XRAY

1/10 LUXURY ELECTRIC STADIUM TRUCK

XT2 19



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.

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.

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.

CUSTOMER SUPPORT

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

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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 guaranty immediately.

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

IMPORTANT NOTES – GENERAL

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

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

IMPORTANT NOTES – ELECTRICAL

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

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

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

QUALITY CERTIFICATE

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

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

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)







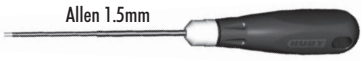



Tweezer

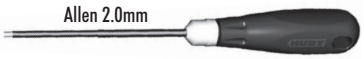


HUDY TOOLS:

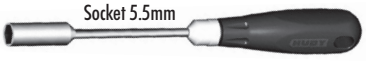
Allen 1.5mm



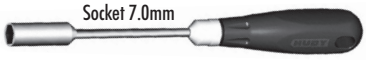
Allen 2.0mm



Socket 5.5mm



Socket 7.0mm



Arm Reamer 3.0mm



Reamer (HUDY #107600) or (HUDY #107601)



EQUIPMENT INCLUDED

HUDY Premium Silicone Oils

Oil 500cSt (#106350)

Oil 650cSt (#106365)

Oil 10.000cSt (#106510) (Carpet Version)



Graphite Grease (HUDY #106210)



NOT INCLUDED

Follow Set-Up Book



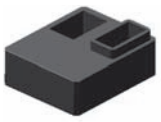
To ensure that you always have access to the most up-to-date version of the Set-up Book you can download the HUDY Set-up Book from their web site at [www.hudy.net] By offering this online version instead of including a hardcopy printed version in kits, you will always be assured of having the most current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

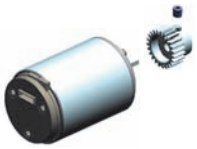
SAMPLE OF OPTIONAL PARTS	
#32XXXX	OPTION 1
#32XXXX	OPTION 2
#32XXXX	INCLUDED
#32XXXX	OPTION 3

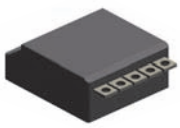
XRAY offers wide range of optional tuning parts which are listed in a table like this. Please refer to the exploded view of each main section to verify which part is included in the kit while all other parts are available only as an optional part and must be purchased separately.

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.

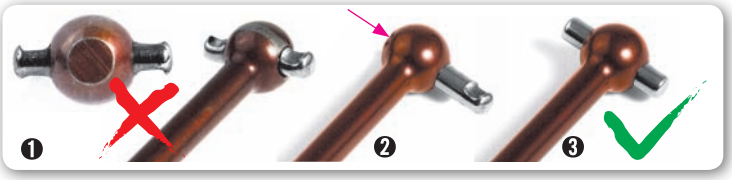
321100 **STYLE B** - indicates parts that are included in the box.

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.



Do not use drive shafts when the pins are worn.

Press out the worn pins.

Press in new pins and regularly inspect for wear.



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



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

TIP GRAPHITE PARTS PROTECTION

Protect all XT2 Graphite Parts:

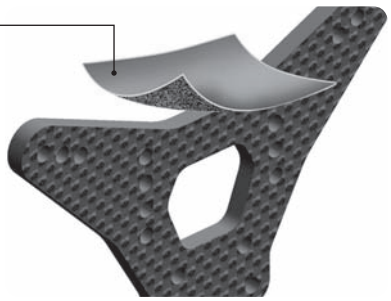
- Rear shock tower

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.

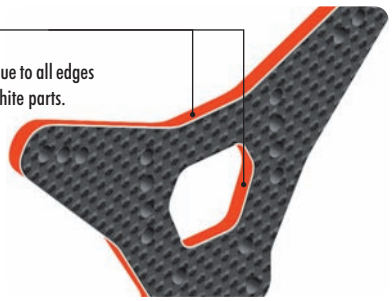
Fine sandpaper

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

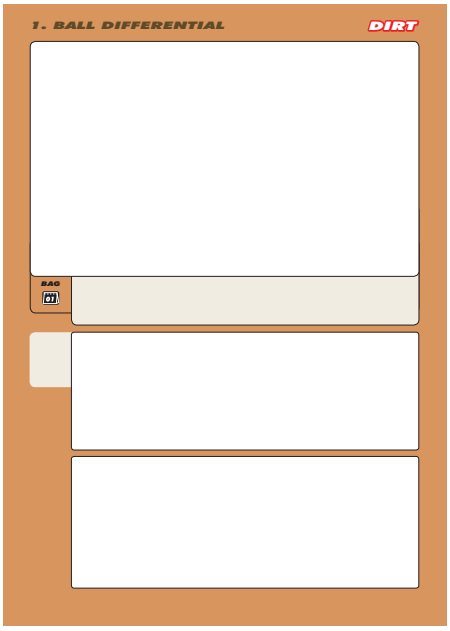


CA

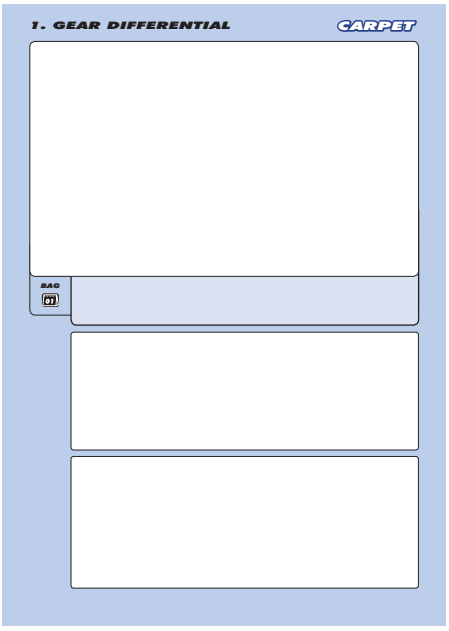
Apply CA glue to all edges of the graphite parts.



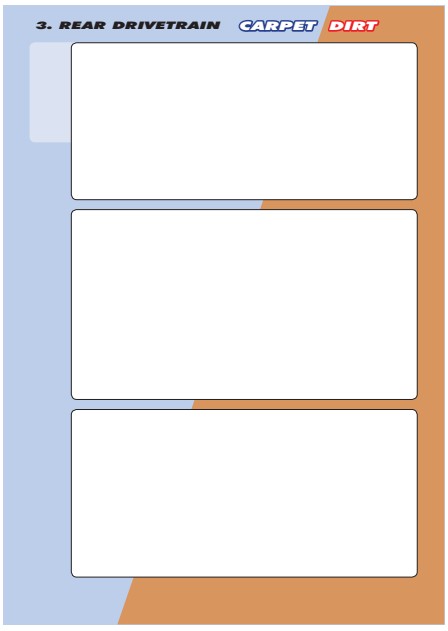
MANUAL STEPS ONLY FOR DIRT



MANUAL STEPS ONLY FOR CARPET



MANUAL DUAL STEPS FOR CARPET AND DIRT



OPTION

BEVEL & SATELITTE GEARS + PINS		
#304932 + #304980	COMPOSITE	INCLUDED
#335030 + #335080	STEEL	OPTION



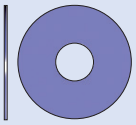
OPTION

GEAR DIFF. CASE		
#324910	HARD	INCLUDED
#324910-G	GRAPHITE	OPTION
GEAR DIFF. PULLEY		
#324953	HARD	INCLUDED
#324953-G	GRAPHITE	OPTION



BAG 01

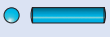
30 4932	GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)	90 2258	HEX SCREW SH M2.5x8 (10)
30 4980	COMPOSITE GEAR DIFF CROSS PIN	94 1014	BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)
32 4990	DIFF GASKET (4)	96 4031	WASHER S 3.5x10x0.2 (10)
32 4901	GEAR DIFFERENTIAL FOR 2.5MM PIN - SET	96 4050	WASHER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



964050
S 5x15x0.3

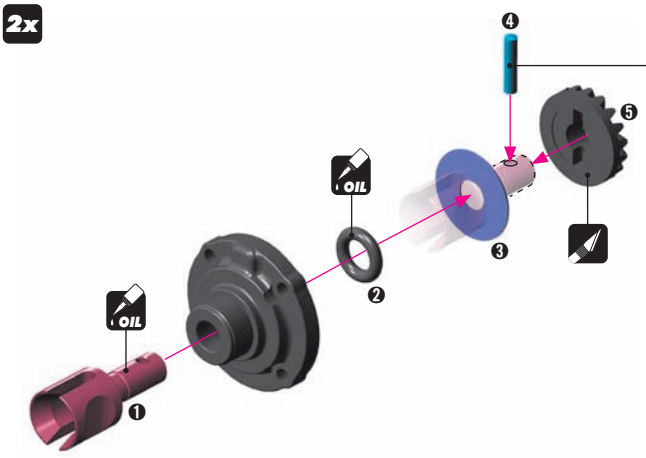


972050
O 5x2

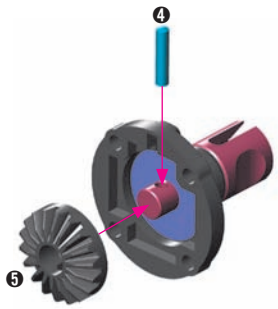


981210
P 2x10

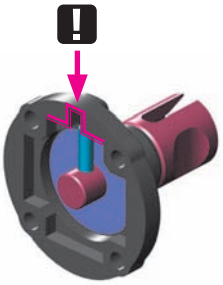
2x

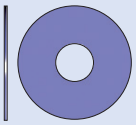


DETAIL STEP ❹❺



NOTE ORIENTATION





964050
S 5x15x0.3



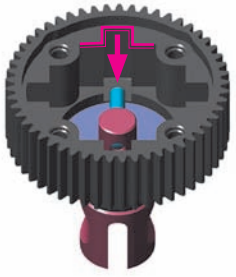
972050
O 5x2



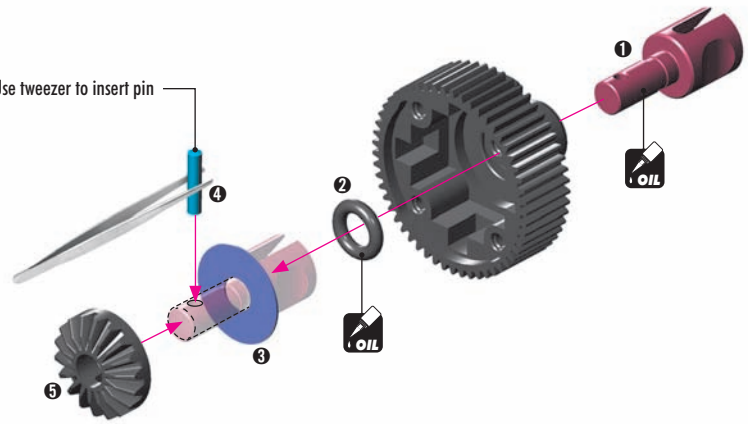
981210
P 2x10

DETAIL

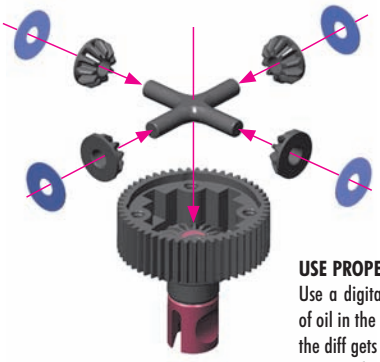
NOTE ORIENTATION



Use tweezer to insert pin



964031
S 3.5x10x0.2



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

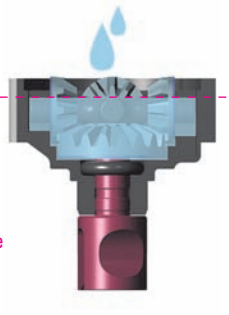
Rear diff

Silicone oil 10 000cSt
Fill just above the diff pin.

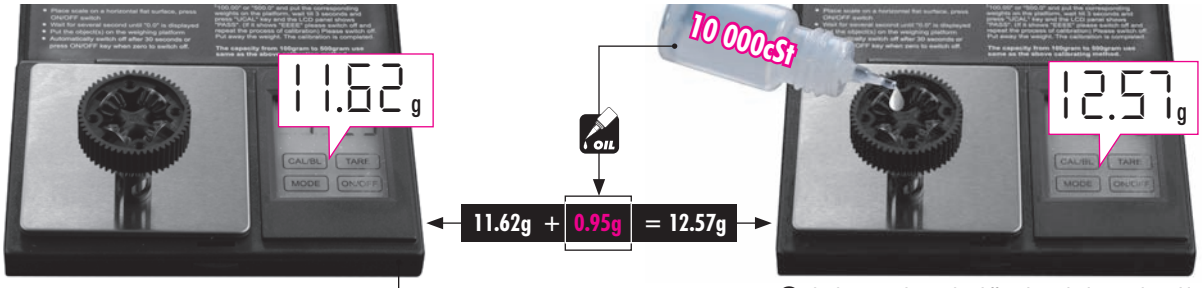


Fill differential up to the top of the diff pin.

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:



❶ Put the diff (without oil) on the scale and check the weight (approximately 11.62g)

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

❷ 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.

OPTION HUDY

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

TIP **TIPS FOR REAR DIFFERENTIAL**

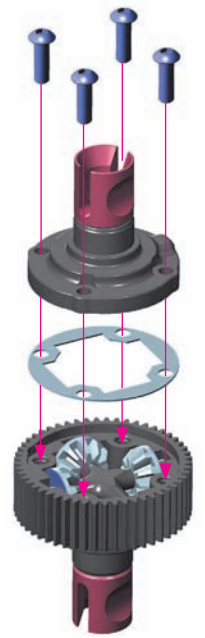
LOW-MEDIUM TRACTION	5 000cSt (HUDY #106450)
MEDIUM-HIGH TRACTION	10 000cSt (HUDY #106511)

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

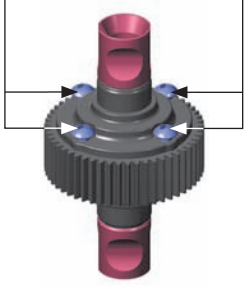
SET-UP BOOK
DIFFERENTIAL OIL

902258
SH M2.5x8

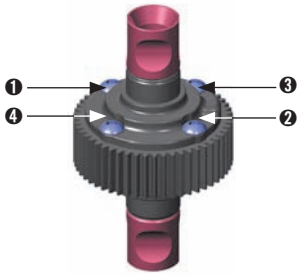
941014
BB 10x15x4



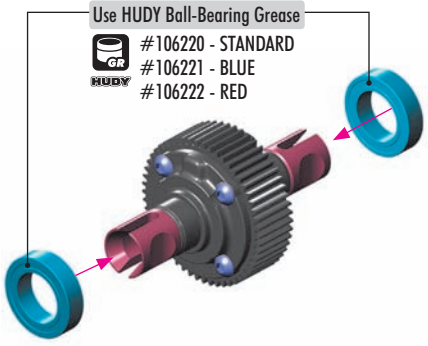
Tighten the screws equally but do NOT tighten them completely.

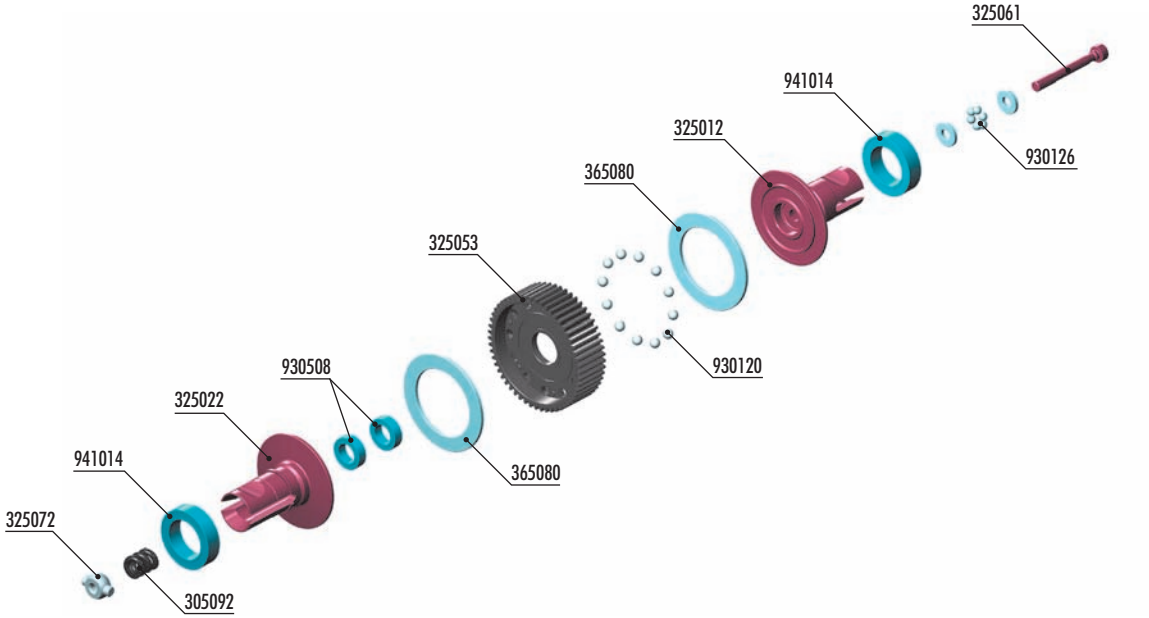


Finish tightening in this order.



Use HUDY Ball-Bearing Grease
#106220 - STANDARD
#106221 - BLUE
#106222 - RED

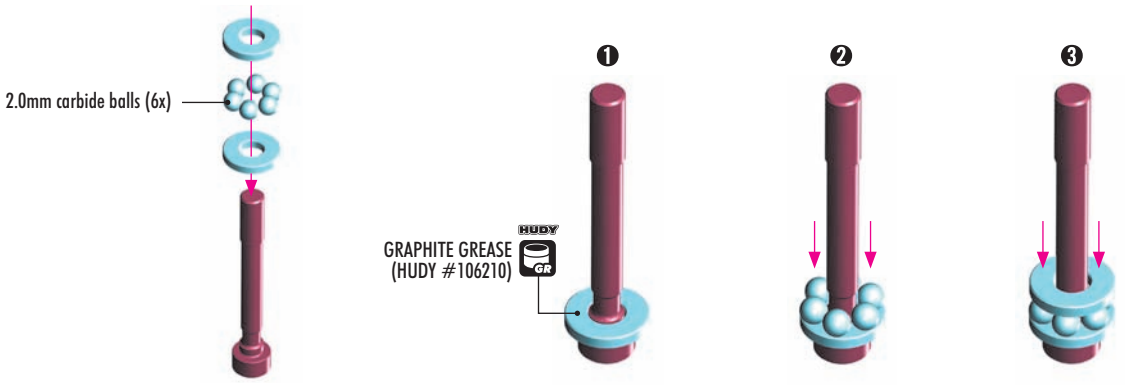




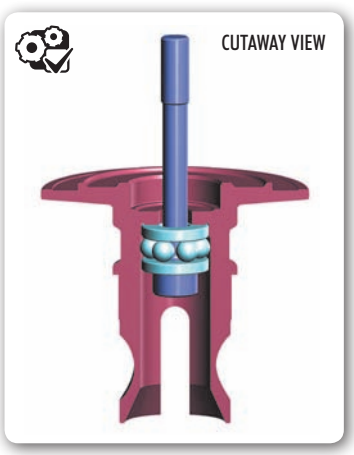
BAG 01

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)

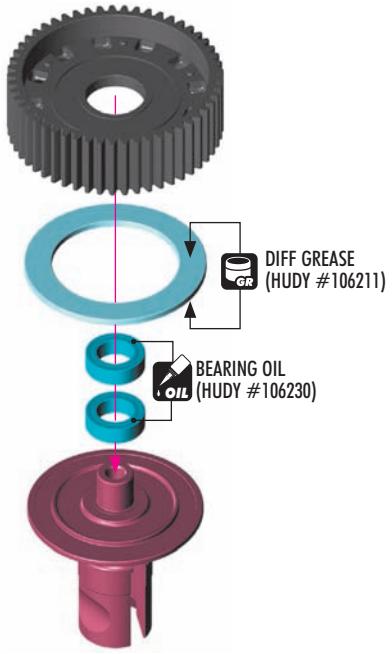
930126
BA 2.6x6x1

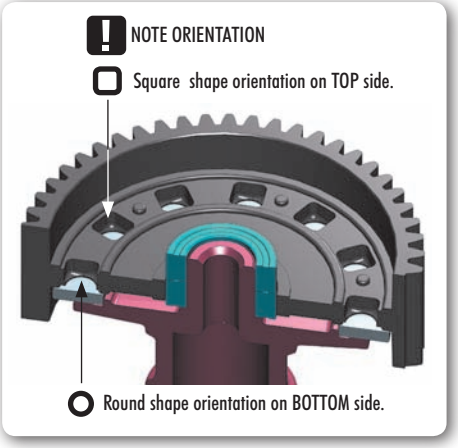




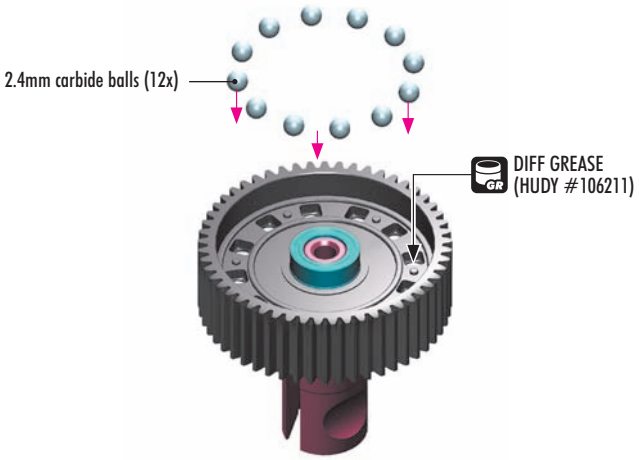


930508
BB 5x8x2.5

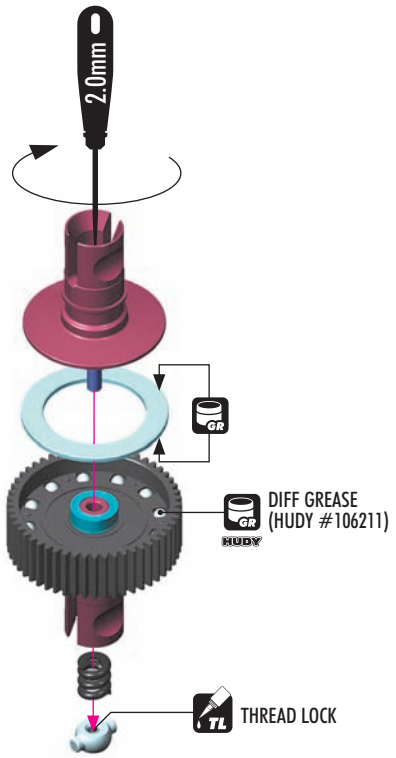


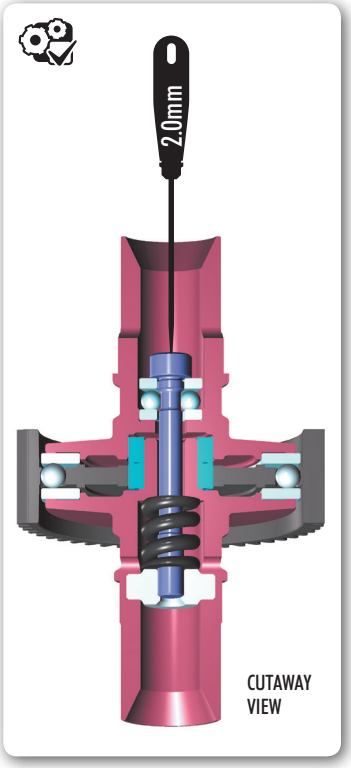


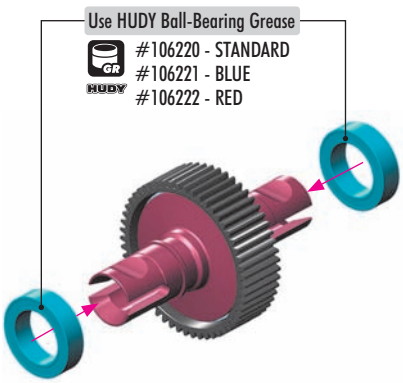
930120
B 2.4



941014
BB 10x15x4

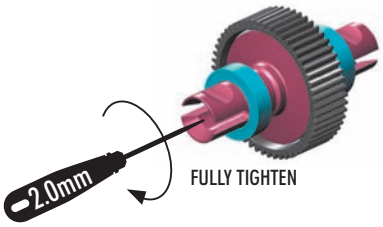




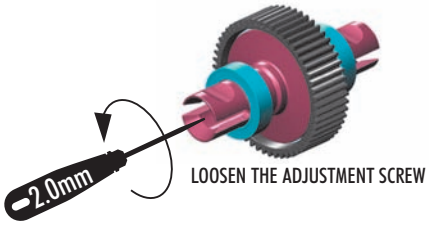


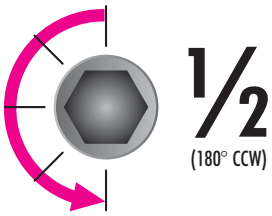
BEFORE RACING, follow these steps to properly break in the differential.

❶

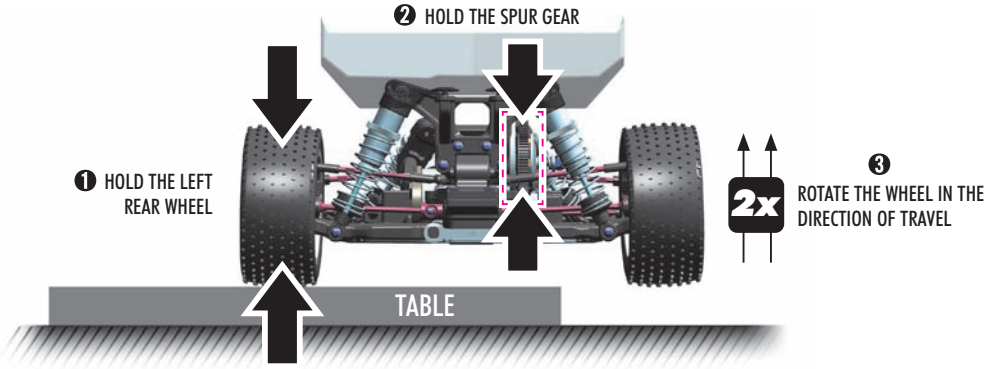


❷ Loosen the adjustment screw 1/2 turn (180° CCW).

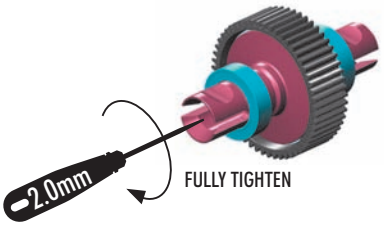




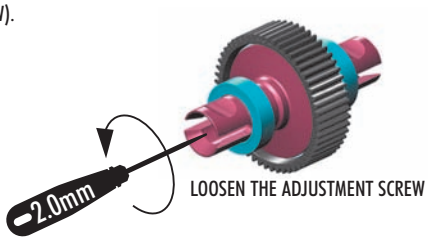
❸

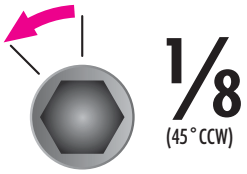


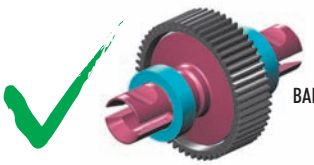
❹



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



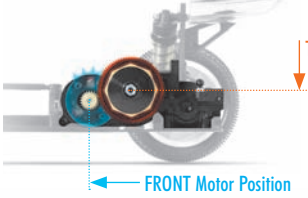


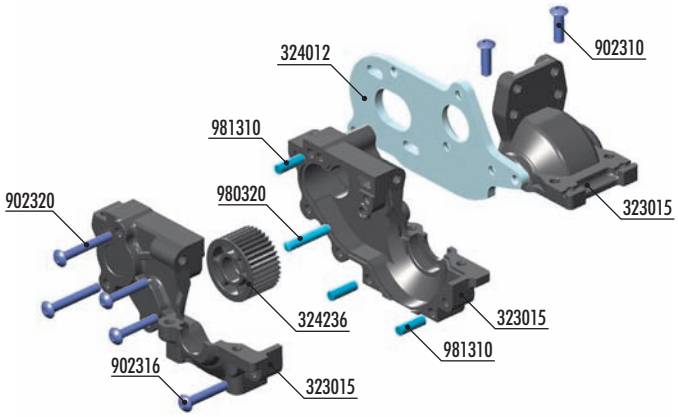


BAG 02

GEAR BOX
FRONT MOTOR POSITION

(For HIGH TRACTION track)



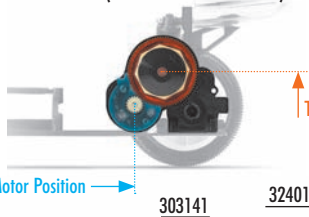


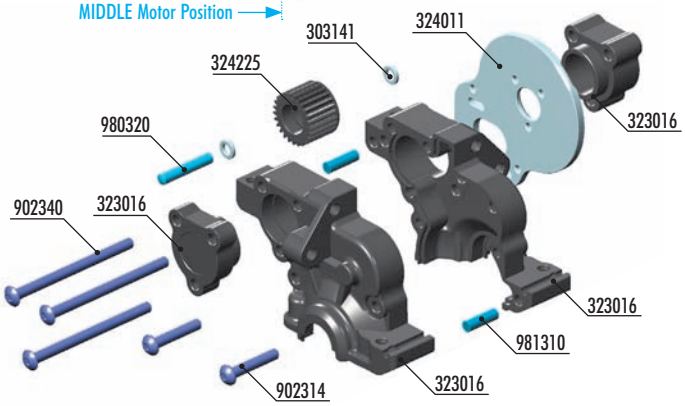
For Front motor Gear box assembly follow instructions on page 14 .

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



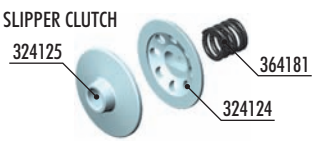
OPTION

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

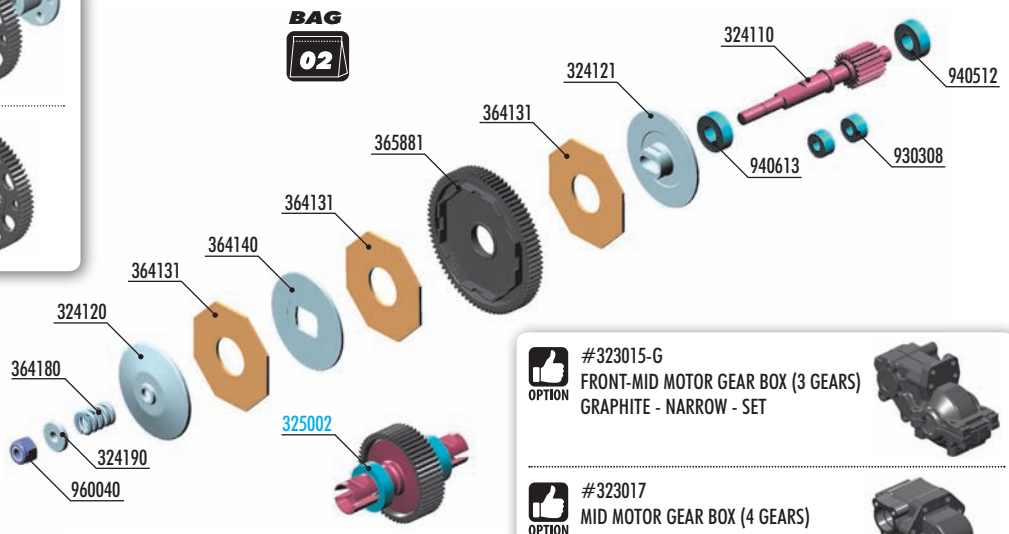


OPTION

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™

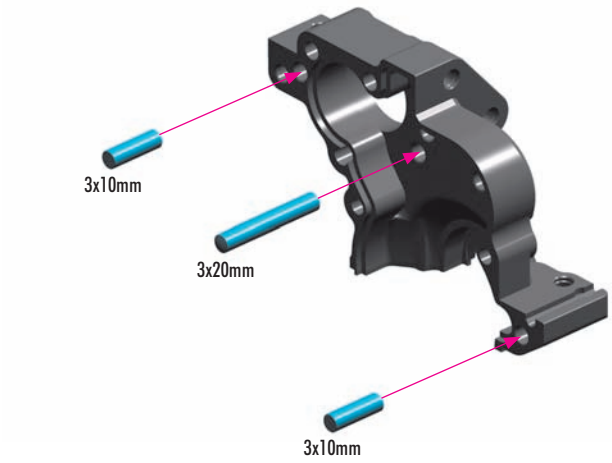
BAG 08

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)

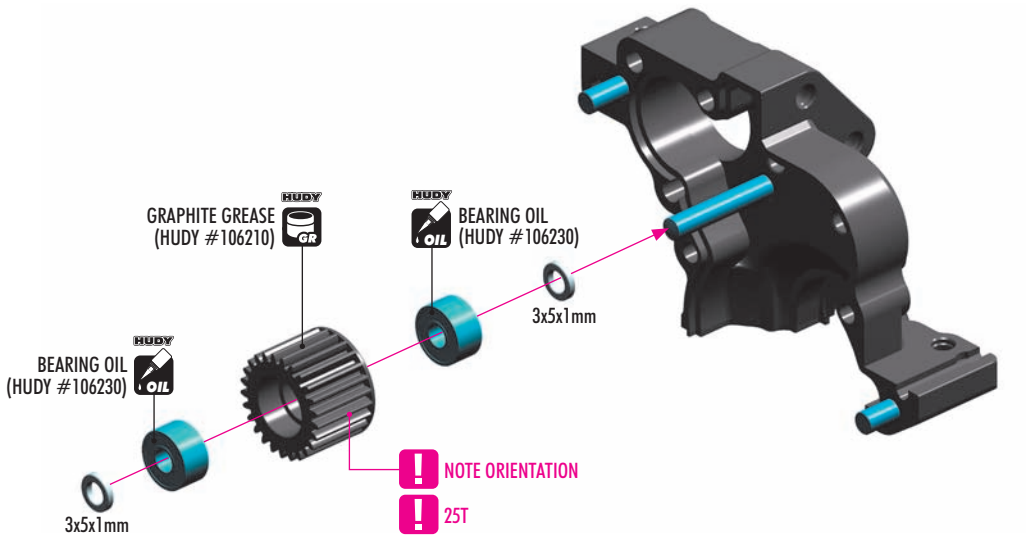

981310
P 3x10

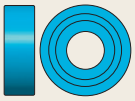

980320
P 3x20

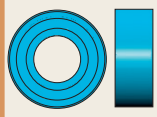



930308
BB 3x8x4

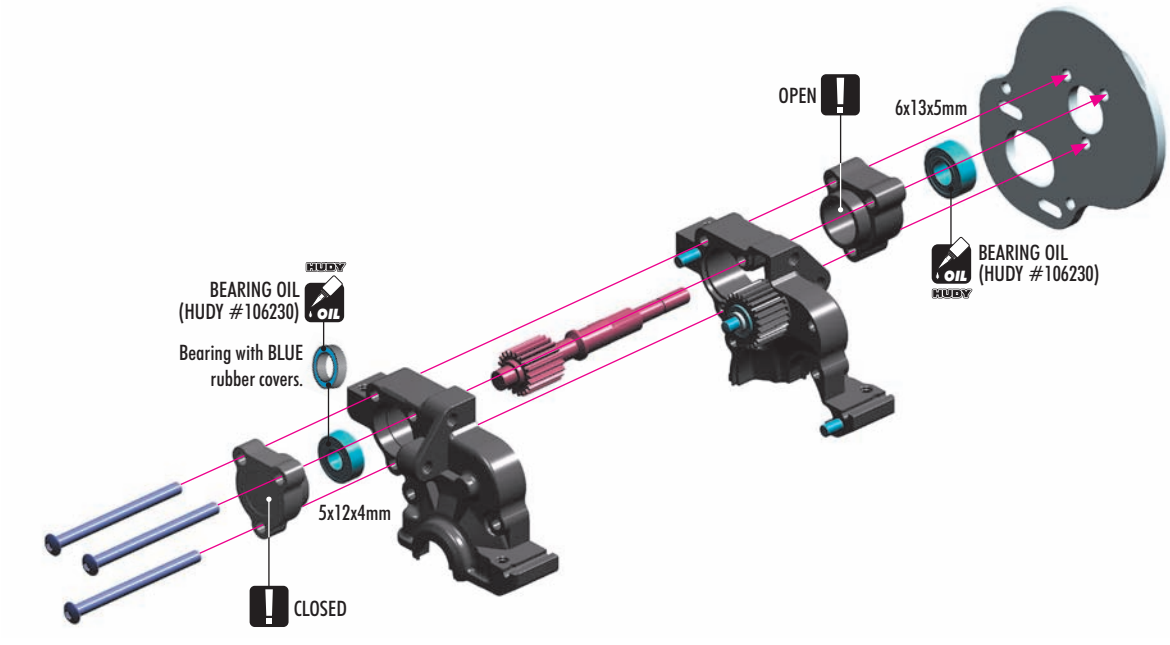

303141
SHIM 3x5x1




940512
BB 5x12x4

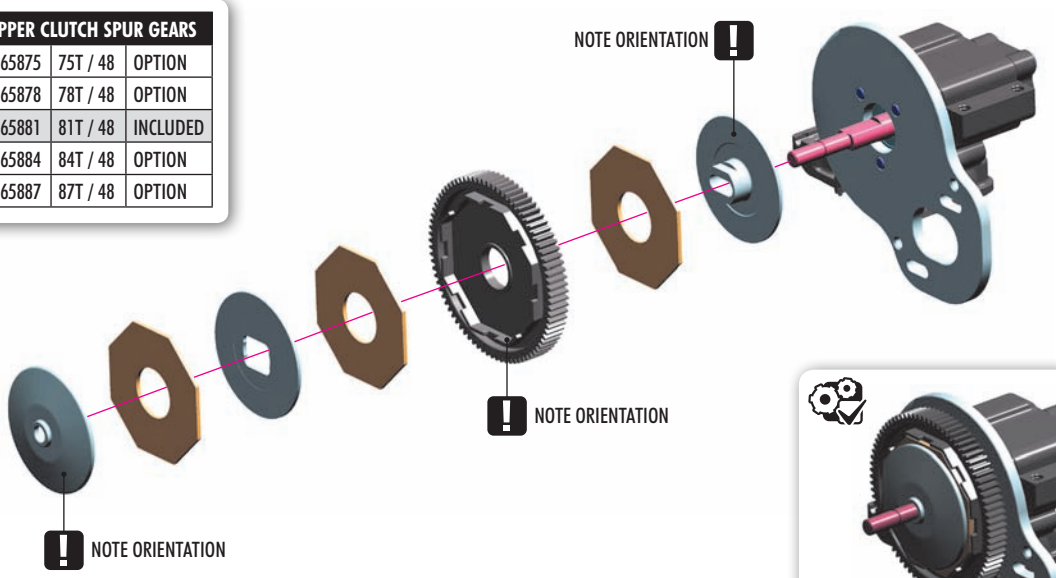

940613
BB 6x13x5

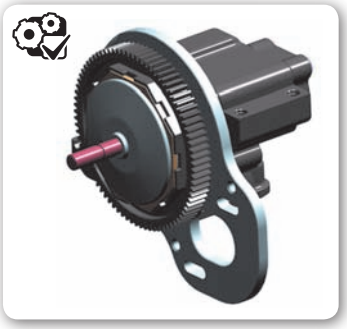

902340
SH M3x40



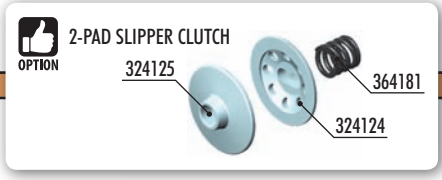
OPTION

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

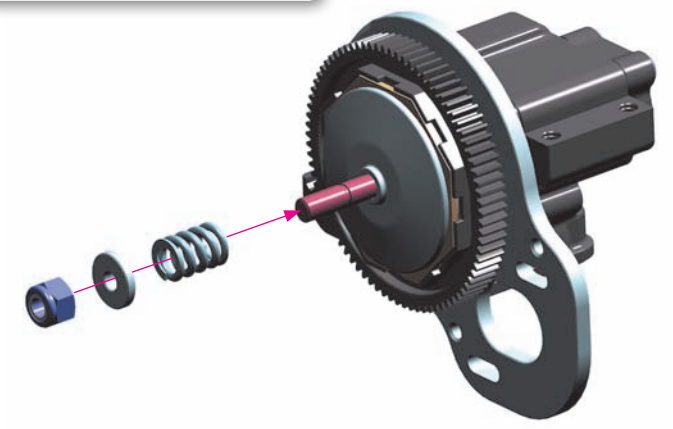


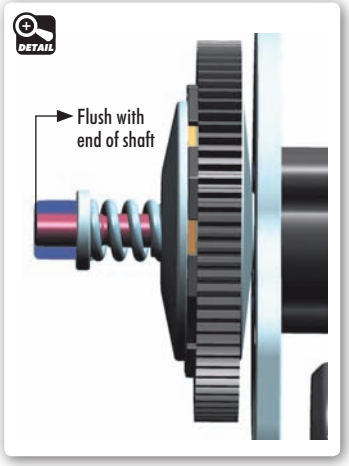


OPTION



960040
N M4

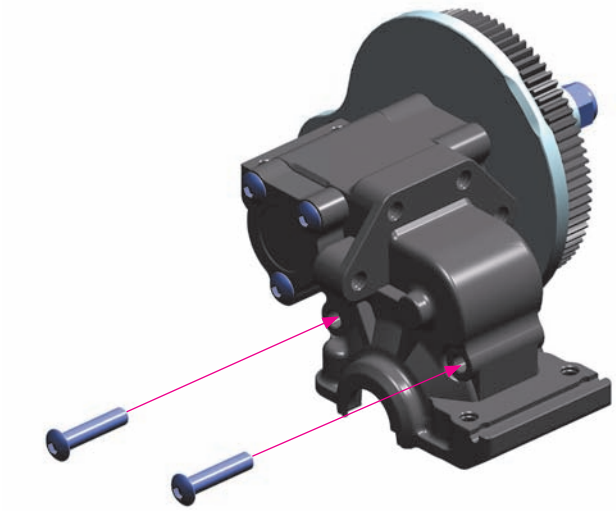




SET-UP BOOK
SLIPPER CLUTCH



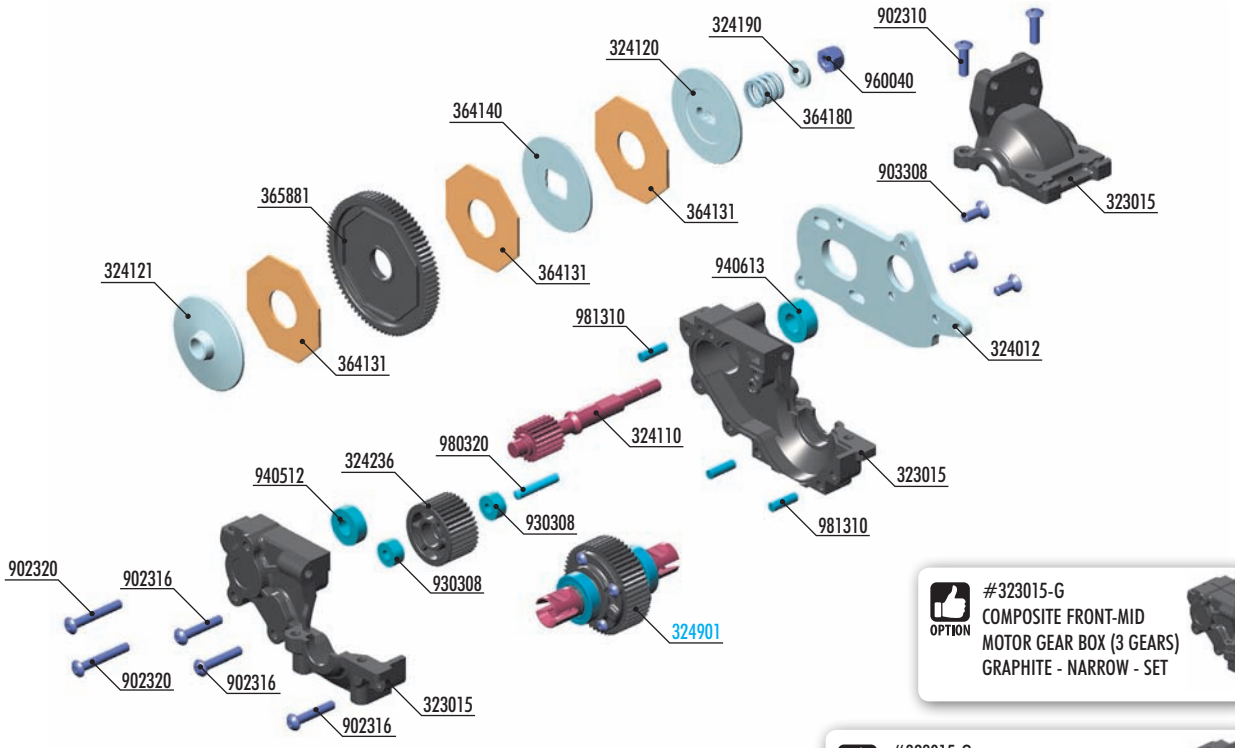
902314
SH M3x14



GEAR BOX

FRONT MOTOR POSITION

(For HIGH TRACTION track)



OPTION

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



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)



OPTION

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



OPTION

#325872
SLIPPER ELIMINATOR SPUR GEAR 72T / 48



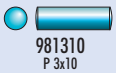
OPTION

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

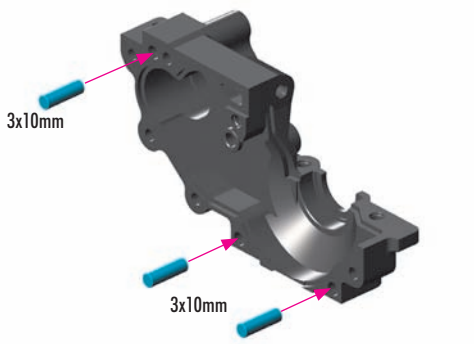
32 3015	COMPOSITE FRONT-MID MOTOR GEAR BOX (3 GEARS) - NARROW - SET
32 4012	ALU FRONT-MID MOTOR (3 GEARS) PLATE - SWISS 7075 T6
32 4110	ALU TOP SHAFT 20T - SWISS 7075 T6 - HARD COATED
32 4120	ALU 3-PAD SLIPPER CLUTCH PLATE - SWISS 7075 T6
32 4121	ALU 3-PAD SLIPPER CLUTCH PLATE WITH ADAPTER
32 4190	ALU 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

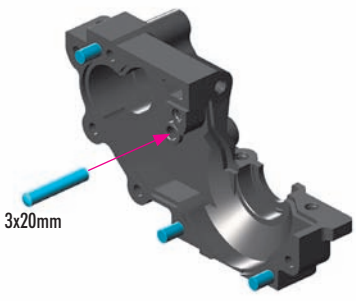


981310
P 3x10

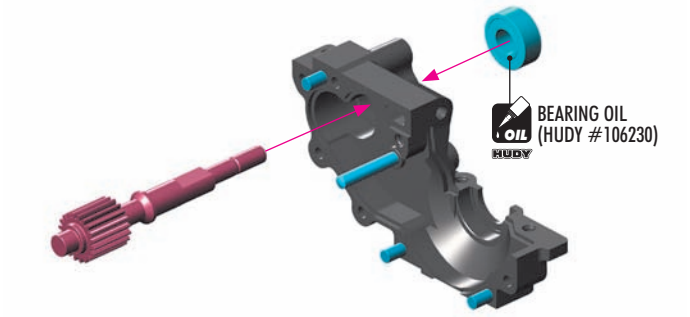


980320
P 3x20

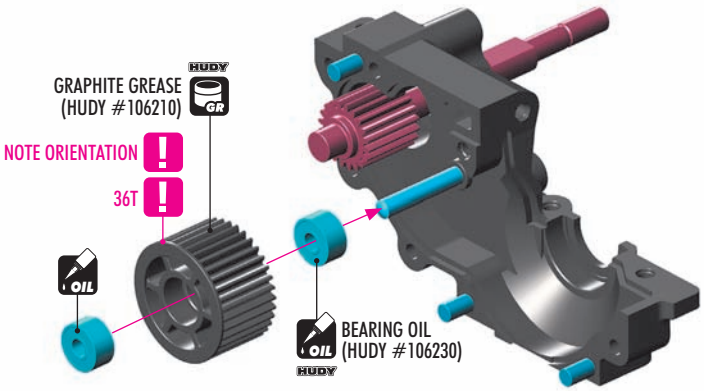


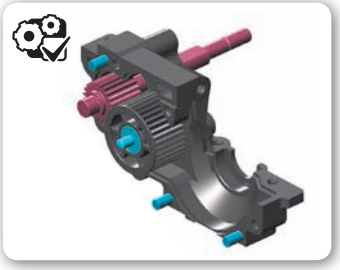


940613
BB 6x13x5



930308
BB 3x8x4

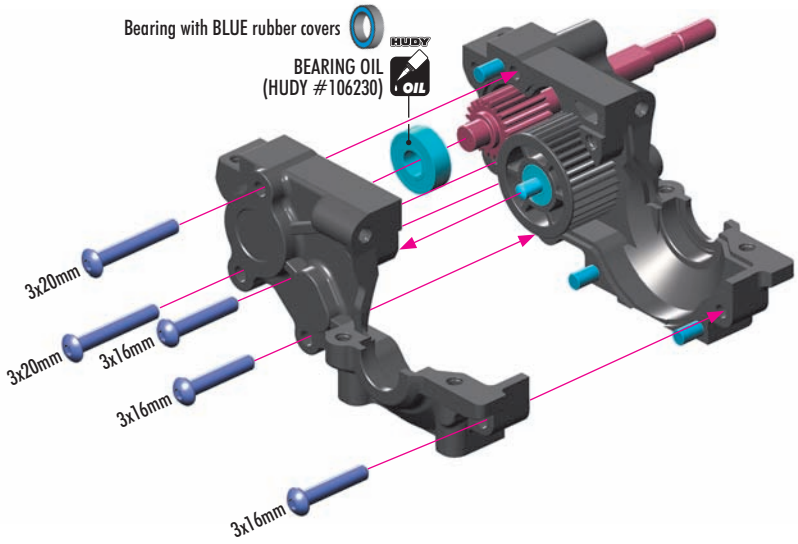




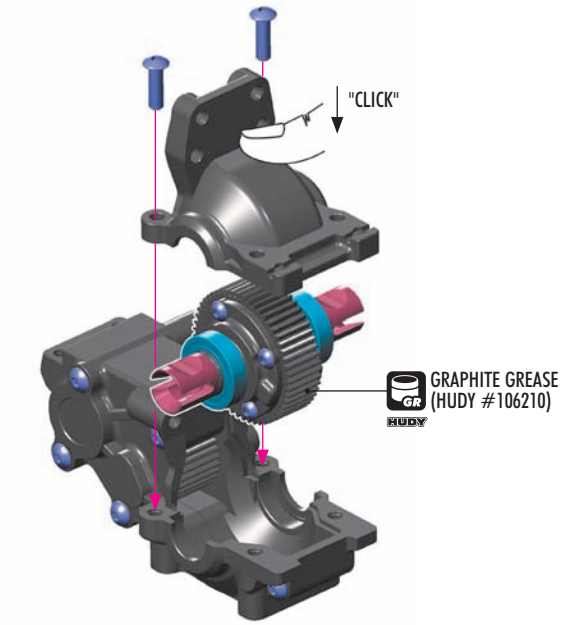
902316
SH M3x16

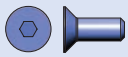
902320
SH M3x20

940512
BB 5x12x4

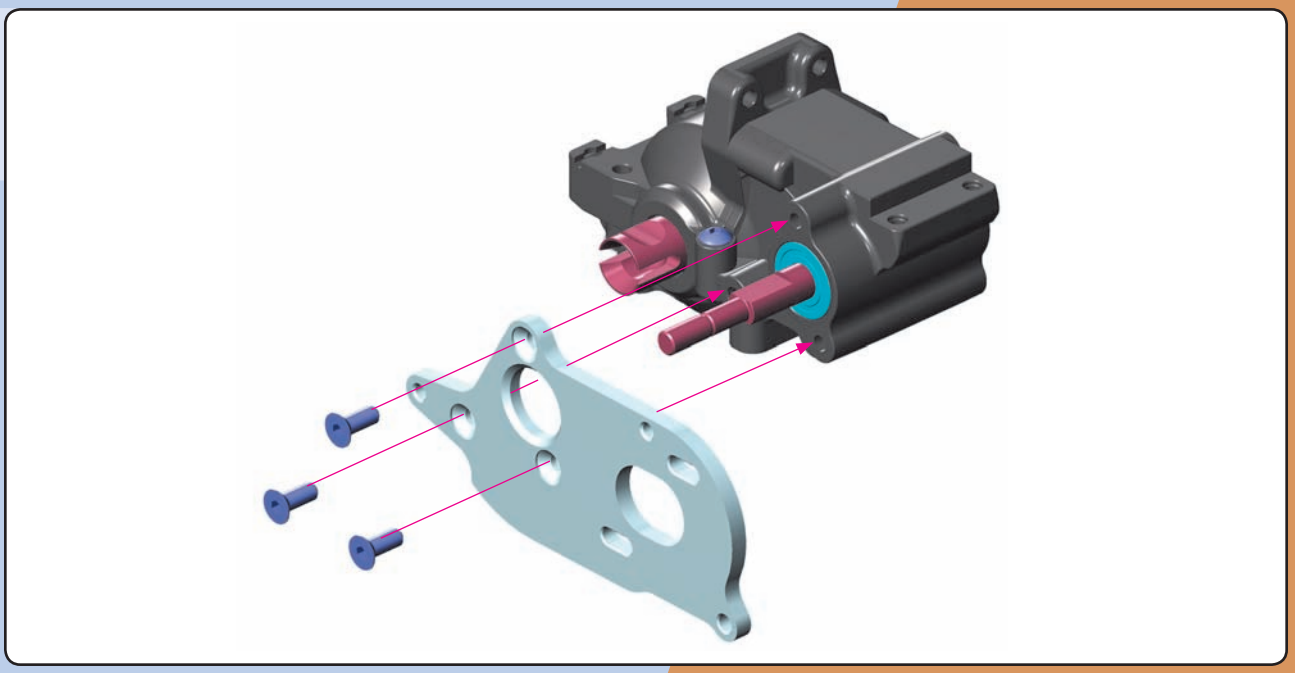


902310
SH M3x10





903308
SFH M3x8



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



OPTION #325872
SLIPPER ELIMINATOR
SPUR GEAR 72T / 48

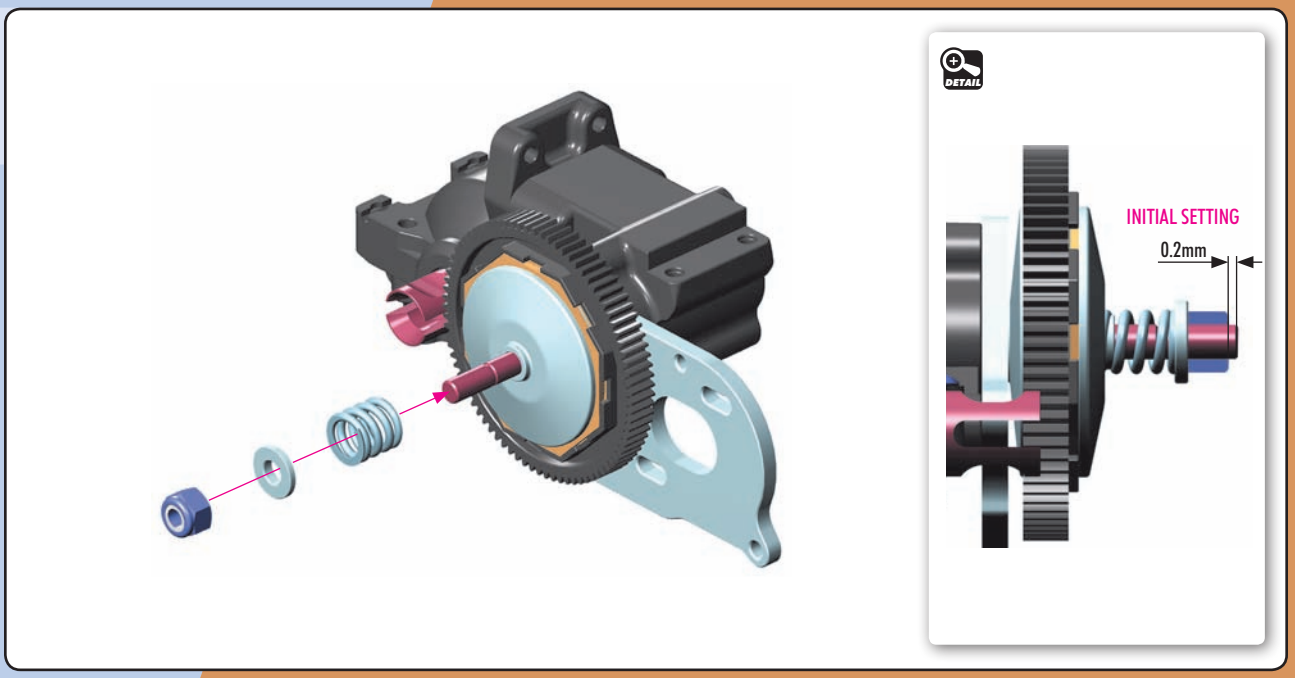


OPTION

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



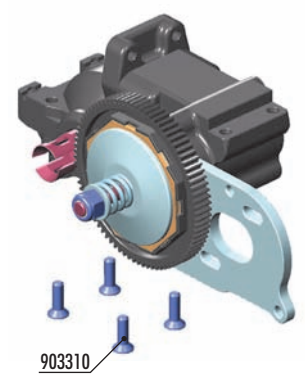
960040
N M4



DETAIL

BAG 03

GEAR BOX
FRONT MOTOR POSITION
(For HIGH TRACTION track)



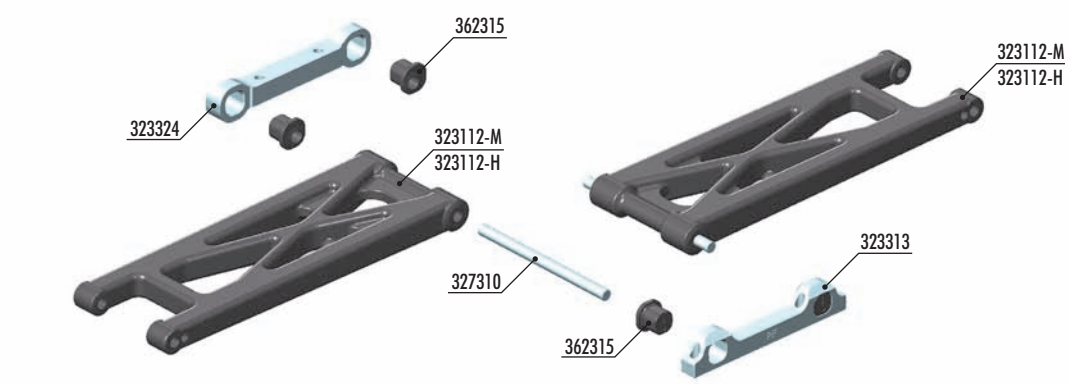
For Front motor Gear box assembly follow instructions on page 19 / step 1.

BAG 08

GEAR BOX
MIDDLE MOTOR POSITION
(For LOW TRACTION track)



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



OPTION

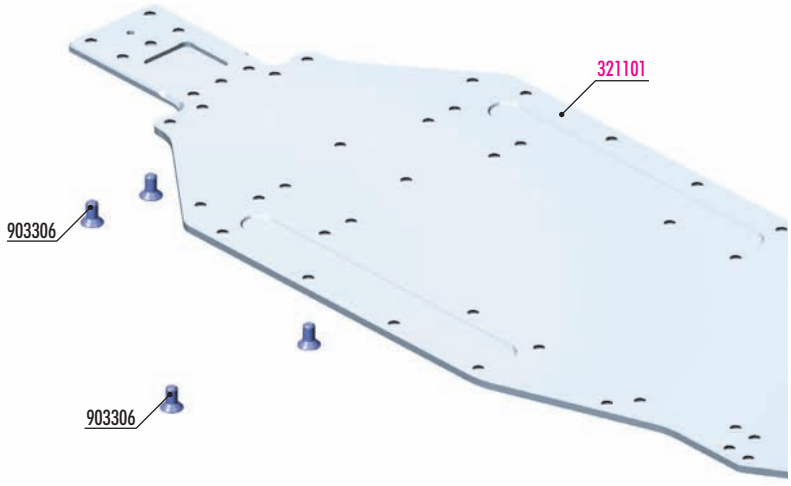
NARROW REAR SUSPENSION HOLDERS			
#323312	BRASS	RF	OPTION
#323313	ALU	RF	INCLUDED
#323323	BRASS	RR	OPTION
#323324	ALU	RR	INCLUDED



OPTION

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





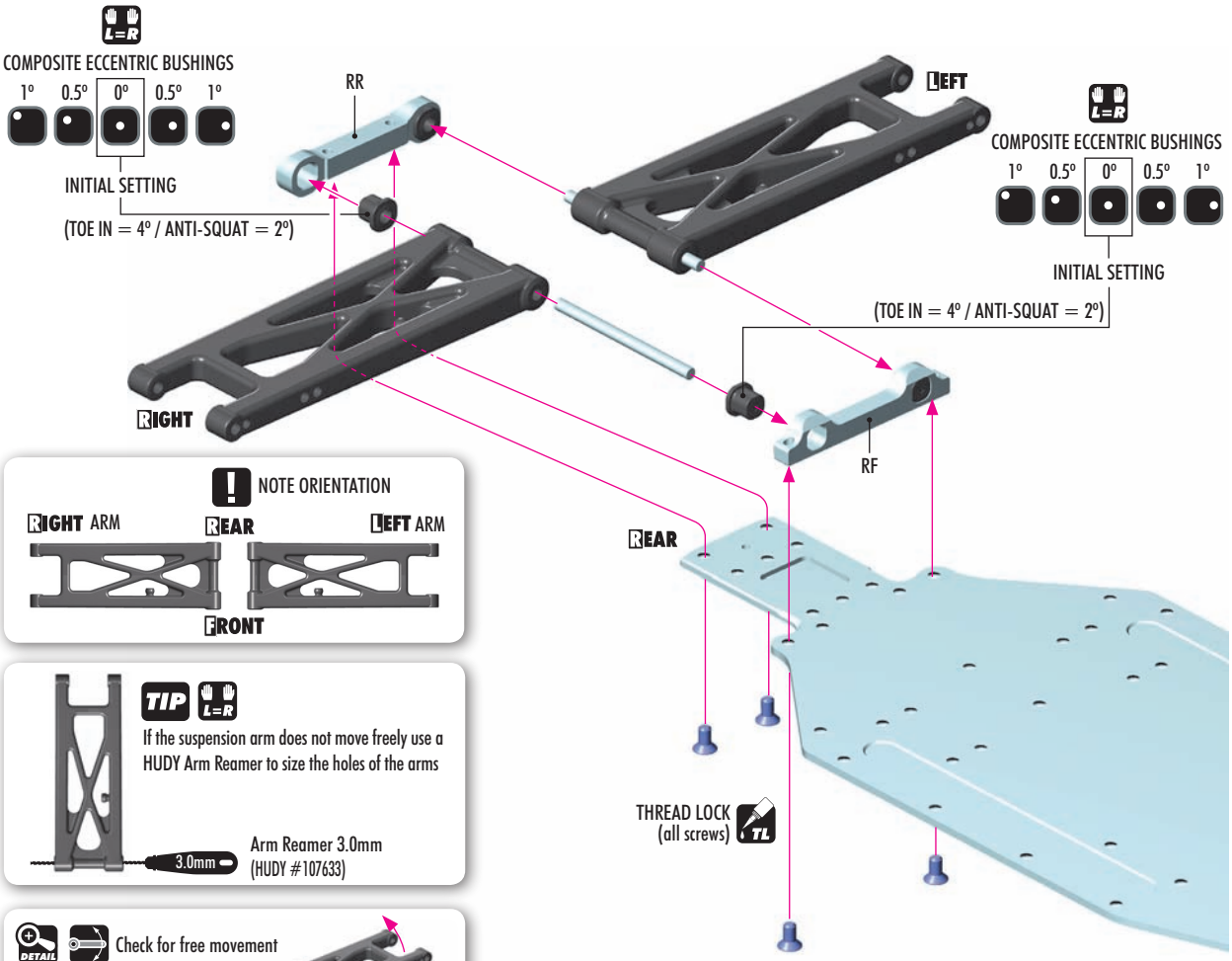
BAG 03

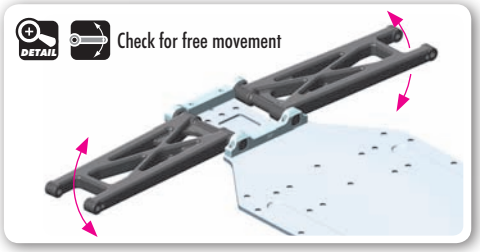
32 3112-M	COMPOSITE SUSPENSION ARM REAR LOWER RIGHT - MEDIUM	90 3306	HEX SCREW SFH M3x6 (10)
32 3112-H	COMPOSITE SUSPENSION ARM REAR LOWER RIGHT - HARD	90 3310	HEX SCREW SFH M3x10 (10)
32 3313	ALU REAR LOWER SUSP. HOLDER - NARROW - FRONT - 7075 T6 (5MM)		
32 3324	ALU REAR LOWER SUSP. HOLDER - NARROW - REAR - 7075 T6 (5MM)	32 1101	XT2 ALU CHASSIS - SWISS 7075 T6 (2MM)
32 7310	REAR SUSPENSION PIVOT PIN (2)		
36 2315	ECCENTRIC BUSHING SET (2)		

BAG 08

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

903306
SFH M3x6



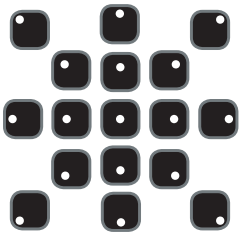


ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE CENTER.

Middle position = 0.5° or 0.375mm from center.

Outer position = 1° or 0.75mm from center.

All possible mounting alternatives of eccentric bushings



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

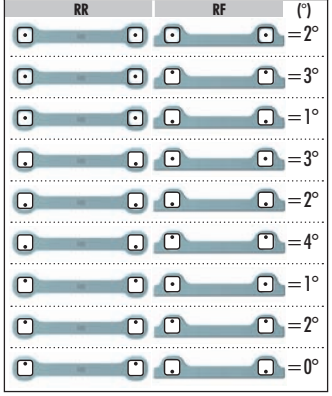


MEDIUM - For very-low & low traction
HARD - For medium & high traction
GRAPHITE - For high & very-high traction

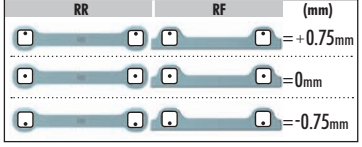
SET-UP BOOK
TOE-IN
ANTI-SQUAT
ROLL CENTER
TRACK-WIDTH

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).

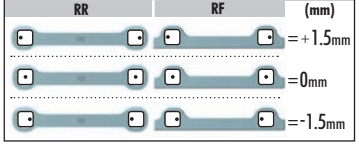
ANTI-SQUAT



ROLL CENTER

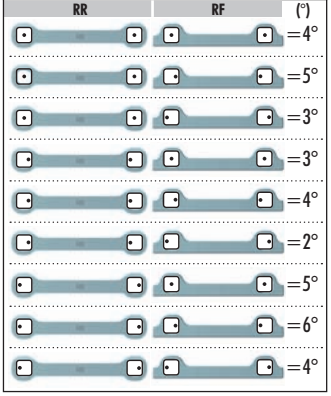


TRACK-WIDTH



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

TOE-IN



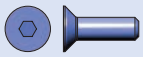
The tables describe the amounts of adjustment using the center and outside positions of the eccentric bushings. The middle position eccentric bushings allow for finer adjustment increments.

Example:

0(RR) - 0 (RF) = 2°  = 2°

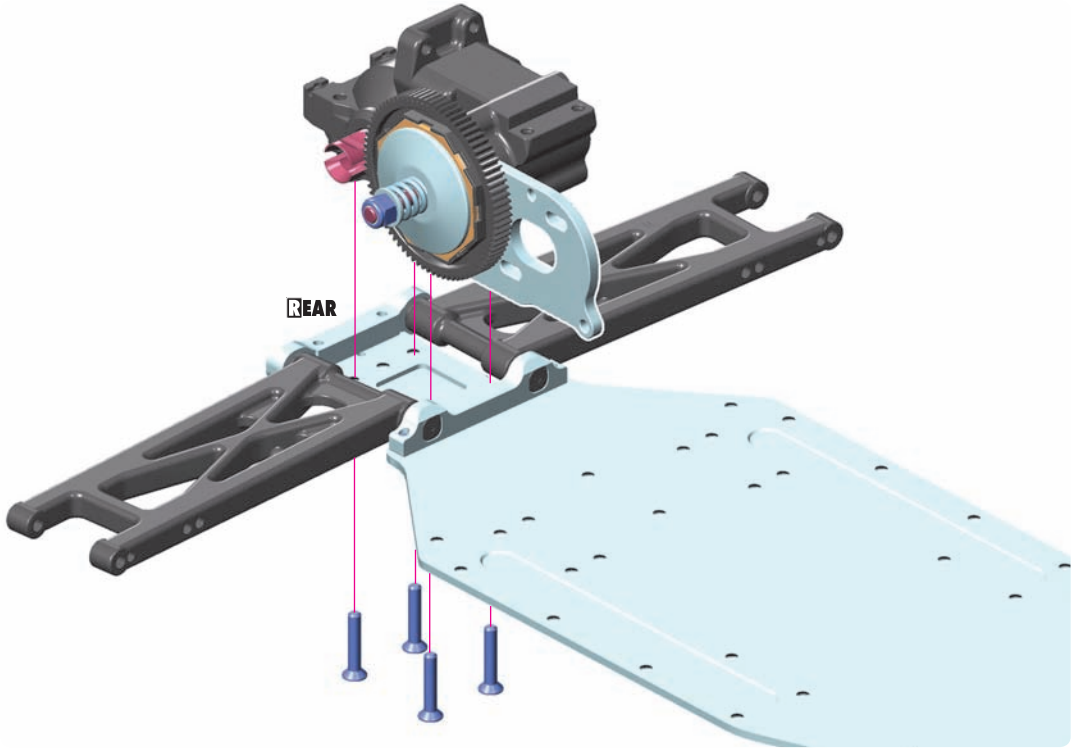
0(RR) - 0.5 (RF) = 2.5°  = 2.5°

0(RR) - 1 (RF) = 3°  = 3°



903310
SFH M3x10

GEAR BOX
FRONT MOTOR POSITION
(For HIGH TRACTION track)



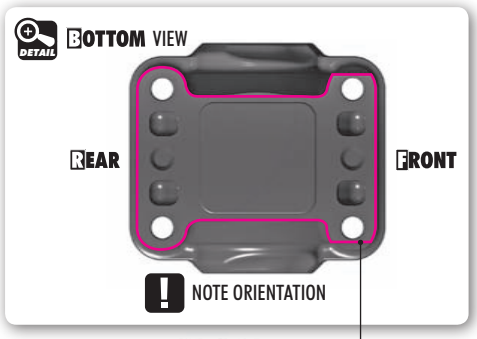


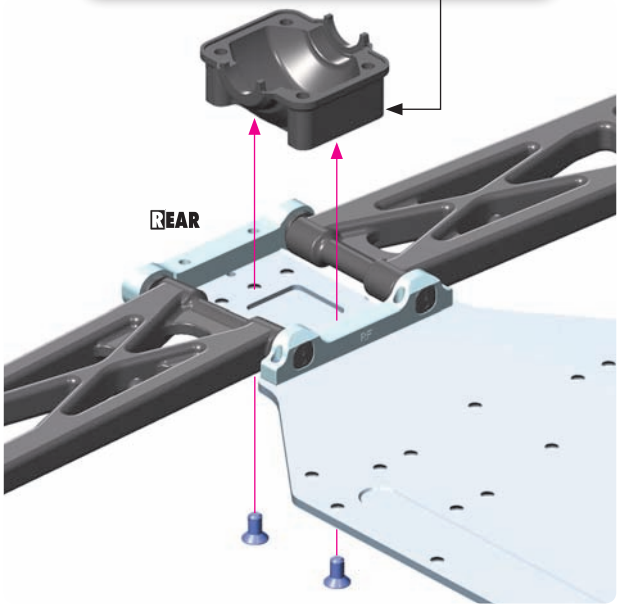
903306
SFH M3x6

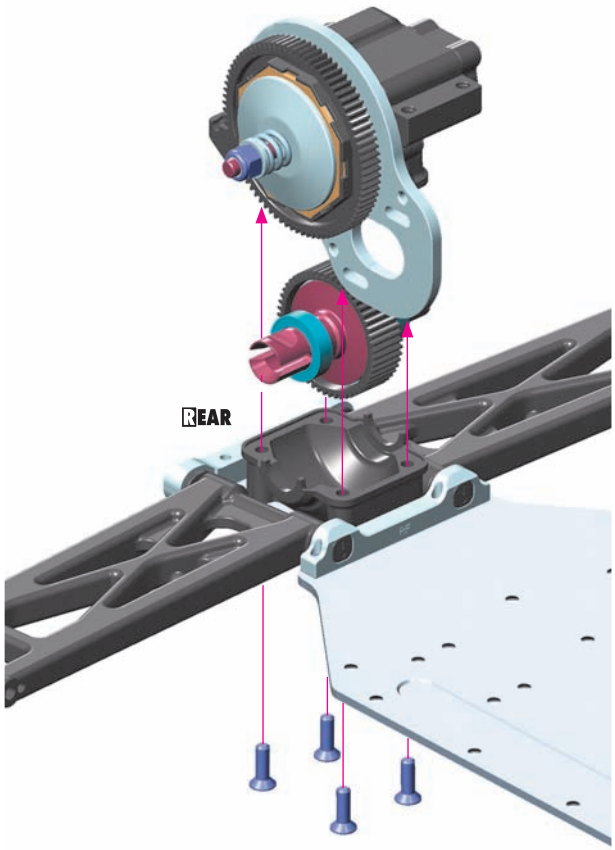


903322
SFH M3x22

GEAR BOX
MIDDLE MOTOR POSITION
(For LOW TRACTION track)

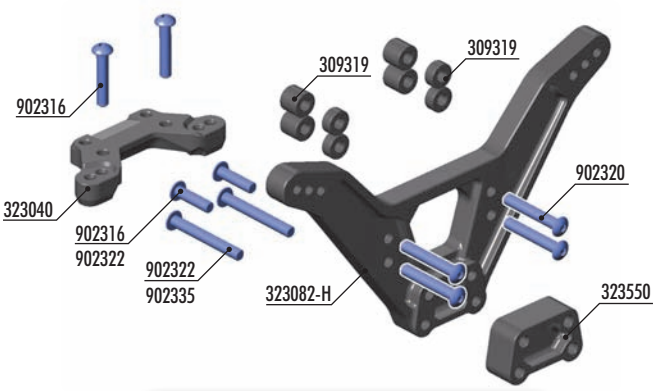






BAG 03

GEAR BOX
FRONT MOTOR POSITION
(For HIGH TRACTION track)



OPTION

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



BAG 08

GEAR BOX
MIDDLE MOTOR POSITION
(For LOW TRACTION track)

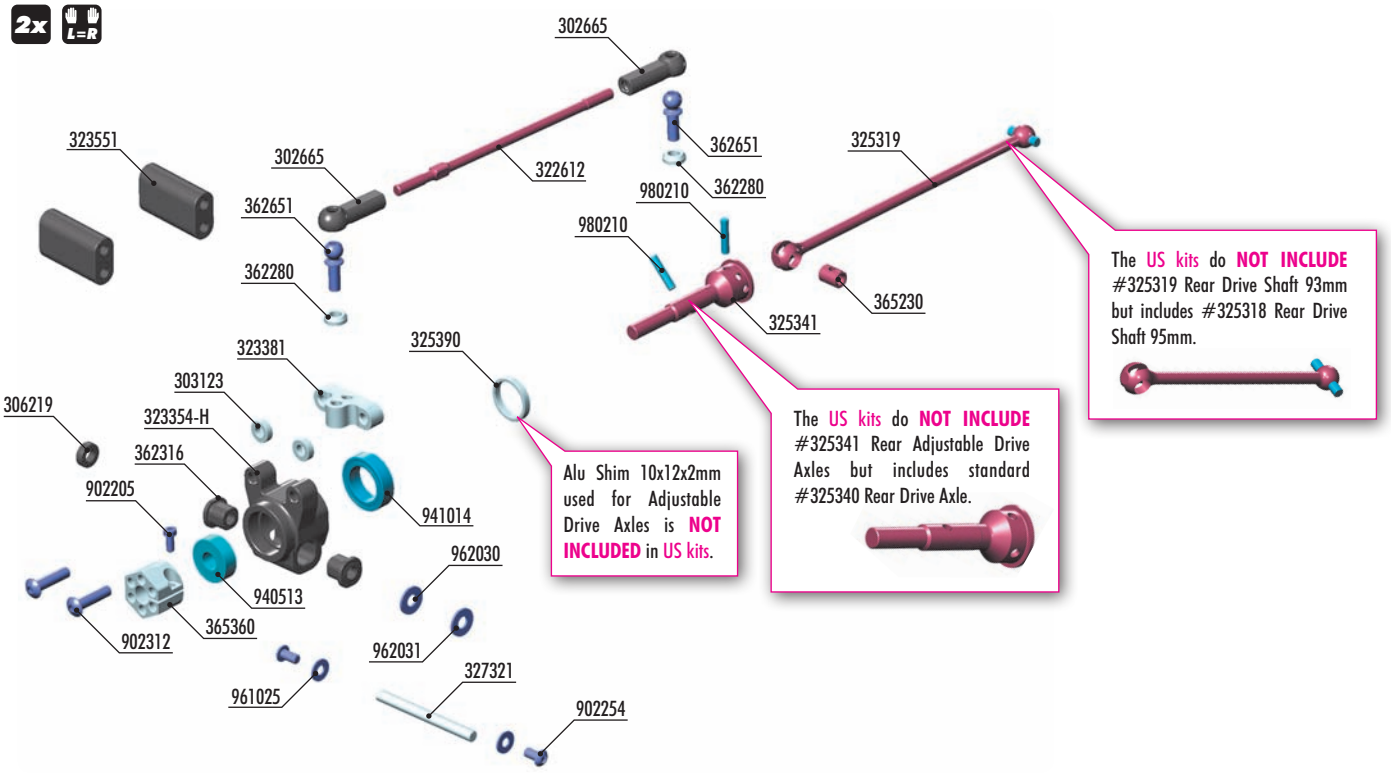


OPTION

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



2x L=R



BAG 03

30 2665	COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)	36 5230	DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
30 3123	ALU SHIM 3x6x2.0MM (10)	36 5360	ALU WHEEL HUB 12MM - OFFSET "+3.0MM" (2)
30 6219	COMPOSITE SET OF SERVO SHIMS (4)		
30 9319	UNIVERSAL SET OF PLASTIC SHIMS	90 2205	HEX SCREW SH M2x5 (10)
32 2612	ADJUSTABLE TURNBUCKLE 75MM M3 L/R - HUDY SPRING STEEL™ (2)	90 2254	HEX SCREW SH M2.5x4 (10)
32 3040	COMPOSITE REAR ROLL CENTER HOLDER - CARPET EDITION	90 2312	HEX SCREW SH M3x12 (10)
32 3082-H	XT2 COMPOSITE SHOCK TOWER REAR - HARD	90 2316	HEX SCREW SH M3x16 (10)
32 3354-H	COMPOSITE UPRIGHT REAR - HARD	90 2320	HEX SCREW SH M3x20 (10)
32 3381	ALU REAR HUB PLATE - SWISS 7075 T6	90 2322	HEX SCREW SH M3x22 (10)
32 3550	COMPOSITE REAR SHOCK TOWER ADJUSTING SHIM	90 2335	HEX SCREW SH M3x35 (10)
32 3551	XT2 COMPOSITE REAR BODY MOUNT (2)	94 0513	BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2)
32 5319	REAR DRIVE SHAFT 93MM - HUDY SPRING STEEL™	94 1014	BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)
32 5341	REAR DRIVE AXLE LB - HUDY SPRING STEEL™	96 1025	WASHER S 2.5 (10)
32 5390	ALU SHIM 10x12x2MM (2)	96 2030	WASHER S 3x6x0.3 (10)
32 7321	REAR ARM PIVOT PIN (2)	96 2031	WASHER S 3x6x0.1 (10)
36 2280	ALU CONICAL SHIM 3x6x2.0MM (10)	98 0210	PIN 2x9.8 (10)
36 2316	ECCENTRIC BUSHING SET - OPEN (2)		
36 2651	BALL END 4.9MM WITH THREAD 8MM (2)		

BAG 08

32 3042-M	COMPOSITE REAR ROLL-CENTER HOLDER - DIRT EDITION - MEDIUM	90 2310	HEX SCREW SH M3x10 (10)
32 3083	XT2 GRAPHITE SHOCK TOWER REAR 4.0MM	90 2312	HEX SCREW SH M3x12 (10)
32 3552	XT2 GRAPHITE REAR SHOCK TOWER EXTENSION 4.0MM (2)	90 2318	HEX SCREW SH M3x18 (10)

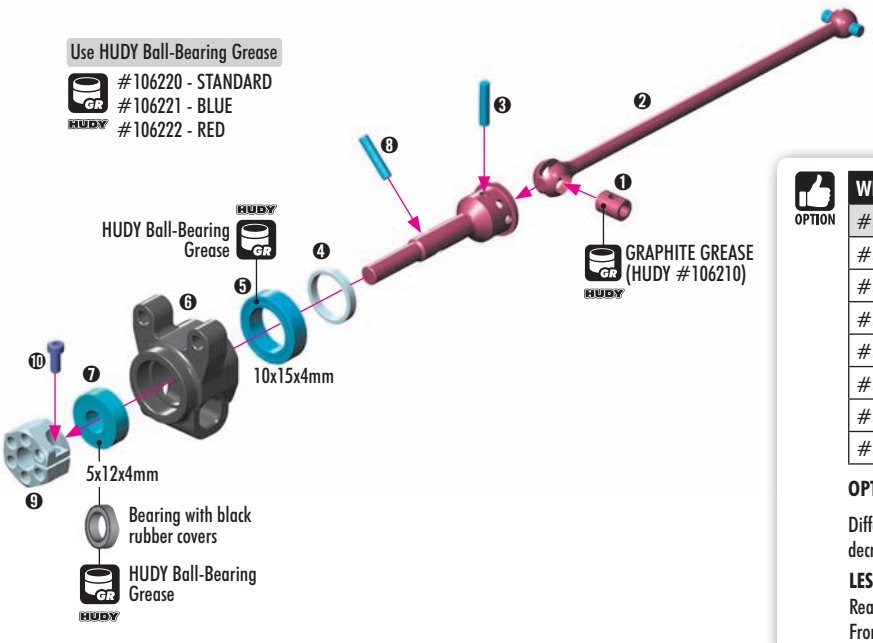
902205
SH M2x5

940513
BB 5x12x4

941014
BB 10x15x4

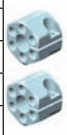
980210
P 2x10

2x L=R



OPTION

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



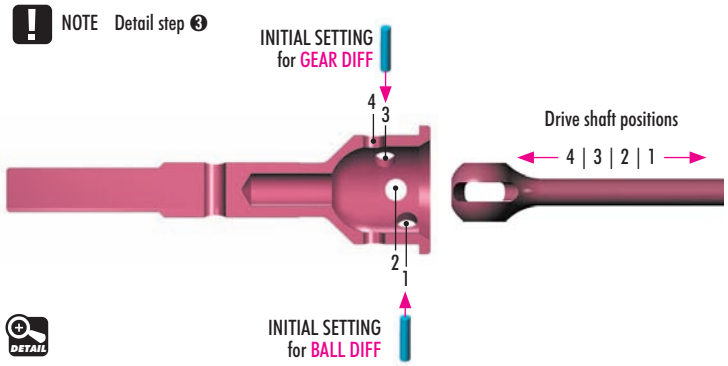
OPTIONAL HEX HUB EFFECTS

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

LESS OFFSET
Rear - more traction
Front - more steering

MORE OFFSET
Rear - less traction
Front - less steering

NOTE Detail step ❸



OPTION

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



OPTION

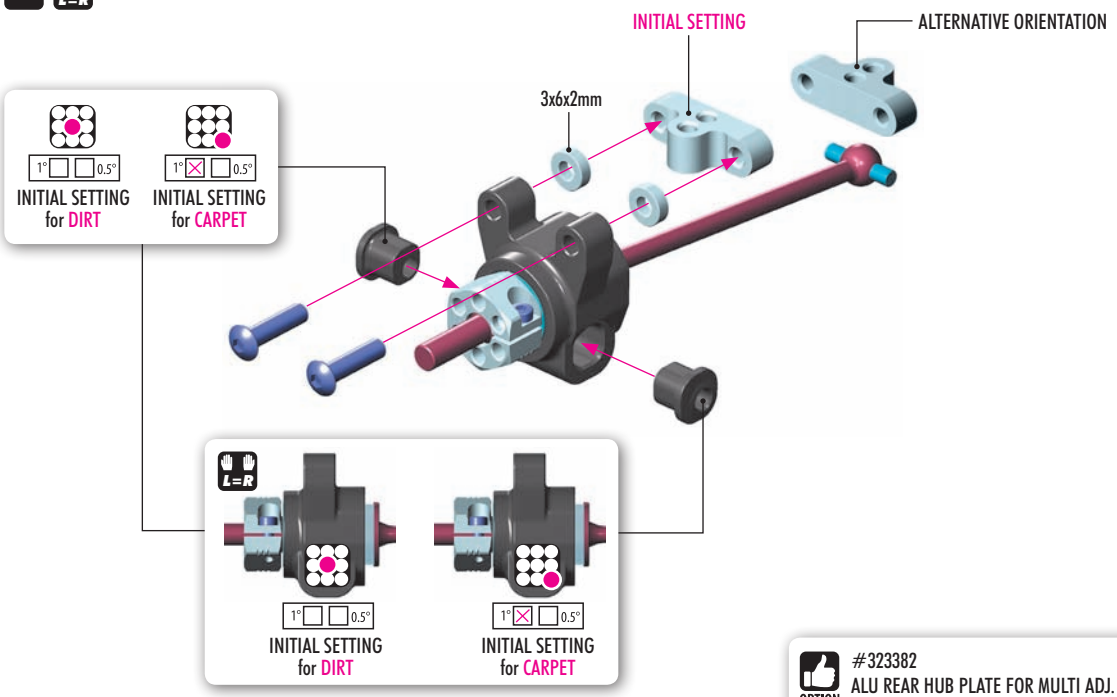
REAR UPRIGHTS		
#323354-H	HARD	INCLUDED
#323354-G	GRAPHITE	OPTION
#323355	ALU	OPTION



303123
SHIM 3x6x2

902312
SH M3x12

2x L=R



OPTION

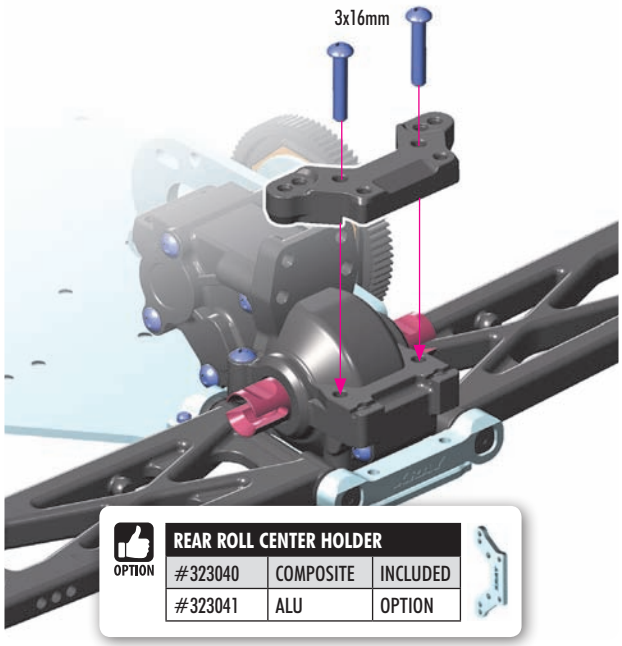
#323382
ALU REAR HUB PLATE FOR MULTI ADJ. UPRIGHT - 1-HOLE - SWISS 7075 T6



902316
SH M3x16

902312
SH M3x12

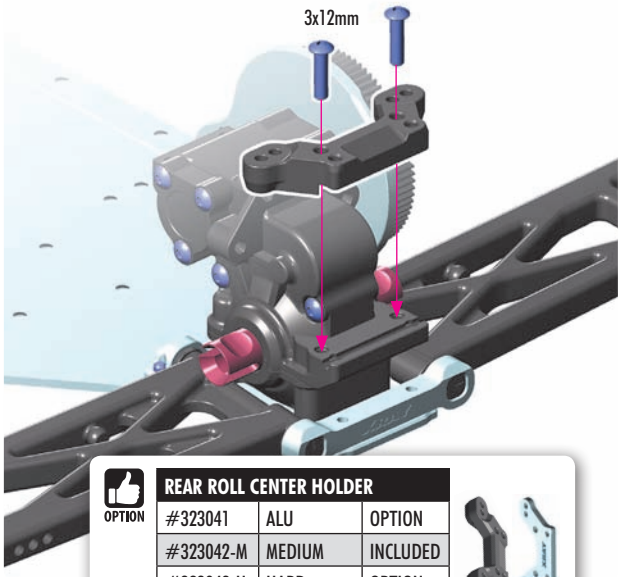
GEAR BOX
FRONT MOTOR POSITION
(For HIGH TRACTION track)



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

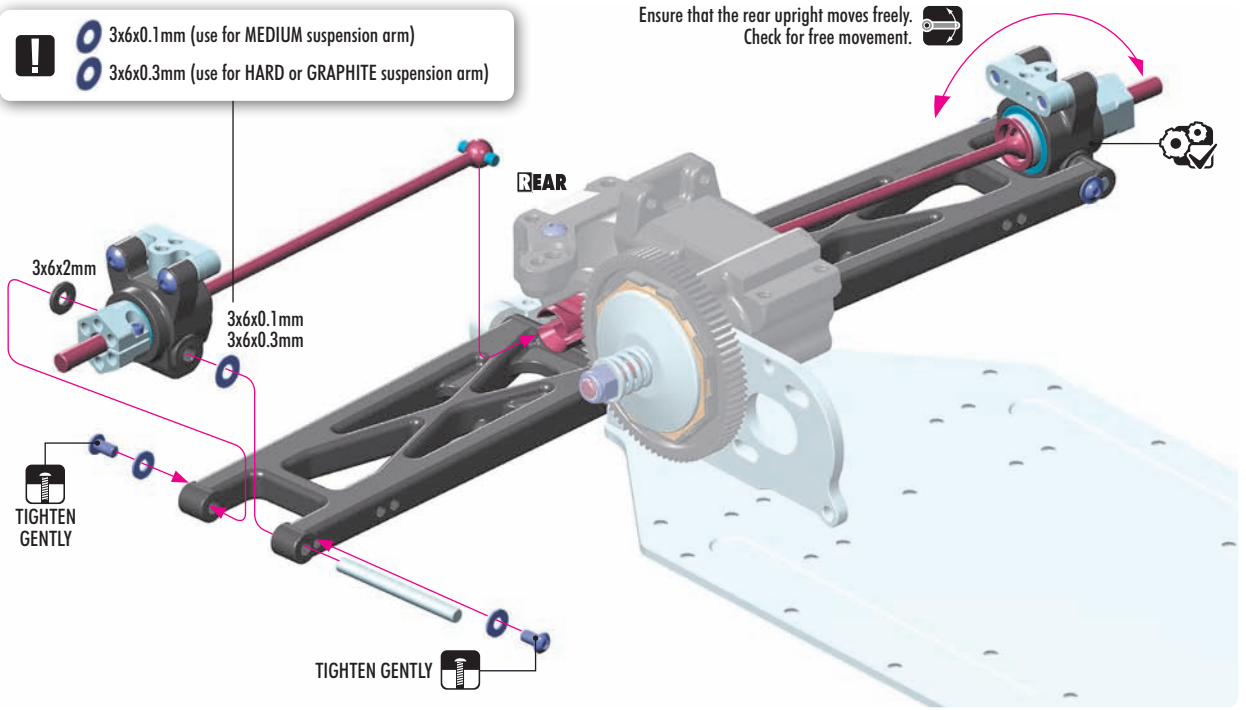
961025
S 2.5

962030
S 3x6x0.3

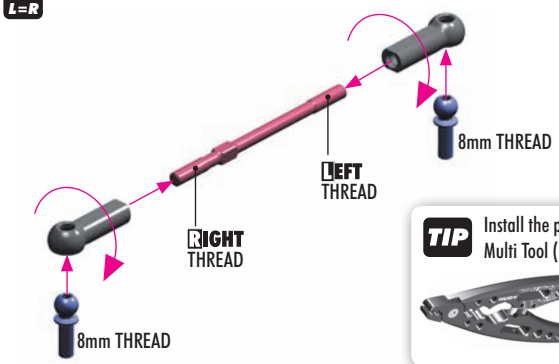
962031
S 3x6x0.1

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

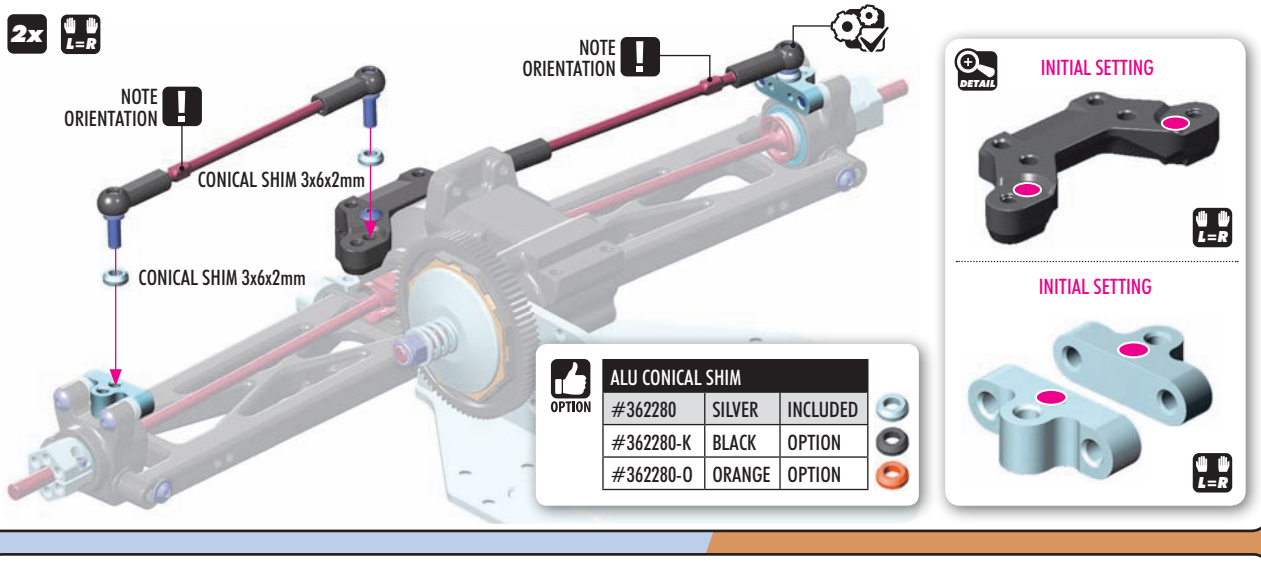




TIP Install the pivot balls with Professional Multi Tool (HUDY #183011)



362280
CON. SHIM 3x6x2



OPTION

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

902310
SH M3x10

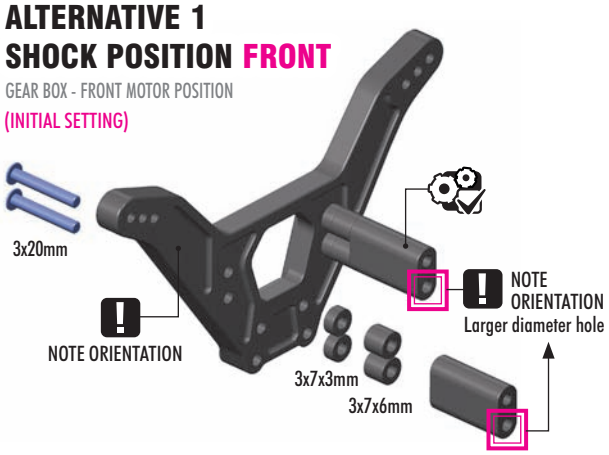
902320
SH M3x20

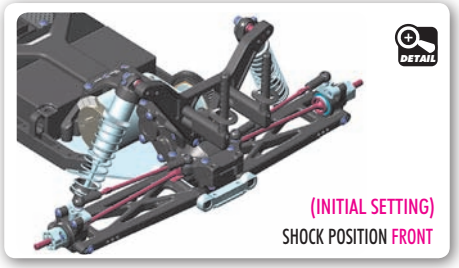
309319
SHIM 3x7x3

309319
SHIM 3x7x6

ALTERNATIVE 1
SHOCK POSITION FRONT

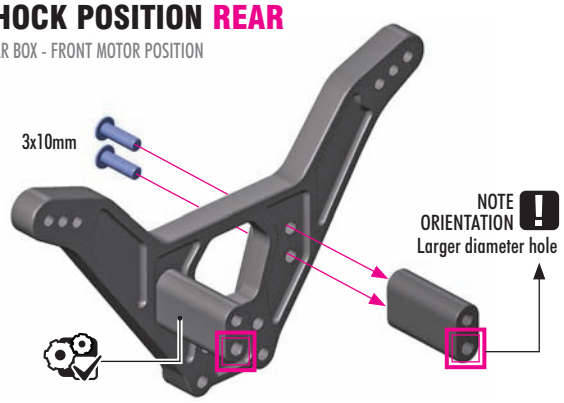
GEAR BOX - FRONT MOTOR POSITION
(INITIAL SETTING)

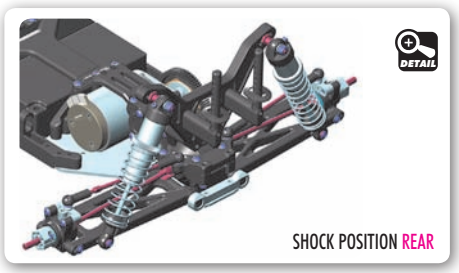




ALTERNATIVE 2
SHOCK POSITION REAR

GEAR BOX - FRONT MOTOR POSITION

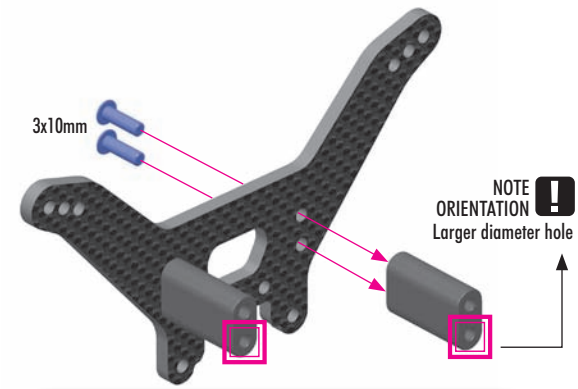


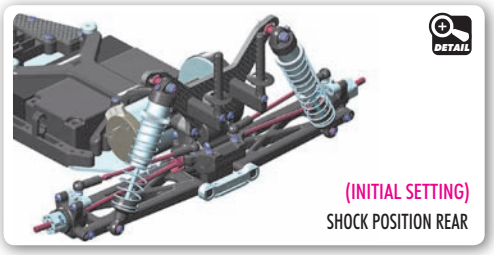


902310
SH M3x10

SHOCK POSITION REAR

GEAR BOX - MIDDLE MOTOR POSITION
(INITIAL SETTING)



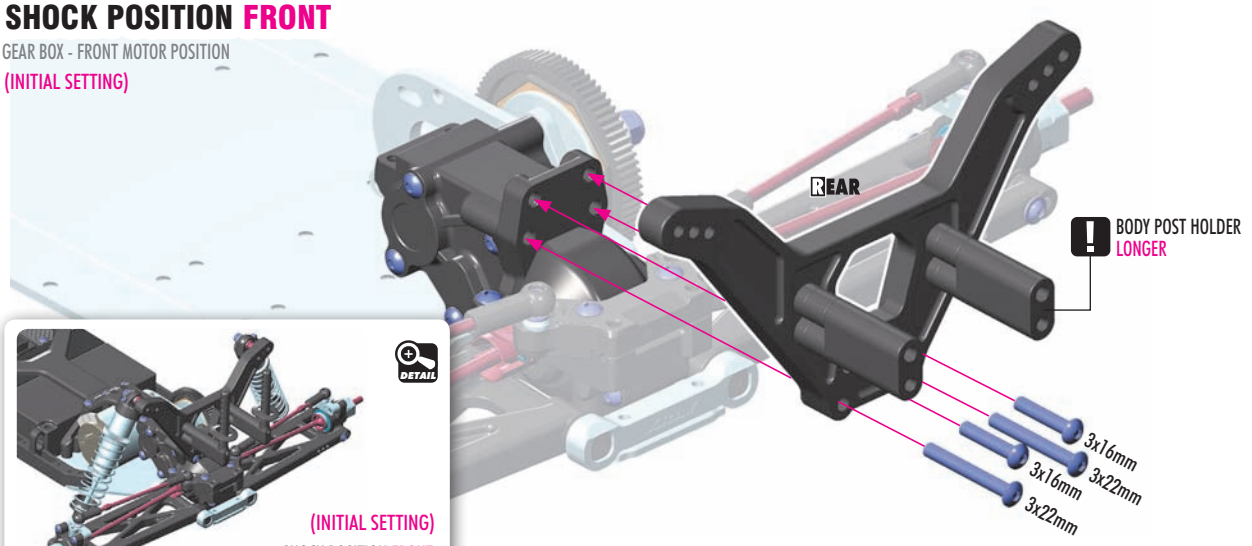


902316
SH M3x16

902322
SH M3x22

ALTERNATIVE 1
SHOCK POSITION FRONT

GEAR BOX - FRONT MOTOR POSITION
(INITIAL SETTING)

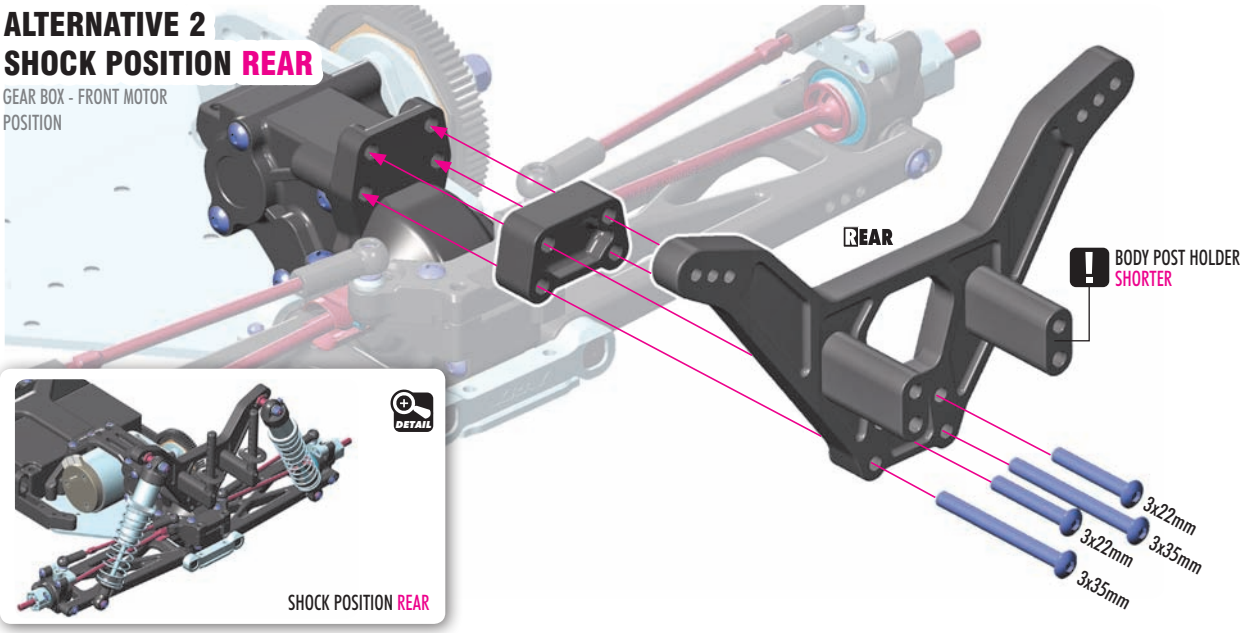


902322
SH M3x22

902335
SH M3x35

ALTERNATIVE 2
SHOCK POSITION REAR

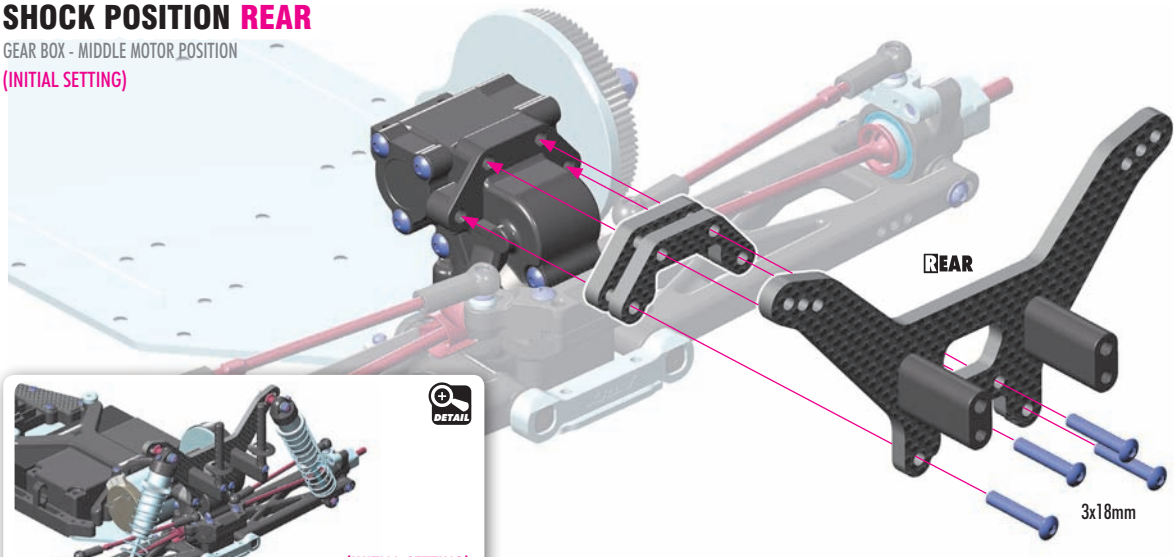
GEAR BOX - FRONT MOTOR POSITION



902318
SH M3x18

SHOCK POSITION REAR

GEAR BOX - MIDDLE MOTOR POSITION
(INITIAL SETTING)



OPTION

STEERING PLATE		
#322570	ALU	OPTION
#322571	COMPOSITE	INCLUDED



OPTION

STEERING ARMS		
#322510	ALU	OPTION
#322511	COMPOSITE	INCLUDED



OPTION

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



OPTION

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



OPTION

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



OPTION

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

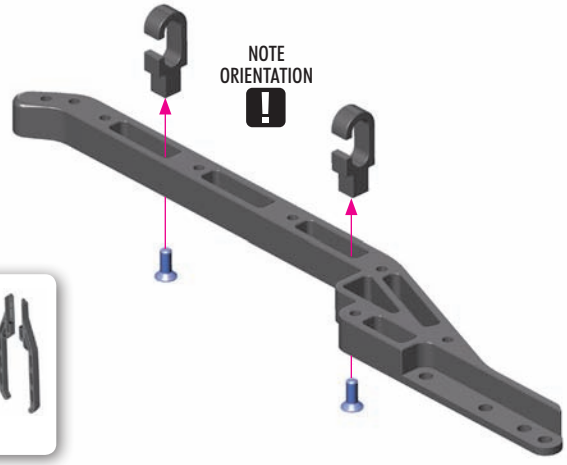


BAG 04

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)

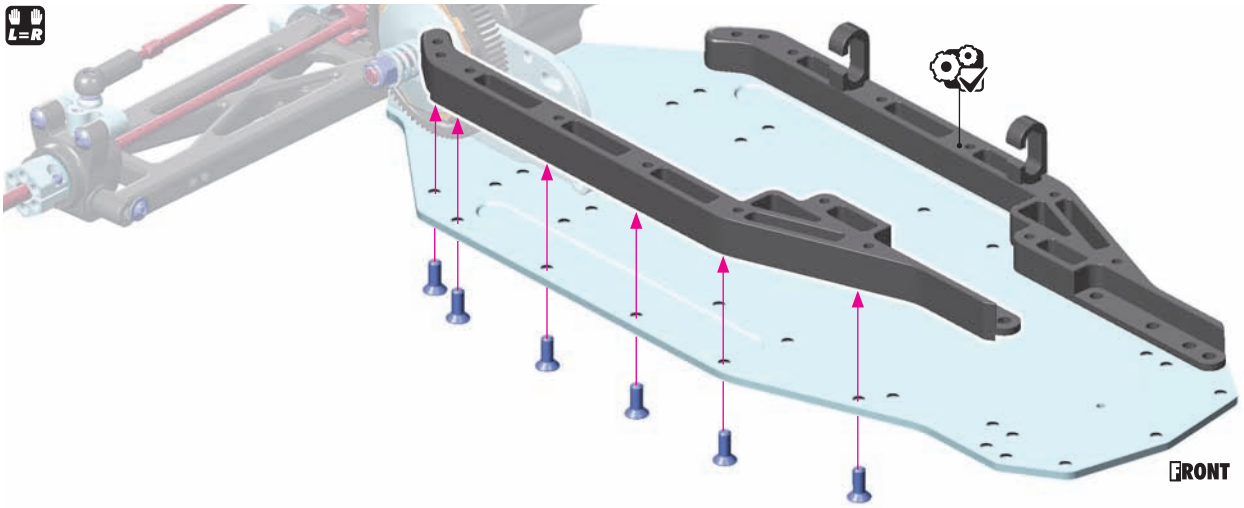
903308
SFH M3x8



OPTION

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

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

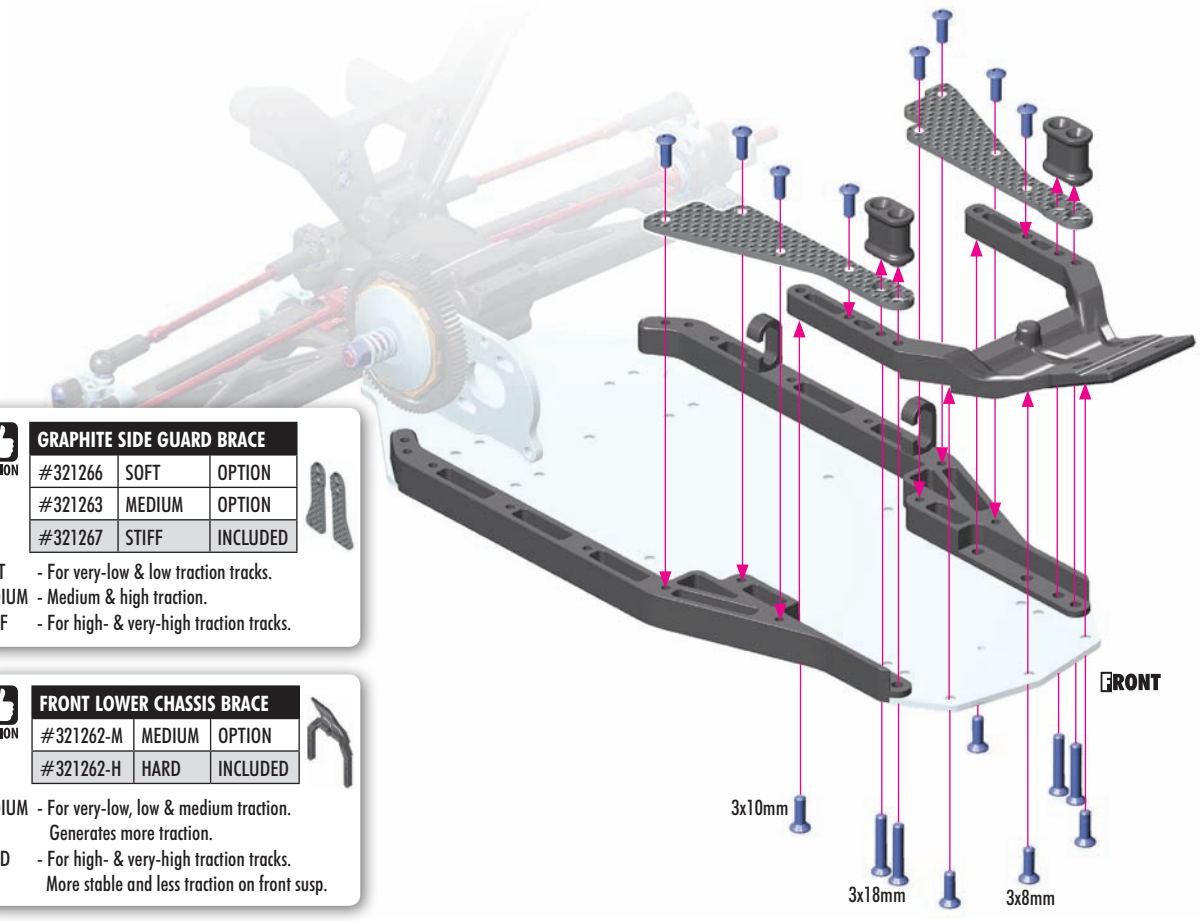


902308
SH M3x8

903308
SFH M3x8

903310
SFH M3x10

903318
SFH M3x18



OPTION

GRAPHITE SIDE GUARD BRACE		
#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.

OPTION

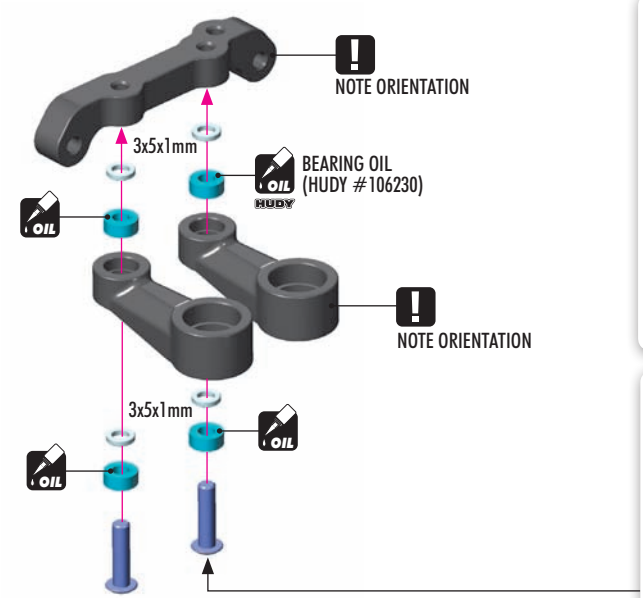
FRONT LOWER CHASSIS BRACE		
#321262-M	MEDIUM	OPTION
#321262-H	HARD	INCLUDED

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.

303141
SHIM 3x5x1

902312
SH M3x12

930306
BB 3x6x2.5



OPTION

STEERING PLATE		
#322570	ALU	OPTION
#322571	COMPOSITE	INCLUDED



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

OPTION

STEERING ARMS		
#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.

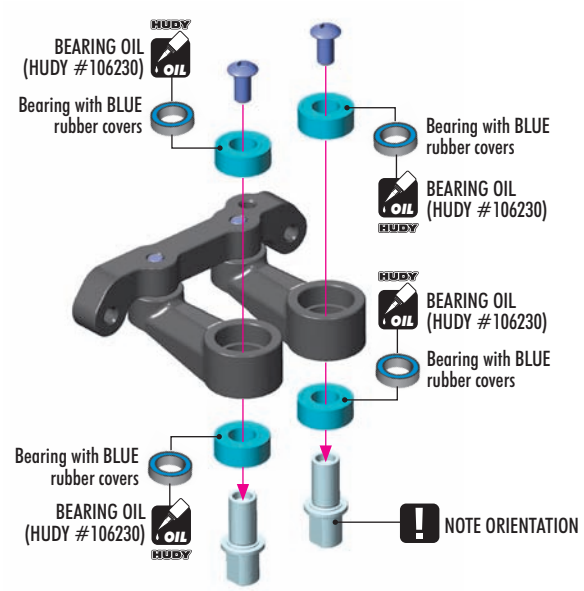
1. tighten fully
2. loosen 1/3 ccw
3. check moves freely

1/3 (120° CCW)

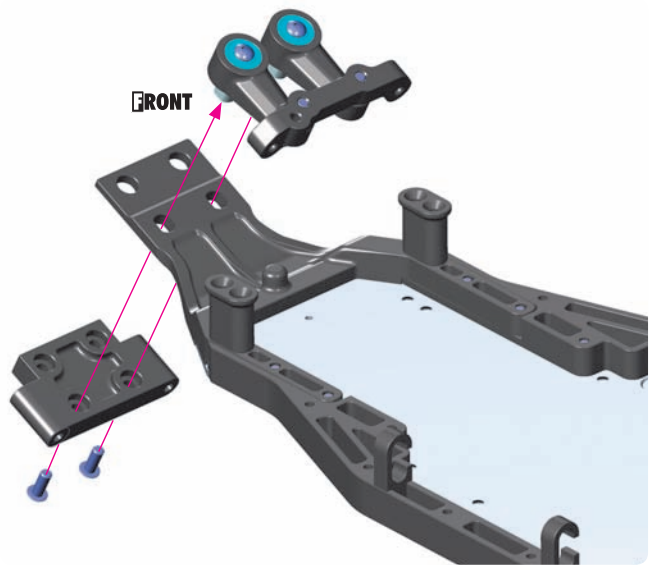


902306
SH M3x6

940510
BB 5x10x4



902308
SH M3x8



OPTION

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



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

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

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

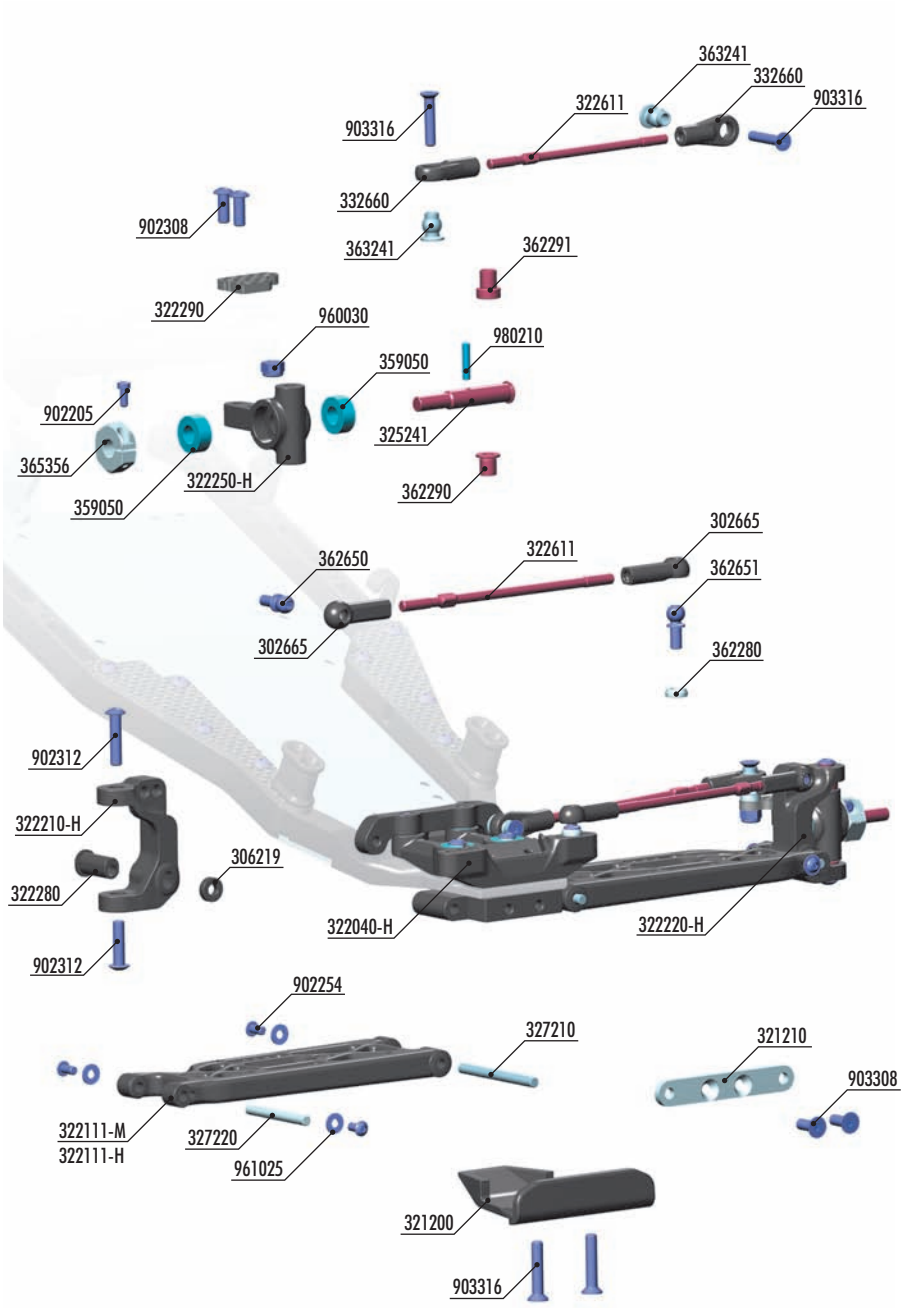
OPTION	SUSPENSION ARM		
	#322111-M	MEDIUM	INCL. in DIRT
	#322111-H	HARD	INCL. in CARPET
	#322111-G	GRAPHITE	OPTION

OPTION	FRONT ROLL CENTER HOLDER		
	#322040-M	MEDIUM	OPTION
	#322040-H	HARD	INCLUDED
	#322041	ALU	OPTION

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

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

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



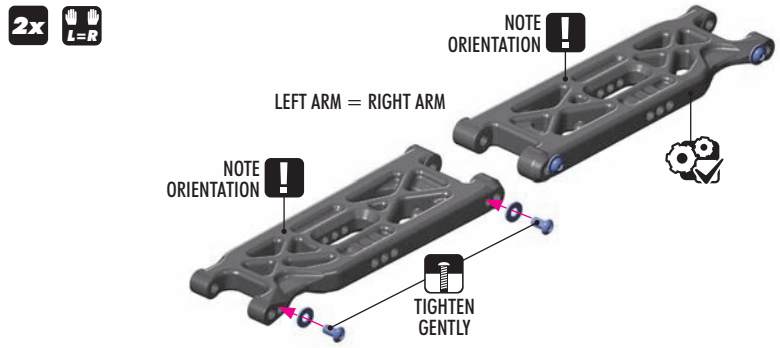
BAG 05

30 2665	COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)	36 2290	STEEL STEERING BUSHING - SHORT (2)
30 6219	COMPOSITE SET OF SERVO SHIMS (4)	36 2291	STEEL STEERING BUSHING - LONG (2)
32 1200	COMPOSITE FRONT BUMPER	36 2650	BALL END 4.9MM WITH THREAD 6MM (2)
32 1210	ALU SUSPENSION HOLDER BRACE - SWISS 7075 T6 (3MM)	36 2651	BALL END 4.9MM WITH THREAD 8MM (2)
32 2040-H	COMPOSITE FRONT ROLL CENTER HOLDER - HARD	36 3241	BALL UNIVERSAL 5.75MM WITH BACKSTOP (2)
32 2111-M	COMPOSITE SUSPENSION ARM FRONT LOWER - MEDIUM	36 5356	ALU WHEEL HUB 12MM - OFFSET "+1.50MM" (2)
32 2111-H	COMPOSITE SUSPENSION ARM FRONT LOWER - HARD		
32 2210-H	COMPOSITE C-HUB 0° DEG. RIGHT - HARD	35 9050	BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)
32 2220-H	COMPOSITE C-HUB 0° DEG. LEFT - HARD	90 2205	HEX SCREW SH M2x5 (10)
32 2250-H	COMPOSITE STEERING BLOCK - HARD	90 2254	HEX SCREW SH M2.5x4 (10)
32 2280	COMPOSITE CASTER ECCENTRIC BUSHING (2+2+2)	90 2308	HEX SCREW SH M3x8 (10)
32 2290	GRAPHITE EXTENSION FOR STEERING BLOCK - 2 SLOTS (2)	90 2312	HEX SCREW SH M3x12 (10)
32 2611	ADJUSTABLE TURNBUCKLE 70MM M3 L/R - HUDY SPRING STEEL™ (2)	90 3308	HEX SCREW SFH M3x8 (10)
32 5241	XT2 FRONT DRIVE AXLE - HUDY SPRING STEEL™	90 3316	HEX SCREW SFH M3x16 (10)
32 7210	FRONT SUSPENSION PIVOT PIN (2)	96 1025	WASHER S 2.5 (10)
32 7220	FRONT ARM PIVOT PIN (2)	96 0030	NUT M3 (10)
33 2660	COMPOSITE STEERING & SERVO BALL JOINT 5.8 MM (4+2)	98 0210	PIN 2x9.8 (10)
36 2280	ALU CONICAL SHIM 3x6x2.0MM (10)		

5. FRONT SUSPENSION CARPET DIRT

902254
SH M2.5x4

961025
S 2.5

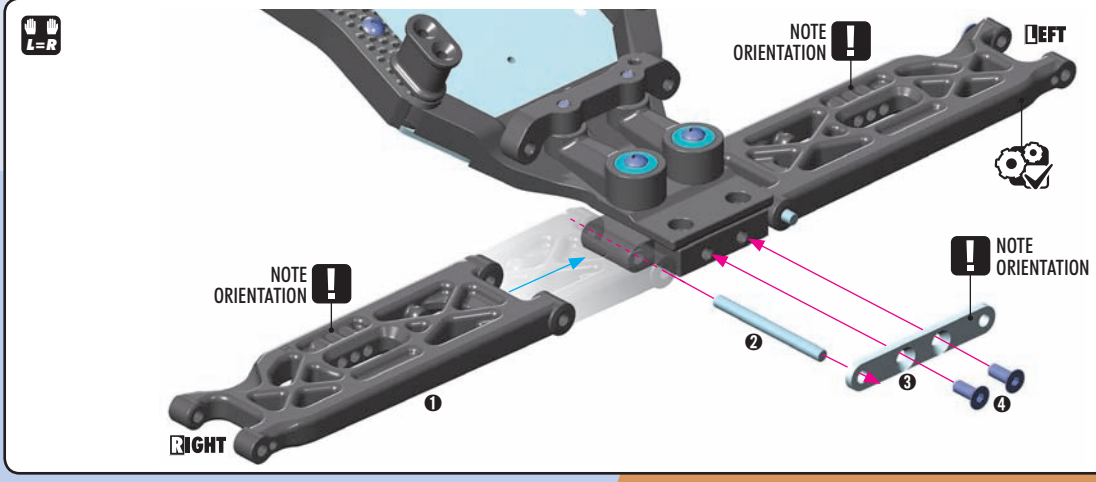


OPTION

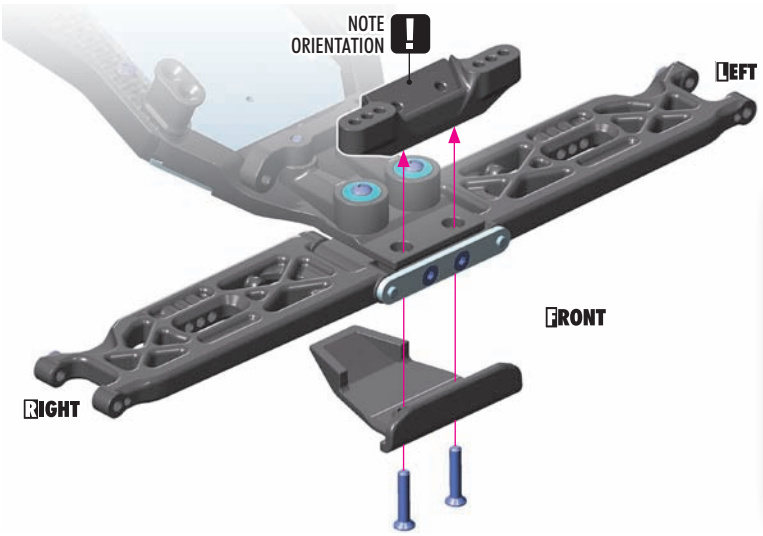
SUSPENSION ARM		
#322111-M	MEDIUM	INCL. in DIRT
#322111-H	HARD	INCL. in CARPET
#322111-G	GRAPHITE	OPTION

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

903308
SFH M3x8



903316
SFH M3x16



OPTION

FRONT ROLL CENTER HOLDER		
#322040-M	MEDIUM	OPTION
#322040-H	HARD	INCLUDED
#322041	ALU	OPTION

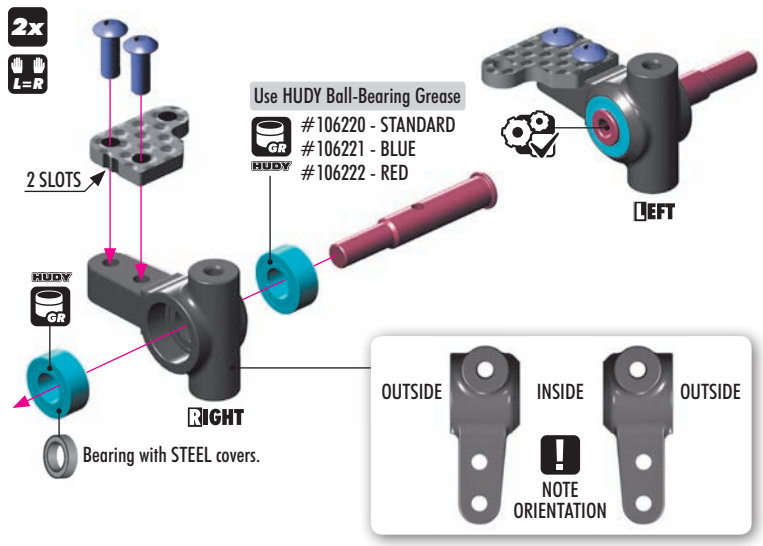
MEDIUM - Generates more traction, absorbs bumps better.

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



OPTION

STEERING BLOCK EXTENSION		
#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

OPTION

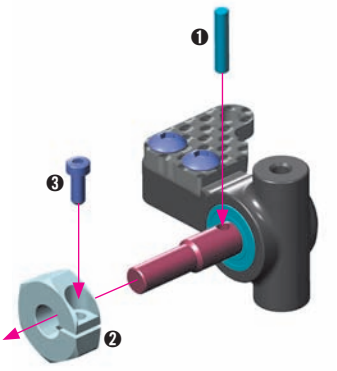
STEERING BLOCK		
#322250-M	MEDIUM	OPTION
#322250-H	HARD	INCLUDED
#322250-G	GRAPHITE	OPTION

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

902205
SH M2x5

981210
P 2x10

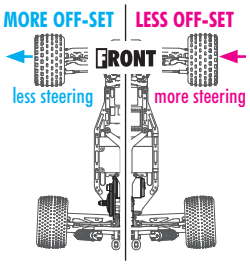
2x L=R



OPTION

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

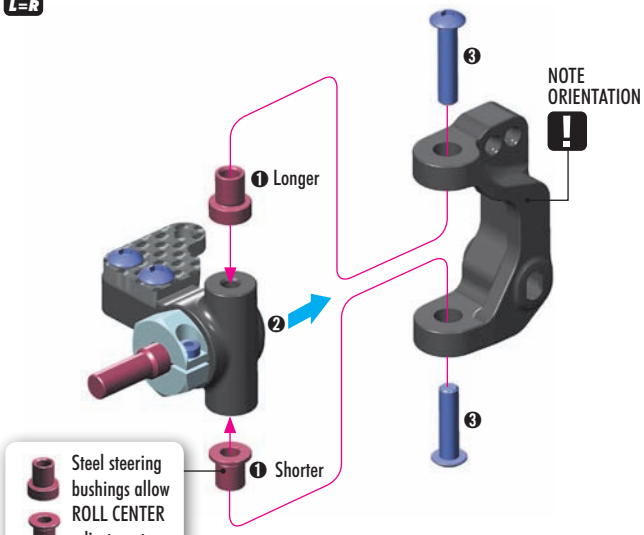




OPTIONAL HEX HUB EFFECTS
Different off-set hex hubs are used to increase or decrease the track-width.

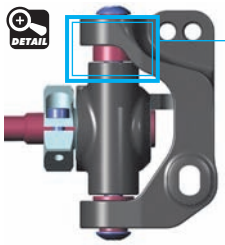
902312
SH M3x12

2x L=R

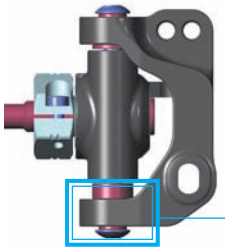


Steel steering bushings allow ROLL CENTER adjustment.

DETAIL



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.

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



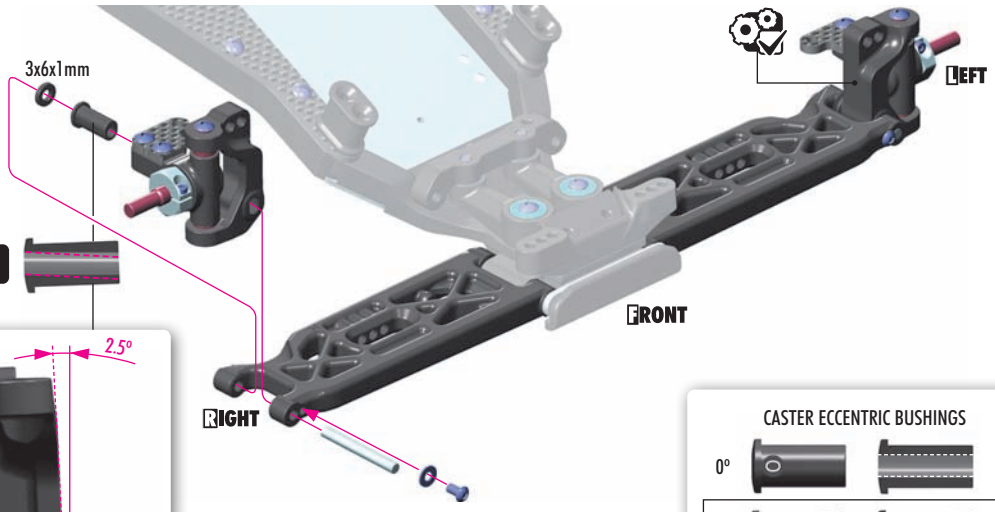
MEDIUM - For low traction. More steering on low grip.
HARD - For medium traction. More steering, more free in corners.
GRAPHITE - For high traction. More precise steering, less stoping in corners.

10

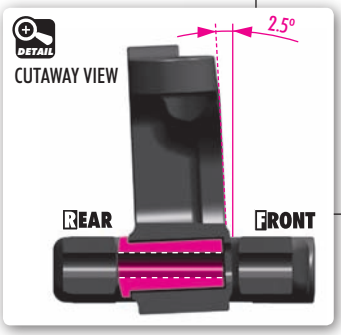
306219
SHIM 3x6x1

902254
SH M2.5x4

2x L=R



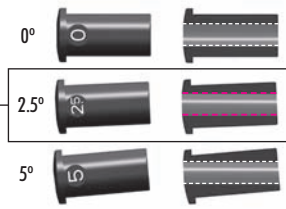
DETAIL
CUTAWAY VIEW



LESS CASTER = increased steering off-power

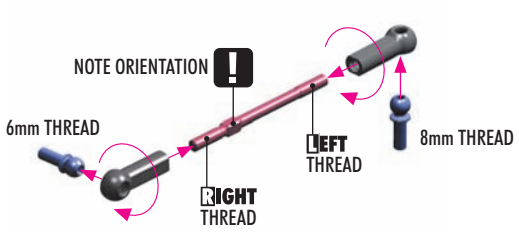
MORE CASTER = less steering off-power

CASTER ECCENTRIC BUSHINGS
DETAIL



ROLL CENTER LINKS

2x L=R



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

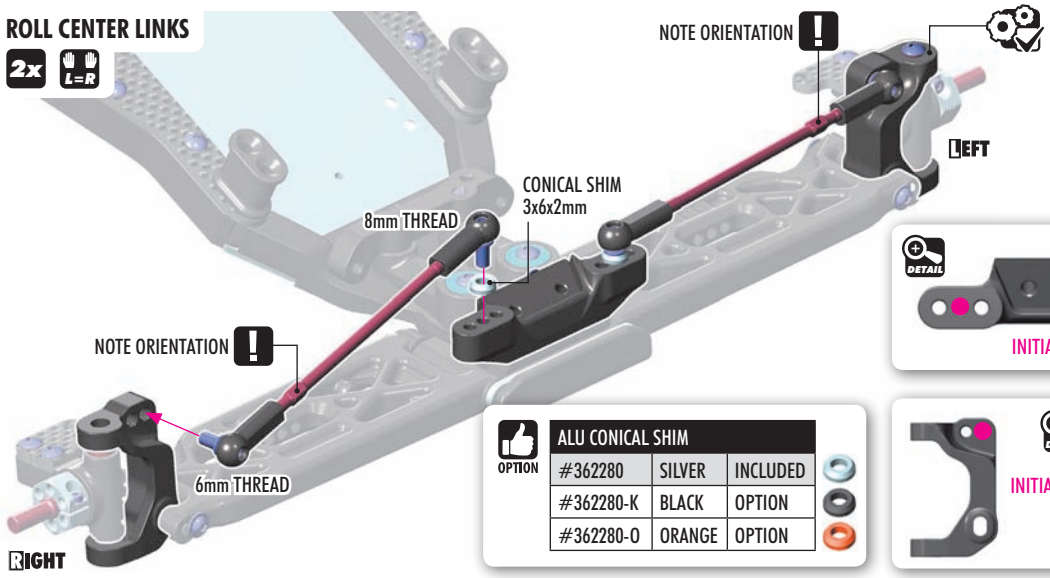




362280
CON. SHIM 3x6x2

ROLL CENTER LINKS

2x L=R





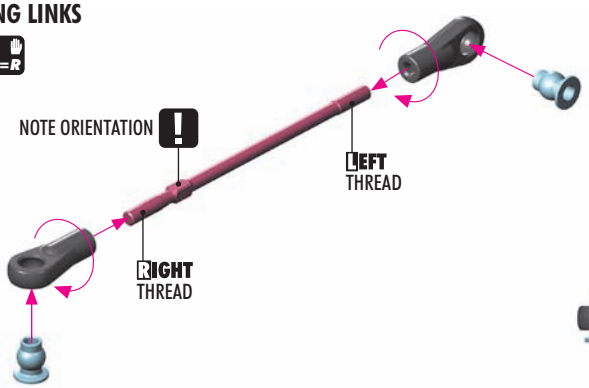
OPTION

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



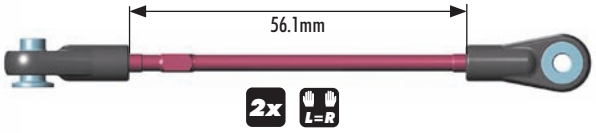
STEERING LINKS

2x L=R



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



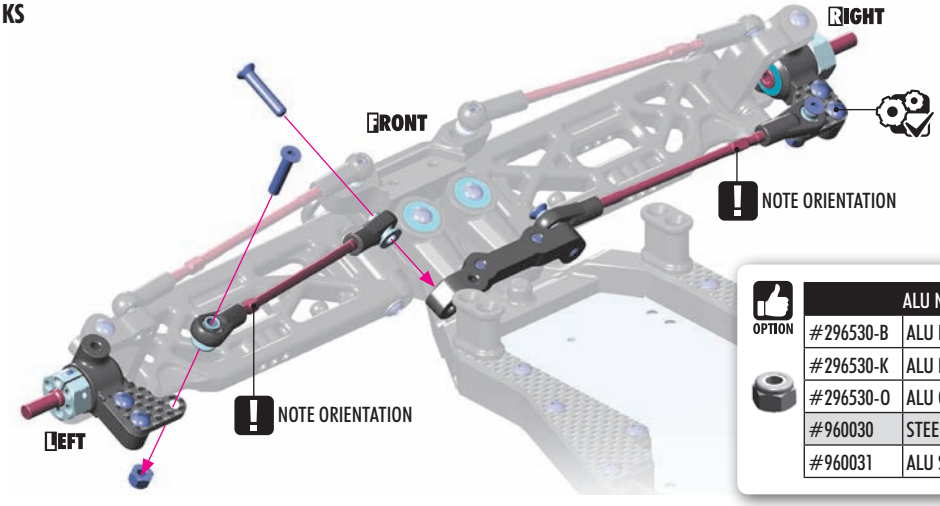


903316
SFH M3x16

960030
NUT M3

STEERING LINKS

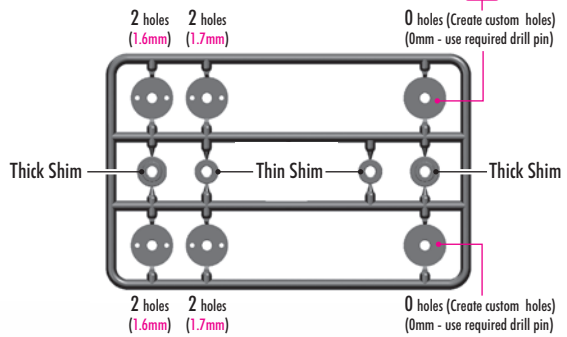
2x L=R



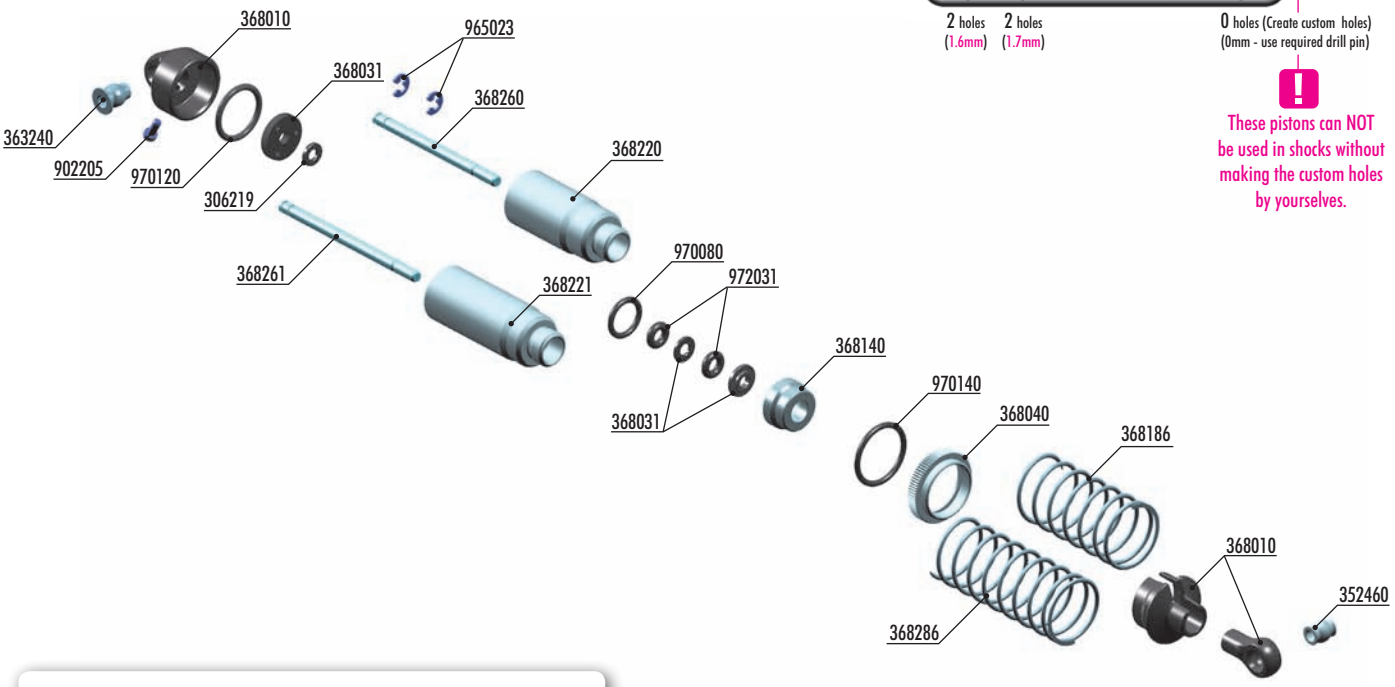
OPTION

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

PISTONS DETAIL

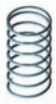


These pistons can NOT be used in shocks without making the custom holes by yourselves.



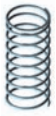
OPTION

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



OPTION

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



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



OPTION #368021
ALU SHOCK SPRING RETAINING COLLAR (4)



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



BAG 06

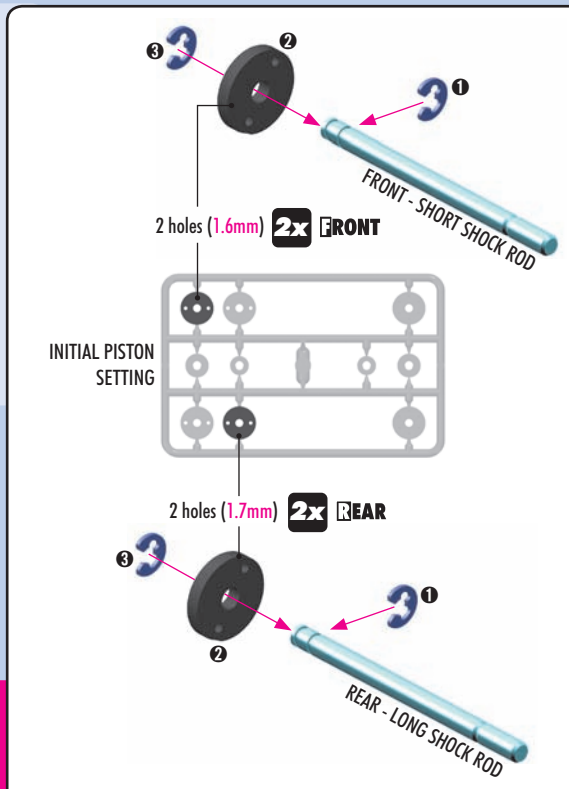
30 6219	COMPOSITE SET OF SERVO SHIMS (4)
35 2460	PIVOT BALL 5.8 - V3 (10)
36 3240	BALL UNIVERSAL 5.8MM WITH BACKSTOP (2)
36 8010	COMPOSITE SHOCK PARTS
36 8031	SHOCK PISTONS - COMPLETE SET - DERLIN
36 8040	ALU SHOCK ADJUSTABLE NUT (2)
36 8140	ALU LOWER SHOCK BODY CAP (2)
36 8186	FRONT SPRING-SET - 4 DOTS (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)

965023
C 2.3

970080
O 8x1

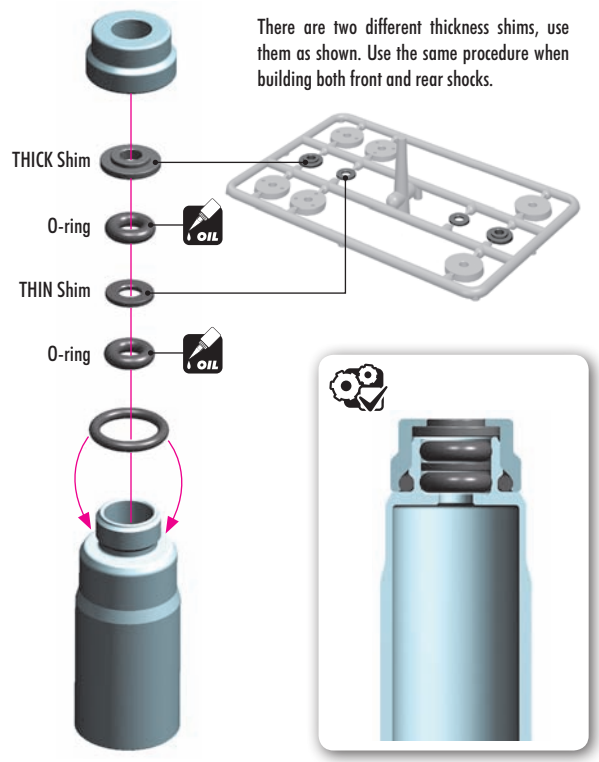
972031
O 3x2.1

SET-UP BOOK
SHOCK DAMPING
SHOCK PISTONS



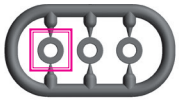
4x

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



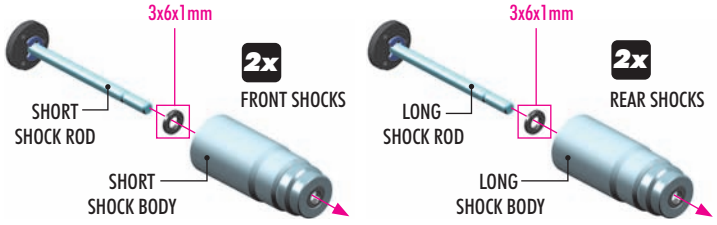
OPTION #306219 DOWNSTOP SHIMS

THICKER shim used, GREATER downstop is achieved.

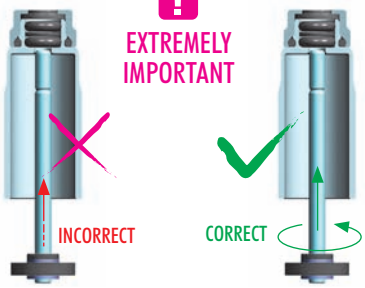


IMPORTANT

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



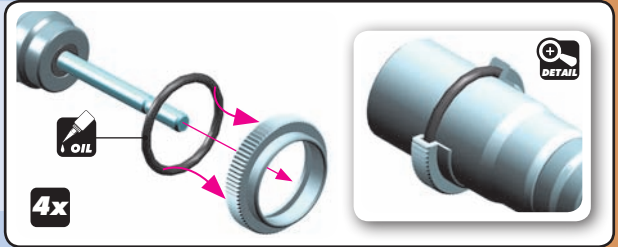
EXTREMELY IMPORTANT



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

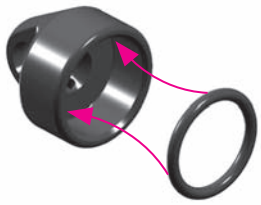
Twist the shock rod through the lower shock body assembly.

970140
O 14x1.5



970120
O 12x1

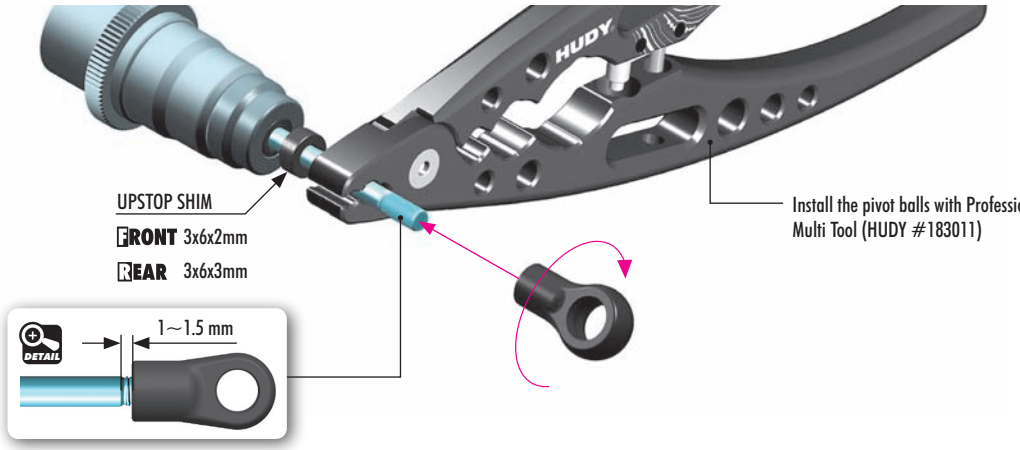
4x

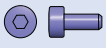


306219
SHIM 3x6x2

306219
SHIM 3x6x3

4x





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



❶ 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.



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



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



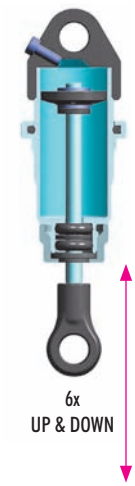
❹ Gently place the shock cap onto the filled shock body and start to tighten the cup. Tighten the cap fully.



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



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



❼ 6x push the shaft up and down.



❽ Untighten the screw.



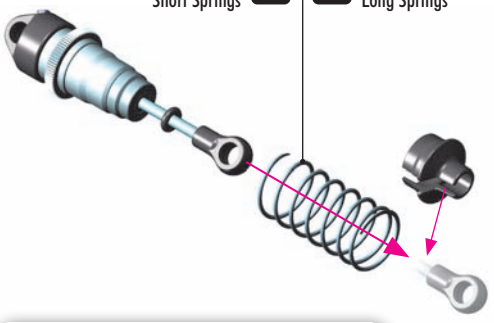
❾ Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



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

SET-UP BOOK
SHOCK OIL

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

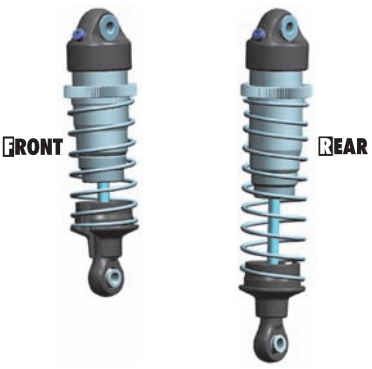


OPTION #368021
ALU SHOCK SPRING RETAINING COLLAR (4)

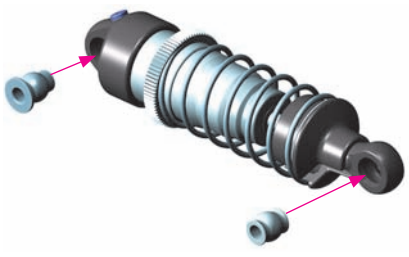


IMPORTANT

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



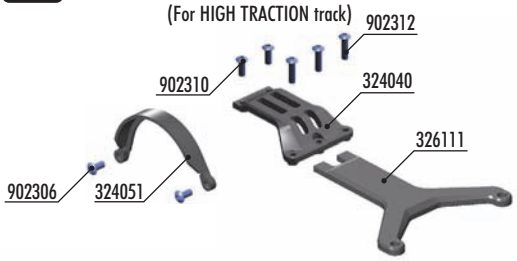
2x FRONT SHOCKS (SHORT)
2x REAR SHOCKS (LONG)



BAG 07

GEAR BOX
FRONT MOTOR POSITION

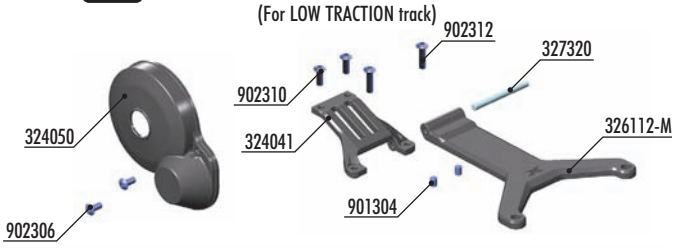
(For HIGH TRACTION track)

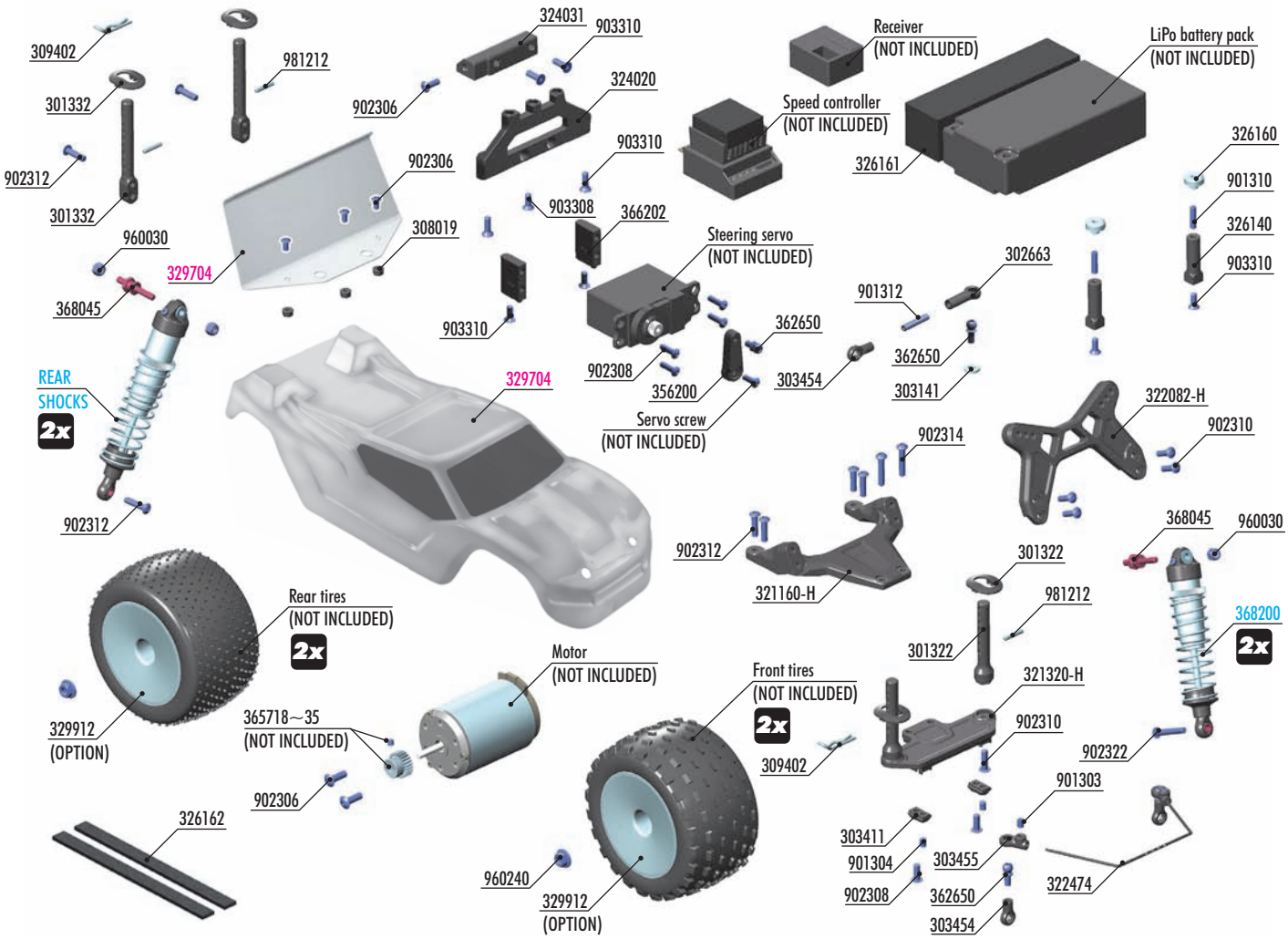


BAG 08

GEAR BOX
MIDDLE MOTOR POSITION

(For LOW TRACTION track)





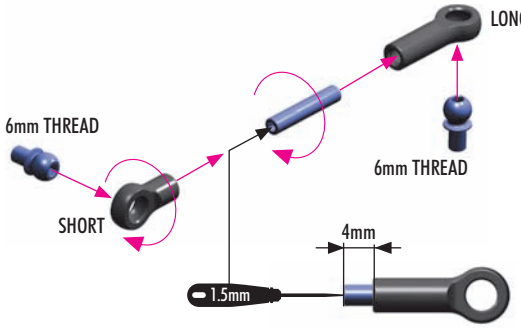
BAG 07

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)	

901312
SB M3x12

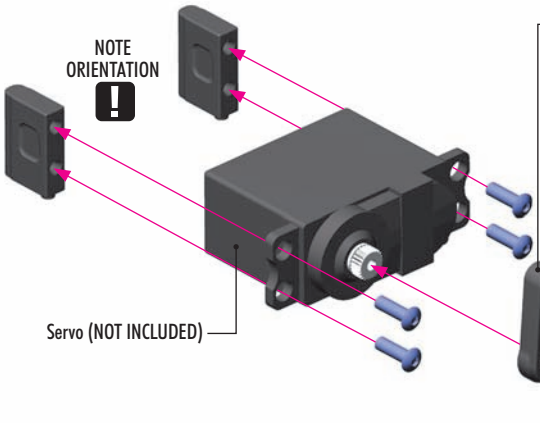


TIP Install the pivot balls with Professional Multi Tool (HUDY #183011)





902308
SH M3x8



Use appropriate servo arm:

K - (23T) KO Propo / JR / Sanwa / Multiplex
H - (24T)
F - (25T) Futaba / Hitec

OPTION HUDY

HUDY ALU SERVO HORNS	
#293497	23T
#293498	24T
#293499	25T



OPTION HUDY

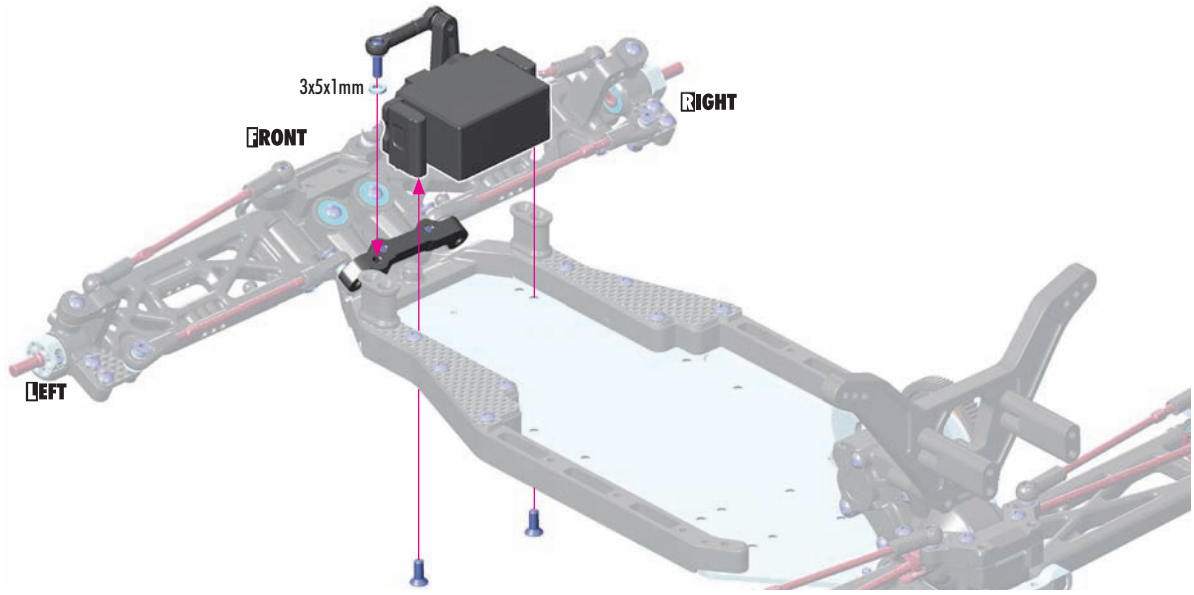
HUDY CLAMP ALU SERVO HORNS	
#293404	23T
#293405	24T
#293406	25T



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

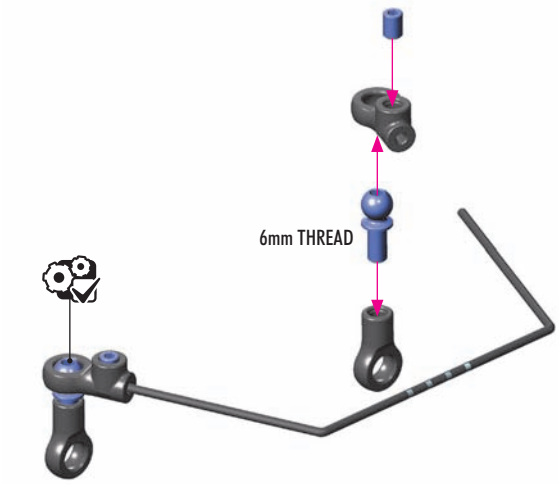
303141
SHIM 3x5x1

903310
SFH M3x10

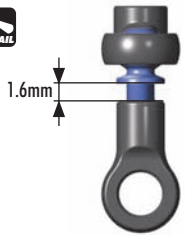


L=R

901303
SB M3x3



DETAIL L=R 2x

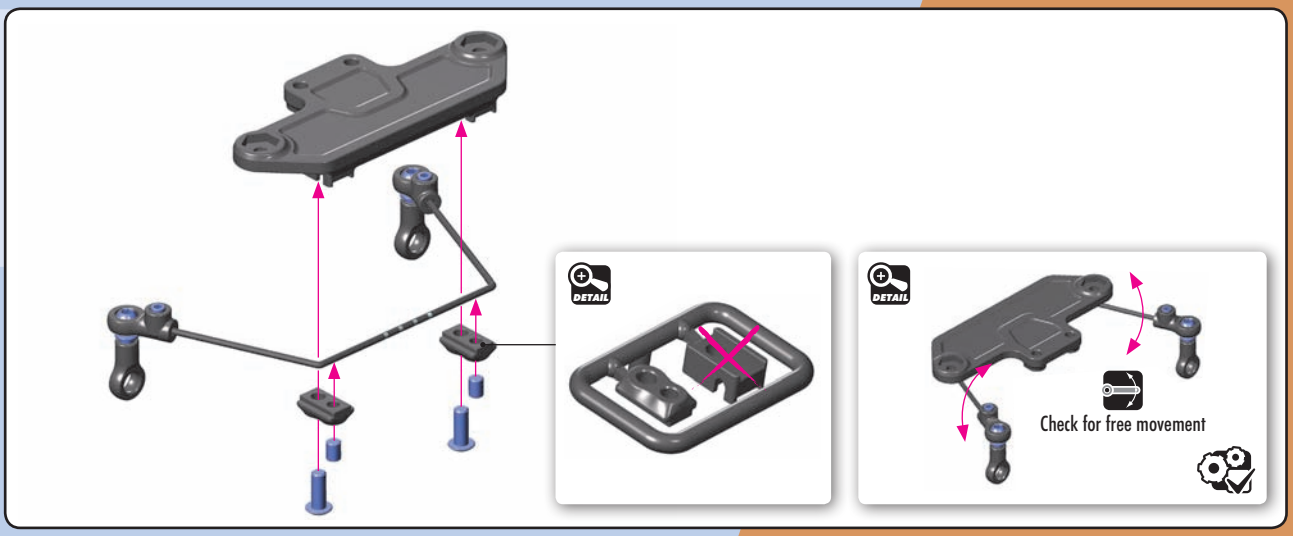


OPTION

ANTI-ROLL BARS		
#322472	1.2mm	OPTION
#322474	1.4mm	INCLUDED
#322476	1.6mm	OPTION
#322478	1.8mm	OPTION

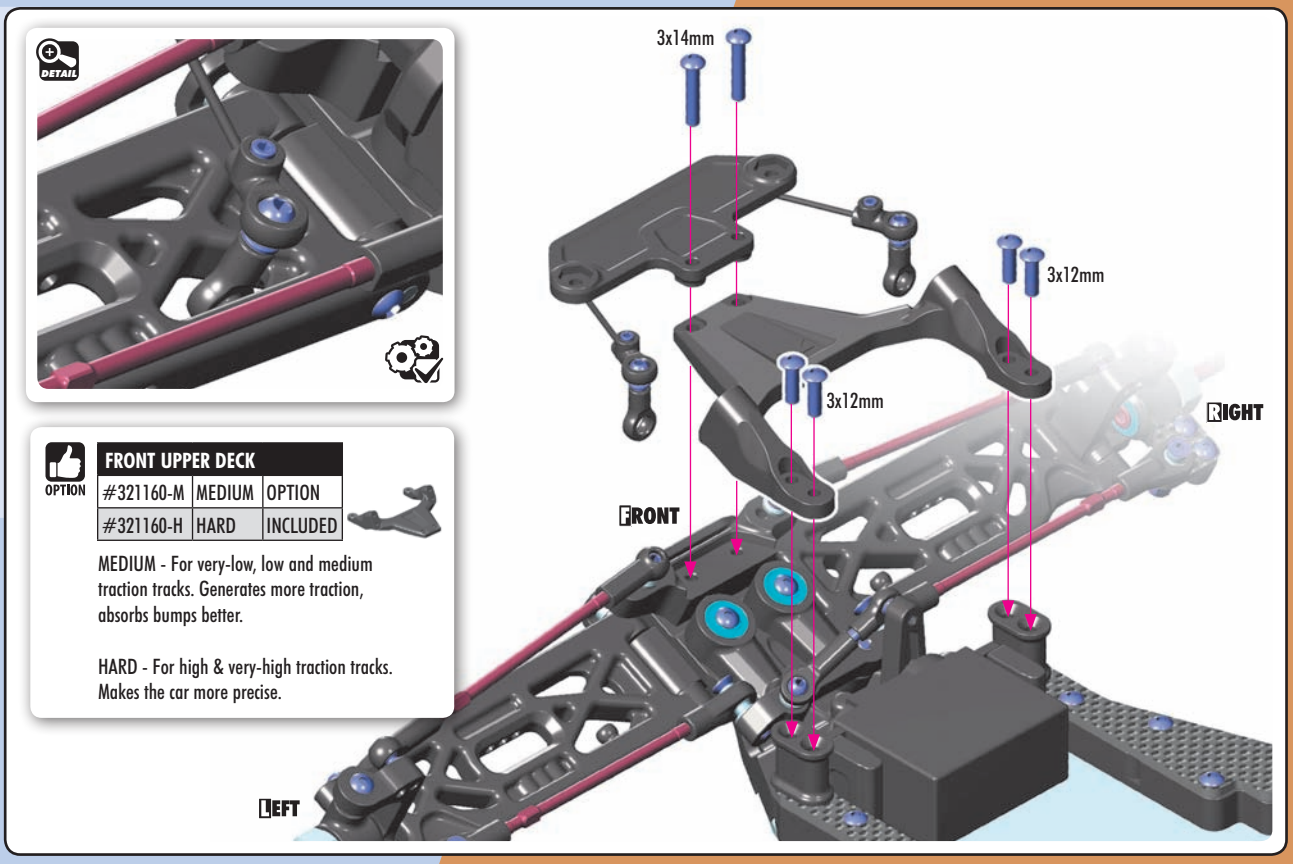
901304
SB M3x4

902308
SH M3x8



902312
SH M3x12

902314
SH M3x14



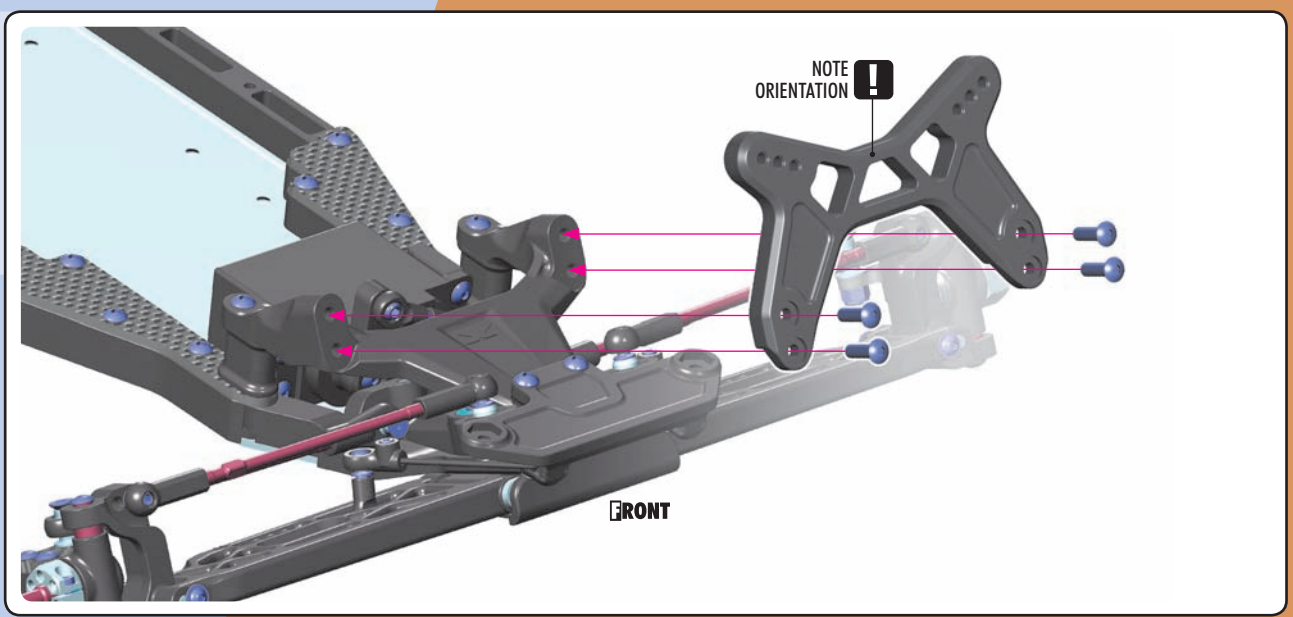
OPTION

FRONT UPPER DECK		
#321160-M	MEDIUM	OPTION
#321160-H	HARD	INCLUDED

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

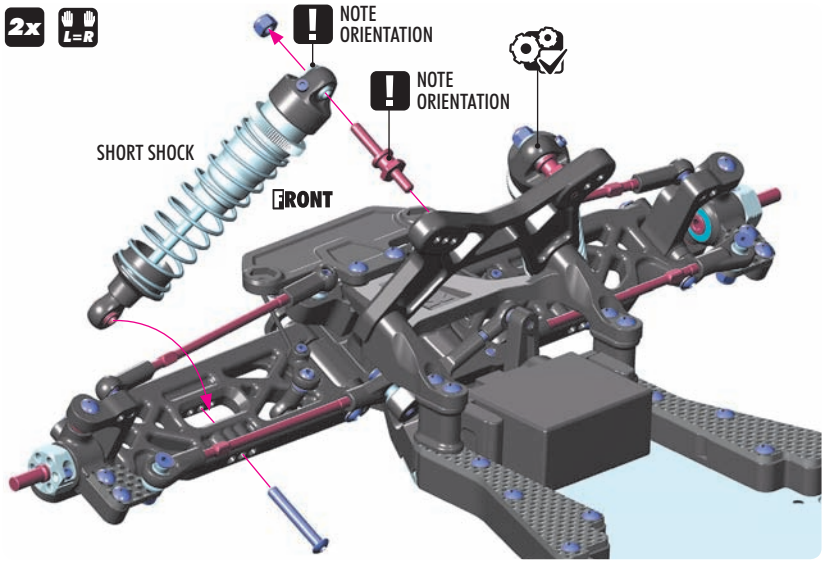
HARD - For high & very-high traction tracks. Makes the car more precise.

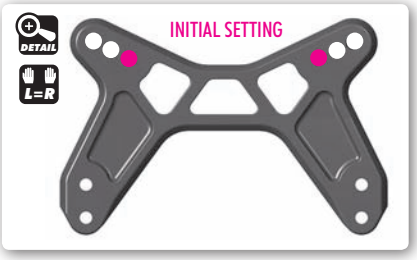
902310
SH M3x10



902322
SH M3x22

960030
NUT M3





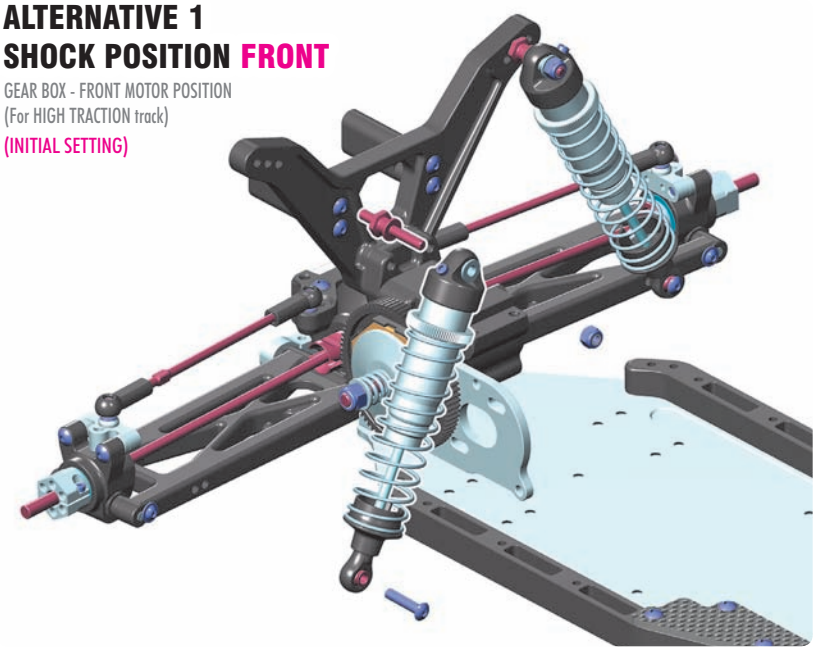


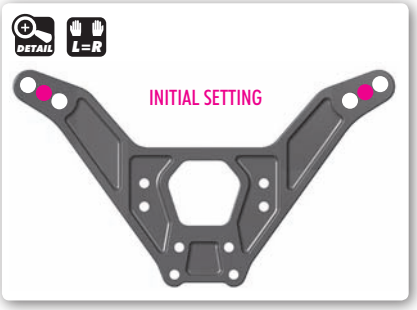
902312
SH M3x12

960030
NUT M3

ALTERNATIVE 1
SHOCK POSITION FRONT

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





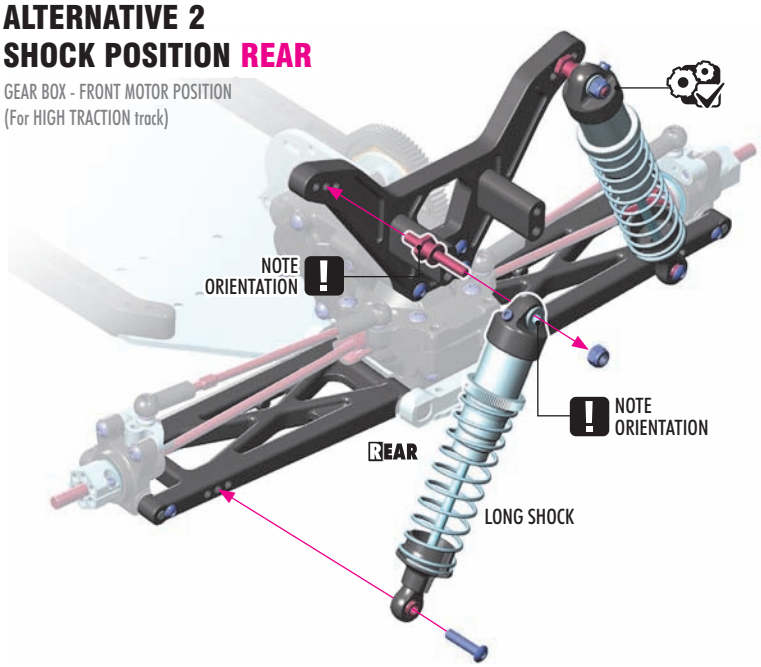


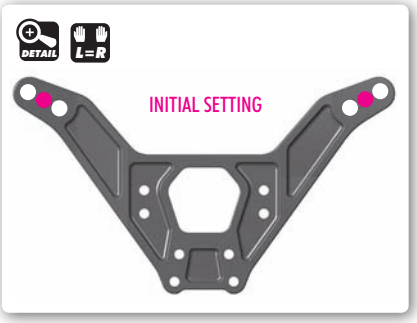
902312
SH M3x12

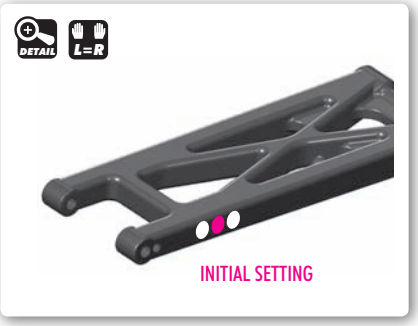
960030
NUT M3

ALTERNATIVE 2
SHOCK POSITION REAR

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





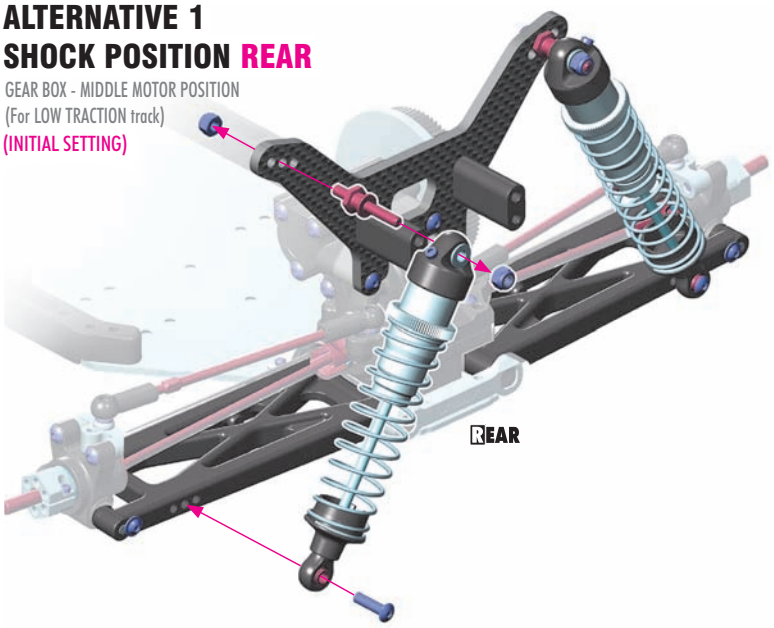


902310
SH M3x10

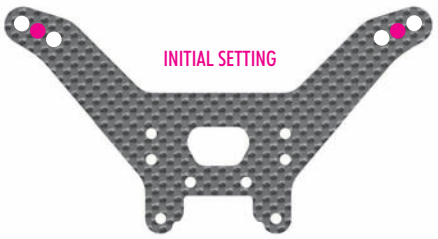
960030
NUT M3

ALTERNATIVE 1
SHOCK POSITION REAR

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



DETAIL L=R



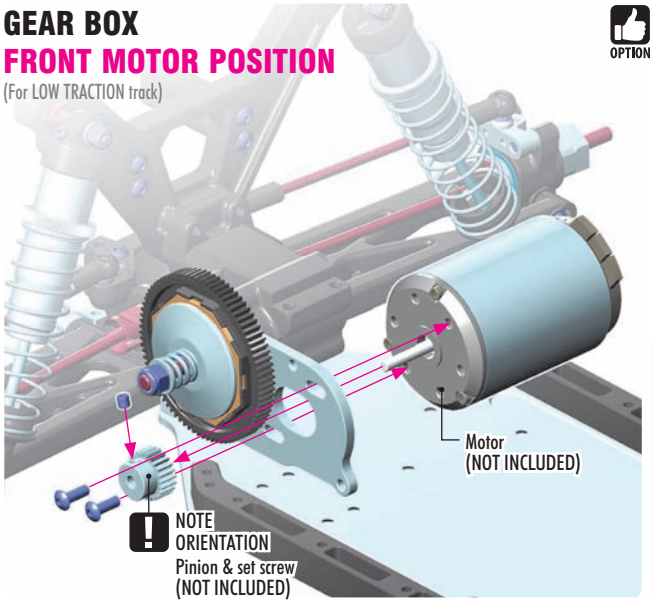
DETAIL L=R



902306
SH M3x6

GEAR BOX
FRONT MOTOR POSITION

(For LOW TRACTION track)



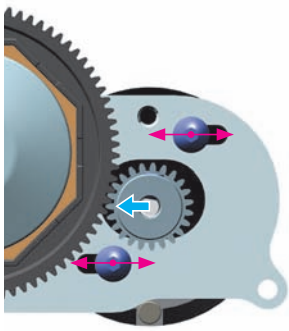
OPTION

PINIONS (48P)	
#365718	18T
#365719	19T
#365720	20T
#365721	21T
#365722	22T
#365723	23T
#365724	24T
#365725	25T
#365726	26T
#365727	27T
#365728	28T
#365729	29T
#365730	30T
#365731	31T
#365732	32T
#365733	33T
#365734	34T
#365735	35T
#365736	36T
#365737	37T
#365738	38T

OPTION
#324051
COMPOSITE GEAR COVER



DETAIL



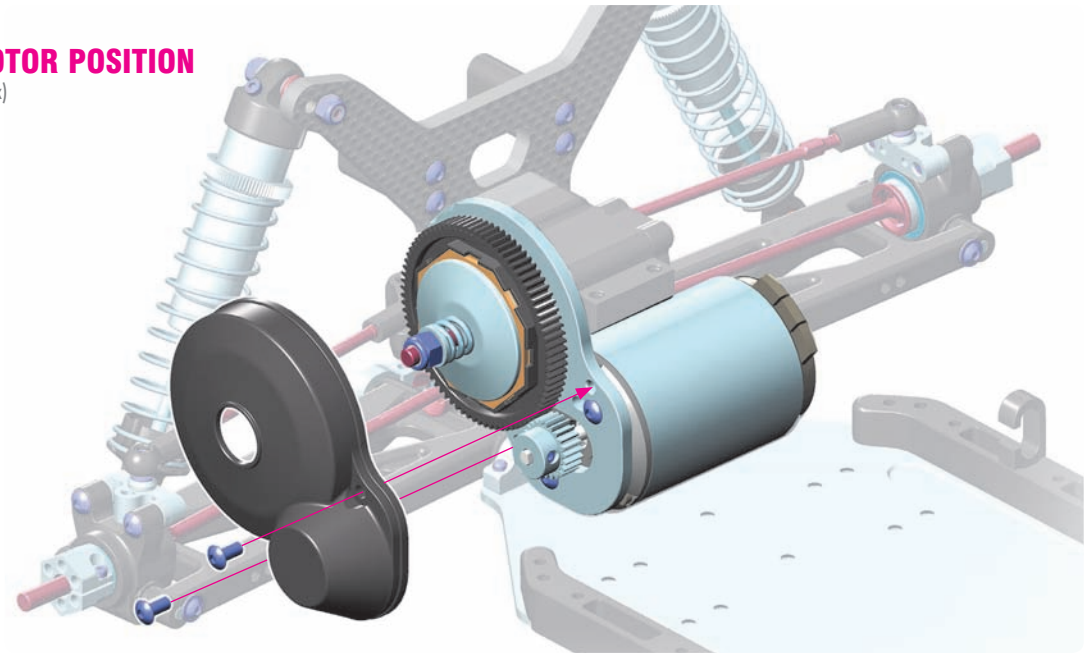
Adjust the motor so the pinion meshes with the spur gear properly. Make sure the gear mesh is not too tight.

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)

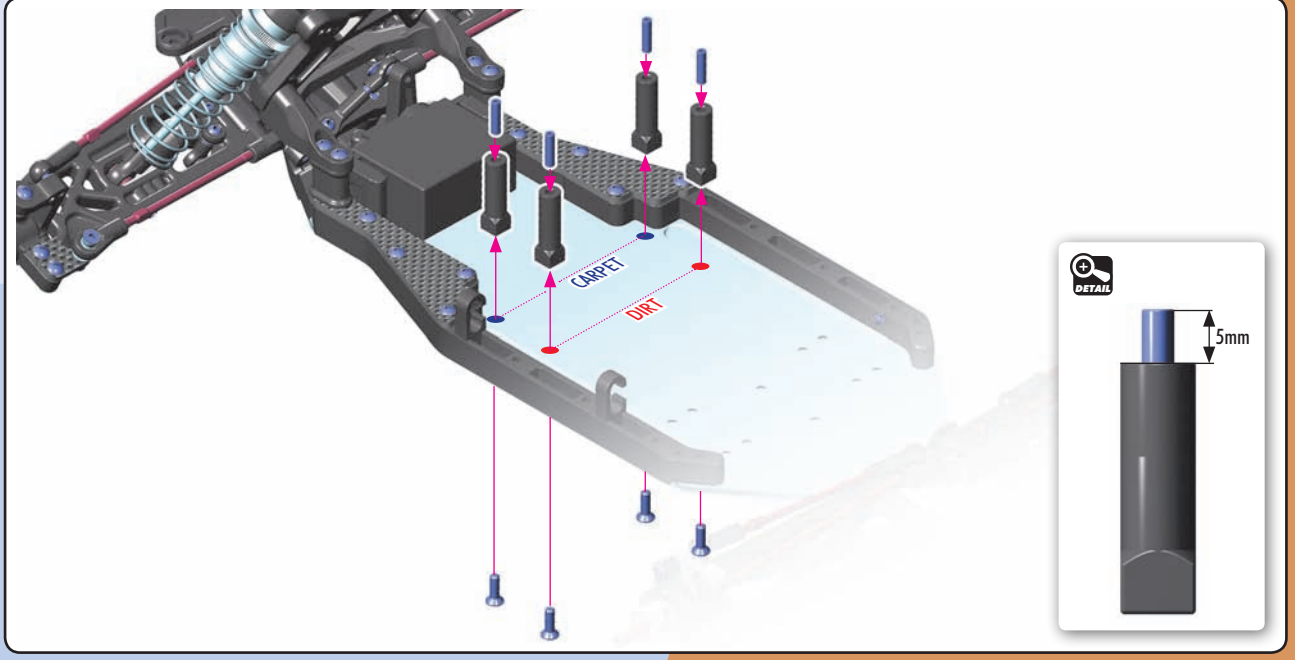


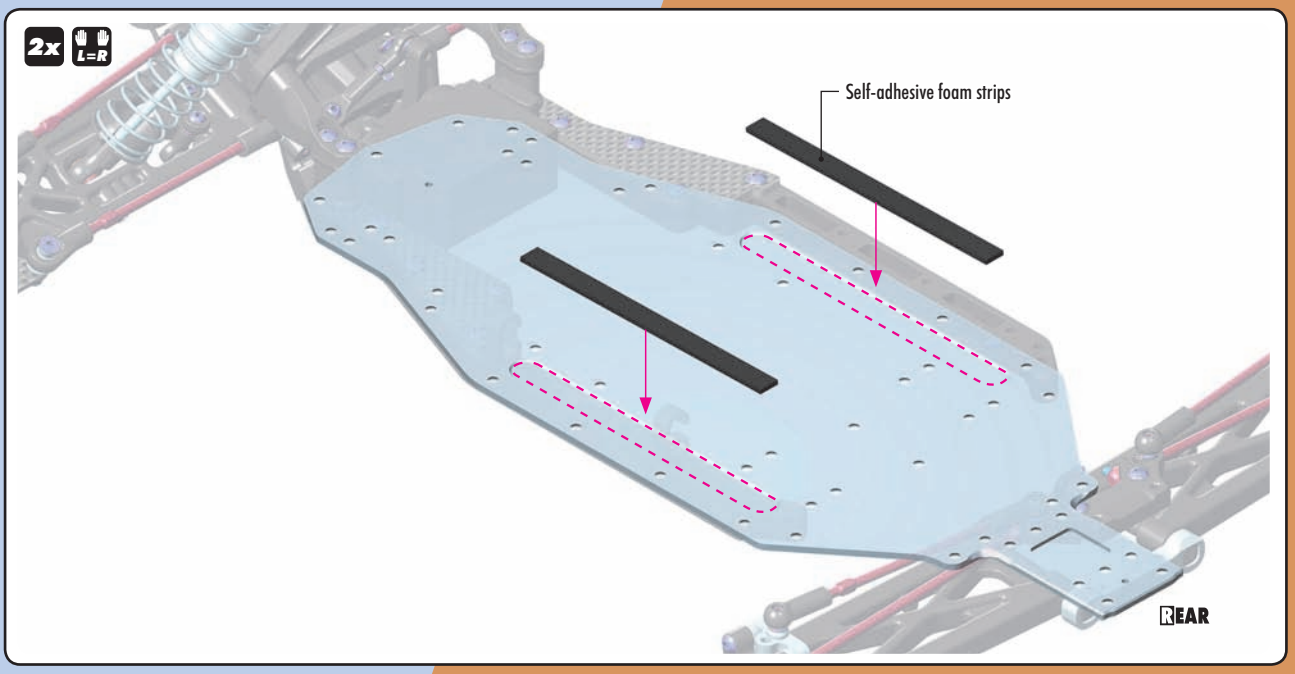


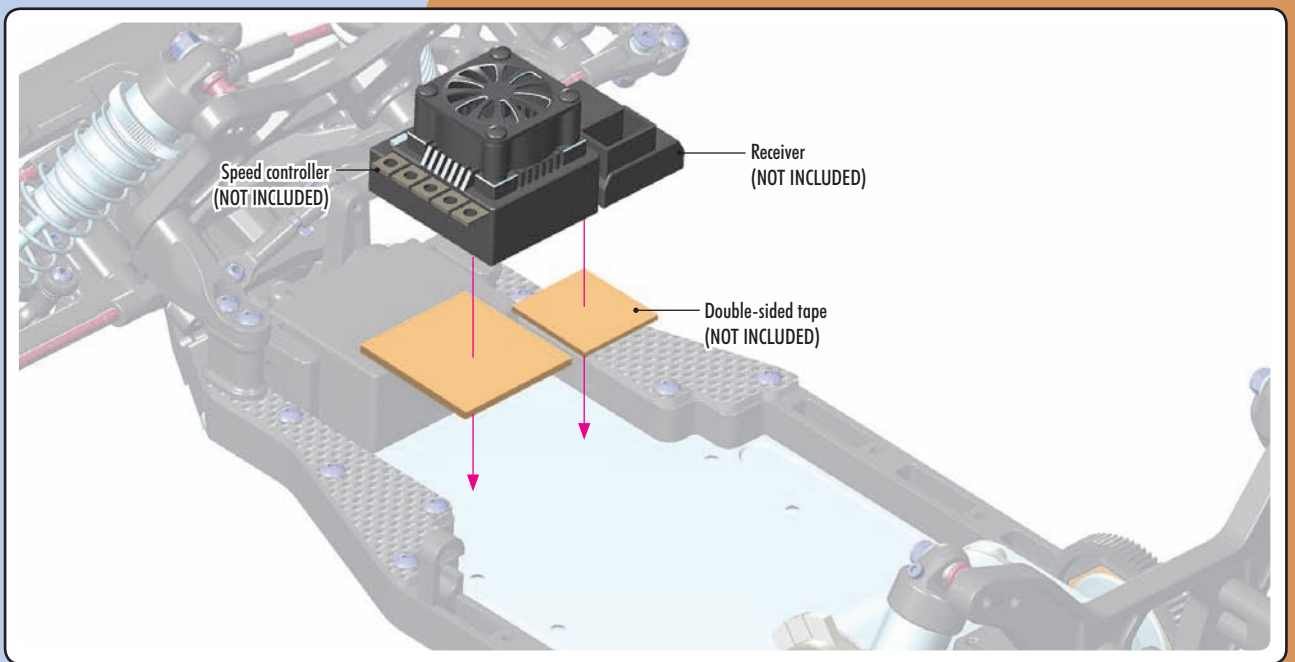
901310
SB M3x10



903310
SFH M3x10





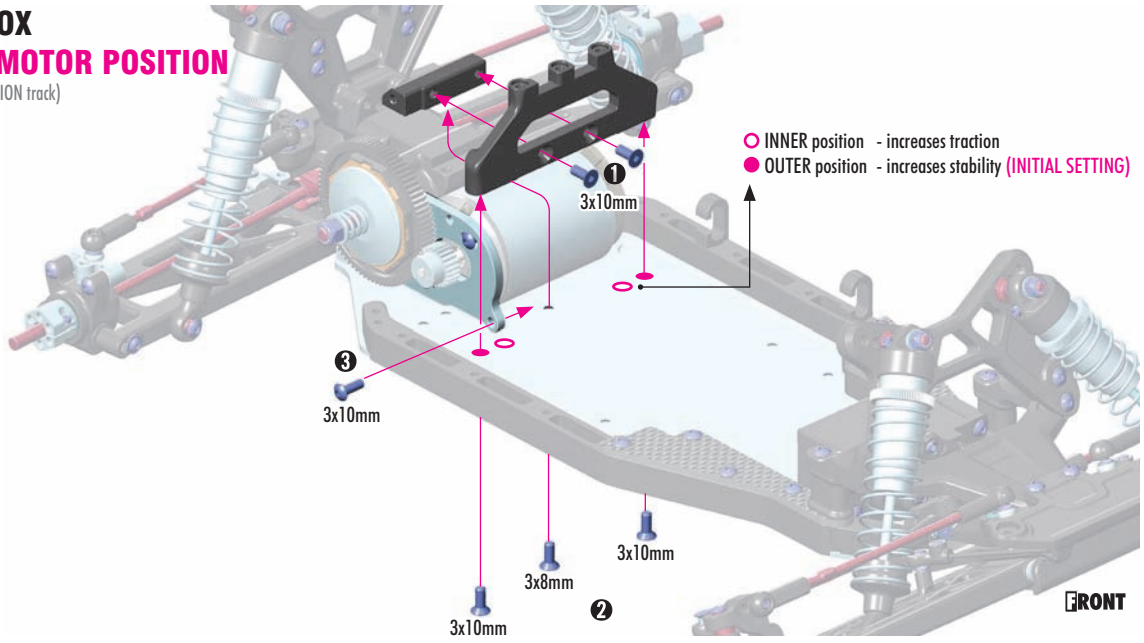


902310
SH M3x10

903308
SFH M3x8

903310
SFH M3x10

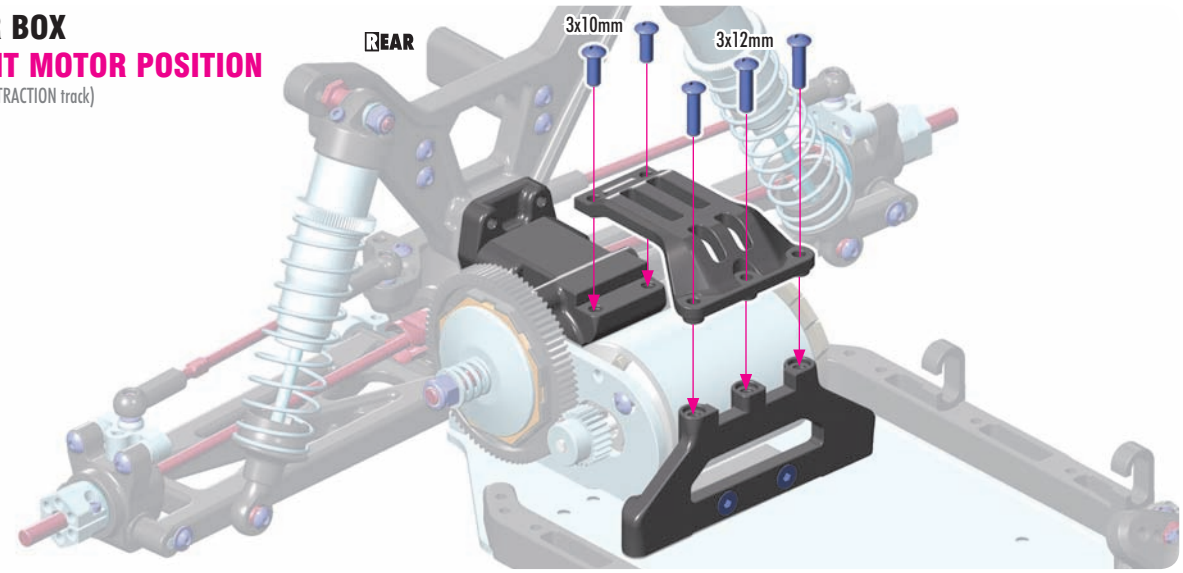
GEAR BOX
FRONT MOTOR POSITION
(For HIGH TRACTION track)



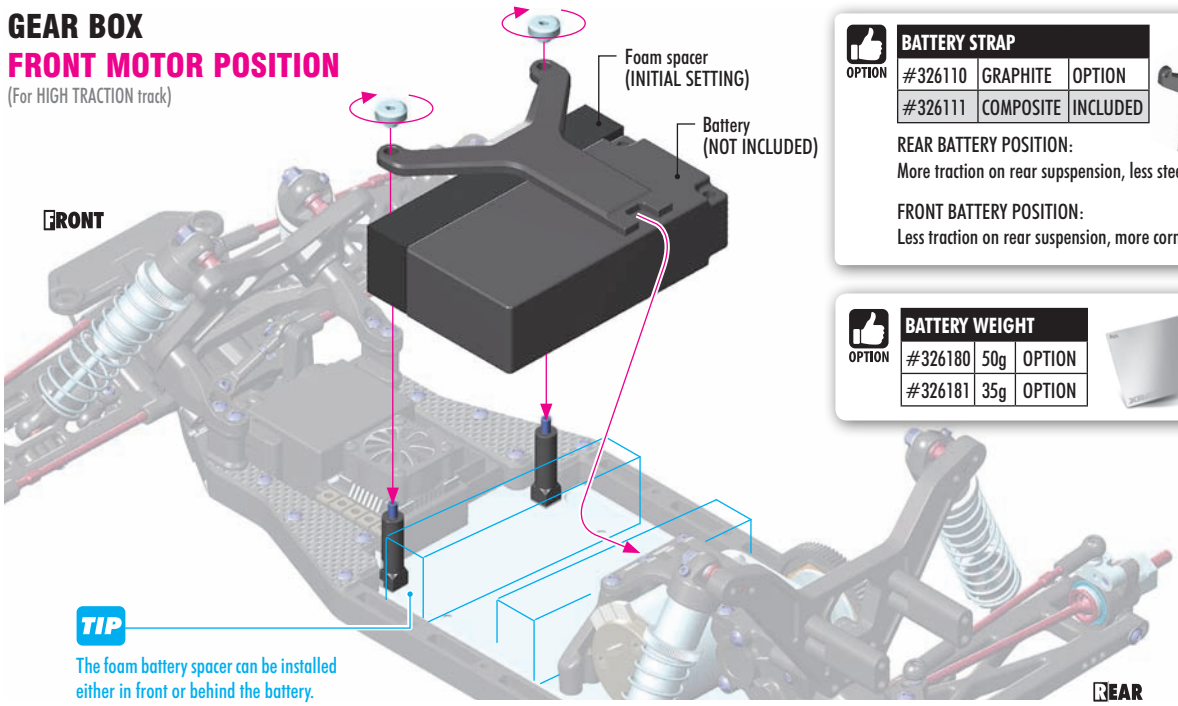
902310
SH M3x10

902312
SH M3x12

GEAR BOX
FRONT MOTOR POSITION
(For HIGH TRACTION track)



GEAR BOX
FRONT MOTOR POSITION
(For HIGH TRACTION track)



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

OPTION

BATTERY STRAP		
#326110	GRAPHITE	OPTION
#326111	COMPOSITE	INCLUDED



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

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

OPTION

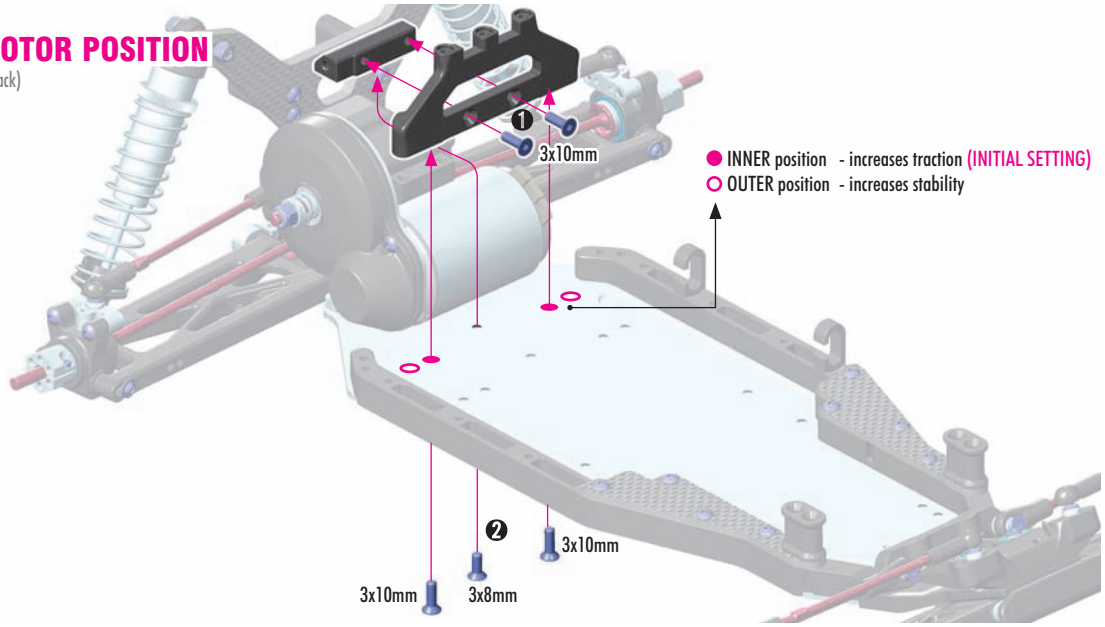
BATTERY WEIGHT		
#326180	50g	OPTION
#326181	35g	OPTION

902310
SH M3x10

903308
SFH M3x8

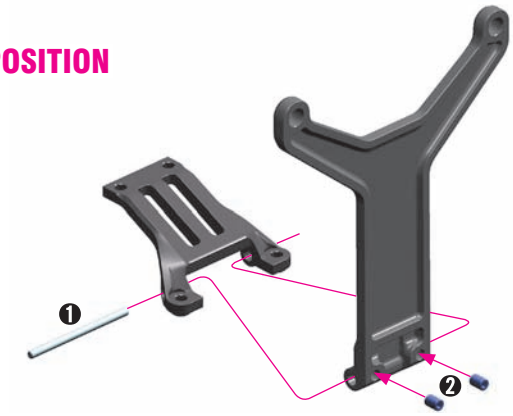
903310
SFH M3x10

GEAR BOX
MIDDLE MOTOR POSITION
(For LOW TRACTION track)



901304
SB M3x4

GEAR BOX
MIDDLE MOTOR POSITION
(For LOW TRACTION track)



OPTION

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



902310
SH M3x10

902312
SH M3x12

GEAR BOX
MIDDLE MOTOR POSITION
(For LOW TRACTION track)

OPTION

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



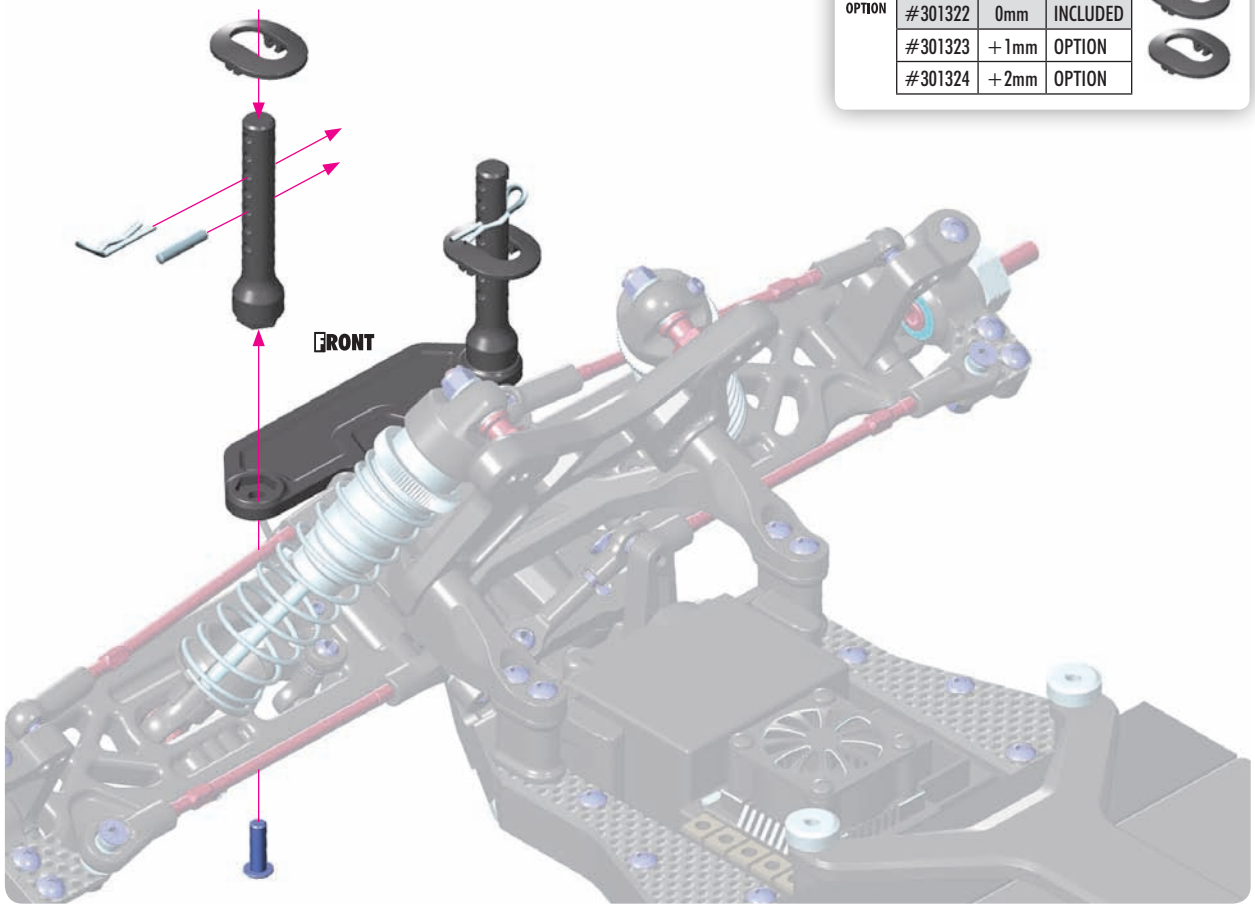
902310
SH M3x10

981212
P 2x12

2x L=R

OPTION

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



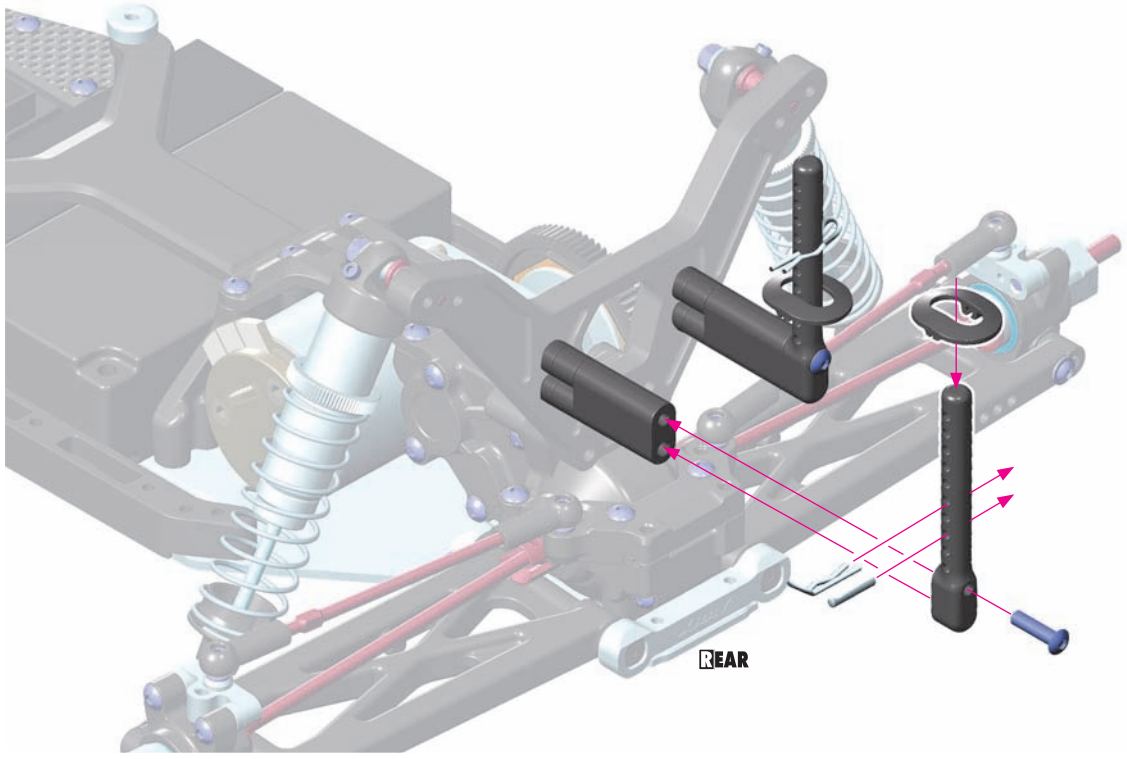
902312
SH M3x12

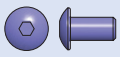
981212
P 2x12

2x L=R

OPTION

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





902306
SH M3x6



308019
NUT M3

❶ Before cutting and making holes on the BODY, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts. Before cutting and making holes on the WING, put the unpainted wing on the wing holders to confirm the mounting position and location for holes and cutouts.

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

❸ Mask all windows.

❹ Apply paint masks as appropriate.

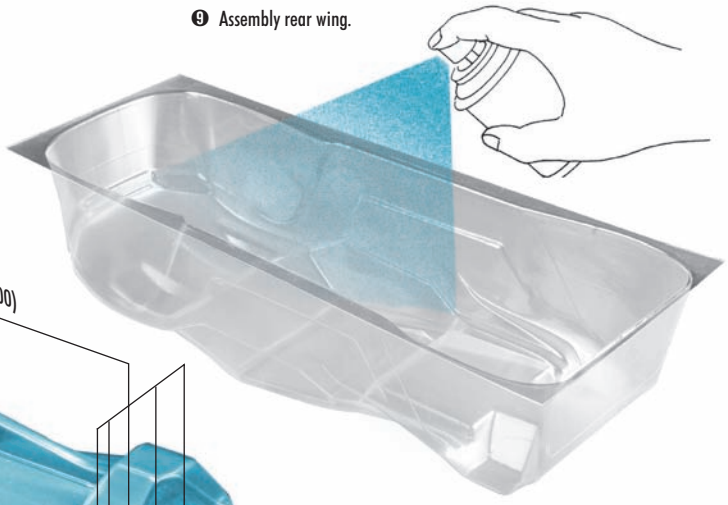
❺ Paint the body using paints formulated for polycarbonate bodies.

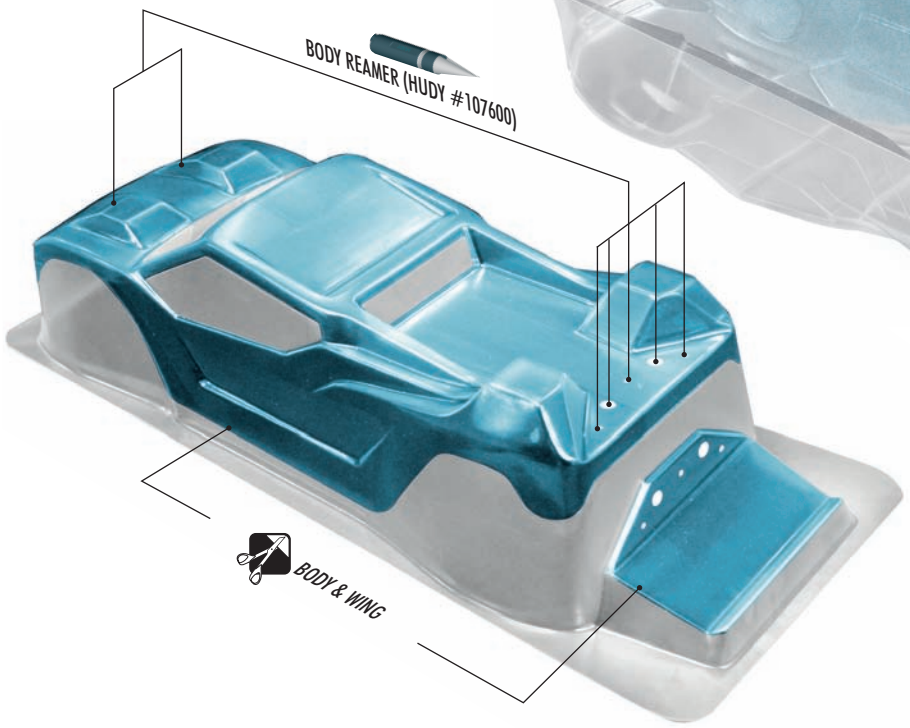
❻ When the paint is dry, remove the masking.

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

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

❾ Assembly rear wing.





OPTION

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

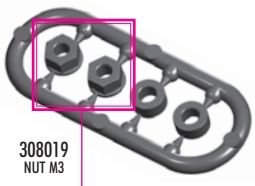


OPTION

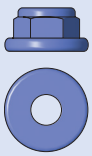
REAR WING		
#323520	HIGH	OPTION
#323521	LOW	OPTION



DETAIL

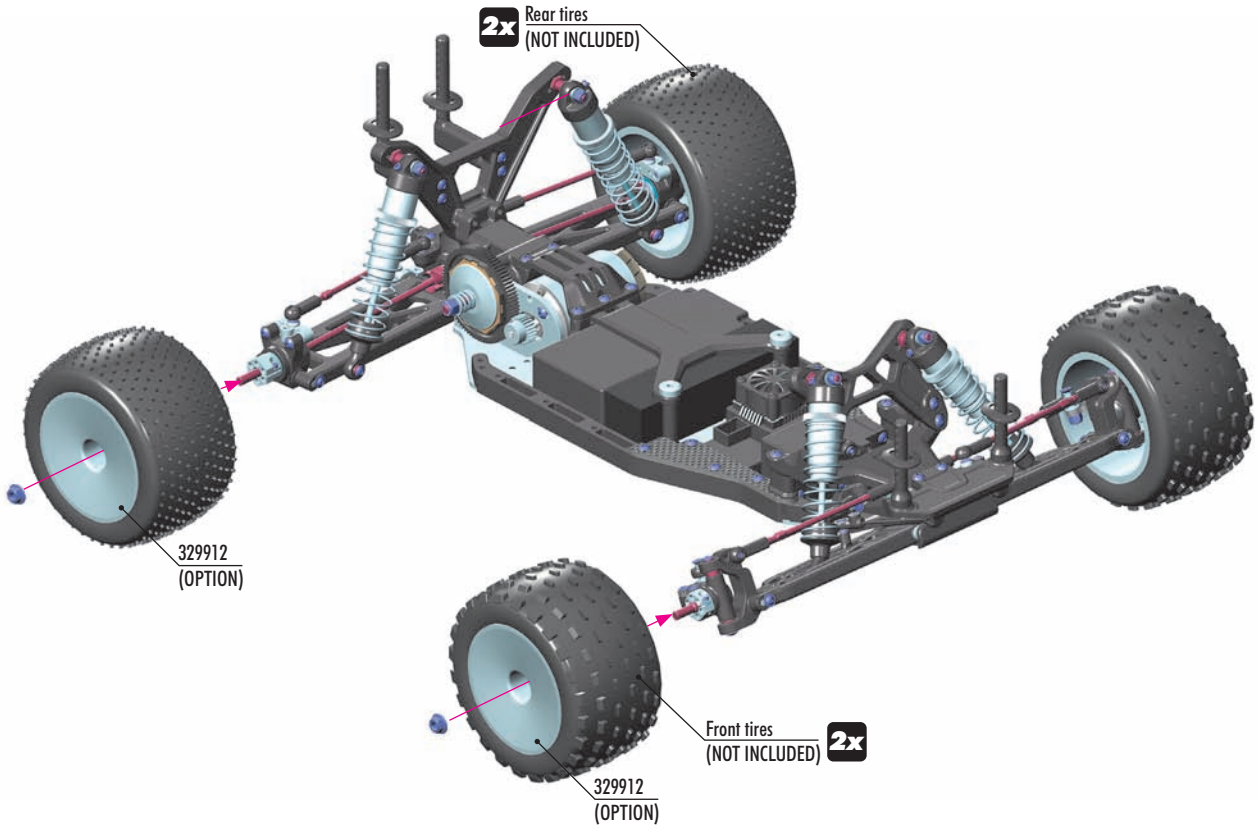


308019
NUT M3

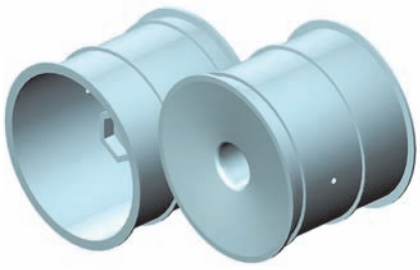


960240
N M4

4x L=R



OPTION
#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.

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

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

❸ Spray the bearing on both sides with motor cleaner.

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

❺ Spray the bearing on both sides again.

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

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

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

❾ Replace both seals at the same time by lining them up on each side of the bearing and lightly pressing them in all the way around the 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



HUDY #106230



HUDY #106220



HUDY #106221



HUDY #106222

SUSPENSION & DRIVETRAIN MAINTENANCE

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



HUDY #106210

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.

SET-UP SHEET

XRAY XT2'19

RACE	
TRACK	
NAME	DATE

LAPS		BEST LAP TIME	sec
QUALIFYING POSITION		FINAL POSITION	

TRACK

SIZE	☐ OPEN	☐ MEDIUM	☐ TIGHT
TRACTION	☐☐☐☐☐☐☐☐☐ VERY-LOW / MEDIUM / VERY-HIGH		
SURFACE	☐ SMOOTH	☐ MEDIUM	☐ BUMPY
TYPE	☐ CLAY	☐ CARPET	☐ ASTRO
CONDITION	☐ BLUE GROOVE	☐ HARD PACKED	☐ DRY
	☐ DUSTY	☐ LOAMY	☐ WET

TRANSMISSION

DIFFERENTIAL	BALL DIFF ☐	☐ GEAR DIFF	OIL cSt
SATELITE GEARS	COMPOSITE ☐	☐ STEEL	
SLIPPER	ADJUSTMENT		mm

GEARING

PINION	T	SPUR GEAR	T

GEAR BOX

3 GEARS ☐	☐ 4 GEARS
FRONT MOTOR ☐	☐ MID MOTOR

FRONT SHOCKS REAR

FRONT		REAR
	SPRINGS	
cSt	OIL	cSt
☐ 2 HOLES	PISTONS	☐ 2 HOLES
☐ 3 HOLES	☐ ø1.2mm ☐	☐ 3 HOLES
☐ 6 HOLES	☐ ø1.3mm ☐	☐ 6 HOLES
HOLES	☐ ø1.4mm ☐	HOLES
	☐ ø1.6mm ☐	
	☐ ø1.7mm ☐	
	ø mm ø mm	
DOWNSTOP SHIM mm		DOWNSTOP SHIM mm
INSERT UNDER PISTON		INSERT UNDER PISTON
LENGTH mm		LENGTH mm
UPSTOP SHIM mm		UPSTOP SHIM mm
INSERT ABOVE COLLAR		INSERT ABOVE COLLAR
KIT	BALL JOINT	KIT

FRONT SHOCK TOWER REAR

GRAPHITE ☐ ☐ COMPOSITE		GRAPHITE ☐ ☐ COMPOSITE

FRONT ANTI ROLL BARS REAR

mm	THICKNESS	mm

FRONT TIRES REAR

FRONT		REAR
	BRAND	
	COMPOUND	
	INSERTS	
	WHEELS	

ELECTRONICS

MOTOR			SPEEDO
MOTOR TIMING			BATTERY

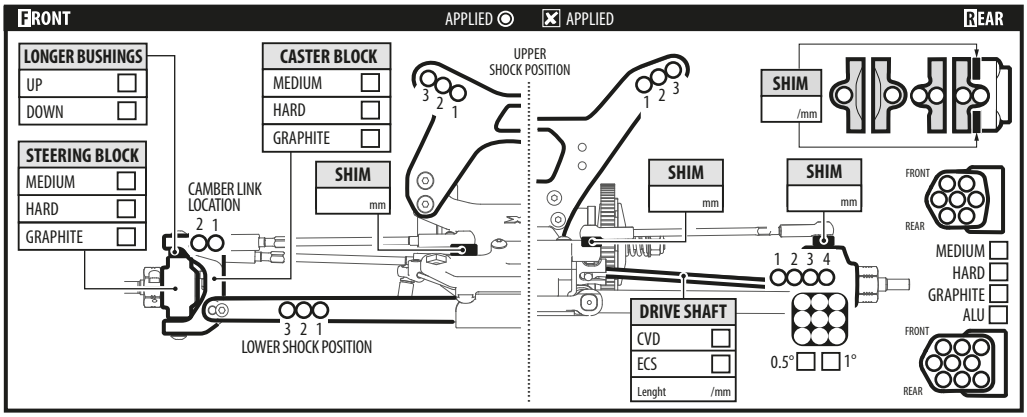
BATTERY LAYOUT

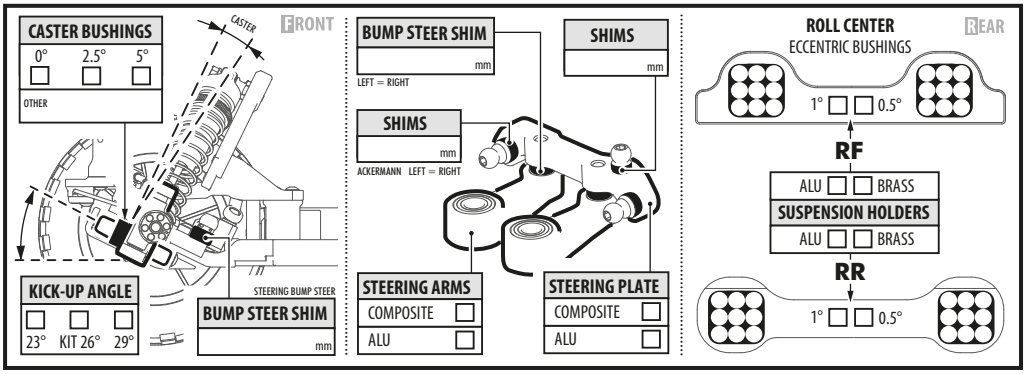
BATTERY PLACEMENT	☐ FRONT	☐ MIDDLE	☐ REAR	
BATTERY SIZE	☐ STD. SHORT	LOW SHORT ☐		

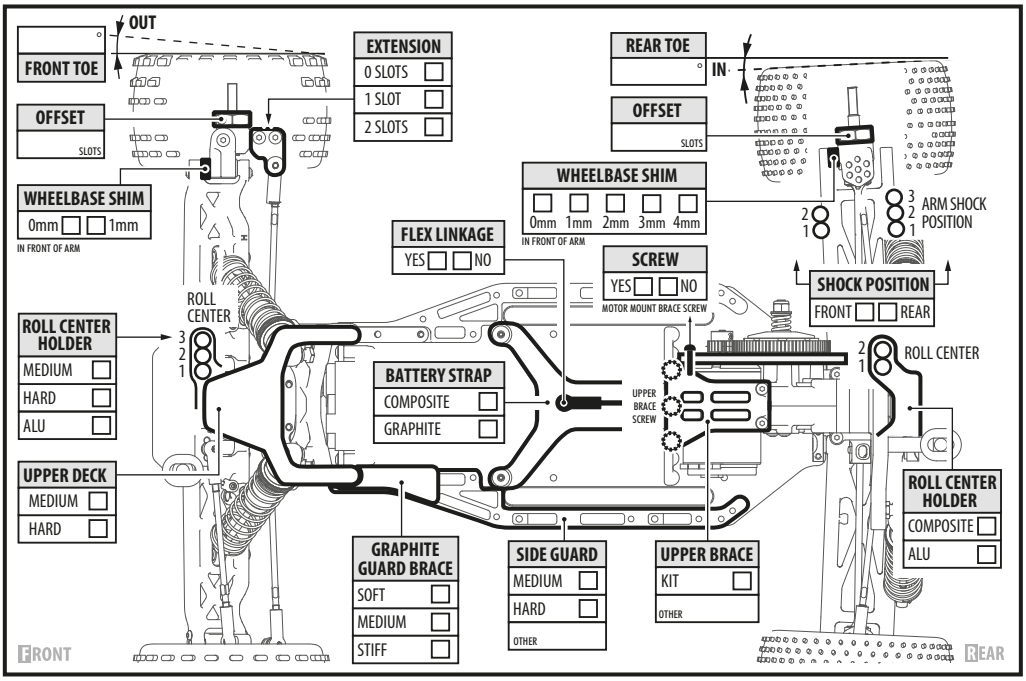
BODY

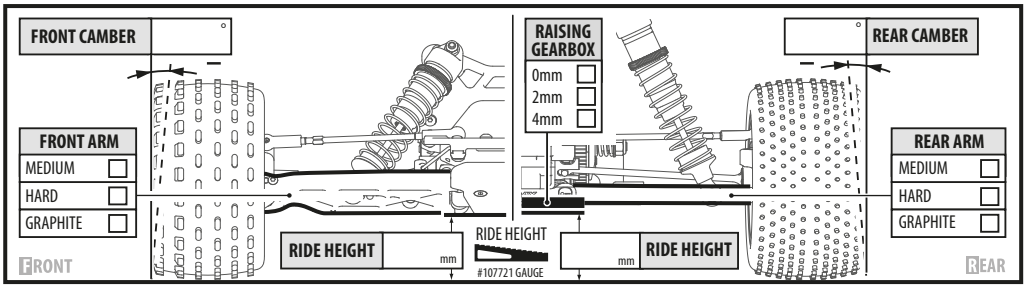
1mm ☐	☐ 0.75mm LIGHT	OTHER

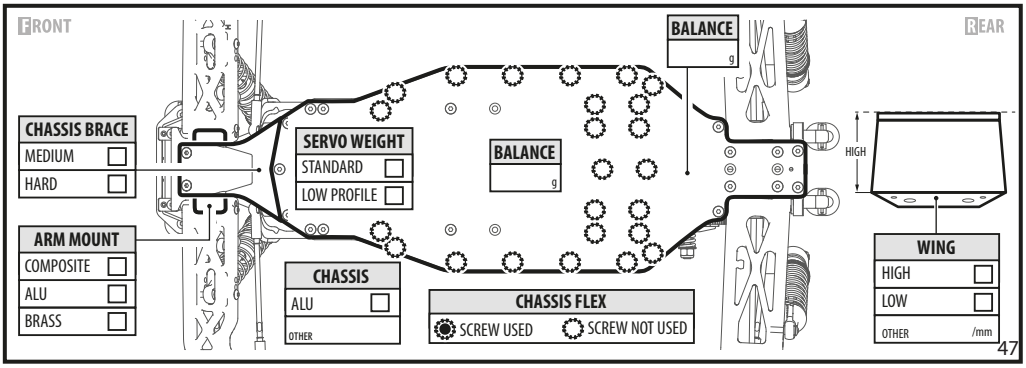
FRONT — APPLIED ◉ ☒ APPLIED — REAR











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