

1/10 LUXURY ELECTRIC OFF-ROAD BUGGY 2WD

XRAY XB2



INSTRUCTION MANUAL
FOR XB2C'22 & XB2D'22 EDITION

BEFORE YOU START

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

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

CUSTOMER SUPPORT

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

You can join thousands of XRAY fans and enthusiasts in our online community at:

www.teamxray.com

Read carefully and fully understand the instructions before beginning assembly.

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

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

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XRAY USA

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

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

SAFETY PRECAUTIONS

Contains:

LEAD (CAS 7439-92-1) ANTIMONY (CAS 7440-36-0)

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

CAUTION: CANCER HAZARD

Contains lead, a listed carcinogen. Lead is harmful if ingested. Wash thoroughly after using. DO NOT use product while eating, drinking or using tobacco products. May cause chronic effects to gastrointestinal tract, CNS, kidneys, and blood. MAY CAUSE BIRTH DEFECTS.

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

Take appropriate safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation! Please read the instruction manual before building and operating this model and follow all safety precautions. Always keep the instruction manual at hand for quick

reference, even after completing the assembly. Use only genuine and original authentic XRAY parts for maximum performance. Using any third party parts on this model will void warranty immediately.

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



IMPORTANT NOTES - GENERAL

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

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

IMPORTANT NOTES - ELECTRICAL

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

or using inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check and/or repair and/or replacement.

- Regularly check the charger for potential hazards such as damage to the cable, plug, casing or other defects. Ensure that any damage is rectified before using the charger again. Modifying the charger may cause short-circuit or overcharging leading to a serious accident. Therefore do not modify the charger.
- Always unplug charger when recharging is finished.
- Do not recharge battery while battery is still warm. After use, battery retains heat. Wait until it cools down before charging.
- Do not allow any metal part to short circuit the receiver batteries or other electrical/electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- Please dispose of batteries responsibly. Never put batteries into fire.

R/C & BUILDING TIPS

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

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

WARRANTY

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

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will not cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This includes

but is not limited to damage from crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the integrity of components. Warranty will not cover components that are considered consumable on RC vehicles. XRAY does not pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

Limitations of Liability

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

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

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

All rights reserved.

QUALITY CERTIFICATE

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

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

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

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

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

TOOLS REQUIRED



Combination Pliers
(HUDY #189020)



Side Cutters
(HUDY #189010)



Pocket Hobby Knife (HUDY #188981)



Special Tool for turnbuckles, nuts (HUDY #181090)



Turnbuckle Wrench 3mm (HUDY #181030)



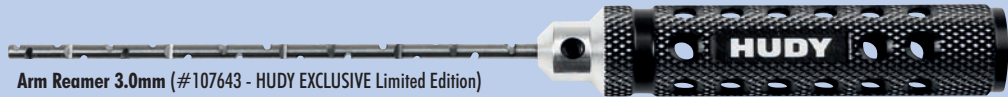
Allen 1.5mm (#111545 - HUDY EXCLUSIVE Limited Edition)



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



Allen 3.0mm (#113045 - HUDY EXCLUSIVE Limited Edition)



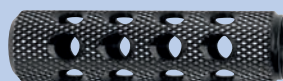
Arm Reamer 3.0mm (#107643 - HUDY EXCLUSIVE Limited Edition)



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



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



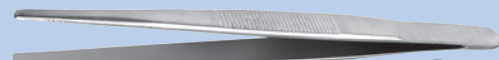
Reamer (#107602 - HUDY EXCLUSIVE Limited Edition)



Professional Multi Tool
(HUDY #183011)



Scissors (HUDY #188990)



Tweezer

EQUIPMENT INCLUDED

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

450cSt (#106345)
HUDY Premium Silicone Oils



500cSt (#106350)
HUDY Premium Silicone Oils



5.000cSt (#106450)
HUDY Premium Silicone Oils



(HUDY #106211)
Premium Diff Grease



(HUDY #106210)
Premium Graphite Grease



EQUIPMENT REQUIRED

Transmitter



Receiver



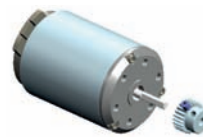
Speed Controller



Steering Servo



Electric Motor & Pinion Gear
with Setscrew



LiPo Battery



Battery Charger



Double-sided Tape
(HUDY #107875)



Lexan™ Paint



4x Tires & Inserts



Bearing Oil
(HUDY #106230)



Threadlock



CA glue



NOT INCLUDED



Follow Set-Up Book:

To ensure that you always have access to the most up-to-date version of the Set-up Book you can download the HUDY Set-up Book from their web site at [www.hudy.net] By offering this online version instead of including a hardcopy printed version in kits, you will always be assured of having the most current updated version.



SAMPLE OF OPTIONAL PARTS

OPTION	TYPE1	OPTION 1
#32XXXX	TYPE1	OPTION 1
#32XXXX	TYPE1	OPTION 2
#32XXXX	TYPE1	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.

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)

TIP GRAPHITE PARTS PREPARATION

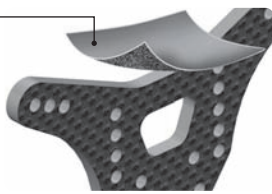
Follow this Tech Tip to prepare the graphite parts. Sand the edges with sandpaper, and then seal the edges with CA glue to reinforce them and help prevent delamination.

Prepare all Graphite Parts:

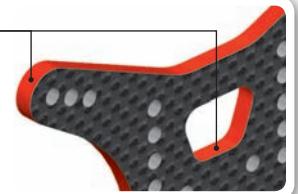
- Front shock tower
- Rear shock tower

Fine sandpaper

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



Apply CA glue to all edges of the graphite parts.



MANUAL STEPS ONLY FOR DIRT

1. BALL DIFFERENTIAL **DIRT**

MANUAL STEPS ONLY FOR CARPET

1. GEAR DIFFERENTIAL **CARPET**

MANUAL DUAL STEPS FOR CARPET AND DIRT

3. REAR DRIVETRAIN **CARPET** **DIRT**

1. GEAR DIFFERENTIAL



GEAR DIFF CASE

#324911	HARD	INCLUDED
#324911-G	GRAPHITE	OPTION

GEAR DIFF PULLEY

#324954	HARD	INCLUDED
#324954-G	GRAPHITE	OPTION

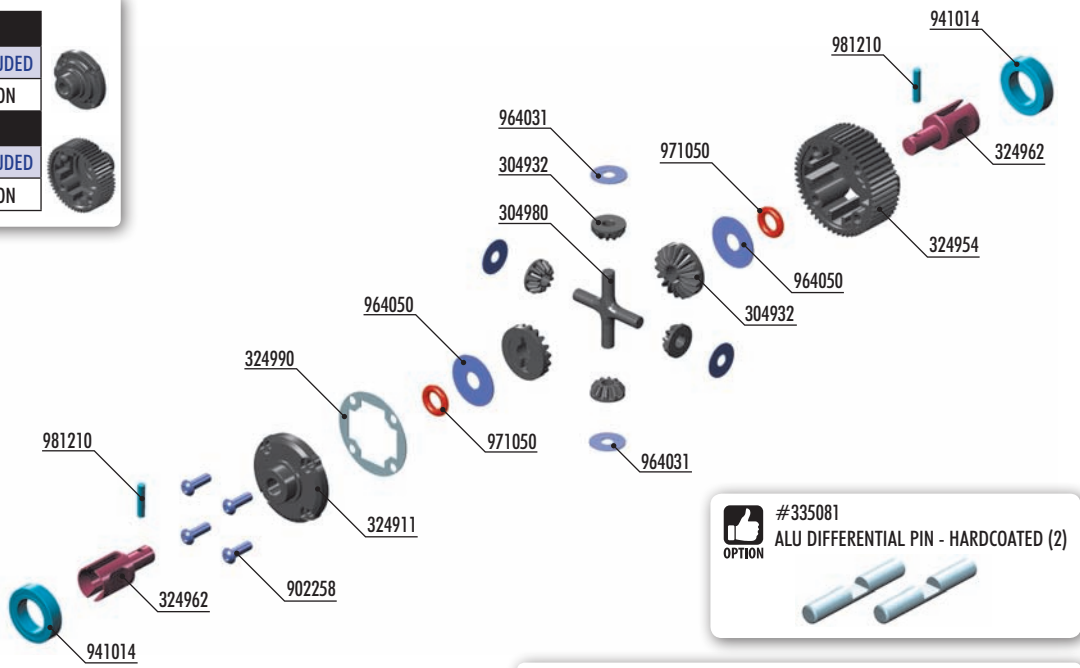


#325100 XRAY XB2 ACTIVE DIFFERENTIAL - SET



ACTIVE DIFF SEGMENTS

#325123	60°		OPTION
#325125	90°		OPTION
#325127	120°		INCLUDED



#335081

ALU DIFFERENTIAL PIN - HARDCOATED (2)



BEVEL & SATELLITE GEARS + PINS

#304932 + #304980	COMPOSITE	INCLUDED
#335030 + #335080	STEEL	OPTION



BAG



- 304932 GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)
- 304980 COMPOSITE GEAR DIFF CROSS PIN
- 324990 DIFF GASKET (4)
- 324902 GEAR DIFFERENTIAL - LCG - SET
- 324911 COMPOSITE GEAR DIFFERENTIAL COVER - LCG
- 324954 COMPOSITE GEAR DIFFERENTIAL CASE - LCG - 53T
- 324962 GEAR DIFF OUTDRIVE ADAPTER - LCG - HUDY SPRING STEEL™ (2)

- 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)

2x



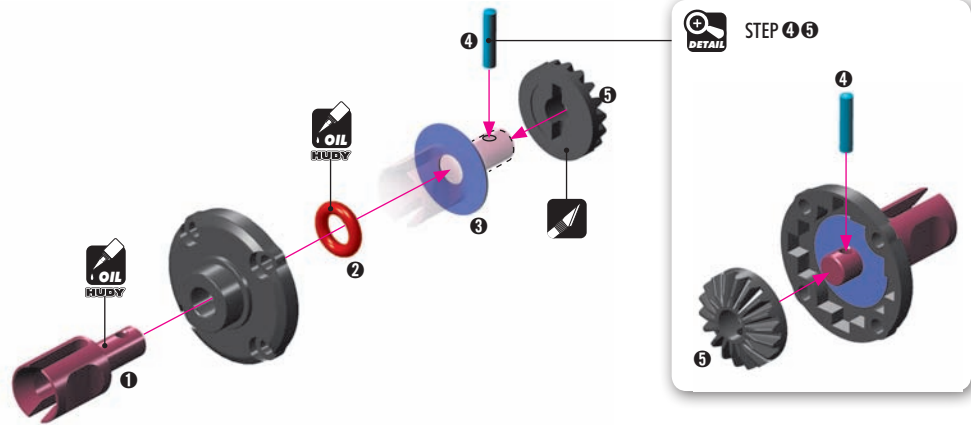
964050
S 5x15x0.3



971050
O 5x1.5



981210
P 2x10



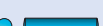
STEP 4 5



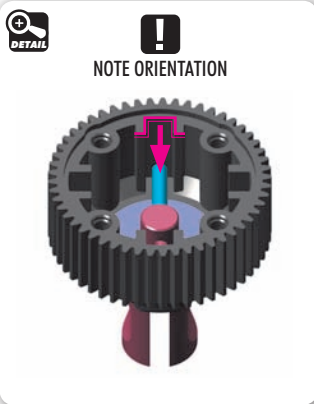
964050
S 5x15x0.3



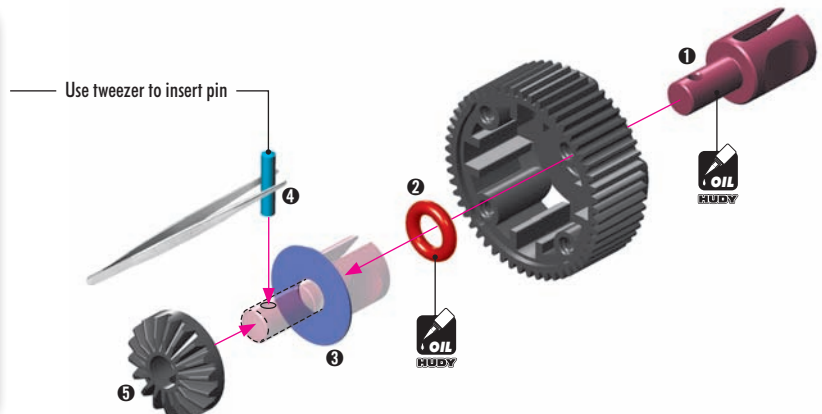
971050
O 5x1.5



981210
P 2x10



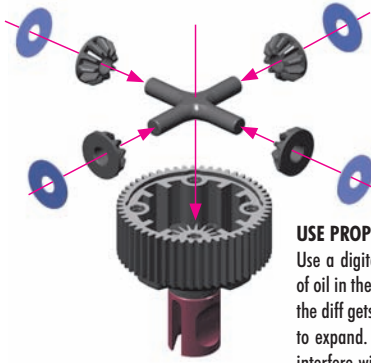
NOTE ORIENTATION



Use tweezers to insert pin



964031
S 3.5x10x0.2



USE PROPER AMOUNT OF OIL IN THE DIFFS
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.



Rear diff

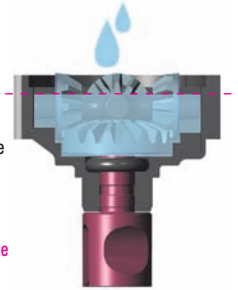
Silicone oil 5.000cSt
Fill just above the diff pin.



Fill differential up to the top of the diff pin.



DO NOT fill the diff to the top of the housing.



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



1 Put the diff (without oil) on the scale and check the weight (approximately 11.92g)

$$11.92g + 1.30g = 13.22g$$

#107865
HUDY Ultimate Digital Pocket Scale 300g ± 0.01g



2 Slowly pour oil into the diff and watch the weight. Add 1.30g of oil into the diff. The approximate weight of the diff including oil is 13.22g.

TIP TIPS FOR REAR DIFFERENTIAL

LOW-MEDIUM TRACTION 5.000cSt (HUDY #106450)
MEDIUM-HIGH TRACTION 7.000cSt (HUDY #106470)

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



HUDY ULTIMATE SILICONE OILS

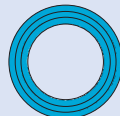
OPTION	HUDY	Oil #	Viscosity	Volume	Status
		#106420	2.000cSt	50ml	OPTION
		#106430	3.000cSt	50ml	OPTION
		#106440	4.000cSt	50ml	OPTION
		#106450	5.000cSt	50ml	INCLUDED
		#106460	6.000cSt	50ml	OPTION
		#106470	7.000cSt	50ml	OPTION
		#106480	8.000cSt	50ml	OPTION
		#106490	9.000cSt	50ml	OPTION
		#106510	10.000cSt	50ml	OPTION

SET-UP BOOK

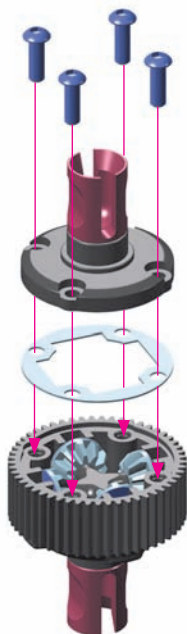
DIFFERENTIAL OIL



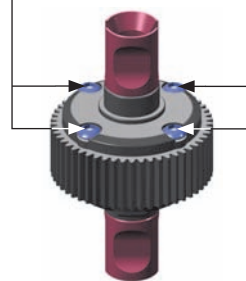
902258
SH M2.5x8



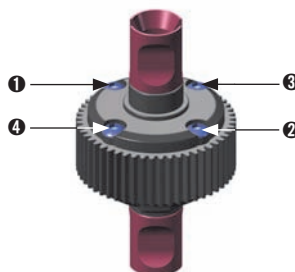
941014
BB 10x15x4



Tighten the screws equally but **DO NOT** tighten them completely.

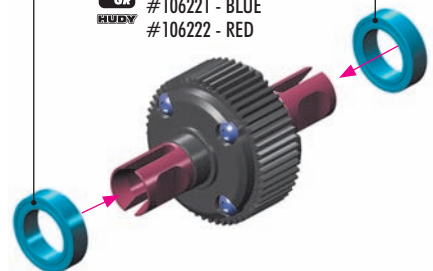


Finish tightening in this order.



Use HUDY Ball-Bearing Grease

- #106220 - STANDARD
- #106221 - BLUE
- #106222 - RED



1. BALL DIFFERENTIAL

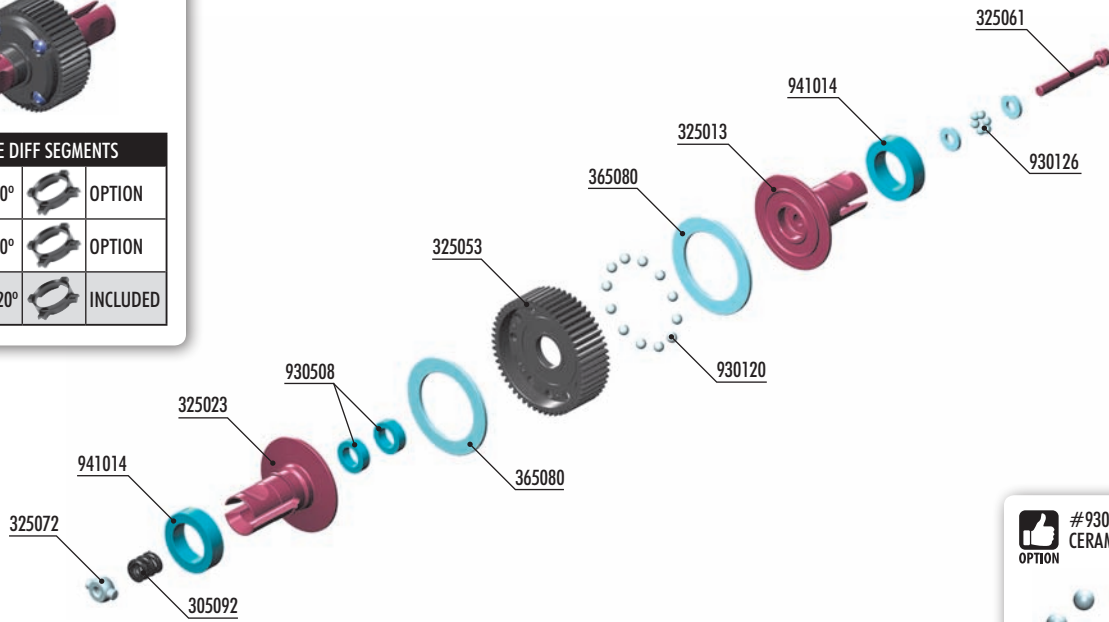


#325100 XRAY XB2 ACTIVE DIFFERENTIAL - SET

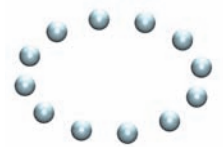


ACTIVE DIFF SEGMENTS

#325123	60°		OPTION
#325125	90°		OPTION
#325127	120°		INCLUDED



#930220 CERAMIC BALL 2.4MM (12)
OPTION



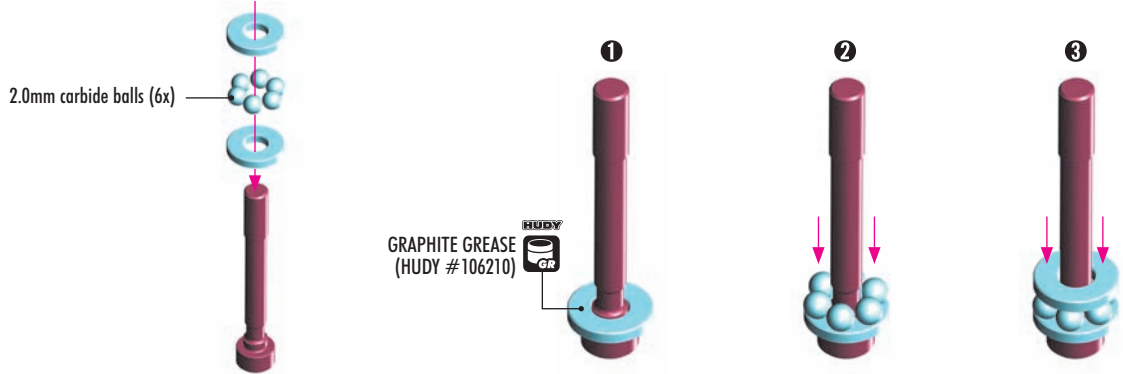
BAG

01

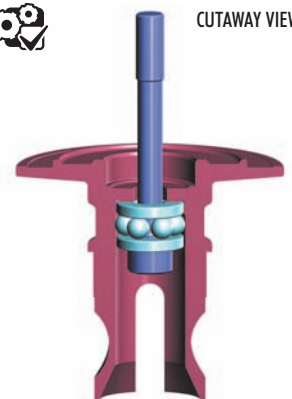
- | | | | |
|--------|---|--------|---|
| 305092 | BALL DIFFERENTIAL SPRING | 325072 | ALU BALL DIFFERENTIAL NUT |
| 325003 | BALL ADJUSTABLE DIFFERENTIAL - LCG - SET - HUDY SPRING STEEL™ | 365080 | DIFF WASHER 17 x 24.5 x 1 (2) |
| 325013 | BALL DIFFERENTIAL SHORT OUTPUT SHAFT - LCG - HUDY SPRING STEEL™ | 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) |



930126
BA 2.6x6x1



CUTAWAY VIEW

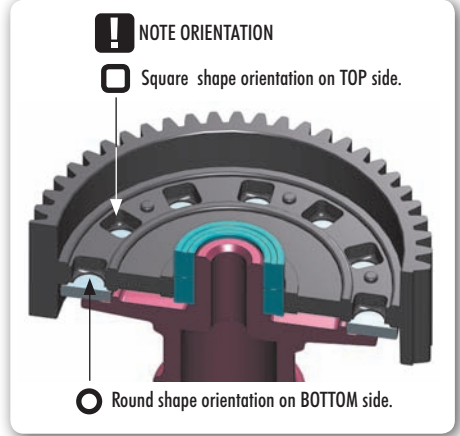
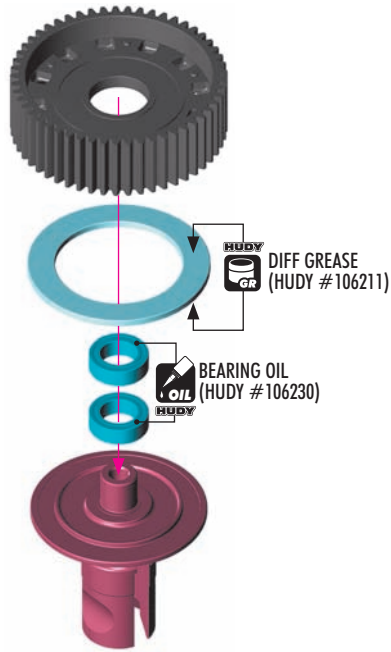


1. BALL DIFFERENTIAL

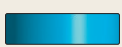
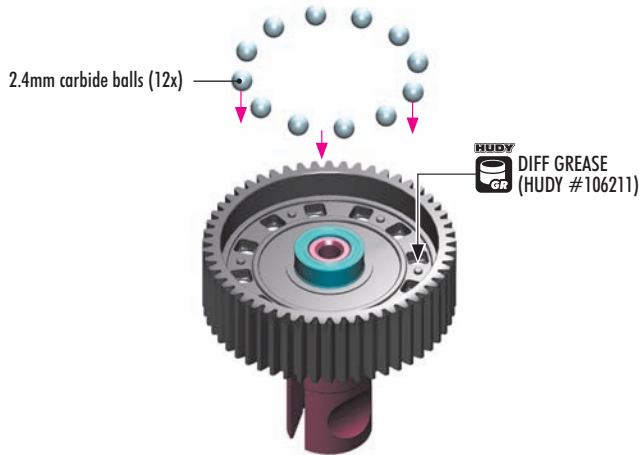
DIRT



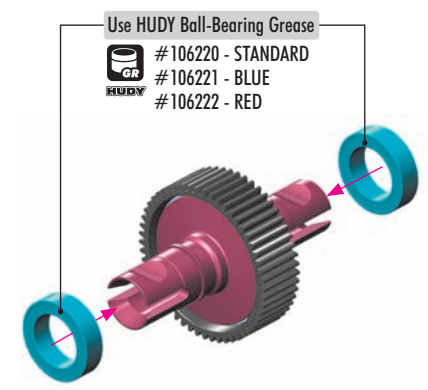
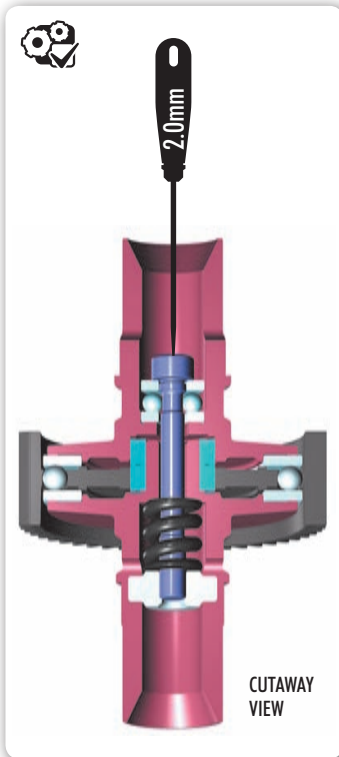
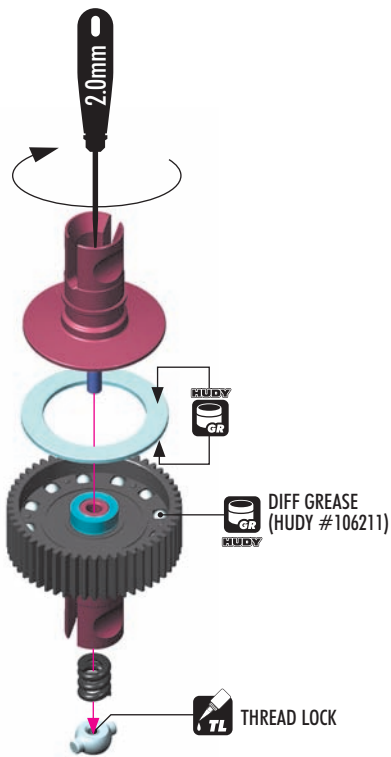
930508
BB 5x8x2.5



930120
B 2.4



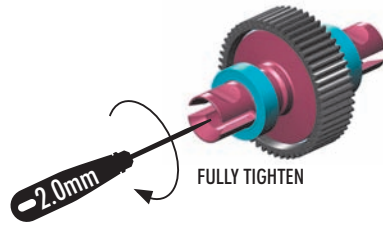
941014
BB 10x15x4



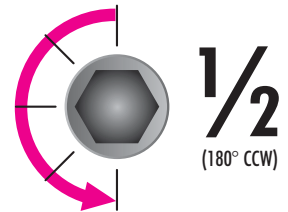
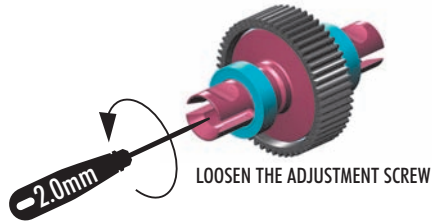


BEFORE RACING, follow these steps to properly break in the differential.

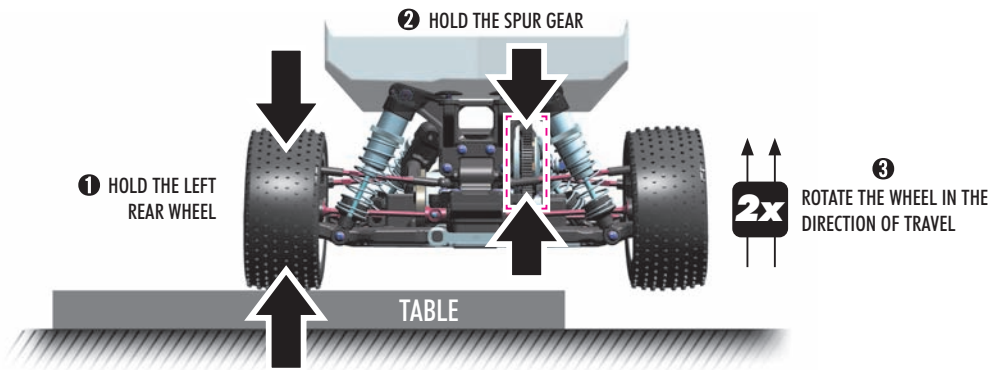
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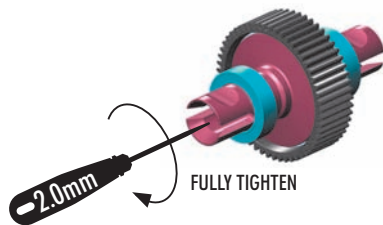
2 Loosen the adjustment screw 1/2 turn (180° CCW).



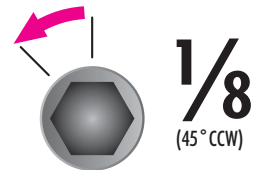
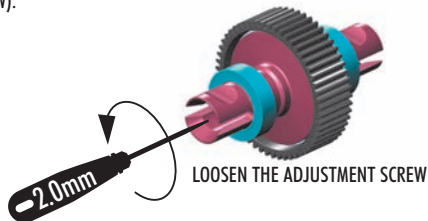
3



4

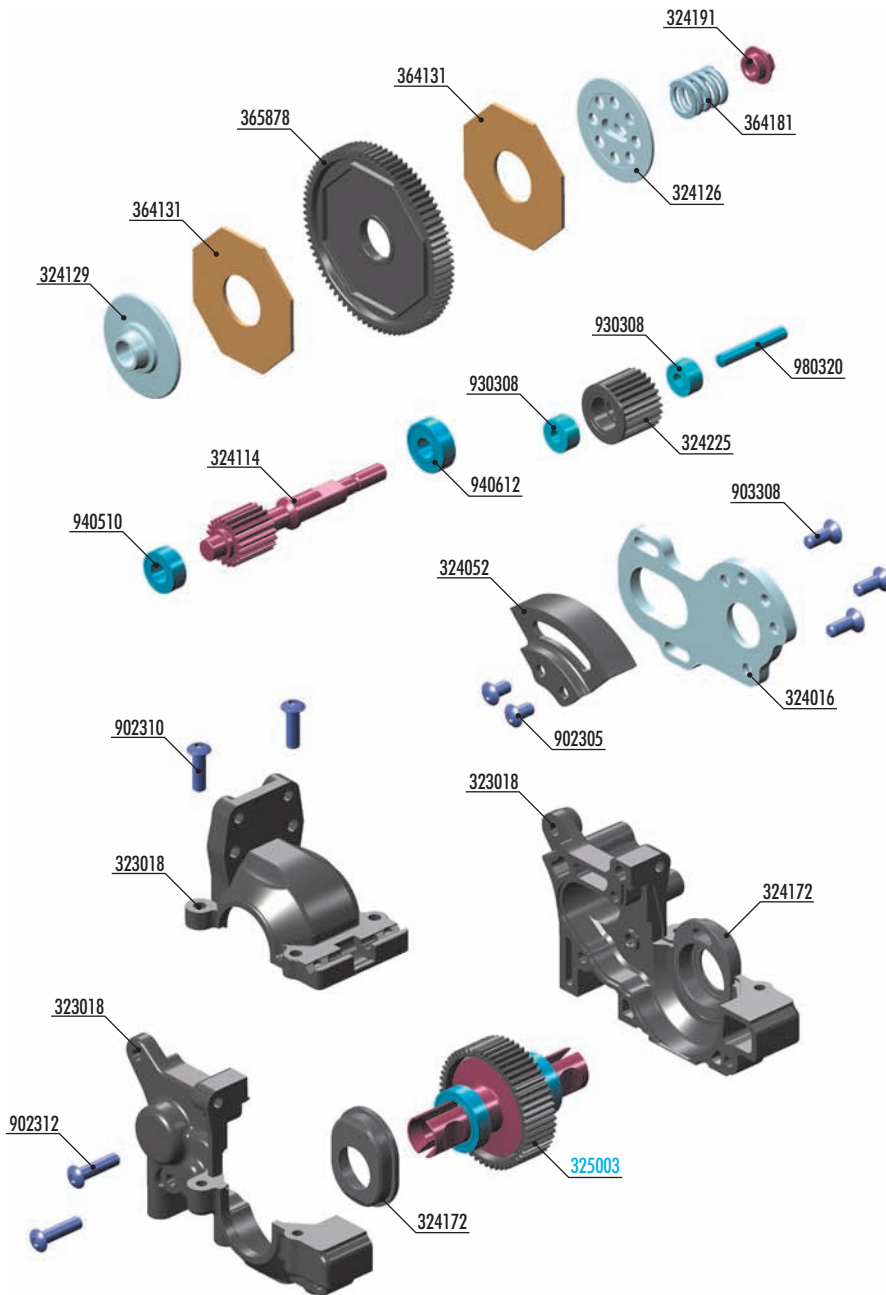


5 LOOSEN THE ADJUSTMENT SCREW 1/8 TURN (45° CCW).



2. REAR TRANSMISSION

DIRT



#323018-G
REAR MOTOR GEAR BOX - LCG - GRAPHITE



324017
GRAPHITE MOTOR PLATE - LCG - 3.0MM



#980320-T
Titan Pin 3x20 (2)

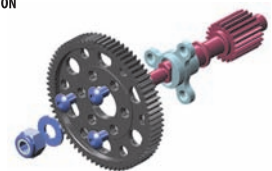


SLIPPER CLUTCH SPUR GEARS

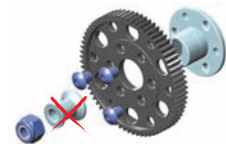
#365875	75T / 48	OPTION
#365878	78T / 48	INCLUDED
#365881	81T / 48	OPTION



#324102
SOLID AXLE - LCG - LIGHTWEIGHT - SET



#324101
SLIPPER ELIMINATOR - SET
(69T / 48 SPUR GEAR)



#325872
SLIPPER ELIMINATOR SPUR GEAR 72T / 48



BAG

02

323018 COMPOSITE REAR MOTOR GEAR BOX - LCG - SET
324016 ALU MOTOR PLATE - LCG - SWISS 7075 T6
324052 COMPOSITE GEAR COVER - LCG
324114 ALU 2-PAD TOP SHAFT 20T - LCG - 7075 T6 - HARD COATED
324126 ALU 2-PAD SLIPPER CLUTCH PLATE - SHORT
324129 ALU 2-PAD SLIPPER CLUTCH PLATE WITH ADAPTER - LCG
324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB (2)
324191 STEEL SLIPPER CLUTCH NUT - HUDY SPRING STEEL™
324225 COMPOSITE GEAR 25T - 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)

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)

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

2. REAR TRANSMISSION

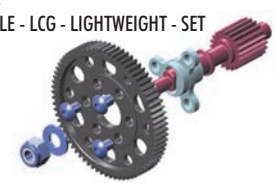
DIRT

930308
BB 3x8x4

940612
BB 6x12x4

980320
P 3x20

#324102
OPTION
SOLID AXLE - LCG - LIGHTWEIGHT - SET



BEARING OIL (HUDY #106230)

Bearing with BLUE rubber covers

6x12x4mm


GRAPHITE GREASE (HUDY #106210)

BEARING OIL (HUDY #106230)

3x8x4mm

NOTE ORIENTATION

#980320-T
OPTION
Titan Pin 3x20 (2)



902312
SH M3x12


940510
BB 5x10x4

BEARING OIL (HUDY #106230)

Bearing with BLUE rubber covers






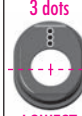
5x10x4mm

#323018-G
OPTION
REAR MOTOR GEAR BOX - LCG - GRAPHITE



902310
SH M3x10

DIFFERENTIAL HEIGHT ADJUSTMENT

					
HIGHEST	HIGHER	MIDDLE	MIDDLE	LOWER	LOWEST
3 dots	2 dots	1 dots	1 dots	2 dots	3 dots

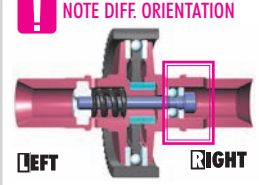
INITIAL SETTING

L=R

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

NOTE ORIENTATION

NOTE DIFF. ORIENTATION



LEFT RIGHT

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.

FRONT REAR

LEFT RIGHT

GRAPHITE GREASE (HUDY #106210)

2. REAR TRANSMISSION

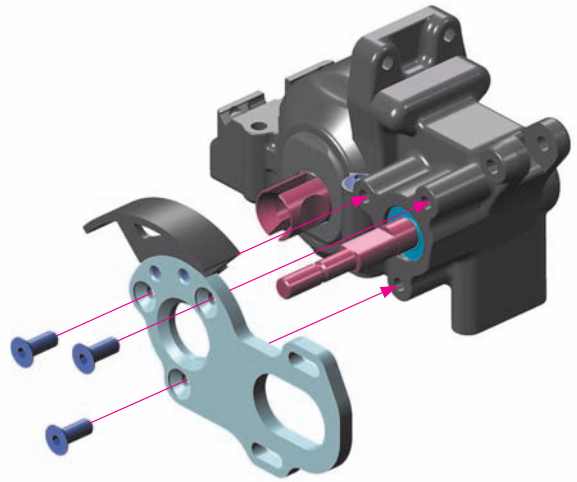
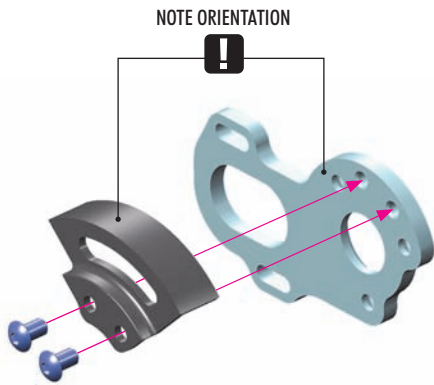
DIRT



902305
SH M3x5

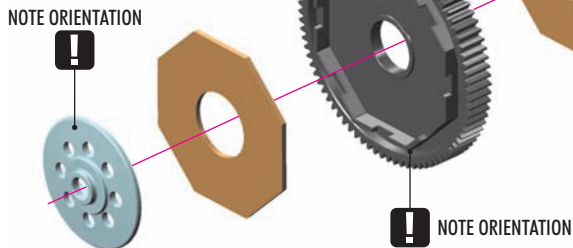


903308
SFH M3x8



OPTION #324101
SLIPPER ELIMINATOR - SET
(69T / 48 SPUR GEAR)


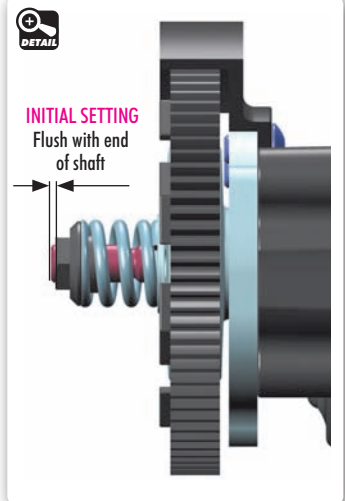
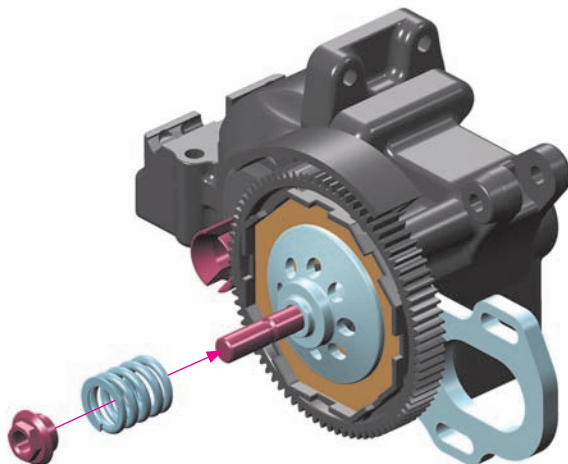
OPTION #325872
SLIPPER ELIMINATOR
SPUR GEAR 72T / 48



NOTE ORIENTATION !

OPTION SLIPPER CLUTCH SPUR GEARS

#365875	75T / 48	OPTION
#365878	78T / 48	INCLUDED
#365881	81T / 48	OPTION

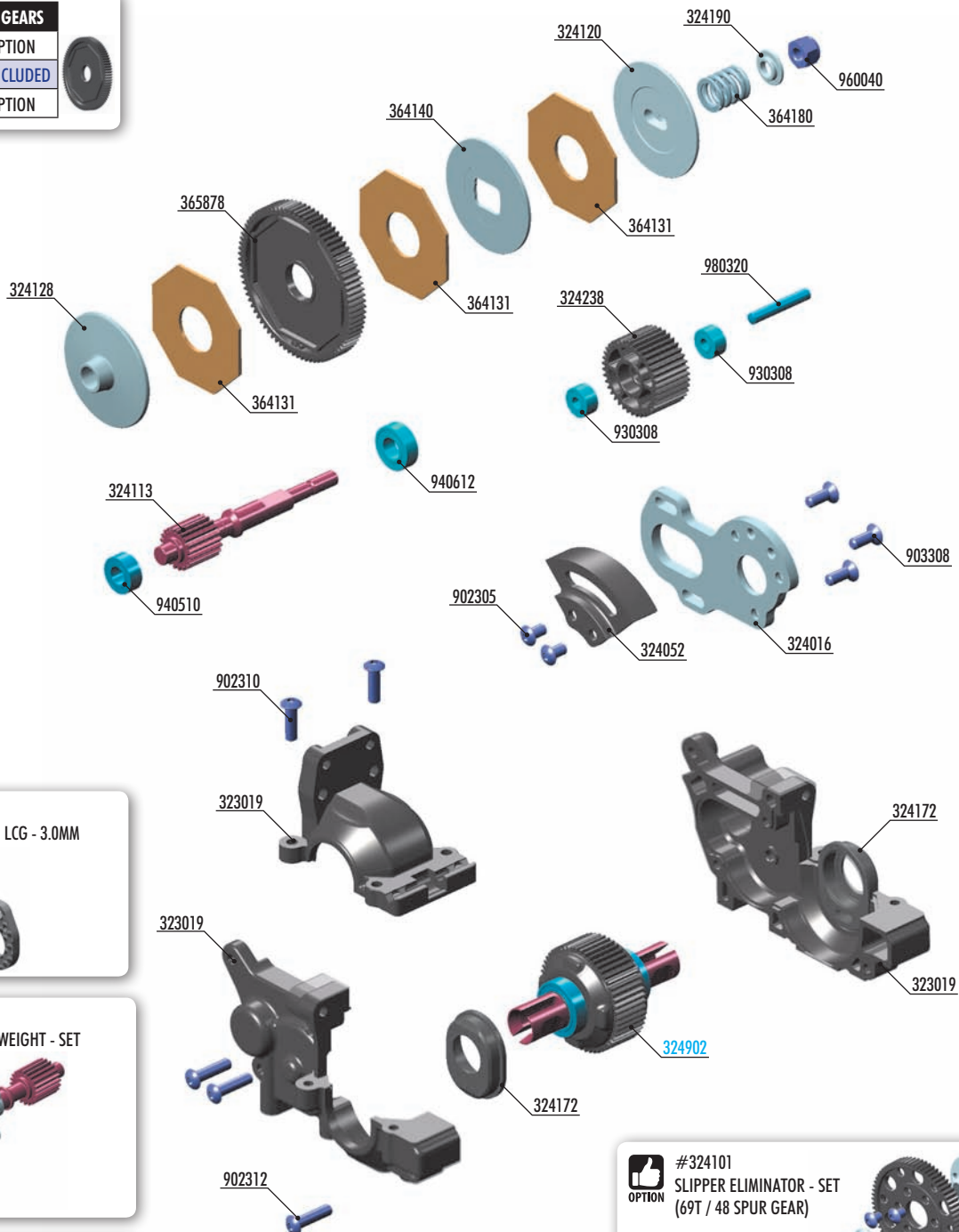
2. REAR TRANSMISSION

CARPET



SLIPPER CLUTCH SPUR GEARS

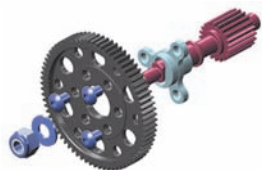
#365875	75T / 48	OPTION
#365878	78T / 48	INCLUDED
#365881	81T / 48	OPTION



324017
GRAPHITE MOTOR PLATE - LCG - 3.0MM



#324102
SOLID AXLE - LCG - LIGHTWEIGHT - SET



#323019-G
FRONT MOTOR GEAR BOX - LCG - GRAPHITE



#324101
SLIPPER ELIMINATOR - SET
(69T / 48 SPUR GEAR)



#325872
SLIPPER ELIMINATOR
SPUR GEAR 72T / 48



BAG

02

323019 COMPOSITE FRONT MOTOR GEAR BOX - LCG - SET
324016 ALU MOTOR PLATE - LCG - SWISS 7075 T6 (3MM)
324052 COMPOSITE GEAR COVER - LCG
324113 ALU 3-PAD TOP SHAFT 20T - LCG - SWISS 7075 T6 - HARD COATED
324120 ALU 3-PAD SLIPPER CLUTCH PLATE - SWISS 7075 T6
324128 ALU 3-PAD SLIPPER CLUTCH PLATE WITH ADAPTER - LCG
324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB (2)
324190 ALU 3-PAD SLIPPER CLUTCH SHIM
324238 COMPOSITE GEAR 38T - LCG - GRAPHITE
364131 SLIPPER CLUTCH PAD "SLS" - V2 (2)
364140 ALU 3-PAD SLIPPER CLUTCH PLATE DISC - 7075 T6
364180 SLIPPER CLUTCH SPRING C=30 - BLACK
365878 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 78T / 48

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

324902 GEAR DIFFERENTIAL - LCG - SET

930308
BB 3x8x4
940612
BB 6x12x4
980320
P 3x20

BEARING OIL (HUDY #106230)
 Bearing with BLUE rubber covers
 6x12x4mm
 GRAPHITE GREASE (HUDY #106210)
 BEARING OIL (HUDY #106230)
 3x8x4mm
 3x8x4mm

902312
SH M3x12
940510
BB 5x10x4

BEARING OIL (HUDY #106230)
 Bearing with BLUE rubber covers
 #323019-G FRONT MOTOR GEAR BOX - LCG - GRAPHITE OPTION

902310
SH M3x10

DIFFERENTIAL HEIGHT ADJUSTMENT

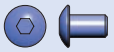
2x HIGHEST	HIGHER	MIDDLE	1 dots	2 dots	3 dots
3 dots	2 dots	1 dots	MIDDLE	LOWER	LOWEST

INITIAL SETTING
 L=R
 NOTE ORIENTATION
 Dots must have same orientation on each side (dots up or down).

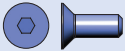
"CLICK"
 GRAPHITE GREASE (HUDY #106210)
 NOTE ORIENTATION
 L=R

2. REAR TRANSMISSION

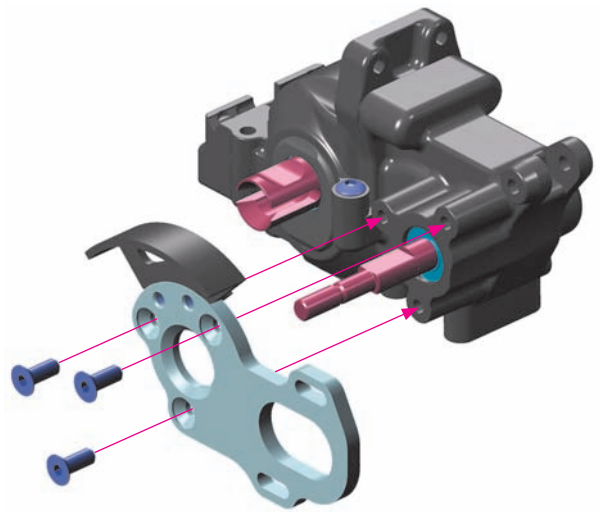
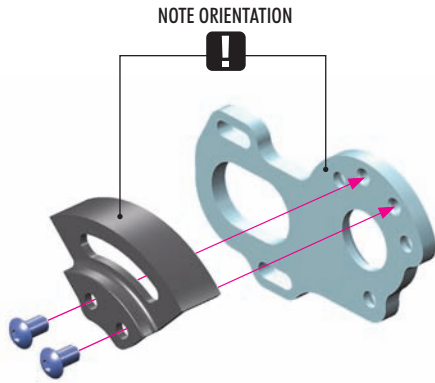
CARPET



902305
SH M3x5



903308
SFH M3x8

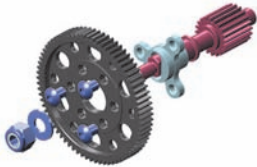


SLIPPER CLUTCH SPUR GEARS

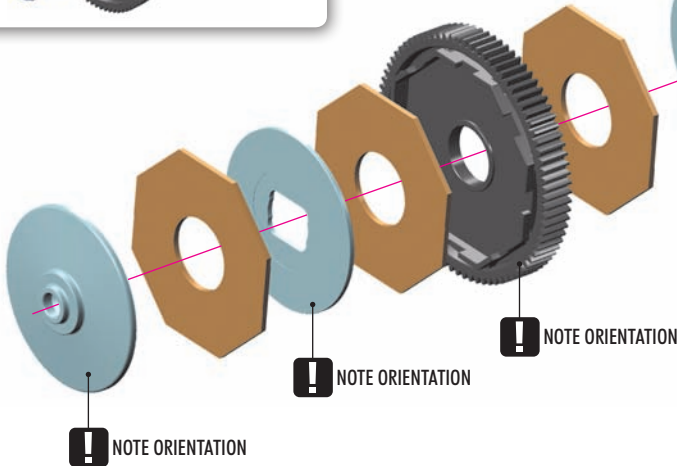
#365875	75T / 48	OPTION
#365878	78T / 48	INCLUDED
#365881	81T / 48	OPTION



#324102
SOLID AXLE - LCG - LIGHTWEIGHT - SET



NOTE ORIENTATION



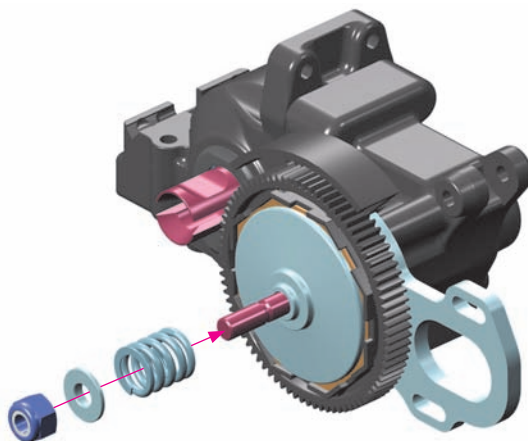
#324101
SLIPPER ELIMINATOR - SET
(69T / 48 SPUR GEAR)



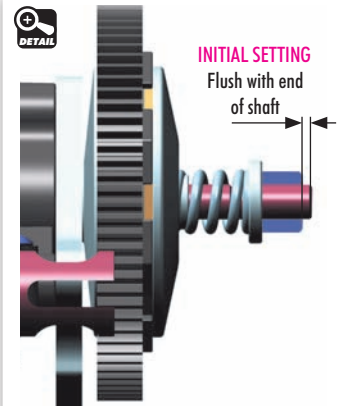
#325872
SLIPPER ELIMINATOR
SPUR GEAR 72T / 48



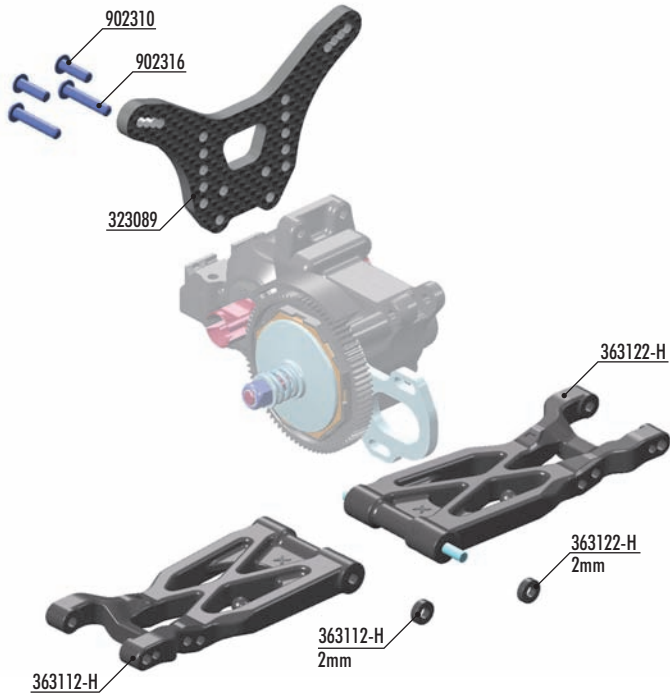
960040
N M4



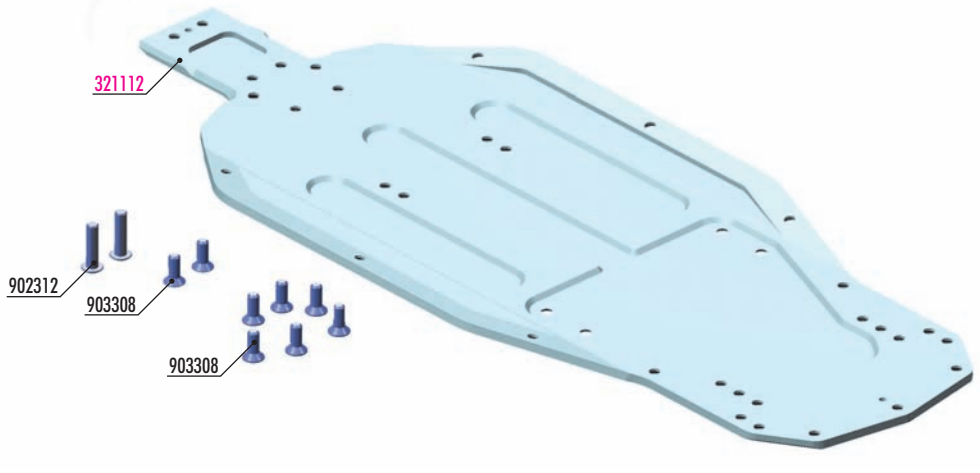
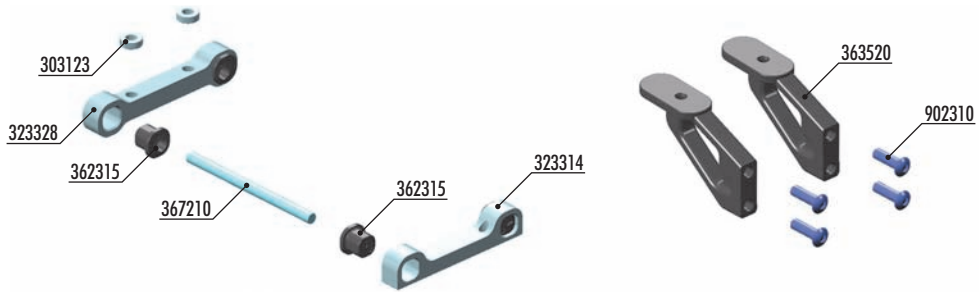
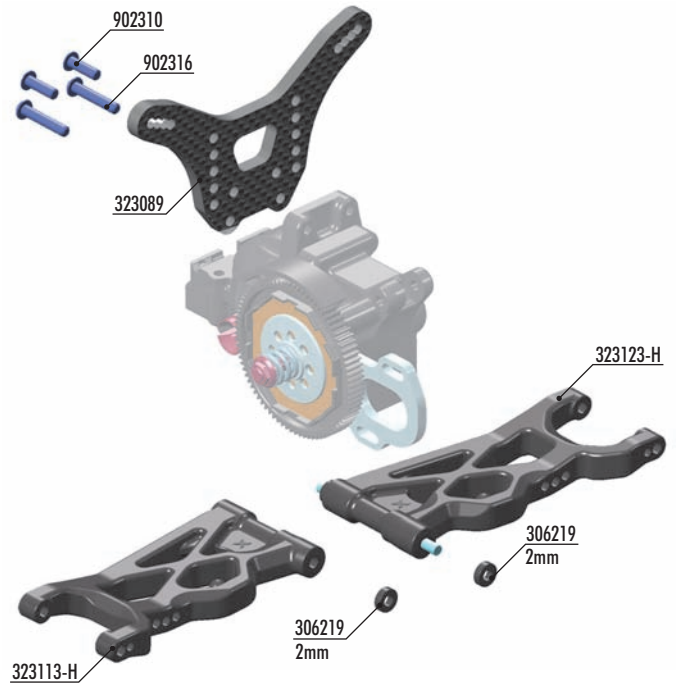
DETAIL



GEAR BOX for CARPET FRONT MOTOR POSITION

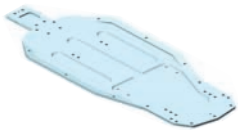


GEAR BOX for DIRT REAR MOTOR POSITION



XB2 CHASSIS

#	DESCRIPTION	STATUS
#321114	SHORT	OPTION
#321112	MID	INCLUDED
#321113	LONG	OPTION



BAG

03

- 303123 ALU SHIM 3x6x2.0MM (10)
- 323089 GRAPHITE SHOCK TOWER - 4-HOLES - LCG - REAR - 4.0MM
- 323314 ALU REAR LOWER SUSP. HOLDER FOR BENT SIDES CHASSIS - FRONT
- 323328 ALU REAR LOWER SUSP. HOLDER FOR BENT SIDES CHASSIS - REAR
- 362315 ECCENTRIC BUSHING SET (2)
- 363520 REAR WING POST (2)
- 367210 REAR SUSPENSION PIVOT PIN (2)
- 902310 HEX SCREW SH M3x10 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 902316 HEX SCREW SH M3x16 (10)
- 903308 HEX SCREW SFH M3x8 (10)

321112 XB2'22 ALU CHASSIS WITH BENT SIDES - SWISS 7075 T6 - 2.5MM

CARPET

- 363112-H COMPOSITE SUSPENSION ARM REAR LOWER RIGHT - HARD
- 363122-H COMPOSITE SUSPENSION ARM REAR LOWER LEFT - HARD

DIRT

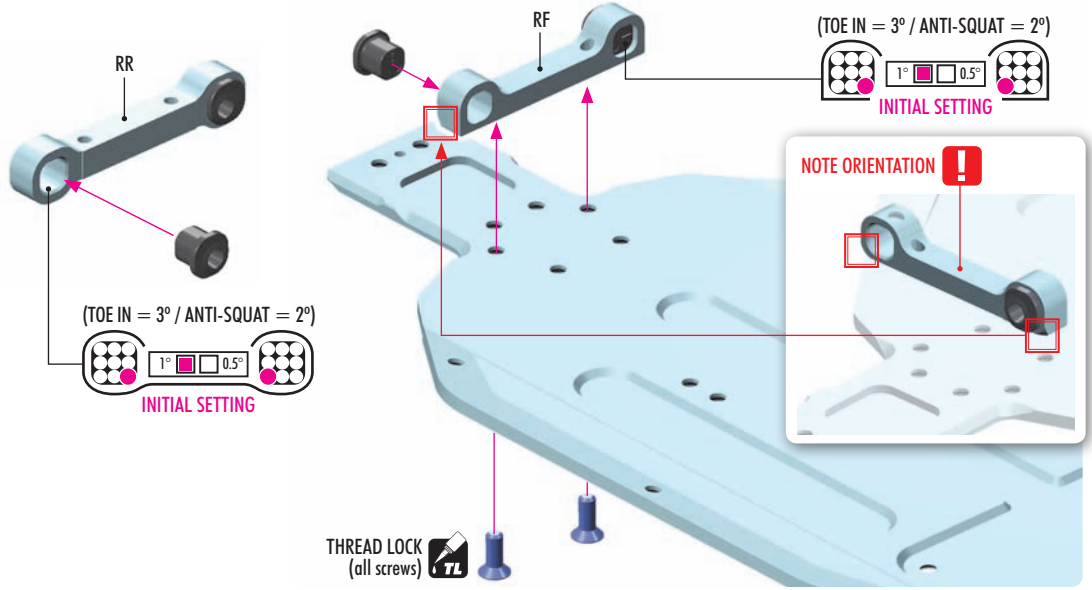
- 306219 COMPOSITE SET OF SHIMS (4)
- 323113-H SUSPENSION ARM DISENGAGED REAR LOWER RIGHT - HARD
- 323123-H SUSPENSION ARM DISENGAGED REAR LOWER LEFT - HARD

3. REAR SUSPENSION

CARPET DIRT



903308
SFH M3x8



SET-UP BOOK

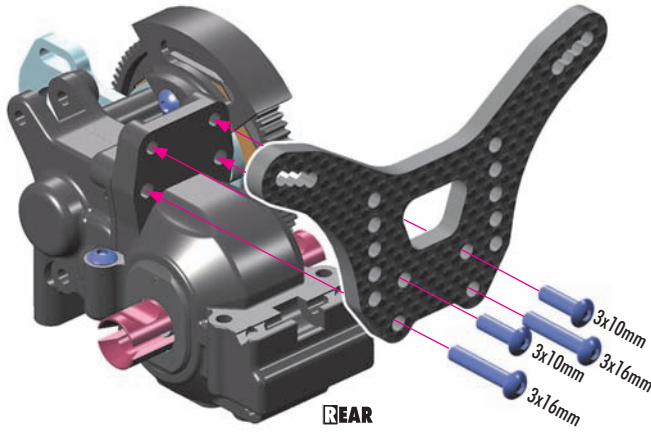
TOE-IN
ANTI-SQUAT
ROLL CENTER
TRACK-WIDTH



902310
SH M3x10



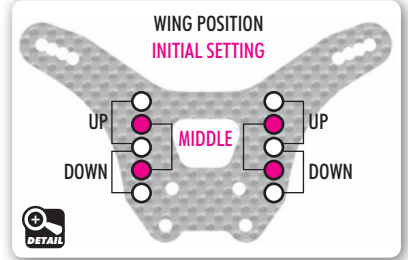
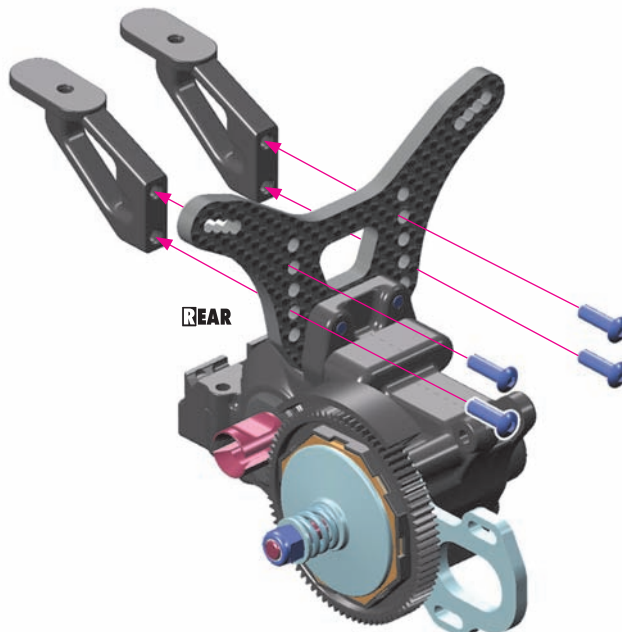
902316
SH M3x16



#323088
ALU REAR SHOCK TOWER



902310
SH M3x10

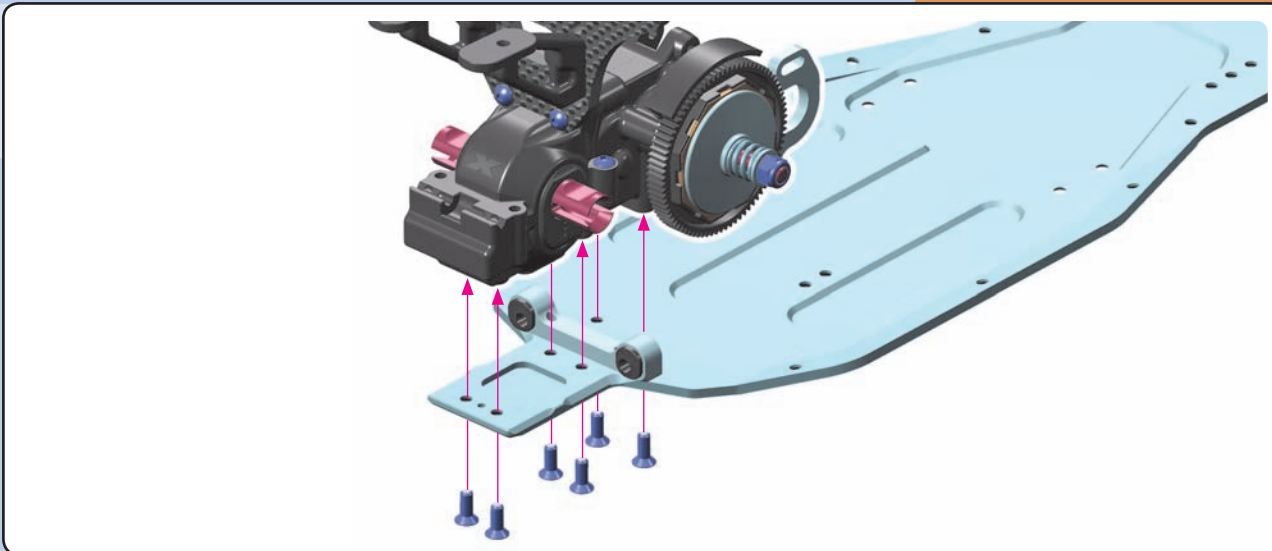


3. REAR SUSPENSION

CARPET DIRT



903308
SFH M3x8

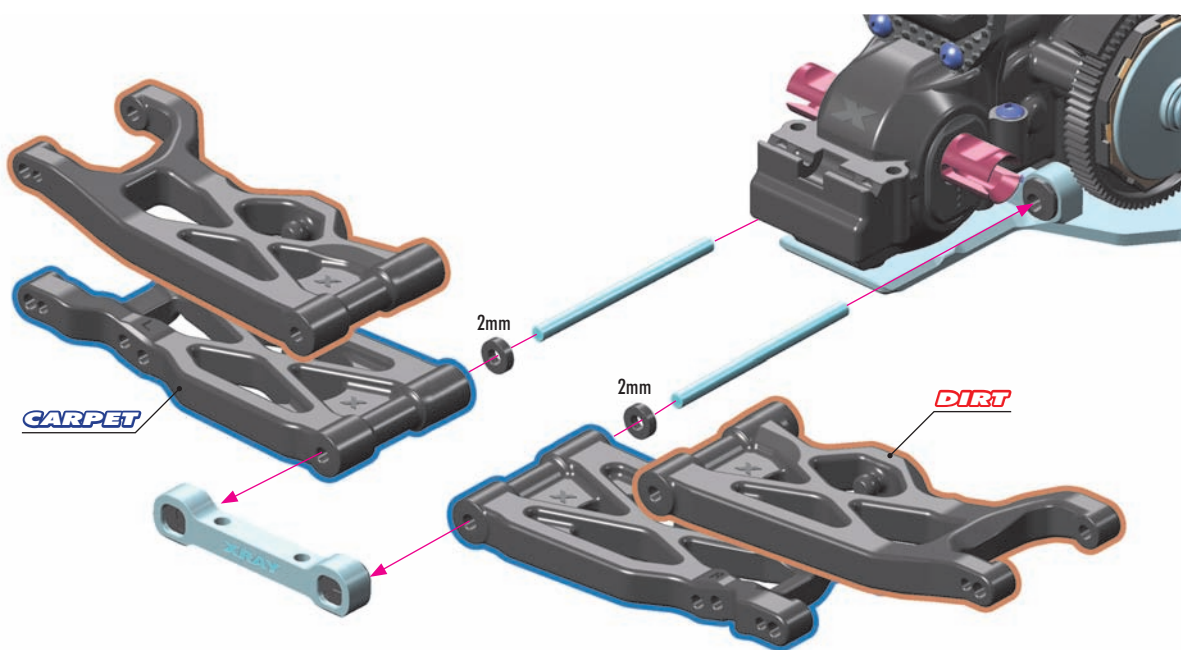


IO

From Rear Arm
SHIM 3x6.5x2
CARPET

IO

306219
SHIM 3x6x2
DIRT



REAR SUSPENSION ARMS DIRT				
#323113-H	RIGHT	HARD	INCLUDED	
#323123-H	LEFT	HARD	INCLUDED	
#323113-G	RIGHT	GRAPHITE	OPTION	
#323123-G	LEFT	GRAPHITE	OPTION	

REAR SUSPENSION ARMS CARPET

#363112-H	RIGHT	HARD	INCLUDED	
#363122-H	LEFT	HARD	INCLUDED	
#363112-G	RIGHT	GRAPHITE	OPTION	
#363122-G	LEFT	GRAPHITE	OPTION	

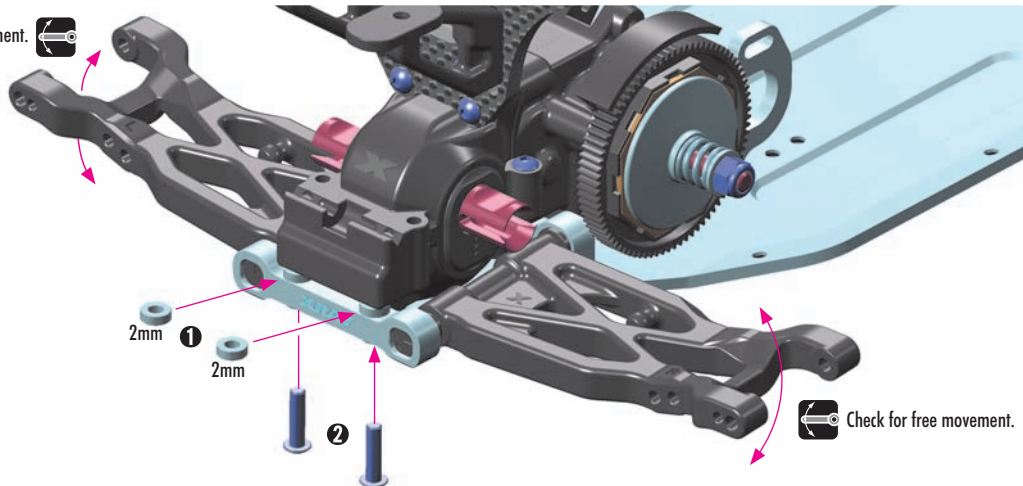


303123
SHIM 3x6x2



902312
SH M3x12

Check for free movement.





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

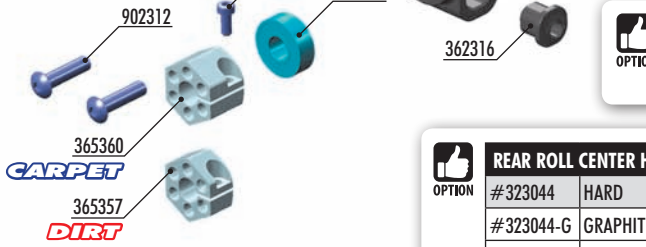
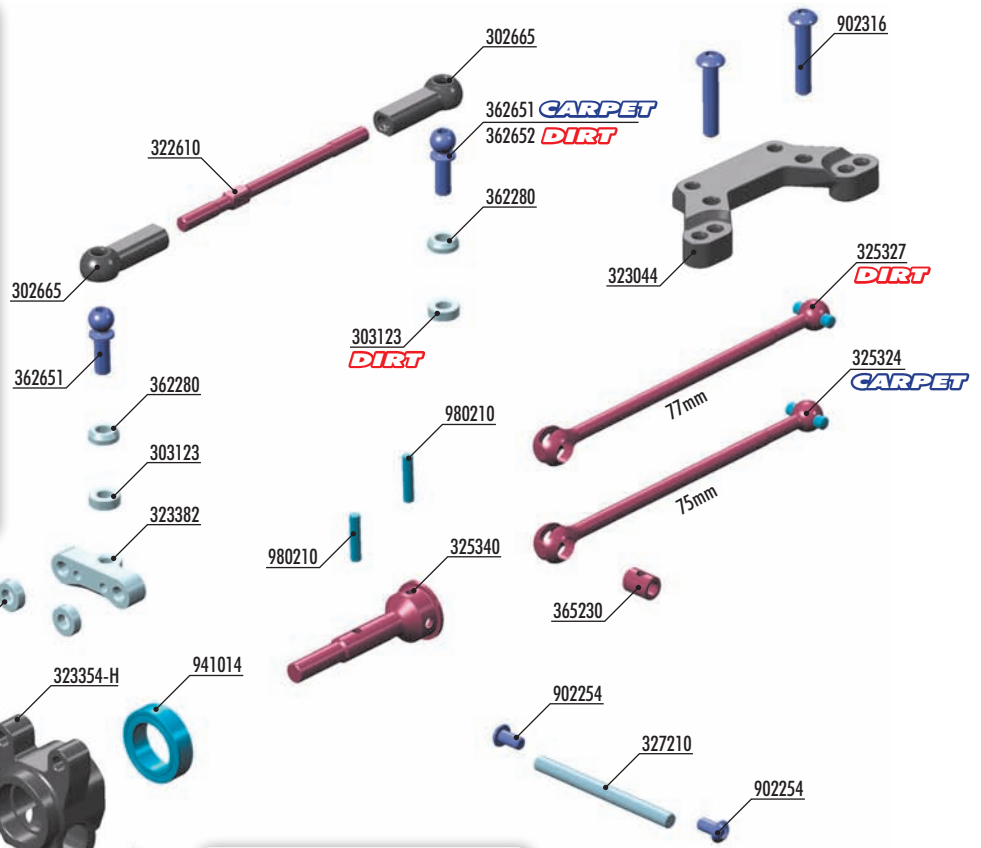
Different offset hex hubs are used to increase or decrease the track-width.

LESS OFFSET

Rear - more traction
Front - more steering

MORE OFFSET

Rear - less traction
Front - less steering



#305231
OPTION DRIVE SHAFT COUPLING
HUDY SPRING STEEL

#305231
OPTION

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

#323381
OPTION ALU REAR HUB PLATE FOR MULTI ADJUSTABLE UPRIGHT - SWISS 7075 T6

#305231
OPTION

XRAY BALL-BEARING			
#940512	5x12x4mm	OIL	OPTION
#941015	10x15x4mm	OIL	OPTION
#940513	5x12x4mm	GREASE	INCLUDED
#941014	10x15x4mm	GREASE	INCLUDED

#305231
OPTION

ALU CONICAL SHIM			
#362280	SILVER	INCLUDED	
#362280-K	BLACK	OPTION	
#362280-O	ORANGE	OPTION	

#305231
OPTION

REAR UPRIGHTS		
#323354-H	HARD	INCLUDED
#323354-G	GRAPHITE	OPTION
#323355	ALU	OPTION

#305231
OPTION

#325341 REAR ADJUSTABLE DRIVE AXLE LB - HUDY SPRING STEEL™
#325390 ALU SHIM 10x12x2MM (2)

#305231
OPTION

#323400 REAR ANTI-ROLL BAR 1.0MM SET

#305231
OPTION

ANTI-ROLL BARS	
#362470	1.0mm
#362471	1.1mm
#362472	1.2mm
#362473	1.3mm



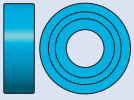
- | | | | |
|----------|--|--------|---|
| 302665 | COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4) | 902312 | HEX SCREW SH M3x12 (10) |
| 303123 | ALU SHIM 3x6x2.0MM (10) | 902316 | HEX SCREW SH M3x16 (10) |
| 306219 | COMPOSITE SET OF SHIMS (4) | 940513 | BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2) |
| 322610 | ADJUSTABLE TURNBUCKLE 55MM M3 L/R - HUDY SPRING STEEL™ (2) | 941014 | BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2) |
| 323044 | COMPOSITE REAR ROLL CENTER HOLDER FOR ANTI-ROLL BAR | 980210 | PIN 2x9.8 (10) |
| 323354-H | COMPOSITE UPRIGHT REAR - HARD | | |
| 323382 | ALU REAR HUB PLATE FOR MULTI ADJ. UPRIGHT - 1-HOLE - SWISS 7075 T6 | | |
| 325340 | REAR DRIVE AXLE LB - HUDY SPRING STEEL™ | | |
| 327210 | SUSPENSION PIVOT PIN (2) | | |
| 362280 | ALU CONICAL SHIM 3x6x2.0MM (10) | | |
| 362316 | ECCENTRIC BUSHING SET - OPEN (2) | | |
| 362651 | BALL END 4.9MM WITH THREAD 8MM (2) | | |
| 365230 | DRIVE SHAFT COUPLING - HUDY SPRING STEEL™ | | |
| | | | |
| 902205 | HEX SCREW SH M2x5 (10) | | |
| 902254 | HEX SCREW SH M2.5x4 (10) | | |

3. REAR DRIVETRAIN

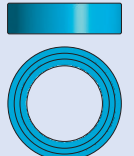
CARPET DIRT



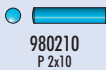
902205
SH M2x5



940513
BB 5x12x4

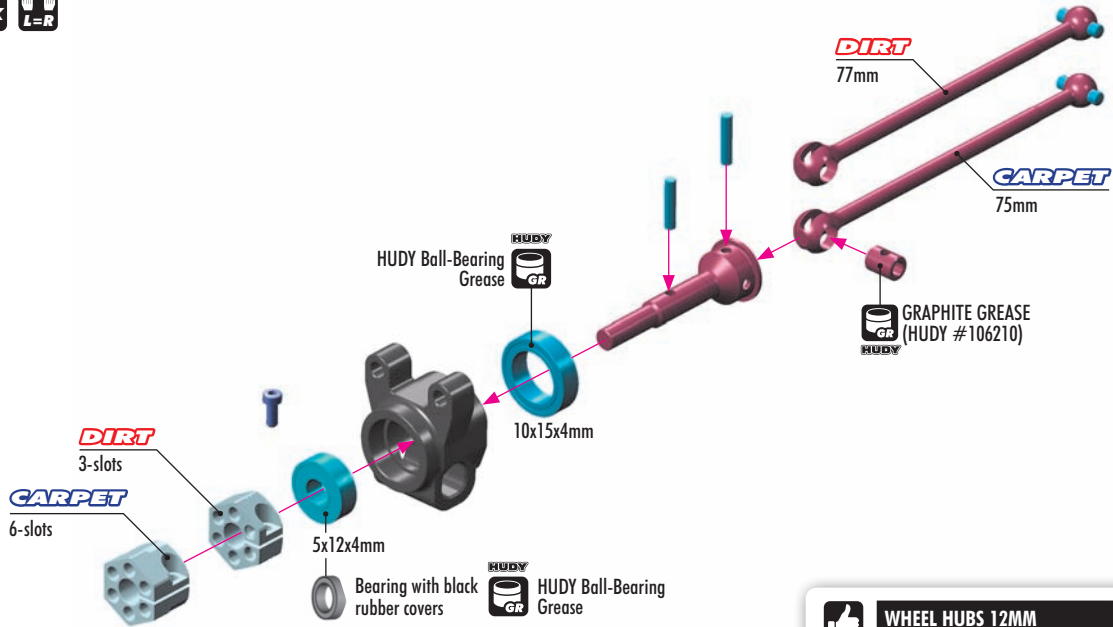


941014
BB 10x15x4



980210
P 2x10

2x L=R



OPTION #305231 DRIVE SHAFT COUPLING HUDY SPRING STEEL

OPTION #325341 REAR ADJUSTABLE DRIVE AXLE LB HUDY SPRING STEEL™

OPTION #325390 ALU SHIM 10x12x2MM (2)

OPTION XRAY BALL-BEARING

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

OPTION REAR UPRIGHTS

#323354-H	HARD	INCLUDED
#323354-G	GRAPHITE	OPTION
#323355	ALU	OPTION

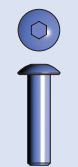
OPTION WHEEL HUBS 12MM

#365360	+4.5mm	- 6 SLOTS	INCLUDED
#365359	+3.75mm	- 5 SLOTS	OPTION
#365358	+3.0mm	- 4 SLOTS	OPTION
#365357	+2.25mm	- 3 SLOTS	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
MORE OFFSET Rear - less traction
Front - more steering Front - less steering

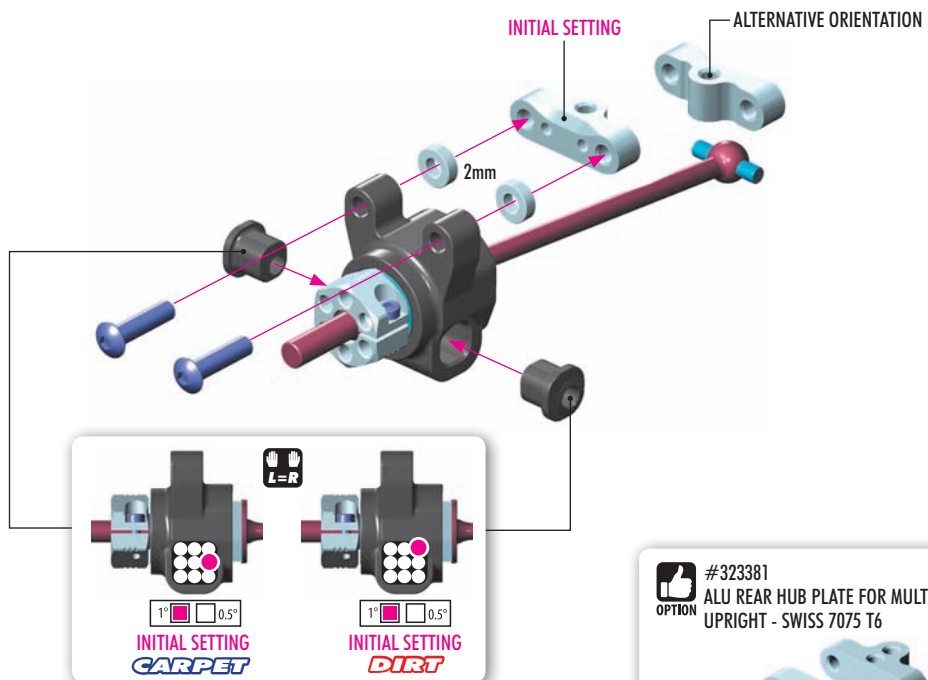


303123
SHIM 3x6x2



902312
SH M3x12

2x L=R



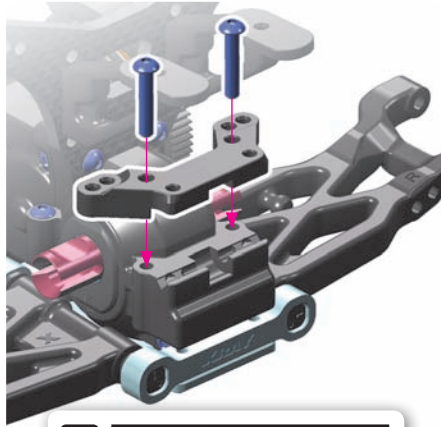
OPTION #323381 ALU REAR HUB PLATE FOR MULTI ADJUSTABLE UPRIGHT - SWISS 7075 T6

3. REAR DRIVETRAIN

CARPET DIRT

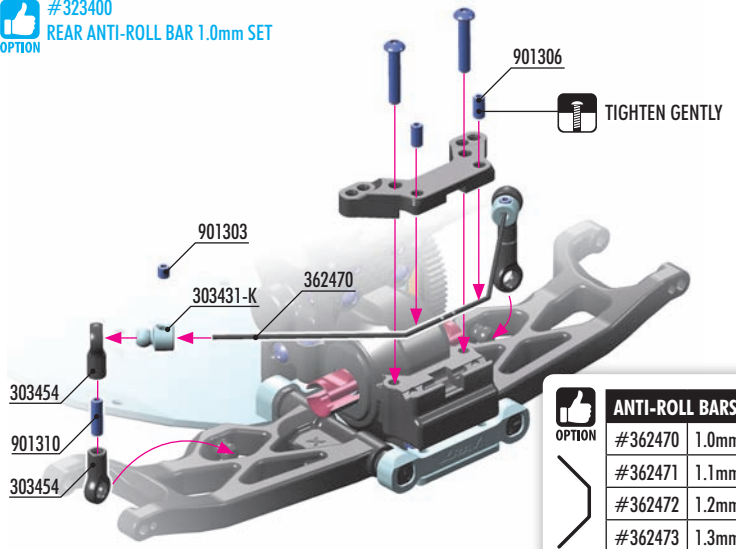


902316
SH M3x16



OPTION	#323044	HARD	INCLUDED
	#323044-G	GRAPHITE	OPTION
	#323043	ALU	OPTION

#323400
REAR ANTI-ROLL BAR 1.0mm SET



OPTION	ANTI-ROLL BARS	
	#362470	1.0mm
	#362471	1.1mm
	#362472	1.2mm
	#362473	1.3mm



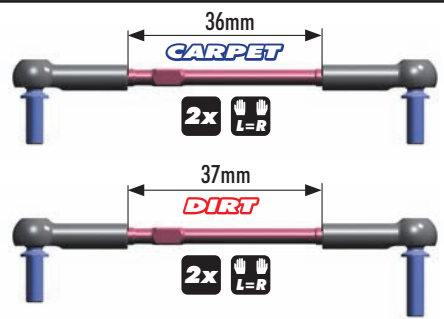
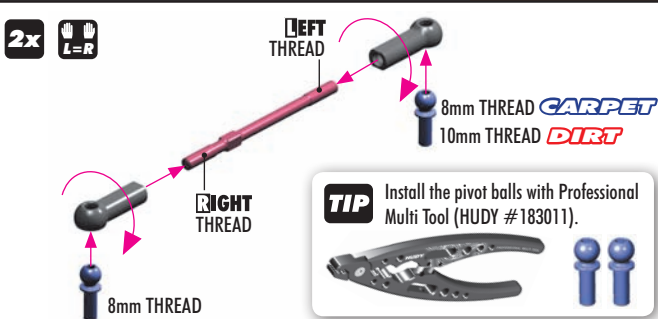
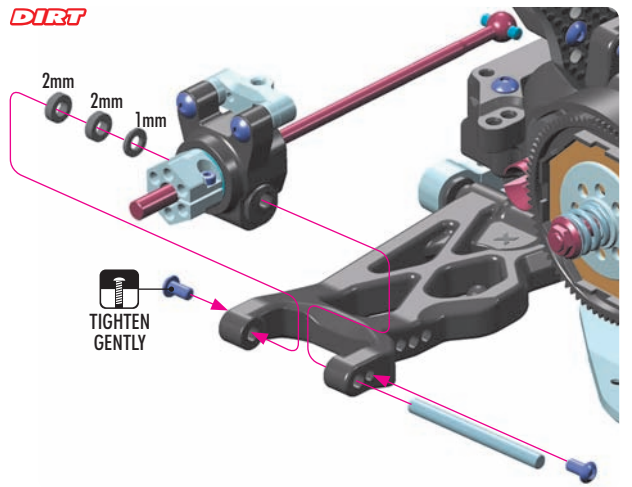
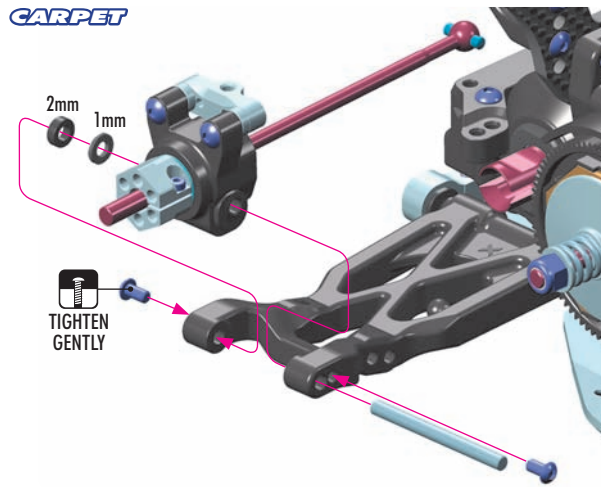
306219
SHIM 3x6x1



306219
SHIM 3x6x2



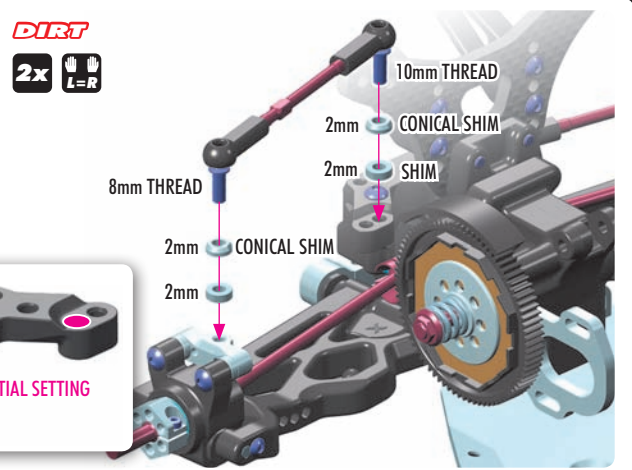
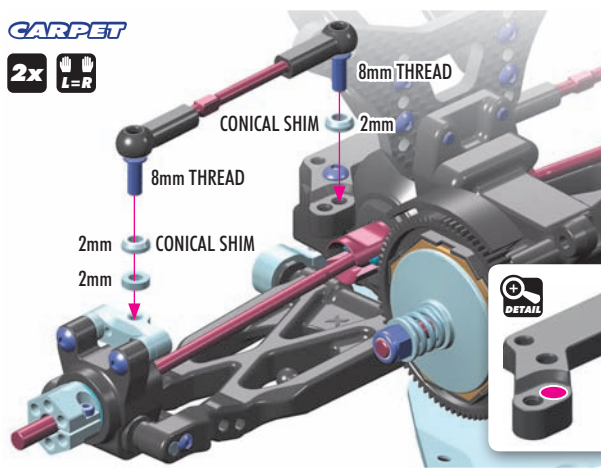
902254
SH M2.5x4



303123
SHIM 3x6x2

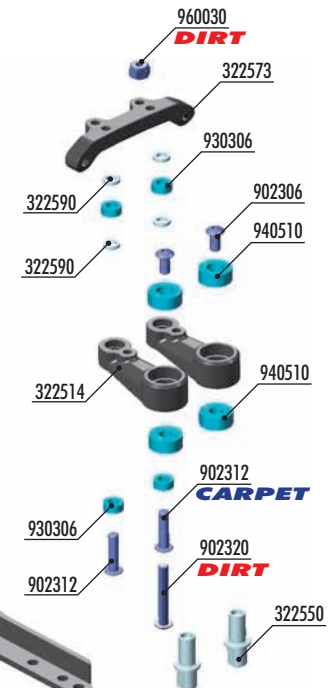


362280
CON. SHIM 3x6x2





FRONT LOWER ARM MOUNT		
#322310	ALU 26°	OPTION
#322311	COMPOSITE 26°	INCLUDED
#322312	BRASS 26°	OPTION
#322313	ALU 23°/29°	OPTION
#321211	SUSP. HOLDER BRACE 23°/29°	OPTION
#322314	BRASS 23°/29°	OPTION
#321211	SUSP. HOLDER BRACE 23°/29°	OPTION

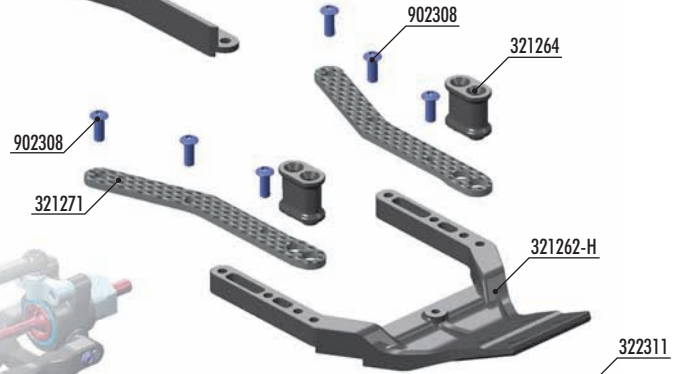


#321250-G
CHASSIS SIDE GUARDS FOR BENT SIDES
CHASSIS L+R - GRAPHITE



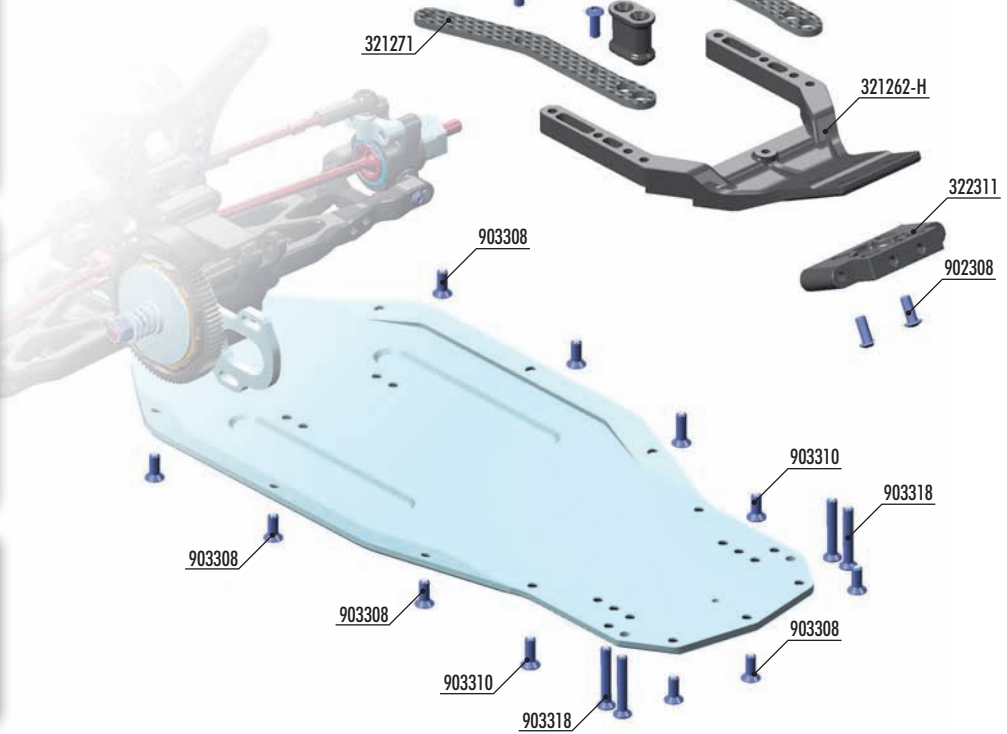
STEERING ARMS

#322514	HARD	INCLUDED
#322514-G	GRAPHITE	OPTION
#322512	ALU	OPTION



STEERING PLATE

#322573	HARD	INCLUDED
#322573-G	GRAPHITE	OPTION
#322572	ALU	OPTION



ALU NUTS M3

#296530-B	BLUE	OPTION
#296530-K	BLACK	OPTION
#296530-O	ORANGE	OPTION
#960031	SILVER	OPTION



BAG

04

- 321250 COMPOSITE CHASSIS SIDE GUARDS FOR BENT SIDES CHASSIS L+R
- 321262-H COMPOSITE CHASSIS FRONT GUARD - HARD - V2
- 321264 COMPOSITE FRONT CHASSIS SIDE BRACE - SHORT (2)
- 321271 GRAPHITE CHASSIS SIDE GUARD BRACE FOR BENT SIDES CHASSIS (2)
- 322311 COMPOSITE FRONT LOWER SUSPENSION HOLDER
- 322514 COMPOSITE STEERING ARM WITH STEERING MOUNT HOLE (2)
- 322550 ALU SERVO SAVER PIVOT SHAFT (2)
- 322573 COMPOSITE STEERING PLATE - FRONT/REAR MOUNTING POSITIONS
- 322590 ALU SHIM 3x4.7x1.0MM (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)
- 903310 HEX SCREW SFH M3x10 (10)
- 903318 HEX SCREW SFH M3x18 (10)
- 930306 BALL-BEARING 3x6x2.5 STEEL SEALED - OIL (2)
- 940510 BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2)

CARPET

- 902312 HEX SCREW SH M3x12 (10)

DIRT

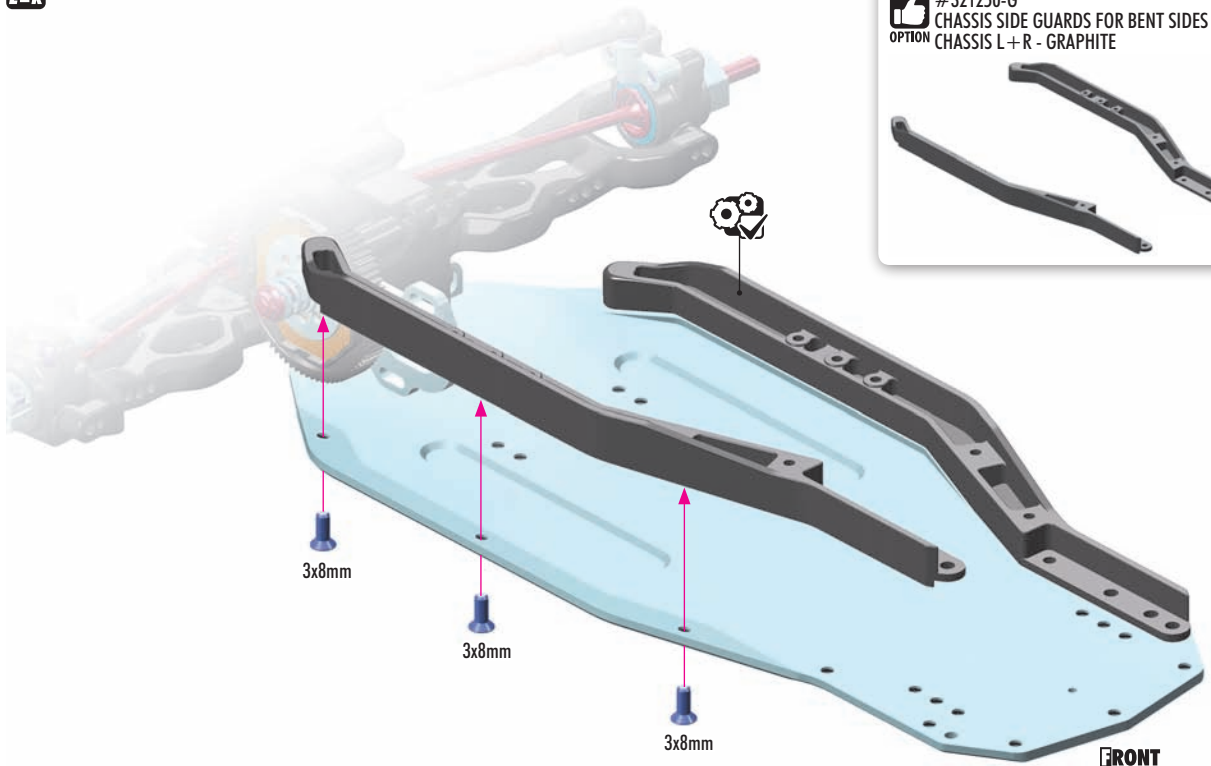
- 902320 HEX SCREW SH M3x20 (10)
- 960030 NUT M3 (10)

4. FRONT ASSEMBLY

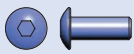
CARPET DIRT



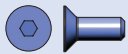
903308
SFH M3x8



#321250-G
CHASSIS SIDE GUARDS FOR BENT SIDES
OPTION CHASSIS L+R - GRAPHITE



902308
SH M3x8



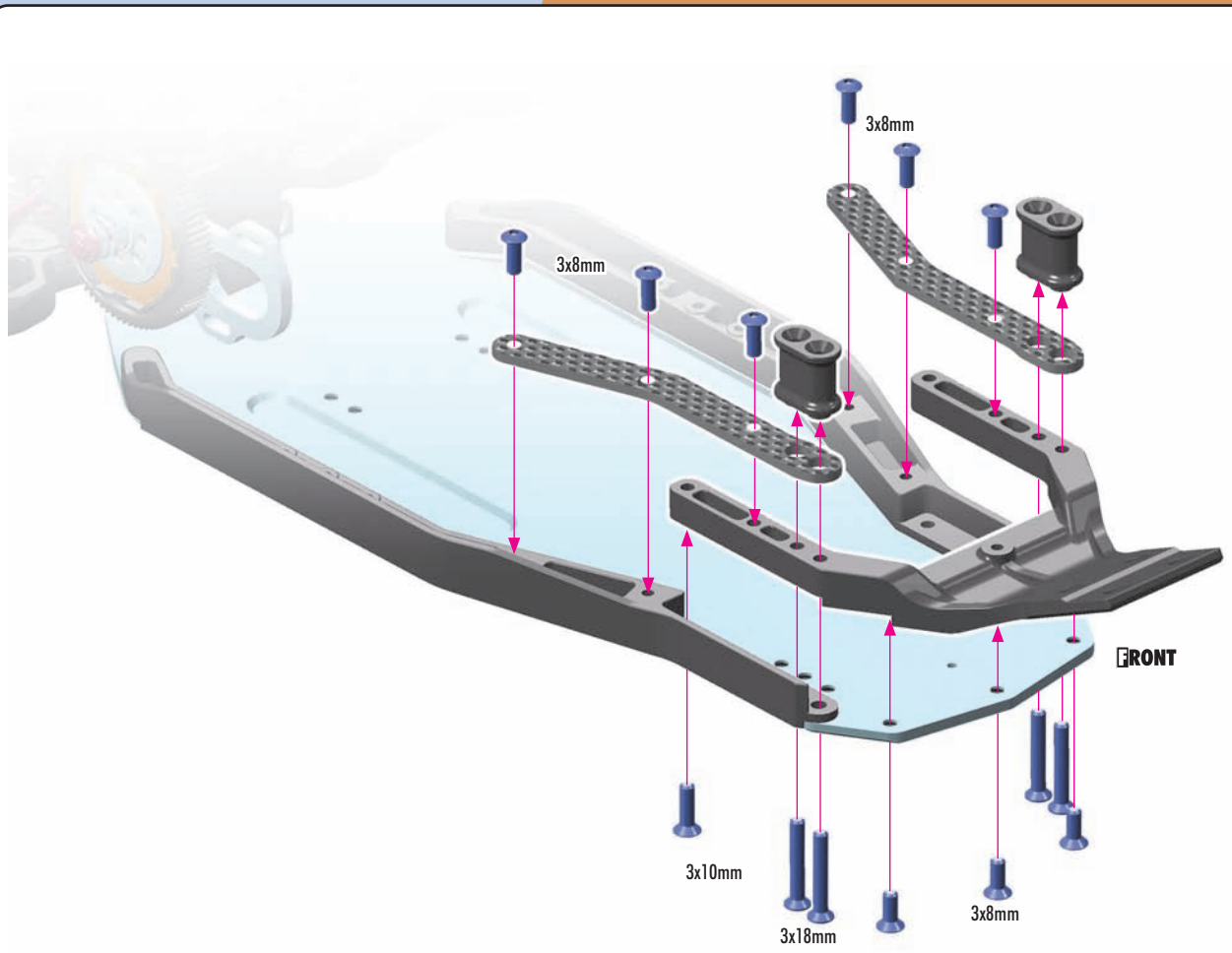
903308
SFH M3x8



903310
SFH M3x10

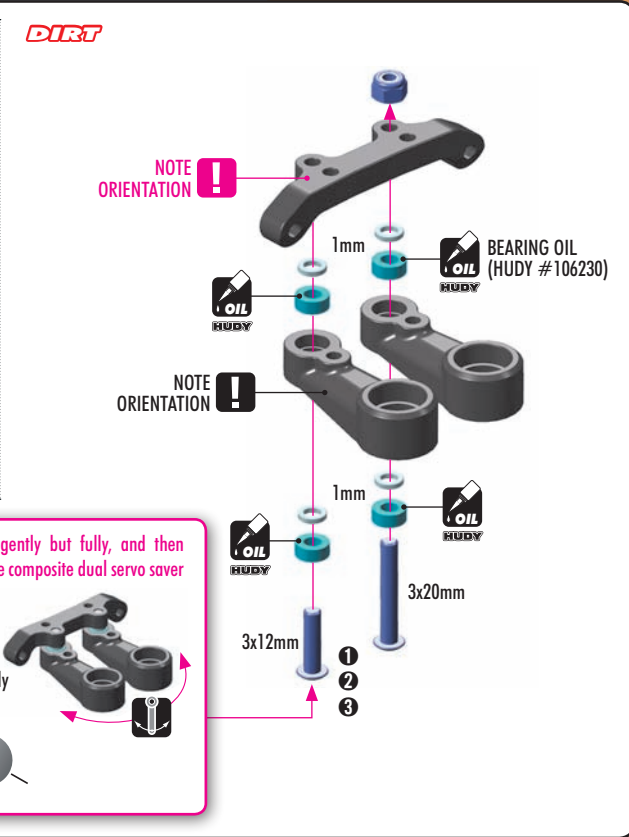
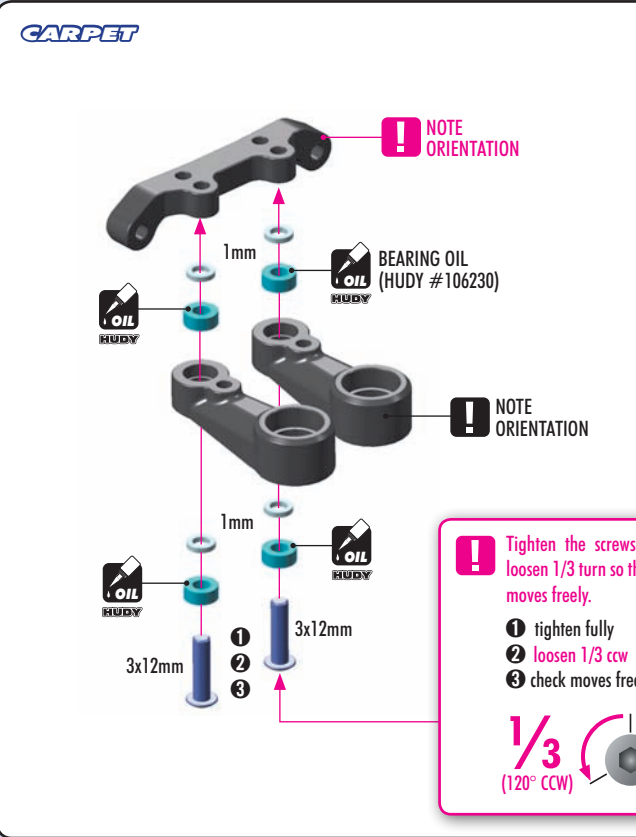
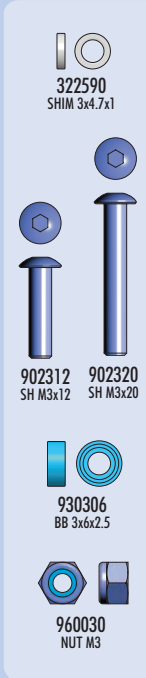


903318
SFH M3x18



4. FRONT ASSEMBLY

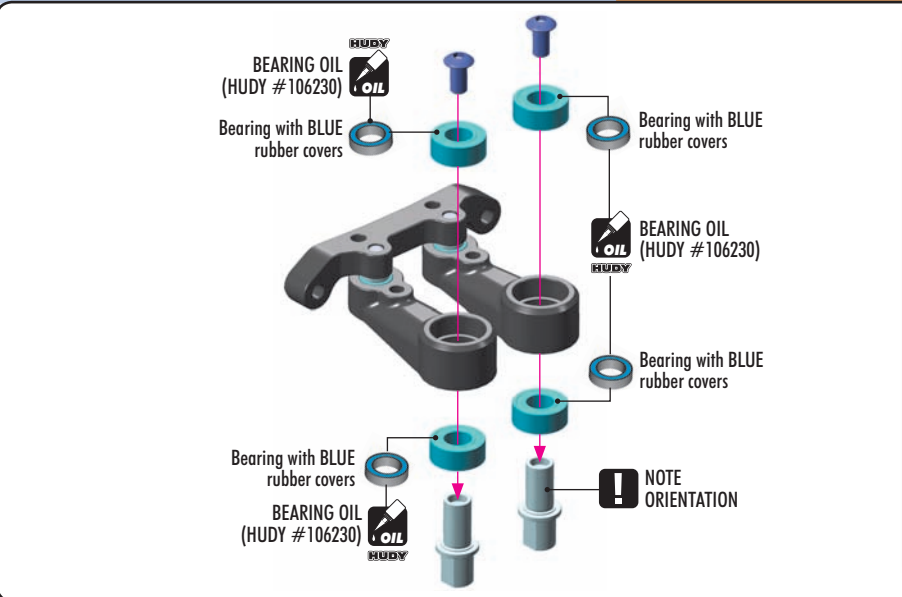
CARPET DIRT



! Tighten the screws gently but fully, and then loosen 1/3 turn so the composite servo saver moves freely.

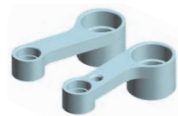
- 1 tighten fully
- 2 loosen 1/3 ccw
- 3 check moves freely

1/3
(120° CCW)



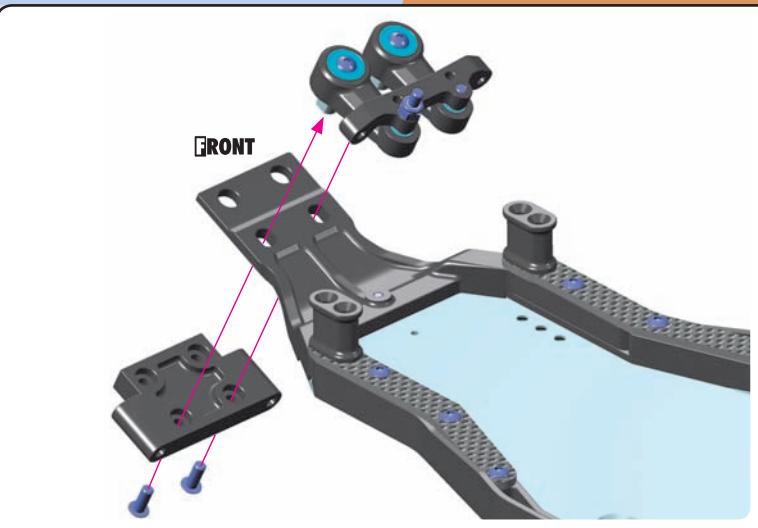
OPTION **STEERING ARMS**

#322514	HARD	INCLUDED
#322514-G	GRAPHITE	OPTION
#322512	ALU	OPTION



OPTION **STEERING PLATE**

#322573	HARD	INCLUDED
#322573-G	GRAPHITE	OPTION
#322572	ALU	OPTION



OPTION **FRONT LOWER ARM MOUNT**

#322310	ALU 26°	OPTION
#322311	COMPOSITE 26°	INCLUDED
#322312	BRASS 26°	OPTION
#322313	ALU 23°/29°	OPTION
#321211	SUSP. HOLDER BRACE 23°/29°	OPTION
#322314	BRASS 23°/29°	OPTION
#321211	SUSP. HOLDER BRACE 23°/29°	OPTION

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



XRAY BALL-BEARING			
#940510	5x10x4	OIL	OPTION
#359050	5x10x4	GREASE	INCLUDED



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



FRONT LSM SUSPENSION ARM			
#322113-H	RIGHT	HARD	INCLUDED
#322123-H	LEFT	HARD	INCLUDED
#322113-G	RIGHT	GRAPHITE	OPTION
#322123-G	LEFT	GRAPHITE	OPTION



FRONT ROLL CENTER HOLDER		
#322044-H	HARD	INCLUDED
#322043	ALU	OPTION



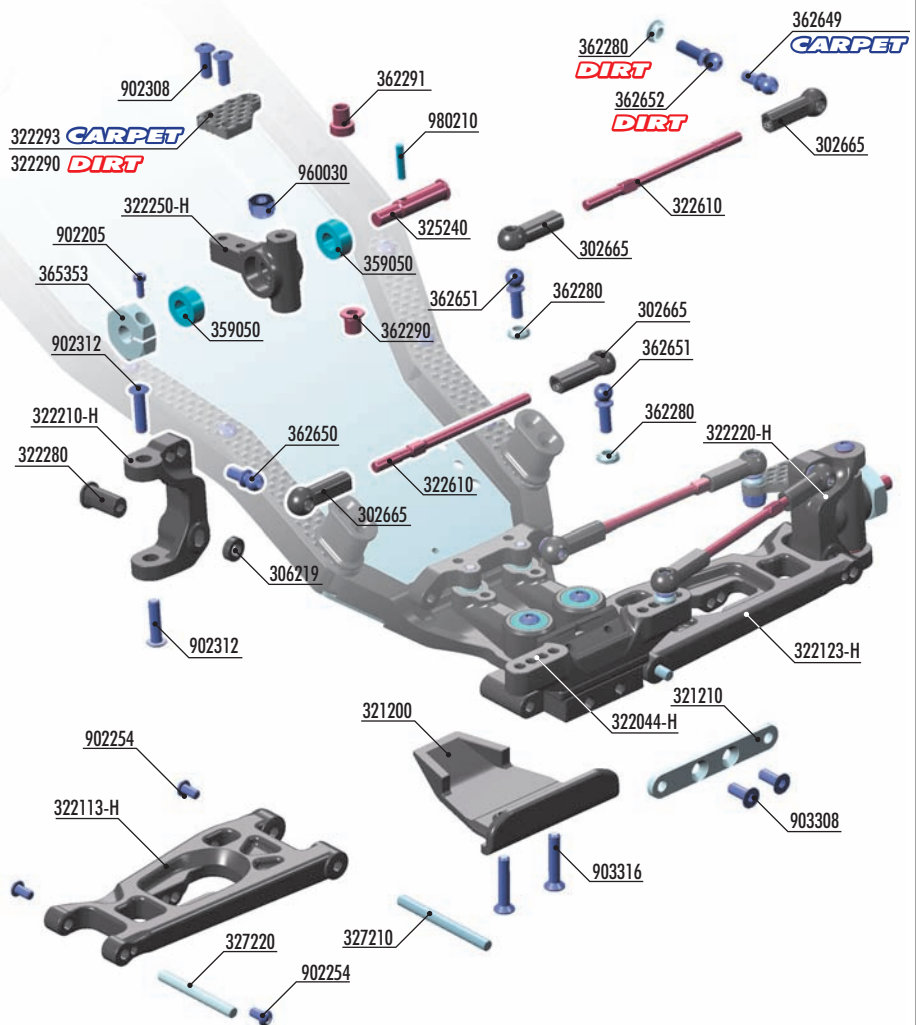
STEERING BLOCK EXTENSION		
#322290	2 SLOTS	INCLUDED
#322291	1 SLOT	OPTION
#322292	0 SLOTS	OPTION
#322293	3 SLOTS	INCLUDED



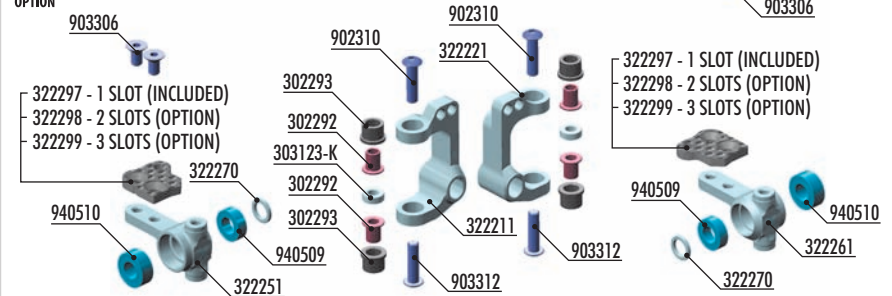
C-HUB			
#322210-M	RIGHT	MEDIUM	OPTION
#322210-H	RIGHT	HARD	INCLUDED
#322210-G	RIGHT	GRAPHITE	OPTION
#322220-M	LEFT	MEDIUM	OPTION
#322220-H	LEFT	HARD	INCLUDED
#322220-G	LEFT	GRAPHITE	OPTION



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	OPTION
#365355	+0.75mm	1 SLOT	OPTION
#365353	0mm	0 SLOTS	INCLUDED
#365354	-0.75mm	Lightw.	OPTION
#365361	-1.25mm	Lightw.	OPTION



#320903 XB2 ALU STEERING BLOCKS & C-HUBS - SET



BAG

05

- 302665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
- 306219 COMPOSITE SET OF SERVO SHIMS (4)
- 321200 COMPOSITE FRONT BUMPER
- 321210 ALU SUSPENSION HOLDER BRACE - SWISS 7075 T6 (3MM)
- 322044-H COMPOSITE FRONT ROLL-CENTER HOLDER - WIDE - HARD
- 322113-H SUSP. ARM FRONT - LOW SHOCK MOUNTING - LOWER RIGHT - HARD
- 322123-H SUSP. ARM FRONT - LOW SHOCK MOUNTING - LOWER LEFT - HARD
- 322210-H COMPOSITE C-HUB 0° DEG. RIGHT - HARD
- 322220-H COMPOSITE C-HUB 0° DEG. LEFT - HARD
- 322250-H COMPOSITE STEERING BLOCK - HARD
- 322280 COMPOSITE CASTER ECCENTRIC BUSHING (2+2+2)
- 322610 ADJUSTABLE TURNBUCKLE 55MM M3 L/R - HUDY SPRING STEEL™ (2)
- 325240 FRONT DRIVE AXLE - HUDY SPRING STEEL™
- 327210 FRONT SUSPENSION PIVOT PIN (2)
- 327220 FRONT ARM PIVOT PIN (2)
- 362280 ALU CONICAL SHIM 3x6x2.0MM (10)
- 362290 STEEL STEERING BUSHING - SHORT (2)
- 362291 STEEL STEERING BUSHING - LONG (2)
- 362650 BALL END 4.9MM WITH THREAD 6MM (2)
- 362651 BALL END 4.9MM WITH THREAD 8MM (2)

- 365353 ALU WHEEL HUB 12MM (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

- 322293 GRAPHITE EXTENSION FOR STEERING BLOCK (2) - 3 SLOTS
- 362649 BALL END 4.9MM WITH THREAD 5MM (2)

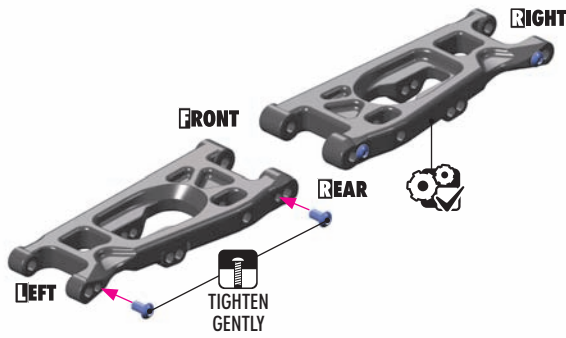
DIRT

- 322290 GRAPHITE EXTENSION FOR STEERING BLOCK - 2 SLOTS (2)
- 362280 ALU CONICAL SHIM 3x6x2.0MM (10)
- 362652 BALL END 4.9MM WITH THREAD 10MM (2)

5. FRONT SUSPENSION



902254
SH M2.5x4



FRONT LSM SUSPENSION ARM

#322113-H	RIGHT	HARD	INCLUDED
#322123-H	LEFT	HARD	INCLUDED
#322113-G	RIGHT	GRAPHITE	OPTION
#322123-G	LEFT	GRAPHITE	OPTION

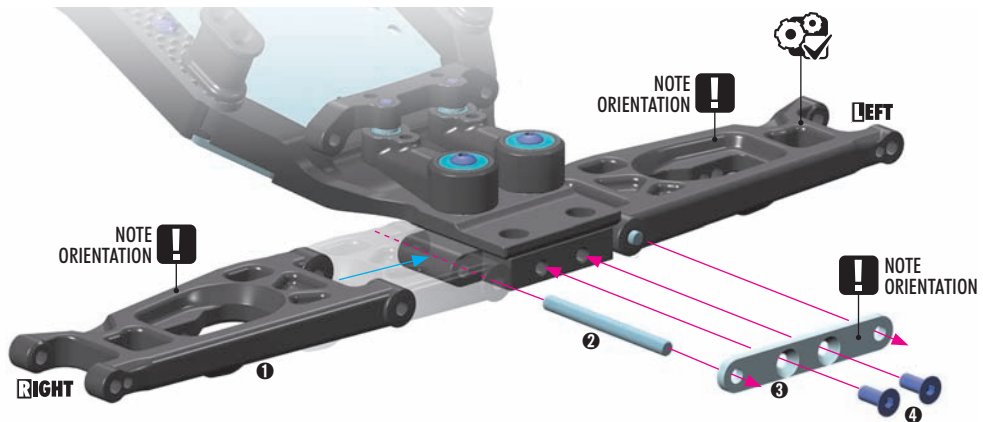


FRONT SUSPENSION ARM

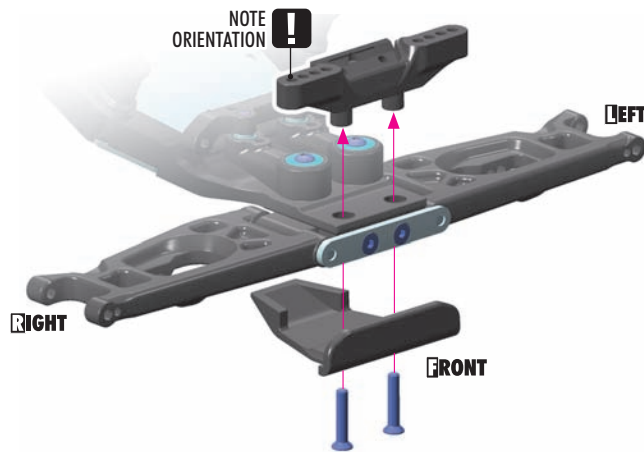
#322110-M	MEDIUM	OPTION
#322110-H	HARD	OPTION
#322110-G	GRAPHITE	OPTION



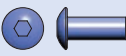
903308
SFH M3x8



903316
SFH M3x16



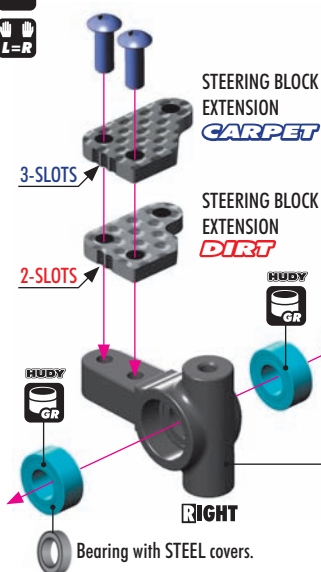
#322043
ALU FRONT ROLL-CENTER HOLDER FOR ANTI-ROLL BAR - WIDE



902308
SH M3x8



940510
BB 5x10x4



#320903
XB2 ALU STEERING BLOCKS & C-HUBS - SET



STEERING BLOCK EXTENSION

#322293	3 SLOTS	INCLUDED	CARPET
#322290	2 SLOTS	INCLUDED	DIRT
#322291	1 SLOT	OPTION	
#322292	0 SLOTS	OPTION	



3 SLOTS - Increased steering angle which increases steering in slow corners.
 2 SLOTS - Turns outside wheels less, easier to drive, less aggressive.
 1 SLOT - Between 2 and 0.
 0 SLOTS - Most aggressive steering, recommended for very technical small tracks.

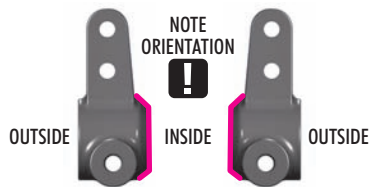


STEERING BLOCK

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



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

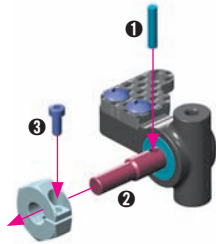


5. FRONT SUSPENSION

CARPET DIRT

- 902205 SH M2x5
- 981210 P 2x10

2x L=R



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

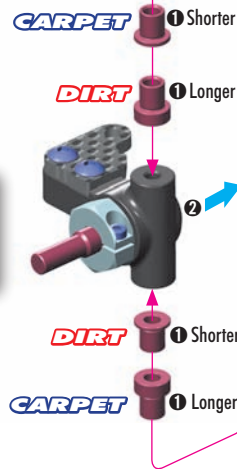
#365356	+1.5mm	2 SLOTS	OPTION
#365355	+0.75mm	1 SLOT	OPTION
#365353	0mm	0 SLOTS	INCLUDED
#365354	-0.75mm	Lightw.	OPTION
#365361	-1.25mm	Lightw.	OPTION



- 902312 SH M3x12

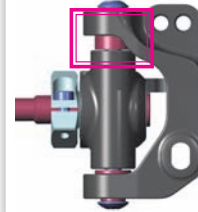
2x L=R

Steel steering bushings allow ROLL CENTER adjustment.



NOTE ORIENTATION

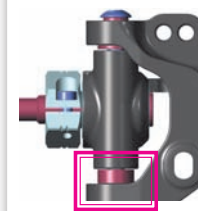
DIRT



LOWER ROLL CENTER

(INITIAL SETTING) **DIRT**
 TOP = LONGER bushing
 BOTTOM = SHORTER bushing
 Recommended for rough tracks to improve stability.

CARPET



HIGHER ROLL CENTER

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

OPTION

C-HUB - LEFT		
#322220-M	MEDIUM	OPTION
#322220-H	HARD	INCLUDED
#322220-G	GRAPHITE	OPTION

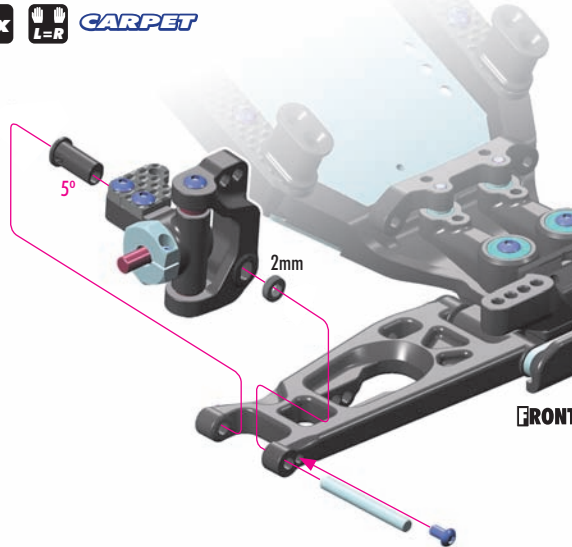
C-HUB - RIGHT		
#322210-M	MEDIUM	OPTION
#322210-H	HARD	INCLUDED
#322210-G	GRAPHITE	OPTION



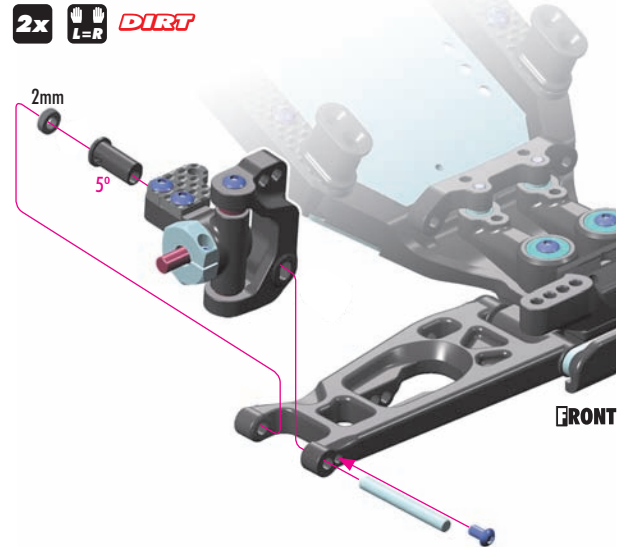
MEDIUM - For low traction. More steering on low grip.
 HARD - For medium traction. More steering, more free in corners.
 GRAPHITE - For high traction. More precise steering, less stopping in corners.

- 306219 SHIM 3x6x2
- 902254 SH M2.5x4

2x L=R CARPET

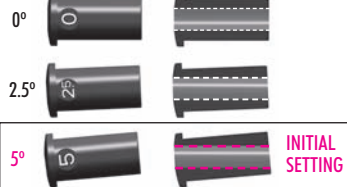


2x L=R DIRT

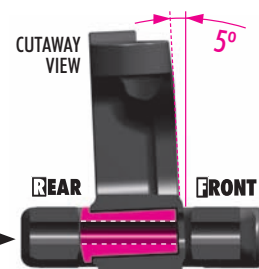


DETAIL

CASTER ECCENTRIC BUSHINGS



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



5. FRONT SUSPENSION **CARPET** **DIRT**

ROLL CENTER LINKS

2x **L=R**

NOTE ORIENTATION **!**

6mm THREAD

RIGHT THREAD

LEFT THREAD

8mm THREAD

35.7mm

2x **L=R**

TIP Install the pivot balls with Professional Multi Tool (HUDY #183011).

362280
CON. SHIM 3x6x2

ROLL CENTER LINKS

2x **L=R**

NOTE ORIENTATION **!**

8mm THREAD

CONICAL SHIM 2mm

6mm THREAD

RIGHT

NOTE ORIENTATION **!**

LEFT

INITIAL SETTING

ALU CONICAL SHIM

OPTION	ALU CONICAL SHIM	STATUS
#362280	SILVER	INCLUDED
#362280-K	BLACK	OPTION
#362280-O	ORANGE	OPTION

CARPET STEERING LINKS

2x **L=R**

NOTE ORIENTATION **!**

8mm THREAD

RIGHT THREAD

LEFT THREAD

5mm THREAD

40mm

DIRT STEERING LINKS

2x **L=R**

NOTE ORIENTATION **!**

8mm THREAD

RIGHT THREAD

LEFT THREAD

10mm THREAD

40.5mm

TIP Install the pivot balls with Professional Multi Tool (HUDY #183011).

362280
CON. SHIM 3x6x2

960030
NUT M3

CARPET STEERING LINKS

2x **L=R**

NOTE ORIENTATION **!**

8mm THREAD

2mm CONICAL SHIM

5mm THREAD

LEFT

DIRT STEERING LINKS

2x **L=R**

!

- Remove steering arms together with steering plate.
- Install steering links.
- Install and tighten the entire steering system back.

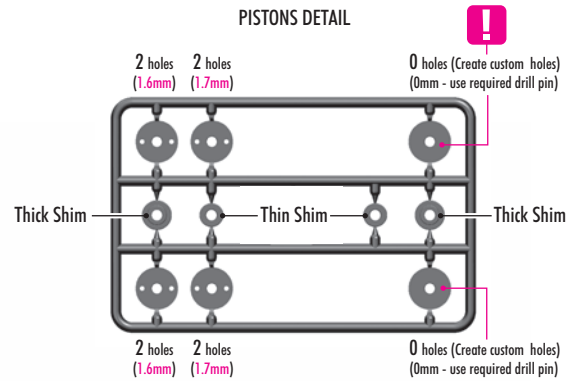
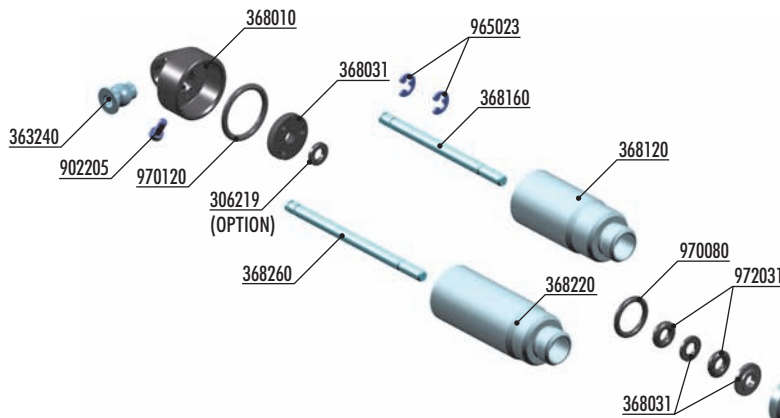
NOTE ORIENTATION **!**

8mm THREAD

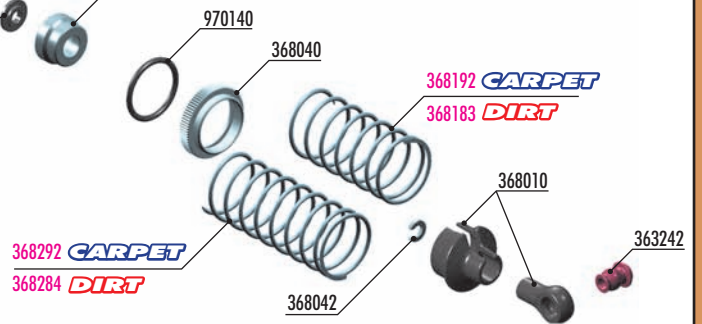
2mm CONICAL SHIM

10mm THREAD

LEFT



These pistons can NOT be used in shocks without making the custom holes by yourselves.



FRONT SPRINGS				
#368191	LINEAR	42mm	1 DOTS	OPTION
#368192	LINEAR	42mm	2 DOTS	INCLUDED
#368193	LINEAR	42mm	3 DOTS	OPTION
#368194	LINEAR	42mm	4 DOTS	OPTION
#368195	LINEAR	42mm	5 DOTS	OPTION



REAR SPRINGS				
#368292	LINEAR	57mm	2 DOTS	INCLUDED
#368293	LINEAR	57mm	3 DOTS	OPTION
#368294	LINEAR	57mm	4 DOTS	OPTION



FRONT SPRINGS				
#368175	PROGRESS.	40mm	3 DOTS	OPTION
#368182	LINEAR	45mm	1 STRIPE & 3 DOTS	OPTION
#368183	LINEAR	45mm	1 DOT	INCLUDED
#368184	LINEAR	45mm	2 DOTS	OPTION
#368185	LINEAR	45mm	3 DOTS	OPTION
#368186	LINEAR	45mm	4 DOTS	OPTION



REAR SPRINGS				
#368273	PROGRESS.	60mm	2 STRIPES	OPTION
#368275	PROGRESS.	55mm	2 DOTS	OPTION
#368283	LINEAR	63mm	1 STRIPE & 3 DOTS	OPTION
#368284	LINEAR	60mm	1 DOT	INCLUDED
#368285	LINEAR	60mm	2 DOTS	OPTION
#368286	LINEAR	60mm	3 DOTS	OPTION
#368287	LINEAR	60mm	4 DOTS	OPTION



#368032
BLANK SHOCK PISTONS (4)



#328011
COMPOSITE SHOCK BALL JOINT 21MM (2)



#972030
SILICONE O-RING 3x2mm (10)



#368051
ALU SHOCK CAP-NUT WITH VENT HOLE (2)



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



#368021
ALU SHOCK SPRING RETAINING COLLAR (4)



#368022
ALU SHOCK SPRING RETAINING COLLAR -2MM (4)



BAG

06

- 306219 COMPOSITE SET OF SERVO SHIMS (4) (OPTION)
- 363240 BALL UNIVERSAL 5.8MM WITH BACKSTOP (2)
- 363242 PIVOT BALL 5.8MM ECCENTRIC (2)
- 368010 COMPOSITE SHOCK PARTS
- 368031 SHOCK PISTONS - COMPLETE SET - DERLIN - V2
- 368040 ALU SHOCK ADJUSTABLE NUT (2)
- 368042 COMPOSITE SHOCK BUSHING & SHIM (2+2)
- 368100 FRONT SHOCK ABSORBERS COMPLETE SET - V3 (2)
- 368120 ALU FRONT SHOCK BODY - V3 (2)
- 368140 ALU LOWER SHOCK BODY CAP (2)
- 368160 FRONT HARDENED SHOCK SHAFT (2)
- 368200 REAR SHOCK ABSORBERS COMPLETE SET (2)
- 368220 ALU REAR SHOCK BODY (2)
- 368260 REAR HARDENED SHOCK SHAFT (2)

- 902205 HEX SCREW SH M2x5 (10)
- 965023 E-CLIP 2.3 (10)
- 970080 O-RING 8x1 (10)
- 970120 O-RING 12 x 1.0 (10)
- 970140 O-RING 14 x 1.5 (10)
- 972031 SILICONE O-RING 3x2.1 (10)

CARPET

- 368192 FRONT SPRING-SET LINEAR - 2 DOTS (2)
- 368292 REAR SPRING-SET LINEAR - 2 DOTS (2)

DIRT

- 368183 FRONT SPRING-SET LINEAR - 1 DOT (2)
- 368284 REAR SPRING-SET LINEAR - 1 DOT (2)

6. SHOCK ABSORBERS

CARPET DIRT

965023
C 2.3

970080
O 8x1

972031
O 3x2.1

2 holes (1.6mm) **2x** FRONT

FRONT - SHORT SHOCK ROD

INITIAL PISTON SETTING

INITIAL PISTON SETTING

OPTION #368032 BLANK SHOCK PISTONS (4)

2 holes (1.7mm) **2x** REAR

REAR - LONG SHOCK ROD

4x

THICK Shim

O-ring

THIN Shim

O-ring

OIL

OIL

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

SET-UP BOOK
SHOCK DAMPING
SHOCK PISTONS

OPTION #306219 DOWNSTOP SHIMS

THICKER shim used, GREATER downstop is achieved.

1mm 2mm 3mm

! IMPORTANT
Always use same shim thickness on right and left side to achieve same downstop.

INITIAL SETTING (0mm) **2x** FRONT SHOCKS

SHORT SHOCK ROD

SHORT SHOCK BODY

INITIAL SETTING (0mm) **2x** REAR SHOCKS

LONG SHOCK ROD

LONG SHOCK BODY

! EXTREMELY IMPORTANT

INCORRECT

CORRECT

Do not push the shock rod straight through the lower shock body assembly; O-ring damage may result.

Twist the shock rod through the lower shock body assembly.

970140
O 14x1.5

4x

OIL

DETAIL

4x

970120
O 12x1

UPSTOP "C" SHIMS

CARPET		DIRT	
FRONT	REAR	FRONT	REAR
1+1mm	2+2mm	1+1mm	2mm

UPSTOP SHIM

24mm FRONT

29mm REAR

OPTION #328011 COMPOSITE SHOCK BALL JOINT 21MM (2)

Install the pivot balls with Professional Multi Tool (HUDY #183011).



CARPET
 FRONT (SHORT)
 Oil 500cSt
 REAR (LONG)
 Oil 450cSt

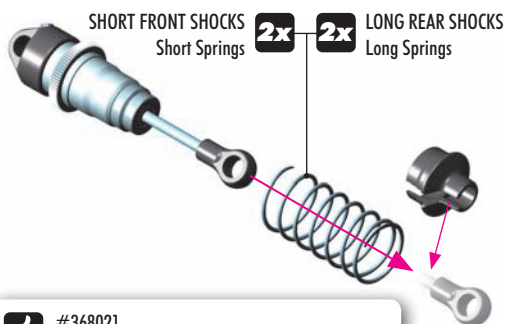
DIRT
 FRONT (SHORT)
 Oil 500cSt
 REAR (LONG)
 Oil 500cSt

DEFAULT SHOCK REBOUND SETTING 0% REBOUND

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

- Extend the shock shaft completely. Fill the shock body with the shock oil. For the FRONT shocks (short) use 500cSt oil. For the REAR shocks (long) use 450cSt or 500cSt oil.
- Move the shock shaft up and down a few times to release the air bubbles trapped beneath the piston.
3~5x UP & DOWN
- Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.
- TIGHTEN FULLY
Gently place the shock cap onto the filled shock body and start to tighten the cup. Tighten the cap fully.
- Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.
- Keep the shock shaft pushed in the shock body and insert the screw into the shock cap. Tighten gently.
- 6x push the shaft up and down.
- Untighten the screw.
- Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.
- Tighten the screw. The rebound will be at approx. 0%

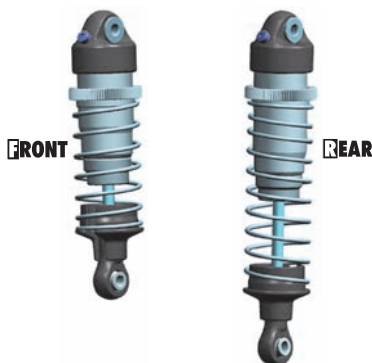
SET-UP BOOK
 SHOCK OIL



- #368021**
 ALU SHOCK SPRING RETAINING COLLAR (4)
 OPTION
 - #368022**
 ALU SHOCK SPRING RETAINING COLLAR -2MM (4)
 OPTION
-

! IMPORTANT

Both FRONT SHOCKS must be the same overall length.
 Both REAR SHOCKS must be the same overall length.

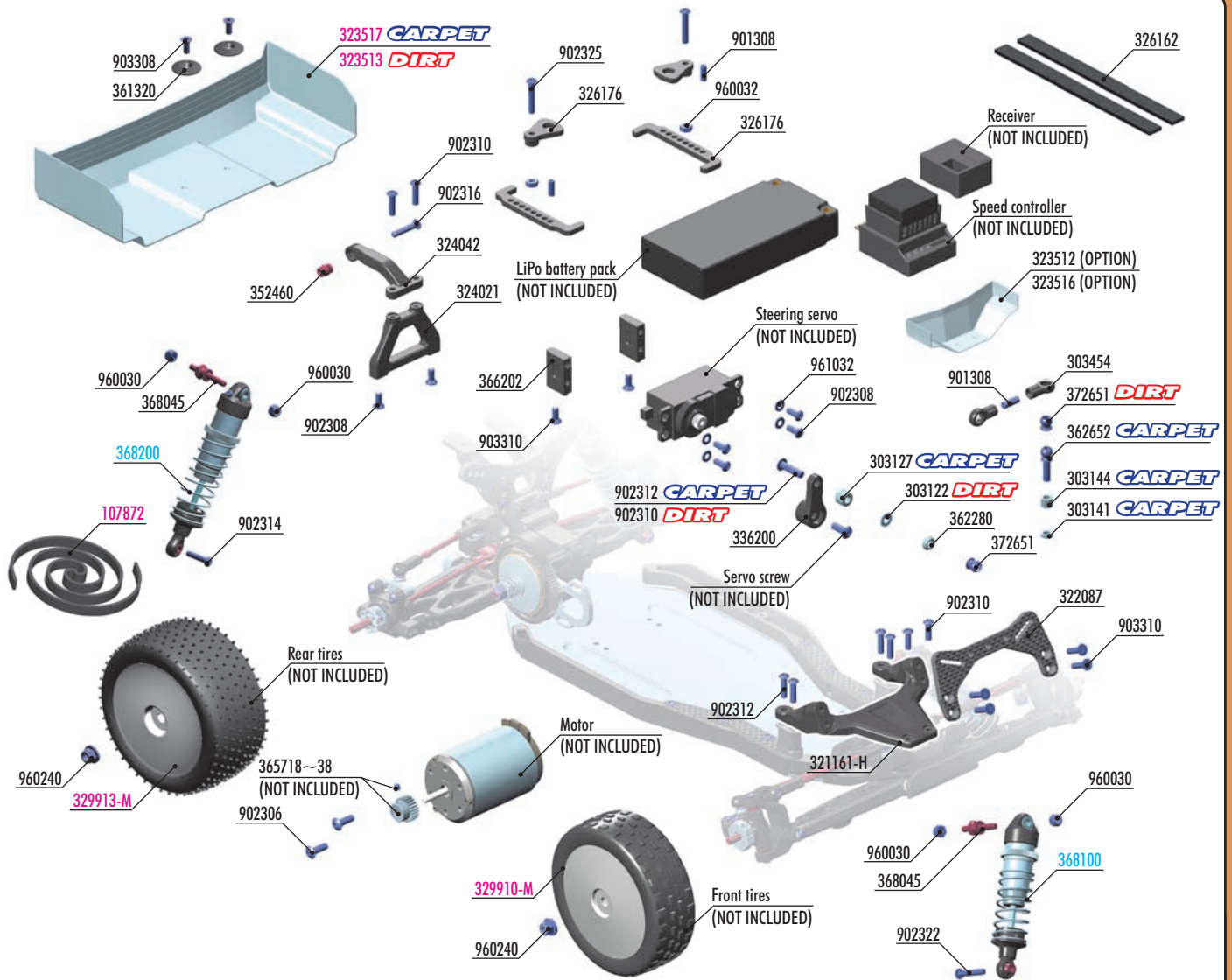


- 2x** FRONT SHOCKS (SHORT)
- 2x** REAR SHOCKS (LONG)



7. FINAL ASSEMBLY

CARPET DIRT



OPTION	XRAY LEXAN BODY			
#329701	0.50mm		OPTION	
#329709	0.50mm	ALPHA 2	OPTION	
#329710	0.75mm	GAMMA 2D	INCLUDED	DIRT
#329711	0.50mm	GAMMA 2DL	OPTION	CARPET
#329712	0.75mm	GAMMA 2C	INCLUDED	
#329713	0.50mm	GAMMA 2CL	OPTION	

OPTION	#322400	FRONT ANTI-ROLL BAR 1.0MM SET	OPTION	ANTI-ROLL BARS	
				#322458	0.8mm
				#322460	1.0mm
				#322461	1.1mm
				#322462	1.2mm

! Front anti-roll bar can be used only with #322043

BAG 07

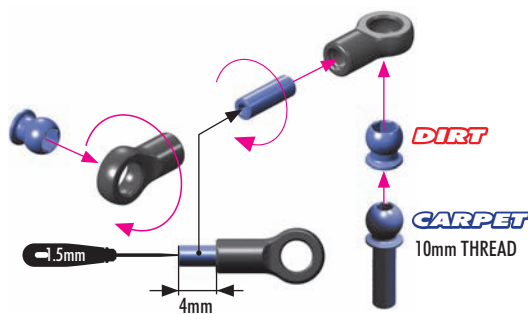
- 303454 BALL JOINT 4.9MM - OPEN (4)
- 321161-H COMPOSITE FRONT UPPER DECK FOR ANTI-ROLL BAR - HARD
- 322087 GRAPHITE SHOCK TOWER - FRONT - 3.5MM
- 324021 COMPOSITE MOUNT FOR UPPER BRACE - LCG
- 324042 COMPOSITE MOTOR UPPER BRACE - LCG
- 326162 SELF-ADHESIVE RUBBER 1.5x6.5x155MM (2)
- 326176 COMPOSITE LIPO BATTERY HOLDER FOR BENT SIDES CHASSIS (2+2)
- 336200 COMPOSITE STEERING SERVO ARMS - SET
- 352460 PIVOT BALL 5.8 (10)
- 361320 BODY MOUNT, BATTERY MOUNT - V2 & WING SHIM (2)
- 362280 ALU CONICAL SHIM 3x6x2.0MM (10)
- 365718~38 ALU PINION GEAR HARD COATED 18~38T/48 (OPTION)
- 366202 COMPOSITE SERVO MOUNT - HIGHER
- 368045 STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)
- 372651 PIVOT BALL UNIVERSAL 4.9 MM - HUDY SPRING STEEL™ (2)
- 901308 HEX SCREW SB M3x8 (10)
- 902306 HEX SCREW SH M3x6 (10)
- 902308 HEX SCREW SH M3x8 (10)
- 902310 HEX SCREW SH M3x10 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 902314 HEX SCREW SH M3x14 (10)
- 902316 HEX SCREW SH M3x16 (10)
- 902322 HEX SCREW SH M3x22 (10)
- 902325 HEX SCREW SH M3x25 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 903310 HEX SCREW SFH M3x10 (10)
- 960030 NUT M3 (10)
- 960032 NUT M3 (10)
- 960240 NUT M4 WITH SERRATED FLANGE (10)
- 961032 WASHER S 3.2 (10)
- 368100 FRONT SHOCK ABSORBERS COMPLETE SET (2)
- 368200 REAR SHOCK ABSORBERS COMPLETE SET (2)
- 107872 VELCRO TAPE WITH DOUBLE SIDED TAPE 8x500MM
- 329910-M FRONT WHEEL AERODISK WITH 12MM HEX IFMAR - WHITE (2)
- 329913-M REAR WHEEL AERODISK WITH 12MM HEX IFMAR - WHITE (2)

CARPET

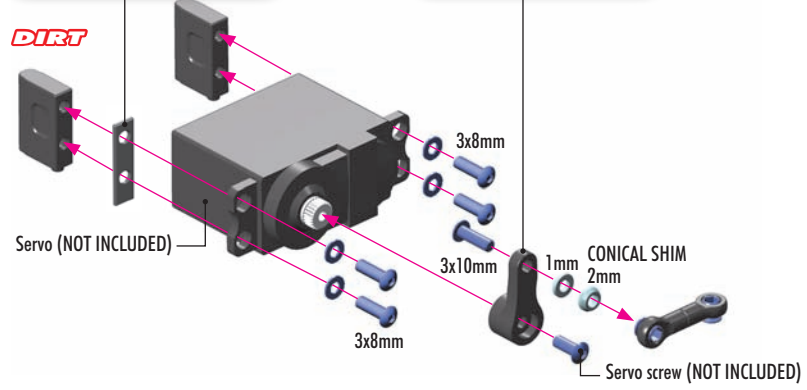
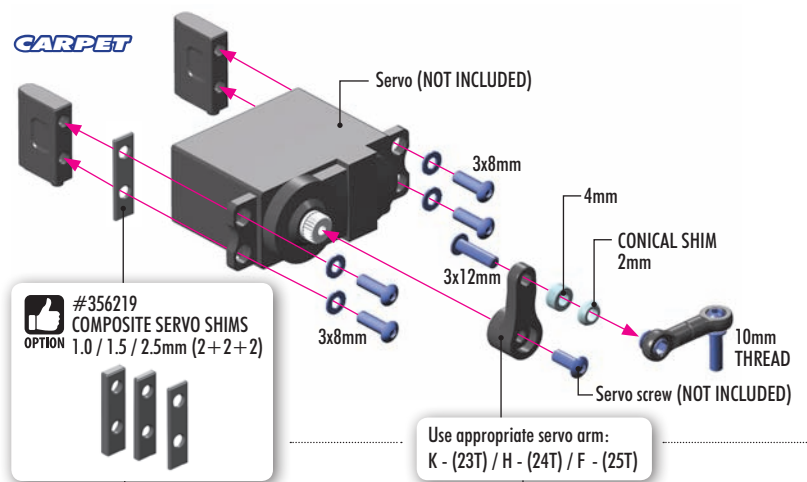
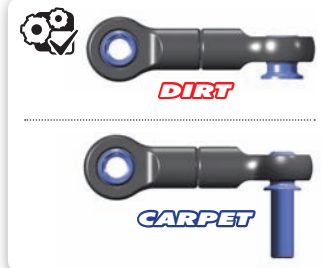
- 303127 ALU SHIM 3x6x4.0MM (10)
- 303141 ALU SHIM 3x5x1.0MM (10)
- 303144 ALU SHIM 3x5x4.0MM (10)
- 362652 BALL END 4.9MM WITH THREAD 10MM (2)
- 902312 HEX SCREW SH M3x12 (10)
- 323517 LEXAN REAR WING - TEC
- 329712 BODY FOR 1/10 2WD OFF-ROAD BUGGY - GAMMA 2C

DIRT

- 303122 ALU SHIM 3x6x1.0MM (10)
- 372651 PIVOT BALL UNIVERSAL 4.9 MM - HUDY SPRING STEEL™ (2)
- 902310 HEX SCREW SH M3x10 (10)
- 323513 LEXAN REAR WING - RANK (2)
- 329710 BODY FOR 1/10 2WD OFF-ROAD BUGGY - GAMMA 2D



TIP Install the pivot balls with Professional Multi Tool (HUDY #183011).



ALU SERVO HORNS - OFFSET

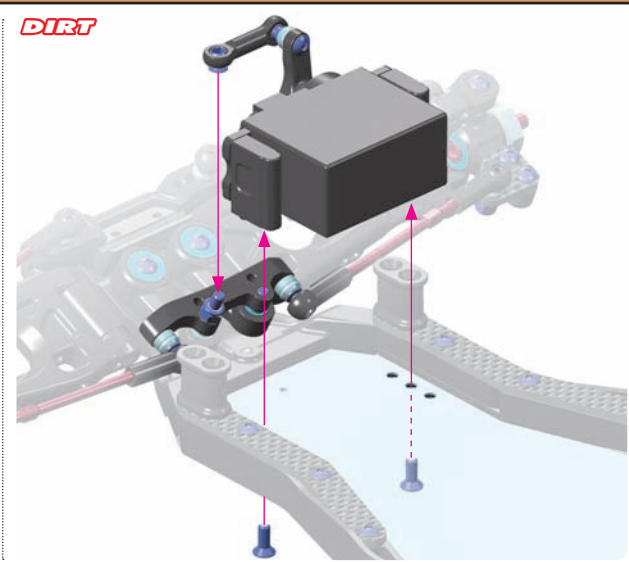
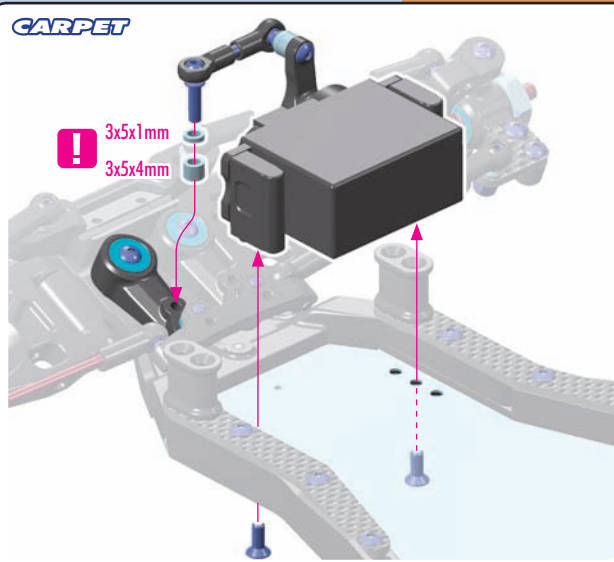
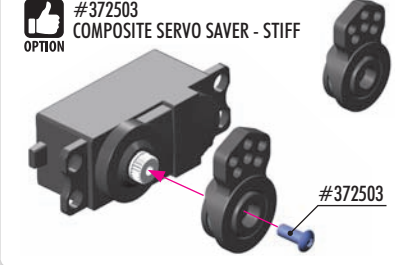
OPTION #293491	KO, Sanwa - 23T
#293492	Hitec - 24T
#293493	Futaba - 25T

CLAMP ALU SERVO HORNS - OFFSET

#293401	KO, Sanwa - 23T
#293402	Hitec - 24T
#293403	Futaba - 25T

For more in-corner steering and better steering response, aluminum servo horns may be used.

TIP For increased safety of the servo during a crash we suggest to use optional servo saver that will absorb impacts and will eliminate servo damage. To install the servo saver the optional alu stands.

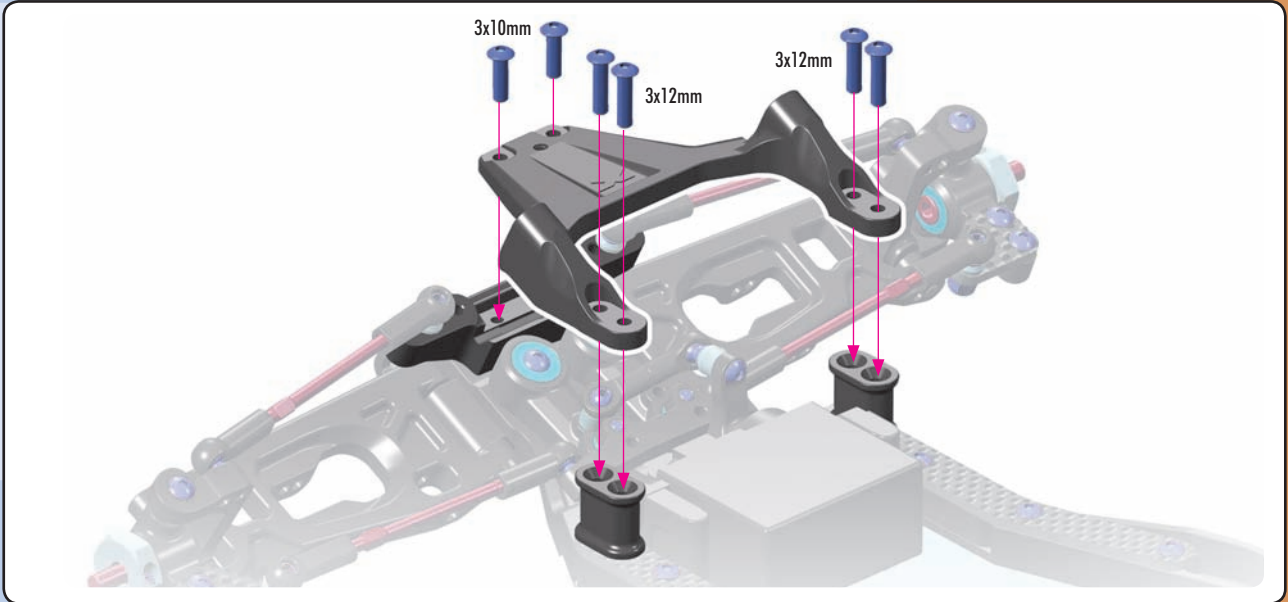




902310
SH M3x10



902312
SH M3x12



#322043
ALU FRONT ROLL-CENTER HOLDER
FOR ANTI-ROLL BAR - WIDE

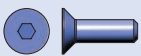
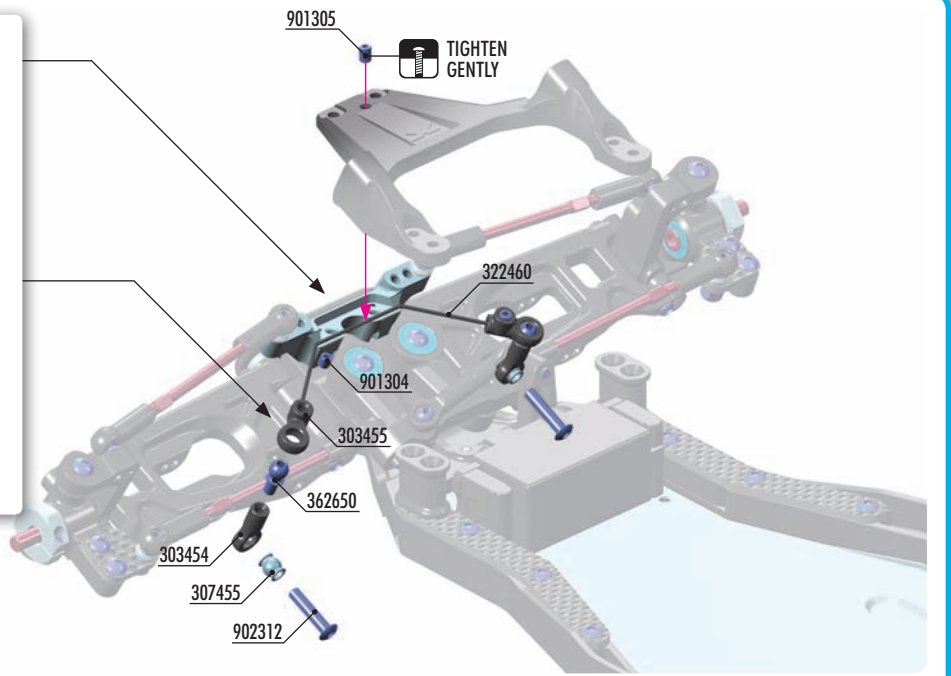


#322400
FRONT ANTI-ROLL BAR 1.0MM SET

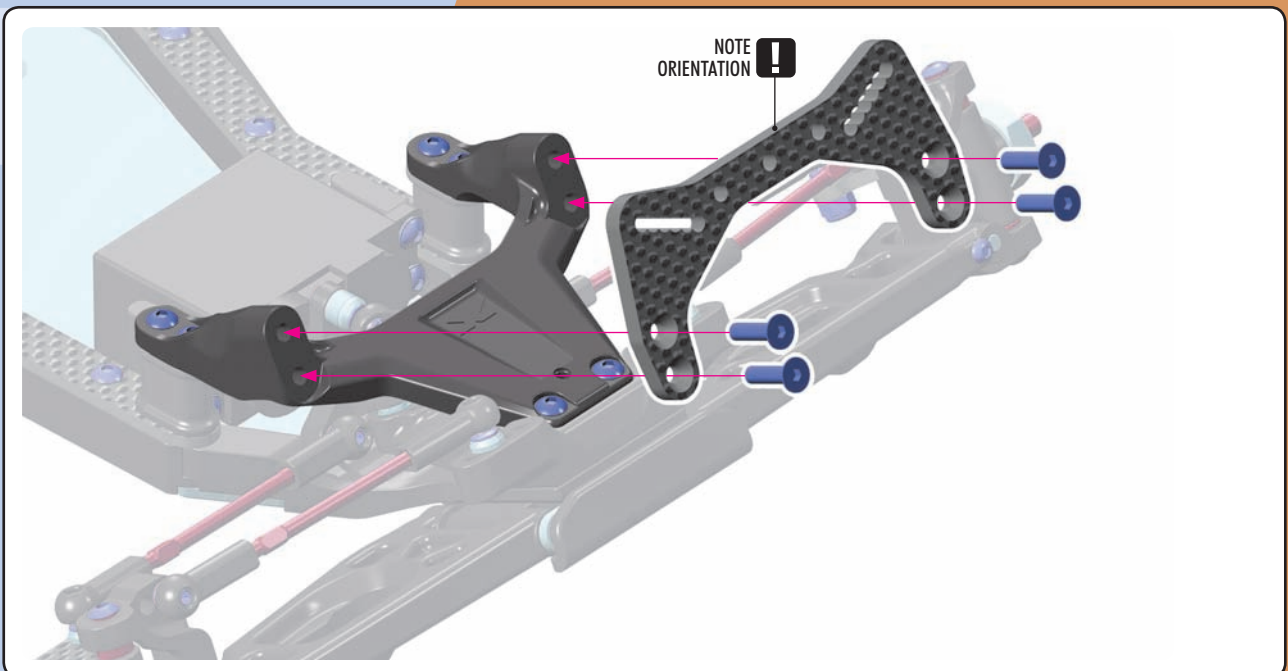


ANTI-ROLL BARS

#322458	0.8mm
#322460	1.0mm
#322461	1.1mm
#322462	1.2mm



903310
SFH M3x10





902322
SH M3x22

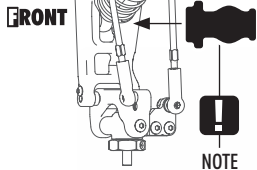


960030
NUT M3

2x L=R

ECCENTRIC SHOCK BALL

FRONT



NOTE ORIENTATION



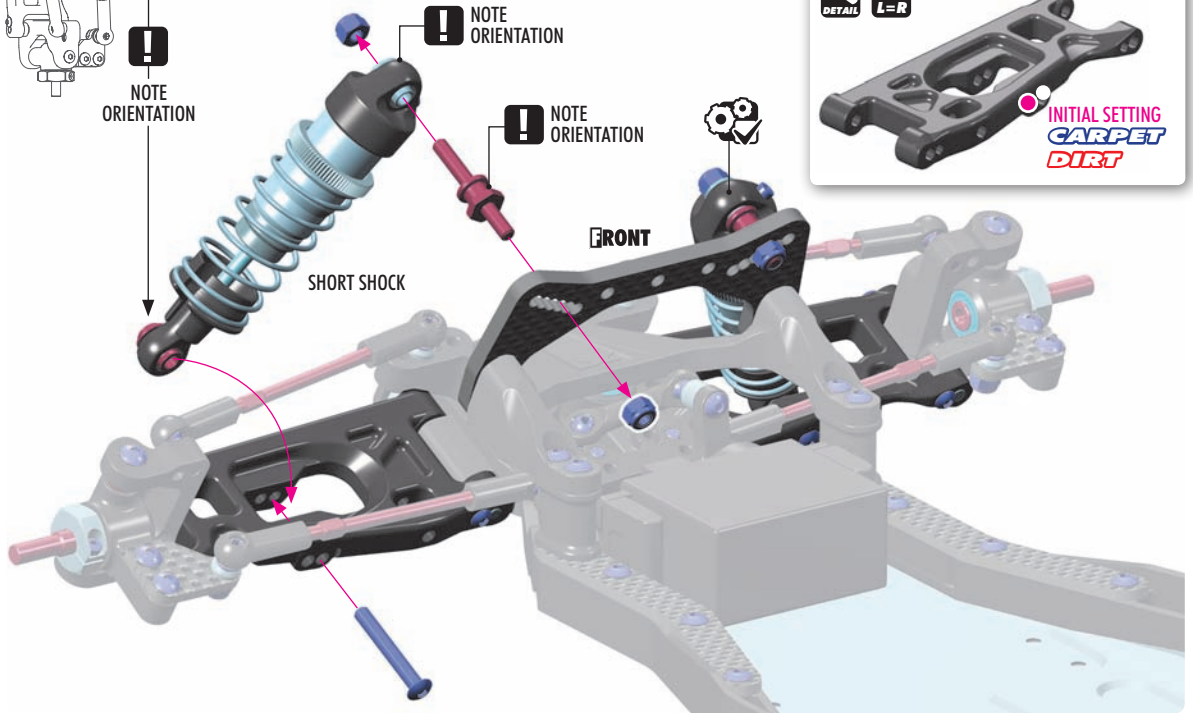
OPTION

ALU NUTS M3

#296530-B	BLUE	OPTION
#296530-K	BLACK	OPTION
#296530-O	ORANGE	OPTION
#960031	SILVER	OPTION



DETAIL L=R



NOTE ORIENTATION

NOTE ORIENTATION

FRONT

SHORT SHOCK



902314
SH M3x14



960030
NUT M3

2x L=R

REAR

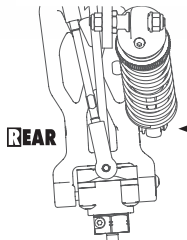
NOTE ORIENTATION

NOTE ORIENTATION

LONG SHOCK

ECCENTRIC SHOCK BALL

REAR



NOTE ORIENTATION

CARPET

DIRT

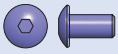


OPTION

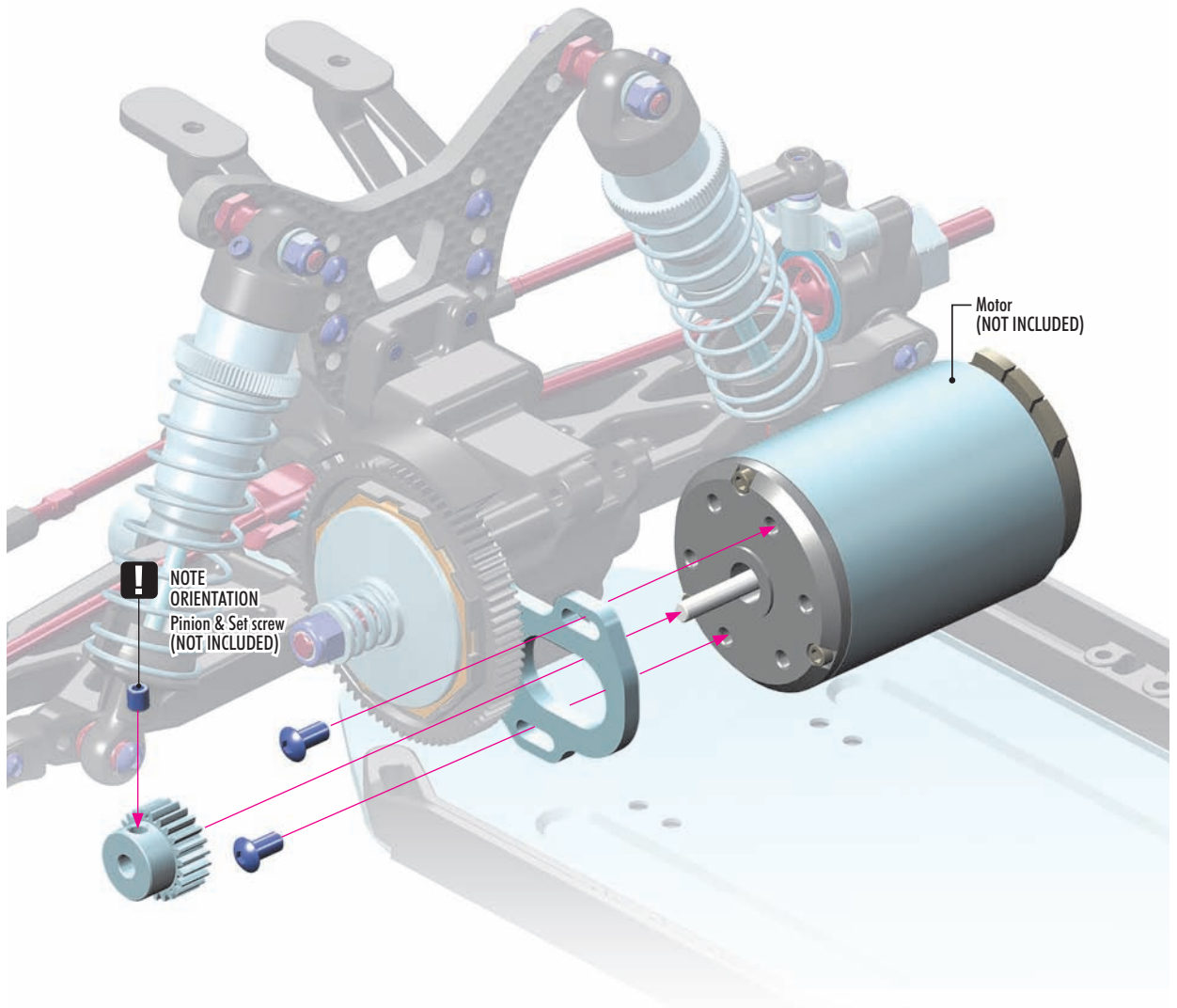
ALU NUTS M3

#296530-B	BLUE	OPTION
#296530-K	BLACK	OPTION
#296530-O	ORANGE	OPTION
#960031	SILVER	OPTION





902306
SH M3x6



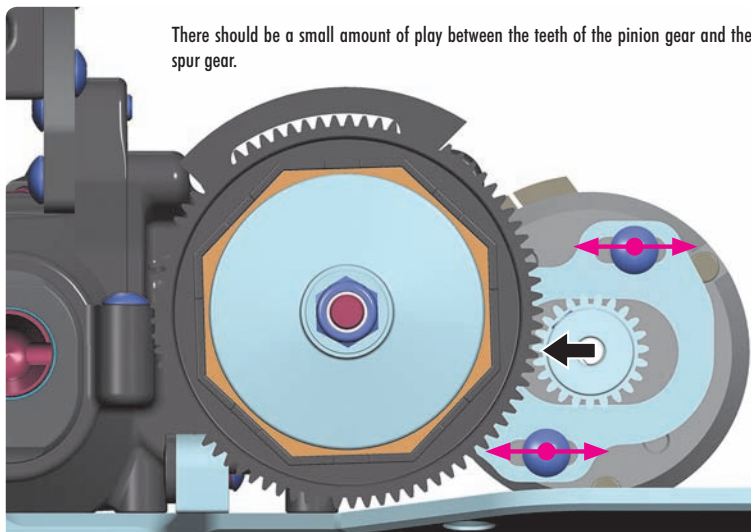
NOTE
ORIENTATION
Pinion & Set screw
(NOT INCLUDED)

Motor
(NOT INCLUDED)



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.

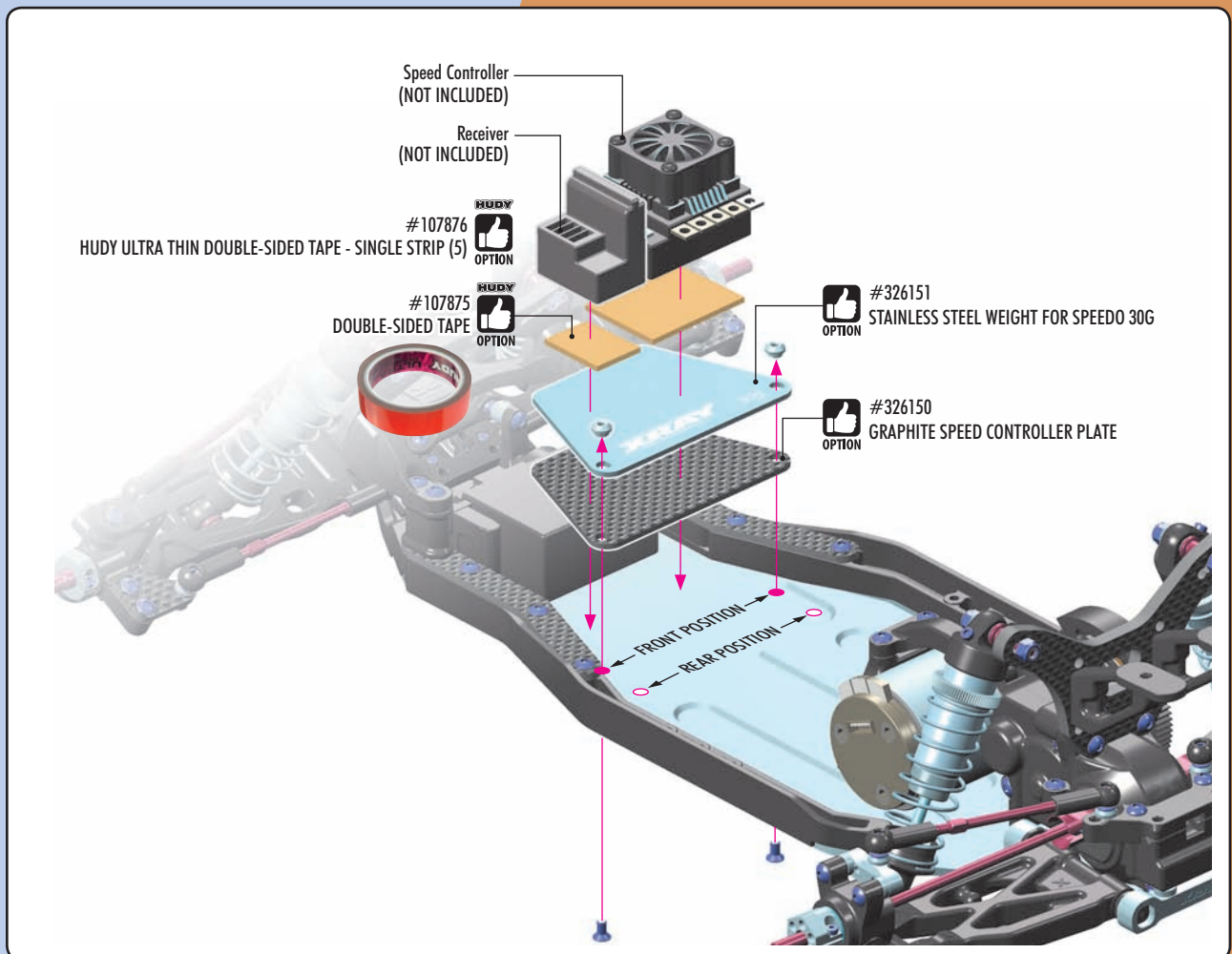
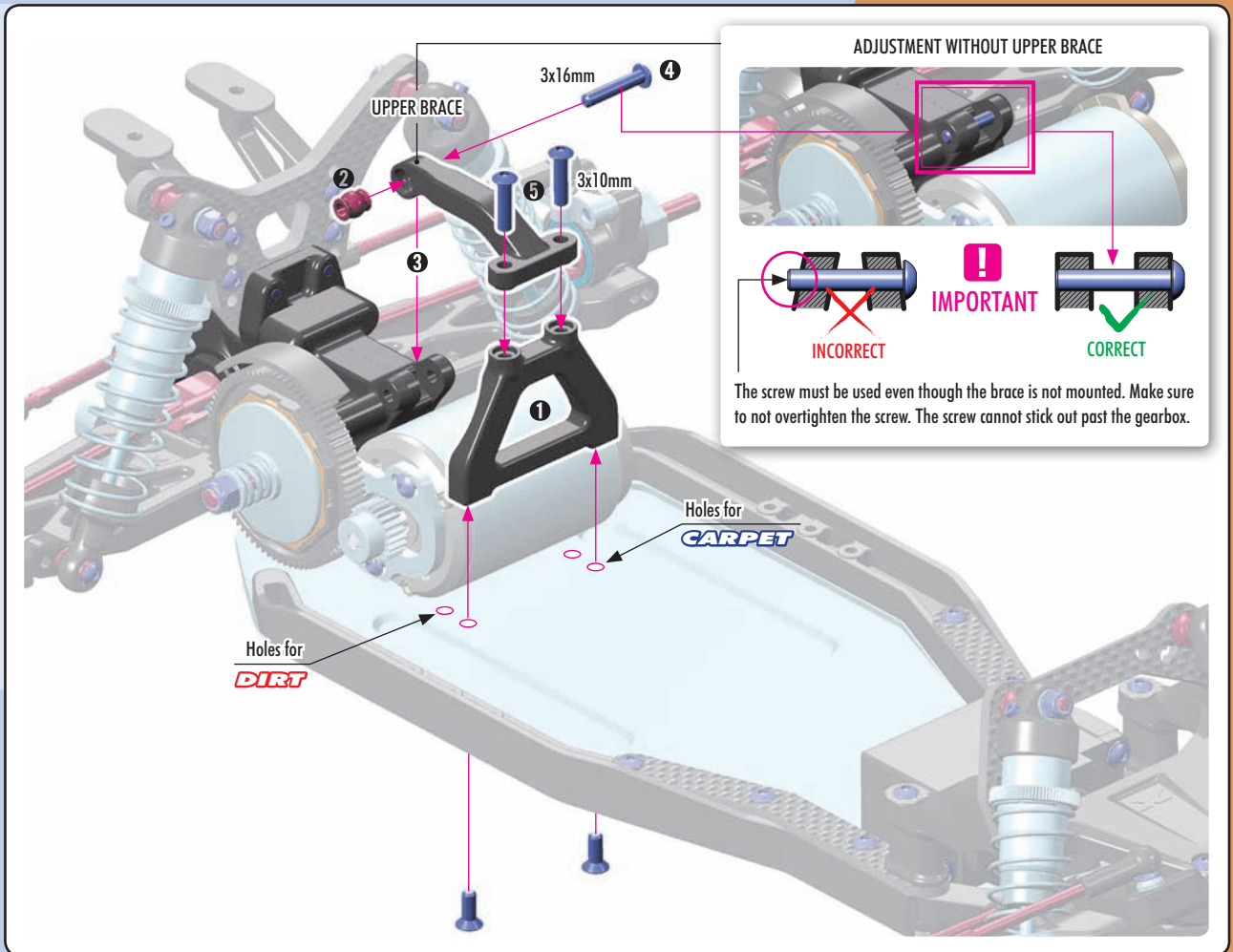


PINIONS (48P)

#365718	18T
#305919	19T
#294020	20T
#294021	21T
#294022	22T
#294023	23T
#305924	24T
#365725	25T
#365726	26T
#365727	27T
#365728	28T
#365729	29T
#365730	30T
#365731	31T
#365732	32T
#365733	33T
#365734	34T
#365735	35T
#365736	36T
#365737	37T
#365738	38T



-  902310
SH M3x10
-  902316
SH M3x16
-  903308
SFH M3x8





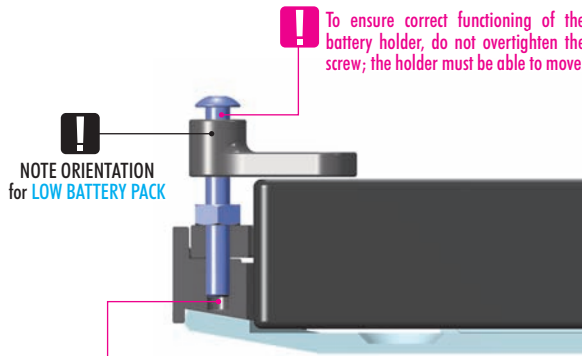
901308
SB M3x8



902325
SH M3x25

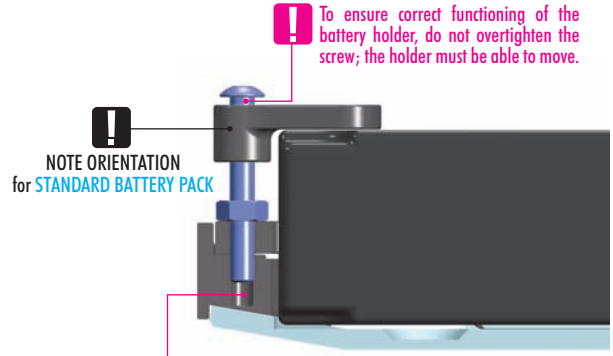


960032
NUT M3



NOTE ORIENTATION
for **LOW BATTERY PACK**

Do not overtighten the screw to avoid side guard damage.

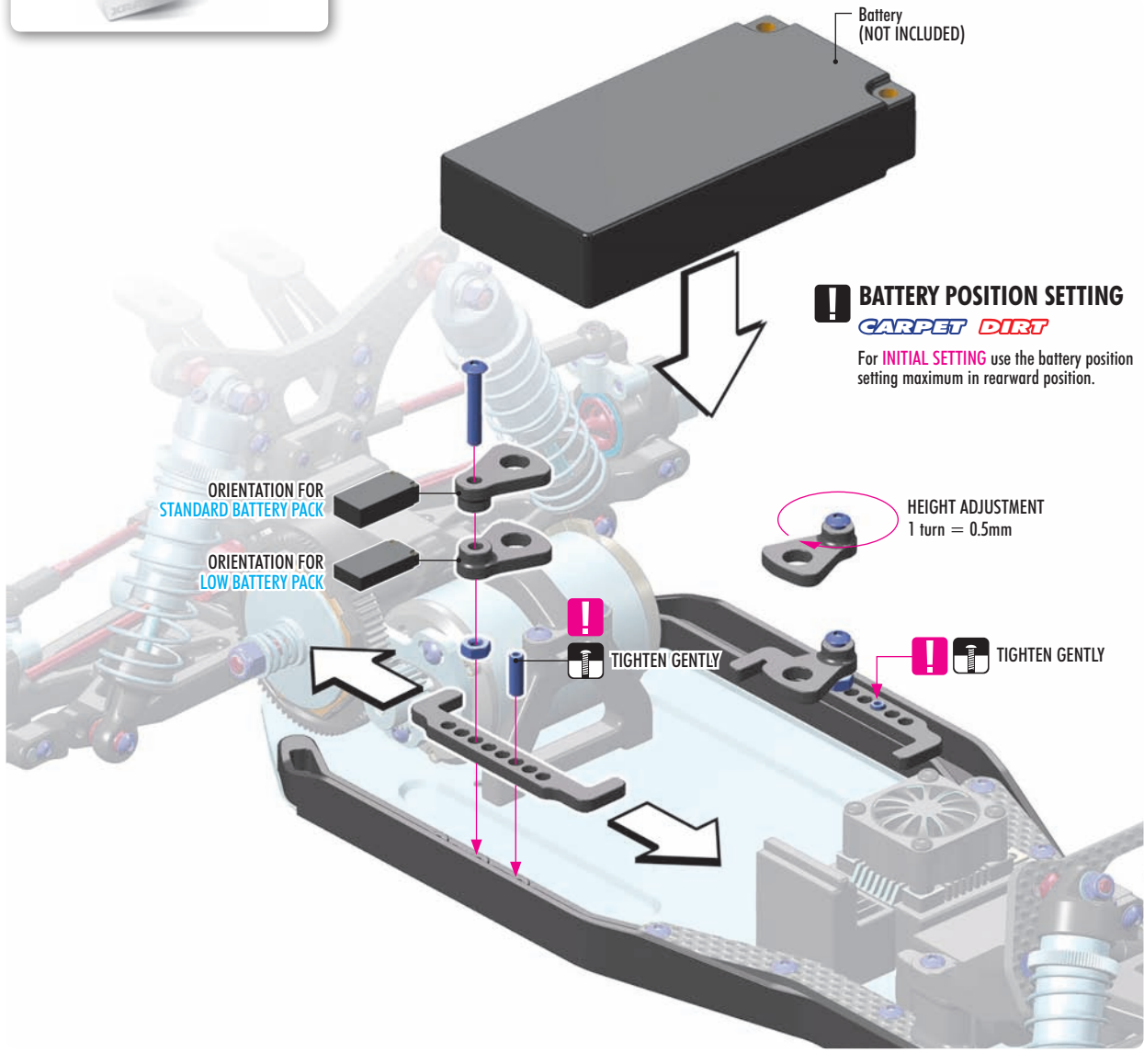


NOTE ORIENTATION
for **STANDARD BATTERY PACK**

Do not overtighten the screw to avoid side guard damage.



#326181
OPTION STAINLESS STEEL BATTERY WEIGHT 35g



Battery
(NOT INCLUDED)

BATTERY POSITION SETTING
CARPET DIRT

For **INITIAL SETTING** use the battery position setting maximum in rearward position.

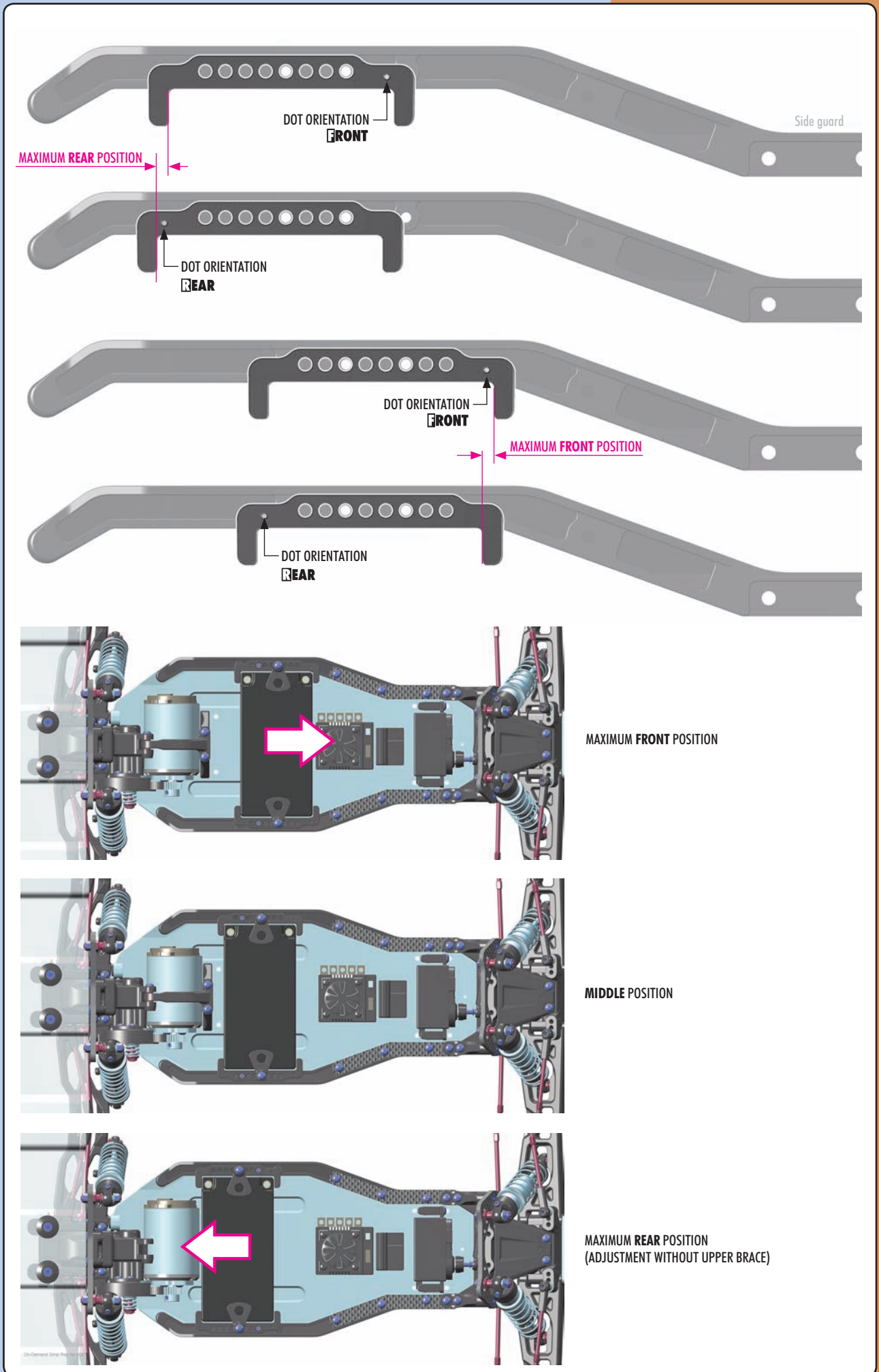
ORIENTATION FOR
STANDARD BATTERY PACK

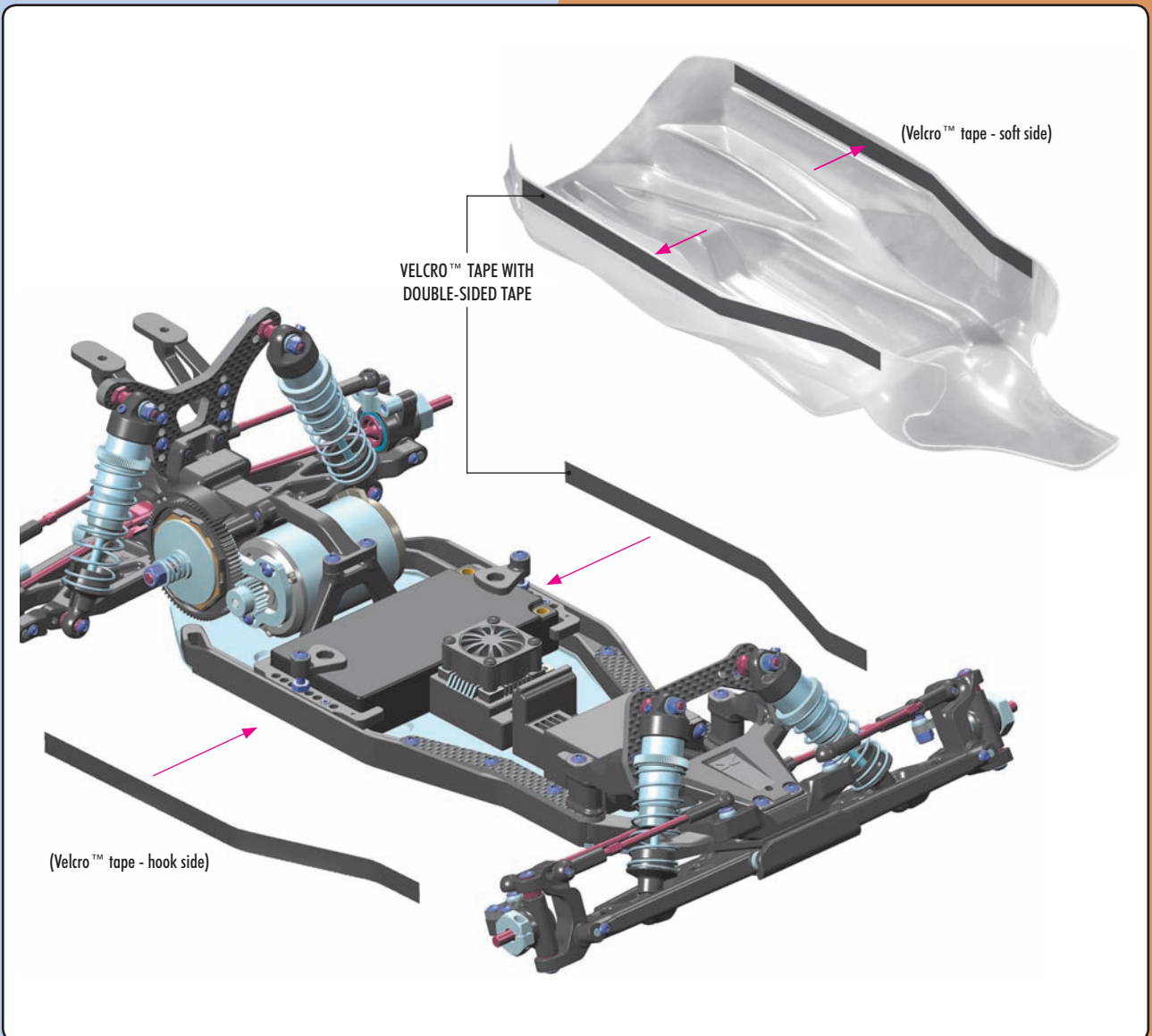
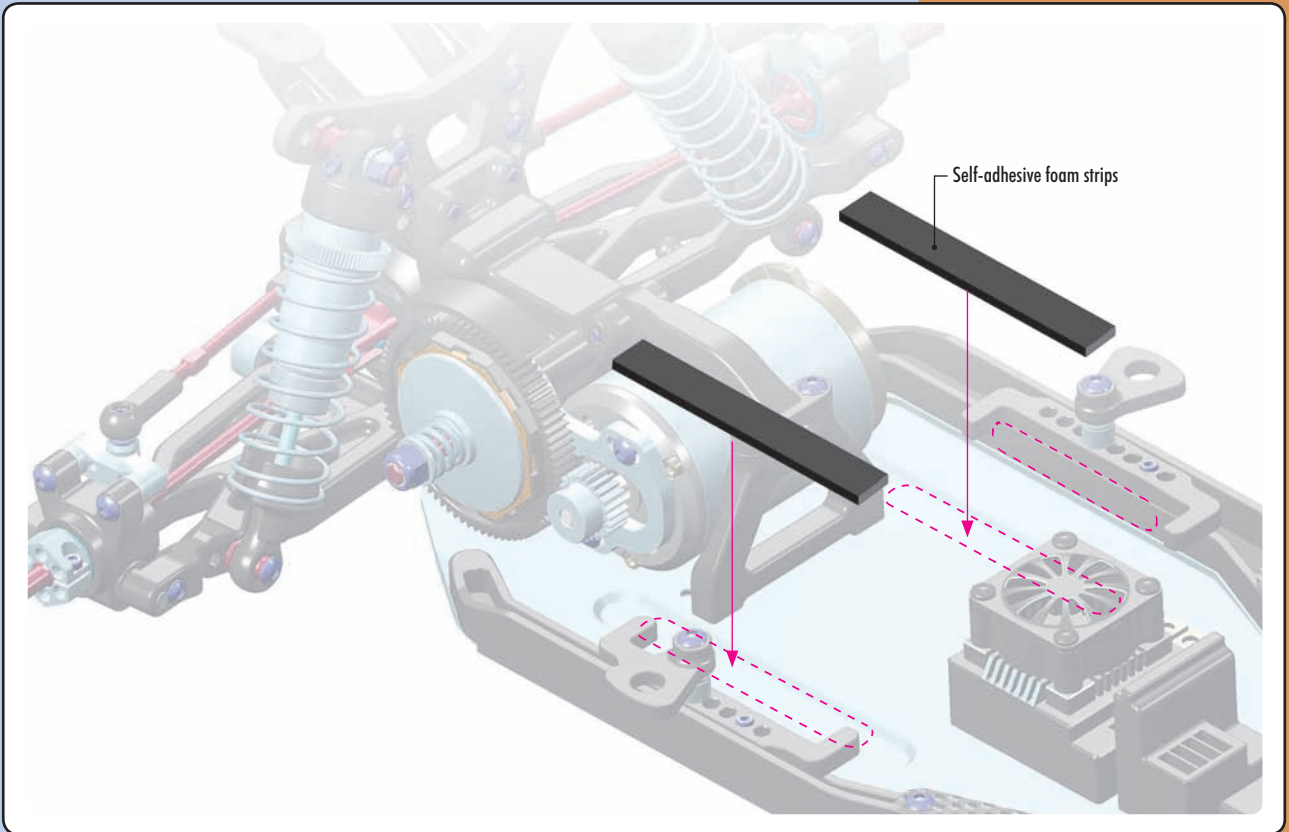
ORIENTATION FOR
LOW BATTERY PACK

HEIGHT ADJUSTMENT
1 turn = 0.5mm

TIGHTEN GENTLY

TIGHTEN GENTLY

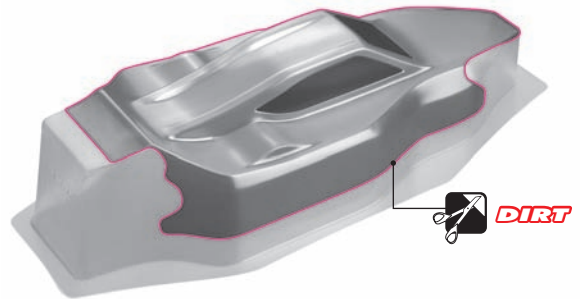
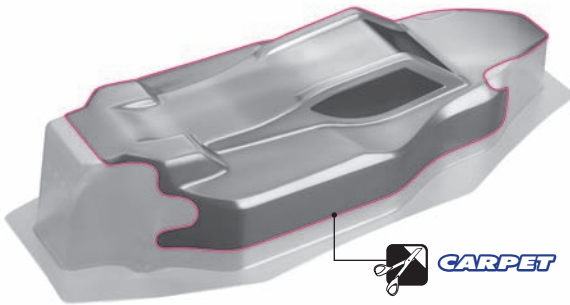
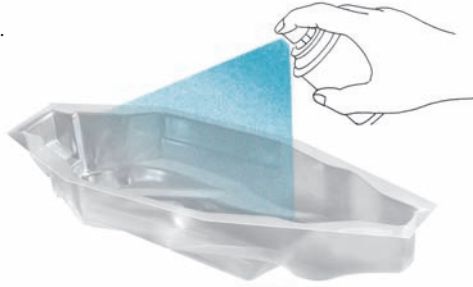




7. FINAL ASSEMBLY

CARPET DIRT

- 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.



- ❹ Apply paint masks as appropriate.
- ❺ Paint the body using paints formulated for polycarbonate bodies.
- ❻ When the paint is dry, remove the masking.
- ❼ Carefully cut out the body using appropriate scissors or cutting tools.
- ❽ When you have finished cutting, peel off the external protective films.



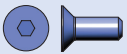
XRAY LEXAN BODY

#329701	0.50mm		OPTION
#329709	0.50mm	ALPHA 2	OPTION
#329710	0.75mm	GAMMA 2D	INCLUDED DIRT
#329711	0.50mm	GAMMA 2DL	OPTION
#329712	0.75mm	GAMMA 2C	INCLUDED CARPET
#329713	0.50mm	GAMMA 2CL	OPTION

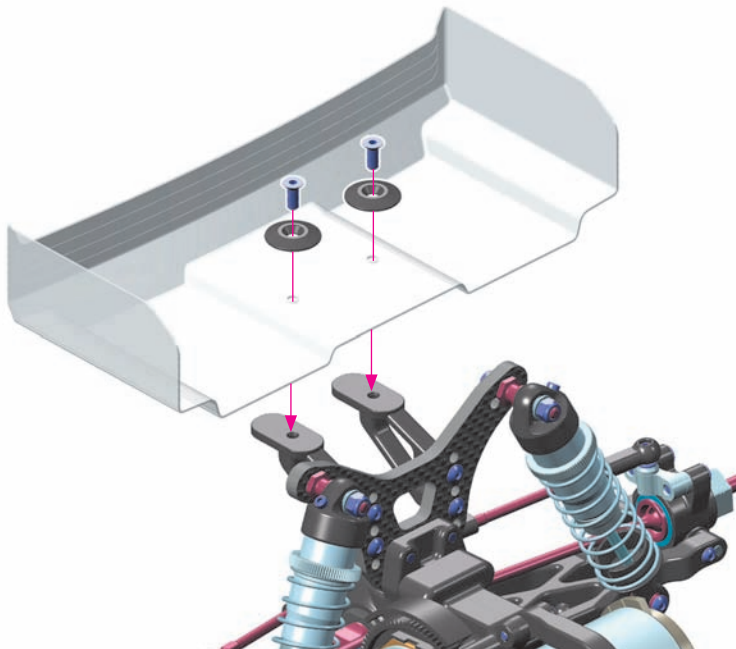


DIRT

CARPET



903308
SFH M3x8



REAR WING SHIM

#293561	SILVER	OPTION
#293561-O	ORANGE	OPTION
#293561-K	BLACK	OPTION



XRAY LEXAN REAR WING

#323510	1.0mm	OPTION
#323511	1.5mm	OPTION
#323513	1.0mm	RANK INCLUDED DIRT
#323517	1.0mm	TEC INCLUDED CARPET
#363510	1.0mm	OPTION
#363511	1.5mm	OPTION
#363512	2.0mm	OPTION

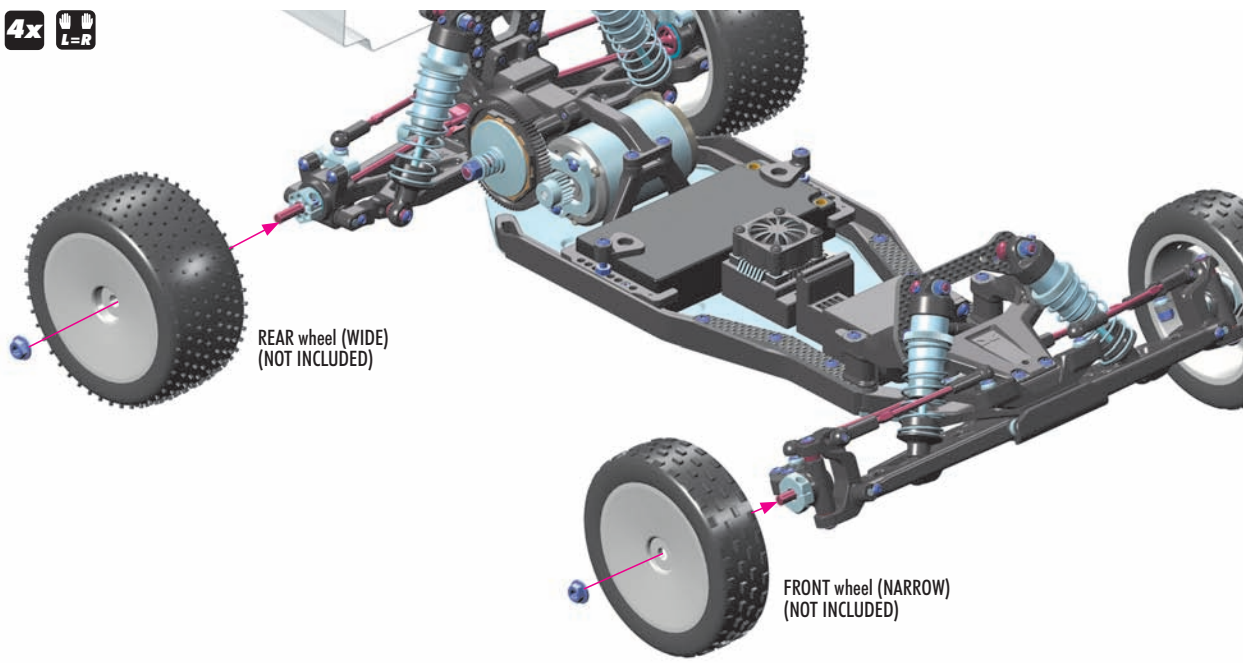


XRAY LEXAN CENTER FIN

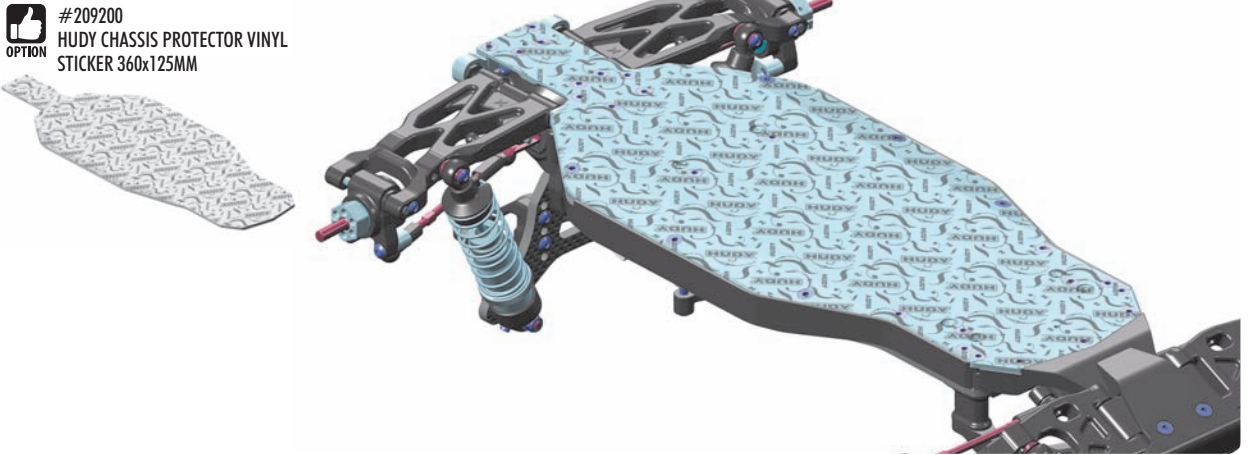
#323515	1.0mm	ZAP OPTION
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4x L=R

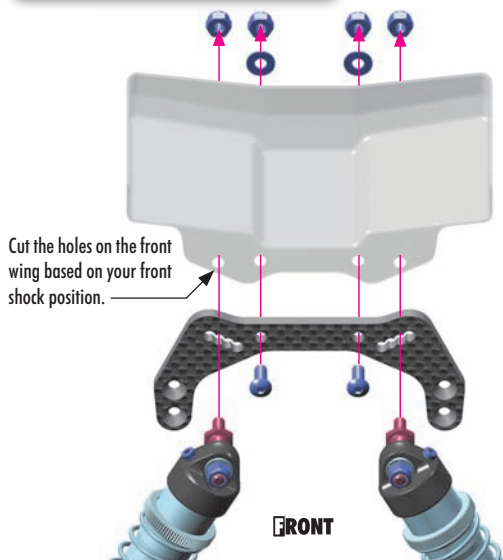


#209200
HUDY CHASSIS PROTECTOR VINYL
STICKER 360x125MM



XRAY FRONT WING		
#323512	-	OPTION
#323516	DIV	OPTION

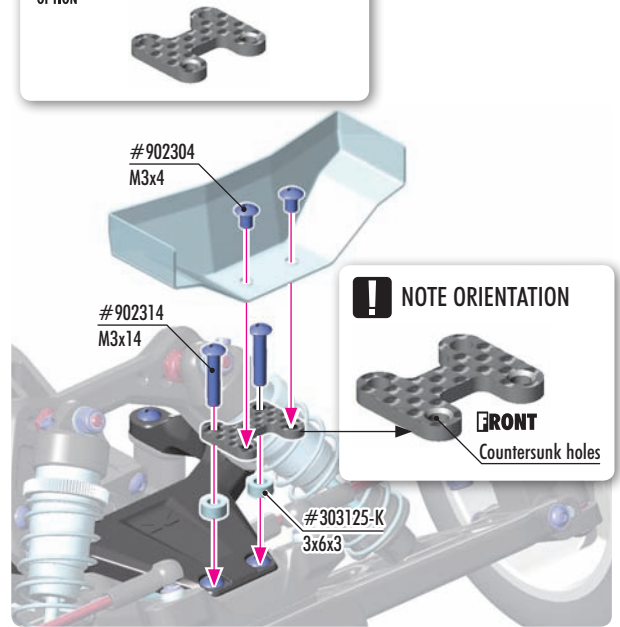
ALTERNATIVE 1
UPPER POSITION



Using front wing in upper position gives more steering but also more roll.

#321190
XB2 GRAPHITE FRONT WING HOLDER

ALTERNATIVE 2
LOWER POSITION



Cut the holes on the front wing based on your wing holder.
Using front wing in lower position gives more steering and less roll.

SHOCK MAINTENANCE

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

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

BEARING MAINTENANCE

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

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

- 1 Remove the seals on both sides of the bearing (if present). If the seals bend a little and you can see a kink, carefully flatten the kink out by hand.
- 2 Spray the seals with motor cleaner and blow dry with compressed air.
- 3 Spray the bearing on both sides with motor cleaner.
- 4 Spin the bearing while it is still wet to dislodge any particles with the cleaner.
- 5 Spray the bearing on both sides again.
- 6 Blow both sides of the bearing dry with compressed air to make sure particles come out.
- 7 Hold the inner part of the bearing with my left thumb/forefinger and spin it to make sure it spins free without any abnormal vibrations or sounds.
- 8 Place one drop of bearing oil into each side of the bearing.
- 9 Replace both seals at the same time by lining them up on each side of the bearing and lightly pressing them in all the way around the bearings circumference with your thumb and forefinger. Do not press too hard or use any type of tool, such as a wrench tip, to push the blue seals in as they will push in too far, bend and cause drag.

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



SUSPENSION & DRIVETRAIN MAINTENANCE

- Check suspension for free movement during building and operation, and especially after running and if you have crashed the car. If the suspension does not move freely, use the appropriate HUDY Arm Reamer to clean and resize the holes of the suspension arms.
- Regularly check the drive shaft pins and if they show any wear must be immediately replaced by new pins. If the car is run with worn pins, excessive wear on the diff outdrives will result. The #106000 HUDY Drive Pin Replacement Tool (for 3mm Pins) is a compact, rugged multi-use tool set for replacing 3mm drive pins in drive shafts. Use the HUDY replacement drive shaft pins 3x12 (#106051).
- Regularly inspect and replace the pins that connect the wheel drive shafts with wheel axles. Use HUDY Graphite Grease to lubricate the drive shaft connecting joints and the diff gears.
- Pivot balls and ball-joints will naturally wear for some time and will generate play. If there is too much play the pivot balls and ball joints need to be replaced.
- If the car is run in wet conditions, apply WD-40® on all drivetrain parts before the run. After the run, clean and dry the parts again.



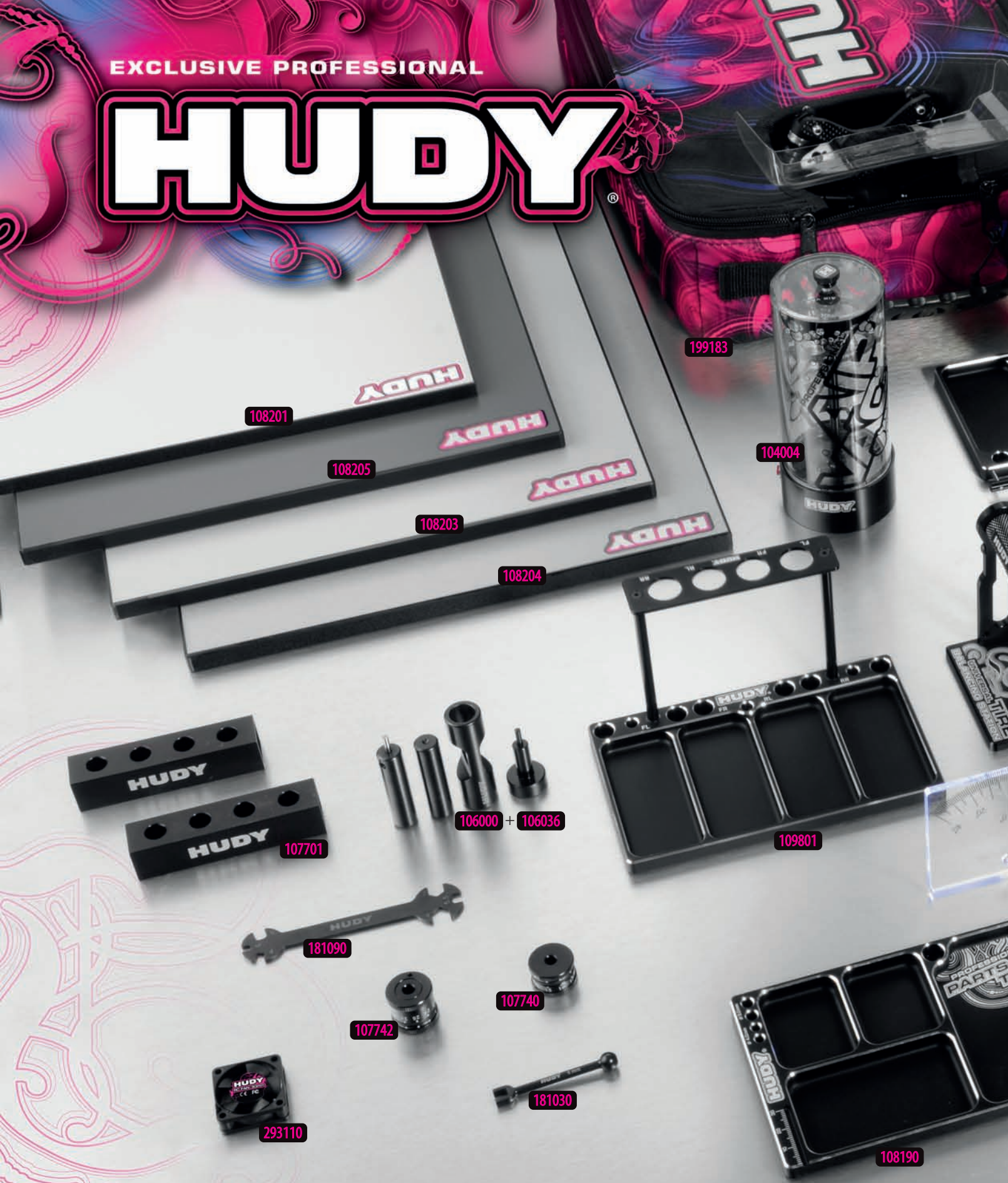
HUDY SPRING STEEL™

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.

EXCLUSIVE PROFESSIONAL

HUDY®



108201

108205

108203

108204

199183

104004

107701

106000 + 106036

109801

181090

107740

107742

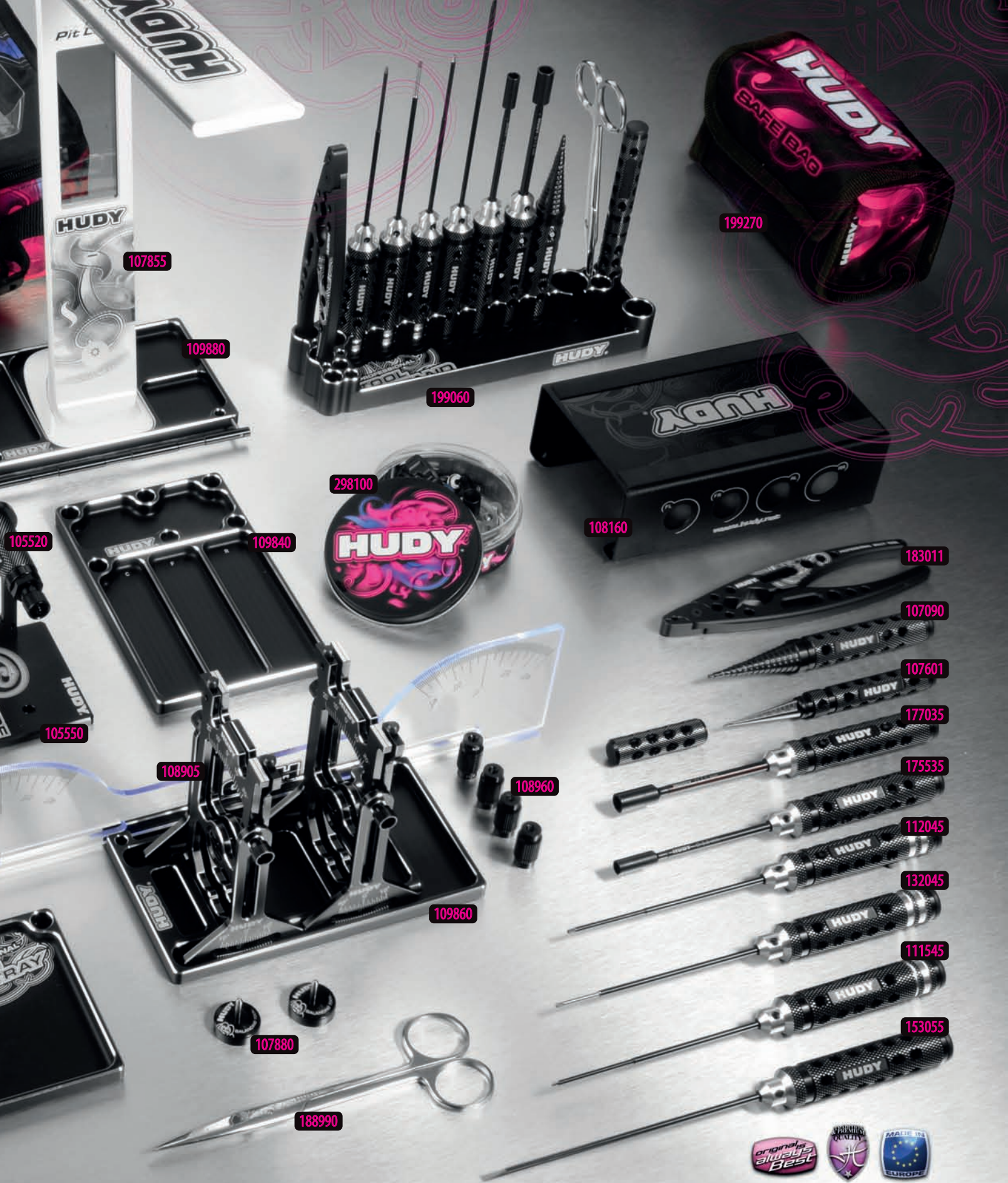
181030

293110

108190

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
108201 FLAT SET-UP BOARD FOR 1/10 TOURING CARS
108203 FLAT SET-UP BOARD FOR 1/10 TOURING CARS - SILVER GREY
108204 FLAT SET-UP BOARD FOR 1/10 TOURING CARS - TITAN
108205 FLAT SET-UP BOARD FOR 1/10 TOURING CARS - DARK GREY
108905 UNIVERSAL EXCLUSIVE SET-UP SYSTEM 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
- 293110 HUDY BRUSHLESS RC FAN 30MM
- 298100 HUDY TIN ROUND BOX 80X30MM
- 293110XL HUDY BRUSHLESS RC FAN 30MM - SET OF 12PCS

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

www.hudy.net



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