

XRAY

1/10 LUXURY ELECTRIC STADIUM TRUCK

XRT2

MADE IN
EUROPE



CARPET
EDITION

DIRT
EDITION

EOS
EURO OFFROAD SERIES
SEASON CHAMPION
4X

EOS
EURO OFFROAD SERIES
ROUND WINNER
16X

2X
NATIONAL
CHAMPION

INSTRUCTION MANUAL

INTRODUCTION

The XRAY XT2 is a modern, high-competition premium luxury racing 1/10 electric 2WD off-road buggy that is the epitome of high-performance and fine distinctive design. Your XT2 offers highest performance, responsive handling, and traditionally exceptional XRAY quality, engineering, and design. The superb craftsmanship and attention to detail are clearly evident everywhere on the XRAY XT2.

XT2 was designed around a no compromise platform; the attention to detail creates a low maintenance, extra long life electric buggy. The ultra-low center of gravity (CG) and optimized weight balance makes set-up, driving, and maintenance easy and quick.

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

The XRAY XT2 was created by blending highest-quality materials and excellent design. On high-speed flat tracks or bumpy tracks, whether driving for fun or racing to win, the XT2 delivers outstanding performance, speed, and precision handling.

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

SAFETY PRECAUTIONS

Contains:

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

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

CAUTION: CANCER HAZARD

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

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

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

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

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

IMPORTANT NOTES – GENERAL

- This product is not suitable for children under 16 years of age without the direct supervision of a responsible and knowledgeable adult.
- Carefully read all manufacturers warnings and cautions for any parts used in the construction and use of your model.
- Assemble this kit only in places away from the reach of very small children.
- First-time builders and users should seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.
- Exercise care when using tools and sharp instruments.
- Take care when building, as some parts may have sharp edges.
- Keep small parts out of reach of small children. Children must not be allowed to put any parts in their mouth, or pull vinyl bag over their head.
- Read and follow instructions supplied with paints and/or cement, if used (not included in kit).
- Immediately after using your model, do NOT touch equipment on the model such as the motor and speed controller, because they generate high temperatures. You may seriously burn yourself seriously touching them.
- Follow the operating instructions for the radio equipment at all times.
- Do not put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury as your finger, hair, clothes, etc. may get caught.
- Be sure that your operating frequency is clear before turning on or running your model, and never share the same frequency with somebody else at the same time. Ensure that others are aware of the operating frequency you are using and when you are using it.
- Use a transmitter designed for ground use with RC cars. Make sure that no one else is using the same frequency as yours in your operating area. Using the same frequency at the same time, whether it is driving, flying or sailing, can cause loss of control of the RC model, resulting in a serious accident.
- Always turn on your transmitter before you turn on the receiver in the car. Always turn off the receiver before turning your transmitter off.
- Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- Disconnect the battery pack before storing your model.
- When learning to operate your model, go to an area that has no obstacles that can damage your

model if your model suffers a collision.

- Remove any sand, mud, dirt, grass or water before putting your model away.
- If the model behaves strangely, immediately stop the model, check and clear the problem.
- To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
- The model car is not intended for use on public places and roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- Because the model car is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Since radio interference can cause momentary loss of control, always allow a safety margin in all directions around the model in order to prevent collisions.
- Do not use your model:
 - Near real cars, animals, or people that are unaware that an RC car is being driven.
 - In places where children and people gather
 - In residential districts and parks
 - In limited indoor spaces
 - In wet conditions
 - In the street
 - In areas where loud noises can disturb others, such as hospitals and residential areas.
 - At night or anytime your line of sight to the model may be obstructed or impaired in any way.

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



IMPORTANT NOTES – ELECTRICAL

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

SYMBOLS USED

Part bags used 	Assemble in the specified order 	Assemble left and right sides the same way 	Pay attention here 	Assemble as many times as specified (here twice) 	Apply threadlock 	Apply CA glue 	Apply oil
Scale 	Apply grease 	Optional parts 	Ensure smooth non-binding movement 	Tighten screw gently 	Completed assembly 	Detail 	Apply cleaner

TOOLS REQUIRED

Scissors (HUDY #188990) 	Special Tool for turnbuckles, nuts (HUDY #181090) 	Turnbuckle Wrench 3mm (HUDY #181030) 	Pocket Hobby Knife (HUDY #188981) 	Side Cutters (HUDY #189010) 	Combination Pliers (HUDY #189020) 	Professional Multi Tool (HUDY #183011)
Tweezer 	HUDY TOOLS: Allen 1.5mm Allen 2.0mm			Socket 5.5mm Socket 7.0mm	Arm Reamer 3.0mm Reamer (HUDY #107600) or (HUDY #107601)	

EQUIPMENT INCLUDED

<p>HUDY Premium Silicone Oils</p> <p>Oil 500cSt (#106350)</p> <p>Oil 650cSt (#106365)</p> <p>Oil 10.000cSt (#106510) (Carpet Version)</p>	<p>Graphite Grease (HUDY #106210)</p>
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NOT INCLUDED

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

SAMPLE OF OPTIONAL PARTS	
#32XXXX	OPTION 1
#32XXXX	OPTION 2
#32XXXX	INCLUDED
#32XXXX	OPTION 3

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

EQUIPMENT REQUIRED

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

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:

365884

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.

XT2 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.



1 Do not use drive shafts when the pins are worn.

2 Press out the worn pins.

3 Press in new pins and regularly inspect for wear.



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



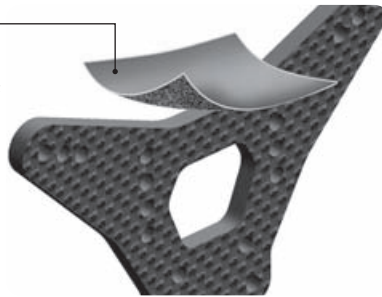
To replace the worn pins use only premium HUDY drive pins #106053.

TIP GRAPHITE PARTS PROTECTION

Protect all XT2 Graphite Parts:

- Rear shock tower

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

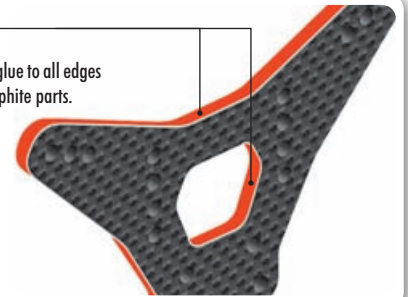


! SHOCK TOWER PROTECTION

Please follow the Instruction Manual and seal the edges of the shock tower with CA to reinforce them and help prevent delamination.



Apply CA glue to all edges of the graphite parts.



MANUAL STEPS ONLY FOR DIRT

1. BALL DIFFERENTIAL **DIRT**

BAG ()

MANUAL STEPS ONLY FOR CARPET

1. GEAR DIFFERENTIAL **CARPET**

BAG ()

MANUAL DUAL STEPS FOR CARPET AND DIRT

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

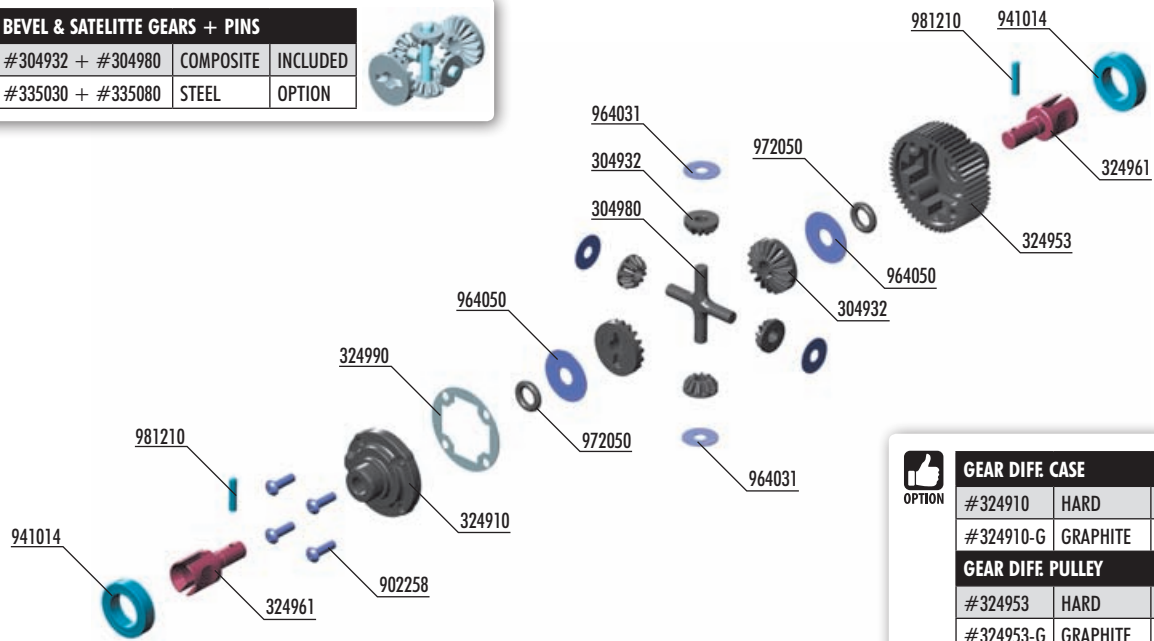
1. GEAR DIFFERENTIAL

CARPET



BEVEL & SATELLITE GEARS + PINS

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



GEAR DIFF CASE

#324910	HARD	INCLUDED
#324910-G	GRAPHITE	OPTION

GEAR DIFF PULLEY

#324953	HARD	INCLUDED
#324953-G	GRAPHITE	OPTION



BAG

01

- 30 4932 GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)
- 30 4980 COMPOSITE GEAR DIFF CROSS PIN
- 32 4990 DIFF GASKET (4)
- 32 4901 GEAR DIFFERENTIAL FOR 2.5MM PIN - SET
- 32 4910 COMPOSITE GEAR DIFFERENTIAL CASE
- 32 4953 COMPOSITE GEAR DIFFERENTIAL CASE WITH PULLEY 53T
- 32 4961 GEAR DIFF OUTDRIVE ADAPTER FOR 2.5MM PIN - HUDY SPRING STEEL™ (2)
- 90 2258 HEX SCREW SH M2.5x8 (10)
- 94 1014 BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)
- 96 4031 WASHER S 3.5x10x0.2 (10)
- 96 4050 WASHER S 5x15x0.3 (10)
- 97 2050 SILICONE O-RING 5x2 (10)
- 98 1210 PIN 2x10 (10)



964050
S 5x15x0.3

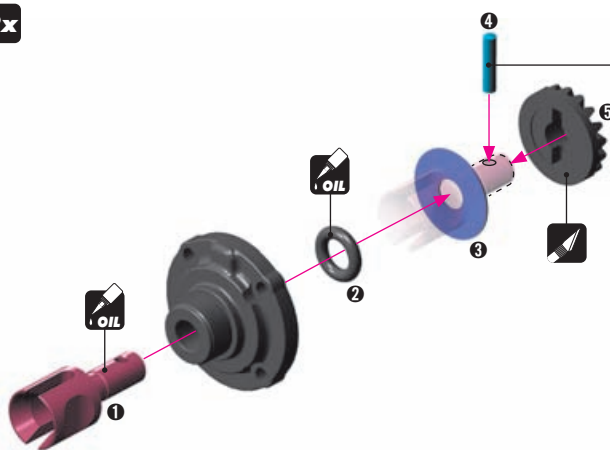


972050
O 5x2

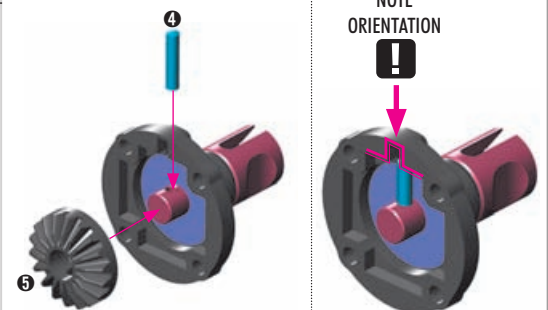


981210
P 2x10

2x



STEP 4 5



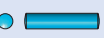
NOTE
ORIENTATION



964050
S 5x15x0.3



972050
O 5x2



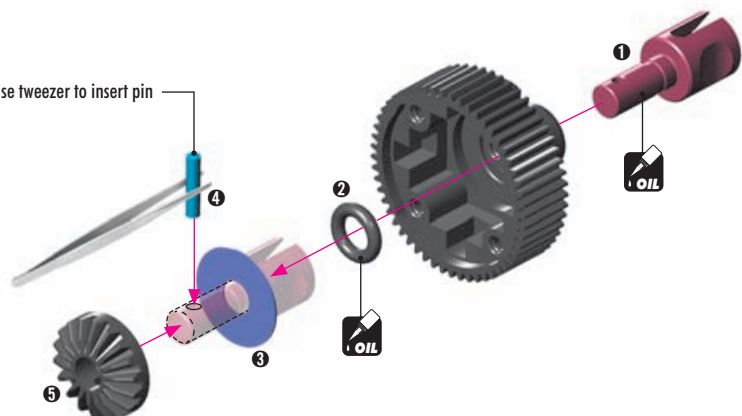
981210
P 2x10



NOTE
ORIENTATION



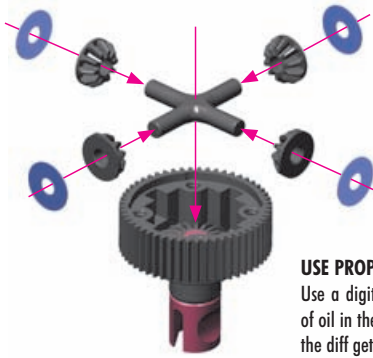
Use tweezers to insert pin



1. GEAR DIFFERENTIAL



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 10 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 11.62g)

$$11.62g + 0.95g = 12.57g$$

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



2 Slowly pour oil into the diff and watch the weight. Add 0.95g of oil into the diff. The approximate weight of the diff including oil is 12.57g.

TIP TIPS FOR REAR DIFFERENTIAL

- LOW-MEDIUM TRACTION 5 000cSt (HUDY #106450)
- MEDIUM-HIGH TRACTION 10 000cSt (HUDY #106511)

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



HUDY ULTIMATE SILICONE OILS

#106420	2000cSt - 50ml	OPTION
#106430	3000cSt - 50ml	OPTION
#106450	5000cSt - 50ml	OPTION
#106460	6000cSt - 50ml	OPTION
#106470	7000cSt - 50ml	OPTION
#106480	8000cSt - 50ml	OPTION
#106510	10.000cSt - 50ml	INCLUDED

SET-UP BOOK

DIFFERENTIAL OIL



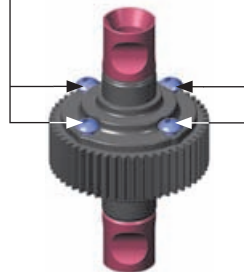
902258
SH M2.5x8



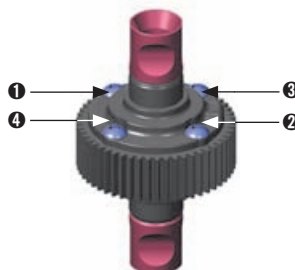
941014
BB 10x15x4



Tighten the screws equally but do NOT tighten them completely.

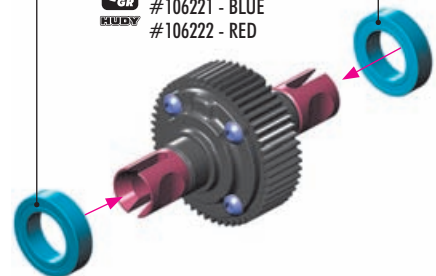


Finish tightening in this order.



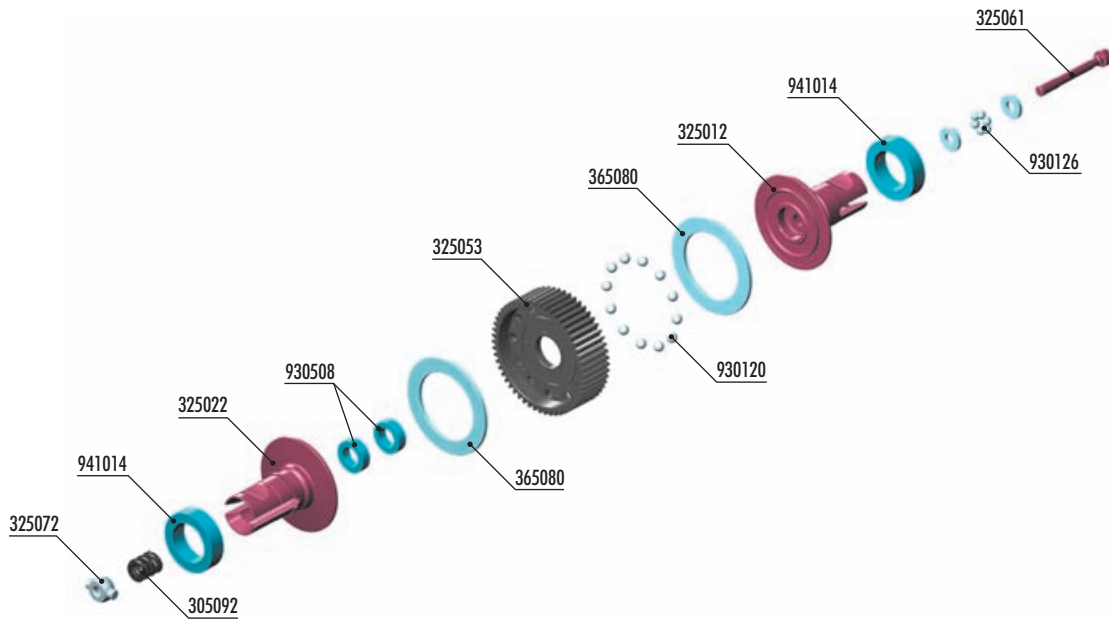
Use HUDY Ball-Bearing Grease

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



1. BALL DIFFERENTIAL

DIRT



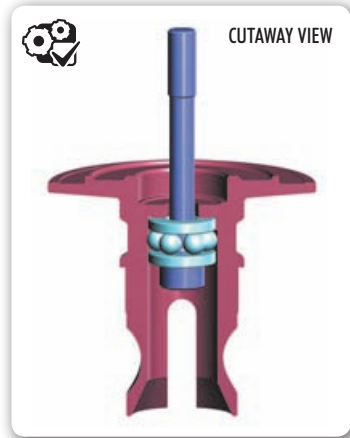
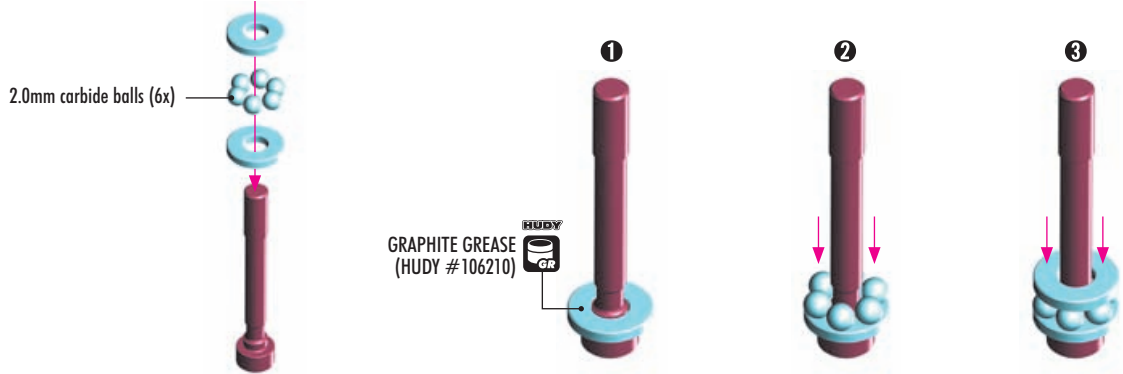
BAG

01

30 5092	BALL DIFFERENTIAL SPRING	32 5072	ALU BALL DIFFERENTIAL NUT
32 5002	BALL ADJUSTABLE DIFFERENTIAL FOR 2.5MM PIN SET - SPRING STEEL™	36 5080	DIFF WASHER 17 x 24.5 x 1 (2)
32 5012	BALL DIFF SHORT OUTPUT SHAFT - HUDY SPRING STEEL™	93 0120	CARBIDE BALL 2.4MM FOR BALL DIFF (12)
32 5022	BALL DIFF LONG OUTPUT SHAFT - HUDY SPRING STEEL™	93 0126	CARBIDE BALL-BEARING AXIAL 2.6x6x1
32 5053	COMPOSITE BALL DIFFERENTIAL GEAR 53T	93 0508	BALL-BEARING 5x8x2.5 STEEL SEALED - OIL (2)
32 5061	SCREW FOR BALL DIFF ADJUSTMENT - SPRING STEEL™	94 1014	BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)



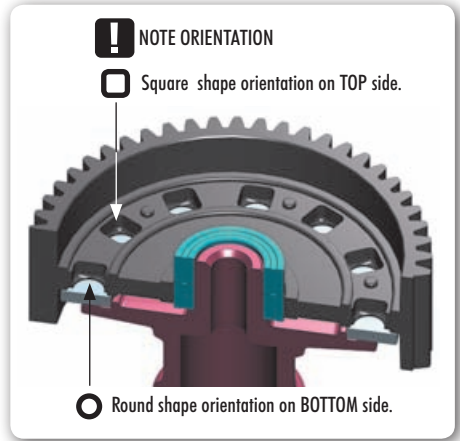
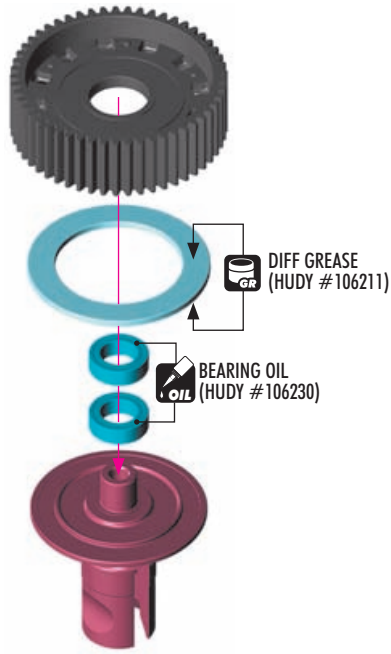
930126
BA 2.6x6x1



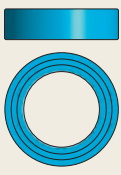
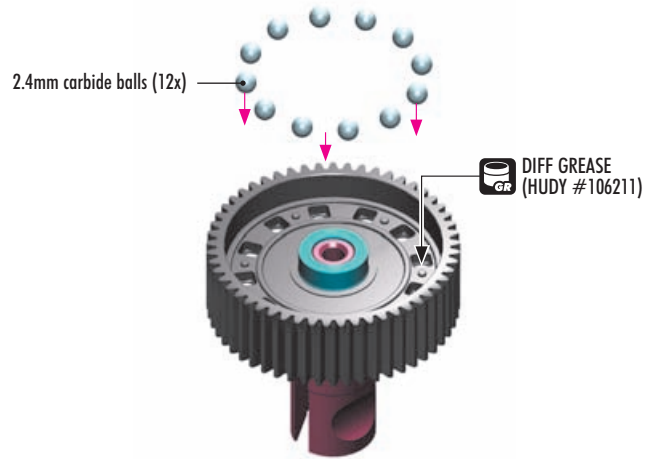
1. BALL DIFFERENTIAL



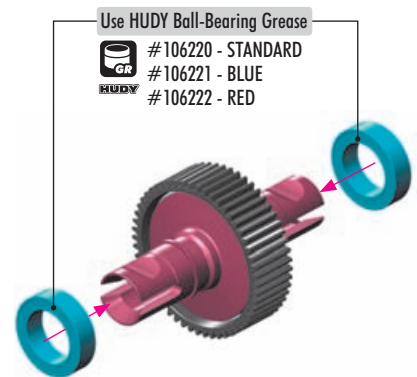
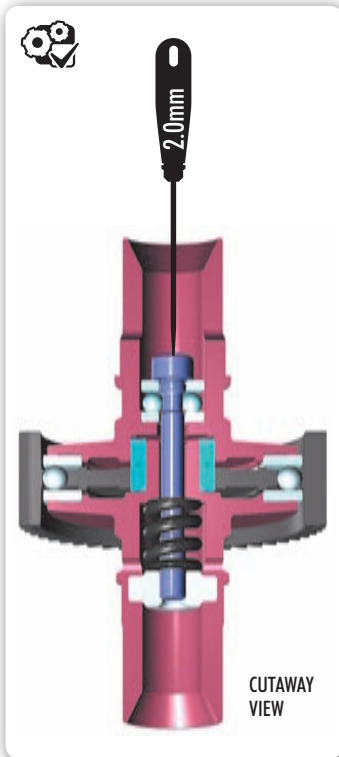
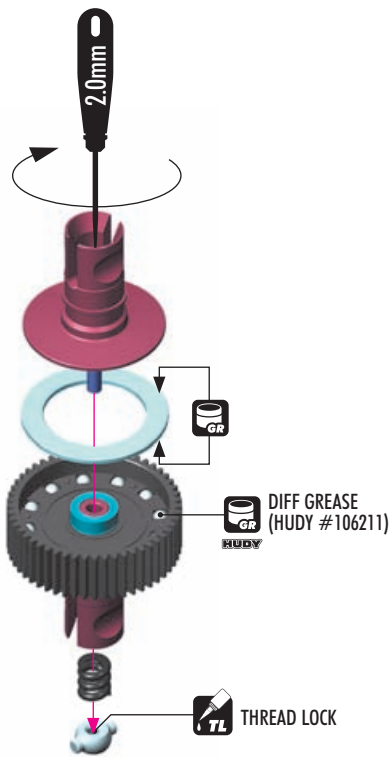
930508
BB 5x8x2.5



930120
B 2.4



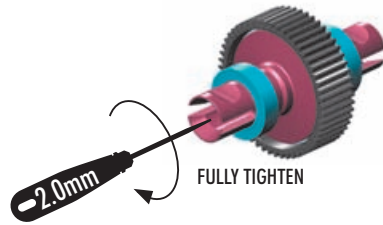
941014
BB 10x15x4



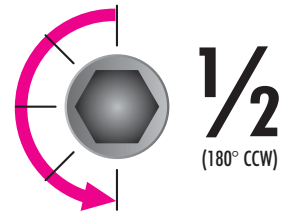
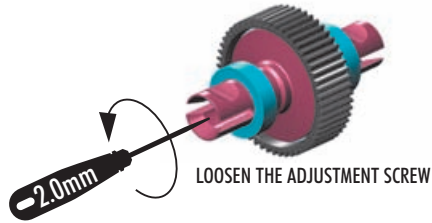


BEFORE RACING, follow these steps to properly break in the differential.

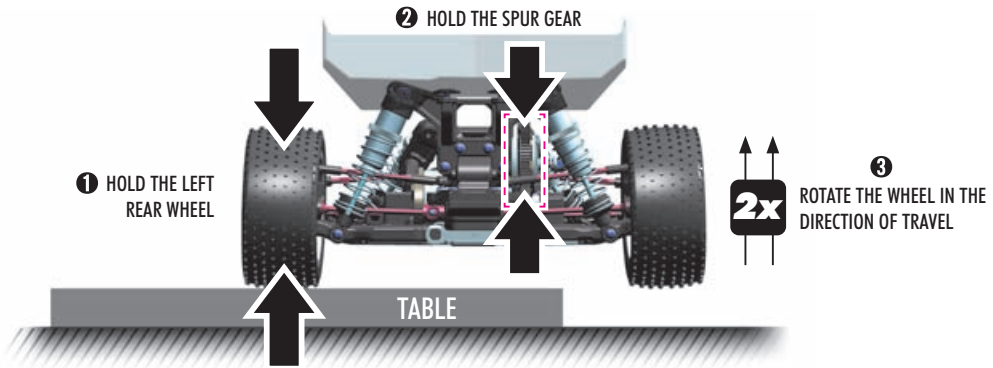
1



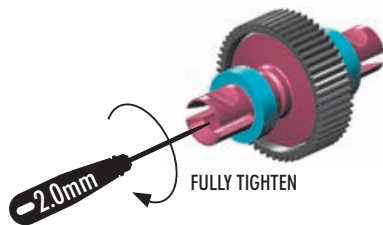
2 Loosen the adjustment screw 1/2 turn (180° CCW).



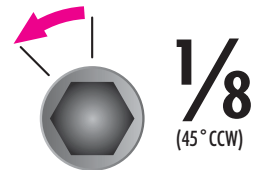
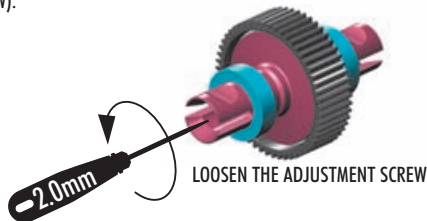
3



4



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

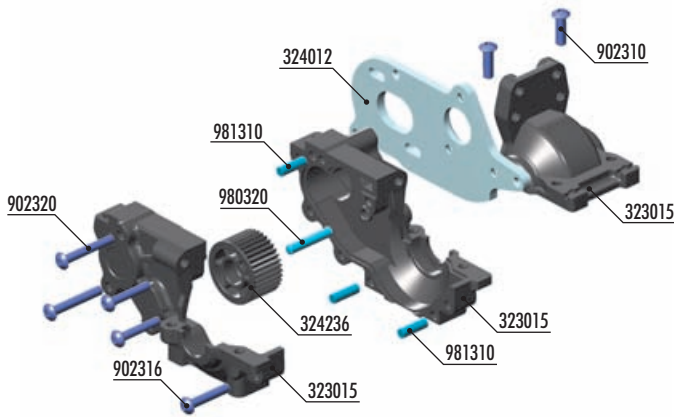
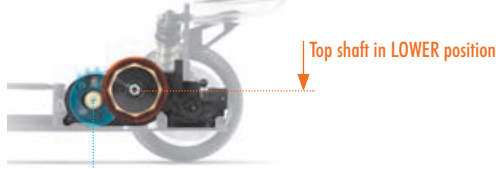


BALL DIFFERENTIAL IS NOW READY

BAG
02

GEAR BOX FRONT MOTOR POSITION

(For HIGH TRACTION track)

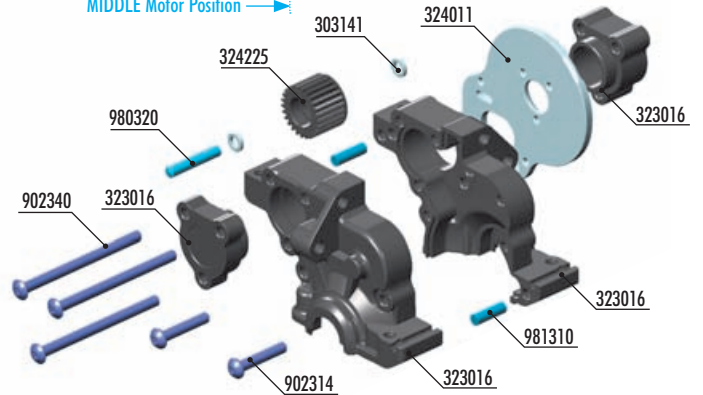
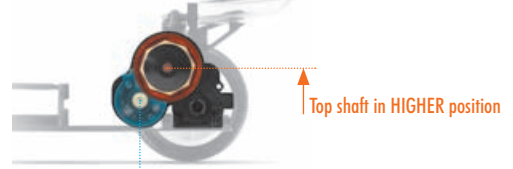


For Front motor Gear box assembly follow instructions on page 14 .

BAG
08

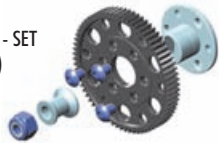
GEAR BOX MIDDLE MOTOR POSITION

(For LOW TRACTION track)



For Middle motor Gear box assembly follow instructions on page 12 .

OPTION #324100
SLIPPER ELIMINATOR - SET
(69T / 48 SPUR GEAR)



OPTION #325872
SLIPPER ELIMINATOR
SPUR GEAR 72T / 48



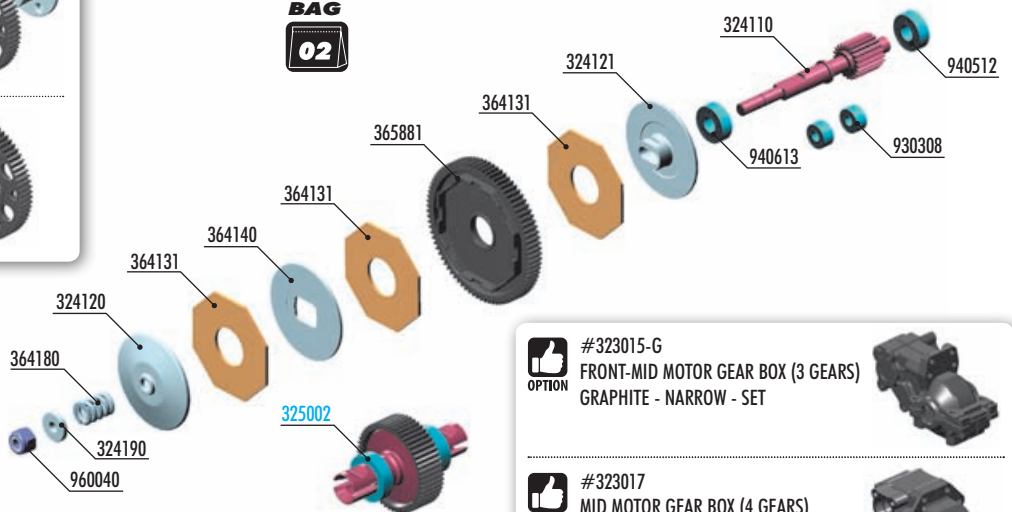
OPTION **SLIPPER CLUTCH SPUR GEARS**

#365875	75T / 48	OPTION
#365878	78T / 48	OPTION
#365881	81T / 48	INCLUDED
#365884	84T / 48	OPTION
#365887	87T / 48	OPTION

OPTION 2-PAD SLIPPER CLUTCH



BAG
02



OPTION #323015-G
FRONT-MID MOTOR GEAR BOX (3 GEARS)
GRAPHITE - NARROW - SET



OPTION #323017
MID MOTOR GEAR BOX (4 GEARS)
NARROW - SET



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



BAG
02

- 30 3141 ALU SHIM 3x5x1.0MM (10)
- 32 3015 FRONT-MID MOTOR GEAR BOX (3 GEARS) - NARROW - SET
- 32 4012 ALU FRONT-MID MOTOR (3 GEARS) PLATE - 7075 T6 (3MM)
- 32 4110 ALU TOP SHAFT 20T - SWISS 7075 T6 - HARD COATED
- 32 4120 ALU 3-PAD SLIPPER CLUTCH PLATE - SWISS 7075 T6
- 32 4121 ALU 3-PAD SLIPPER CLUTCH PLATE WITH ADAPTER
- 32 4190 ALU 3-PAD SLIPPER CLUTCH SHIM
- 32 4236 COMPOSITE GEAR 36T - GRAPHITE
- 36 4131 SLIPPER CLUTCH PAD "SLS" - V2 (2)
- 36 4140 ALU 3-PAD SLIPPER CLUTCH PLATE DISC - 7075 T6
- 36 4180 SLIPPER CLUTCH SPRING C=30 - BLACK
- 36 5881 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 81T / 48

- 90 2310 HEX SCREW SH M3x10 (10)
- 90 2316 HEX SCREW SH M3x16 (10)
- 90 2320 HEX SCREW SH M3x20 (10)
- 93 0308 BALL-BEARING 3x8x4 (2)
- 94 0512 HIGH-SPEED BALL-BEARING 5x12x4 RUBBER SEALED (2)
- 94 0613 HIGH-SPEED BALL-BEARING 6x13x5 RUBBER SEALED (2)
- 96 0040 NUT M4 (10)
- 98 0320 PIN 3x20 (10)
- 98 1310 PIN 3x10 (10)

32 5002 BALL ADJUSTABLE DIFFERENTIAL FOR 2.5MM PIN SET - HUDY SPRING STEEL™

BAG
08

- 30 3141 ALU SHIM 3x5x1.0MM (10)
- 32 3016 COMPOSITE MID MOTOR GEAR BOX (3 GEARS) - NARROW - SET
- 32 4011 ALU MID & REAR MOTOR PLATE - SWISS 7075 T6 (3MM)

- 32 4225 COMPOSITE GEAR 25T - GRAPHITE
- 90 2314 HEX SCREW SH M3x14 (10)
- 90 2340 HEX SCREW SH M3x40 (10)

GEAR BOX MIDDLE MOTOR POSITION (For LOW TRACTION track)

981310
P 3x10

980320
P 3x20

3x10mm

3x20mm

3x10mm

930308
BB 3x8x4

303141
SHIM 3x5x1

GRAPHITE GREASE (HUDY #106210)

BEARING OIL (HUDY #106230)

BEARING OIL (HUDY #106230)

3x5x1mm

3x5x1mm

NOTE ORIENTATION

25T

940512
BB 5x12x4

940613
BB 6x13x5

902340
SH M3x40

BEARING OIL (HUDY #106230)

Bearing with BLUE rubber covers.

5x12x4mm

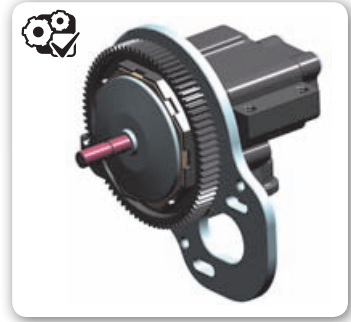
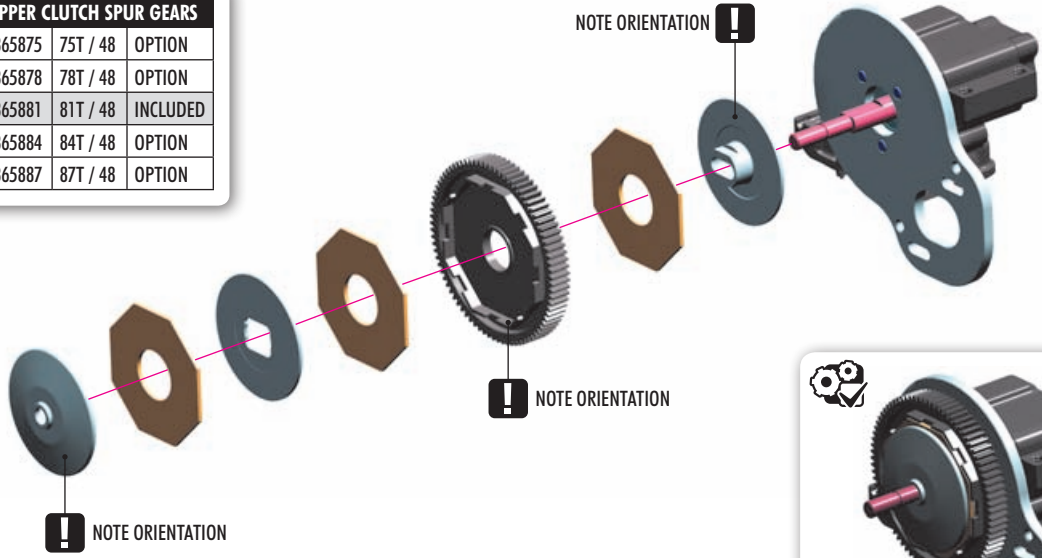
CLOSED

OPEN

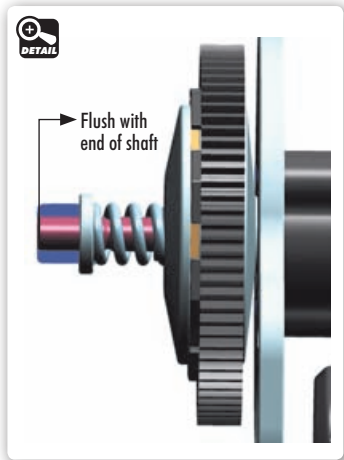
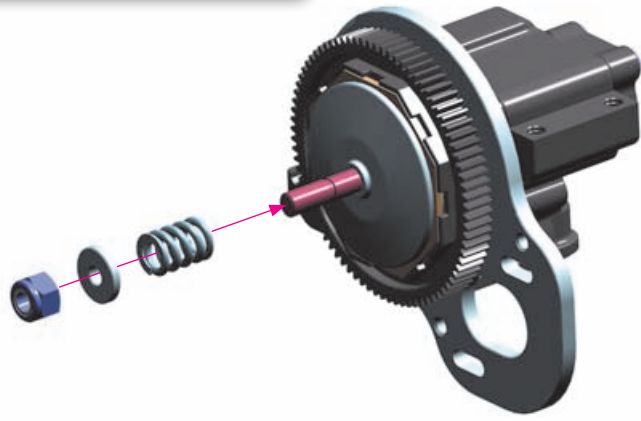
6x13x5mm

BEARING OIL (HUDY #106230)

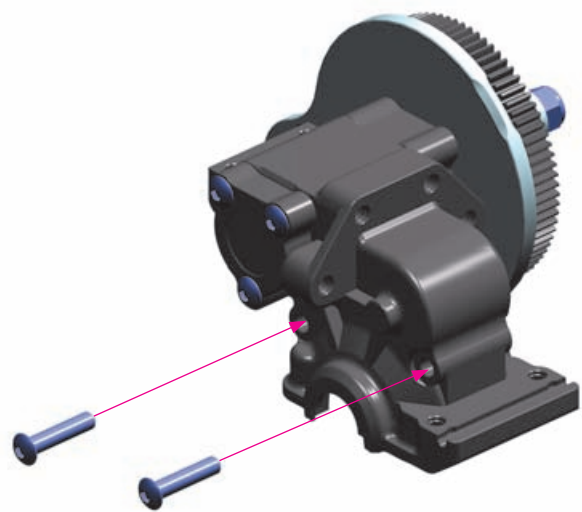
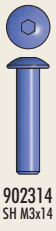
SLIPPER CLUTCH SPUR GEARS			
OPTION	#365875	75T / 48	OPTION
	#365878	78T / 48	OPTION
	#365881	81T / 48	INCLUDED
	#365884	84T / 48	OPTION
	#365887	87T / 48	OPTION



2-PAD SLIPPER CLUTCH			
OPTION	324125	364181	
		324124	



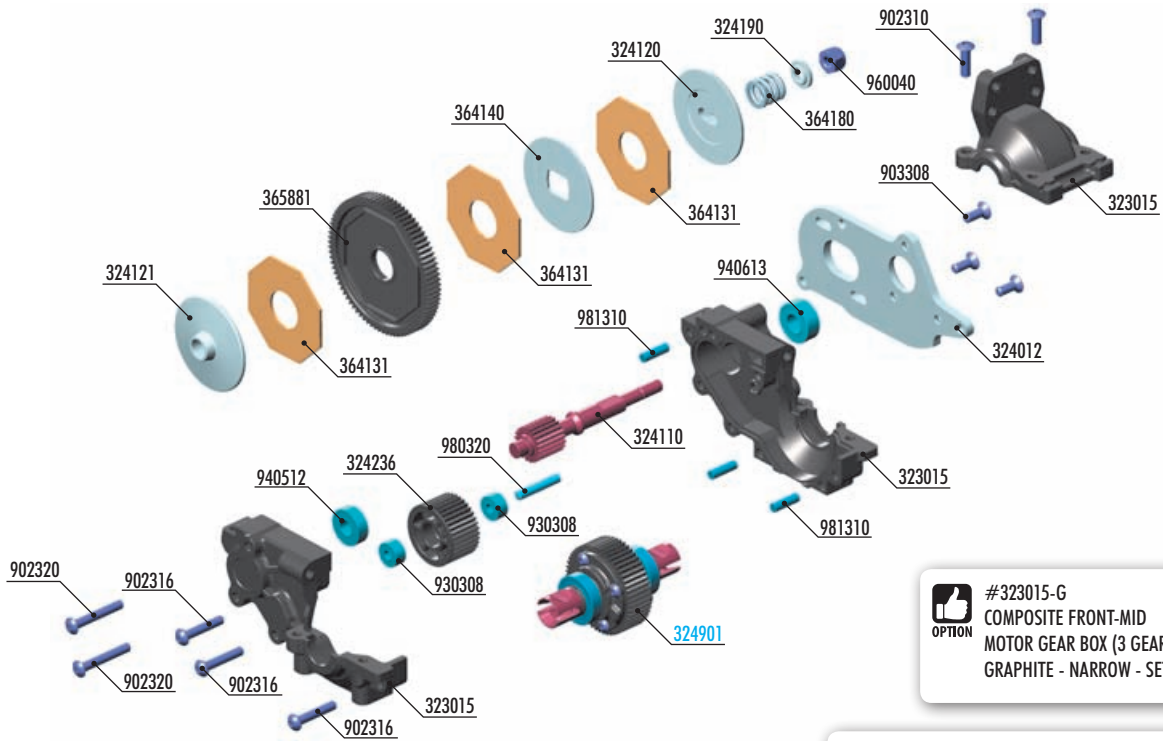
SET-UP BOOK
SLIPPER CLUTCH



2. REAR TRANSMISSION **CARPET** **DIRT**

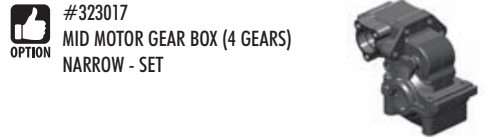
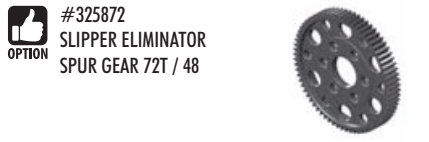
GEAR BOX FRONT MOTOR POSITION

(For HIGH TRACTION track)



OPTION

3-PAD SLIPPER CLUTCH SPUR GEAR		
#365875	75T / 48	OPTION
#365878	78T / 48	OPTION
#365881	81T / 48	INCLUDED
#365884	84T / 48	OPTION
#365887	87T / 48	OPTION



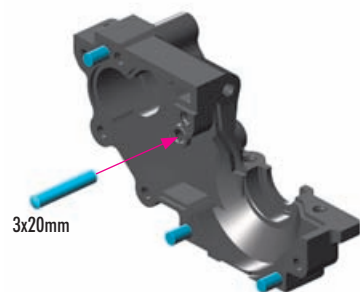
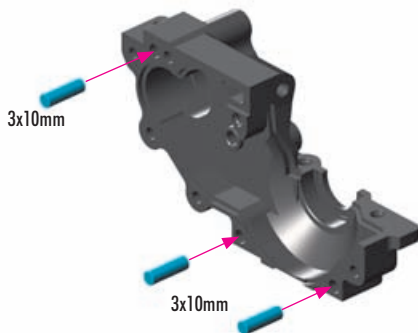
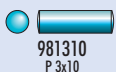
BAG

02

- 32 3015 COMPOSITE FRONT-MID MOTOR GEAR BOX (3 GEARS) - NARROW - SET
- 32 4012 ALU FRONT-MID MOTOR (3 GEARS) PLATE - SWISS 7075 T6
- 32 4110 ALU TOP SHAFT 20T - SWISS 7075 T6 - HARD COATED
- 32 4120 ALU 3-PAD SLIPPER CLUTCH PLATE - SWISS 7075 T6
- 32 4121 ALU 3-PAD SLIPPER CLUTCH PLATE WITH ADAPTER
- 32 4190 ALU 3-PAD SLIPPER CLUTCH SHIM
- 32 4236 COMPOSITE GEAR 36T - GRAPHITE
- 36 4131 SLIPPER CLUTCH PAD "SLS" - V2 (2)
- 36 4140 ALU 3-PAD SLIPPER CLUTCH PLATE DISC - 7075 T6
- 36 4180 SLIPPER CLUTCH SPRING C=30 - BLACK
- 36 5881 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 81T / 48

- 90 2310 HEX SCREW SH M3x10 (10)
- 90 2316 HEX SCREW SH M3x16 (10)
- 90 2320 HEX SCREW SH M3x20 (10)
- 90 3308 HEX SCREW SFH M3x8 (10)
- 93 0308 BALL-BEARING 3x8x4 STEEL SEALED - OIL (2)
- 94 0512 BALL-BEARING 5x12x4 RUBBER SEALED - OIL (2)
- 94 0613 BALL-BEARING 6x13x5 RUBBER SEALED - OIL (2)
- 96 0040 NUT M4 (10)
- 98 0320 PIN 3x20 (10)
- 98 1310 PIN 3x10 (10)

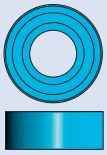
32 4901 GEAR DIFFERENTIAL FOR 2.5MM PIN - SET



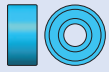
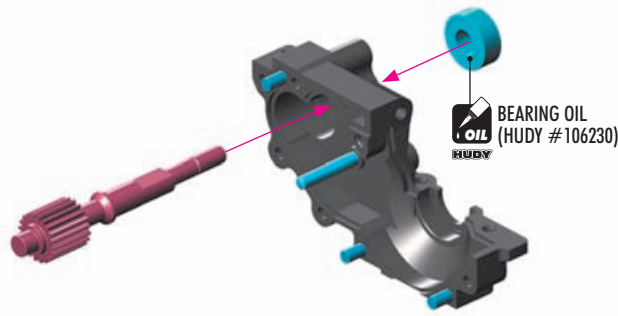
2. REAR TRANSMISSION

CARPET

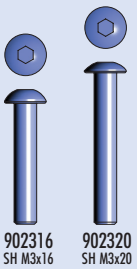
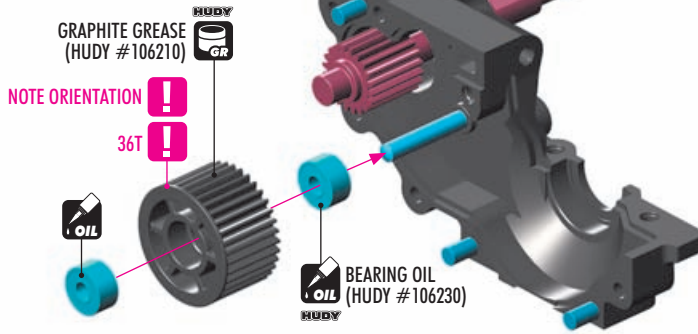
DIRT



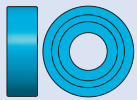
940613
BB 6x13x5



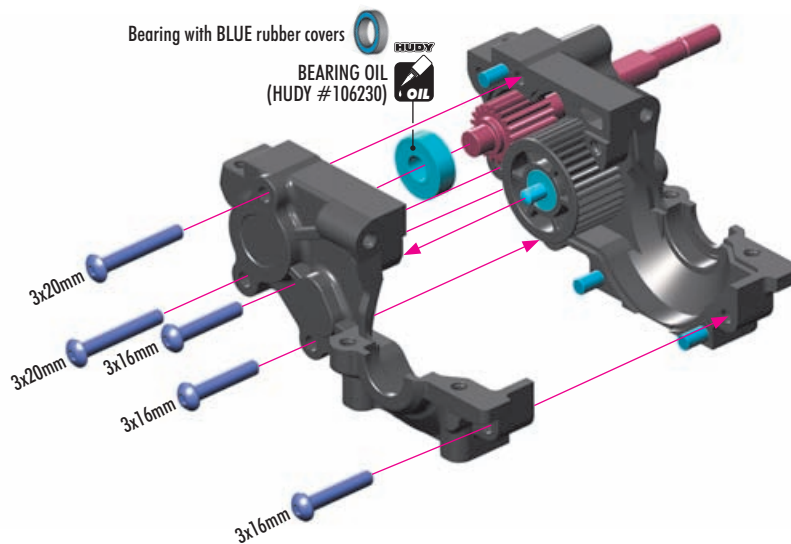
930308
BB 3x8x4



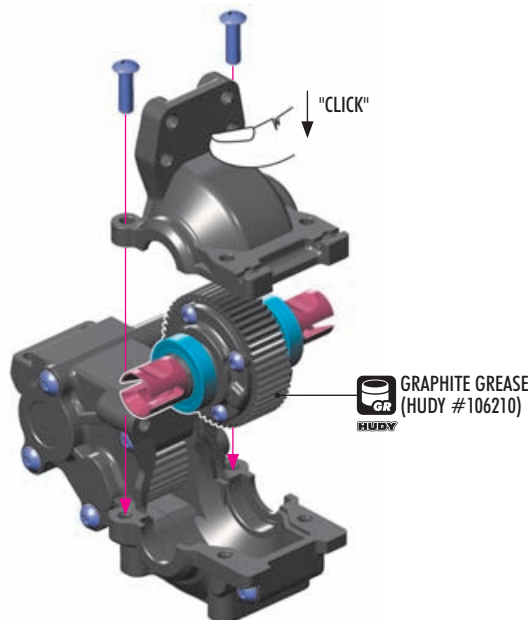
902316 SH M3x16
902320 SH M3x20



940512
BB 5x12x4



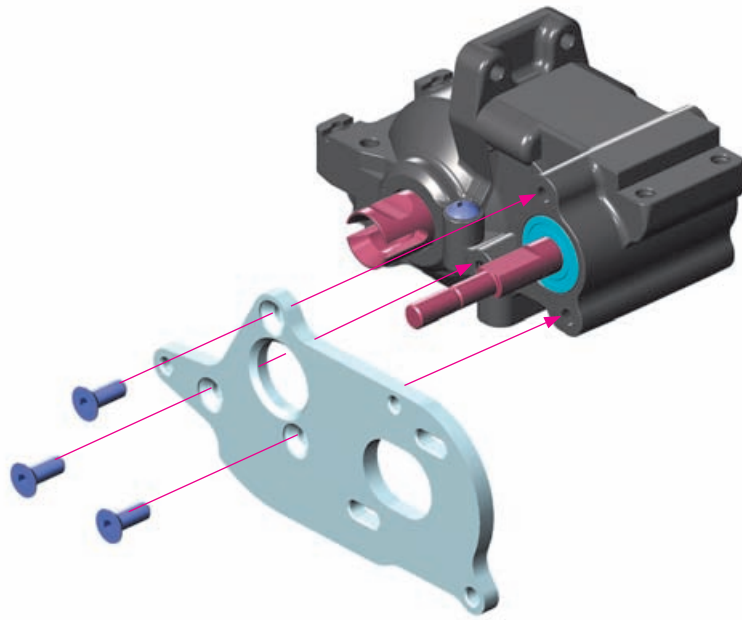
902310
SH M3x10



2. REAR TRANSMISSION **CARPET** **DIRT**



903308
SFH M3x8



#324100
SLIPPER ELIMINATOR - SET
(69T / 48 SPUR GEAR)



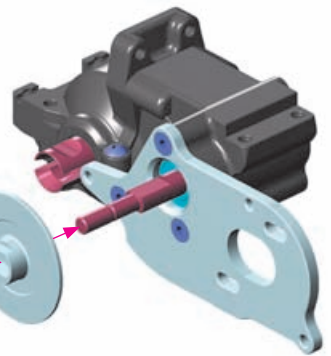
#325872
SLIPPER ELIMINATOR
SPUR GEAR 72T / 48



NOTE ORIENTATION !

NOTE ORIENTATION !

NOTE ORIENTATION !



3-PAD SLIPPER CLUTCH SPUR GEAR

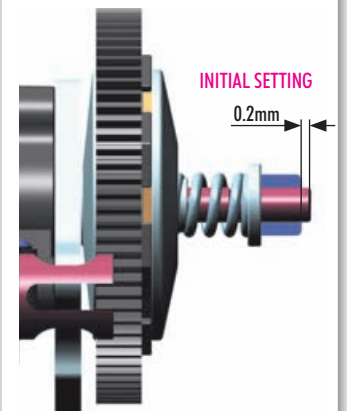
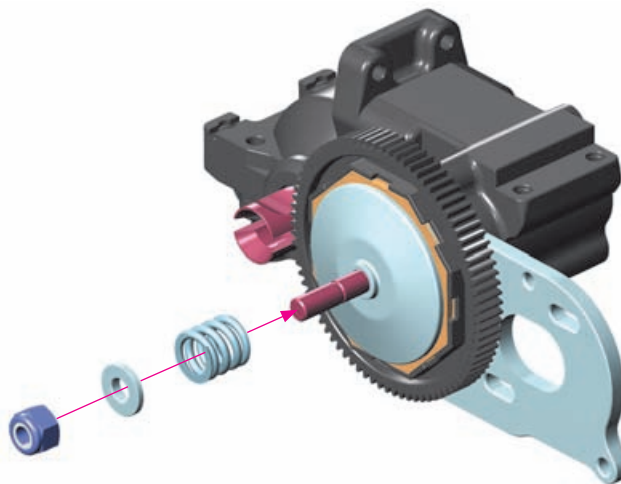
OPTION



#365875	75T / 48	OPTION
#365878	78T / 48	OPTION
#365881	81T / 48	INCLUDED
#365884	84T / 48	OPTION
#365887	87T / 48	OPTION



960040
N M4



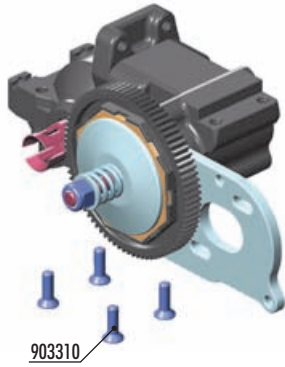
3. REAR SUSPENSION **CARPET** **DIRT**

BAG

03

GEAR BOX FRONT MOTOR POSITION

(For HIGH TRACTION track)



For Front motor Gear box assembly follow instructions on page 19 / step 1.

BAG

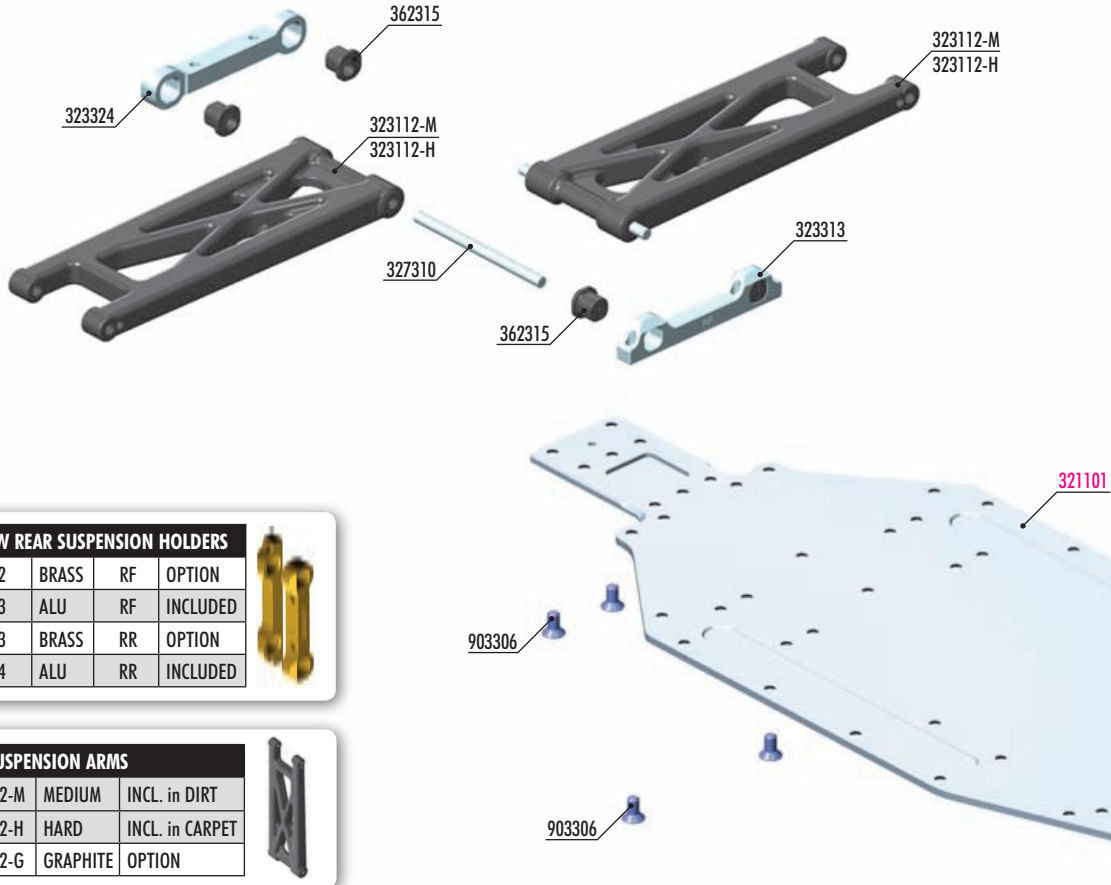
08

GEAR BOX MIDDLE MOTOR POSITION

(For LOW TRACTION track)



For Middle motor Gear box assembly follow instructions on page 19 / step 2.



NARROW REAR SUSPENSION HOLDERS

OPTION	Part #	Material	Position	Status
	#323312	BRASS	RF	OPTION
	#323313	ALU	RF	INCLUDED
	#323323	BRASS	RR	OPTION
	#323324	ALU	RR	INCLUDED



REAR SUSPENSION ARMS

OPTION	Part #	Material	Status
	#323112-M	MEDIUM	INCL. in DIRT
	#323112-H	HARD	INCL. in CARPET
	#323112-G	GRAPHITE	OPTION



BAG

03

- 32 3112-M COMPOSITE SUSPENSION ARM REAR LOWER RIGHT - MEDIUM
- 32 3112-H COMPOSITE SUSPENSION ARM REAR LOWER RIGHT - HARD
- 32 3313 ALU REAR LOWER SUSP. HOLDER - NARROW - FRONT - 7075 T6 (5MM)
- 32 3324 ALU REAR LOWER SUSP. HOLDER - NARROW - REAR - 7075 T6 (5MM)
- 32 7310 REAR SUSPENSION PIVOT PIN (2)
- 36 2315 ECCENTRIC BUSHING SET (2)

- 90 3306 HEX SCREW SFH M3x6 (10)
- 90 3310 HEX SCREW SFH M3x10 (10)

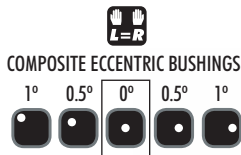
32 1101 XT2 ALU CHASSIS - SWISS 7075 T6 (2MM)

BAG

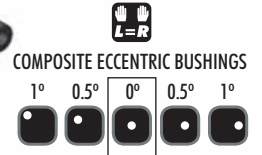
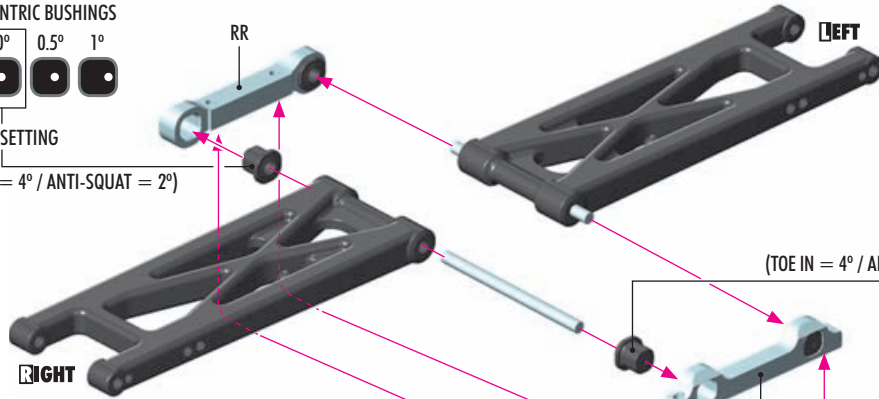
08

- 90 3306 HEX SCREW SFH M3x6 (10)
- 90 3322 HEX SCREW SFH M3x22 (10)

3. REAR SUSPENSION **CARPET DIRT**

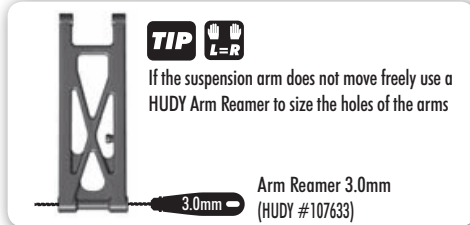
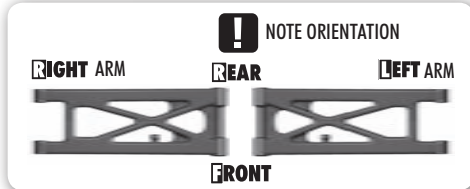


INITIAL SETTING
(TOE IN = 4° / ANTI-SQUAT = 2°)

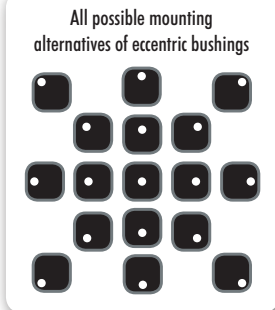
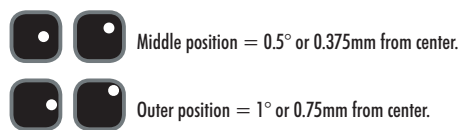


INITIAL SETTING

(TOE IN = 4° / ANTI-SQUAT = 2°)



ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE CENTER.



OPTION

NARROW REAR SUSPENSION HOLDERS			
#323312	BRASS	RF	OPTION
#323313	ALU	RF	INCLUDED
#323323	BRASS	RR	OPTION
#323324	ALU	RR	INCLUDED

OPTION

REAR SUSPENSION ARMS		
#323112-M	MEDIUM	INCL. in DIRT
#323112-H	HARD	INCL. in CARPET
#323112-G	GRAPHITE	OPTION

MEDIUM - For very-low & low traction
HARD - For medium & high traction
GRAPHITE - For high & very-high traction

SET-UP BOOK

TOE-IN
ANTI-SQUAT
ROLL CENTER
TRACK-WIDTH

The XRAY rear alu lower suspension holders provide great range of adjustment for the rear suspension. Using different combinations of eccentric bushings, fine adjustment of rear anti-squat, rear toe-in, rear roll center, and rear track-width can be obtained. For more information about the influence of rear anti-squat, rear toe-in, rear roll center and rear track width on car handling, please refer to HUDY Set-up Book (#209100).

ANTI-SQUAT		
RR	RF	(°)
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 2°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 3°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 1°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 3°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 2°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 4°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 1°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 2°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 0°

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

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

TOE-IN		
RR	RF	(°)
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 4°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 5°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 3°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 3°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 4°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 2°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 5°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 6°
○ ○ ○ ○ ○	○ ○ ○ ○ ○	= 4°

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.

Example:

0(RR) - 0 (RF) = 2°

0(RR) - 0.5 (RF) = 2.5°

0(RR) - 1 (RF) = 3°

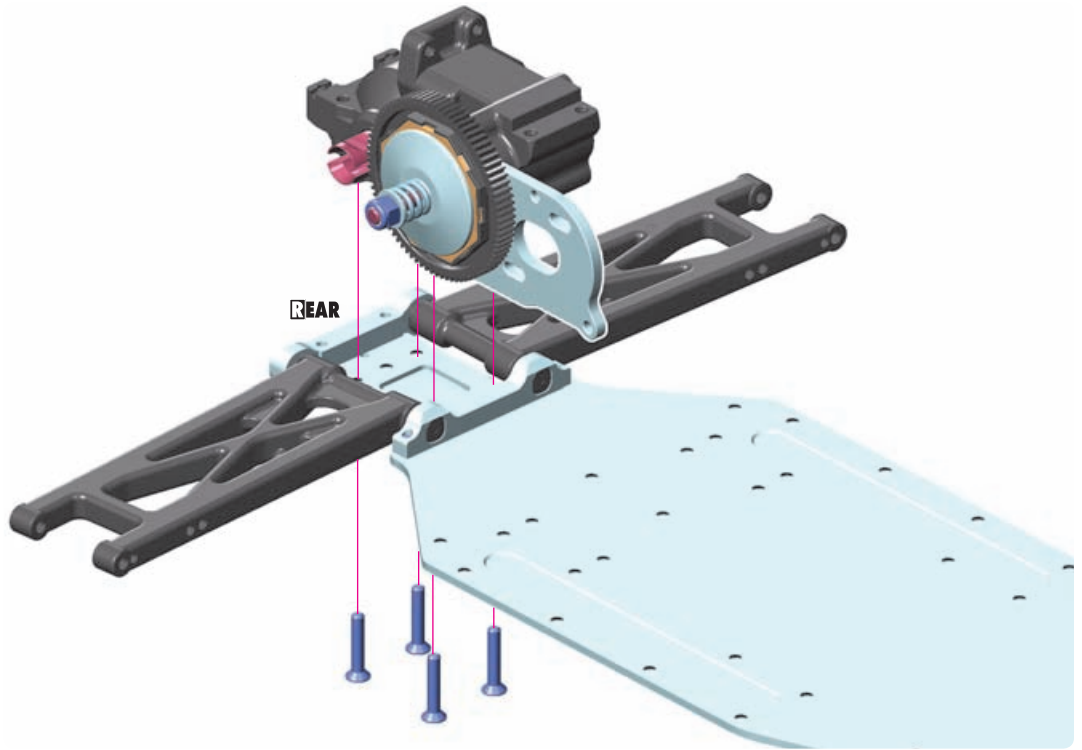
The track-width is directly influenced by the size of the wheels and tires used.

3. REAR SUSPENSION **CARPET** **DIRT**



903310
SFH M3x10

GEAR BOX FRONT MOTOR POSITION (For HIGH TRACTION track)

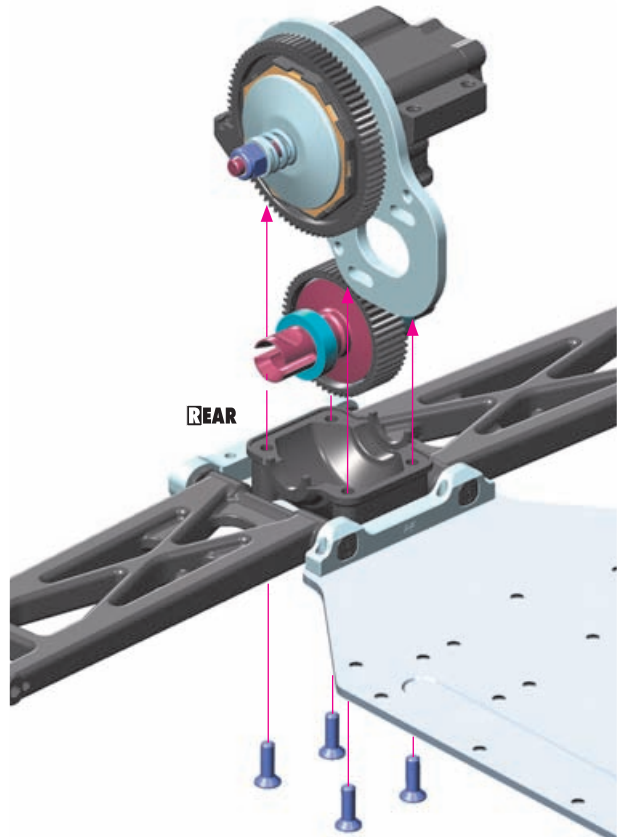
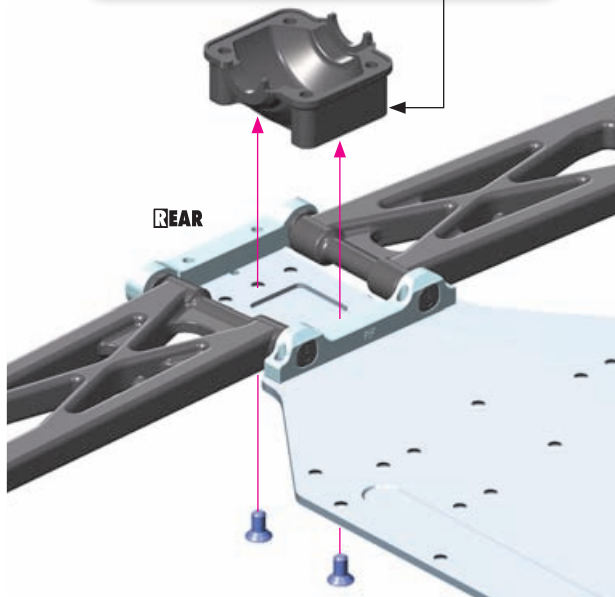
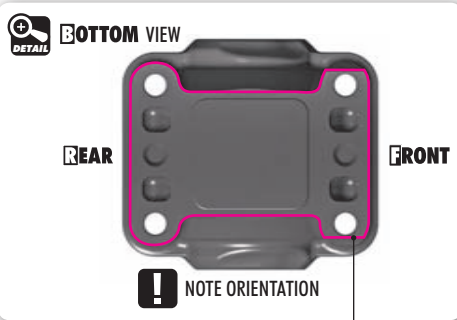


903306
SFH M3x6



903322
SFH M3x22

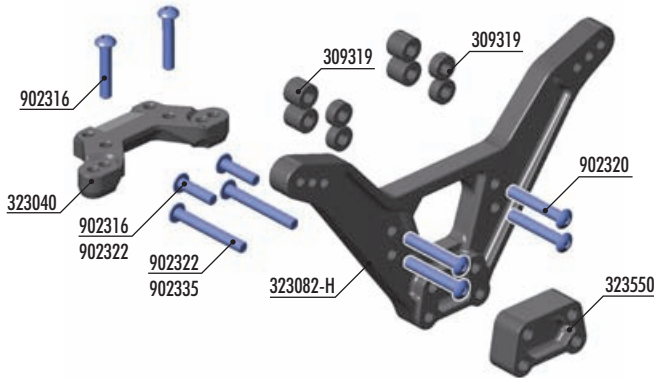
GEAR BOX MIDDLE MOTOR POSITION (For LOW TRACTION track)



BAG
03

GEAR BOX FRONT MOTOR POSITION

(For HIGH TRACTION track)

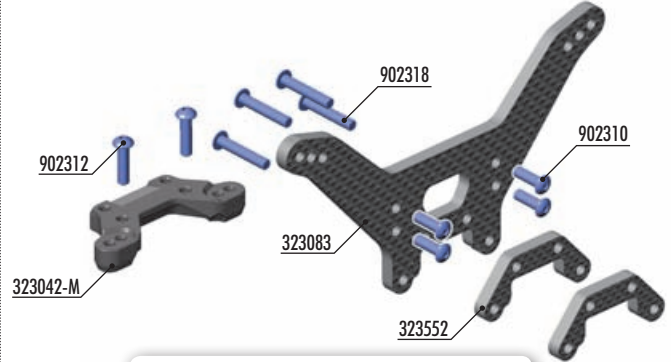


REAR ROLL CENTER HOLDER		
#323040	COMPOSITE	INCLUDED
#323041	ALU	OPTION

BAG
08

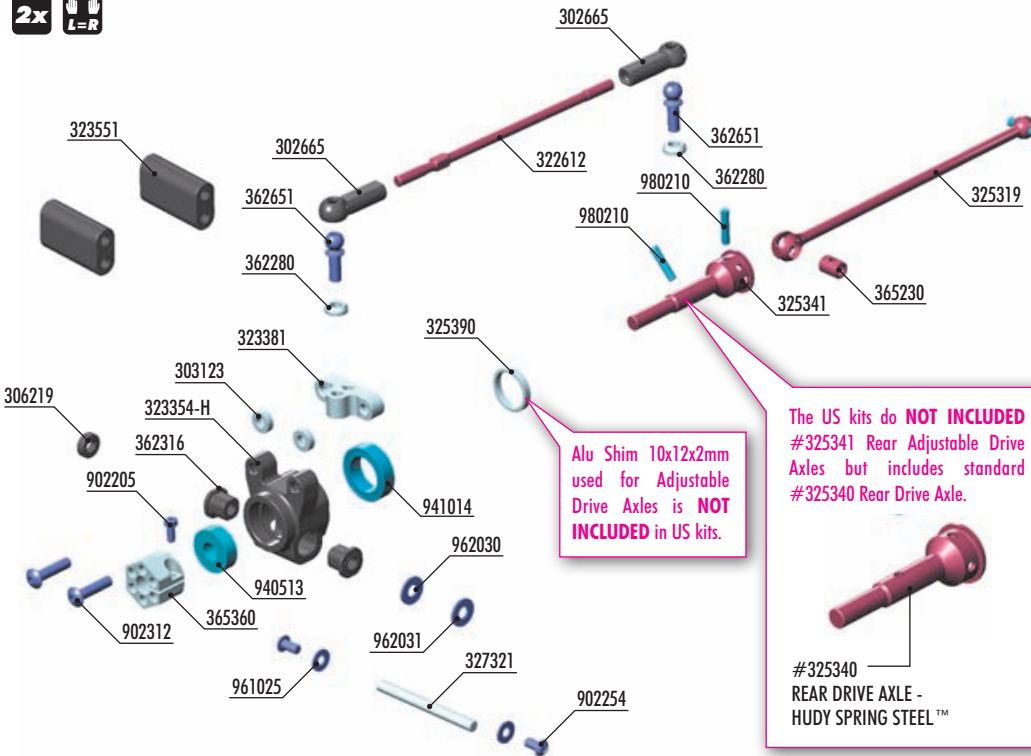
GEAR BOX MIDDLE MOTOR POSITION

(For LOW TRACTION track)



REAR ROLL CENTER HOLDER		
#323042-M	MEDIUM	INCLUDED
#323042-H	HARD	OPTION
#323041	ALU	OPTION

2x
L=R



Alu Shim 10x12x2mm used for Adjustable Drive Axles is **NOT INCLUDED** in US kits.

The US kits do **NOT INCLUDED** #325341 Rear Adjustable Drive Axles but includes standard #325340 Rear Drive Axle.

The standard wheel axles allow for majority of the track width adjustments but for some extreme settings optional longer drive shafts must be used:

DRIVE SHAFT		
#325319	93mm	INCLUDED
#325318	95mm	OPTION

#325340
REAR DRIVE AXLE - HUDY SPRING STEEL™



BAG
03

- 30 2665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
- 30 3123 ALU SHIM 3x6x2.0MM (10)
- 30 6219 COMPOSITE SET OF SERVO SHIMS (4)
- 30 9319 UNIVERSAL SET OF PLASTIC SHIMS
- 32 2612 ADJUSTABLE TURNBUCKLE 75MM M3 L/R - HUDY SPRING STEEL™ (2)
- 32 3040 COMPOSITE REAR ROLL CENTER HOLDER - CARPET EDITION
- 32 3082-H XT2 COMPOSITE SHOCK TOWER REAR - HARD
- 32 3354-H COMPOSITE UPRIGHT REAR - HARD
- 32 3381 ALU REAR HUB PLATE - SWISS 7075 T6
- 32 3550 COMPOSITE REAR SHOCK TOWER ADJUSTING SHIM
- 32 3551 XT2 COMPOSITE REAR BODY MOUNT (2)
- 32 5319 REAR DRIVE SHAFT 93MM - HUDY SPRING STEEL™
- 32 5341 REAR DRIVE AXLE LB - HUDY SPRING STEEL™
- 32 5390 ALU SHIM 10x12x2MM (2)
- 32 7321 REAR ARM PIVOT PIN (2)
- 36 2280 ALU CONICAL SHIM 3x6x2.0MM (10)
- 36 2316 ECCENTRIC BUSHING SET - OPEN (2)
- 36 2651 BALL END 4.9MM WITH THREAD 8MM (2)

- 36 5230 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
- 36 5360 ALU WHEEL HUB 12MM - OFFSET "+3.0MM" (2)
- 90 2205 HEX SCREW SH M2x5 (10)
- 90 2254 HEX SCREW SH M2.5x4 (10)
- 90 2312 HEX SCREW SH M3x12 (10)
- 90 2316 HEX SCREW SH M3x16 (10)
- 90 2320 HEX SCREW SH M3x20 (10)
- 90 2322 HEX SCREW SH M3x22 (10)
- 90 2335 HEX SCREW SH M3x35 (10)
- 94 0513 BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2)
- 94 1014 BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)
- 96 1025 WASHER S 2.5 (10)
- 96 2030 WASHER S 3x6x0.3 (10)
- 96 2031 WASHER S 3x6x0.1 (10)
- 98 0210 PIN 2x9.8 (10)

BAG
08

- 32 3042-M COMPOSITE REAR ROLL-CENTER HOLDER - DIRT EDITION - MEDIUM
- 32 3083 XT2 GRAPHITE SHOCK TOWER REAR 4.0MM
- 32 3552 XT2 GRAPHITE REAR SHOCK TOWER EXTENSION 4.0MM (2)

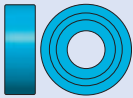
- 90 2310 HEX SCREW SH M3x10 (10)
- 90 2312 HEX SCREW SH M3x12 (10)
- 90 2318 HEX SCREW SH M3x18 (10)

3. REAR DRIVETRAIN

CARPET DIRT



902205
SH M2x5



940513
BB 5x12x4



941014
BB 10x15x4

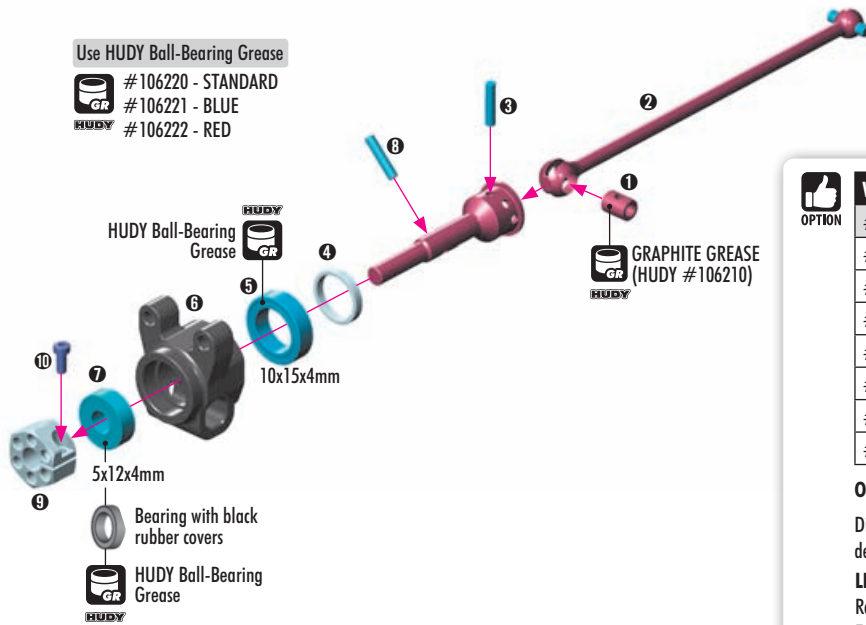


980210
P 2x10

2x L=R

Use HUDY Ball-Bearing Grease

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



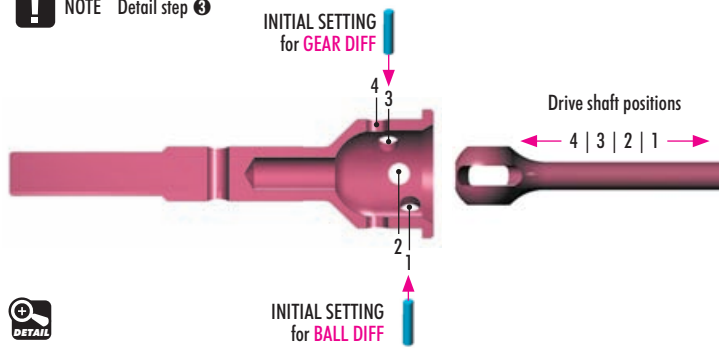
WHEEL HUBS 12MM		
#365360	+4.5mm - 6 slots	INCLUDED
#365359	+3.75mm - 5 slots	OPTION
#365358	+3.0mm - 4 slots	OPTION
#365357	+2.25mm - 3 slots	OPTION
#365356	+1.5mm - 2 slots	OPTION
#365355	+0.75mm - 1 slot	OPTION
#365353	0mm - 0 slots	OPTION
#365354	-0.75mm - Lightw.	OPTION

OPTIONAL HEX HUB EFFECTS

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

LESS OFFSET	MORE OFFSET
Rear - more traction	Rear - less traction
Front - more steering	Front - less steering

NOTE Detail step 3



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



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

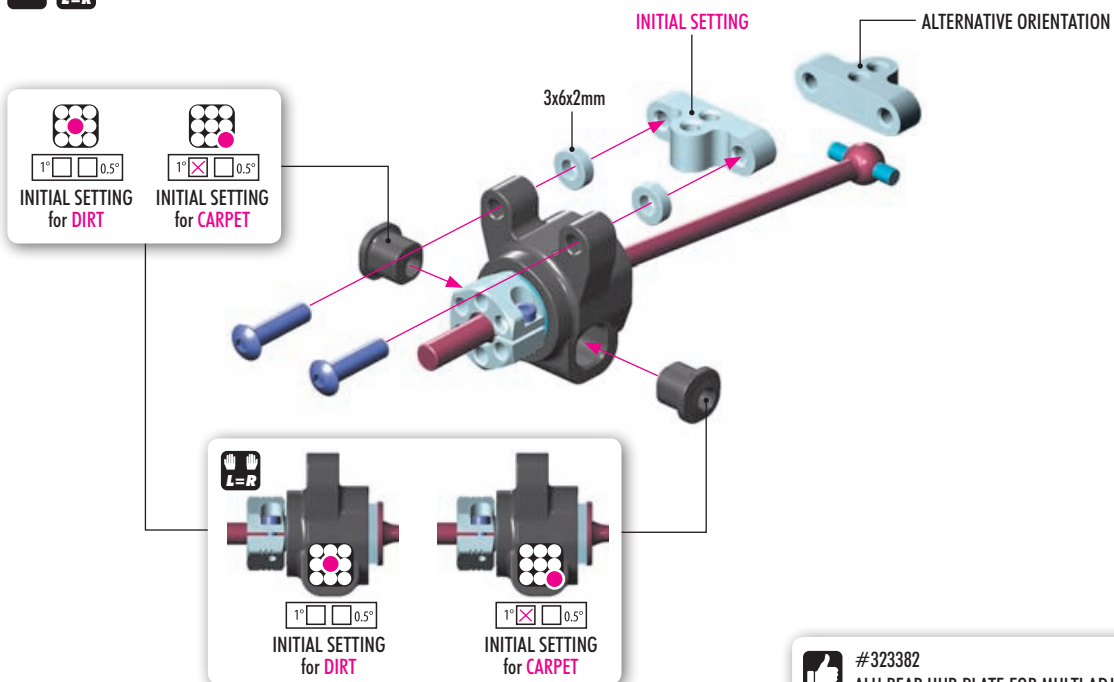


303123
SHIM 3x6x2



902312
SH M3x12

2x L=R



#323382
ALU REAR HUB PLATE FOR MULTI ADJ.
UPRIGHT - 1-HOLE - SWISS 7075 T6



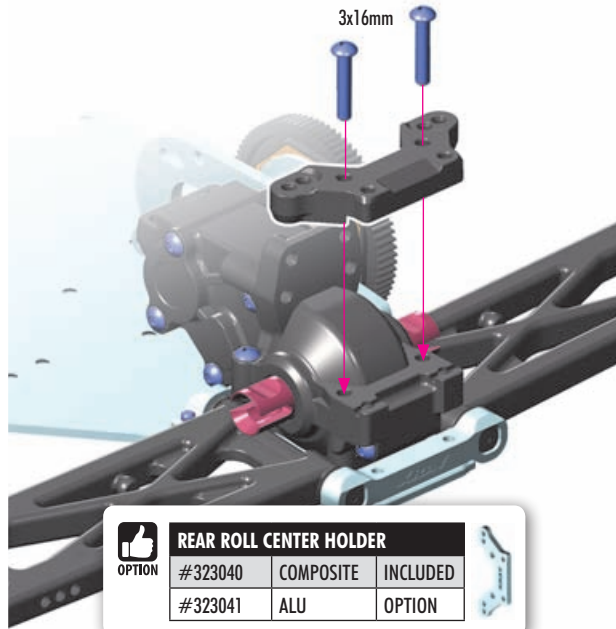
902316
SH M3x16



902312
SH M3x12

GEAR BOX FRONT MOTOR POSITION

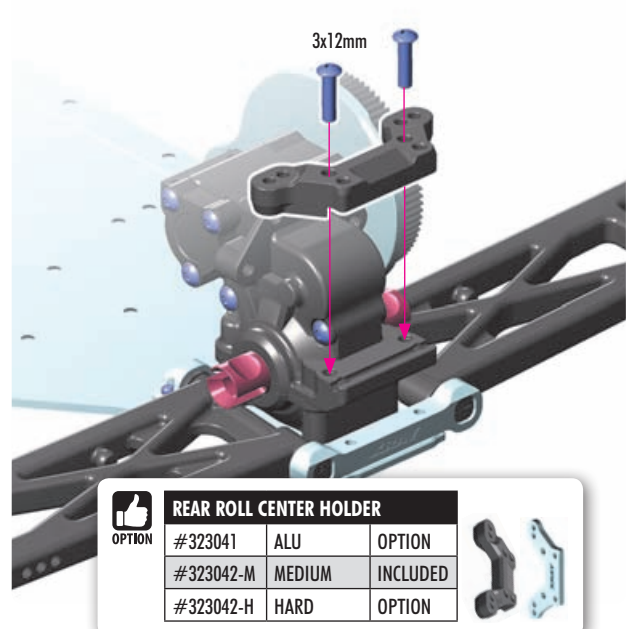
(For HIGH TRACTION track)



OPTION	REAR ROLL CENTER HOLDER	
#323040	COMPOSITE	INCLUDED
#323041	ALU	OPTION

GEAR BOX MIDDLE MOTOR POSITION

(For LOW TRACTION track)



OPTION	REAR ROLL CENTER HOLDER	
#323041	ALU	OPTION
#323042-M	MEDIUM	INCLUDED
#323042-H	HARD	OPTION



306219
SHIM 3x6x2



902254
SH M2.5x4



961025
S2.5



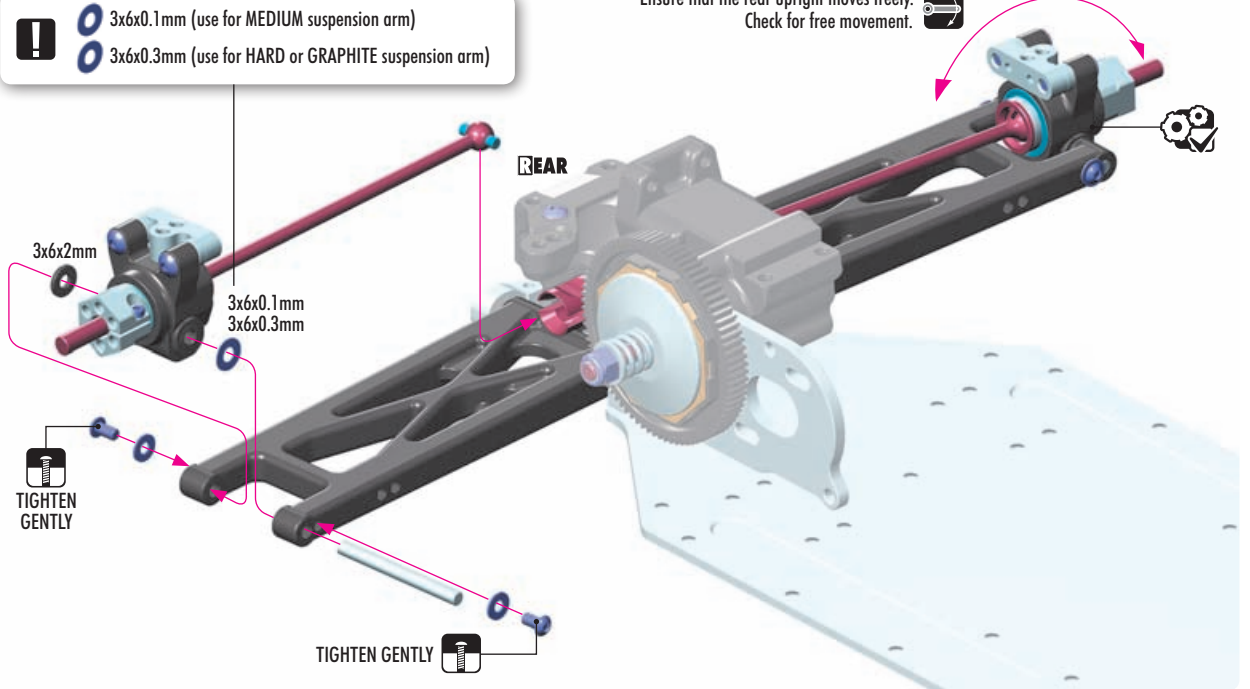
962030
S 3x6x0.3



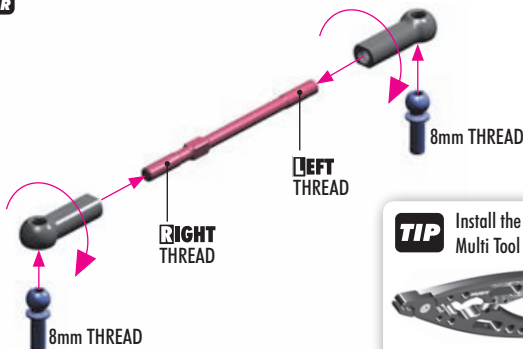
962031
S 3x6x0.1

- 3x6x0.1mm (use for MEDIUM suspension arm)
- 3x6x0.3mm (use for HARD or GRAPHITE suspension arm)

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



2x
L=R

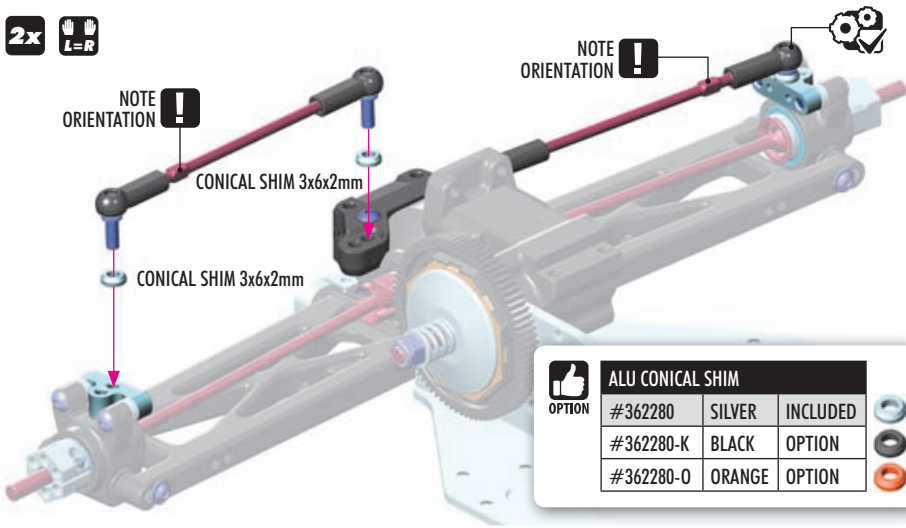


TIP Install the pivot balls with Professional Multi Tool (HUDY #183011)

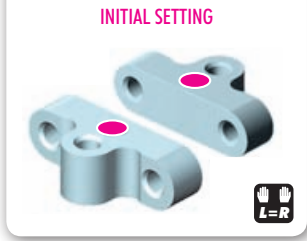
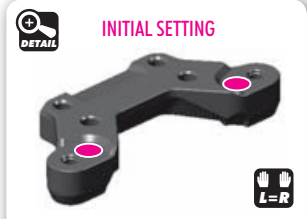


362280
CON. SHIM 3x6x2

2x



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



902310
SH M3x10

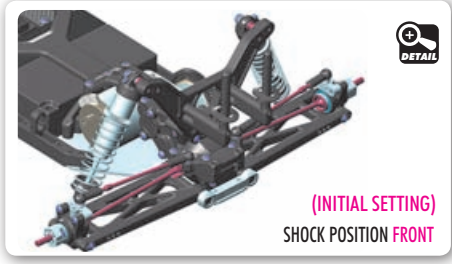
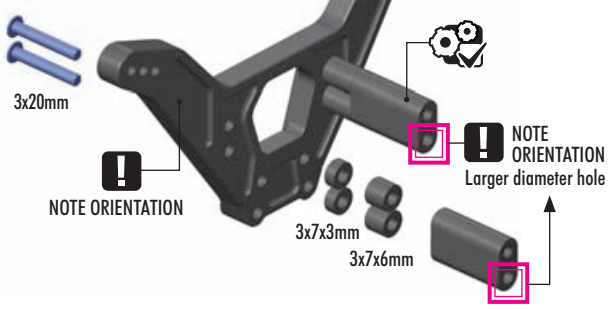
902320
SH M3x20

309319
SHIM 3x7x3

309319
SHIM 3x7x6

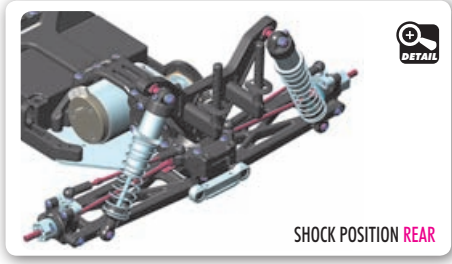
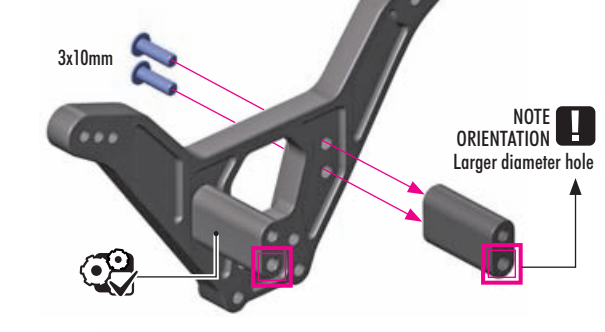
ALTERNATIVE 1 SHOCK POSITION FRONT

GEAR BOX - FRONT MOTOR POSITION
(INITIAL SETTING)



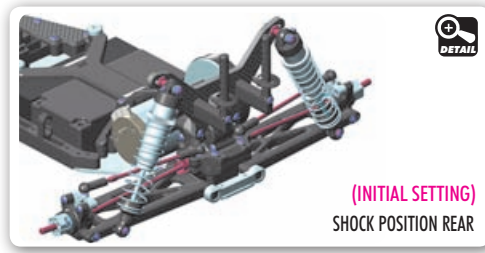
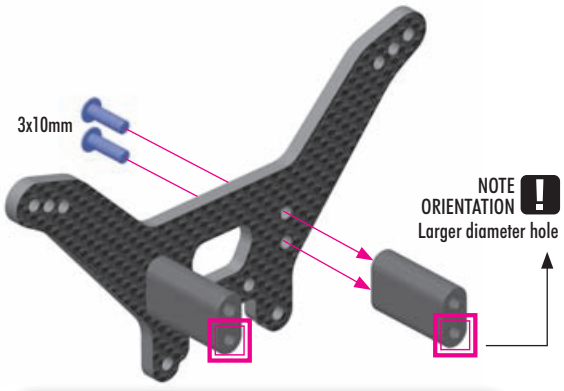
ALTERNATIVE 2 SHOCK POSITION REAR

GEAR BOX - FRONT MOTOR POSITION



SHOCK POSITION REAR

GEAR BOX - MIDDLE MOTOR POSITION
(INITIAL SETTING)



902310
SH M3x10

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

ALTERNATIVE 1 SHOCK POSITION FRONT

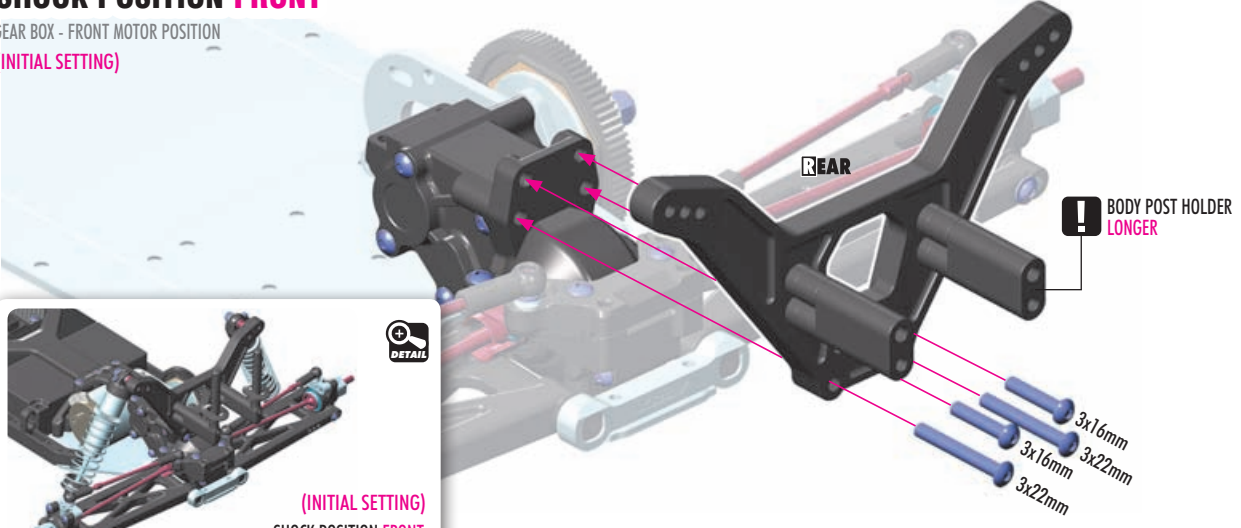
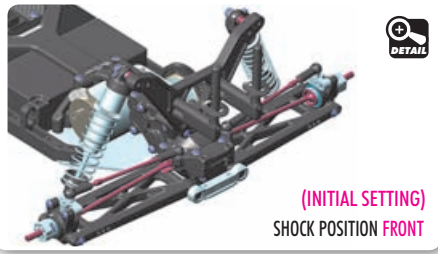
GEAR BOX - FRONT MOTOR POSITION
(INITIAL SETTING)



902316
SH M3x16



902322
SH M3x22



ALTERNATIVE 2 SHOCK POSITION REAR

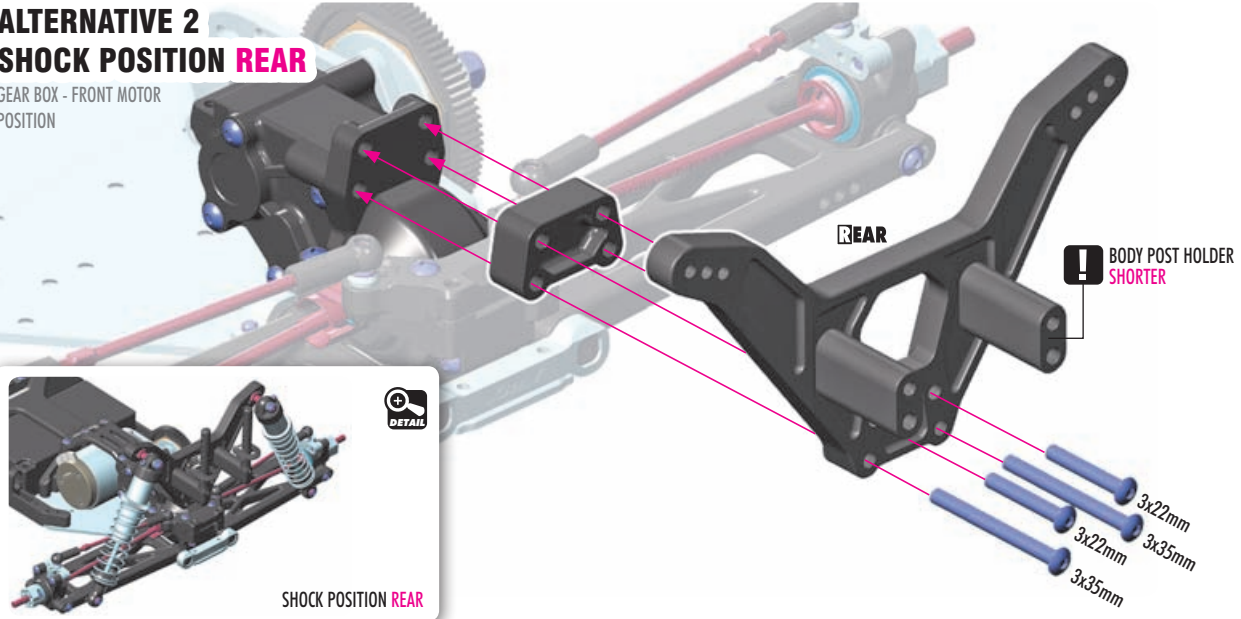
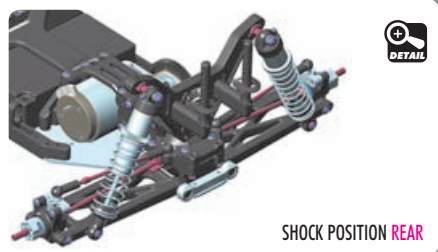
GEAR BOX - FRONT MOTOR POSITION



902322
SH M3x22



902335
SH M3x35

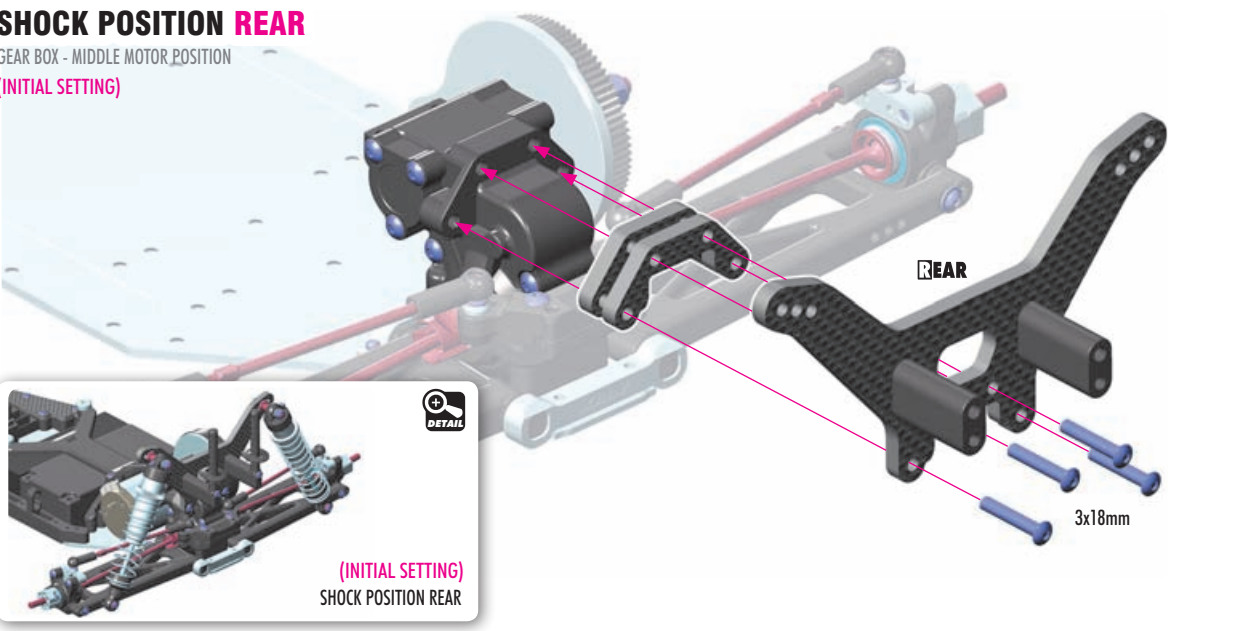
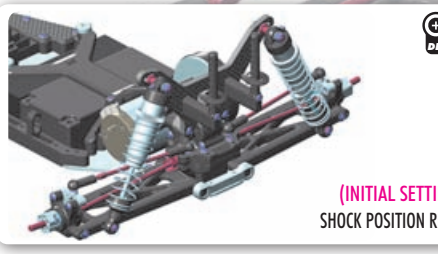


SHOCK POSITION REAR

GEAR BOX - MIDDLE MOTOR POSITION
(INITIAL SETTING)



902318
SH M3x18





STEERING PLATE		
#322570	ALU	OPTION
#322571	COMPOSITE	INCLUDED



STEERING ARMS		
#322510	ALU	OPTION
#322511	COMPOSITE	INCLUDED



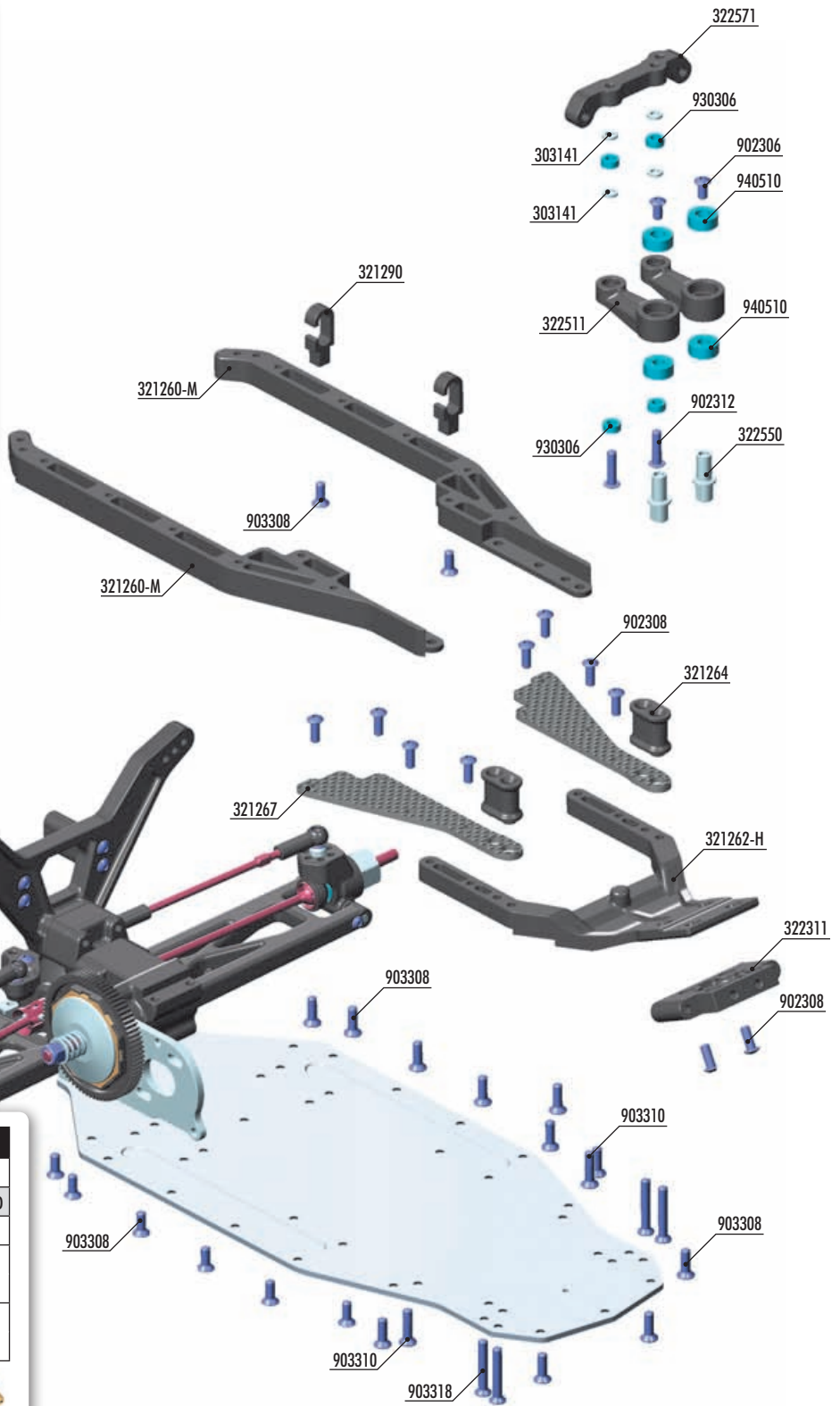
FRONT LOWER CHASSIS BRACE		
#321262-M	MEDIUM	OPTION
#321262-H	HARD	INCLUDED



SIDE CHASSIS GUARDS		
#321260-M	MEDIUM	INCLUDED
#321260-H	HARD	OPTION



GRAPHITE SIDE GUARD BRACE		
#321266	SOFT	OPTION
#321263	MEDIUM	OPTION
#321267	STIFF	INCLUDED



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



BAG

04

- 30 3141 ALU SHIM 3x5x1.0MM (10)
- 32 1260-M COMPOSITE CHASSIS SIDE GUARDS L+R - MEDIUM
- 32 1262-H COMPOSITE CHASSIS FRONT GUARD - HARD
- 32 1264 COMPOSITE FRONT CHASSIS SIDE BRACE - SHORT (2)
- 32 1267 GRAPHITE CHASSIS SIDE GUARD BRACE - STIFF (2)
- 32 1290 COMPOSITE WIRE HOLDER (2)
- 32 2311 COMPOSITE FRONT LOWER SUSPENSION HOLDER
- 32 2570 ALU STEERING PLATE - SWISS 7075 T6 (OPTION)
- 32 2571 COMPOSITE STEERING PLATE
- 32 2510 ALU STEERING ARM (2) (OPTION)
- 32 2511 COMPOSITE STEERING ARM (2)
- 32 2550 ALU SERVO SAVER PIVOT SHAFT (2)

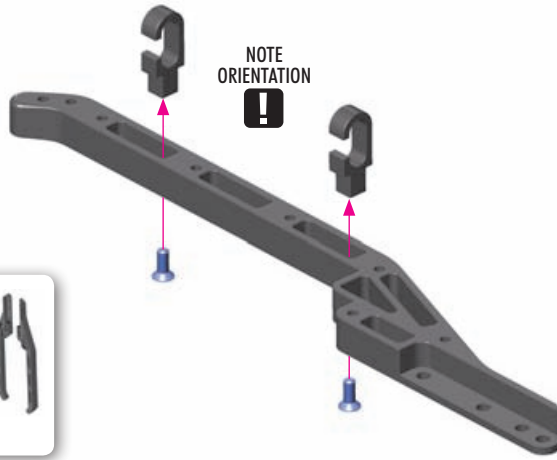
- 90 2306 HEX SCREW SH M3x6 (10)
- 90 2308 HEX SCREW SH M3x8 (10)
- 90 2312 HEX SCREW SH M3x12 (10)
- 90 3308 HEX SCREW SFH M3x8 (10)
- 90 3310 HEX SCREW SFH M3x10 (10)
- 90 3318 HEX SCREW SFH M3x18 (10)
- 93 0306 BALL-BEARING 3x6x2.5 STEEL SEALED - OIL (2)
- 94 0510 BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2)

4. FRONT ASSEMBLY

CARPET DIRT



903308
SFH M3x8



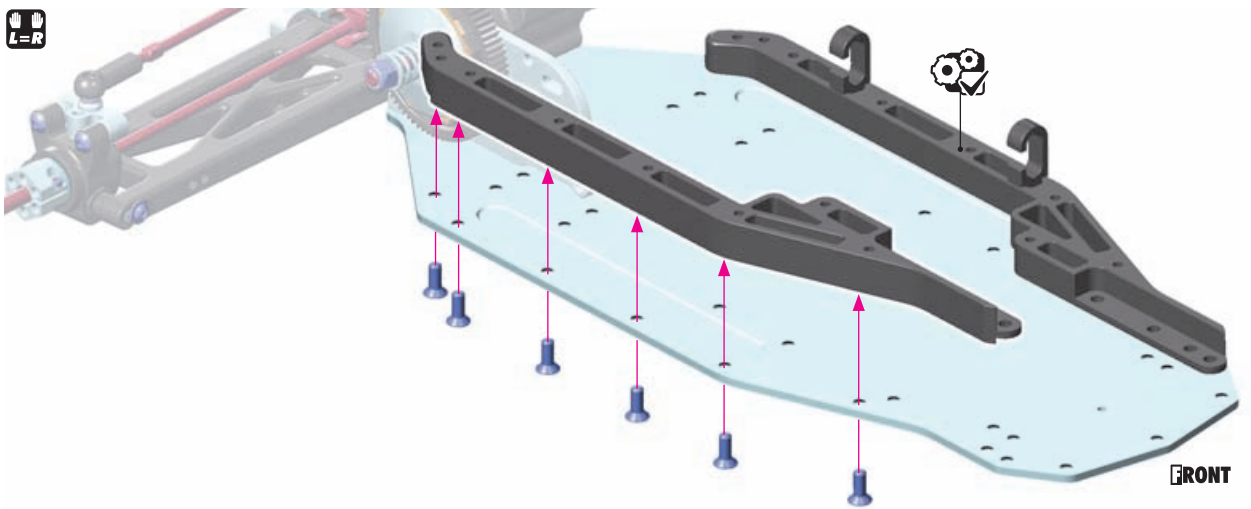
SIDE CHASSIS GUARDS

OPTION	Part #	Material	Status
	#321260-M	MEDIUM	INCLUDED
	#321260-H	HARD	OPTION

MEDIUM - For low & medium traction
HARD - For high traction



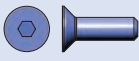
903308
SFH M3x8



902308
SFH M3x8



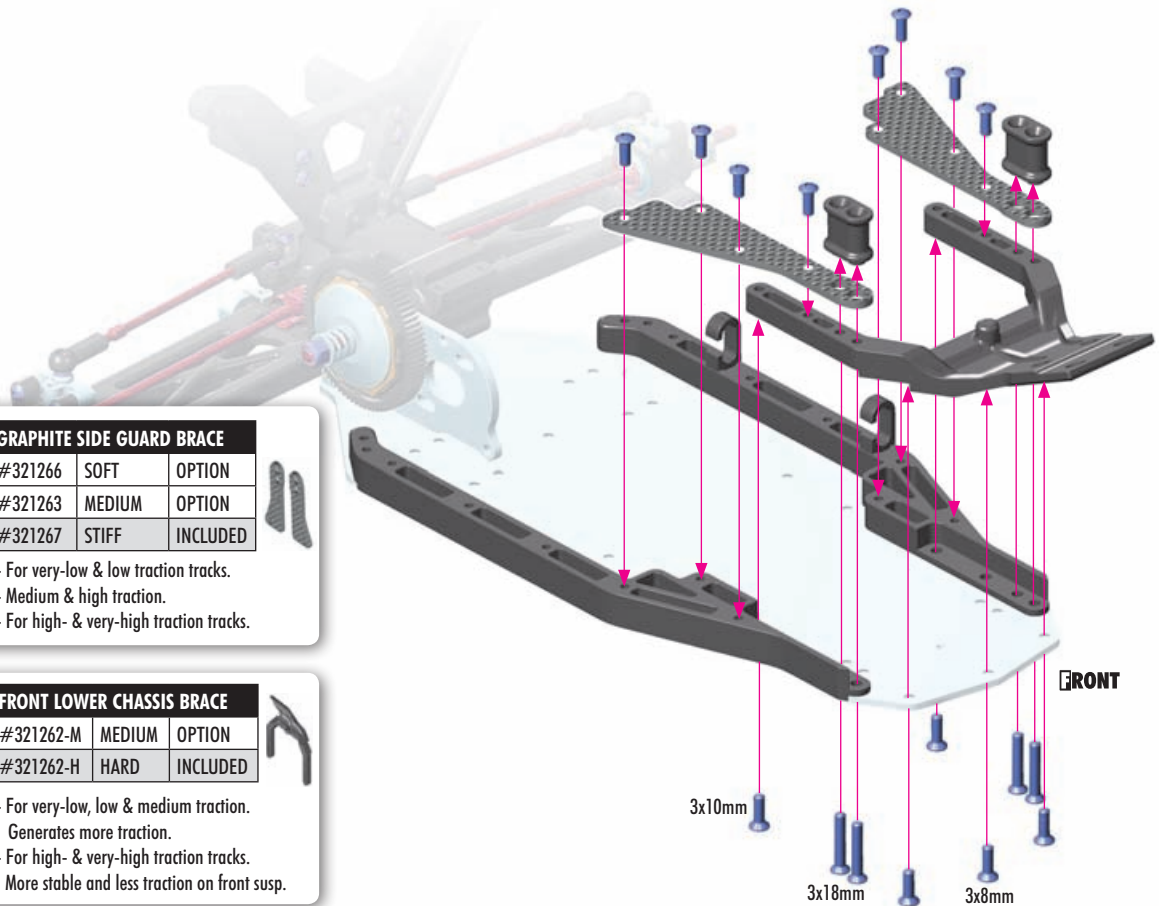
903308
SFH M3x8



903310
SFH M3x10



903318
SFH M3x18



GRAPHITE SIDE GUARD BRACE

OPTION	Part #	Material	Status
	#321266	SOFT	OPTION
	#321263	MEDIUM	OPTION
	#321267	STIFF	INCLUDED

SOFT - For very-low & low traction tracks.
MEDIUM - Medium & high traction.
STIFF - For high- & very-high traction tracks.



FRONT LOWER CHASSIS BRACE

OPTION	Part #	Material	Status
	#321262-M	MEDIUM	OPTION
	#321262-H	HARD	INCLUDED

MEDIUM - For very-low, low & medium traction.
Generates more traction.
HARD - For high- & very-high traction tracks.
More stable and less traction on front susp.

4. FRONT ASSEMBLY

CARPET DIRT



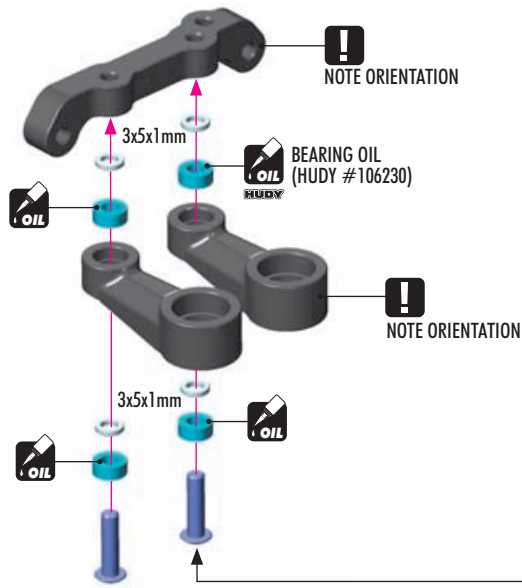
303141
SHIM 3x5x1



902312
SH M3x12



930306
BB 3x6x2.5



STEERING PLATE

OPTION	Part #	Material	Status
	#322570	ALU	OPTION
	#322571	COMPOSITE	INCLUDED

COMPOSITE - Easy to drive, more forgiving, less steering.
ALU - More aggressive, more steering, more precise steering.



STEERING ARMS

OPTION	Part #	Material	Status
	#322510	ALU	OPTION
	#322511	COMPOSITE	INCLUDED

COMPOSITE - Easy to drive and more forgiving.
ALU - More aggressive, more precise steering.

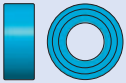


Tighten the screws gently but fully, and then loosen 1/3 turn so the composite dual servo saver moves freely.

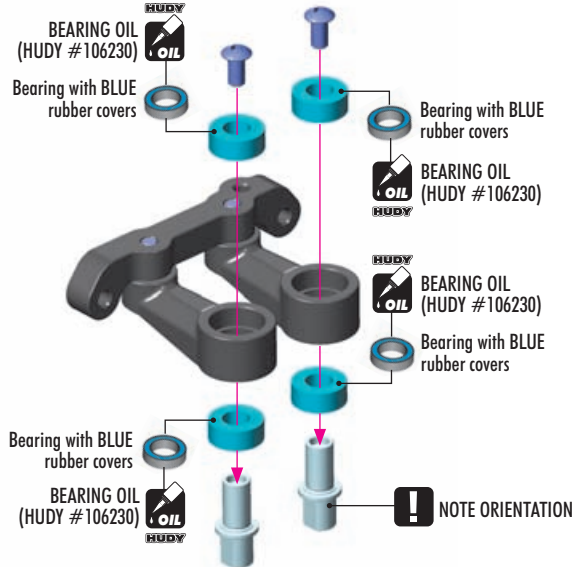
- 1 tighten fully
- 2 loosen 1/3 ccw
- 3 check moves freely (120° CCW)



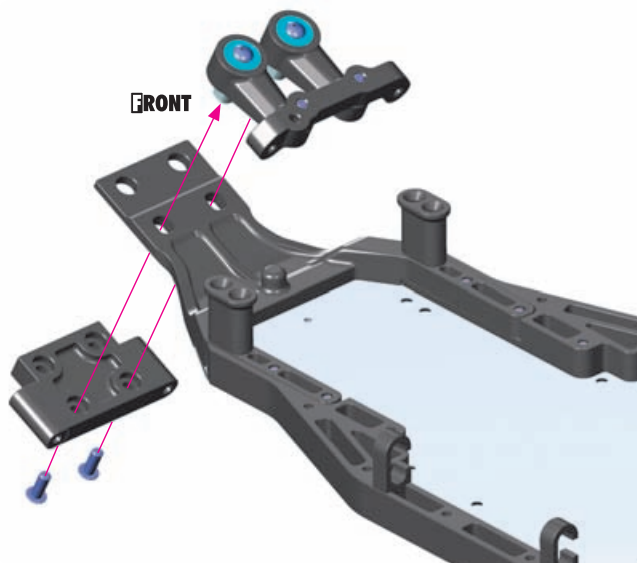
902306
SH M3x6



940510
BB 5x10x4



902308
SH M3x8



FRONT LOWER ARM MOUNT

OPTION	Part #	Material	Status
	#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.

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



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



SUSPENSION ARM

#322111-M	MEDIUM	INCL. in DIRT
#322111-H	HARD	INCL. in CARPET
#322111-G	GRAPHITE	OPTION



FRONT ROLL CENTER HOLDER

#322040-M	MEDIUM	OPTION
#322040-H	HARD	INCLUDED
#322041	ALU	OPTION



STEERING BLOCK EXTENSION

#322290	2-SLOTS	INCLUDED
#322291	1-SLOT	OPTION
#322292	0-SLOTS	OPTION



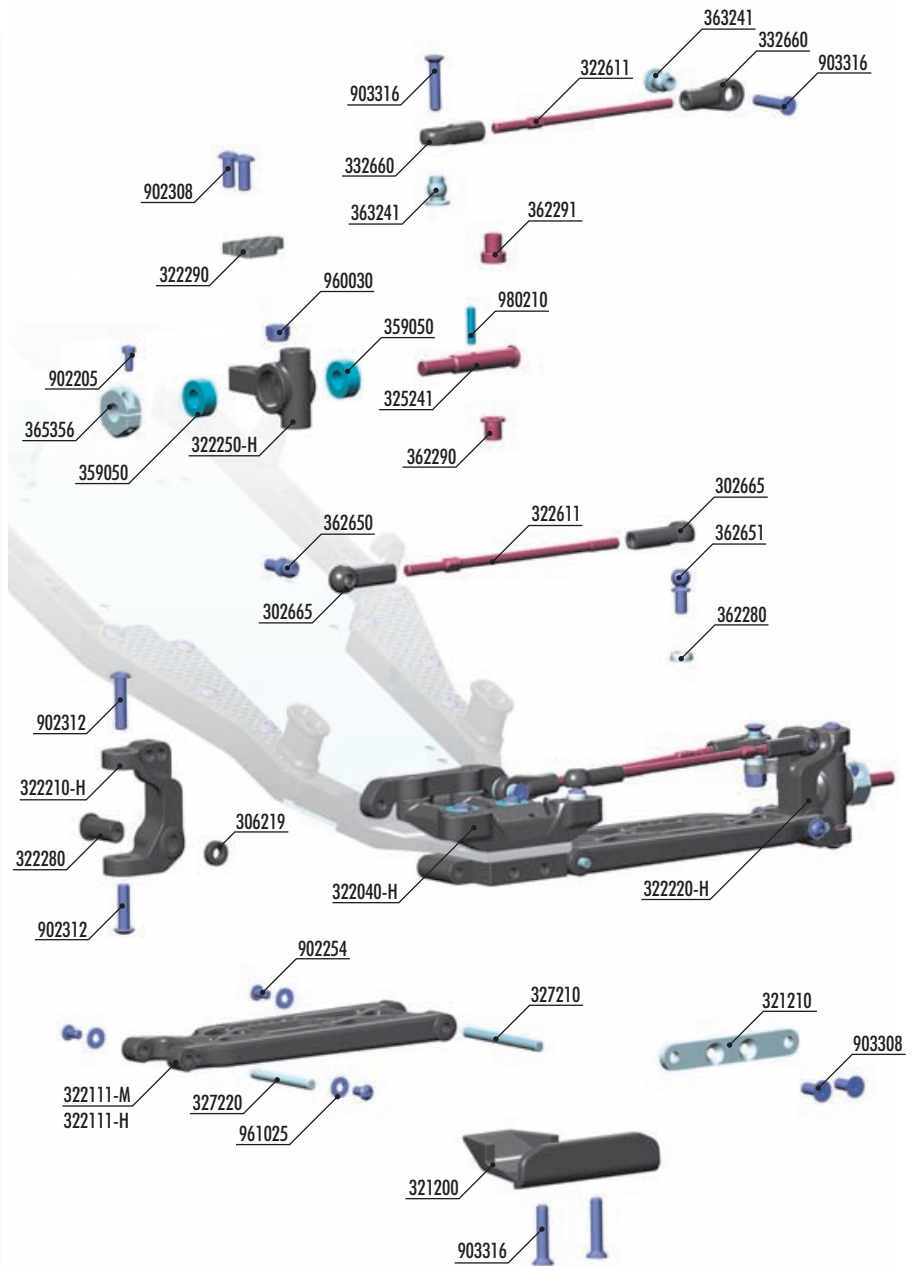
C-HUB

#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	INCLUDED
#365355	+ 0.75mm	1 slot	OPTION
#365353	0mm	0 slots	OPTION
#365354	-0.75mm	Lightw.	OPTION



BAG

05

- 30 2665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
- 30 6219 COMPOSITE SET OF SERVO SHIMS (4)
- 32 1200 COMPOSITE FRONT BUMPER
- 32 1210 ALU SUSPENSION HOLDER BRACE - SWISS 7075 T6 (3MM)
- 32 2040-H COMPOSITE FRONT ROLL CENTER HOLDER - HARD
- 32 2111-M COMPOSITE SUSPENSION ARM FRONT LOWER - MEDIUM
- 32 2111-H COMPOSITE SUSPENSION ARM FRONT LOWER - HARD
- 32 2210-H COMPOSITE C-HUB 0° DEG. RIGHT - HARD
- 32 2220-H COMPOSITE C-HUB 0° DEG. LEFT - HARD
- 32 2250-H COMPOSITE STEERING BLOCK - HARD
- 32 2280 COMPOSITE CASTER ECCENTRIC BUSHING (2+2+2)
- 32 2290 GRAPHITE EXTENSION FOR STEERING BLOCK - 2 SLOTS (2)
- 32 2611 ADJUSTABLE TURNBUCKLE 70MM M3 L/R - HUDY SPRING STEEL™ (2)
- 32 5241 XT2 FRONT DRIVE AXLE - HUDY SPRING STEEL™
- 32 7210 FRONT SUSPENSION PIVOT PIN (2)
- 32 7220 FRONT ARM PIVOT PIN (2)
- 33 2660 COMPOSITE STEERING & SERVO BALL JOINT 5.8 MM (4+2)
- 36 2280 ALU CONICAL SHIM 3x6x2.0MM (10)

- 36 2290 STEEL STEERING BUSHING - SHORT (2)
- 36 2291 STEEL STEERING BUSHING - LONG (2)
- 36 2650 BALL END 4.9MM WITH THREAD 6MM (2)
- 36 2651 BALL END 4.9MM WITH THREAD 8MM (2)
- 36 3241 BALL UNIVERSAL 5.75MM WITH BACKSTOP (2)
- 36 5356 ALU WHEEL HUB 12MM - OFFSET "+1.50MM" (2)
- 35 9050 BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)
- 90 2205 HEX SCREW SH M2x5 (10)
- 90 2254 HEX SCREW SH M2.5x4 (10)
- 90 2308 HEX SCREW SH M3x8 (10)
- 90 2312 HEX SCREW SH M3x12 (10)
- 90 3308 HEX SCREW SFH M3x8 (10)
- 90 3316 HEX SCREW SFH M3x16 (10)
- 96 1025 WASHER S 2.5 (10)
- 96 0030 NUT M3 (10)
- 98 0210 PIN 2x9.8 (10)

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

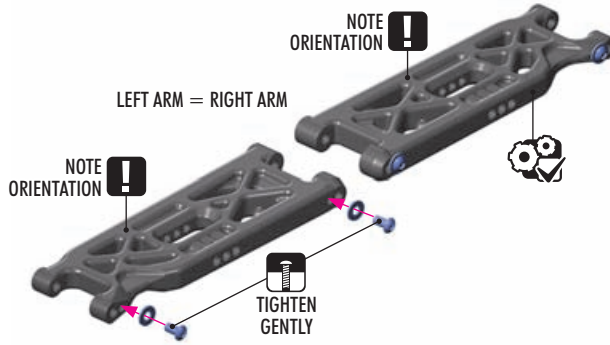


902254
SH M2.5x4



961025
S 2.5

2x



SUSPENSION ARM

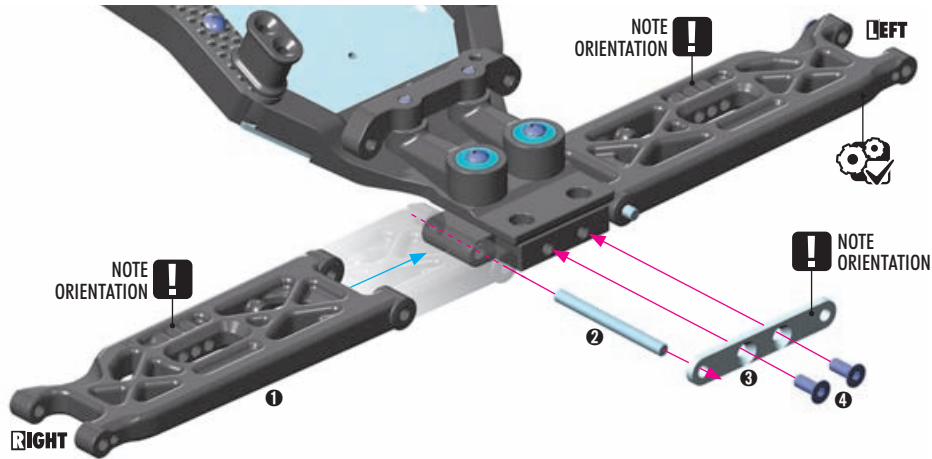
OPTION	Part #	Material	Included in
	#322111-M	MEDIUM	INCL. in DIRT
	#322111-H	HARD	INCL. in CARPET
	#322111-G	GRAPHITE	OPTION



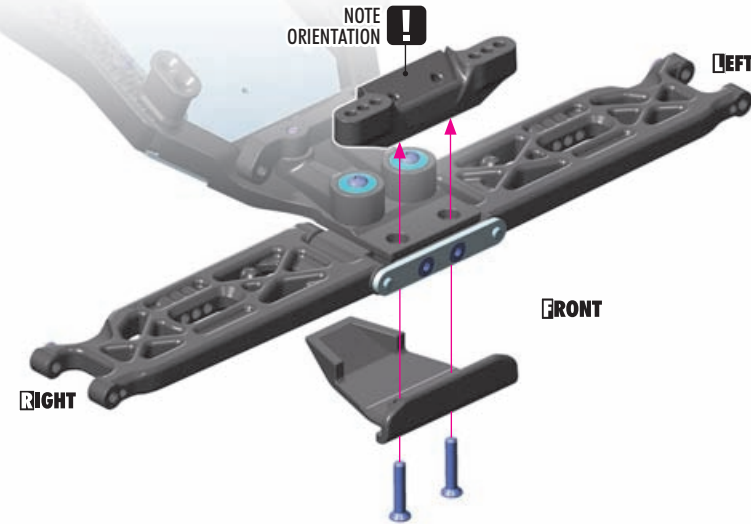
MEDIUM - For very-low & low traction
HARD - For medium & high traction
GRAPHITE - For high & very-high traction



903308
SFH M3x8



903316
SFH M3x16



FRONT ROLL CENTER HOLDER

OPTION	Part #	Material	Included
	#322040-M	MEDIUM	OPTION
	#322040-H	HARD	INCLUDED
	#322041	ALU	OPTION



MEDIUM - Generates more traction, absorbs bumps better.

HARD - More precise, absorbs less bumps than medium but still more than alu, more reactive than medium composite but less than alu.

ALU - More precise and increased strength.

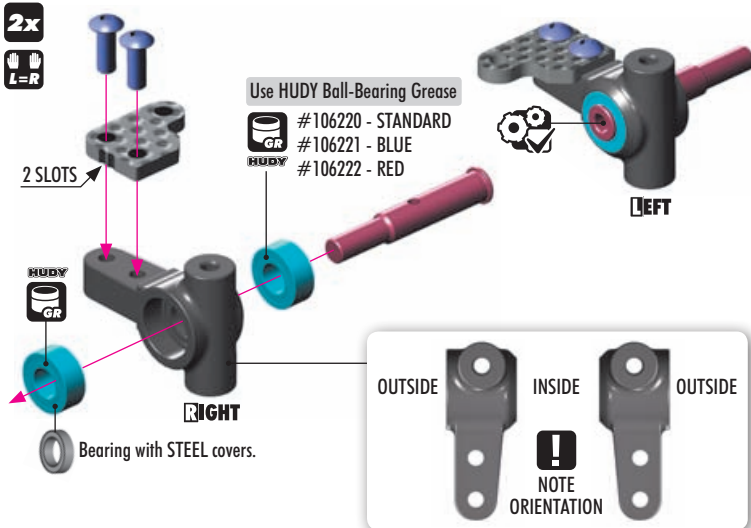


902308
SH M3x8



940510
BB 5x10x4

2x



STEERING BLOCK EXTENSION

OPTION	Part #	Configuration	Included
	#322290	2-SLOTS	INCLUDED
	#322291	1-SLOT	OPTION
	#322292	0-SLOTS	OPTION



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

OPTION	Part #	Material	Included
	#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**

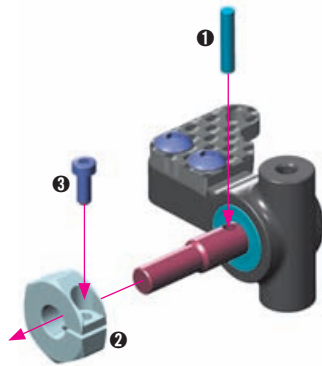


902205
SH M2x5

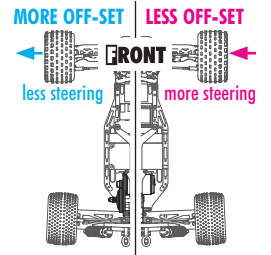


981210
P 2x10

2x L=R



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



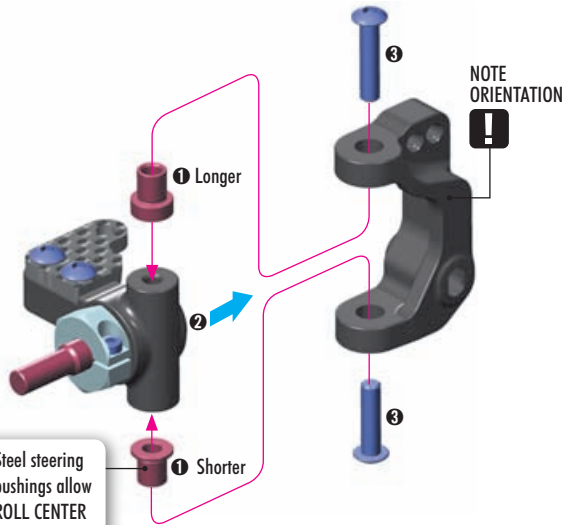
OPTIONAL HEX HUB EFFECTS

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

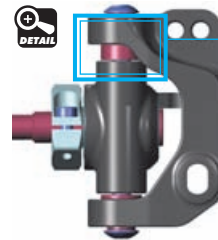


902312
SH M3x12

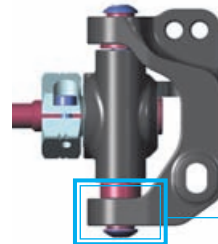
2x L=R



Steel steering bushings allow ROLL CENTER adjustment.



LOWER ROLL CENTER (INITIAL SETTING)
TOP = LONGER bushing
BOTTOM = SHORTER bushing
Recommended for rough tracks to improve stability.



HIGHER ROLL CENTER
TOP = SHORTER bushing
BOTTOM = LONGER bushing
Recommended for smooth tracks to gain more steering.



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



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 stoping in corners.

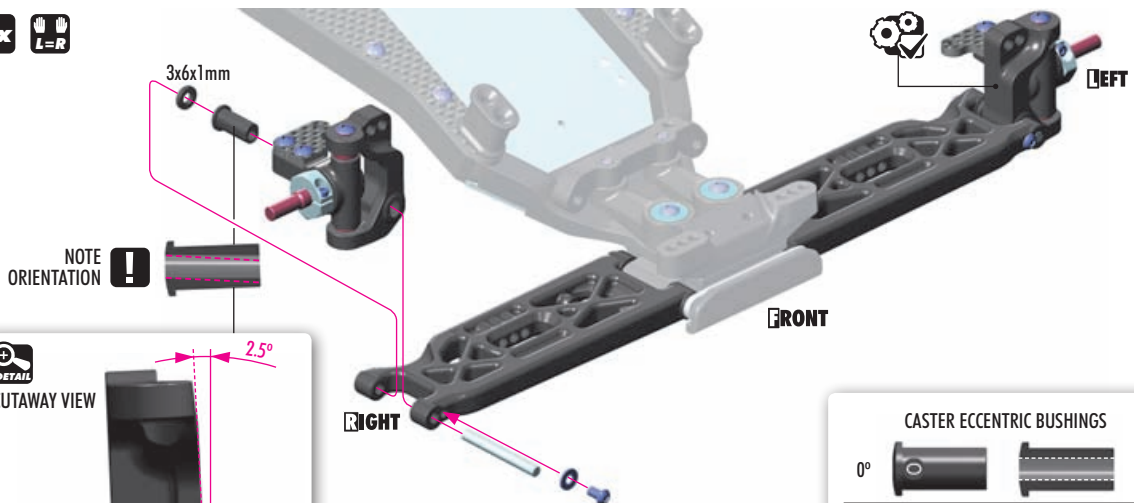


306219
SHIM 3x6x1

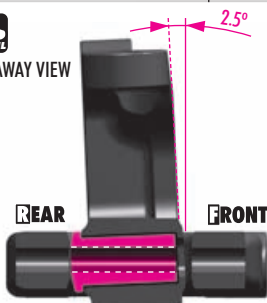


902254
SH M2.5x4

2x L=R

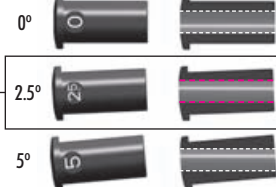


CUTAWAY VIEW



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

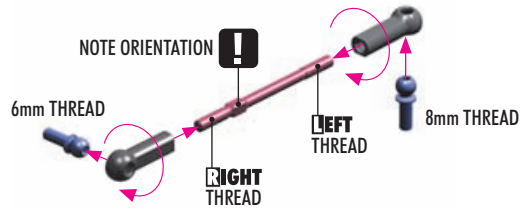
CASTER ECCENTRIC BUSHINGS



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

ROLL CENTER LINKS

2x 



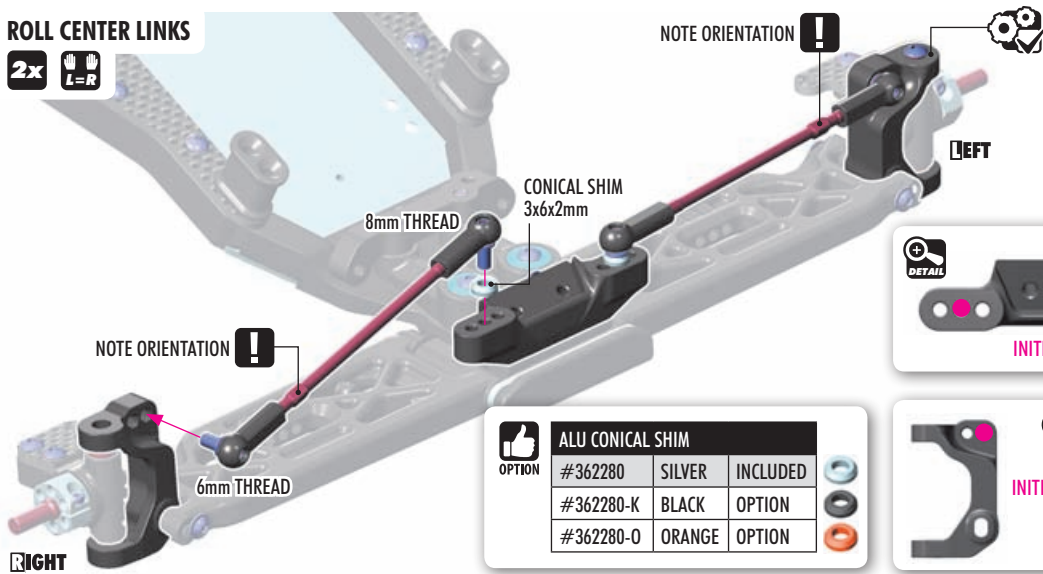
TIP Install the pivot balls with Professional Multi Tool (HUDY #183011)



362280
CON. SHIM 3x6x2

ROLL CENTER LINKS

2x 

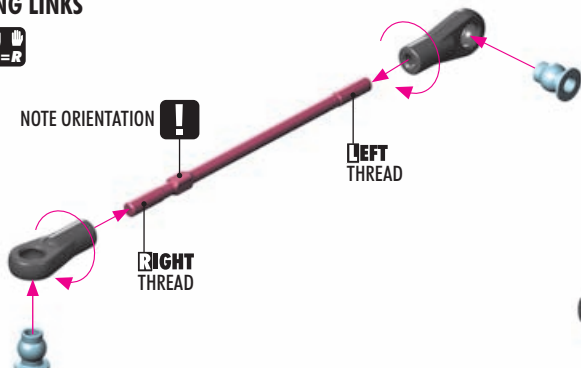


OPTION	ALU CONICAL SHIM	
#362280	SILVER	INCLUDED
#362280-K	BLACK	OPTION
#362280-O	ORANGE	OPTION

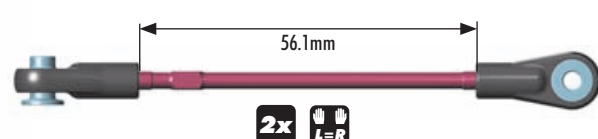


STEERING LINKS

2x 



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



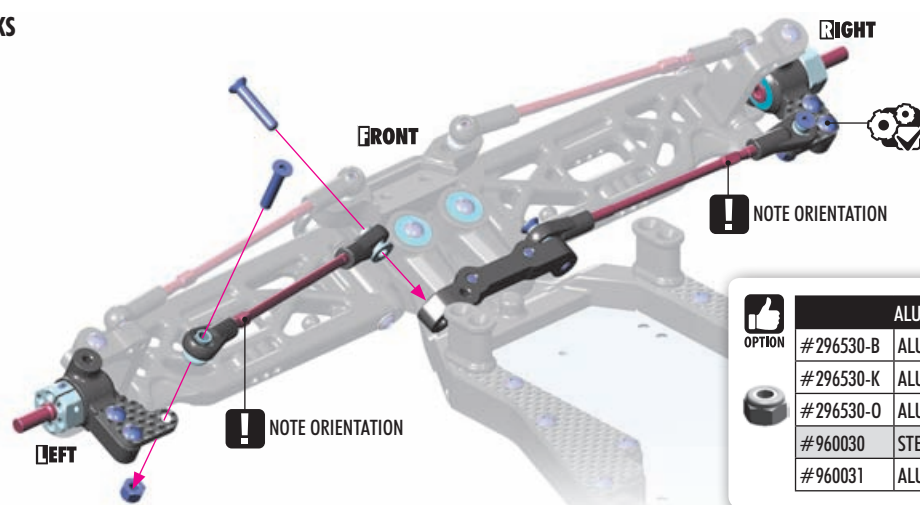
903316
SFH M3x16



960030
NUT M3

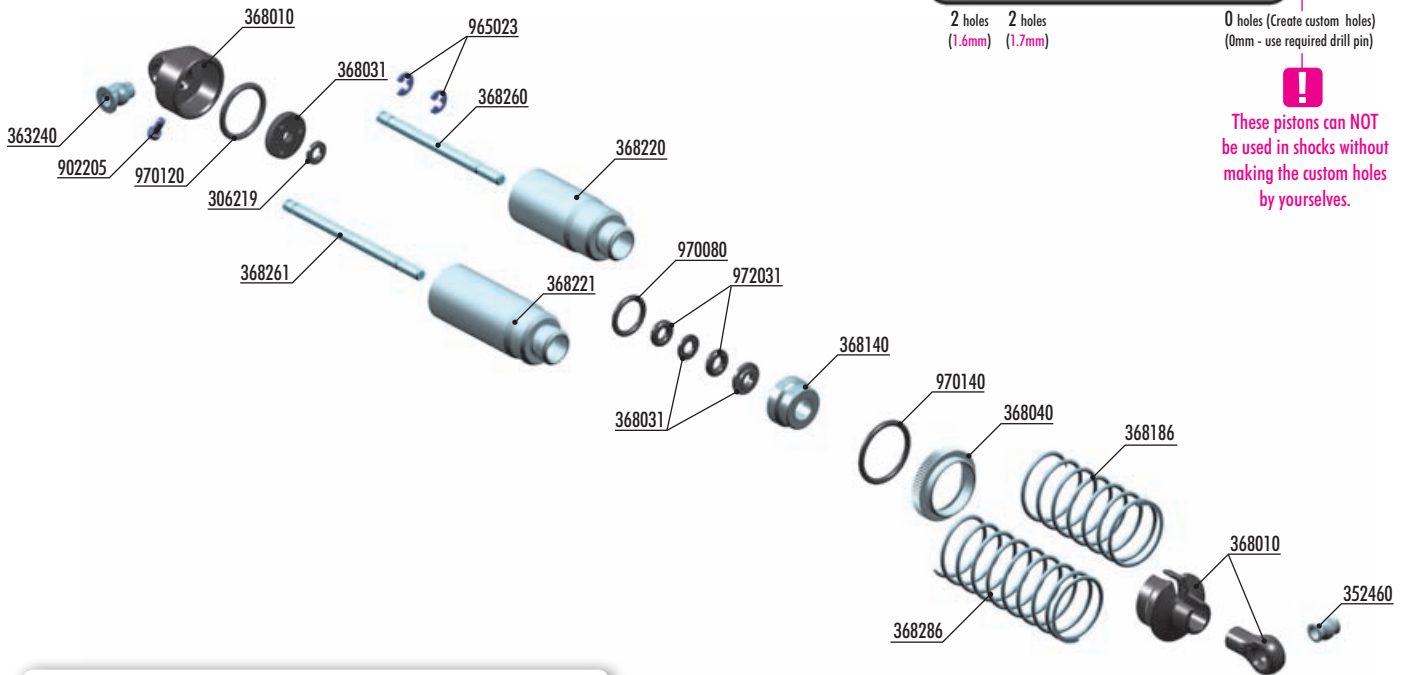
STEERING LINKS

2x 



OPTION	ALU NUTS M3	
#296530-B	ALU BLUE	OPTION
#296530-K	ALU BLACK	OPTION
#296530-O	ALU ORANGE	OPTION
#960030	STEEL SILVER	INCLUDED
#960031	ALU SILVER	OPTION

6. SHOCK ABSORBERS **CARPET** **DIRT**



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



FRONT SPRINGS

#368174	PROGRESS.	2 STRIPES	OPTION
#368175	PROGRESS. 40mm	3 DOTS	OPTION
#368182	LINEAR 45mm	1 STRIPE & 3 DOTS	OPTION
#368183	LINEAR	1 DOT	OPTION
#368184	LINEAR	2 DOTS	OPTION
#368185	LINEAR	3 DOTS	OPTION
#368186	LINEAR	4 DOTS	INCLUDED



REAR SPRINGS

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



#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)



BAG

06

- 30 6219 COMPOSITE SET OF SERVO SHIMS (4)
- 35 2460 PIVOT BALL 5.8 - V3 (10)
- 36 3240 BALL UNIVERSAL 5.8MM WITH BACKSTOP (2)
- 36 8010 COMPOSITE SHOCK PARTS
- 36 8031 SHOCK PISTONS - COMPLETE SET - DERLIN
- 36 8040 ALU SHOCK ADJUSTABLE NUT (2)
- 36 8140 ALU LOWER SHOCK BODY CAP (2)
- 36 8186 FRONT SPRING-SET - 4 DOTS (2)
- 36 8200 REAR SHOCK ABSORBERS COMPLETE SET (2)
- 36 8220 ALU SHOCK BODY - HARD COATED (2)
- 36 8221 XT2 ALU REAR SHOCK BODY - HARD COATED (2)
- 36 8260 HARDENED SHOCK SHAFT (2)
- 36 8261 XT2 REAR HARDENED SHOCK SHAFT (2)
- 36 8286 REAR SPRING-SET LINEAR - 3 DOTS (2)

- 90 2205 HEX SCREW SH M2x5 (10)
- 96 5023 E-CLIP 2.3 (10)
- 97 0080 O-RING 8x1 (10)
- 97 0120 O-RING 12 x 1.0 (10)
- 97 0140 O-RING 14 x 1.5 (10)
- 97 2031 SILICONE O-RING 3x2.1 (10)

6. SHOCK ABSORBERS

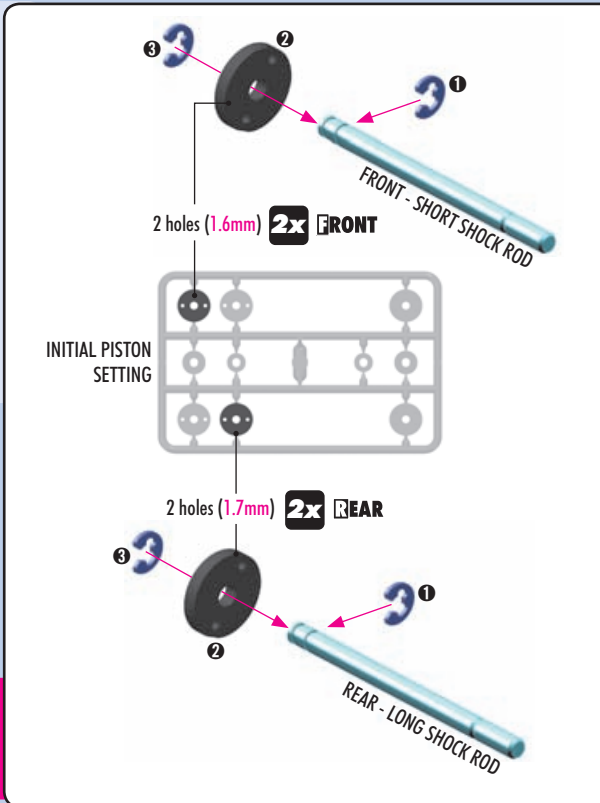
CARPET DIRT

965023
C 2.3

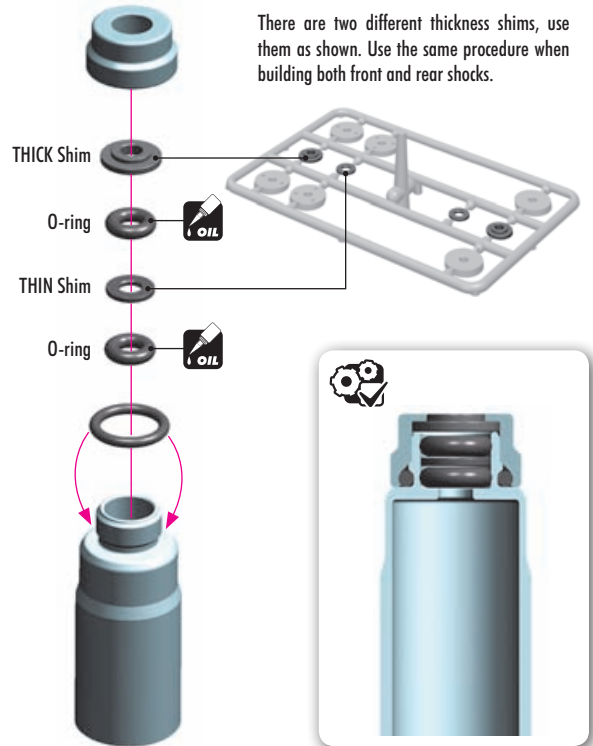
970080
O 8x1

972031
O 3x2.1

SET-UP BOOK
SHOCK DAMPING
SHOCK PISTONS

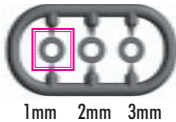


4x



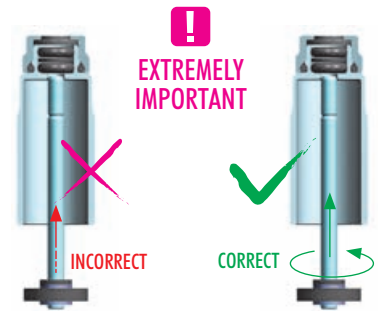
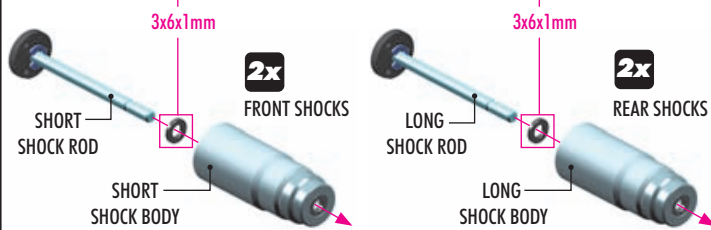
#306219
OPTION DOWNSTOP SHIMS

THICKER shim used, GREATER downstop is achieved.



IMPORTANT

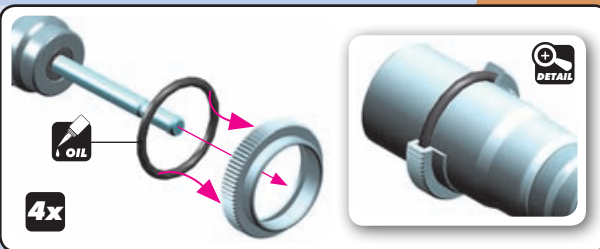
Always use same shim thickness on right and left side to achieve same downstop.



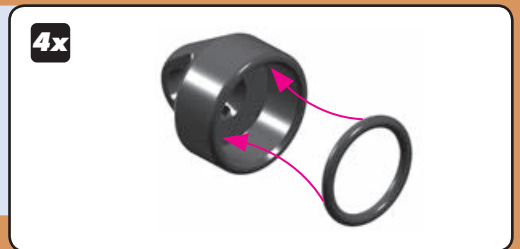
Do not push the shock rod straight through the lower shock body assembly; O-ring damage may result.

Twist the shock rod through the lower shock body assembly.

970140
O 14x1.5

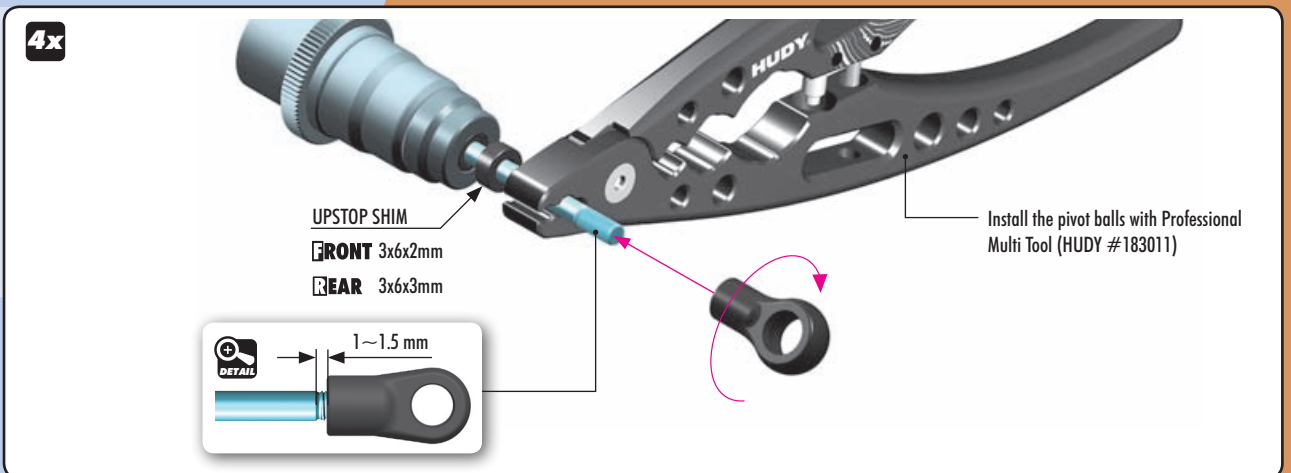


970120
O 12x1



306219
SHIM 3x6x2

306219
SHIM 3x6x3



6. SHOCK ABSORBERS **CARPET DIRT**



902205
SH M2x5

DEFAULT SHOCK REBOUND SETTING 0% REBOUND

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

- 2x** FRONT (SHORT)
Oil 650cSt
- 2x** REAR (LONG)
Oil 500cSt



1 Extend the shock shaft completely. Fill the shock body with the shock oil. For the FRONT shocks (short) use 650cSt oil. For the REAR shocks (long) use 500cSt oil.



2 Move the shock shaft up and down a few times to release the air bubbles trapped beneath the piston.
3~5x
UP & DOWN



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



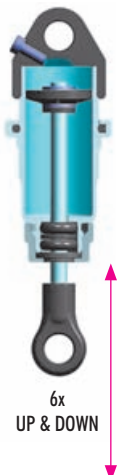
4 Gently place the shock cap onto the filled shock body and start to tighten the cup. Tighten the cap fully.



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



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



7 6x push the shaft up and down.



8 Untighten the screw.



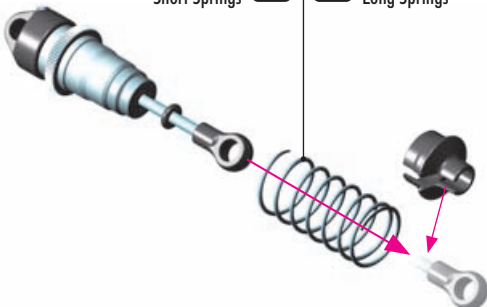
9 Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



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

SET-UP BOOK
SHOCK OIL

SHORT FRONT SHOCKS **2x** Short Springs **2x** LONG REAR SHOCKS Long Springs

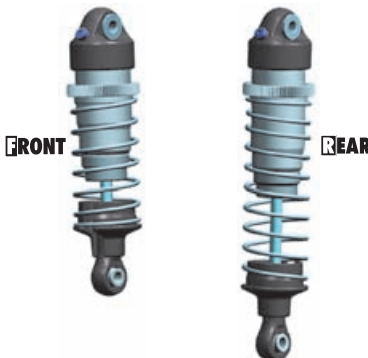


#368021
ALU SHOCK SPRING RETAINING COLLAR (4)

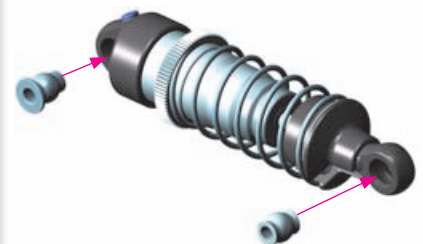


IMPORTANT

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)



BAG
07

GEAR BOX FRONT MOTOR POSITION

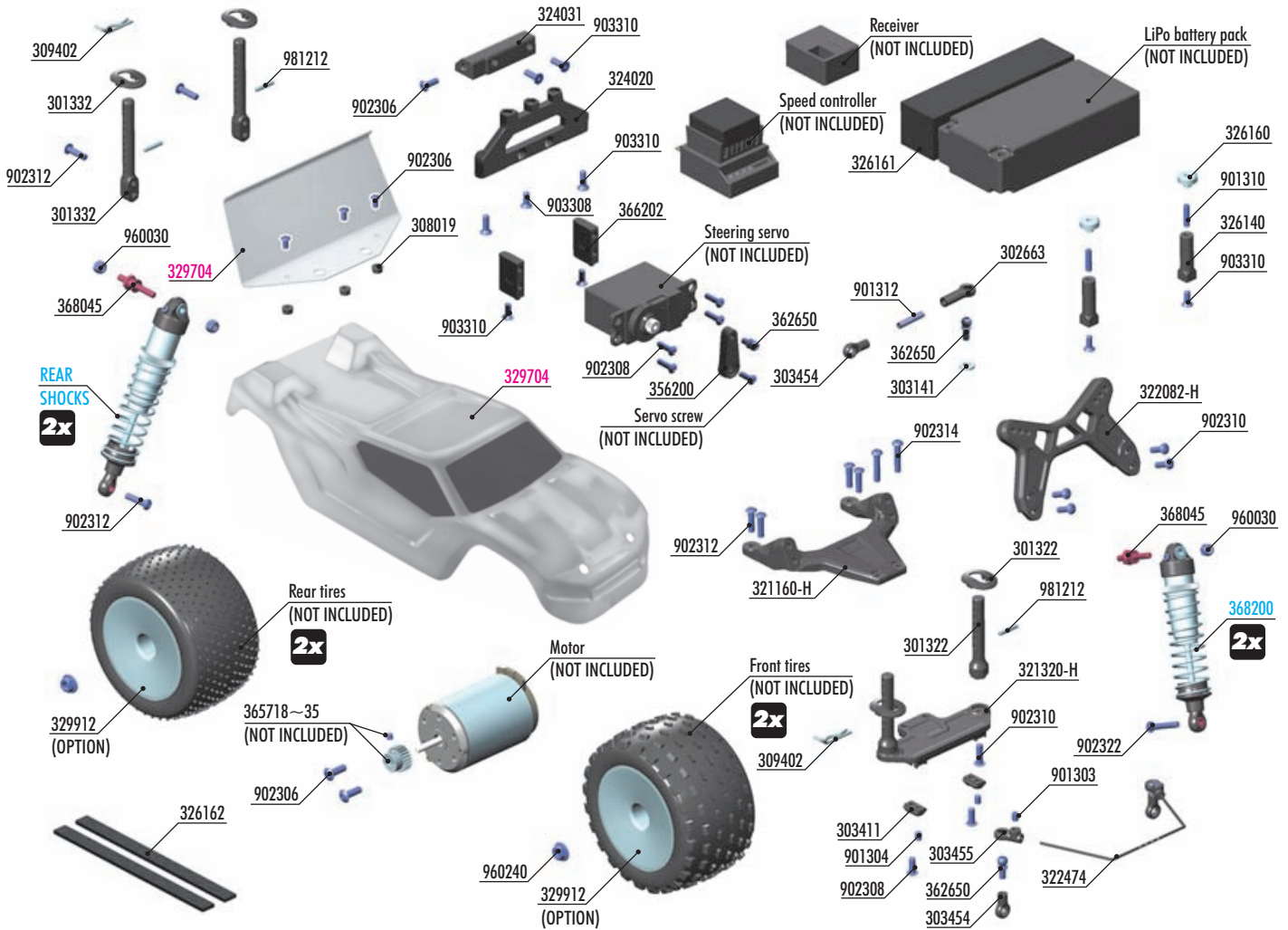
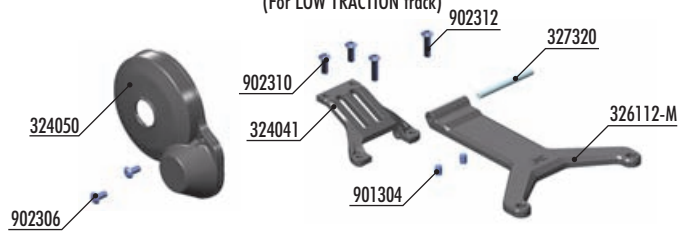
(For HIGH TRACTION track)



BAG
08

GEAR BOX MIDDLE MOTOR POSITION

(For LOW TRACTION track)



BAG
07

- 30 2663 COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8)
- 30 1322 FRONT BODY MOUNT SET 6MM
- 30 1332 REAR BODY MOUNT SET 6MM
- 30 3141 ALU SHIM 3x5x1.0MM (10)
- 30 3411 COMPOSITE ANTI-ROLL BAR HOLDERS
- 30 3454 BALL JOINT 4.9MM - OPEN (4)
- 30 3455 COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9 MM (4)
- 30 8019 COMPOSITE SET OF SHOCKS SHIMS & NUTS (2)
- 30 9402 BODY CLIP FOR 6MM BODY POST (4)
- 32 1160-H COMPOSITE FRONT UPPER DECK - HARD
- 32 1320-H XT2 COMPOSITE FRONT BODY MOUNT - HARD
- 32 2082-H XT2 COMPOSITE SHOCK TOWER FRONT - HARD
- 32 2474 XT2 FRONT ANTI-ROLL BAR 1.4 MM
- 32 4020 COMPOSITE MOUNT FOR UPPER BRACE - CARPET EDITION
- 32 4031 COMPOSITE MOTOR PLATE BRACE
- 32 4040 COMPOSITE MOTOR UPPER BRACE - CARPET EDITION
- 32 4051 COMPOSITE GEAR COVER - FRONT MOTOR POSITION
- 32 6111 COMPOSITE BATTERY STRAP - CARPET EDITION
- 32 6140 COMPOSITE BATTERY HOLDER STAND (2)
- 32 6160 ALU BATTERY HOLDER NUT (2)
- 32 6161 FOAM SPACER FOR BATTERY
- 32 6162 SELF-ADHESIVE RUBBER 1.5x6.5x155MM (2)
- 32 9912 STADIUM TRUCK WHEEL WITH 12MM HEX - WHITE (2) (OPTION)

- 35 6200 BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET
- 36 2650 BALL END 4.9MM WITH THREAD 6MM (2)
- 36 5718~35 ALU PINION GEAR - HARD COATED 18T~35T / 48 (OPTION)
- 36 6202 COMPOSITE SERVO MOUNT - HIGHER
- 36 8045 STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)
- 90 1303 HEX SCREW SB M3x3 (10)
- 90 1304 HEX SCREW SB M3x4 (10)
- 90 1310 HEX SCREW SB M3x10 (10)
- 90 1312 HEX SCREW SB M3x12 (10)
- 90 2306 HEX SCREW SH M3x6 (10)
- 90 2308 HEX SCREW SH M3x8 (10)
- 90 2310 HEX SCREW SH M3x10 (10)
- 90 2312 HEX SCREW SH M3x12 (10)
- 90 2314 HEX SCREW SH M3x14 (10)
- 90 2322 HEX SCREW SH M3x22 (10)
- 90 3308 HEX SCREW SFH M3x8 (10)
- 90 3310 HEX SCREW SFH M3x10 (10)
- 96 0030 NUT M3 (10)
- 96 0240 NUT M4 WITH SERRATED FLANGE (10)
- 98 1212 PIN 2x12 (10)

- 36 8200 SHOCK ABSORBERS COMPLETE SET (2)
- 32 9704 XRAY XT2 BODY - FRONT/REARWARD SHOCK POSITION

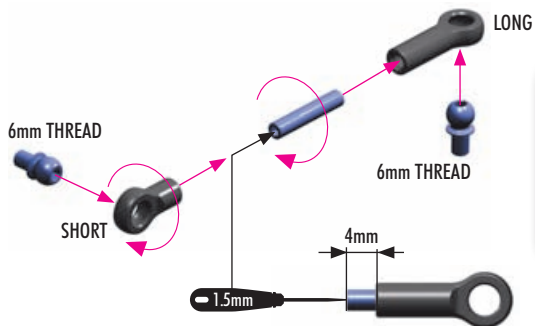
BAG
08

- 32 4041 COMPOSITE MOTOR UPPER BRACE - DIRT EDITION
- 32 4050 COMPOSITE GEAR COVER - DIRT EDITION
- 32 6112-M COMPOSITE BATTERY STRAP - MEDIUM - DIRT EDITION

- 32 7320 REAR ARM PIVOT PIN (2)
- 90 1304 HEX SCREW SB M3x4 (10)
- 90 2306 HEX SCREW SH M3x6 (10)

7. FINAL ASSEMBLY

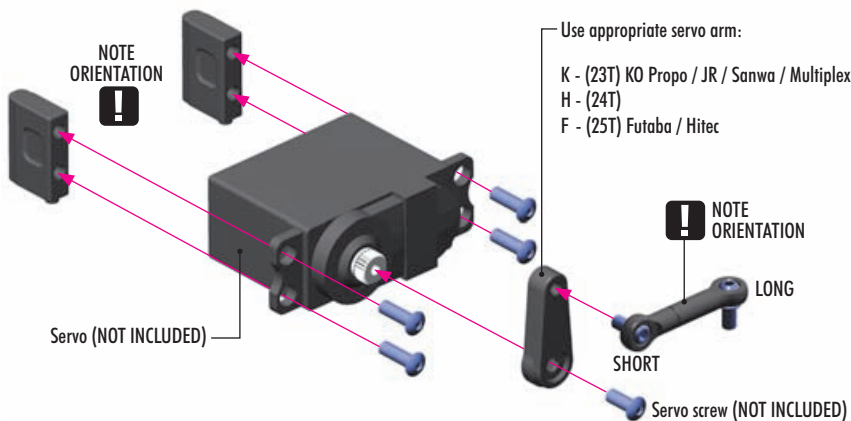
901312
SB M3x12



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



902308
SH M3x8



HUDY ALU SERVO HORNS

#293497	23T
#293498	24T
#293499	25T



HUDY CLAMP ALU SERVO HORNS

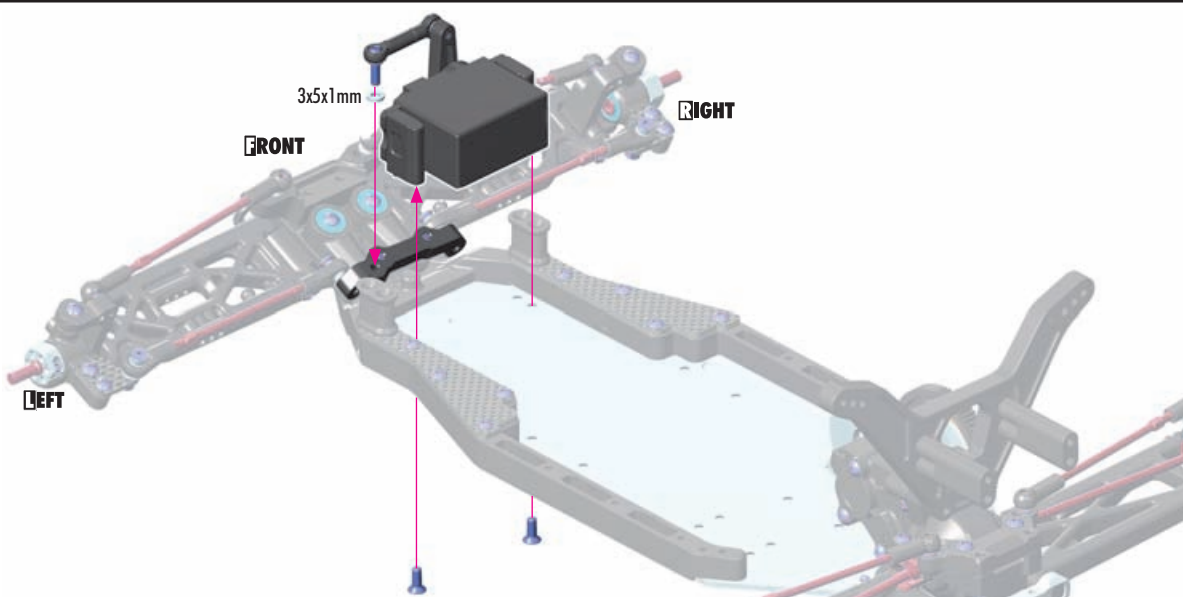
#293404	23T
#293405	24T
#293406	25T



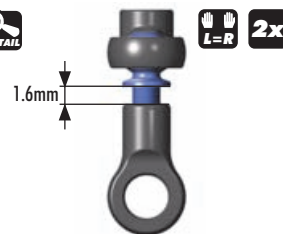
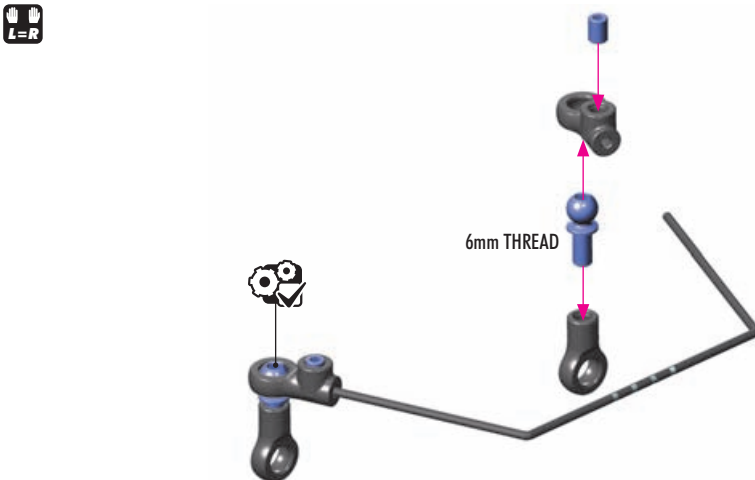
For more in-corner steering and better steering response, aluminum servo horns may be used.

303141
SHIM 3x5x1

903310
SFH M3x10



901303
SB M3x3



ANTI-ROLL BARS

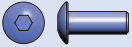
#322472	1.2mm	OPTION
#322474	1.4mm	INCLUDED
#322476	1.6mm	OPTION
#322478	1.8mm	OPTION

7. FINAL ASSEMBLY

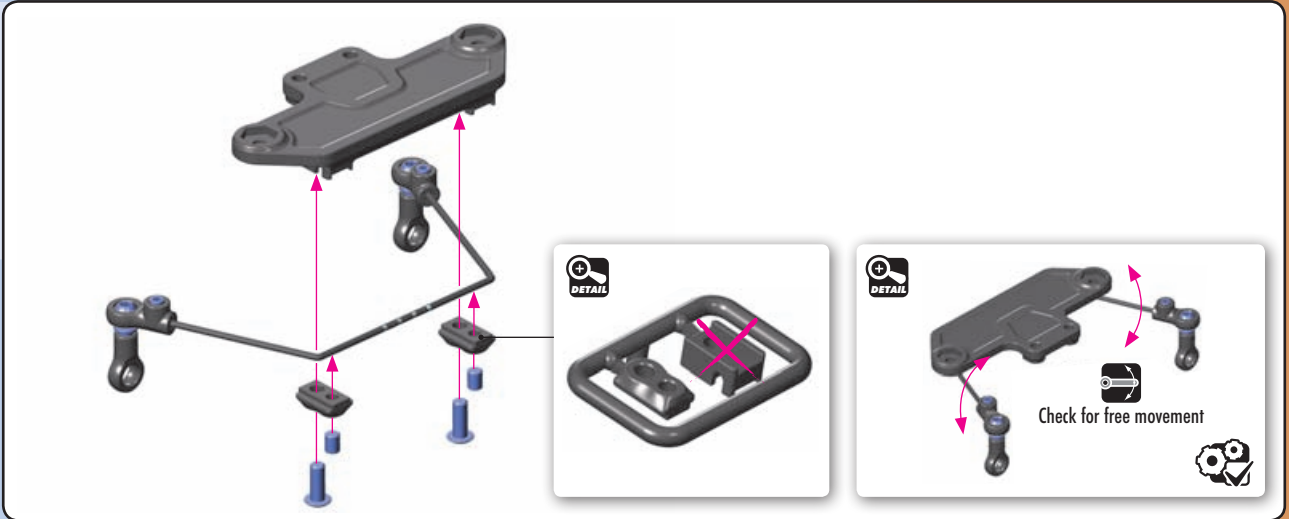
CARPET DIRT



901304
SB M3x4



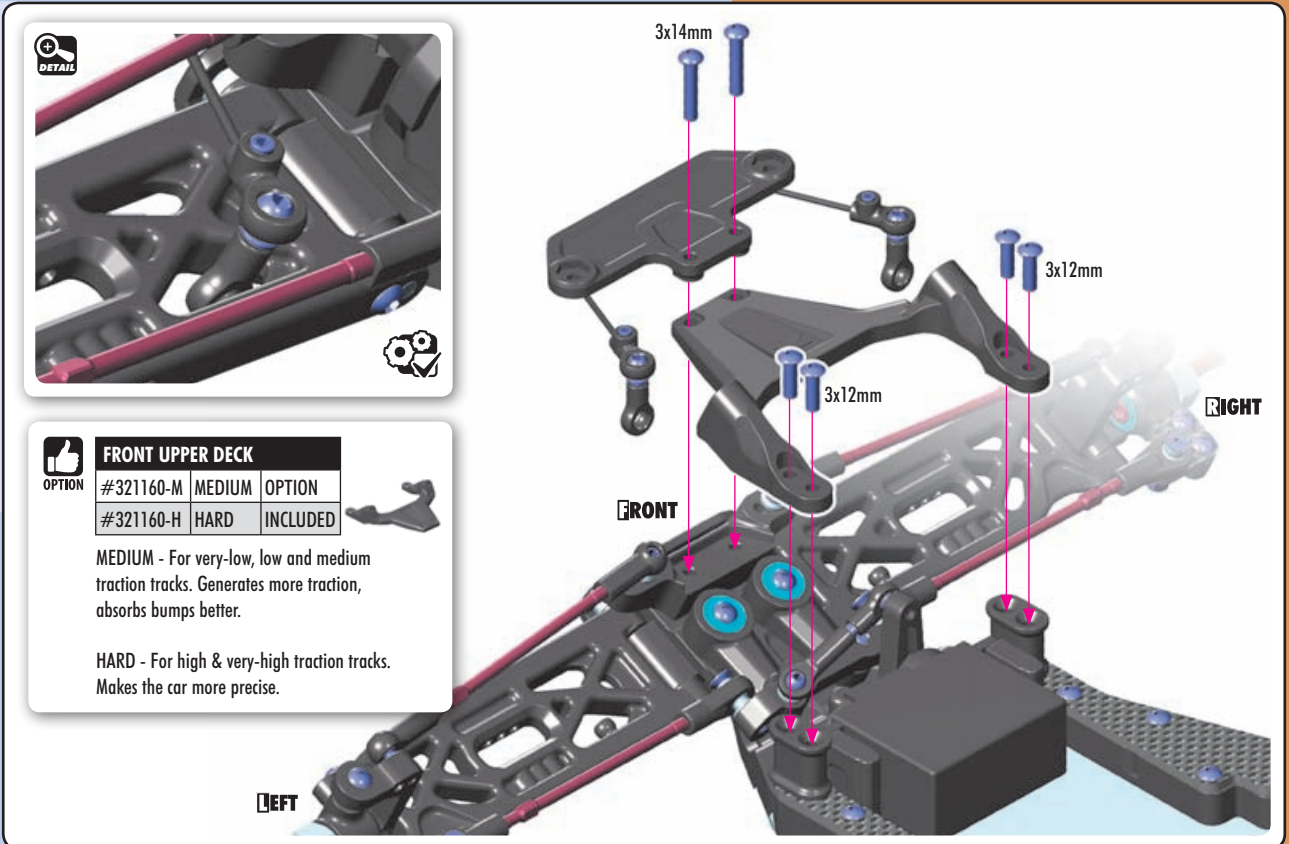
902308
SH M3x8



902312
SH M3x12



902314
SH M3x14



FRONT UPPER DECK

OPTION	#321160-M	MEDIUM	OPTION
	#321160-H	HARD	INCLUDED

MEDIUM - For very-low, low and medium traction tracks. Generates more traction, absorbs bumps better.

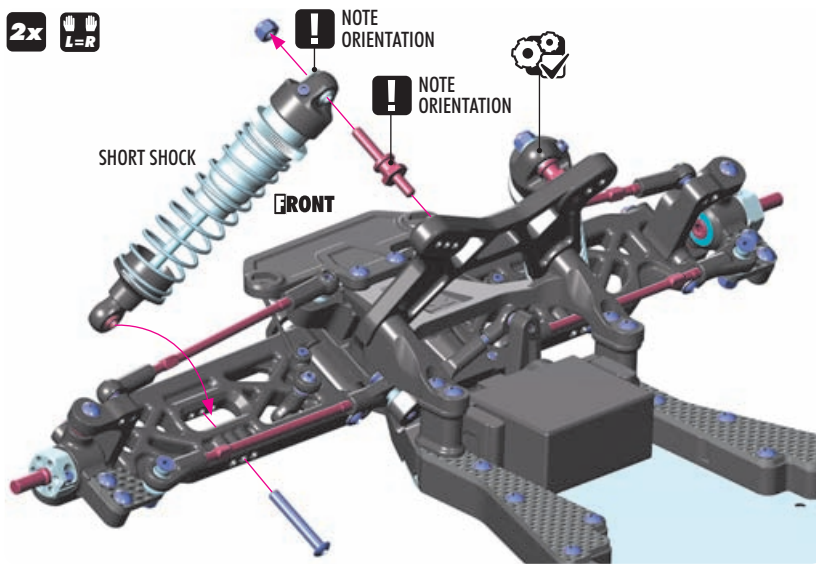
HARD - For high & very-high traction tracks. Makes the car more precise.



902322
SH M3x22



960030
NUT M3



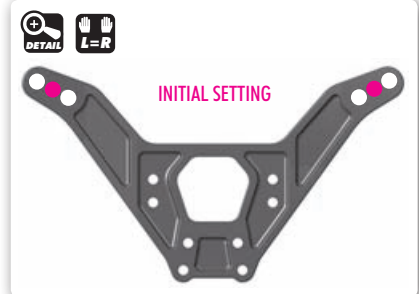
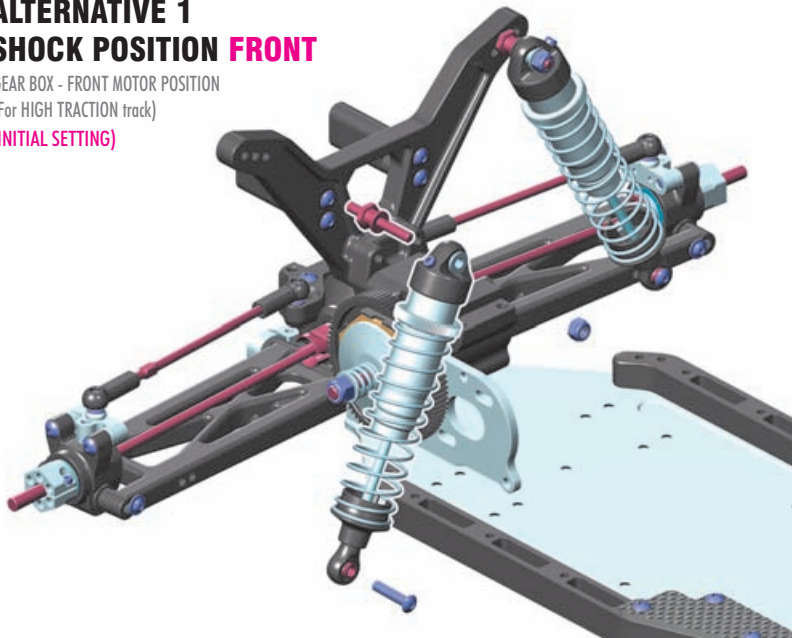
902312
SH M3x12



960030
NUT M3

ALTERNATIVE 1 SHOCK POSITION FRONT

GEAR BOX - FRONT MOTOR POSITION
(For HIGH TRACTION track)
(INITIAL SETTING)



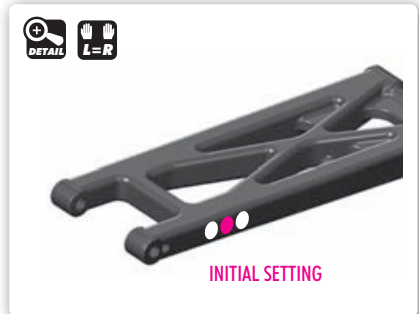
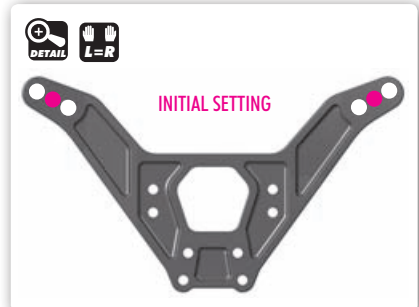
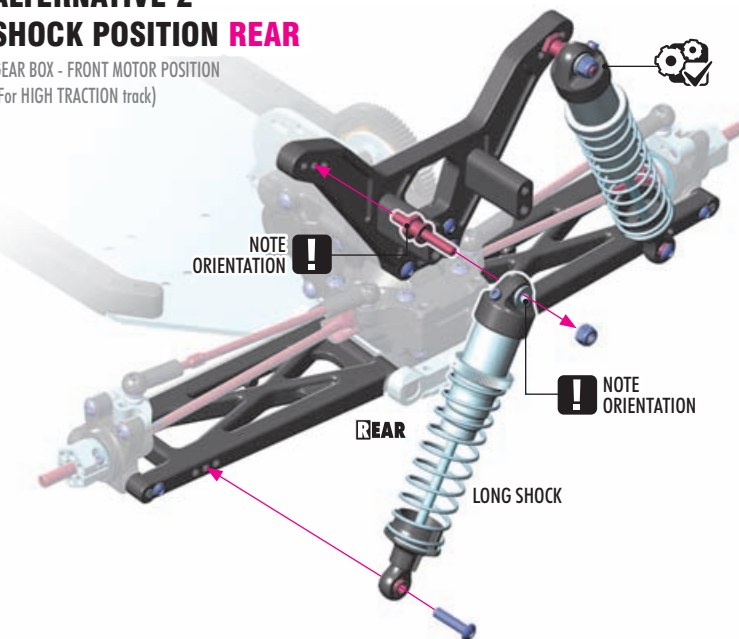
902312
SH M3x12



960030
NUT M3

ALTERNATIVE 2 SHOCK POSITION REAR

GEAR BOX - FRONT MOTOR POSITION
(For HIGH TRACTION track)





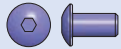
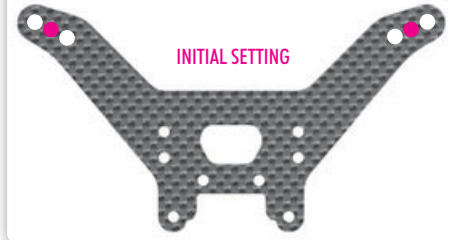
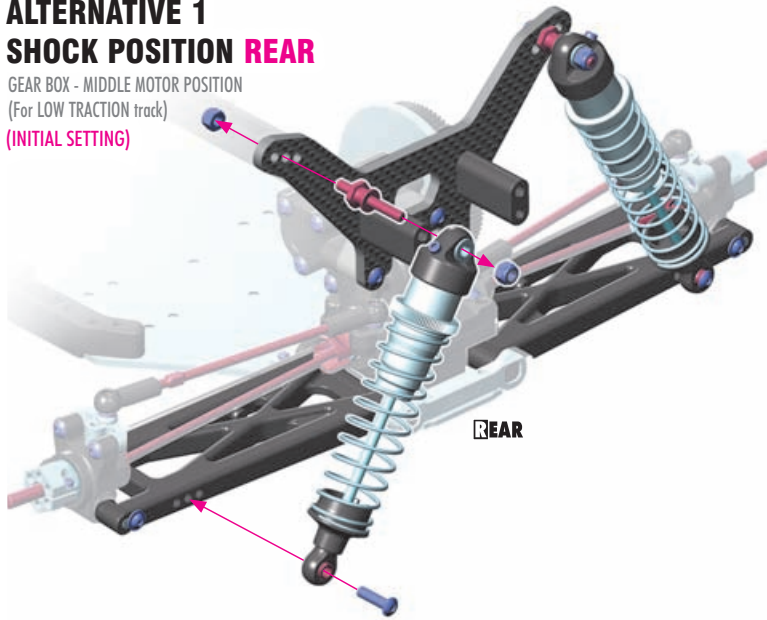
902310
SH M3x10



960030
NUT M3

ALTERNATIVE 1 SHOCK POSITION REAR

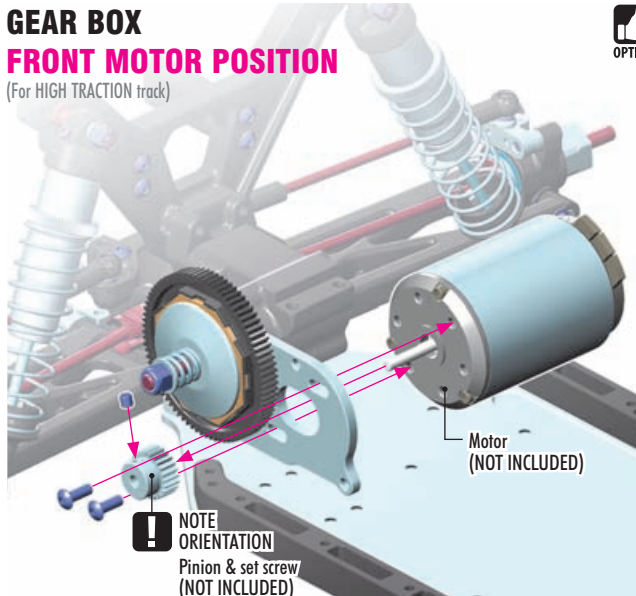
GEAR BOX - MIDDLE MOTOR POSITION
(For LOW TRACTION track)
(INITIAL SETTING)



902306
SH M3x6

GEAR BOX FRONT MOTOR POSITION

(For HIGH TRACTION track)

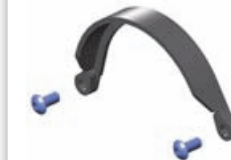


PINIONS (48P)

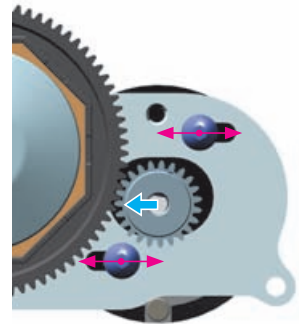
#365718	18T	#365728	28T
#365719	19T	#365729	29T
#365720	20T	#365730	30T
#365721	21T	#365731	31T
#365722	22T	#365732	32T
#365723	23T	#365733	33T
#365724	24T	#365734	34T
#365725	25T	#365735	35T
#365726	26T	#365736	36T
#365727	27T	#365737	37T
		#365738	38T



#324051
COMPOSITE GEAR COVER



NOTE
ORIENTATION
Pinion & set screw
(NOT INCLUDED)



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

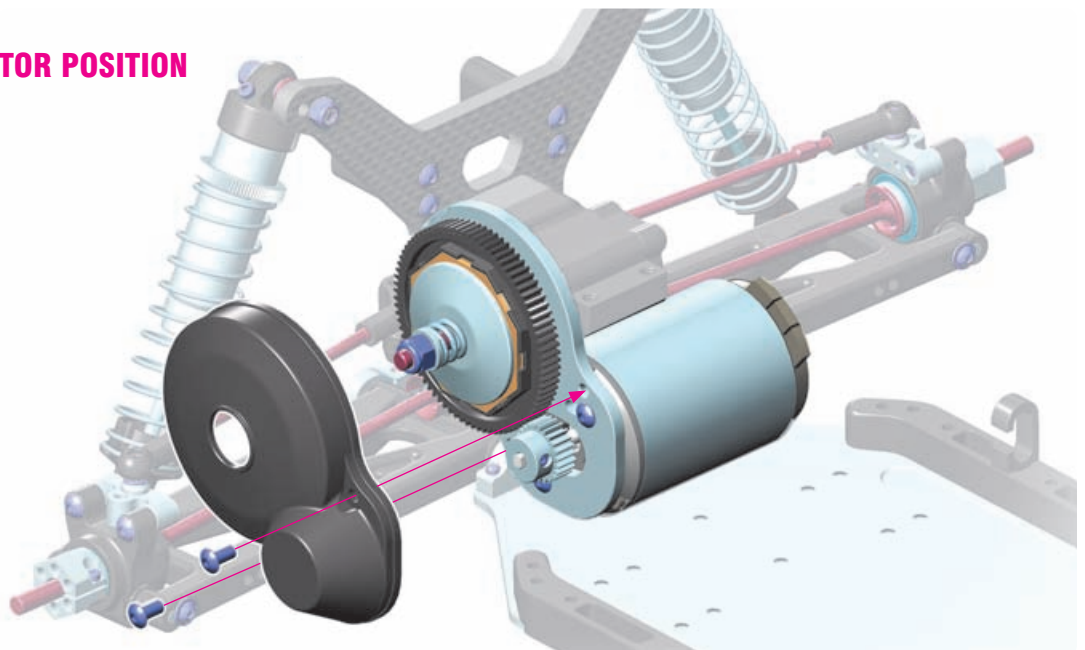
There should be a small amount of play between the teeth of the pinion gear and the spur gear.



902306
SH M3x6

GEAR BOX MIDDLE MOTOR POSITION

(For LOW TRACTION track)



7. FINAL ASSEMBLY

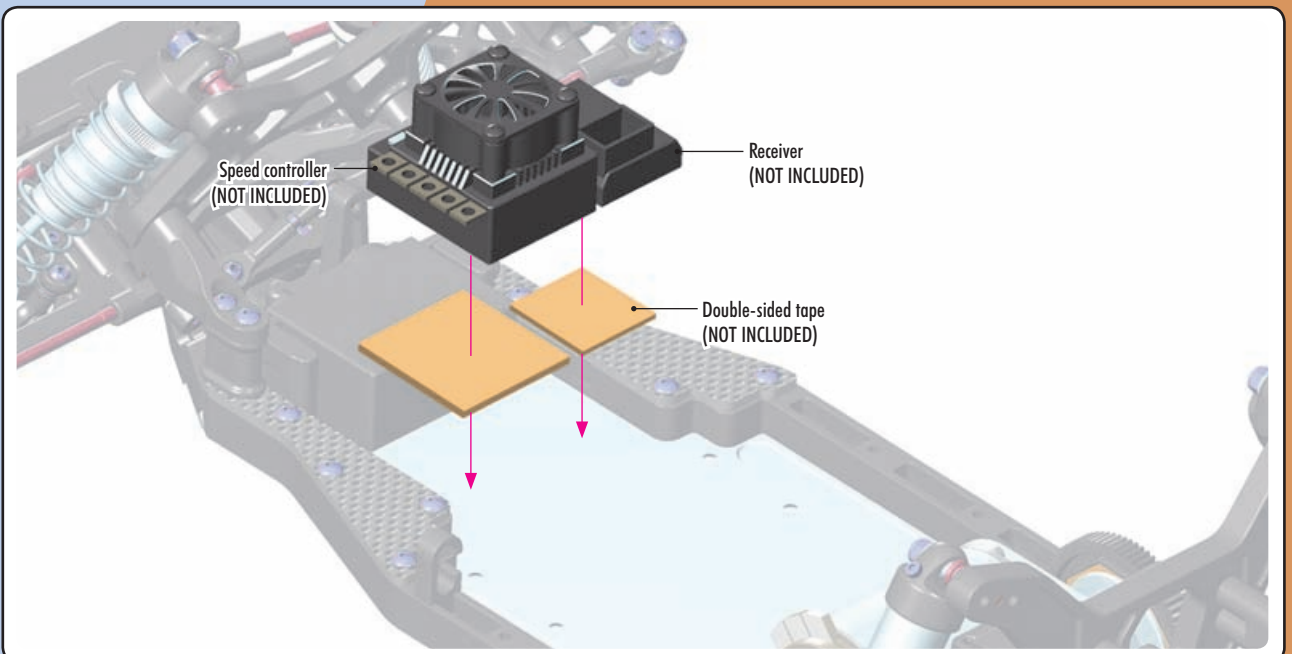
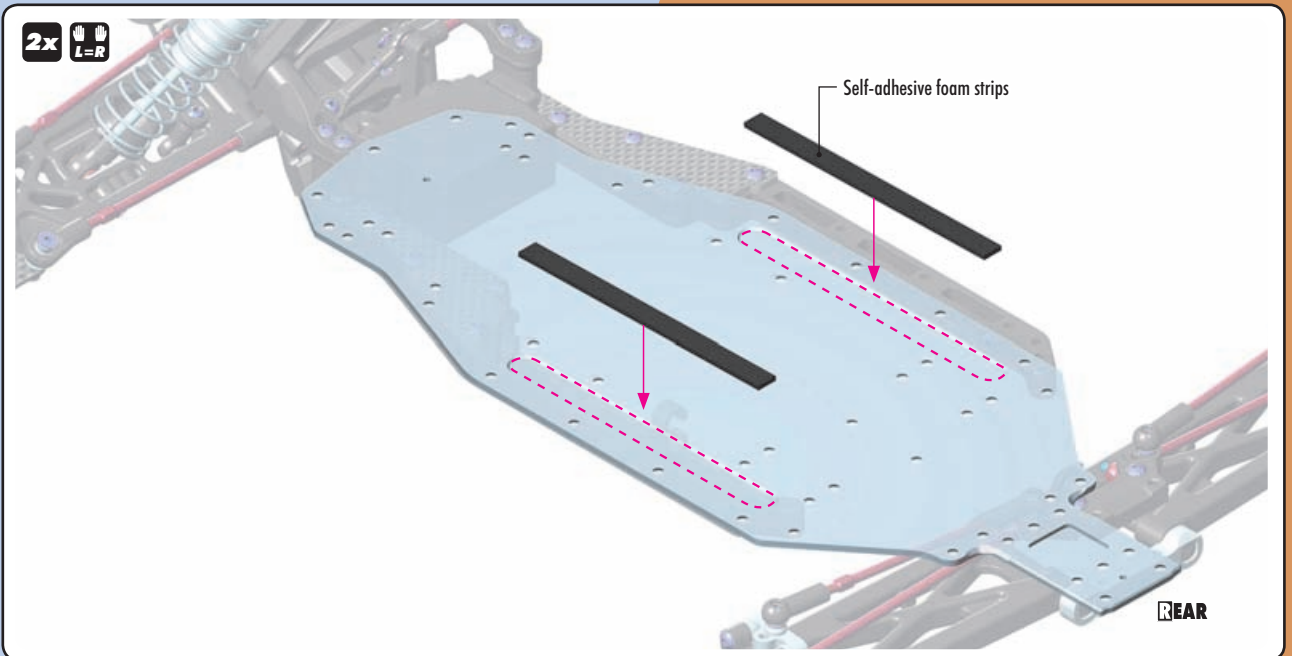
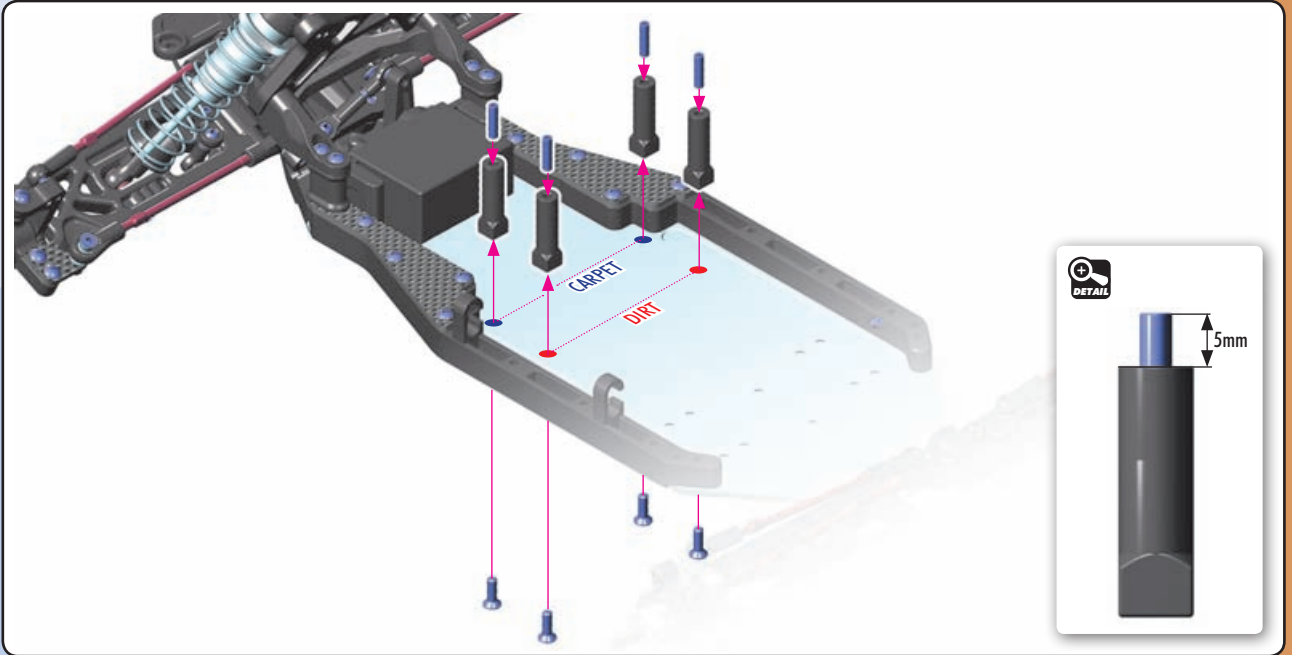
CARPET DIRT



901310
SB M3x10



903310
SFH M3x10

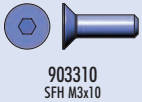




902310
SH M3x10



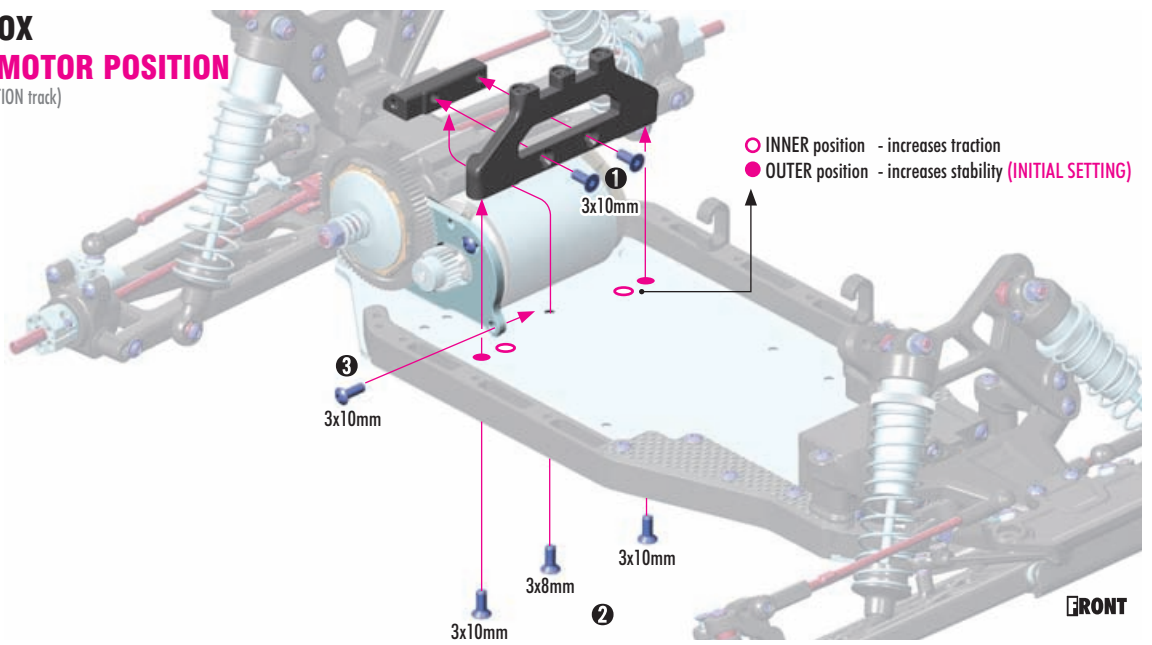
903308
SFH M3x8



902310
SFH M3x10

GEAR BOX FRONT MOTOR POSITION

(For HIGH TRACTION track)



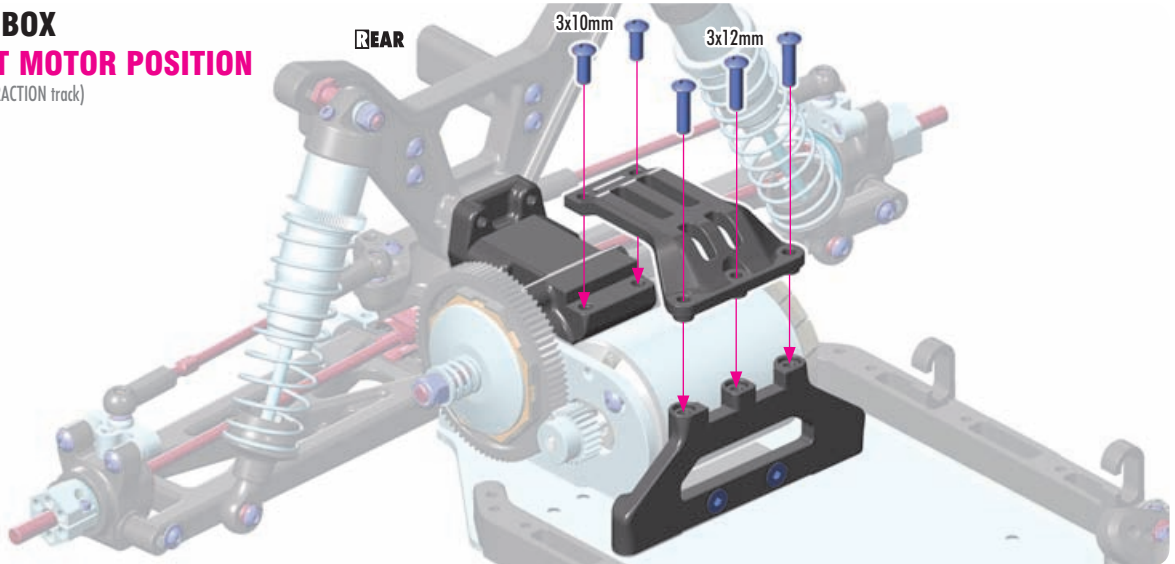
902310
SH M3x10



902312
SH M3x12

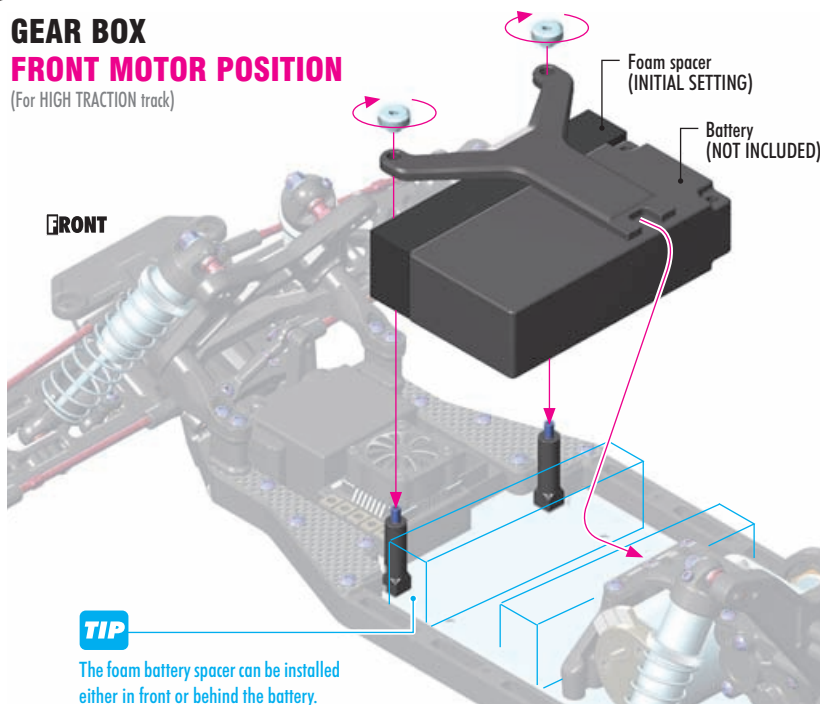
GEAR BOX FRONT MOTOR POSITION

(For HIGH TRACTION track)



GEAR BOX FRONT MOTOR POSITION

(For HIGH TRACTION track)



BATTERY STRAP		
#326110	GRAPHITE	OPTION
#326111	COMPOSITE	INCLUDED



REAR BATTERY POSITION:
More traction on rear suspension, less steering.

FRONT BATTERY POSITION:
Less traction on rear suspension, more corner speed.



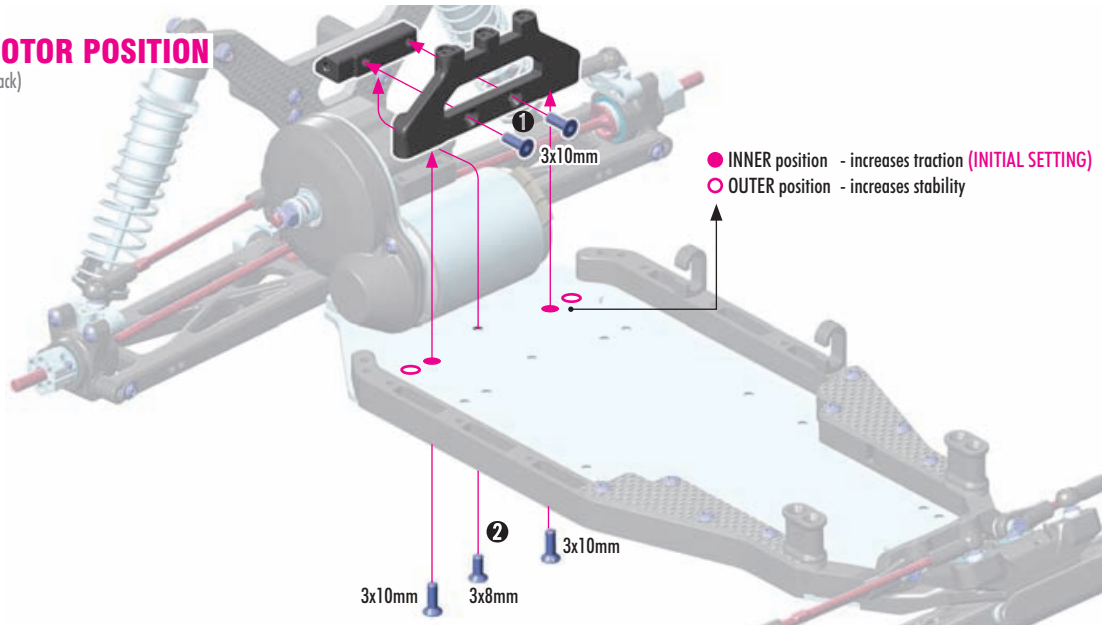
BATTERY WEIGHT		
#326180	50g	OPTION
#326181	35g	OPTION



-  902310
SH M3x10
-  903308
SFH M3x8
-  903310
SFH M3x10

GEAR BOX MIDDLE MOTOR POSITION

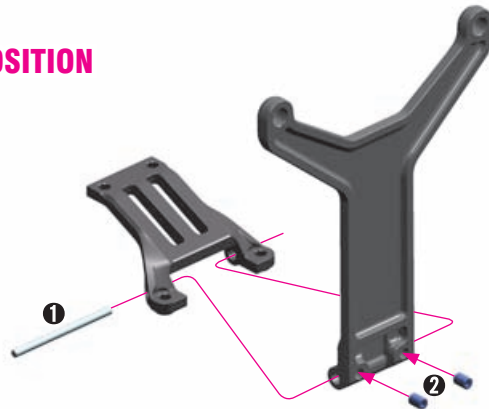
(For LOW TRACTION track)





-  901304
SB M3x4

GEAR BOX MIDDLE MOTOR POSITION

(For LOW TRACTION track)



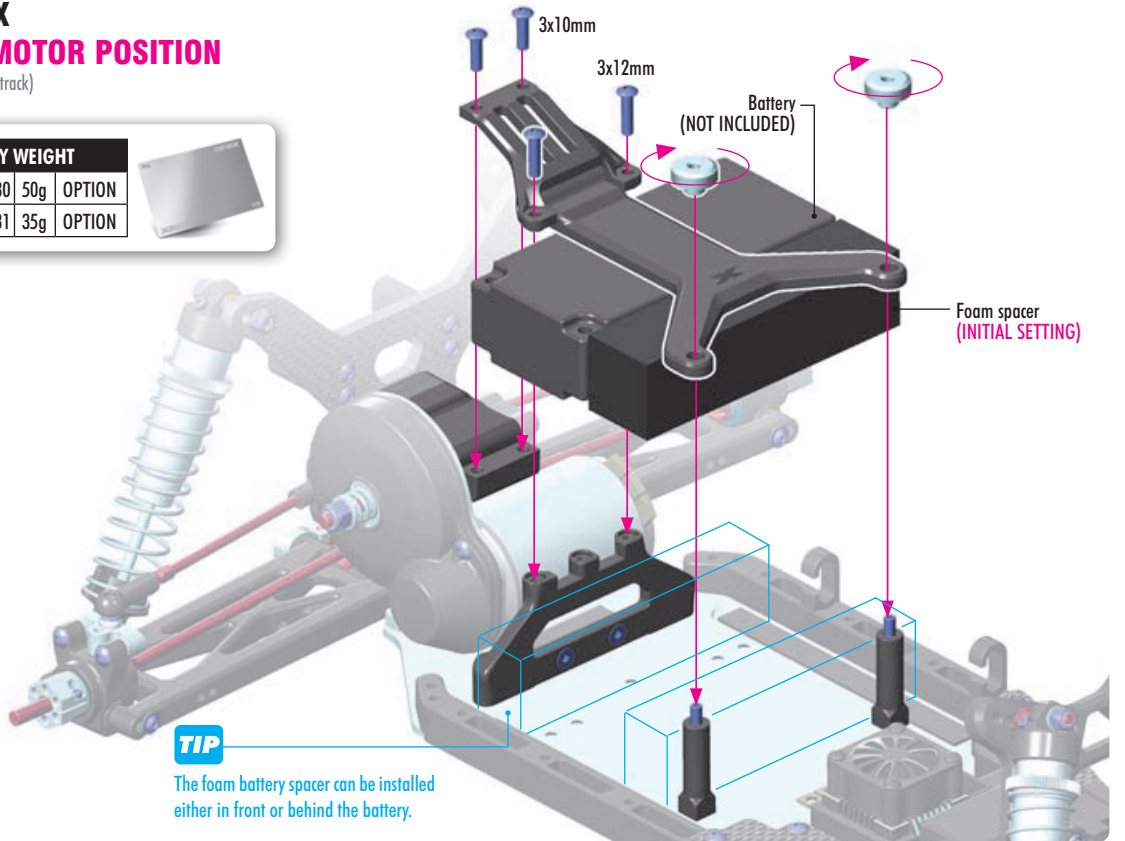
BATTERY STRAP			
OPTION	#326112-M	MEDIUM	INCLUDED
	#326112-H	HARD	OPTION

-  902310
SH M3x10
-  902312
SH M3x12

GEAR BOX MIDDLE MOTOR POSITION

(For LOW TRACTION track)

BATTERY WEIGHT			
OPTION	#326180	50g	OPTION
	#326181	35g	OPTION



TIP
The foam battery spacer can be installed either in front or behind the battery.

7. FINAL ASSEMBLY

CARPET DIRT




902310

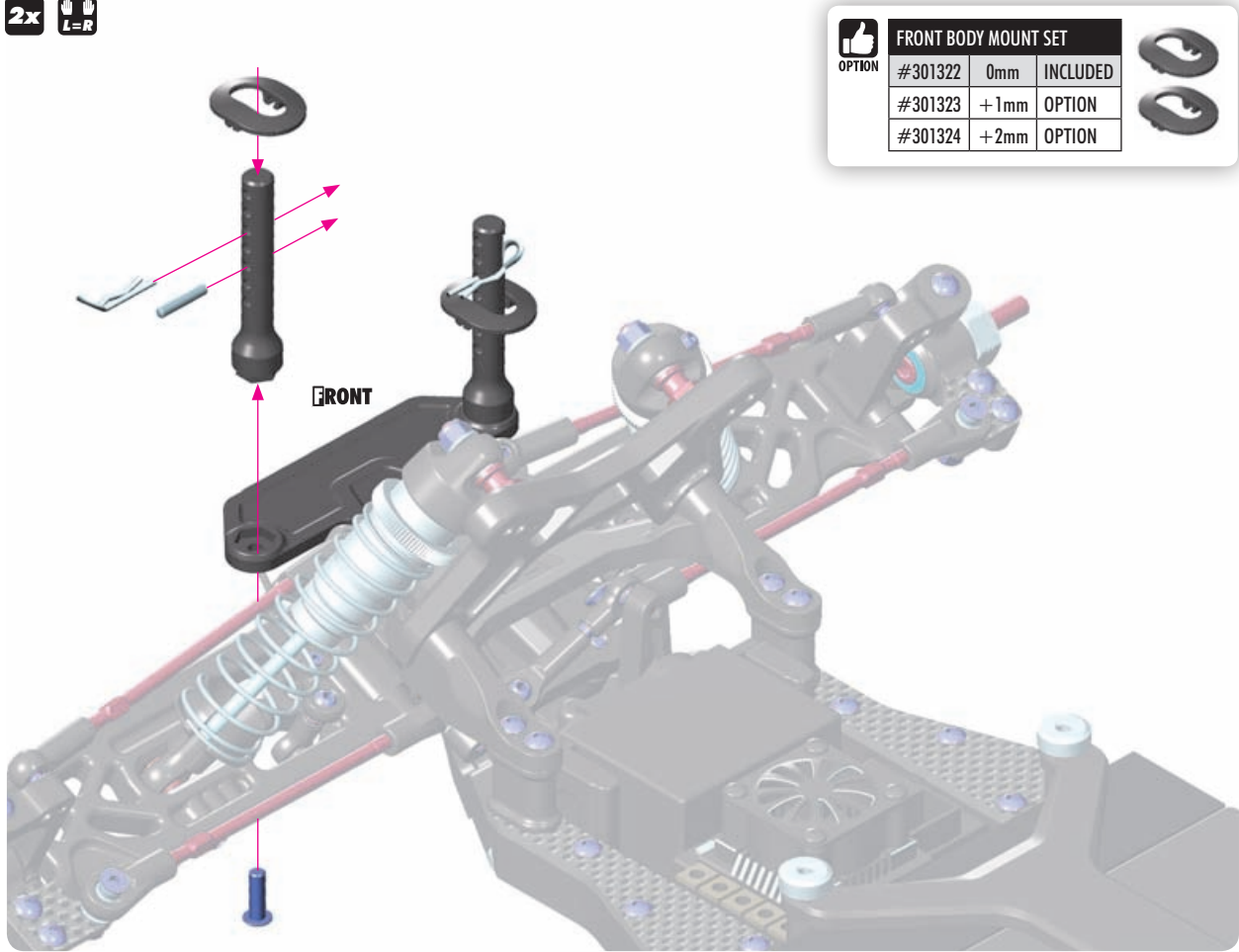
 SH M3x10




981212


 P 2x12

2x




FRONT

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






902312

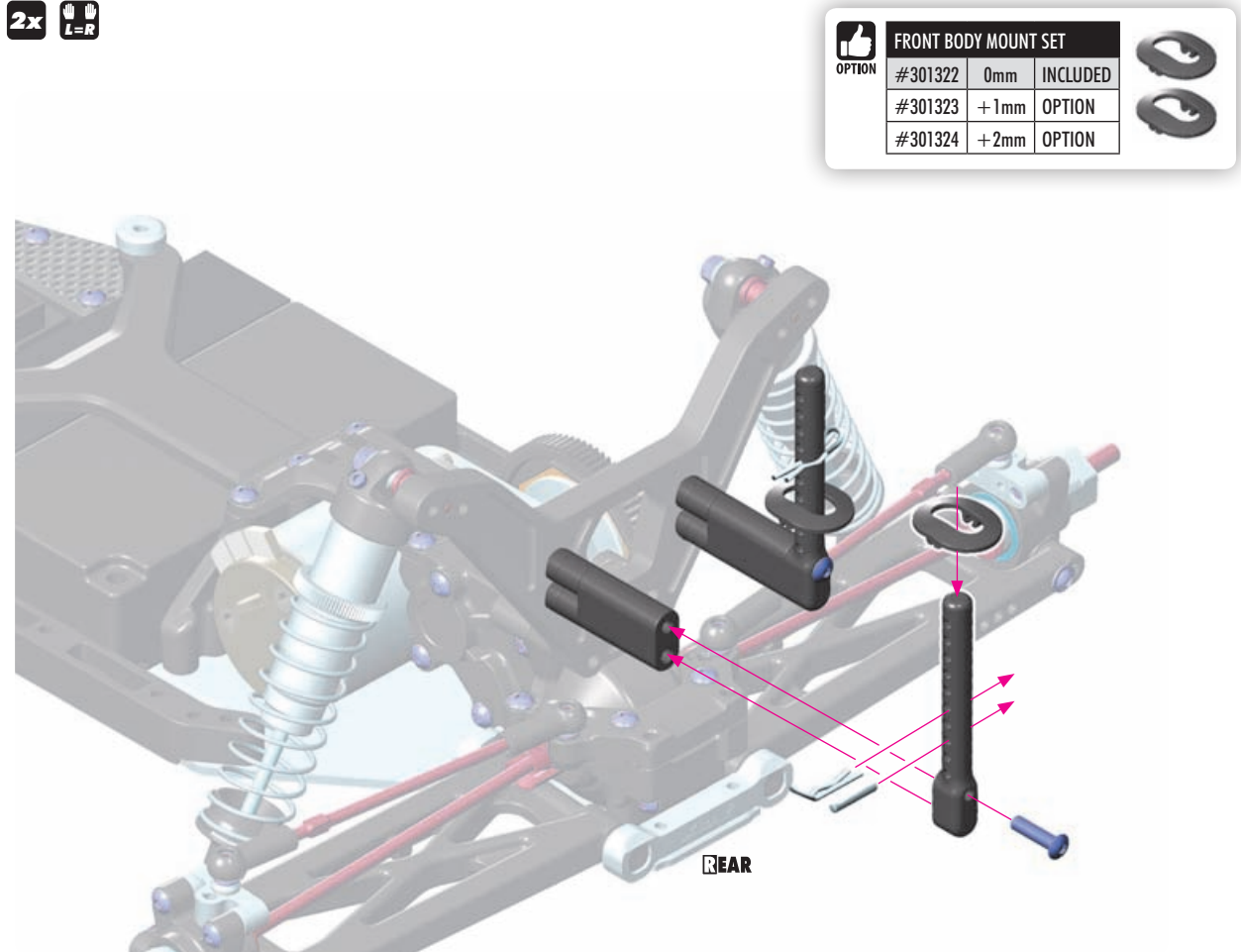
 SH M3x12




981212


 P 2x12

2x




REAR

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



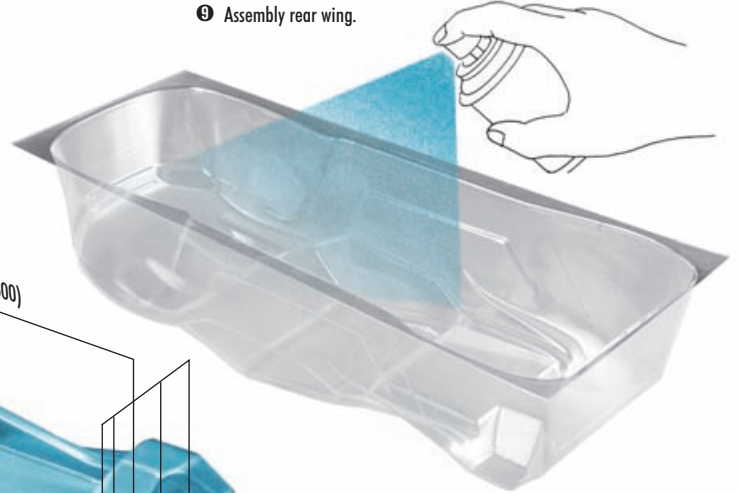
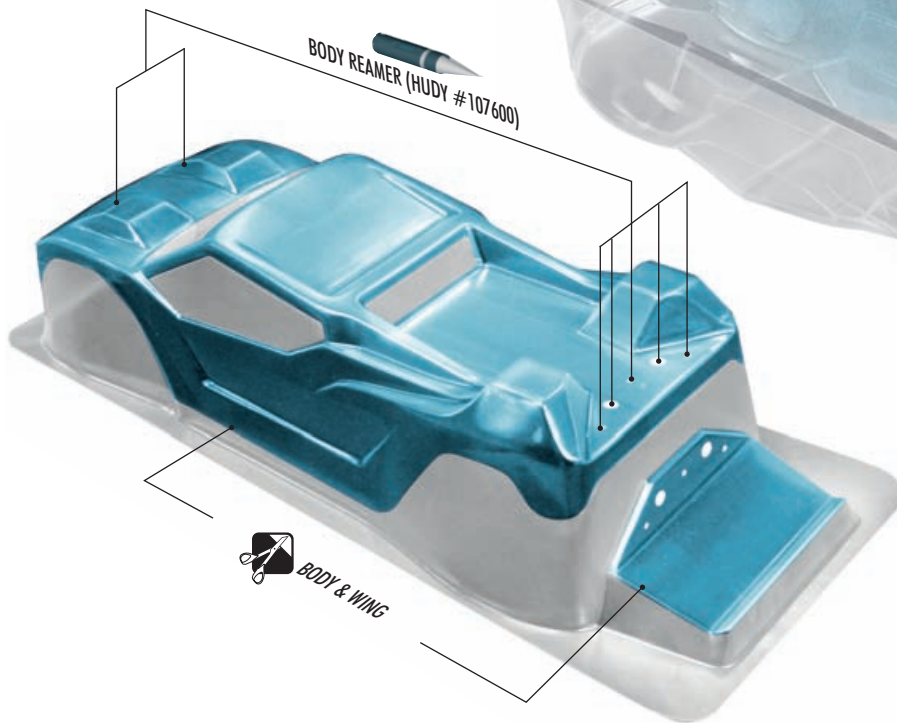
7. FINAL ASSEMBLY

CARPET DIRT



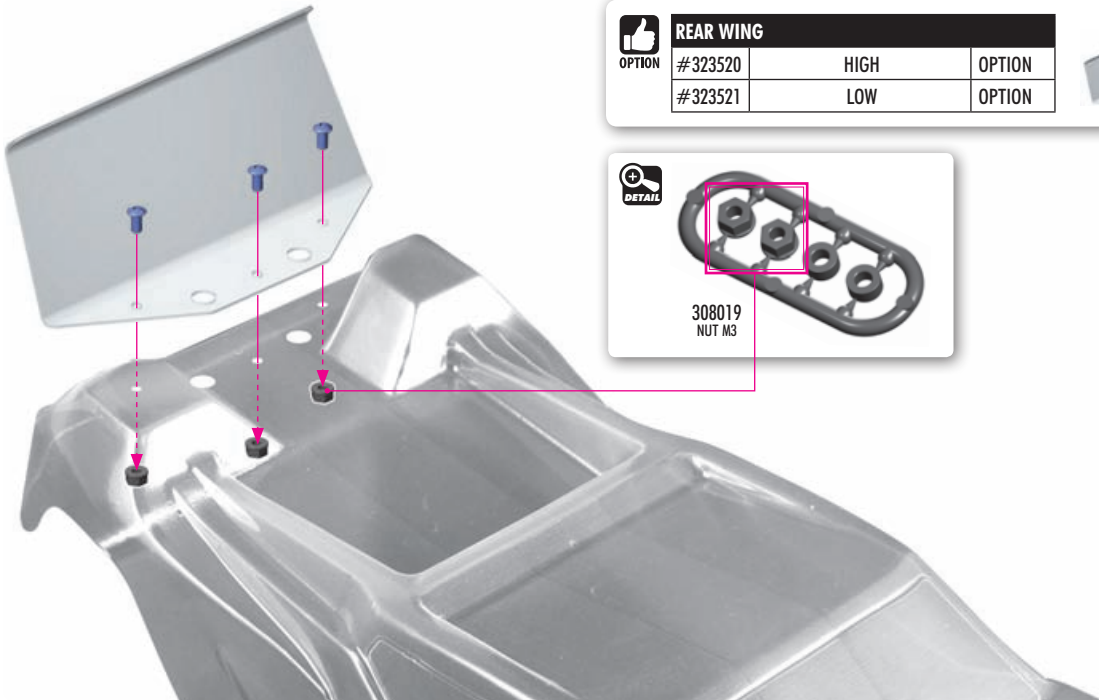
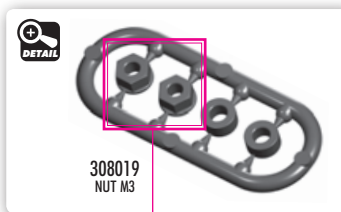
- 1 Before cutting and making holes on the BODY, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts. Before cutting and making holes on the WING, put the unpainted wing on the wing holders to confirm the mounting position and location for holes and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

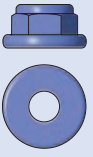
- 5 Paint the body using paints formulated for polycarbonate bodies.
- 6 When the paint is dry, remove the masking.
- 7 Carefully cut out the body using appropriate scissors or cutting tools.
- 8 When you have finished cutting, peel off the external protective films.
- 9 Assembly rear wing.



BODY STADIUM TRUCK			
OPTION	#329704	1.0mm	F/R SHOCK POSITION INCLUDED
	#329705	0.75mm	F/R SHOCK POSITION OPTION

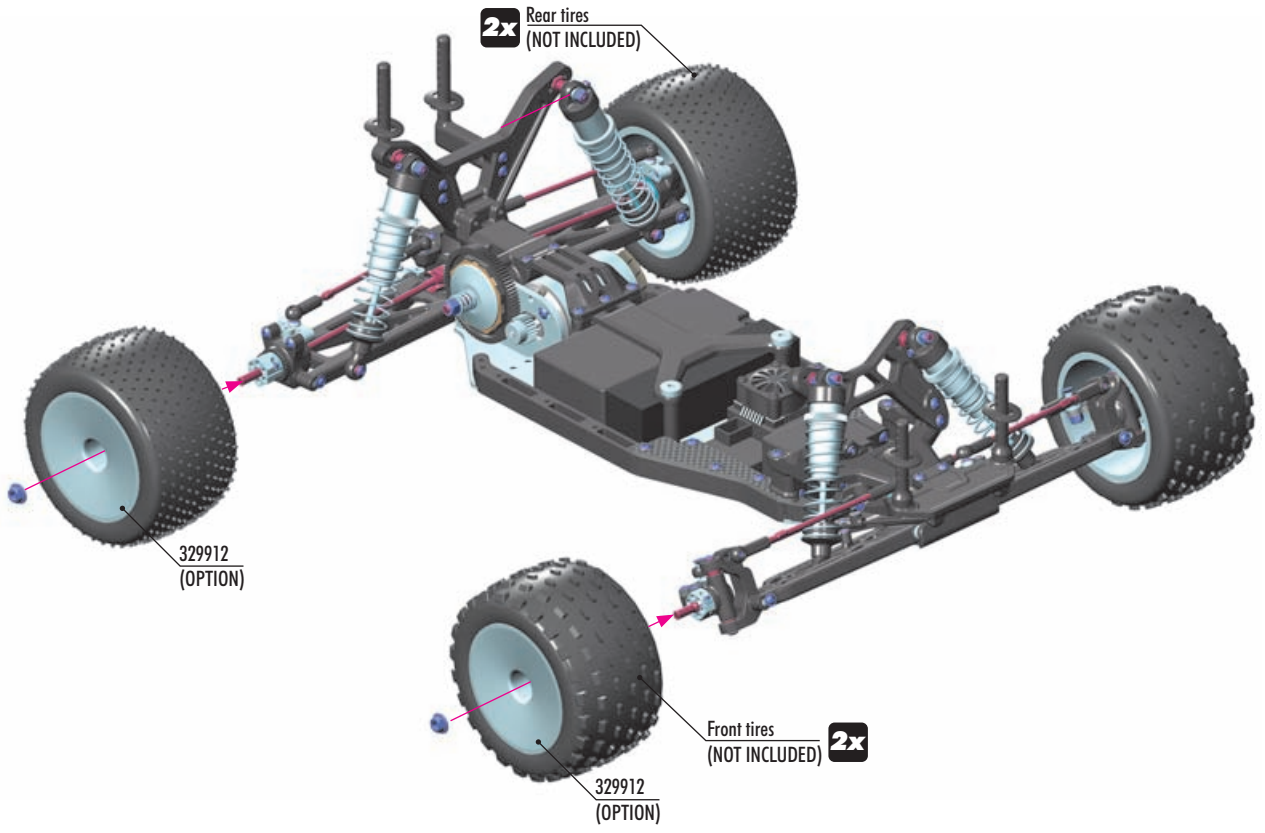
REAR WING		
OPTION	#323520	HIGH OPTION
	#323521	LOW OPTION



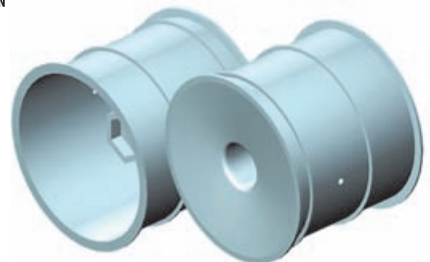


960240
N M4

4x 



#329912
STADIUM TRUCK WHEEL AERODISK WITH 12MM HEX - WHITE (2)



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 XB2 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.

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/TeamXray



/XrayRacing



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