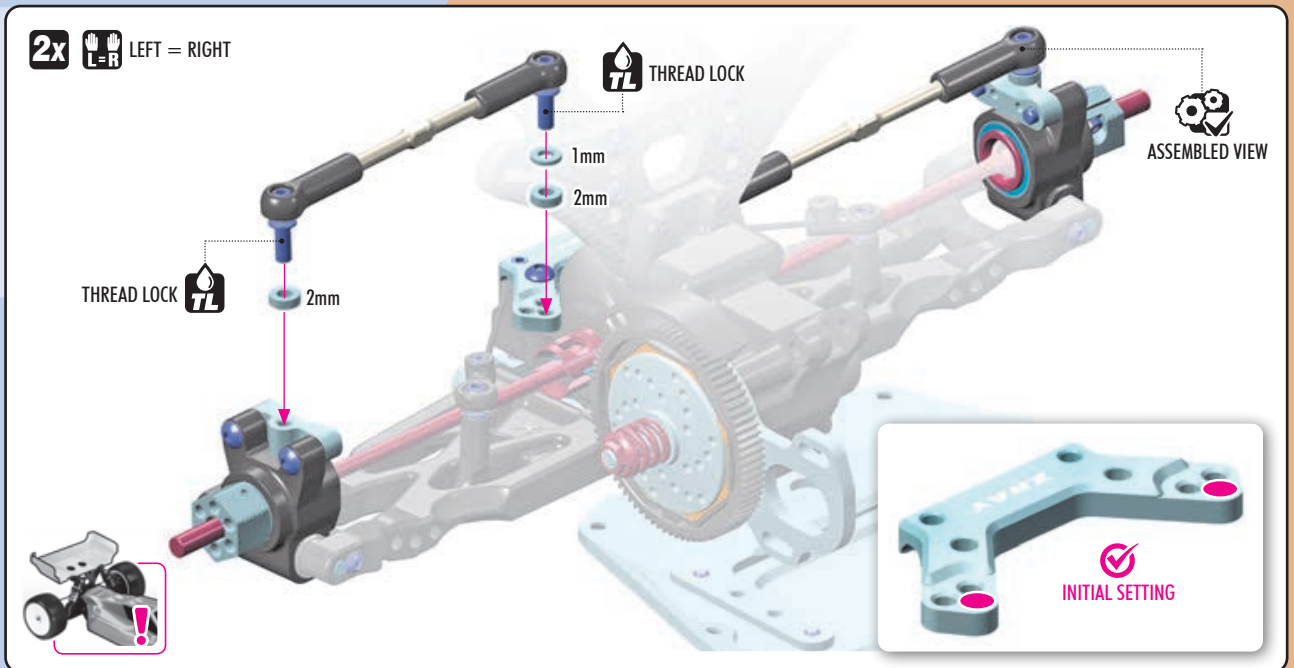
4x 902254 SH M2.5x4





2x 303122 SHIM 3x6x1

4x 303123 SHIM 3x6x2



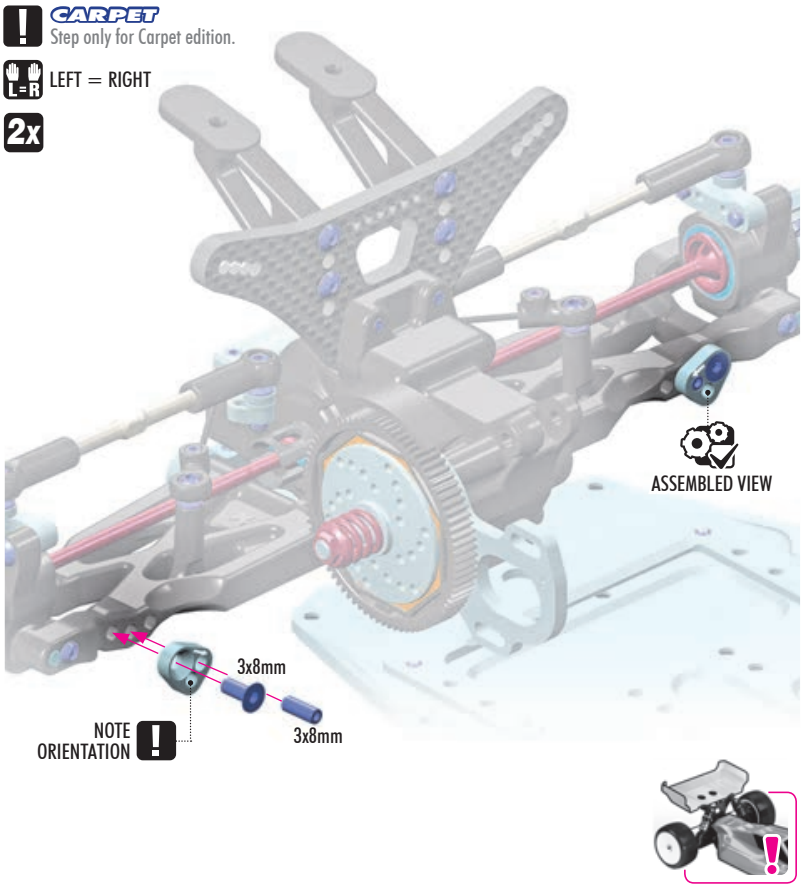
2x 901308 SB M3x8

2x 903308 SFH M3x8

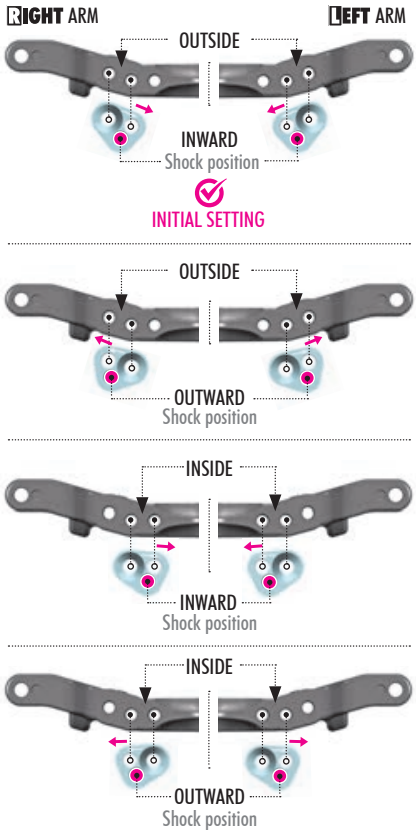
CARPET Step only for Carpet edition.

LEFT = RIGHT

2x



SHOCK POSITION ALTERNATIVES

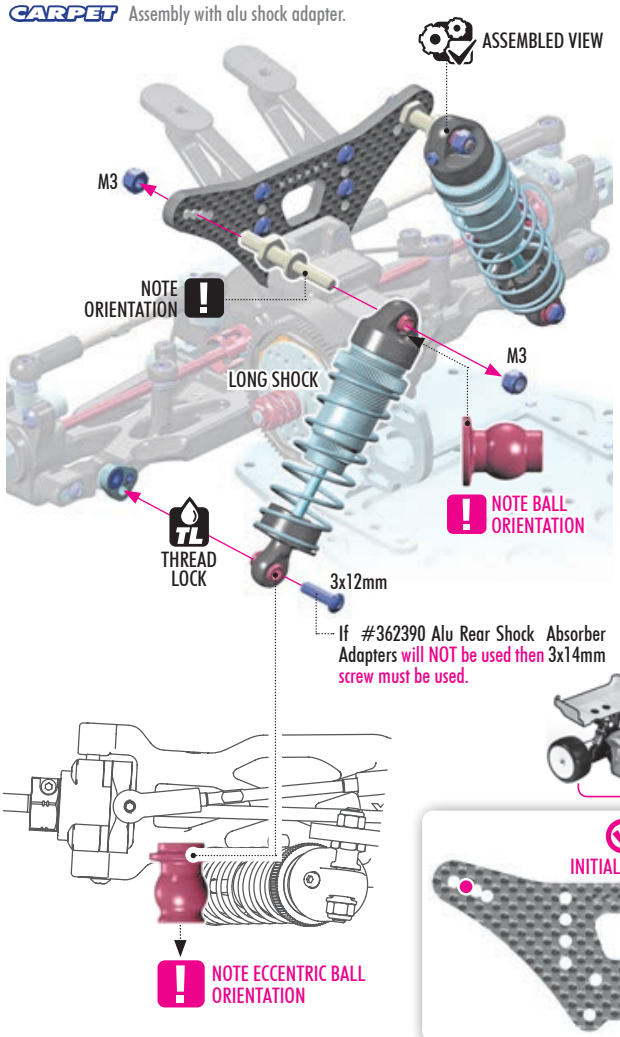


2x 902312 SH M3x12

2x 902314 SH M3x14

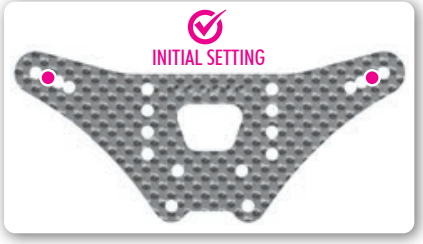
4x 960030 NUT M3

CARPET Assembly with alu shock adapter.

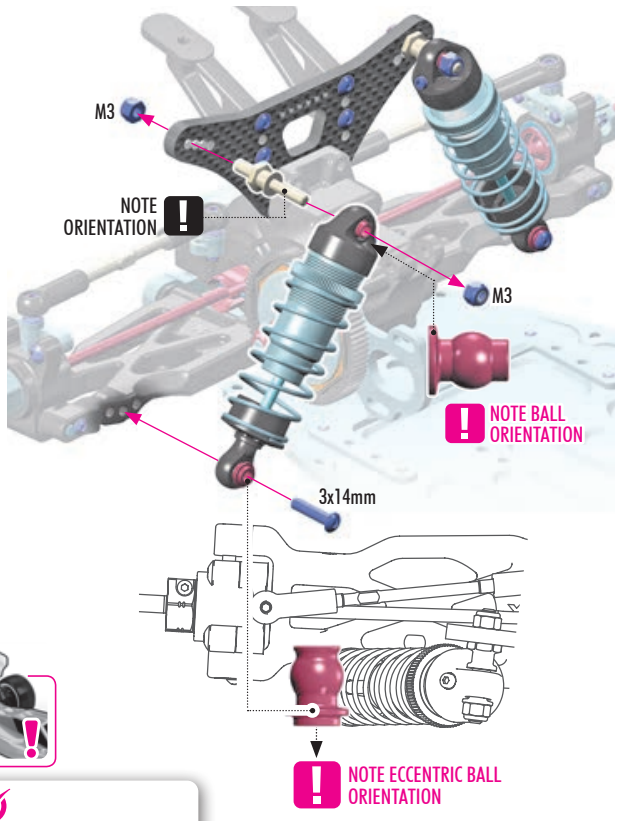


If #362390 Alu Rear Shock Absorber Adapters will NOT be used then 3x14mm screw must be used.





DIRT Assembly without alu shock adapter.





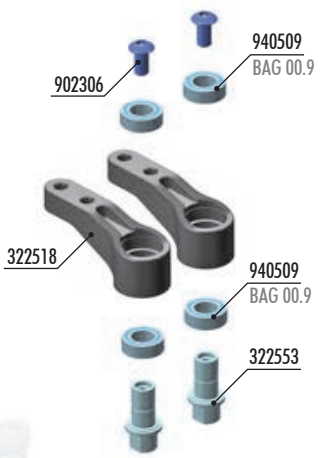
OPTION #322575
ALU STEERING PLATE FOR 1-PIECE CHASSIS - SET

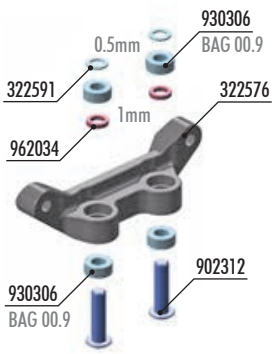


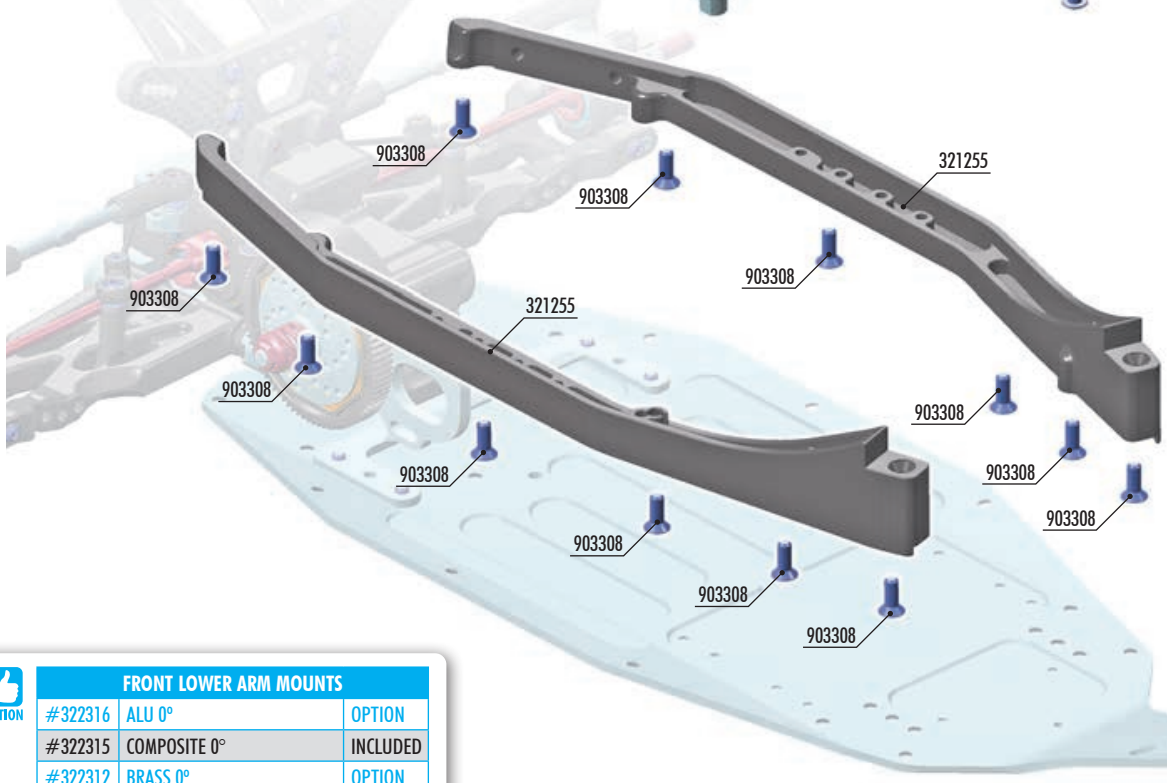
OPTION

STEERING ARMS			
#322515	HARD	SHORT	OPTION
#322516	ALU	SHORT	OPTION
#322518	HARD	LONG	INCLUDED
#322517	ALU	LONG	OPTION









OPTION

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.

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





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



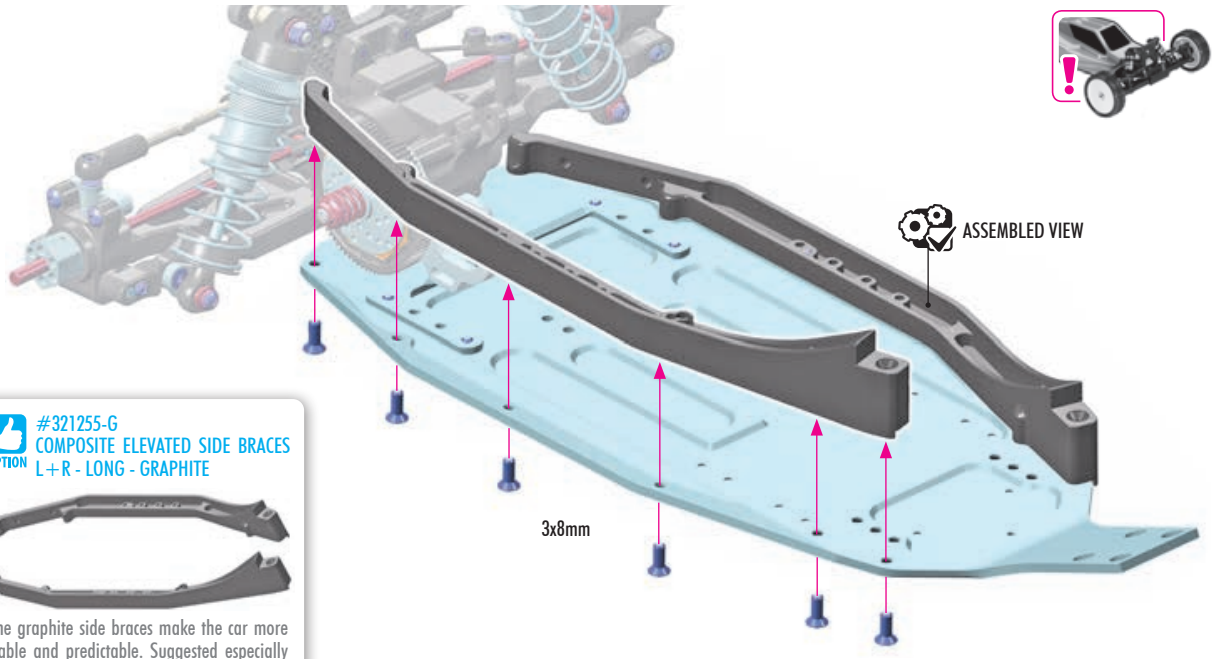


BAG 06

321255	COMPOSITE ELEVATED SIDE BRACES L+R - LONG
322315	COMPOSITE FRONT LOWER ARM MOUNT FOR 1-PIECE CHASSIS
322518	COMPOSITE STEERING ARM FOR 1-PIECE CHASSIS (2)
322553	ALU STEERING PIVOT SHAFT 14.0mm - SWISS 7075 T6 (2)
322576	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

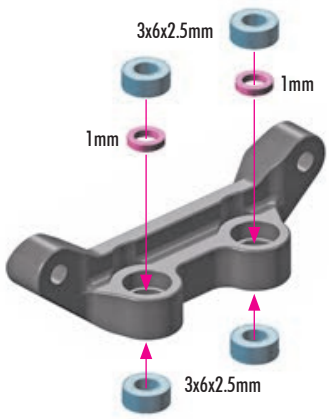


OPTION #321255-G
COMPOSITE ELEVATED SIDE BRACES L+R - LONG - GRAPHITE

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



OPTION

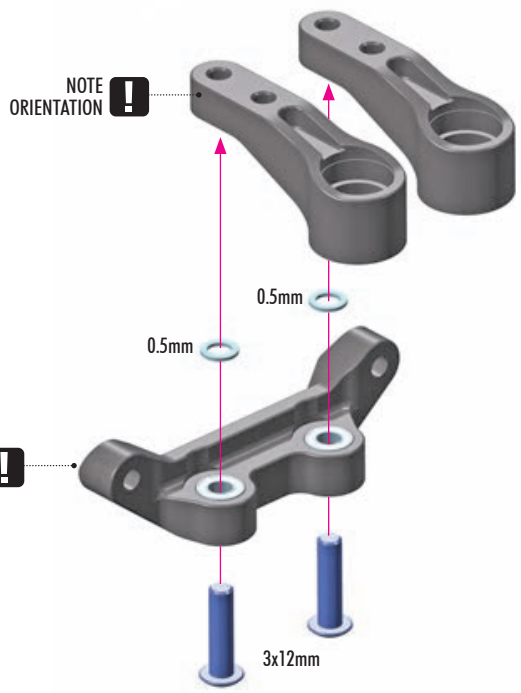
STEERING PLATES		
#322576	HARD	INCLUDED
#322575	ALU	OPTION



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



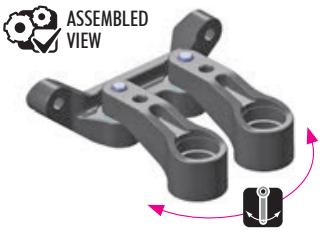
OPTION

STEERING ARMS			
#322515	HARD	SHORT	OPTION
#322516	ALU	SHORT	OPTION
#322518	HARD	LONG	INCLUDED
#322517	ALU	LONG	OPTION



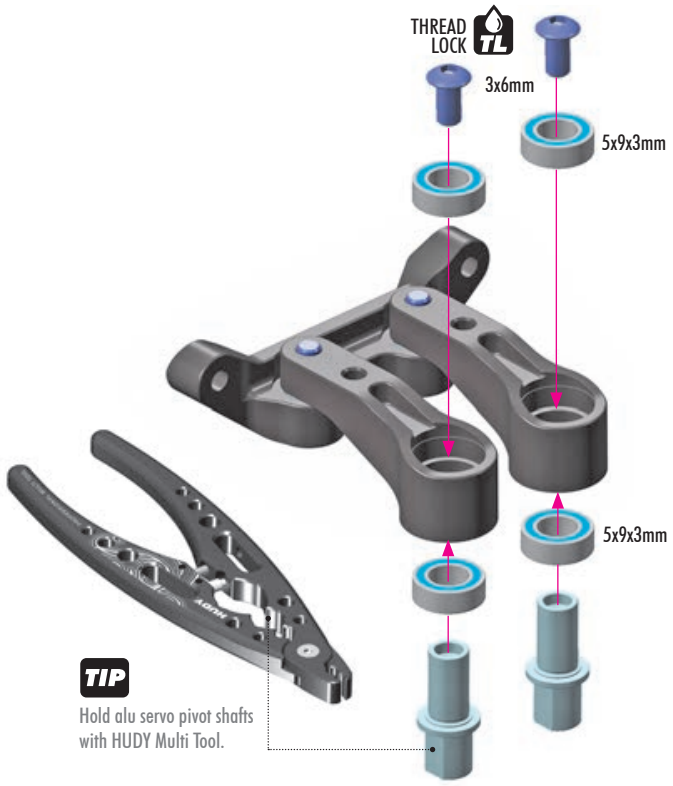
SHORT STEERING ARMS
Less reactive steering with a smoother and more progressive steering feel.

LONG STEERING ARMS
More reactive steering with quicker response and a more direct steering feel.

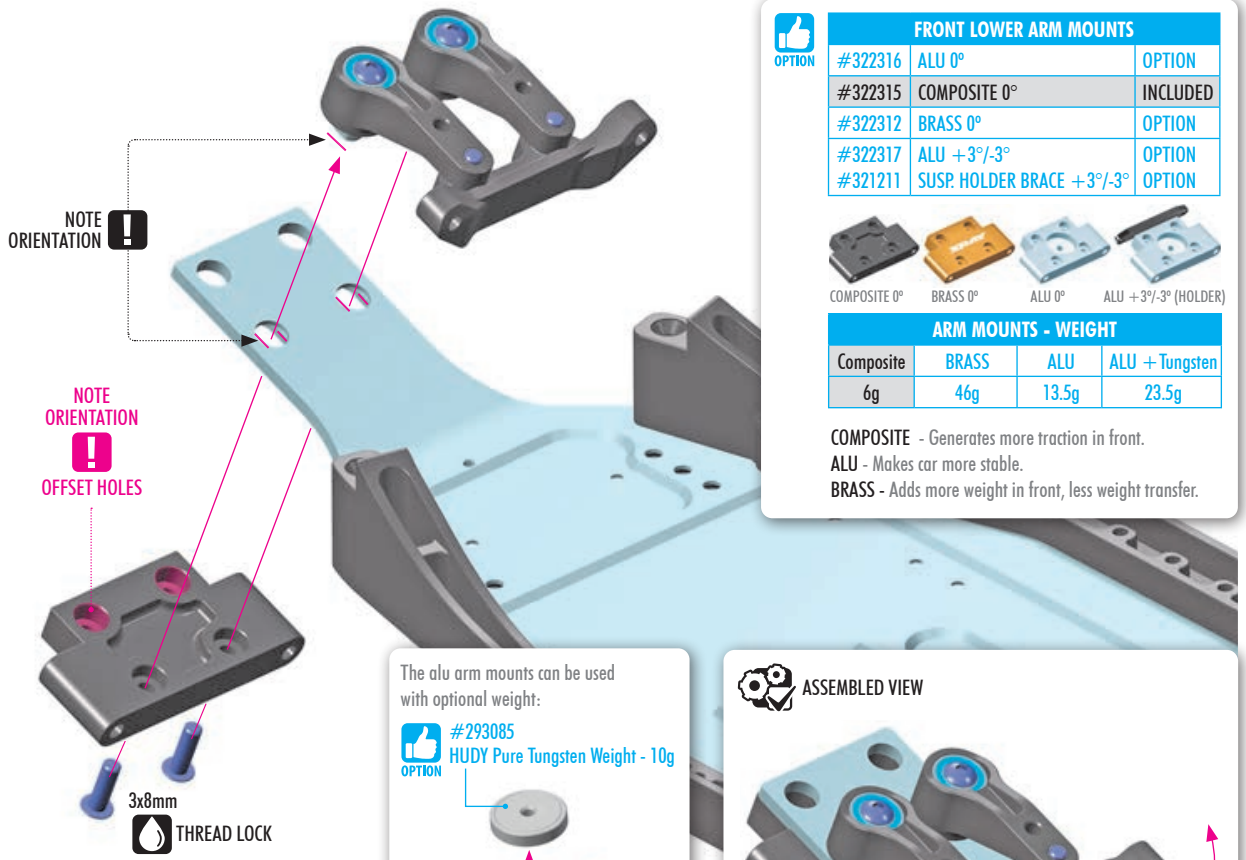


2x 902306 SH M3x6

4x 940509 BB 5x9x3



2x 902308 SH M3x8



OPTION

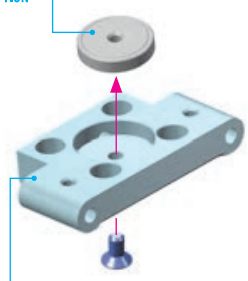
FRONT LOWER ARM MOUNTS		
#322316	ALU 0°	OPTION
#322315	COMPOSITE 0°	INCLUDED
#322312	BRASS 0°	OPTION
#322317	ALU +3°/-3°	OPTION
#321211	SUSP. HOLDER BRACE +3°/-3°	OPTION

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.

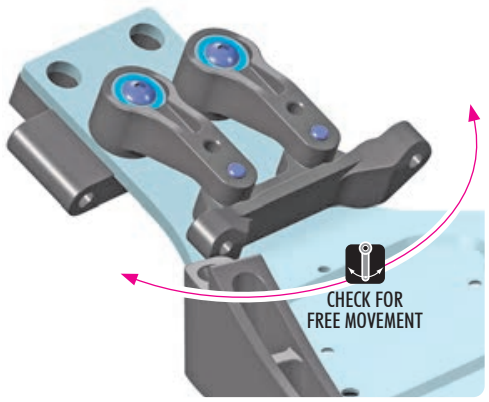
The alu arm mounts can be used with optional weight:

OPTION #293085 HUDY Pure Tungsten Weight - 10g

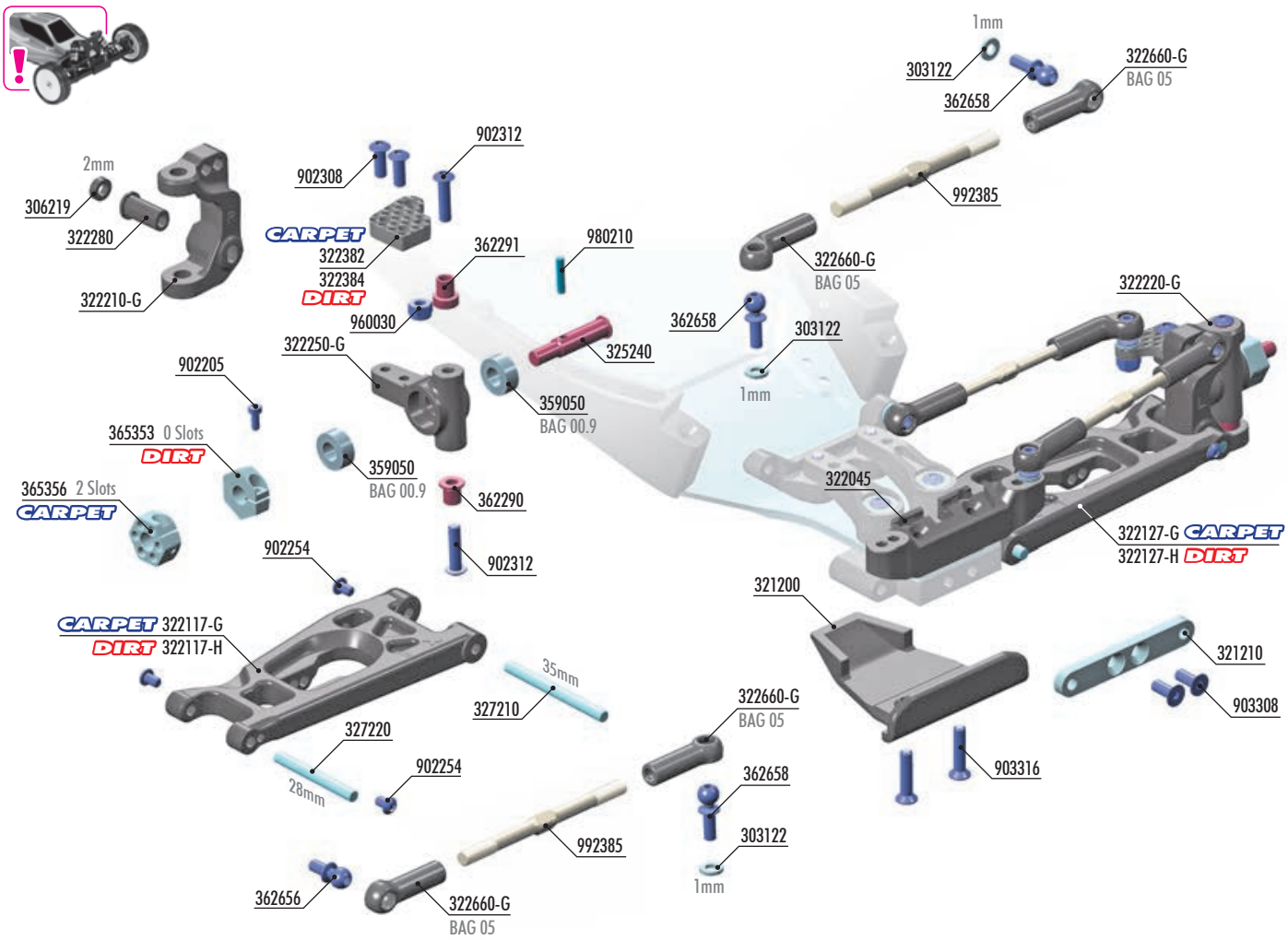


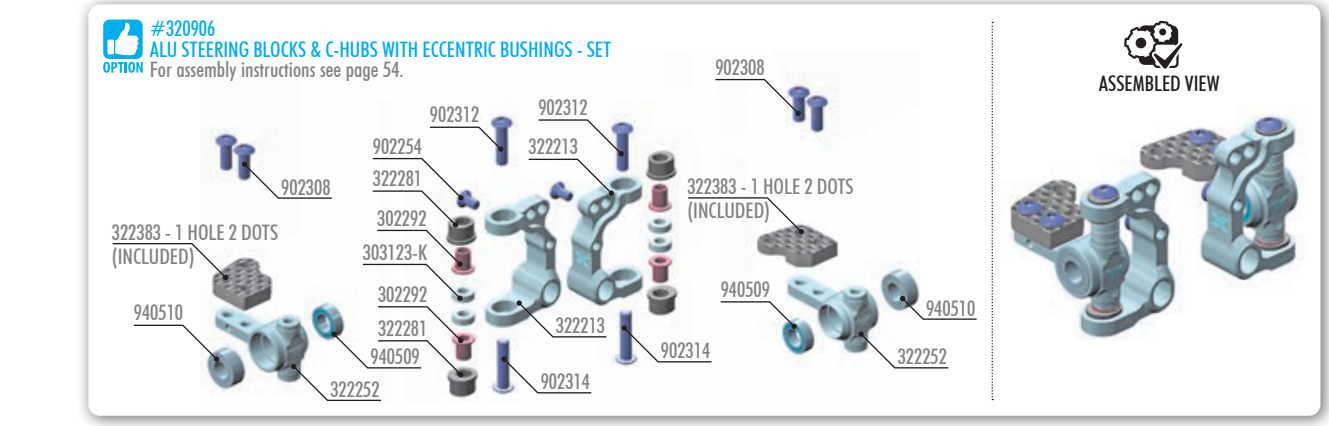
OPTION ALU FRONT LOWER ARM MOUNTS

ASSEMBLED VIEW









BAG 07

303122	ALU SHIM 3x6x1.0mm (10)
306219	COMPOSITE SET OF SERVO SHIMS (4)
321200	COMPOSITE FRONT BUMPER
321210	ALU SUSPENSION HOLDER BRACE - SWISS 7075 T6 (3mm)
322045	COMPOSITE FRONT ROLL-CENTER HOLDER FOR BRIDGE UPPER DECK
322210-G	COMPOSITE C-HUB 0° DEG. RIGHT - GRAPHITE
322220-G	COMPOSITE C-HUB 0° DEG. LEFT - GRAPHITE
322250-G	COMPOSITE STEERING BLOCK - GRAPHITE
322280	COMPOSITE CASTER ECCENTRIC BUSHING (2+2+2)
322660-G	COMPOSITE BALL JOINT 5.4mm (12+1+1) - GRAPHITE
325240	FRONT DRIVE AXLE - HUDY SPRING STEEL™
327210	FRONT SUSPENSION PIVOT PIN 3x35mm (2)
327220	FRONT ARM PIVOT PIN 3x28mm (2)
362290	STEEL STEERING BUSHING - SHORT (2)
362291	STEEL STEERING BUSHING - LONG (2)
362656	BALL ENDS 5.4mm WITH THREAD 6mm (2)
362658	BALL ENDS 5.4mm WITH THREAD 8mm (2)
992385	HUDY TITANIUM ADJUSTABLE TURNBUCKLE 55mm M3.5 L/R (2)
359050	BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)

902205	HEX SCREW SH M2x5 (10)
902254	HEX SCREW SH M2.5x4 (10)
902308	HEX SCREW SH M3x8 (10)
902312	HEX SCREW SH M3x12 (10)
903308	HEX SCREW SFH M3x8 (10)
903316	HEX SCREW SFH M3x16 (10)
960030	NUT M3 (10)
980210	PIN 2x9.8 (10)

CARPET

322117-G	SUSPENSION ARM FRONT - LSM - RIGHT - SHORT - GRAPHITE
322127-G	SUSPENSION ARM FRONT - LSM - LEFT - SHORT - GRAPHITE
322382	CARBON EXTENSION FOR STEERING BLOCK - 1 HOLE 1 DOT (2)
365356	ALU WHEEL HUB 12mm - 2 SLOTS - OFFSET +1.50mm (2)

DIRT

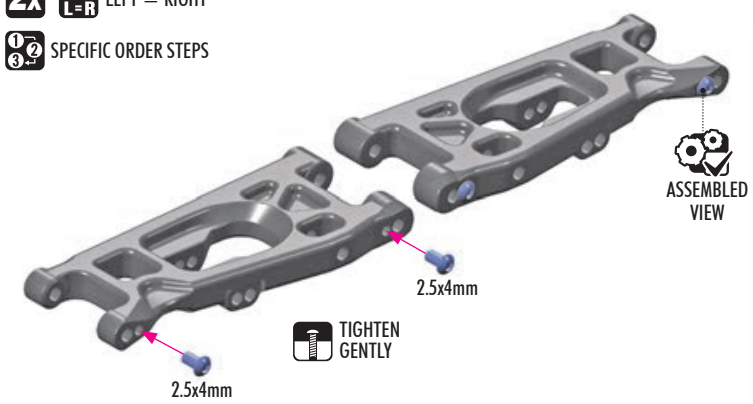
322117-H	SUSPENSION ARM FRONT - LSM - RIGHT - SHORT - HARD
322127-H	SUSPENSION ARM FRONT - LSM - LEFT - SHORT - HARD
322384	CARBON EXTENSION FOR STEERING BLOCK - 1 HOLE 3 DOTS (2)
365353	ALU WHEEL HUB 12mm - 0 SLOTS (2)

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

4x 902254 SH M2.5x4

2x L=R LEFT = RIGHT

SPECIFIC ORDER STEPS



OPTION

FRONT LSM SUSPENSION ARMS - LONG			
#322113-M	RIGHT	MEDIUM	OPTION
#322123-M	LEFT	MEDIUM	OPTION
#322113-H	RIGHT	HARD	OPTION
#322123-H	LEFT	HARD	OPTION
#322113-G	RIGHT	GRAPHITE	OPTION
#322123-G	LEFT	GRAPHITE	OPTION

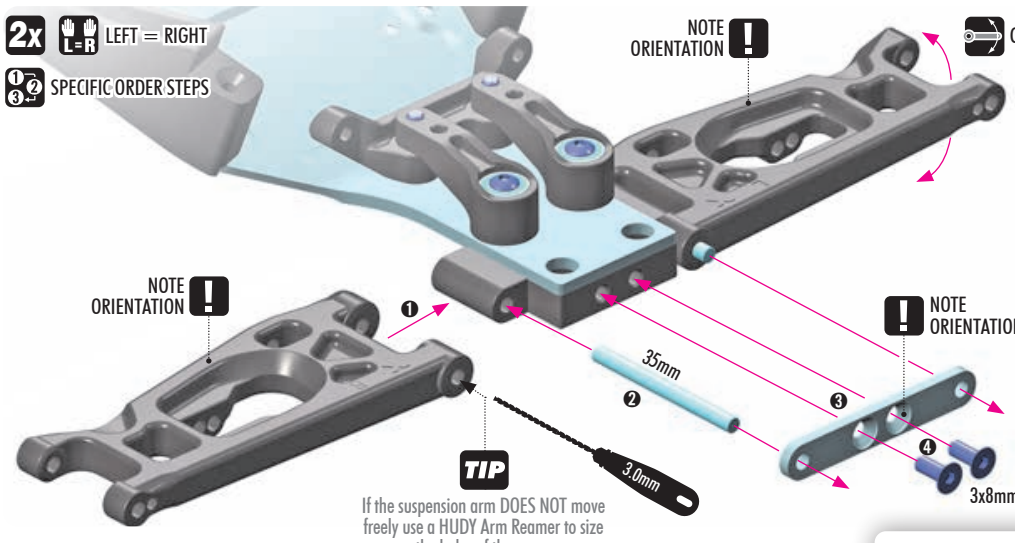
OPTION

FRONT LSM SUSPENSION ARMS - SHORT			
#322117-M	RIGHT	MEDIUM	OPTION
#322127-M	LEFT	MEDIUM	OPTION
#322117-H	RIGHT	HARD	INCLUDED
#322127-H	LEFT	HARD	INCLUDED
#322117-G	RIGHT	GRAPHITE	INCLUDED
#322127-G	LEFT	GRAPHITE	INCLUDED

2x 903308 SFH M3x8

2x L=R LEFT = RIGHT

SPECIFIC ORDER STEPS



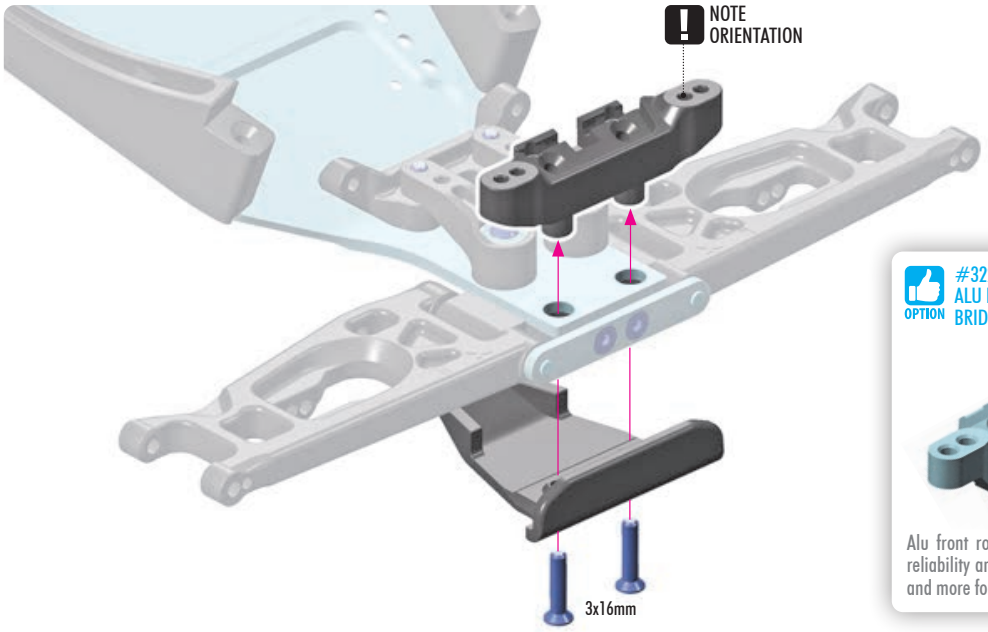
If the suspension arm DOES NOT move freely use a HUDY Arm Reamer to size the holes of the arms.

#107643 - HUDY Arm Reamer 3.0mm

OPTION #321212 CARBON SUSPENSION HOLDER BRACE 0°



2x 903316 SFH M3x16



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



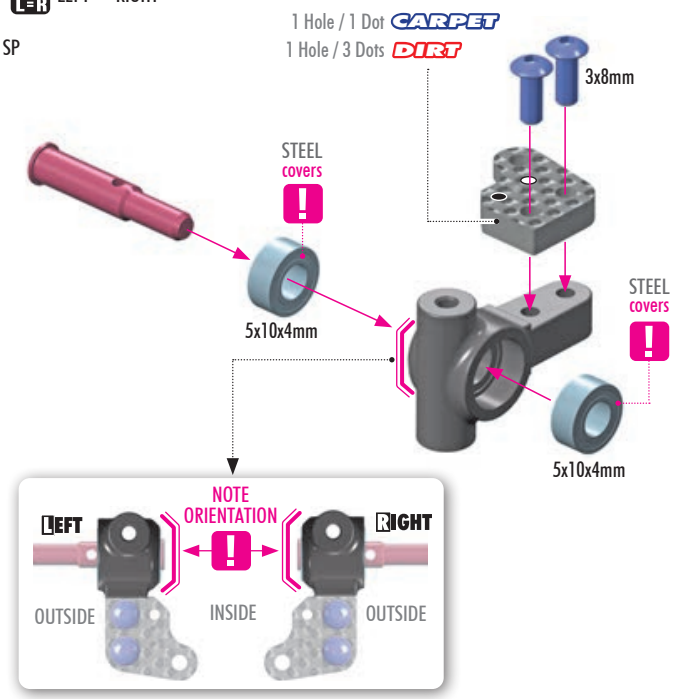
Alu front roll-center holder increases strength, reliability and makes the handling more precise and more forgiving.

4x 902308 SH M3x8

4x 940510 BB 5x10x4

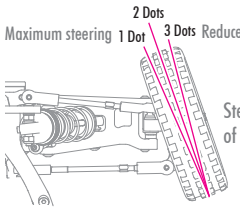
2x L=R LEFT = RIGHT

SP



OPTION

STEERING BLOCK EXTENSIONS		
#322381	1 HOLE	OPTION
#322382	1 HOLE 1 DOT	INCLUDED
#322383	1 HOLE 2 DOTS	OPTION
#322384	1 HOLE 3 DOTS	INCLUDED



OPTION

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

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

2x 902205 SH M2x5

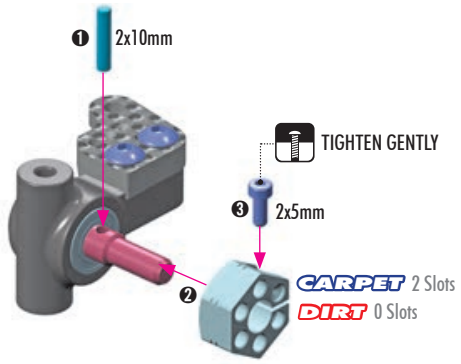
2x 980210 P 2x10

2x L=R LEFT = RIGHT

SPECIFIC ORDER STEPS

OPTION #106059 SET OF REPLACEMENT DRIVE SHAFT PINS 2x10mm-EXTRA HARD (4)





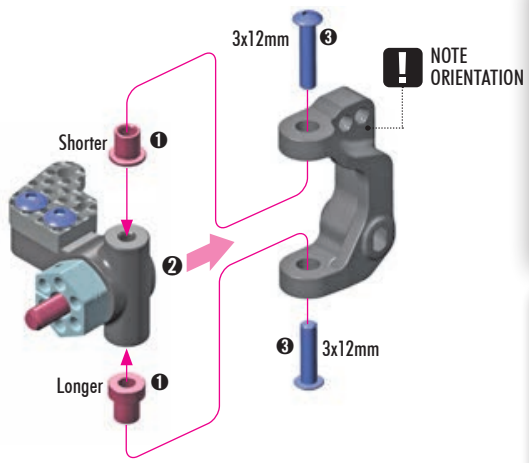
OPTION

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	INCLUDED
#365354	- 0.75mm	Lightw.	OPTION
#365361	-1.25mm	Lightw.	OPTION

4x 902312 SH M3x12

2x L=R LEFT = RIGHT

SPECIFIC ORDER STEPS



OPTION #320906 ALU STEERING BLOCKS & C-HUBS WITH ECCENTRIC BUSHINGS - SET

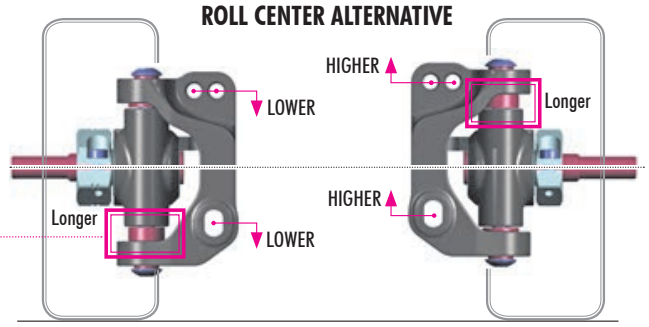


OPTION

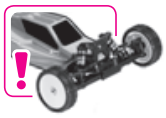
C-HUBS			
#322210-M	RIGHT	MEDIUM	OPTION
#322210-H	RIGHT	HARD	OPTION
#322210-G	RIGHT	GRAPHITE	INCLUDED
#322220-M	LEFT	MEDIUM	OPTION
#322220-H	LEFT	HARD	OPTION
#322220-G	LEFT	GRAPHITE	INCLUDED

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.

ROLL CENTER ALTERNATIVE

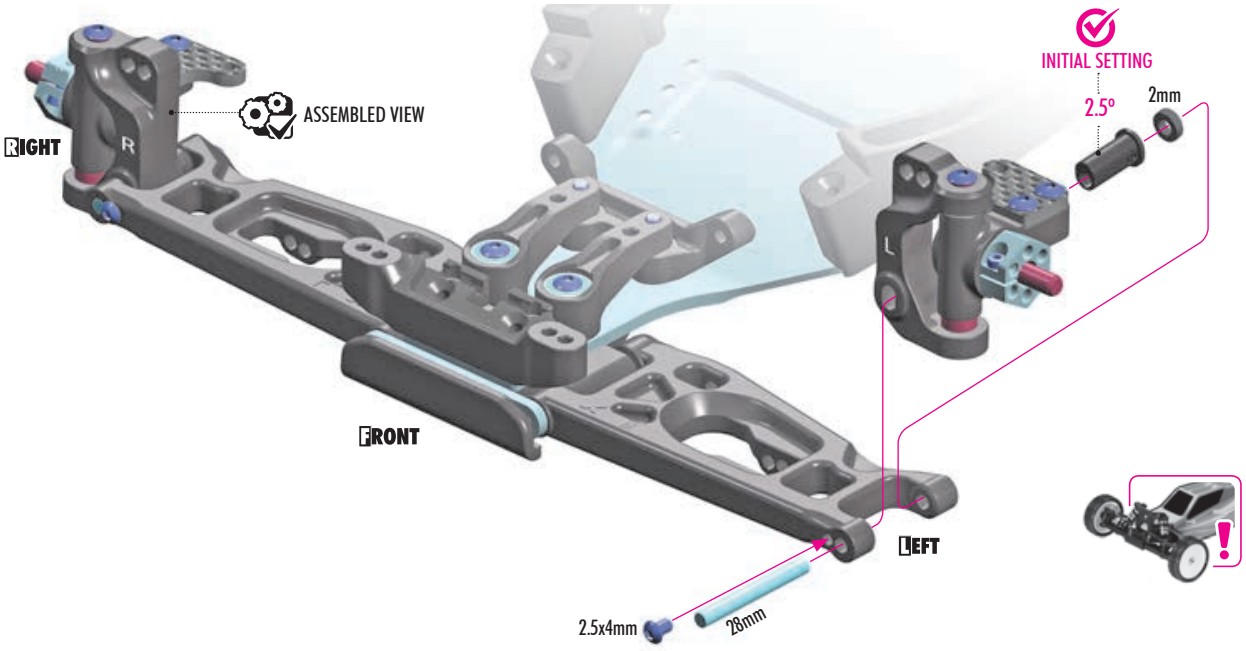


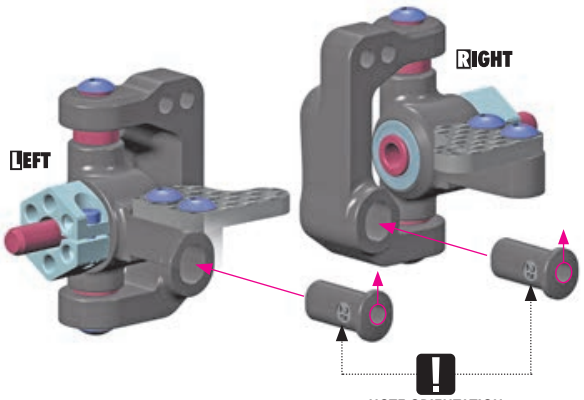
INITIAL SETTING
BOTTOM = LONGER bushing
TOP = SHORTER bushing
Recommended for smooth tracks to gain more steering.



2x 306219 SHIM 3x6x2

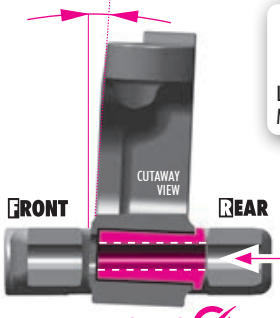
2x 902254 SH M2.5x4





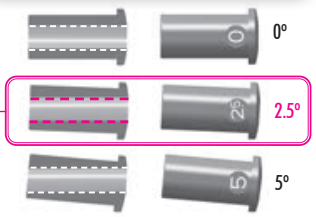
NOTE ORIENTATION
Symbol (2.5) must be oriented on LEFT side on both caster blocks.

Chassis KICK-UP 22° + Steering block CASTER 2.5° = Total CASTER 24.5°



INITIAL SETTING

CASTER ADJUSTMENT
LESS CASTER = increased steering off-power
MORE CASTER = less steering off-power

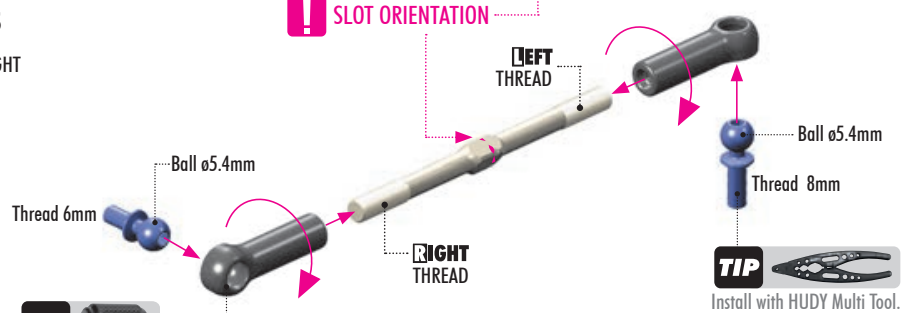




SLOT ORIENTATION

ROLL CENTER LINKS

2x L=R LEFT = RIGHT



TIP Install with HUDY Ball Joint Wrench

TIP Install with HUDY Multi Tool.

OPTION

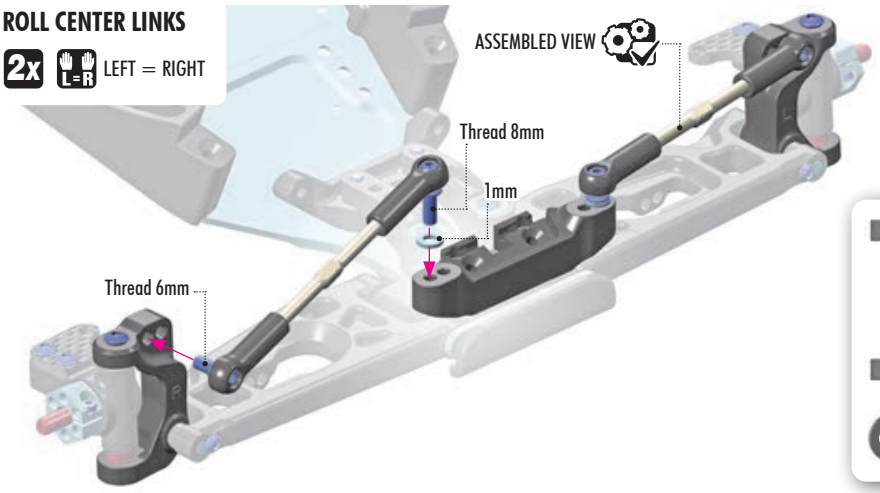
HUDY TITAN BALL ENDS 5.4mm		
#990016	6mm LONG	OPTION
#990018	8mm LONG	OPTION

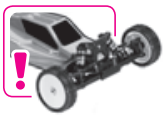


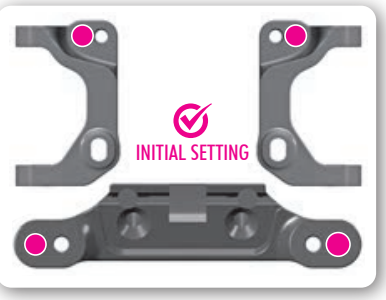
2x 303122 SHIM 3x6x1

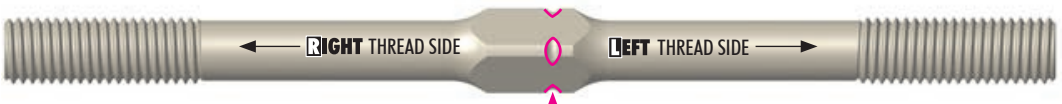
ROLL CENTER LINKS

2x L=R LEFT = RIGHT





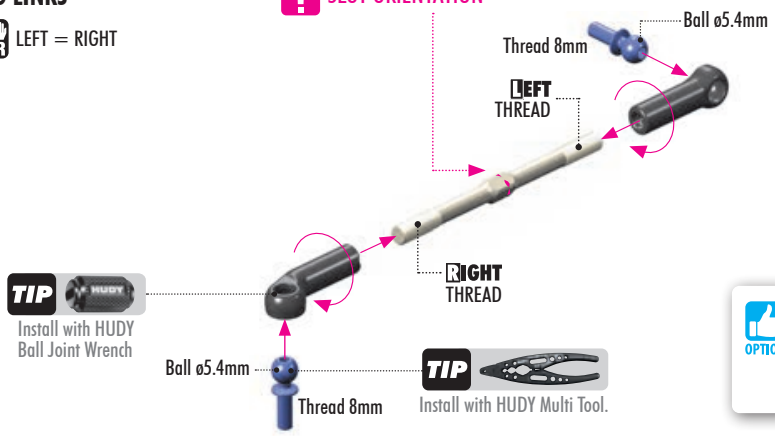




STEERING LINKS

2x L=R LEFT = RIGHT





OPTION	HUDY TITAN BALL ENDS 5.4mm		
	#990016	6mm LONG	OPTION
	#990018	8mm LONG	OPTION



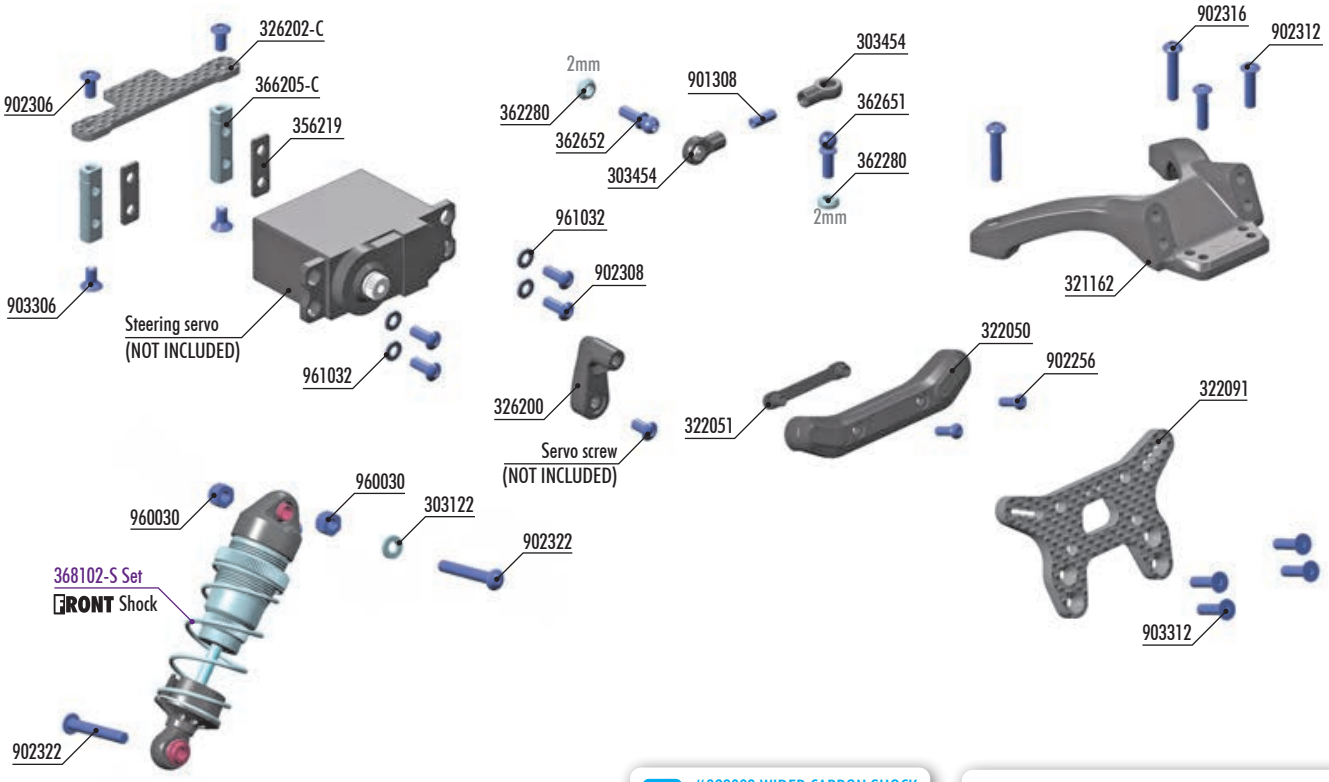
4x 303122 SHIM 3x6x1

2x 960030 NUT M3

STEERING LINKS

2x L=R LEFT = RIGHT







OPTION

HUDY TITAN BALL ENDS 4.9mm		
#990008	8mm Thread	OPTION
#990010	10mm Thread	OPTION



OPTION #322093 WIDER CARBON SHOCK TOWER BRIDGE -UP. DECK 2 DOTS



OPTION #293421 ALU CLAMP STEER. SERVO HORN EXTENDED 8mm - 23T

OPTION #293422 ALU CLAMP STEER. SERVO HORN EXTENDED 8mm - 25T



Alu clamp steer. servo horn increase reliability & strength.

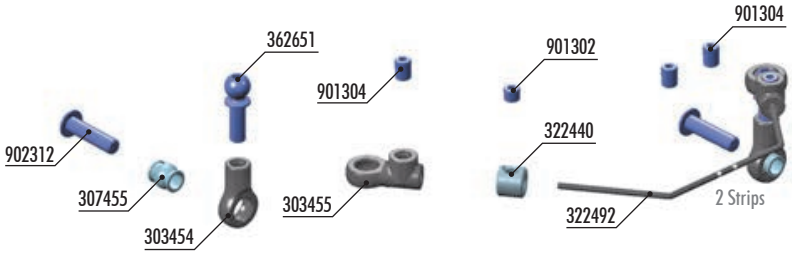
BAG 08

303122	ALU SHIM 3x6x1.0mm (10)
303454	BALL JOINT 4.9mm - OPEN (4)
321162	COMP. FRONT BRIDGE UPPER DECK
322050	COMP. FRONT SHOCK TOWER PROTECTOR
322051	COMP. FRONT SHOCK TOWER INSERT (2)
322091	CARBON SHOCK TOWER - 2 DOTS - FRONT
326200	COMP. STEERING SERVO ARMS - EXT. - 23T+25T
326202-C	ALU SERVO HOLDERS & CARBON BRIDGE
356219	COMP. SERVO SHIMS 1.0, 1.5 & 2.5mm (2+2+2)
362280	ALU CONICAL SHIM 3x6x2.0mm (10)
362651	BALL END 4.9mm WITH THREAD 8mm (2)
362652	BALL END 4.9mm WITH THREAD 10mm (2)
366205-C	ALU SERVO MOUNT 22mm
901308	HEX SCREW SB M3x8 (10)
902256	HEX SCREW SH M2.5x6 (10)
902306	HEX SCREW SH M3x6 (10)
902308	HEX SCREW SH M3x8 (10)
902312	HEX SCREW SH M3x12 (10)
902316	HEX SCREW SH M3x16 (10)
902322	HEX SCREW SH M3x22 (10)
903306	HEX SCREW SFH M3x6 (10)
903312	HEX SCREW SFH M3x12 (10)
960030	NUT M3 (10)
961032	WASHER S 3.2 (10)

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

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

CARPET



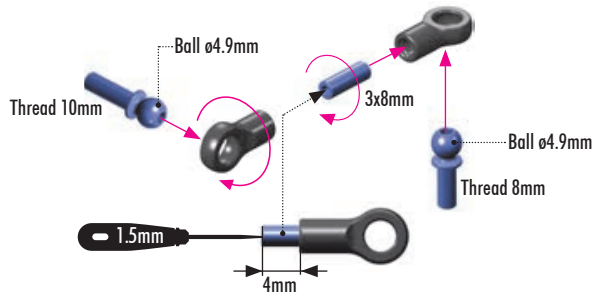
CARPET BAG 05.1

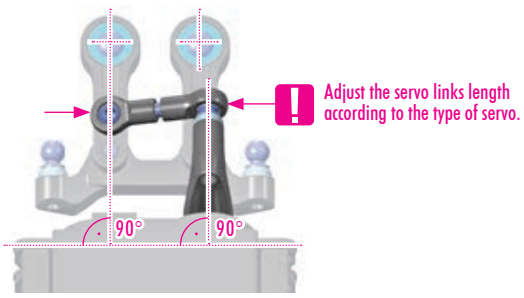
XB2 FRONT ANTI-ROLL BAR SET

303454	COMPOSITE BALL JOINT 4.9mm - OPEN (4)
303455	COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9mm (4)
307455	PIVOT BALL 4.9mm DOUBLE BEVEL SHOULDERS (10)
322440	ALU ANTI-ROLL BAR COLLAR
322492	ANTI-ROLL BAR FRONT FOR BRIDGE UPPER DECK - 1.2mm
362651	BALL ENDS 4.9mm WITH THREAD 8mm (2)
901302	HEX SCREW SB M3x2.5 (10)
901304	HEX SCREW SB M3x4 (10)
902312	HEX SCREW SH M3x12 (10)

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

1x 901308 SB M3x8



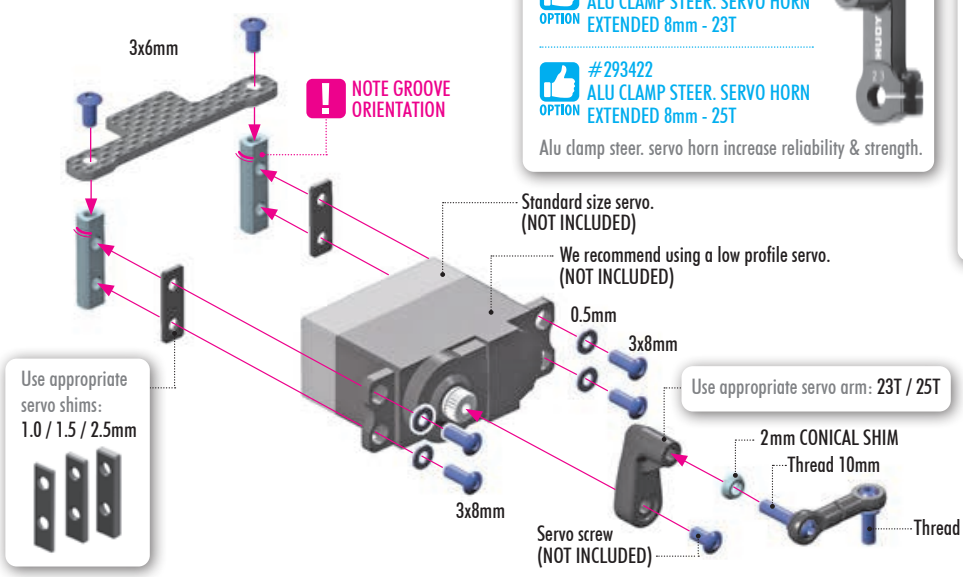


1x 362280 CON. SHIM 3x6x2

2x 902306 SH M3x6

4x 902308 SH M3x8

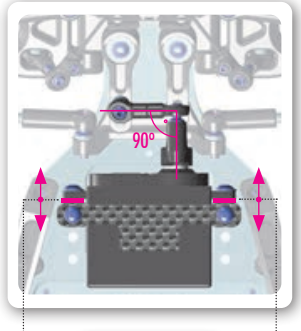
4x 961032 SHIM S 3.2



OPTION #293421 ALU CLAMP STEER. SERVO HORN EXTENDED 8mm - 23T

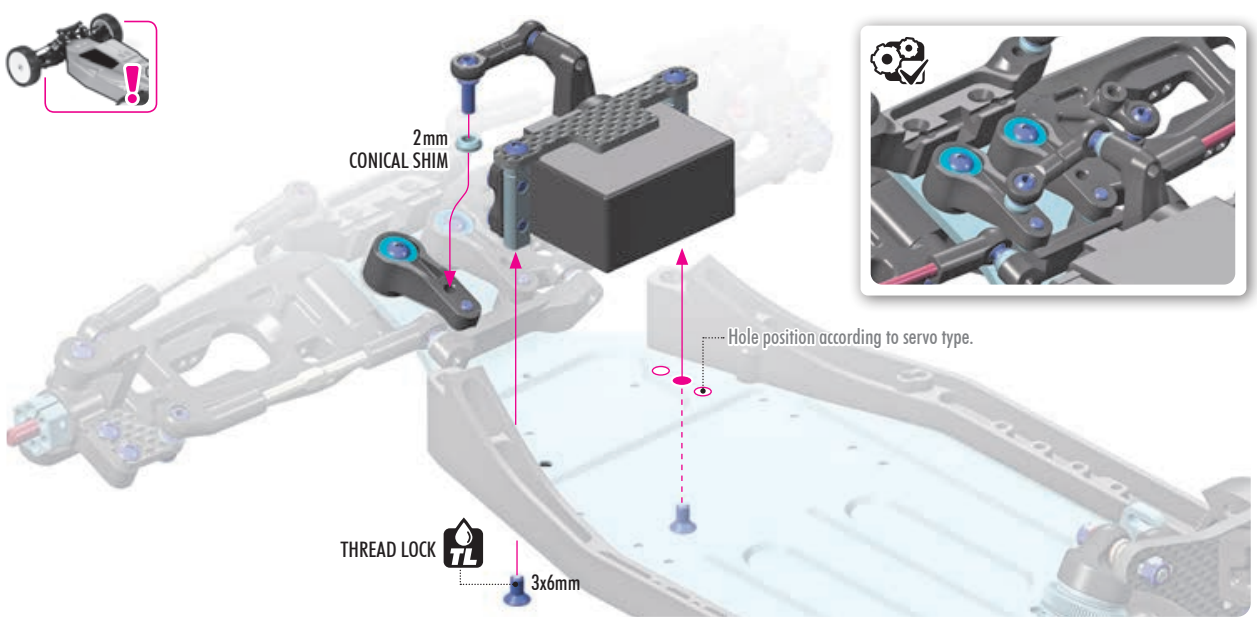
OPTION #293422 ALU CLAMP STEER. SERVO HORN EXTENDED 8mm - 25T

Alu clamp steer. servo horn increase reliability & strength.



1x 362280 CON. SHIM 3x6x2

2x 903306 SFH M3x6

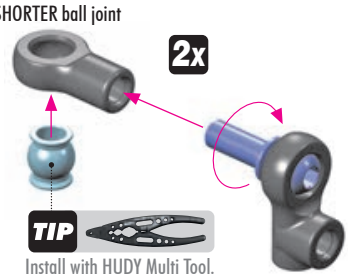


BAG 05.1

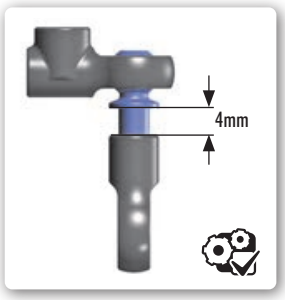
CARPET Step only for Carpet edition.



SHORTER ball joint

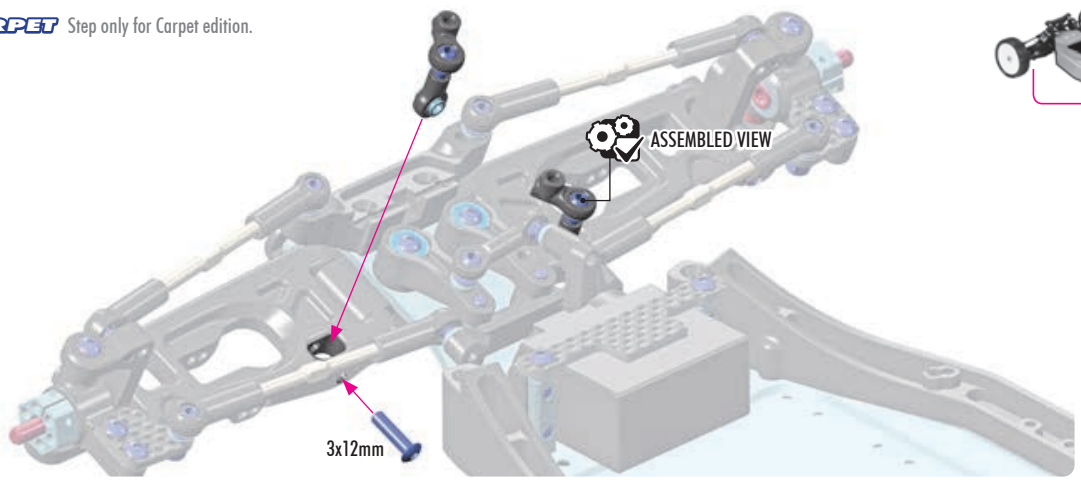


TIP Install with HUDY Multi Tool.



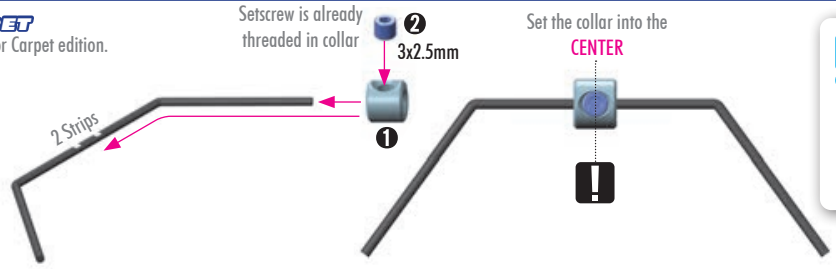
2x 902312 SH M3x12

CARPET Step only for Carpet edition.



1x 901302 SB M3x2.5

CARPET Step only for Carpet edition.

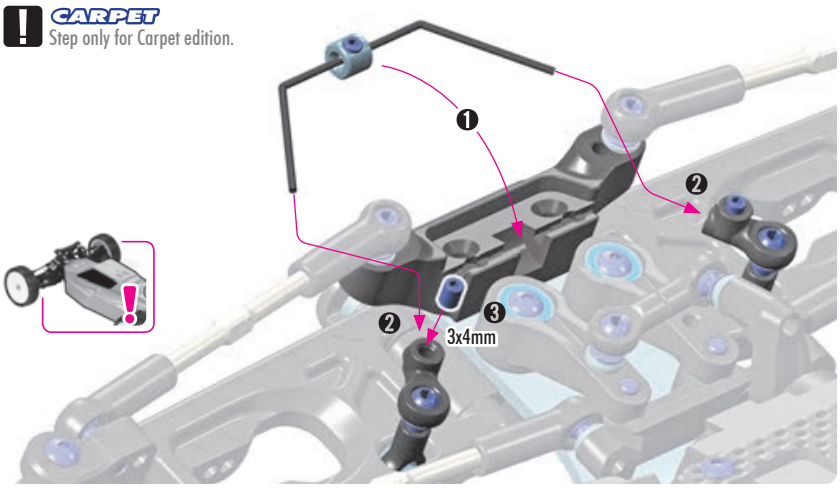


OPTION

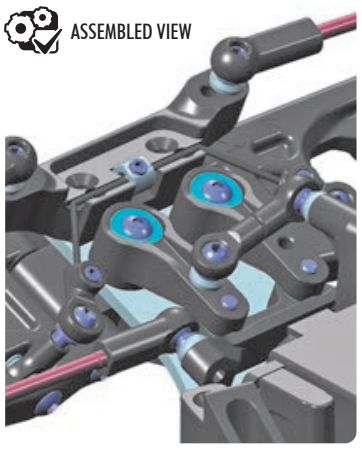
FRONT ANTI-ROLL BARS		
#322489	0.8mm	OPTION
#322490	1.0mm	OPTION
#322491	1.1mm	OPTION
#322492	1.2mm	INCLUDED
#322493	1.3mm	OPTION

2x 901304 SB M3x4

CARPET Step only for Carpet edition.



ASSEMBLED VIEW

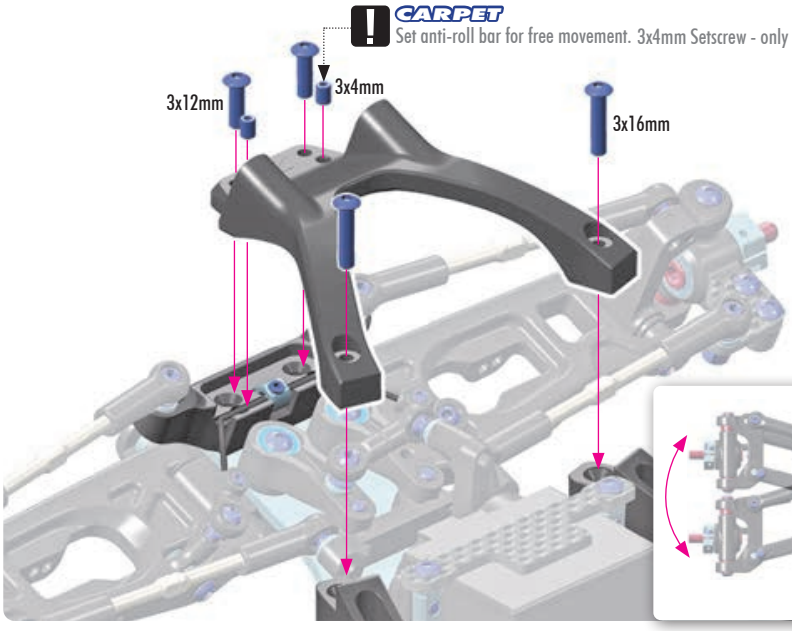


2x 901304 SB M3x4

2x 902312 SH M3x12

2x 902316 SH M3x16

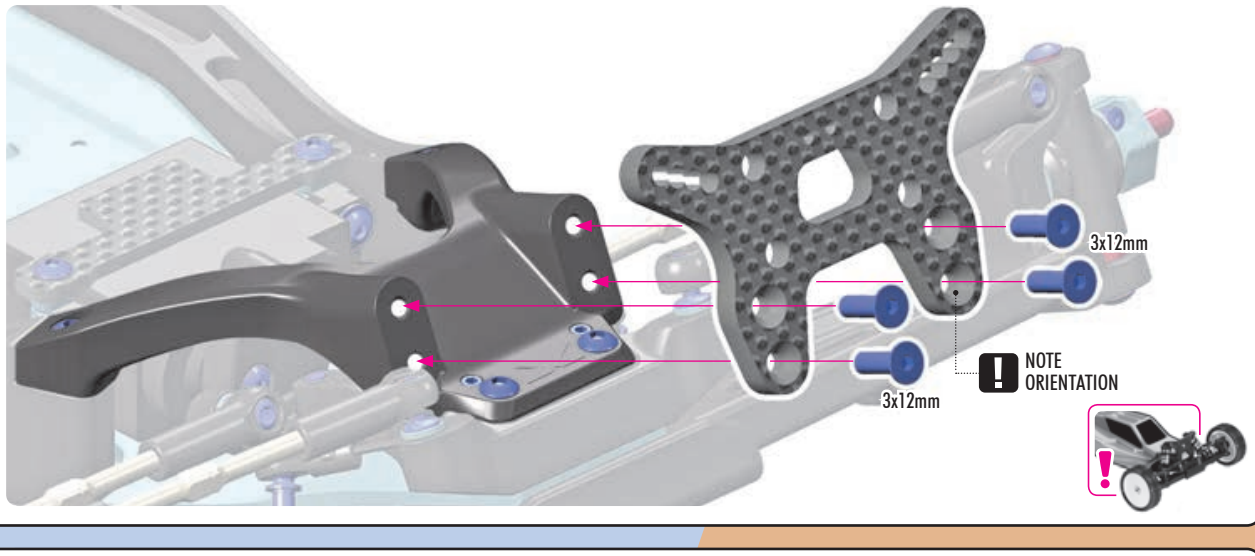
CARPET Set anti-roll bar for free movement. 3x4mm Setscrew - only for Carpet edition.





CHECK FOR FREE MOVEMENT

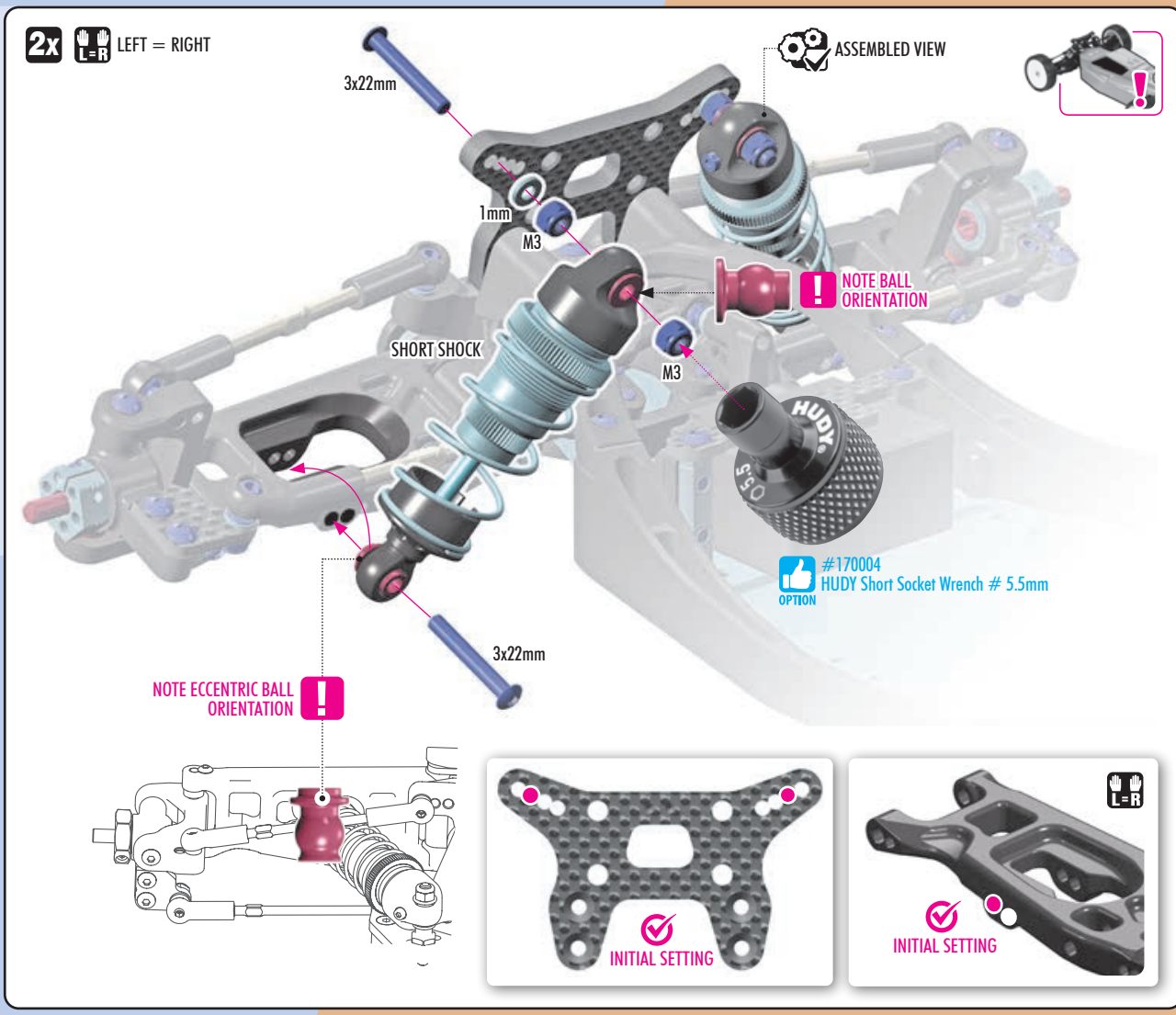
4x 903312
SFH M3x12



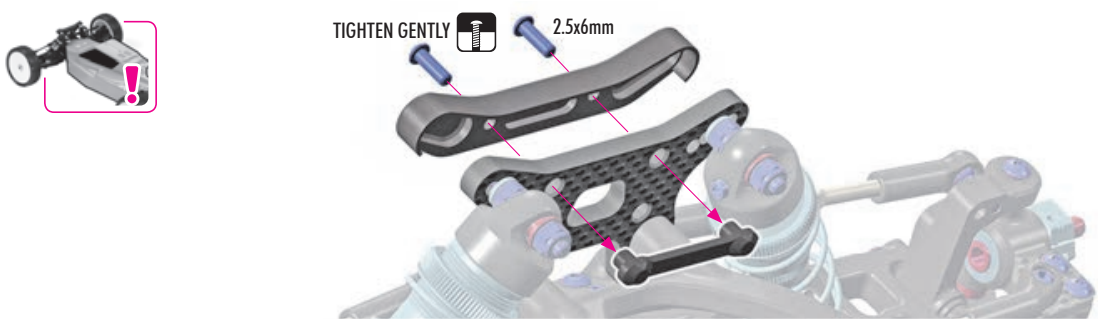
2x 303122
SHIM 3x6x1

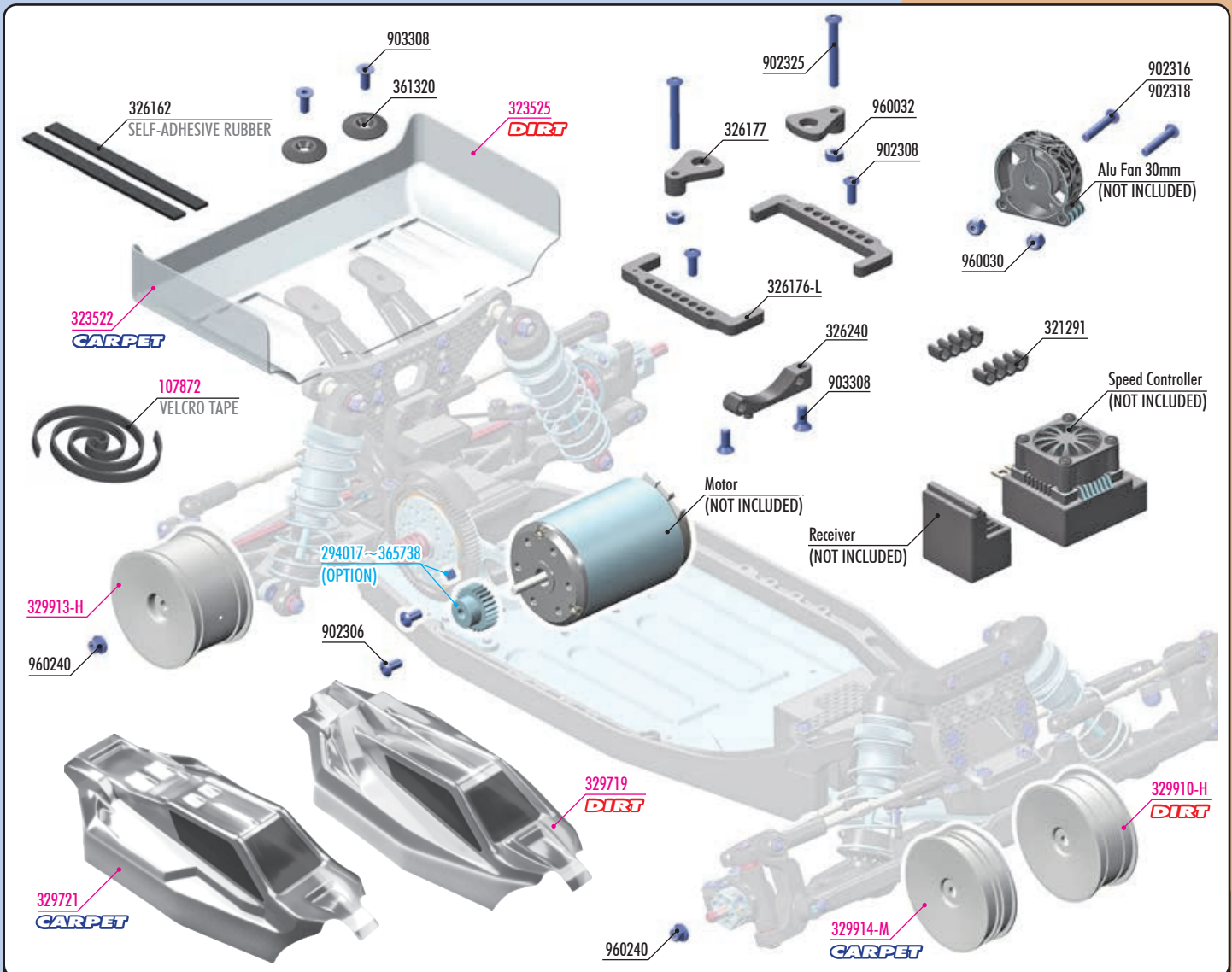
4x 902322
SH M3x22

4x 960030
NUT M3



2x 902256
SH M2.5x6





BAG 08

294017～365738 PINION GEAR HARDCOATED 17～38T/48P (OPTION)
321291 COMPOSITE 5-WIRES HOLDER - SET
326162 SELF-ADHESIVE RUBBER 1.5x6.5x155mm (2)
326176-L COMPOSITE LIPO BATTERY HOLDER - LONG (2+2)
326177 COMPOSITE BATTERY CLAMP (2)
326240 COMPOSITE FAN HOLDER
361320 BODY MOUNT, BATTERY MOUNT - V2 & WING SHIM (2)

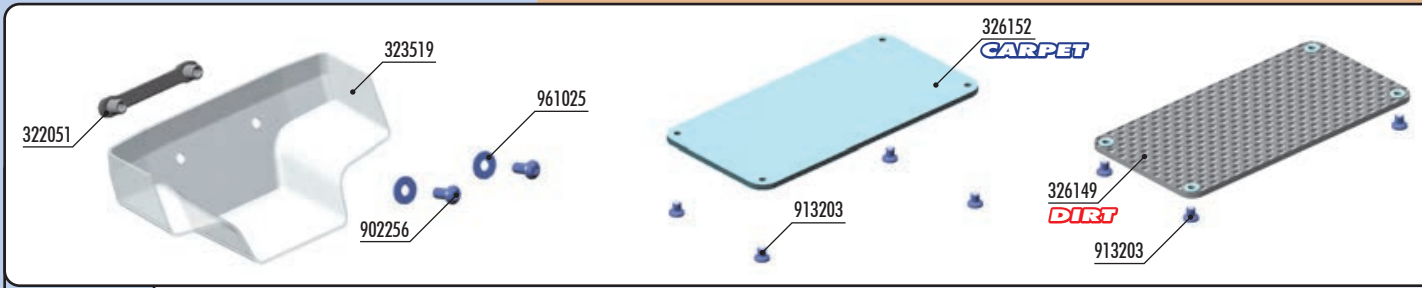
902306 HEX SCREW SH M3x6 (10)
902308 HEX SCREW SH M3x8 (10)
902316 HEX SCREW SH M3x16 (10)
902318 HEX SCREW SH M3x18 (10)
902325 HEX SCREW SH M3x25 (10)
903308 HEX SCREW SFH M3x8 (10)
960030 NUT M3 (10)
960032 NUT M3 (10)
960240 NUT M4 WITH SERRATED FLANGE (10)

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

CARPET
323522 LEXAN REAR WING - LUSH
329721 BODY FOR 1/10 2WD OFF-ROAD BUGGY - EPSILON 2C - LIGHT
329914-M 1/10 OFF-ROAD WHEEL - 2WD – FRONT – NARROW – WHITE (2)

DIRT
323525 LEXAN REAR WING - LUSH - WIDE
329719 BODY FOR 1/10 2WD OFF-ROAD BUGGY - EPSILON 2D - LIGHT
329910-H 1/10 OFF-ROAD WHEEL - 2WD – FRONT – WHITE (2)

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



BAG 08.1

XB2 FINAL ASSEMBLY SET

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

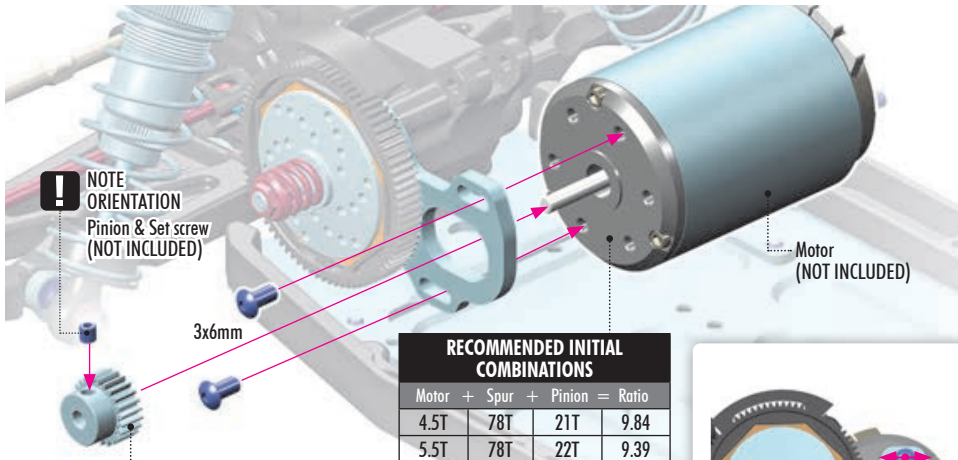
902256 HEX SCREW SH M2.5x6 (10)
913203 HEX SCREW 110° SFH M2x3 (10)
961025 WASHER S 2.5 (10)

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

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

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

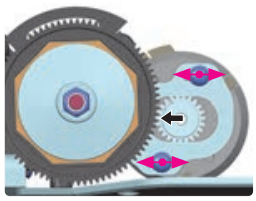
2x 902306 SH M3x6



GEAR RATIO Final Drive Ratio

78 (Spur) : X (Pinion) x 2.65 (IGR) = FDR

RECOMMENDED INITIAL COMBINATIONS			
Motor + Spur + Pinion = Ratio			
4.5T	78T	21T	9.84
5.5T	78T	22T	9.39
6.5T	78T	23T	8.98
7.5T	78T	24T	8.61
8.5T	78T	25T	8.26
13.5T	72T	28T	6.81
17.5T	72T	32T	5.96

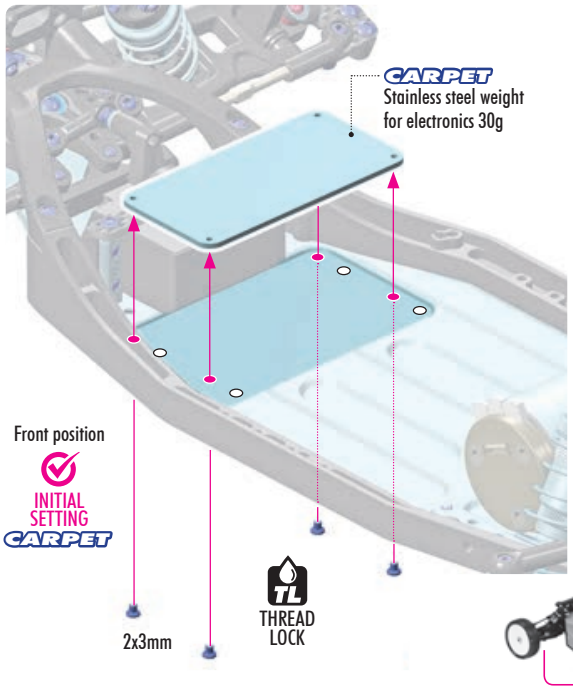


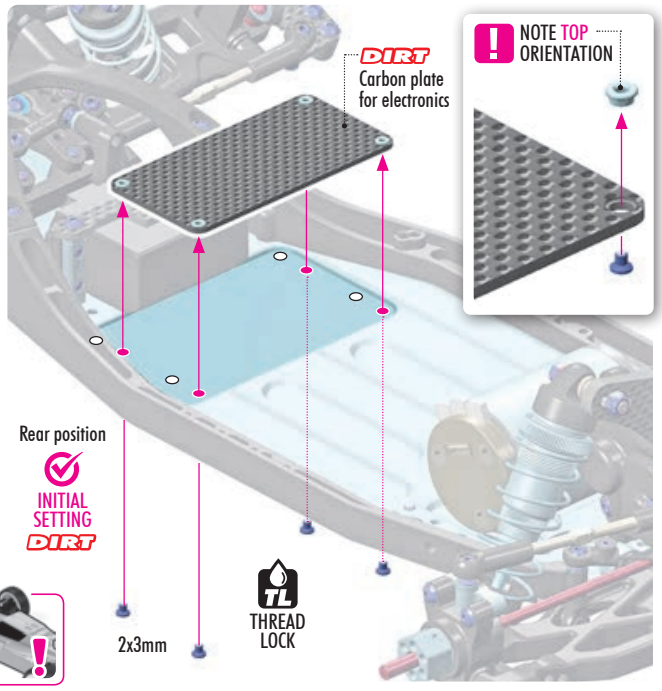
GEAR MESH

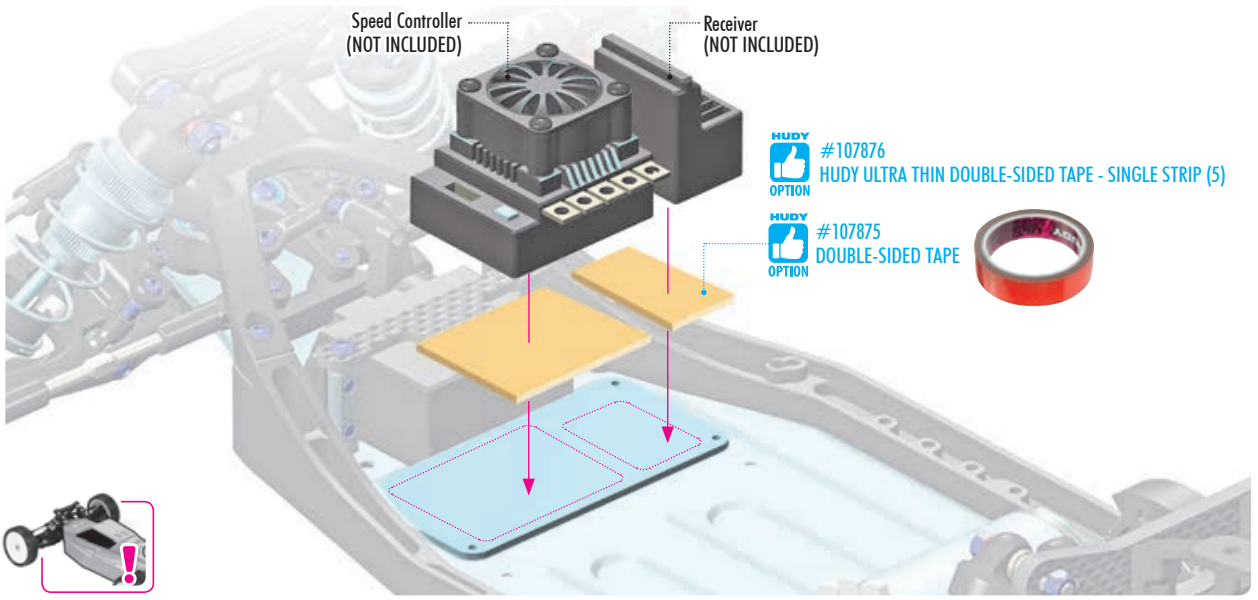
Adjust the motor so the pinion meshes with the spur gear properly. Make sure the gear mesh is NOT too tight.

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

4x 913203 SFH M2x3







2x 902308 SH M3x8

2x 902325 SH M3x25

2x 960032 NUT M3

NOTE ORIENTATION for LOW BATTERY PACK

To ensure correct functioning of the battery holder, DO NOT overtighten the screw; the holder must be able to move.

NOTE ORIENTATION for STANDARD BATTERY PACK

DO NOT overtighten the screw to avoid side guard damage.

OPTION #326181 STAINLESS STEEL BATTERY WEIGHT 35g



Battery (NOT INCLUDED)

3x25mm

ORIENTATION FOR STANDARD BATTERY PACK

ORIENTATION FOR LOW BATTERY PACK

M3 Black nut

3x8mm

HEIGHT ADJUSTMENT
1 turn = 0.5mm

ASSEMBLED VIEW

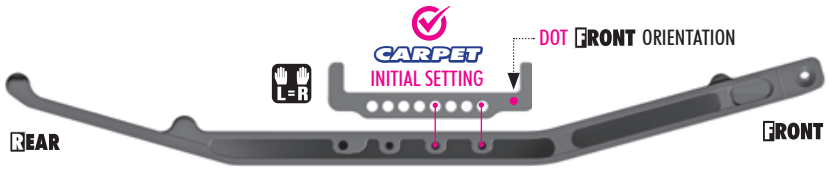
OPTION #326178 CARBON BATTERY BACKSTOP 3.5mm - LOWER (2)



BATTERY POSITION SETTING

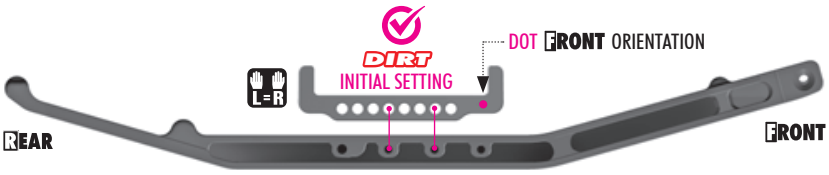
CARPET

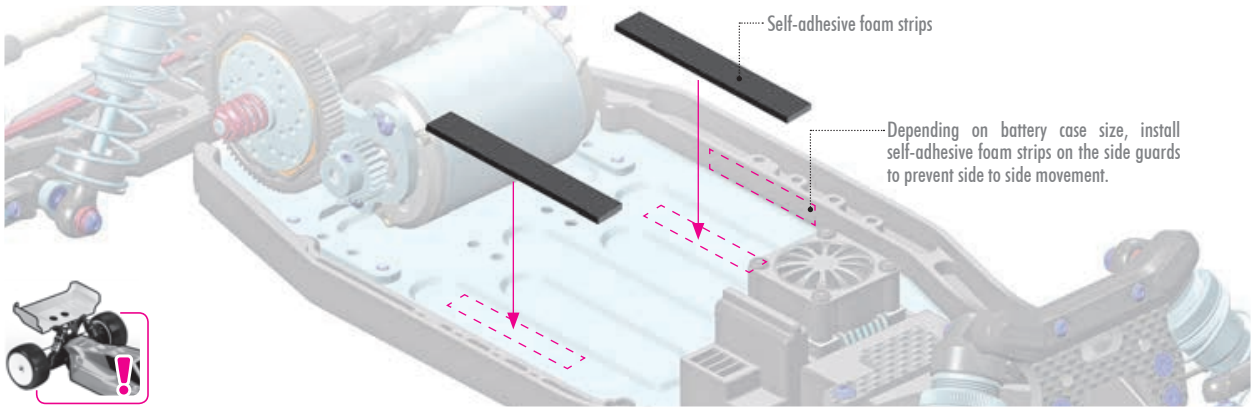
For INITIAL SETTING place battery in maximum FORWARD location.



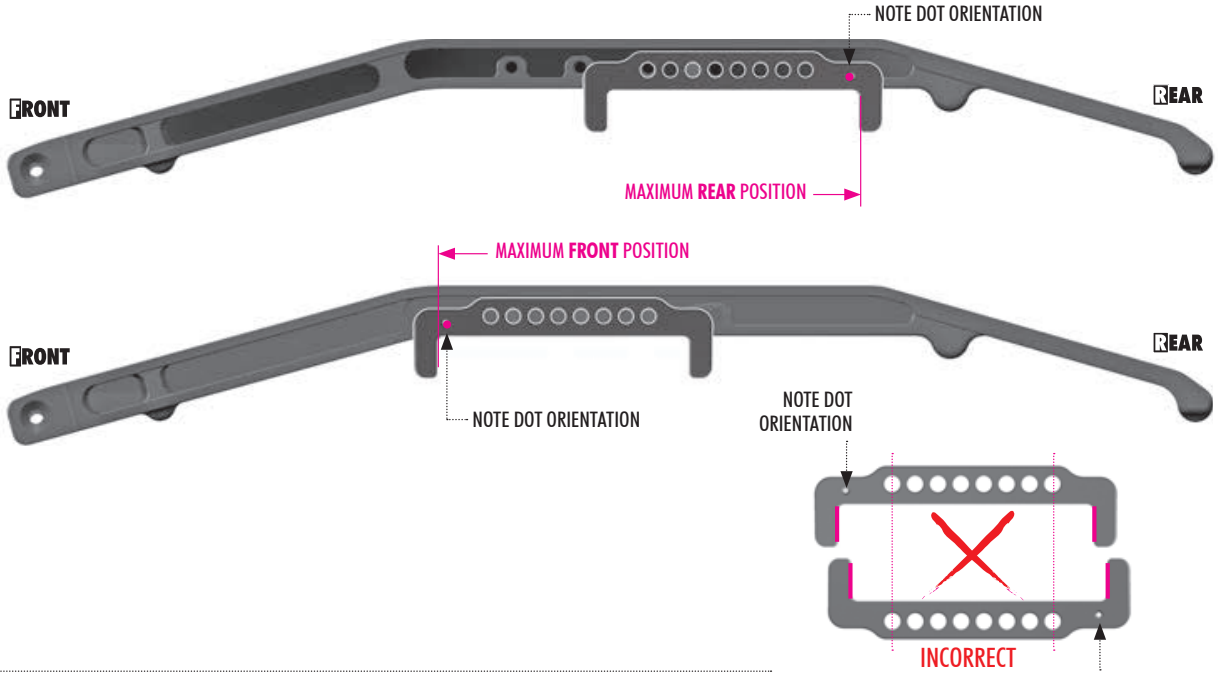
DIRT

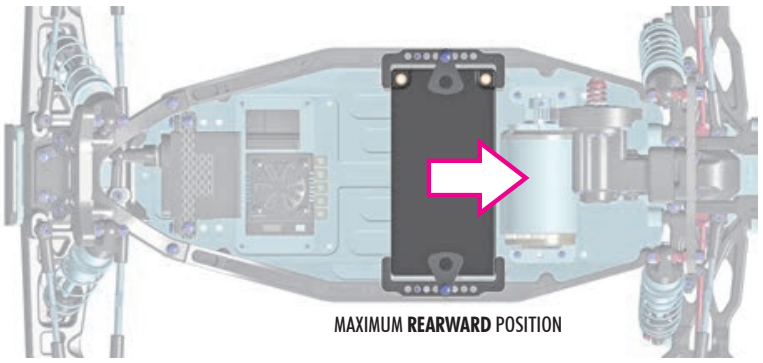
For INITIAL SETTING place battery in maximum REARWARD location.

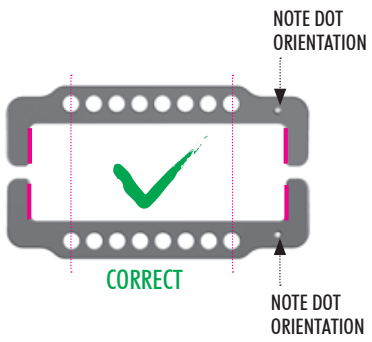


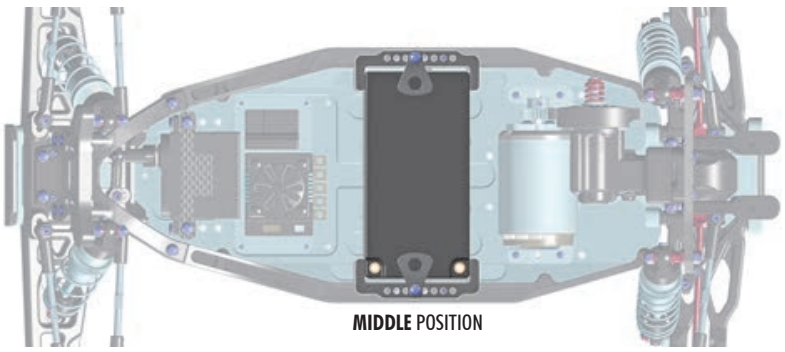


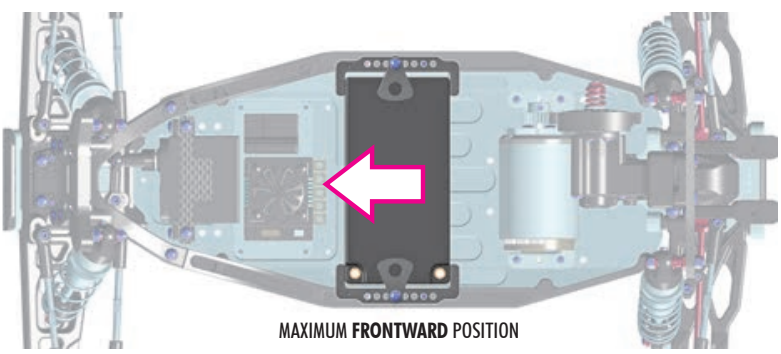
BATTERY WEIGHT BALANCE ADJUSTMENT









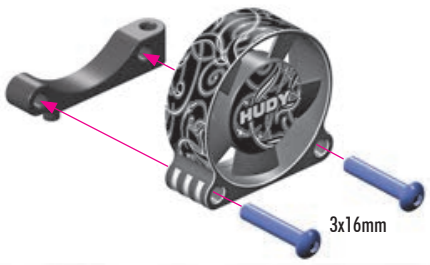


2x 902316 SH M3x16

1x 903308 SFH M3x8

ALTERNATIVE 1

FAN ASSEMBLY BETWEEN BATTERY & MOTOR



FAN (NOT INCLUDED)

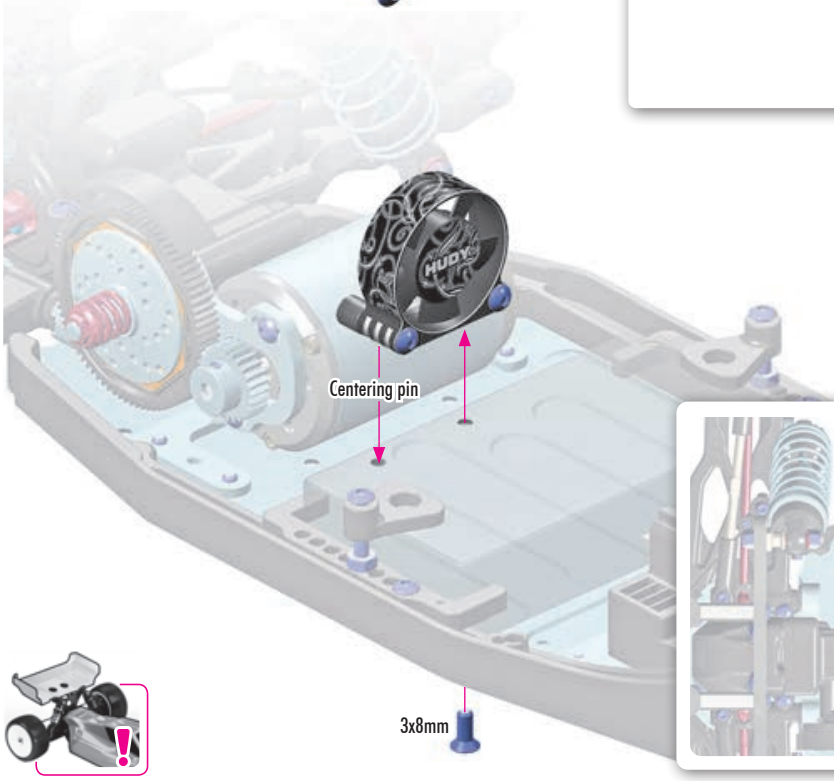


OPTION #293101
HUDY ALU RC FAN 30MM
SIDE MOUNT 2 HOLE

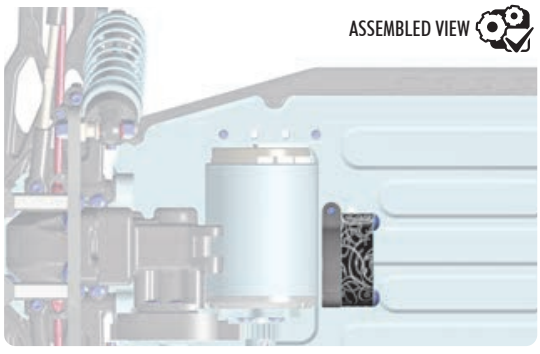


OPTION #293112
HUDY BRUSHLESS RC FAN 30MM
WITH INTERNAL SOLDERING TABS

OPTION #293110
HUDY BRUSHLESS RC FAN 30MM
WITH EXTERNAL SOLDERING TABS



ASSEMBLED VIEW

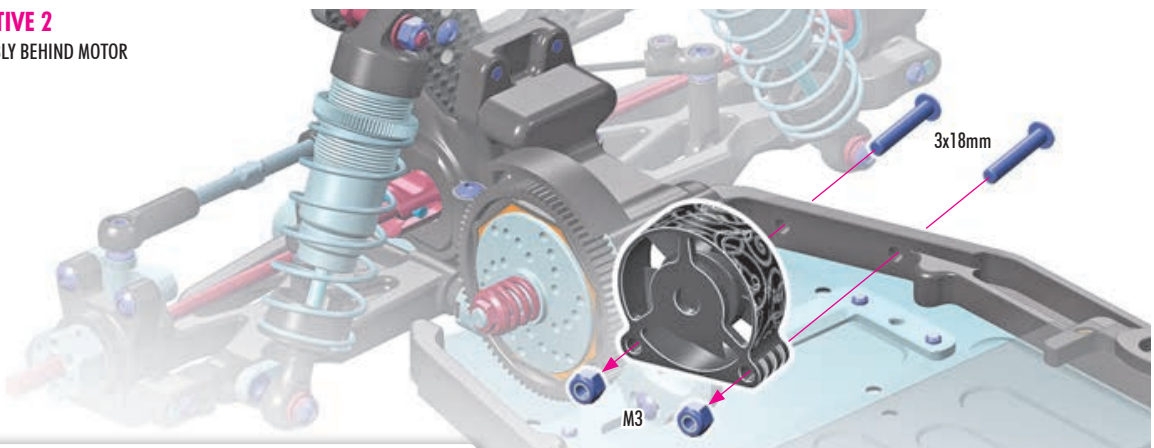


2x 902318 SH M3x18

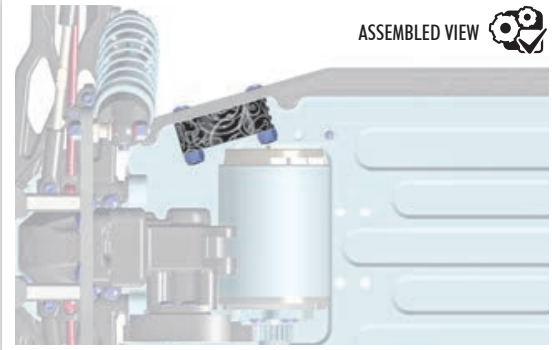
2x 960030 NUT M3

ALTERNATIVE 2

FAN ASSEMBLY BEHIND MOTOR

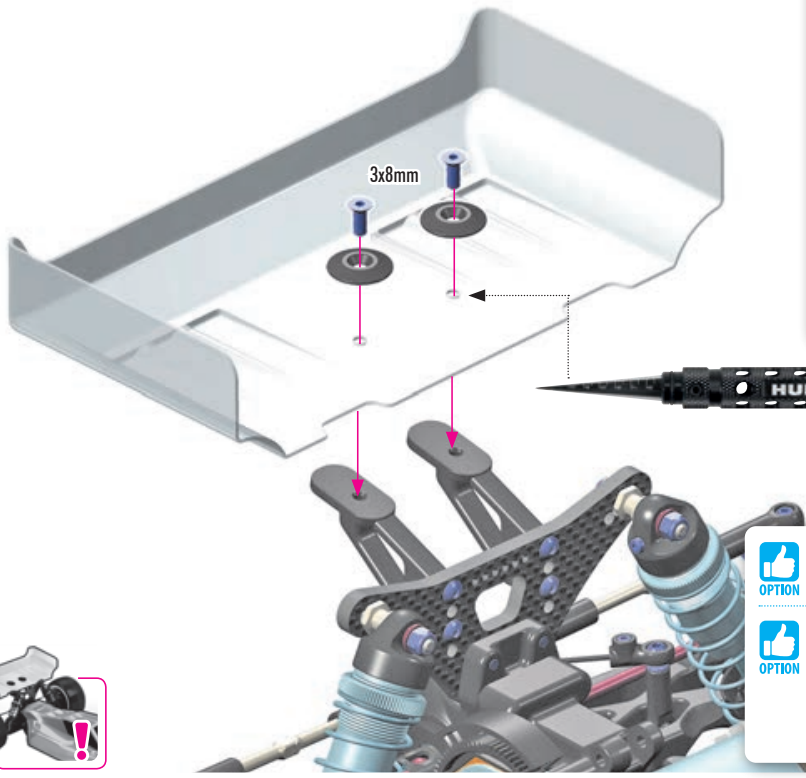


ASSEMBLED VIEW





2x 903308 SFH M3x8



XRAY LEXAN REAR WINGS			
#323510	THIN		OPTION
#323511	THICK		OPTION
#323513	THIN	RANK	OPTION
#323517	THIN	TEC	OPTION
#323522	THIN	LUSH	INCLUDED
#323523	THICK	LUSH	OPTION
#323525	THIN	LUSH WIDE	INCLUDED
#323526	THICK	LUSH WIDE	OPTION

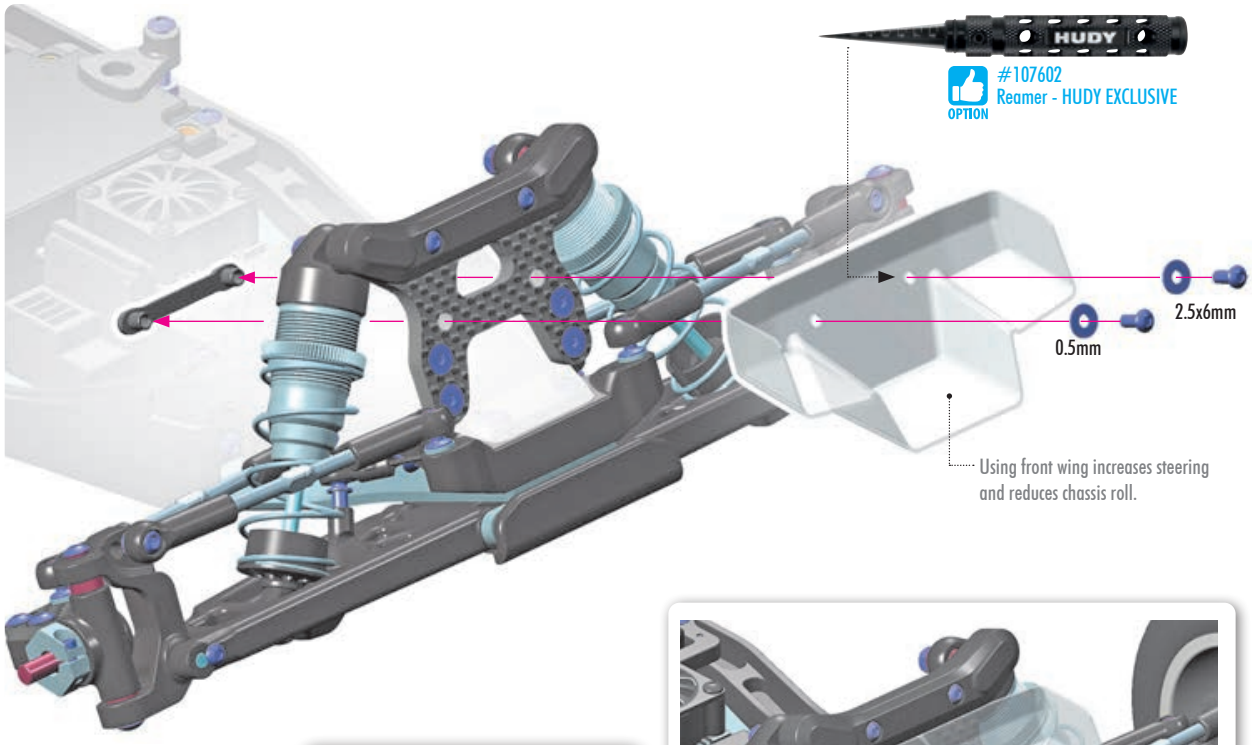
OPTION #107602 Reamer - HUDY EXCLUSIVE

OPTION #323560 CARBON REAR WING SHIM

REAR WING SHIMS		
#293561	SILVER	OPTION
#293561-O	ORANGE	OPTION
#293561-K	BLACK	OPTION

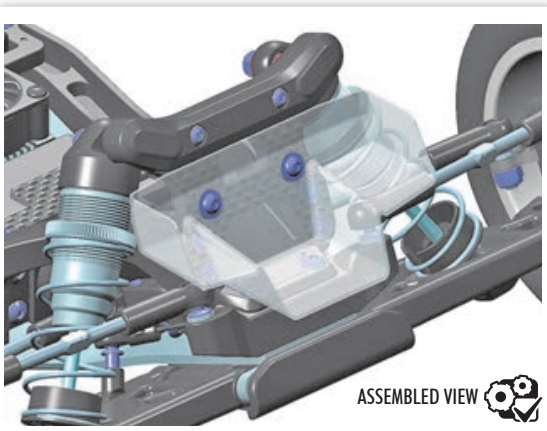
2x 902256 SH M2.5x6

2x 961025 S 2.5



OPTION #107602 Reamer - HUDY EXCLUSIVE

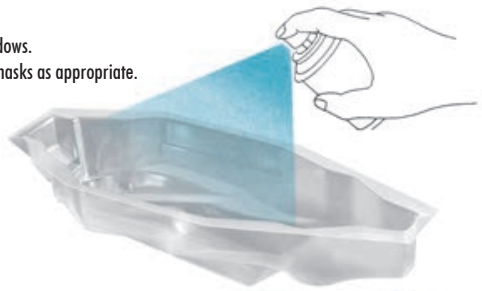
XRAY LEXAN FRONT WINGS		
#323518	WIDE	OPTION
#323519	WIDE-RIBBED	INCLUDED



❶ 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.

❷ Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.

❸ Mask all windows.
Apply paint masks as appropriate.



❹ Paint the body using paints formulated for polycarbonate bodies.

❺ When the paint is dry, remove the masking.

❻ Carefully cut out the body using appropriate scissors or cutting tools.

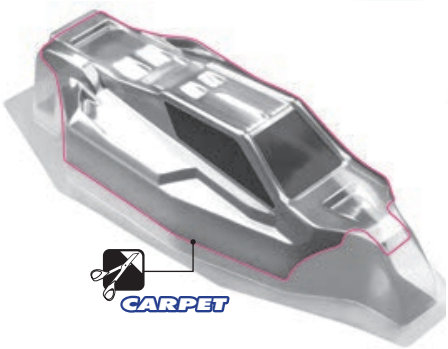
❼ When you have finished cutting, peel off the external protective films.

❽

OPTION

XRAY LEXAN BODY			
#329718	THICK	EPSILON 2D	OPTION
#329719	THIN	EPSILON 2DL	INCLUDED
#329720	THICK	EPSILON 2C	OPTION
#329721	THIN	EPSILON 2CL	INCLUDED

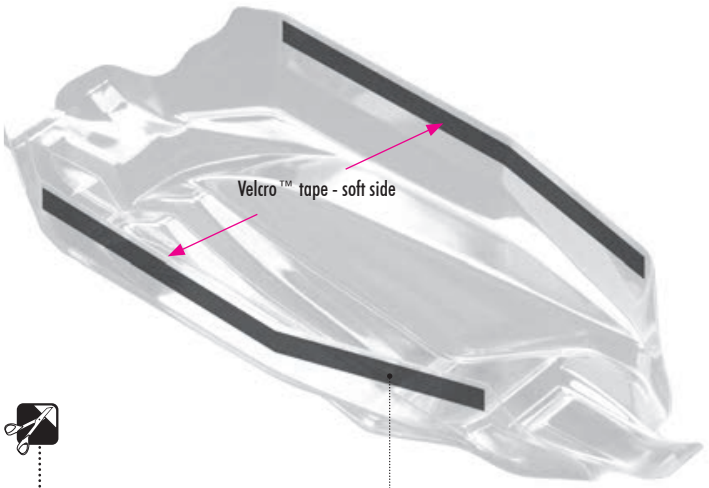


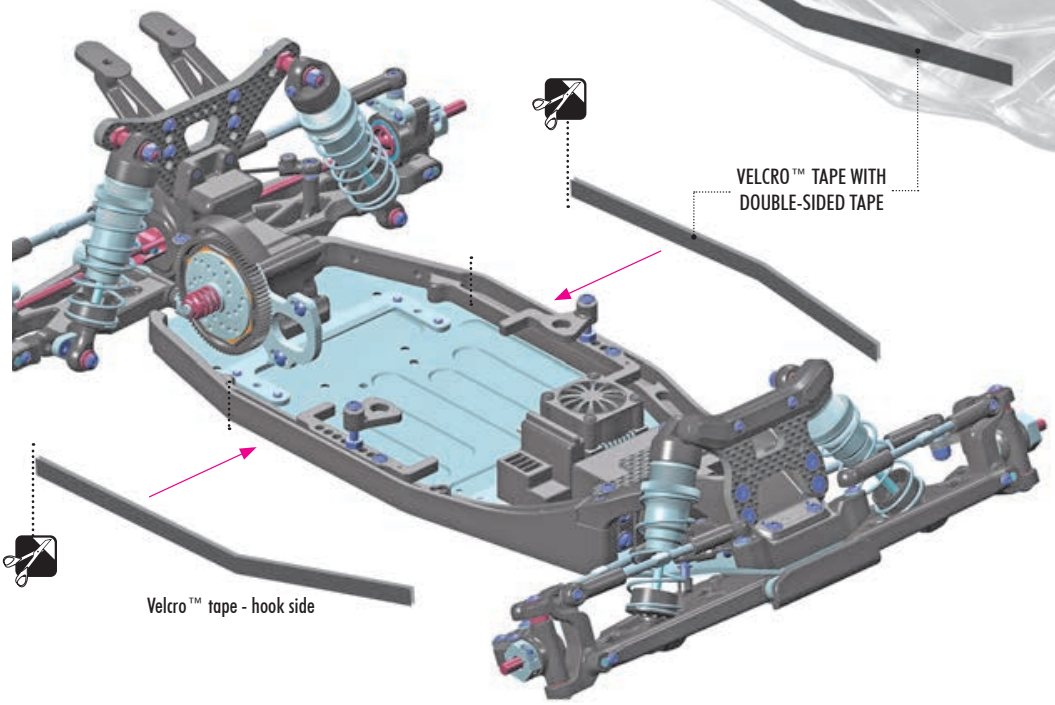




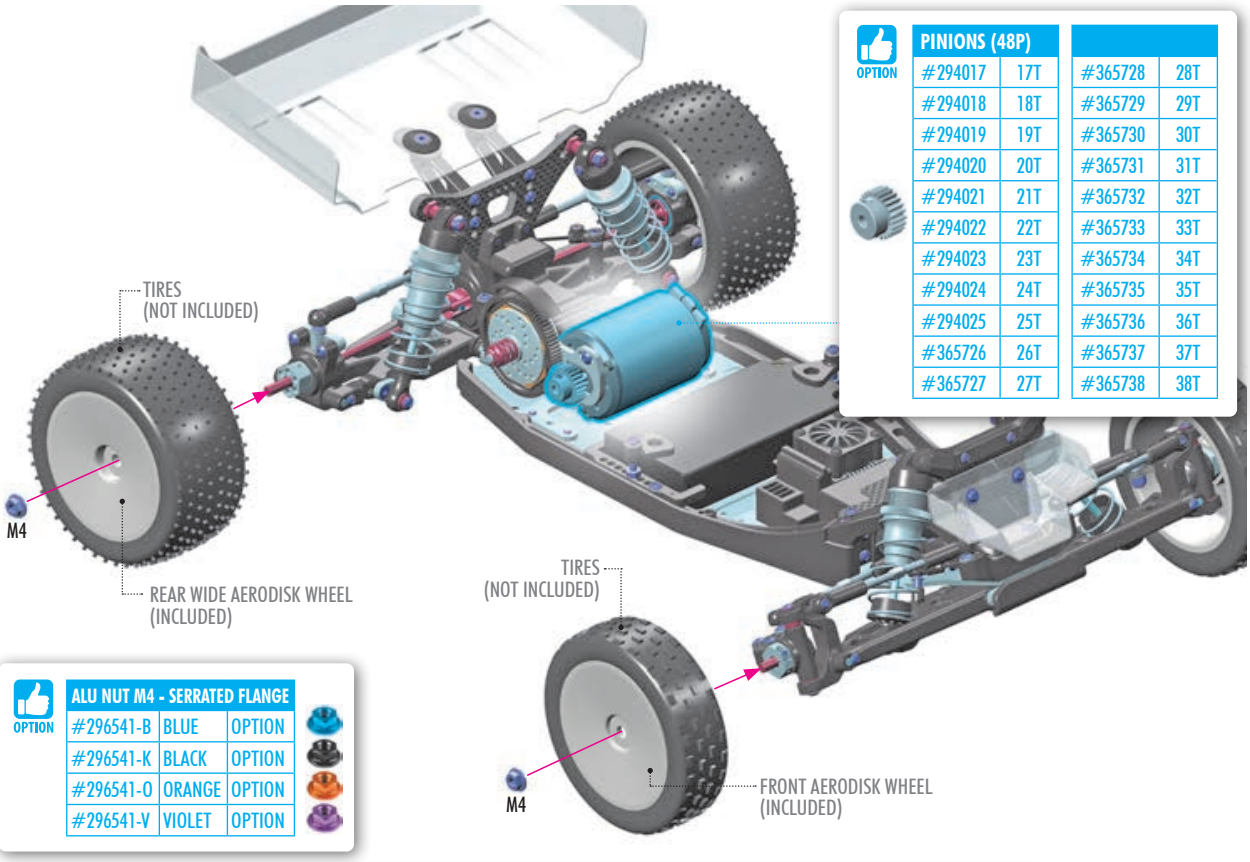
OPTION #106281 HUDY Body Fix 28g-1oz











OPTION

PINIONS (48P)			
#294017	17T	#365728	28T
#294018	18T	#365729	29T
#294019	19T	#365730	30T
#294020	20T	#365731	31T
#294021	21T	#365732	32T
#294022	22T	#365733	33T
#294023	23T	#365734	34T
#294024	24T	#365735	35T
#294025	25T	#365736	36T
#365726	26T	#365737	37T
#365727	27T	#365738	38T

OPTION

ALU NUT M4 - SERRATED FLANGE		
#296541-B	BLUE	OPTION
#296541-K	BLACK	OPTION
#296541-O	ORANGE	OPTION
#296541-V	VIOLET	OPTION

OPTION

XRAY FRONT AERODISK WHEELS				
#329900-M	MEDIUM	WHITE	10pcs	OPTION
#329900-H	HARD	WHITE	10pcs	OPTION
#329900-Y	HARD	YELLOW	10pcs	OPTION
#329904-M	MEDIUM	SLIM WHITE	10pcs	OPTION

OPTION

XRAY FRONT AERODISK WHEELS				
#329910-M	MEDIUM	WHITE	2pcs	OPTION
#329910-H	HARD	WHITE	2pcs	INCLUDED
#329910-Y	HARD	YELLOW	2pcs	OPTION
#329914-M	MEDIUM	SLIM WHITE	2pcs	INCLUDED



OPTION

XRAY REAR AERODISK WHEELS				
#329901-H	HARD	WHITE	10pcs	OPTION

OPTION

XRAY REAR AERODISK WHEELS				
#329913-H	HARD	WHITE	2pcs	INCLUDED

HUDY FRONT & REAR AERODISK WHEELS

OPTION

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

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

HUDY FRONT & REAR AERODISK WHEELS

OPTION

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

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



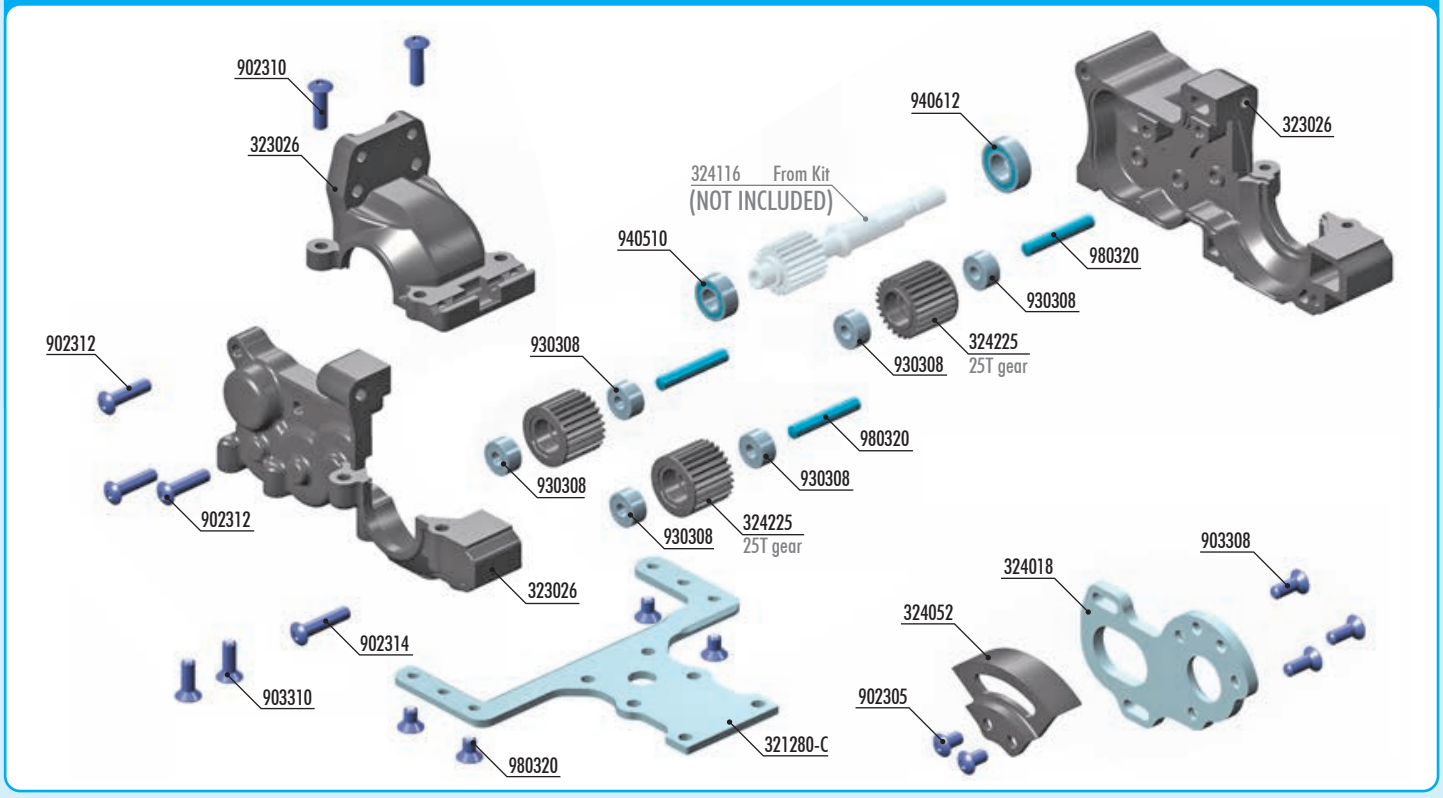
OPTION

#209200
HUDY CHASSIS PROTECTOR VINYL STICKER 360x125mm



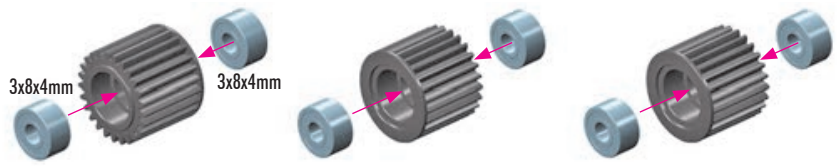
XRAY TUNING PARTS - ASSEMBLY DETAILS
(NOT INCLUDED)

#320905-C
OPTION **XB2 5G GEAR BOX CONVERSION SET**



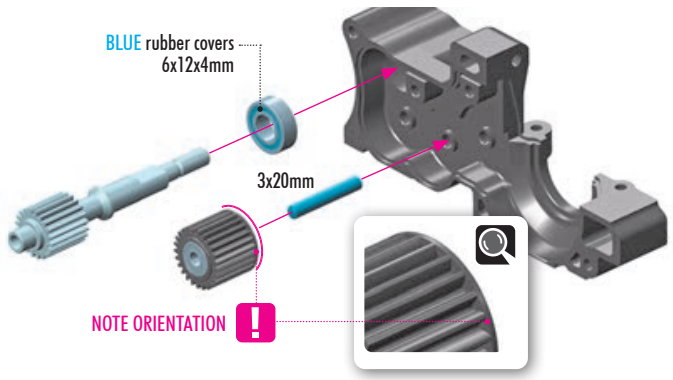
6x 930308
BB 3x8x4

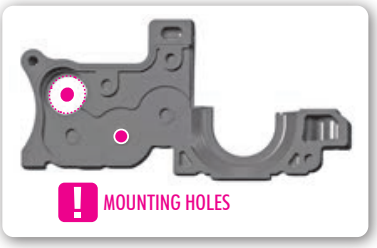
3x



1x 940612
BB 6x12x4

1x 980320
P 3x20



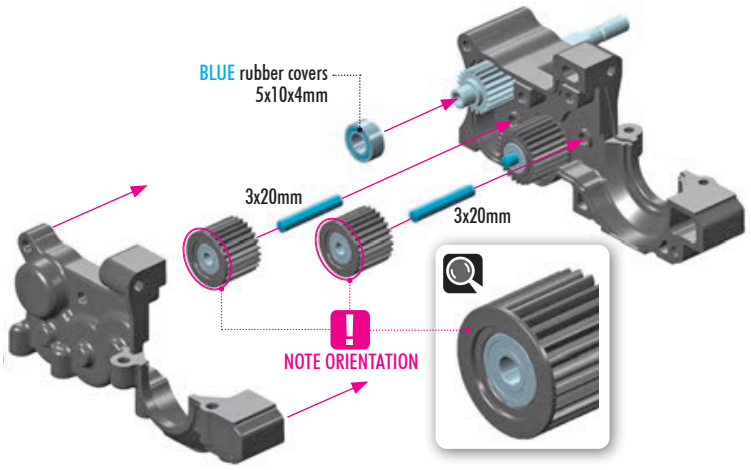


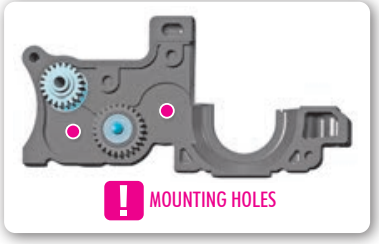
OPTION #323026-G
COMPOSITE 5G GEAR BOX - GRAPHITE - SET



1x 940510
BB 5x10x4

2x 980320
P 3x20



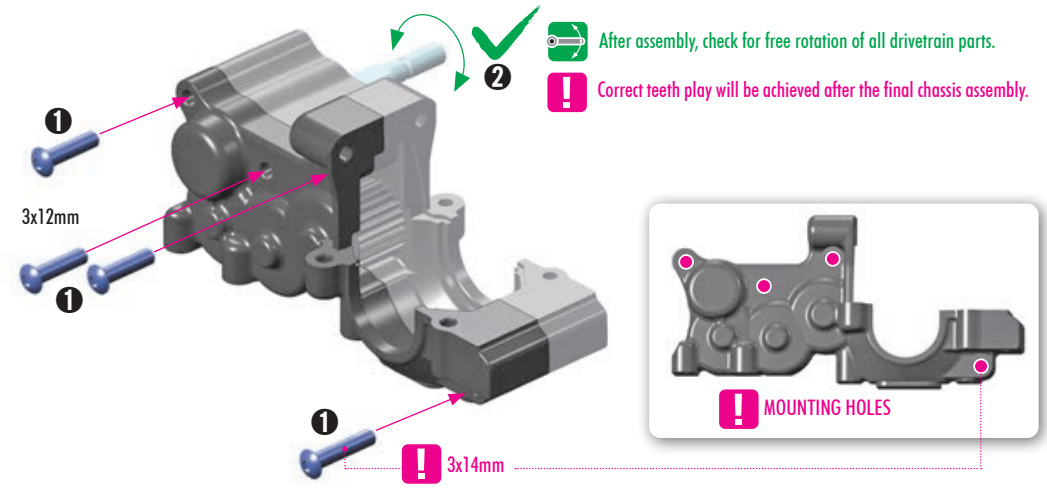


XRAY TUNING PARTS - ASSEMBLY DETAILS

(NOT INCLUDED)

3x 902312 SH M3x12

1x 902314 SH M3x14



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

Page 21 / step 1

Page 22 / step 1 + step 2 + step 3

Page 24 / step 1

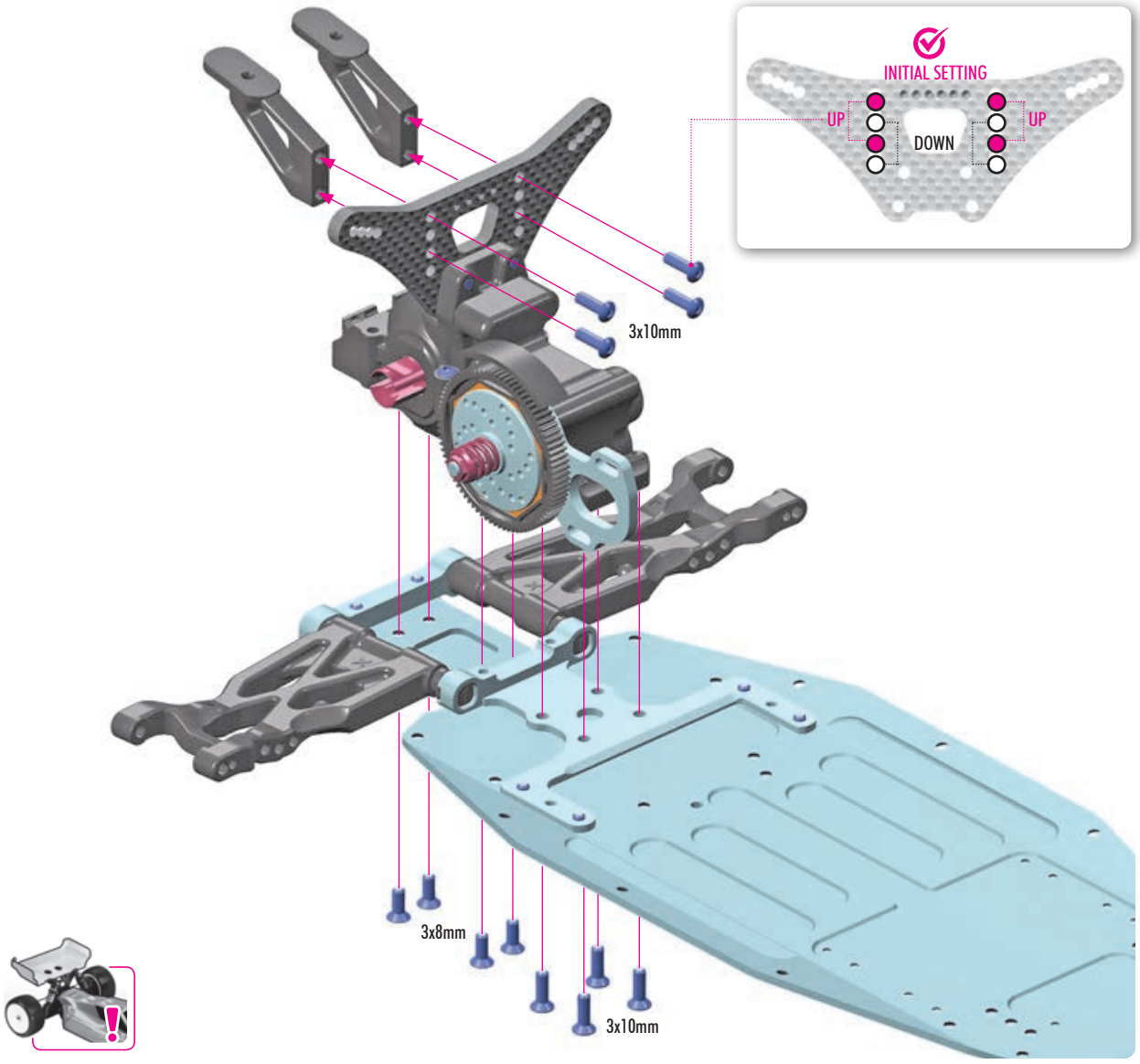
Page 25 / step 1 + step 2

Some of the screws must be used from the kit.

4x 902310 SH M3x10

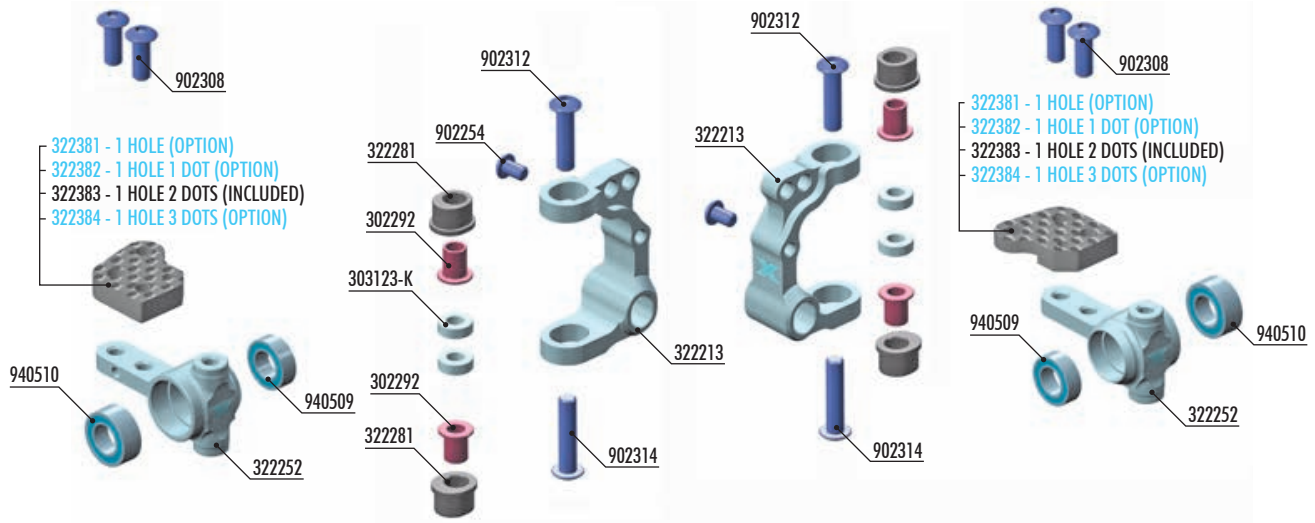
4x 903308 SFH M3x8

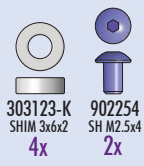
4x 903310 SFH M3x10

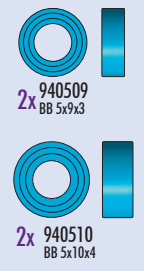


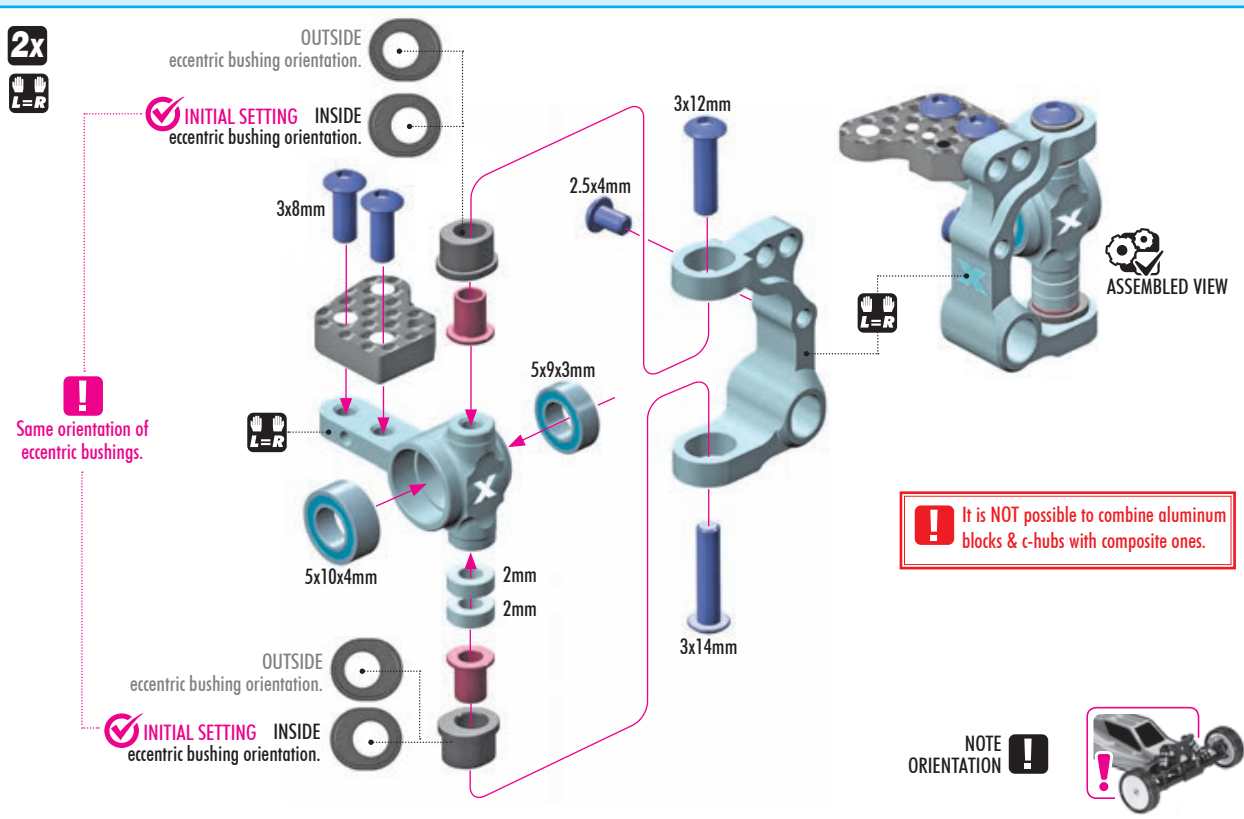
XRAY TUNING PARTS - ASSEMBLY DETAILS
(NOT INCLUDED)

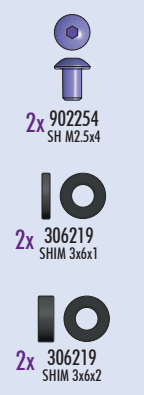
OPTION
#320906
ALU STEERING BLOCKS & C-HUBS WITH ECCENTRIC BUSHINGS - SET

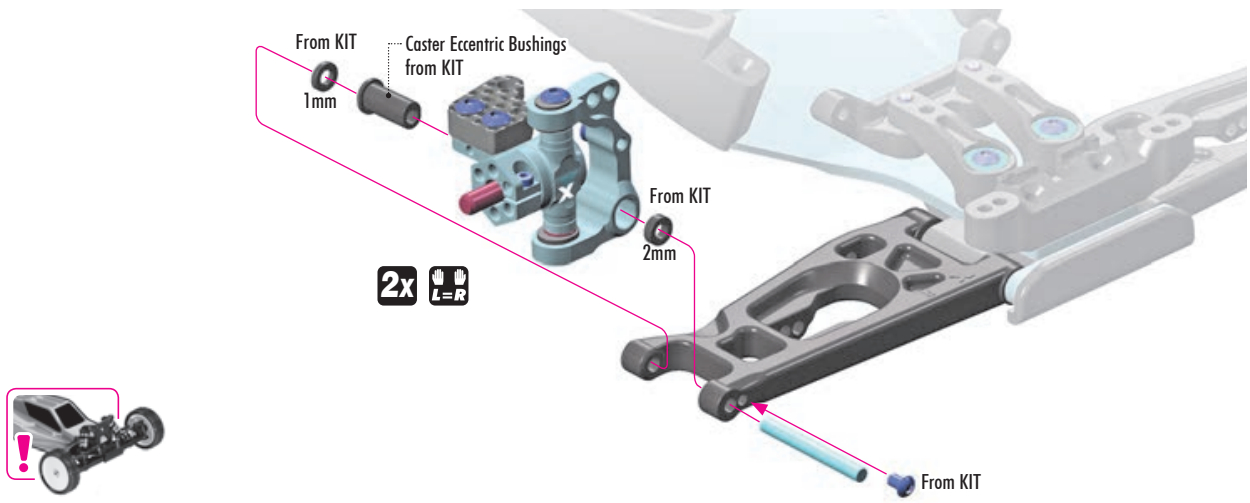






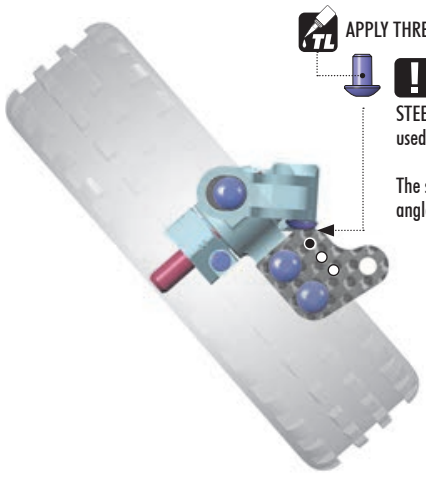




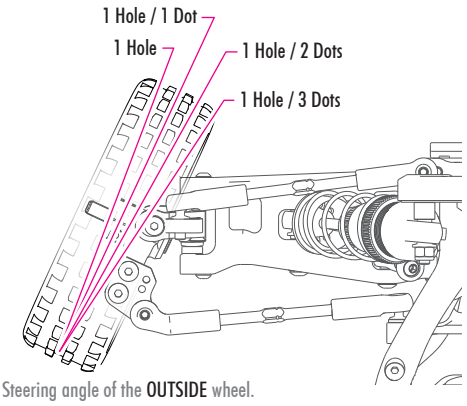


XRAY TUNING PARTS - ASSEMBLY DETAILS
(NOT INCLUDED)

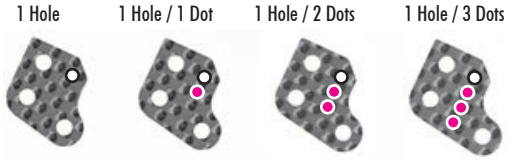
2x 902254 SH M2.5x4



Steering angle of the **INSIDE** wheel.

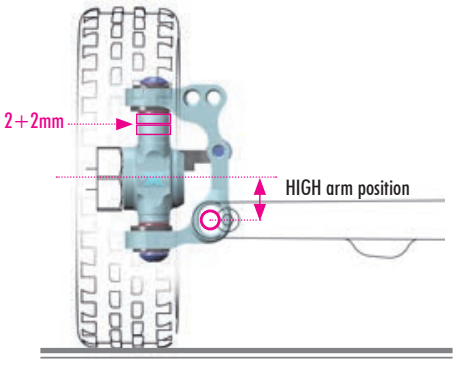


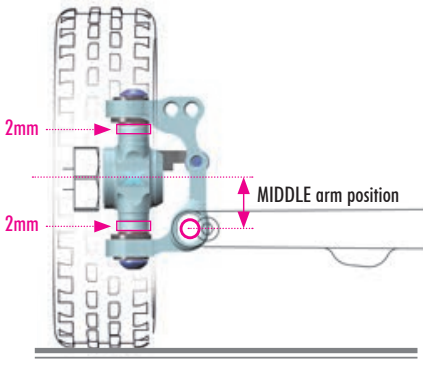
Steering angle of the **OUTSIDE** wheel.

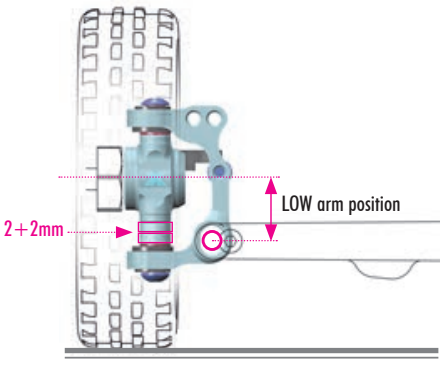


ADJUSTABLE ALU STEERING BLOCKS & C-HUBS

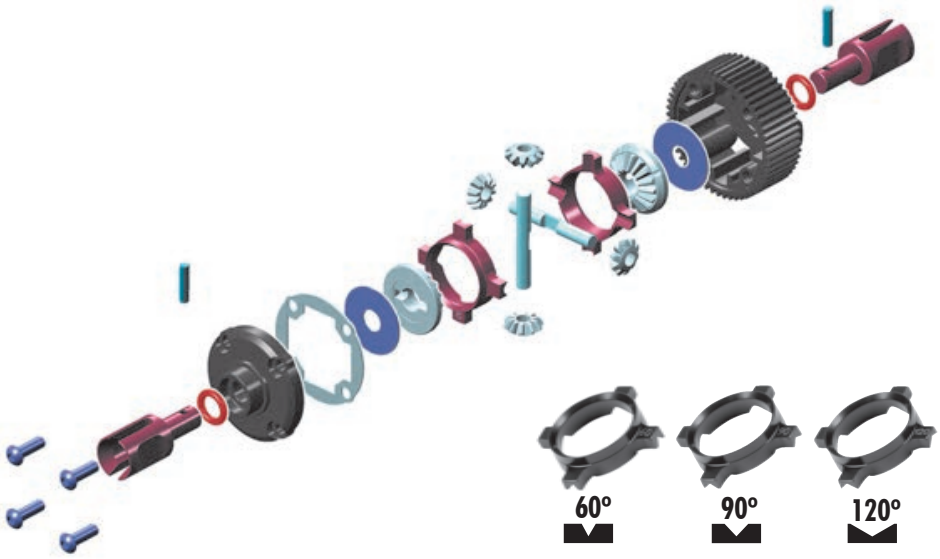
Depending on the ride height setting, the adjustable aluminum steering blocks and caster blocks allow a lower arm position while also lowering the center of gravity.







OPTION **#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

XRAY TUNING PARTS
(NOT INCLUDED)

3G Rear Motor Position



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

3G Front Motor Position

CARPET included
DIRT included



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

5G Front Motor Position



33 parts included

#320905-C 5G Gear Box Conversion - Set

XB2 Gear Box & Chassis Alternatives

Chassis Compatibility:



	Chassis	
Part number	Length	Thickness
#321128-N	Steel	1.2mm
#321126	Extra Short	2.0mm ✓
#321125-N	Short	2.5mm ✓
#321124-N	Mid-Size	2.5mm
#321127	Long	2.5mm

Chassis Compatibility:



	Chassis	
Part number	Length	Thickness
#321128-N	Steel	1.2mm ✓
#321126	Extra Short	2.0mm ✓
#321125-N	Short	2.5mm ✓
#321124-N	Mid-Size	2.5mm ✓
#321127	Long	2.5mm ✓

Chassis Compatibility:



	Chassis	
Part number	Length	Thickness
#321128-N	Steel	1.2mm ✓
#321126	Extra Short	2.0mm ✓
#321125-N	Short	2.5mm ✓
#321124-N	Mid-Size	2.5mm ✓
#321127	Long	2.5mm ✓

XB2 Gear Box Graphite Composite Mixture Alternatives



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



Graphite composite mixture

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



Graphite composite mixture

#323026-G Composite 5G Gear Box - Graphite - Set

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



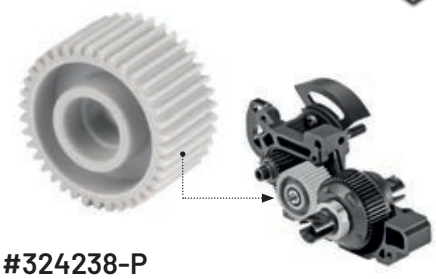
#980320-T

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

Fits #323029 3G gear box – front motor configuration



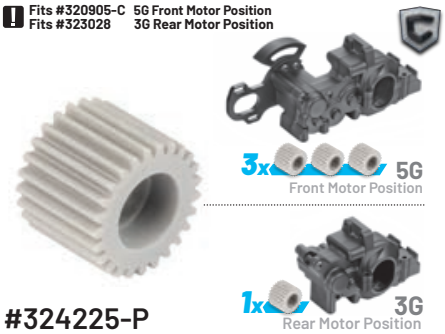
#324238-P

Ultra Durable Gear 38T Machined

- Ultra durable 38t transmission gear
- Precision machined for maximum accuracy
- Smooth operation & perfect gear mesh
- Improves drivetrain efficiency
- Reduces rotating mass
- Increases acceleration
- Improves braking response
- Premium composite material

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING

Fits #320905-C 5G Front Motor Position
Fits #323028 3G Rear Motor Position



#324225-P

Ultra Durable Gear 25T Machined-TMP

- Withstands extreme racing loads
- Extended drivetrain lifespan
- Precisely CNC machined

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING

XRAY TUNING PARTS
(NOT INCLUDED)



XB2 Chassis

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

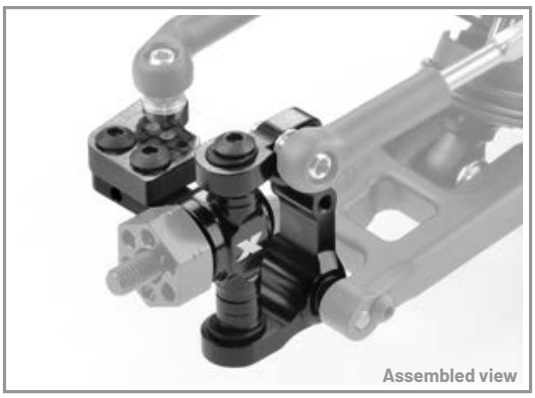
OTHER VARIANTS:

XB2 Alu Chassis

Part number	Length	Size
#321128-N	Steel	1.2mm
Suitable for medium-high traction tracks. The increased weight for ultra-low CG, which improves stability & consistency.		
#321127	Long	2.5mm
This chassis is specifically designed where longer wheel base is needed to increase stability.		
#321126	Extra Short	2.0mm
This chassis is specifically designed for use on ultra low-traction and highly slippery track conditions, primarily on dirt surface.		
#321125-N	Short	2.5mm
Chassis designed for medium - traction conditions, primarily for dirt surfaces.		
#321124-N	Mid-Size	2.5mm
Chassis designed for high-traction conditions where increased stability is required, primarily for carpet tracks.		

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING





#320906

Alu Steering Blocks & C-hubs with Eccentric Bushings - 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



#325220

Universal Drive Shaft 77mm - HUDY Spring Steel™

- Universal rear drive shaft set for XB2 & XB4
- Freer drivetrain feel & smoother suspension movement
- Improves performance on bumpy & rough tracks
- Dust-free design ideal for astro & dirty conditions
- Reduced maintenance requirements
- Precision manufactured from HUDY Spring Steel™
- Direct replacement for standard rear drive shafts

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



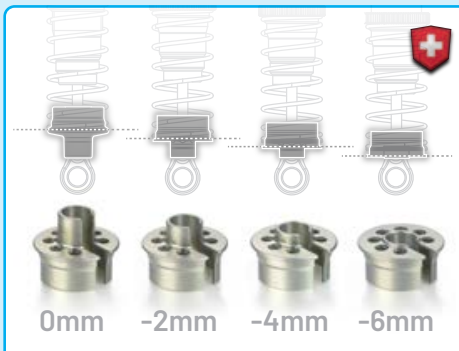
#322575

Alu Steering Plate for 1-Piece Chassis - Set

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

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING

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.



#368021 ALU SHOCK SPRING RET. COLLAR (4)



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

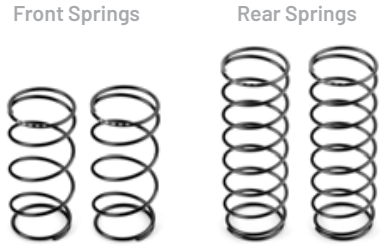


#368023 ALU SHOCK SPRING RET. COLLAR -4mm (4)



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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



Front & Rear Shock Spring-Set

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

OTHER VARIANTS:

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

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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#323355 **#323356** **#323358**

Alu Multi Adjustable Rear Uprights Swiss 7075 T6

- Alu rear uprights with upper, lower & extra lower arm mounting
- Multi adjustable roll centers and track width
- Improves stability
- Premium Swiss 7075 T6 aluminum
- For high & very high traction tracks where increased stability is needed

OTHER VARIANTS:

Rear Uprights		
Part number	Material	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
#323358	Alu Extra Low	Extra 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

EXTRA LOWER position
We recommend for these types of surfaces and traction:
• CARPET very high traction • ASTRO very high traction

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#322516
SHORT STEERING ARMS
Less reactive steering with a smoother and more progressive steering feel.



#322517
LONG STEERING ARMS
More reactive steering with quicker response and a more direct steering feel.

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

- 2 steering arm lengths for precise steering tuning
- Short arms provide smoother, more progressive steering
- Long arms provide quicker, more direct steering response
- Allows easy adjustment for different track conditions
- CNC-machined from premium Swiss 7075 T6 aluminum
- Includes ball bearings
- Designed for 1-piece chassis

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING

XRAY TUNING PARTS
(NOT INCLUDED)



#324103

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.

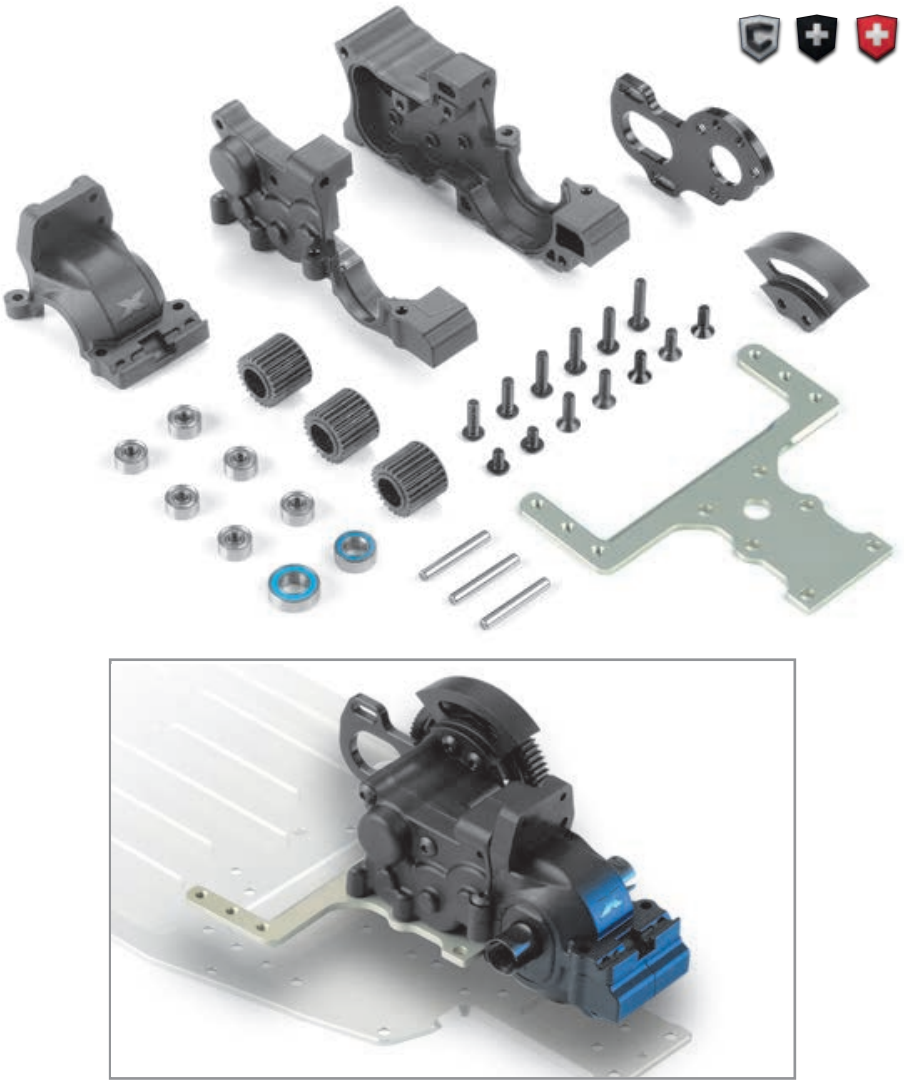
OTHER VARIANT:



#325869

Slipper Eliminator Spur Gear 69T / 48P

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#320905-C

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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#325341-L #325390

Rear Adjust. Drive Axle LB for Rear Upright - Lower Position

- Unique length adjustment
- Precise fit
- Highly durable
- Lightweight
- Extra-long lifespan
- HUDY Spring Steel™
- Fits only uprights with Lower Position

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING

NOT compatible with standard 3° rear suspension holder



#323317

Alu Rear (C) Narrow Suspension Holder

- Narrow suspension holder increases rear traction
- Improves rear grip in low-traction conditions
- Must be used with #323326 rear suspension holder
- Not compatible with standard 3° rear suspension holder

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING

XRAY TUNING PARTS
(NOT INCLUDED)

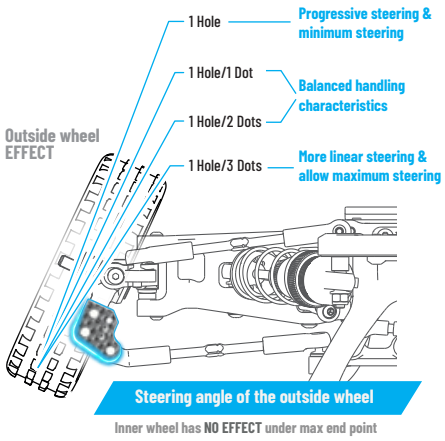


Carbon Extension for Steering Block

- 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	
#322381	1 Hole
#322382	1 Hole / 1 Dot
#322383	1 Hole / 2 Dots
#322384	1 Hole / 3 Dots



SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



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

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



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	0.0mm	0
#365354	-0.75mm	Lightweight
#365361	-1.25mm	Lightweight

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



#322312

Brass 46g Front Lower Arm Mount 0° - V2

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

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING

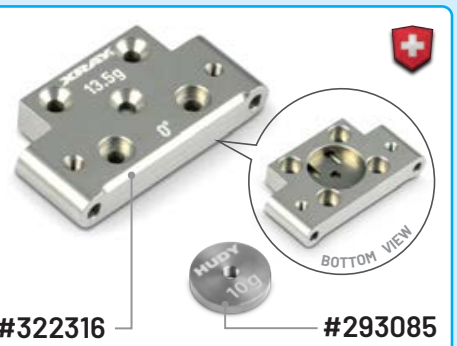


#322317 #293085

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

- Makes the car more stable
- Increases on-power steering
- Allows to increase or decrease the kick-up
- Two different alternatives
- Premium SWISS 7075 T6 aluminum

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



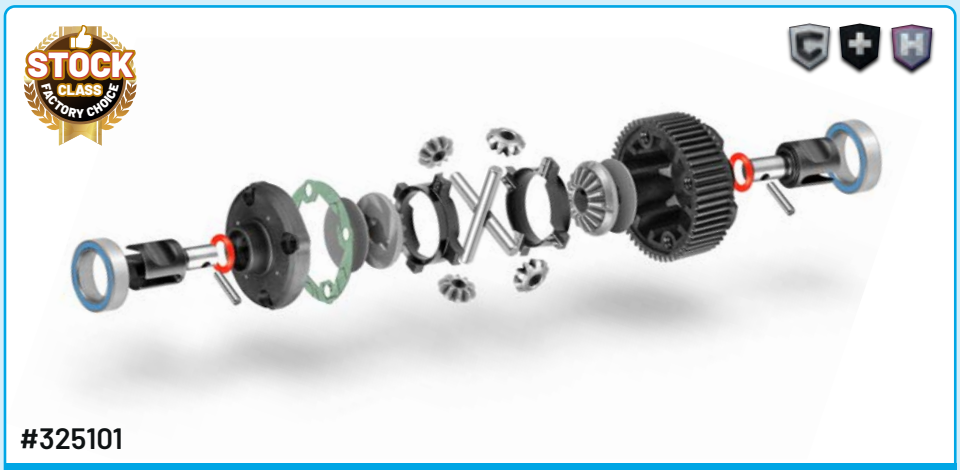
#322316 #293085

Alu Front Lower Arm Mount 0° Swiss 7075 T6

- Makes the car more stable
- Increases on-power steering
- Two different alternatives
- Premium SWISS 7075 T6 aluminum

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING

XRAY TUNING PARTS
(NOT INCLUDED)



#325101

XRAY XB2 Active Differential - Narrow - Set

- Improves speed
- Improves handling
- Improves forward traction
- Improves stability
- Makes the car easier to drive
- 120° segments included

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#335031

Diff Bevel & Satellite Gears for O-rings - Set

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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#324912-G

Composite Gear Differential Cover - LCG - Narrow – Graphite

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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#324955-G

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

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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING

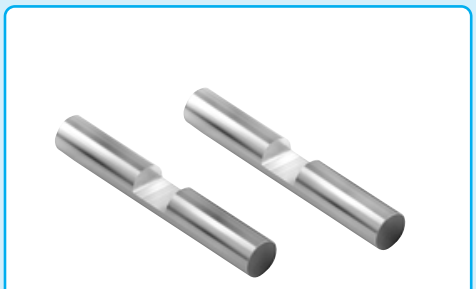


#304932

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

- Graphite differential gears 2 bevel + 4 satellite gears
- Ultra-strong graphite composite material
- Lightweight
- Enhances drivetrain efficiency & reduces gear wear
- Minimizes risk of tooth stripping or breakage under stress

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#335080

Steel Differential Pin (2)

- Long life
- Extra durable
- CNC-machined

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#335081

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



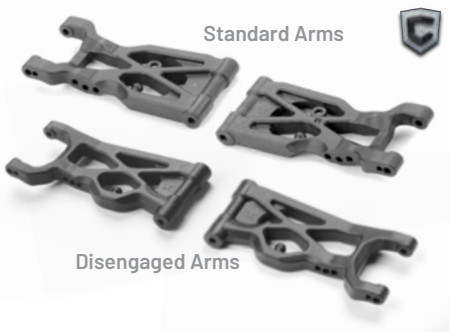
#930220

Ceramic Ball 2.4mm (12)

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

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING

XRAY TUNING PARTS
(NOT INCLUDED)



Rear Suspension Arms

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

Standard Rear Arms

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

Disengaged Rear Arms

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

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



Front Suspension Arms

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

Front LSM Suspension Arms - SHORT

Part number	Orientation	Hardness
#322117-M	Right	Medium
#322127-M	Left	Medium
#322117-H	Right	Hard
#322127-H	Left	Hard
#322117-G	Right	Graphite
#322127-G	Left	Graphite

Front LSM Suspension Arms - LONG

Part number	Orientation	Hardness
#322113-M	Right	Medium
#322123-M	Left	Medium
#322113-H	Right	Hard
#322123-H	Left	Hard
#322113-G	Right	Graphite
#322123-G	Left	Graphite

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



#323560

Carbon Rear Wing Shim

- 1-piece design connects both wing holders
- Reduces flexing & bending
- Prolongs life of rear wing
- Premium look

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



#326153

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



#326181

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

XRAY TUNING PARTS
(NOT INCLUDED)



#321212

Carbon Suspension Holder Brace 0°

The carbon front suspension holder brace (0°) is a lightweight alternative to the previous aluminum front suspension holder brace. The carbon material reduces overall weight.

SET-UP TUNING | STRENGTH | **STYLE** | PERFORMANCE | **WEIGHT SAVING**



#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

SET-UP TUNING | STRENGTH | STYLE | **PERFORMANCE** | **WEIGHT SAVING**



#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

SET-UP TUNING | STRENGTH | STYLE | **PERFORMANCE** | **WEIGHT SAVING**



#322093

Wider Carbon Shock Tower Bridge -Upper Deck 2 Dots

- Wider carbon front shock tower
- Improves performance on bumpy tracks
- Increases steering response & front traction
- High-grade carbon material made in USA

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**

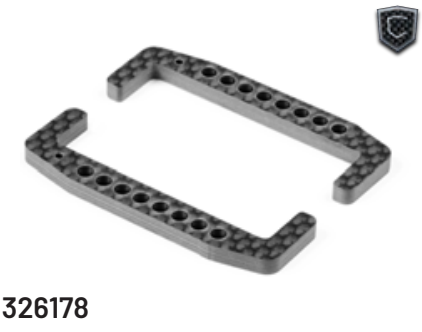


#321255-G

Composite Elevated Side Braces L+R - Long - Graphite

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

SET-UP TUNING | STRENGTH | STYLE | **PERFORMANCE** | **WEIGHT SAVING**



#326178

Graphite Battery Backstop 3.5mm - Lower (2)

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

SET-UP TUNING | **STRENGTH** | **STYLE** | PERFORMANCE | **WEIGHT SAVING**



#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

SET-UP TUNING | STRENGTH | **STYLE** | PERFORMANCE | **WEIGHT SAVING**



#364132

Slipper Clutch Pad Black Medium (2)

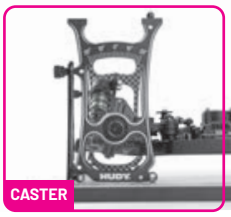
- Provides stronger and more consistent slip control under power
- Ideal for carpet, turf, and grooved clay where traction is high
- Reduces wheel spin and allows better throttle modulation
- Handles longer runs without glazing or fading

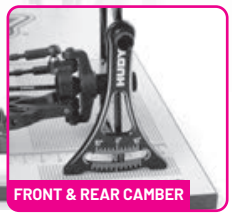
SET-UP TUNING | STRENGTH | STYLE | **PERFORMANCE** | **WEIGHT SAVING**

HUDY SET-UP TOOL & ACCESSORIES
(NOT INCLUDED)



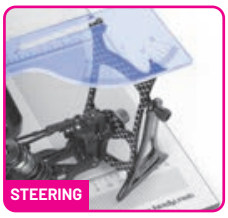




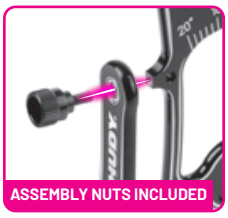












#108901

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

- Precision track-width change
- Must-have set-up tool for a complete suspension geometry adjustment
- Quick and straight-forward "one screw" assembly/disassembly
- Backlash-free, wobble-free mounting
- Fully ball-bearing equipped set-up stands (12 high-precision ball-bearings)
- Ultra-smooth, ultra-precise movement and operation
- CNC-machined from high-grade premium Swiss 7075 T6 aluminum
- CNC-machined upside measure plate form tough acrylic plastic
- All components have 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

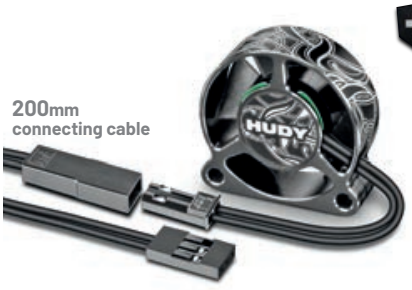


#293421 (23T) #293422 (25T)

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



#293101

HUDY Alu RC Fan 30mm Side Mount 2 Hole

- 3 different mounting design alternatives
- Extremely reliable
- For cooling of the ESC & motor
- 200mm connecting cable with BEC connector
- 60mm main cable soldered to fan
- The operational range is between 6.0V – 8.4V
- Internal soldering tabs
- Brushless design
- Bearing equipped

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



Holders for shock absorbers

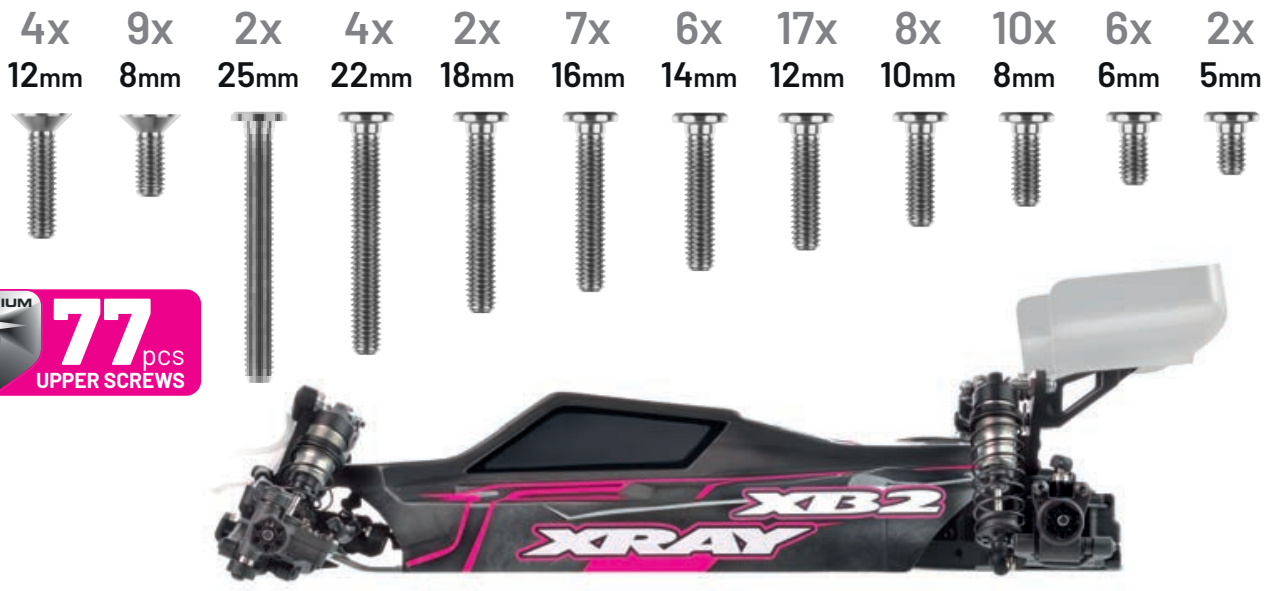


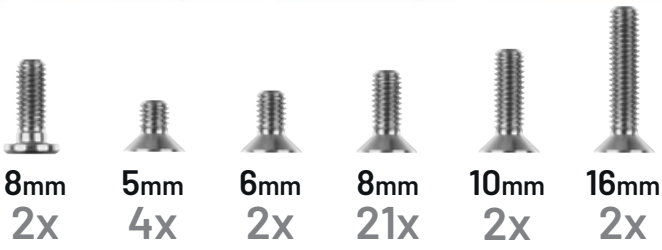
Holders for differential

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING

HUDY SET-UP TOOL & ACCESSORIES
(NOT INCLUDED)

#901002-U HUDY Titanium Screws for XB2 - Upper Set (77)





STOCK CLASS FACTORY CHOICE

#901002-L HUDY Titanium Screws for XB2 - Lower Set (33)

HUDY Titanium Screws for XB2 - Set

- Complete set of upper & lower titanium screws for XB2
- Titanium material
- Super lightweight
- Centering diameter on super-low head screws
- Ultra-precise
- Long life
- High durability
- Made by HUDY
- Made in Europe

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#107763

HUDY Adjustable Ride Height Gauge 5-40mm

- Easy & fast ride height adjustment
- Adjustable gauge in range 5-40mm
- Extremely durable and wear resistant
- 1mm increments
- Small & lightweight

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING



#293211

HUDY Alu Bullet Plug Black & Red w 5mm Golden Bullets – Set

- Provide sufficient grip for plugging your battery
- Made of high quality gold-plated copper
- Durable & corrosion resistant
- Lowest resistance for maximum power delivery
- Sharp set screw for maximum reliability
- Easy to solder and install

SET-UP TUNING | STRENGTH | STYLE | PERFORMANCE | WEIGHT SAVING

HUDY SET-UP TOOL & ACCESSORIES
(NOT INCLUDED)



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

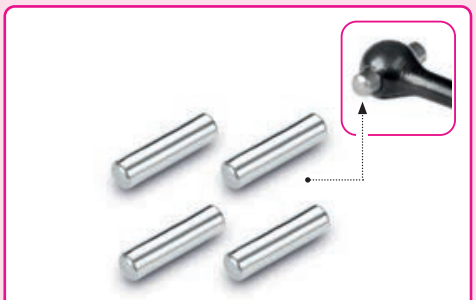


#106059

HUDY Replacement Drive Shaft Pins 2x10mm - Extra Hard (4)

- Extra hard material for prolonged life
- Polished for minimum friction
- Hardened for increased durability
- Extends drive train life time multiple times
- Set of 4

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



#106060

HUDY Replacement Drive Shaft Pins 2.5x10mm - Extra Hard (4)

- Extra hard material for prolonged life
- Polished for minimum friction
- Hardened for increased durability
- Extends drive train life time multiple times
- Set of 4

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING

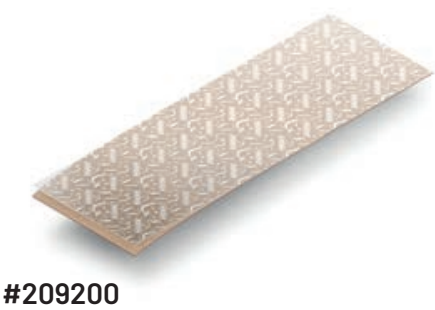


#108951

HUDY Set-up Toolset 1/10 Off-road

- Includes all tools for complete geometry adjustment
- Highest precision & superior quality
- Unmatched value
- Must have for every racer
- All components made by HUDY in Europe
- All components are machined from lightweight aircraft aluminum

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



#209200

HUDY Chassis Protector Vinyl Sticker 360x125mm

- Makes the car stable
- Increases on-power steering
- More precise steering
- Allow to increase or decrease the kick-up
- Premium SWISS 7075 T6 aluminum

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING



#106281

HUDY Body Fix 28g/1oz

- Famous Body Fix glue with updated formula
- 50% less glue necessary to apply
- Repairs broken areas
- Fixes damaged/broken bodies
- Strengthens and reinforces weak areas on body
- Fulfills latest EU eco & health safety regulations

SET-UP TUNING STRENGTH STYLE PERFORMANCE WEIGHT SAVING

HUDY TIRES • WHEELS • INSERTS
(NOT INCLUDED)

HUDY 1/10 OFF-ROAD TIRES



HUDY

HUDY 1/10 OFF-ROAD PRE-GLUED TIRES



HUDY

HUDY 1/10 OFF-ROAD INSERTS



HUDY

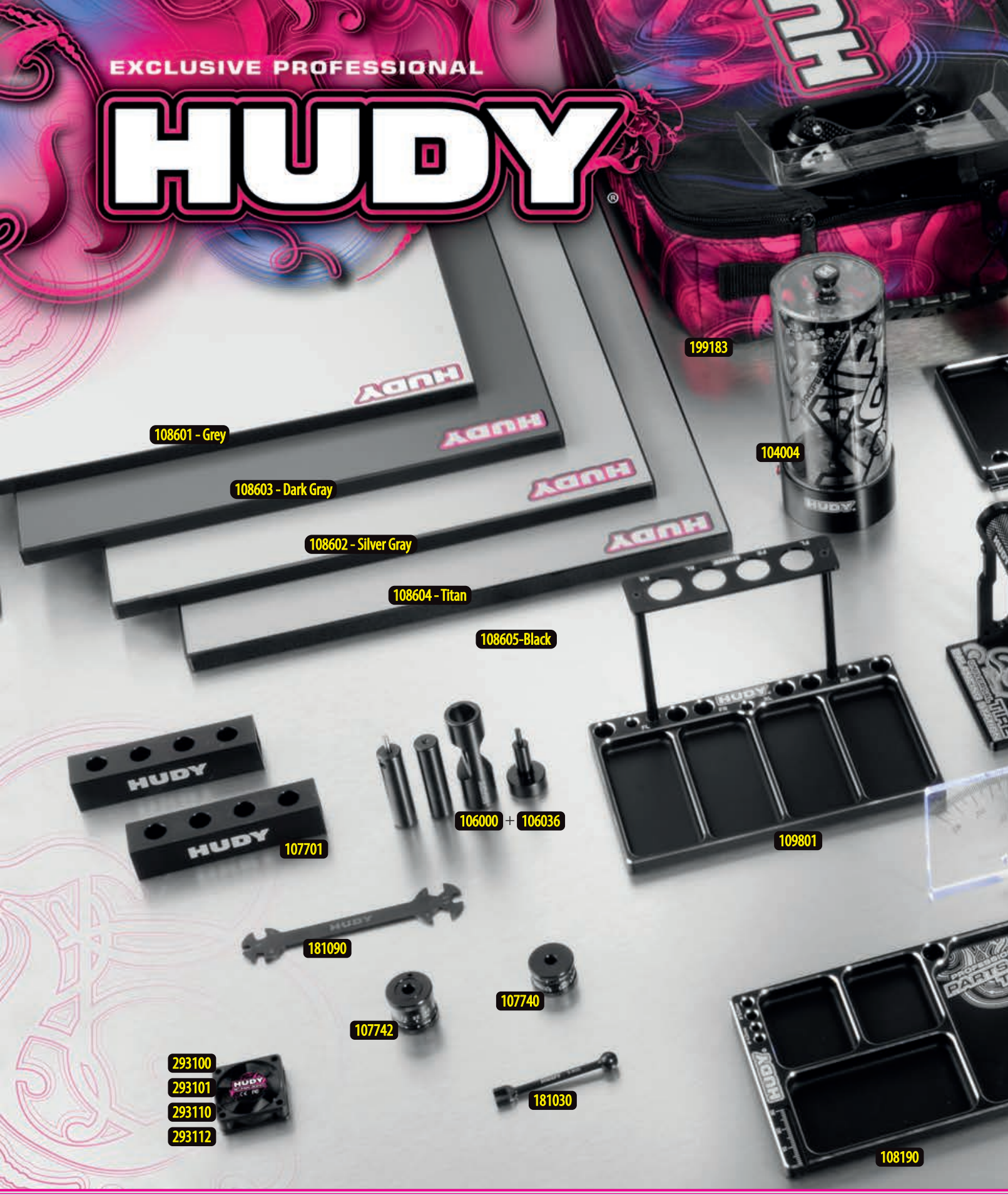
HUDY 1/10 OFF-ROAD WHEELS



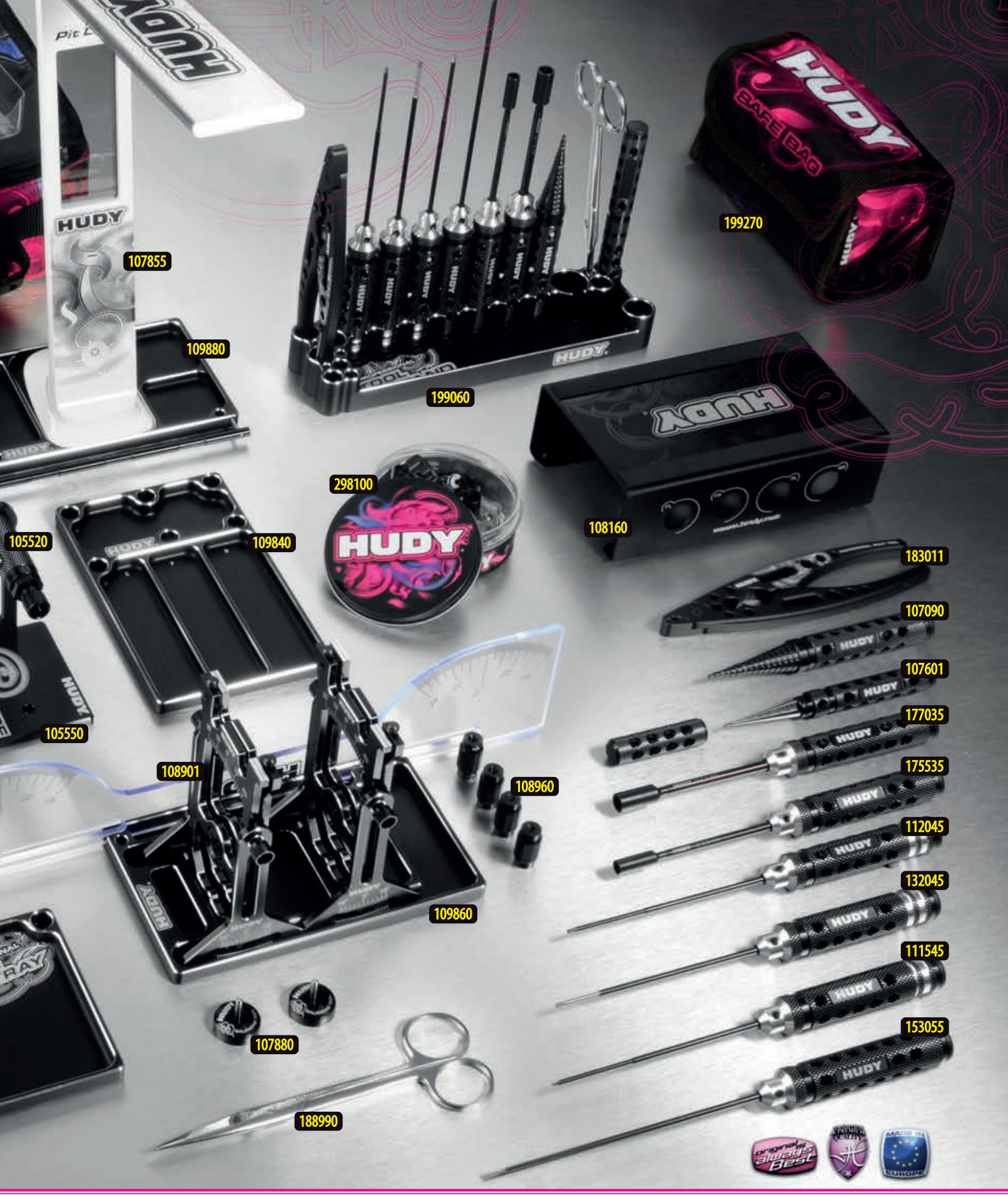
HUDY

EXCLUSIVE PROFESSIONAL

HUDY



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 0-9MM + 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
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



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

For more information about tools, set-up equipment and accessories suitable for your car please visit: www.hudy.net

SHOCK MAINTENANCE

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

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

BEARING MAINTENANCE

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

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

❶ Remove the seals on both sides of the bearing (if present). If the seals bend a little and you can see a kink, carefully flatten the kink out by hand.

❷ Spray the seals with motor cleaner and blow dry with compressed air.

❸ Spray the bearing on both sides with motor cleaner.

❹ Spin the bearing while it is still wet to dislodge any particles with the cleaner.

❺ Spray the bearing on both sides again.

❻ Blow both sides of the bearing dry with compressed air to make sure particles come out.

❼ Hold the inner part of the bearing with your left thumb/forefinger and spin it to make sure it spins free without any abnormal vibrations or sounds.

❽ Place one drop of bearing oil into each side of the bearing.

❾ Replace both seals at the same time by lining them up on each side of the bearing and lightly pressing them in all the way around the bearing's circumference with your thumb and forefinger. DO NOT press too hard or use any type of tool, such as a wrench tip, to push the blue seals in as they will push in too far, bend and cause drag.

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

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

RECOMMENDED PRODUCTS

- Use correct oil or grease to lubricate the bearings:

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



HUDY #106230



HUDY #106220



HUDY #106221



HUDY #106222

SUSPENSION & DRIVETRAIN MAINTENANCE

- Check suspension for free movement during building and operation, and especially after running and if you have crashed the car. If the suspension DOES NOT move freely, use the appropriate HUDY Arm Reamer to clean and resize the holes of the suspension arms.
- Regularly check the drive shaft pins and if they show any wear must be immediately replaced by new pins. If the car is run with worn pins, excessive wear on the diff outdrives will result. The #106000 HUDY Drive Pin Replacement Tool (for 2.5mm Pins) is a compact, rugged multi-use tool set for replacing 2.5mm drive pins in drive shafts. Use the HUDY replacement drive shaft pins #106053 or #106060.
- Regularly inspect and replace the pins that connect the wheel drive shafts with wheel axles. Use HUDY Graphite Grease to lubricate the drive shaft connecting joints and the diff gears.
- Pivot balls and ball-joints will naturally wear for some time and will generate play. If there is too much play the pivot balls and ball joints need to be replaced.
- If the car is run in wet conditions, apply WD-40® on all drivetrain parts before the run. After the run, clean and dry the parts again.



#106210 HUDY GRAPHITE GREASE

or



#106213 HUDY JOINT GREASE

HUDY SPRING STEEL™

The HUDY Spring Steel™ used in the car is the strongest and most durable steel material on the RC market. While items made from HUDY Spring Steel™ are still subject to wear, the lifespan is considerably longer than any other material. As parts made from HUDY Spring Steel™ wear, the brown color will fade (get lighter) but it will NOT affect the strength of the material. The brown color is only a surface treatment and if the brown color will wear the durability of the part will be still strong.

www.teamxray.com

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