



1/10 LUXURY ELECTRIC OFF-ROAD CAR 2WD

XRAY 2017

CARPET EDITION

**MADE IN
EUROPE**

INSTRUCTION MANUAL

INTRODUCTION

The XRAY XB2 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 XB2 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 XB2.

XB2 was designed around a no compromise platform; the attention to detail creates a low maintenance, extra long life electric buggy. The ultra-low center of gravity (CG) and optimized weight balance makes set-up, driving, and maintenance easy and quick.

CUSTOMER SUPPORT

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

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

www.teamxray.com

The XRAY XB2 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 XB2 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.

XRAY Europe

K Výstavisku 6992
91101 Trenčín
Slovakia, EUROPE
Phone: +421-32-7401100
Fax: +421-32-7401109
Email: info@teamxray.com

XRAY USA

RC America, 2030 Century Center Blvd #15
Irving, TX 75062
USA
Phone: (800) 519-7221 * (214) 744-2400
Fax: (214) 744-2401
Email: xray@rcamerica.com

Failure to follow these instructions will be considered as abuse and/or neglect.

SAFETY PRECAUTIONS

Contains:

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

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

CAUTION: CANCER HAZARD

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

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

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

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



IMPORTANT NOTES - GENERAL

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

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

IMPORTANT NOTES - ELECTRICAL

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

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

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

R/C & BUILDING TIPS

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

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

WARRANTY

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

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

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

Limitations of Liability

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

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

Disregard of the any of the above cautions may lead to accidents, personal injury, or property damage. XRAY MODEL RACING CARS assumes no responsibility for any injury, damage, or misuse of this product during assembly or operation, nor any additions 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) 	Side Cutters (HUDY #189010) 	Hobby Knife 	Combination Pliers (HUDY #189020) 	Reamer (HUDY #107600) or (HUDY #107601)
Tweezer 	HUDY TOOLS: 					

ITEMS INCLUDED

HUDY Premium Silicone Oils Oil 400cSt (#106340) 	HUDY Premium Silicone Oils Oil 500cSt (#106350) 	HUDY Premium Silicone Oils Oil 5000cSt (#106450) 	Graphite Grease (HUDY #106210)
--------------------------------------------------------	--------------------------------------------------------	---------------------------------------------------------	---------------------------------------

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 	Tires & Inserts

NOT INCLUDED

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.



XRAY offers wide range of optional tuning parts which are listed in tables like these. 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.



SAMPLE OF OPTIONAL PARTS

#32XXXX	TYPE	OPTION 1
#32XXXX	TYPE	OPTION 2
#32XXXX	TYPE	INCLUDED
#32XXXX	TYPE	OPTION 3

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.

XB2 TECH TIPS

TIP DRIVE SHAFT PIN SERVICING

To enjoy the longest possible lifespan of the drive shafts and diff outrives, 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.



To replace the worn pins use only premium HUDY drive pins #106051.

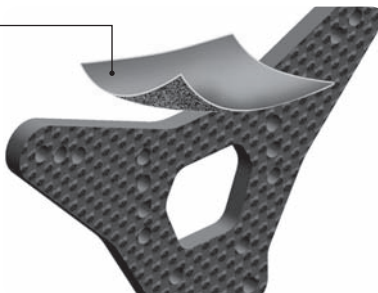
TIP GRAPHITE PARTS PROTECTION

Protect all XB2 Graphite Parts:

- Front shock tower
- Rear shock tower

Fine sandpaper

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

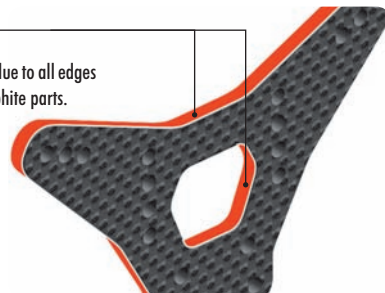


! SHOCK TOWER PROTECTION

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



Apply CA glue to all edges of the graphite parts.

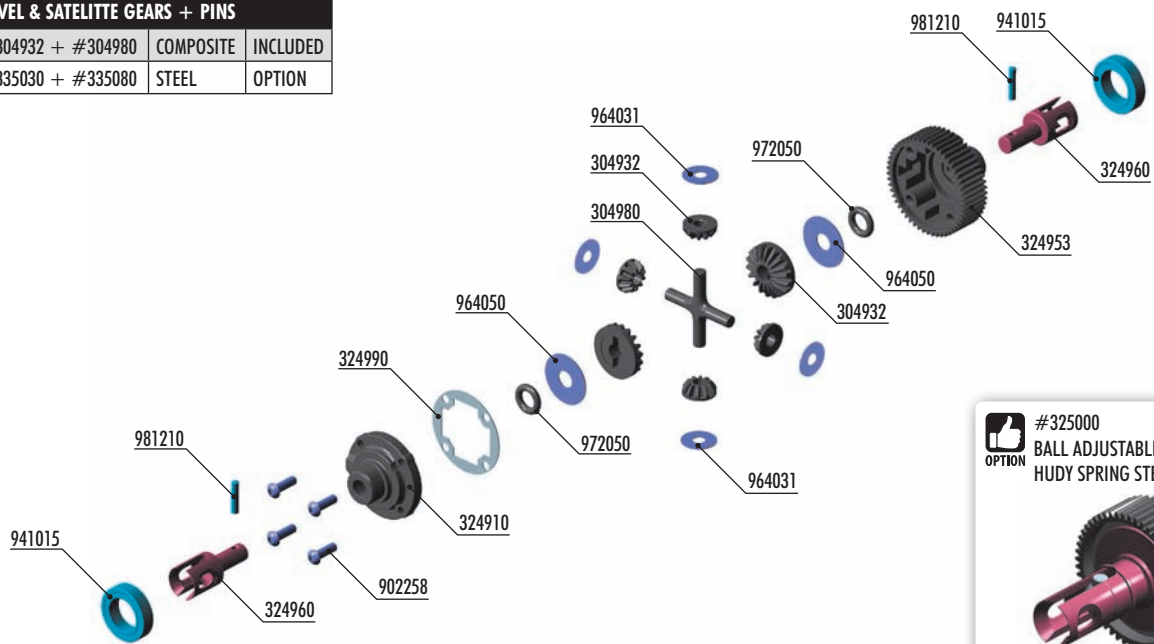


1. REAR DIFFERENTIAL



BEVEL & SATELLITE GEARS + PINS

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



#325000
BALL ADJUSTABLE DIFFERENTIAL SET
HUDY SPRING STEEL™



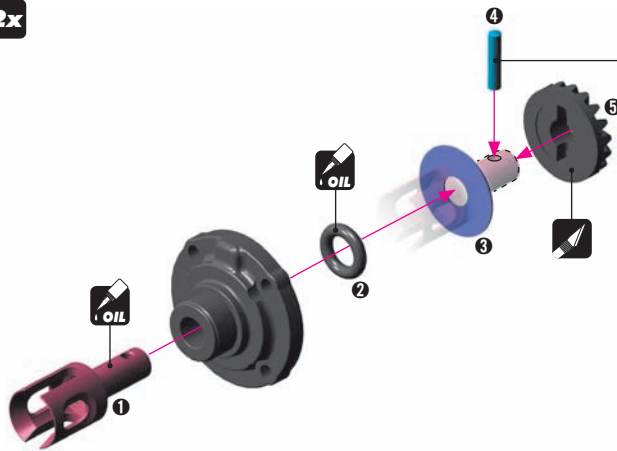
BAG

01

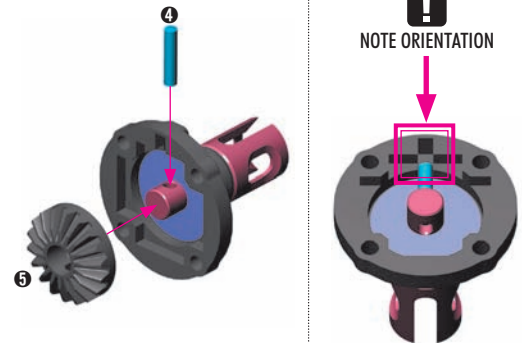
- 30 4932 GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)
- 30 4980 COMPOSITE GEAR DIFF CROSS PIN
- 32 4990 DIFF GASKET (4)
- 32 4900 GEAR DIFFERENTIAL - SET
- 32 4910 COMPOSITE GEAR DIFFERENTIAL CASE
- 32 4953 COMPOSITE GEAR DIFFERENTIAL CASE WITH PULLEY 53T
- 32 4960 GEAR DIFF OUTDRIVE ADAPTER - HUDY SPRING STEEL™ (2)

- 32 5000 BALL ADJUSTABLE DIFFERENTIAL - SET - HUDY SPRING STEEL™ (OPTION)
- 90 2258 HEX SCREW SH M2.5x8 (10)
- 94 1015 HIGH-SPEED BALL-BEARING 10x15x4 RUBBER SEALED (2)
- 96 4031 WASHER S 3.5x10x0.2 (10)
- 96 4050 WASHER S 5x15x0.3 (10)
- 97 2050 SILICONE O-RING 5x2 (10)
- 98 1210 PIN 2x10 (10)

2x



STEP 4 5

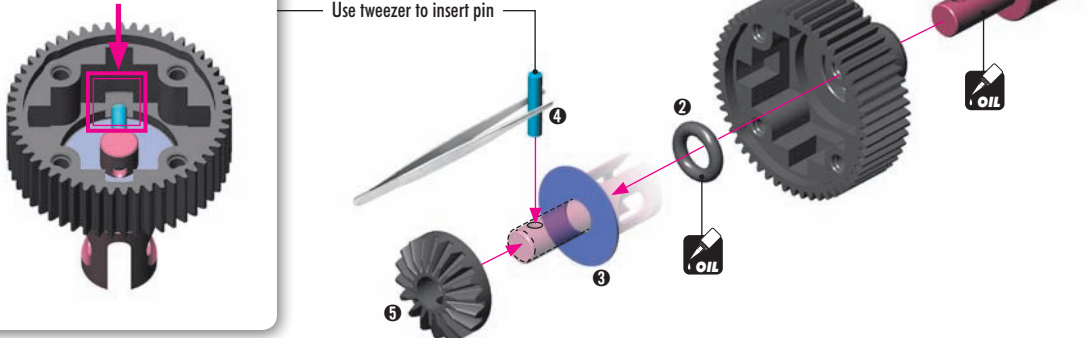


NOTE ORIENTATION



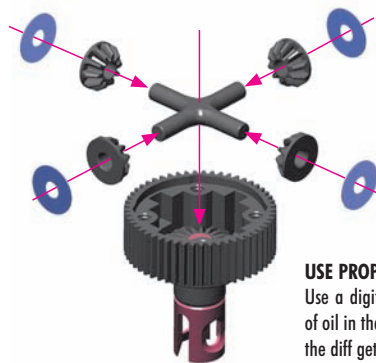
NOTE ORIENTATION

Use tweezers to insert pin





964031
S 3.5x10x0.2



USE PROPER AMOUNT OF OIL IN THE DIFFS

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

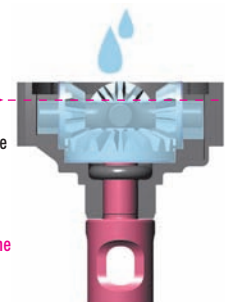


Rear diff

Silicone oil **5 000cSt**
Fill just above the diff pin.



Fill differential up to the top of the diff pin.



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

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



1 Put the diff (without oil) on the scale and check the weight (approximately 11.23g)

#107865

HUDY Ultimate Digital Pocket Scale 300g ± 0.01g



2 Slowly pour oil into the diff and watch the weight. Add 0.95g of oil into the diff. The approximate weight of the diff including oil is 12.18g.

TIP TIPS FOR REAR DIFFERENTIAL

LOW-MEDIUM TRACTION 3 000cSt (HUDY #106430)
MEDIUM-HIGH TRACTION 5 000cSt (HUDY #106450)

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



OPTION

HUDY ULTIMATE SILICONE OILS

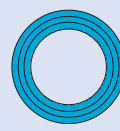
#106410	1000 cSt - 50ml	OPTION
#106420	2000 cSt - 50ml	OPTION
#106430	3000 cSt - 50ml	OPTION
#106450	5000 cSt - 50ml	INCLUDED
#106460	6000 cSt - 50ml	OPTION
#106470	7000 cSt - 50ml	OPTION



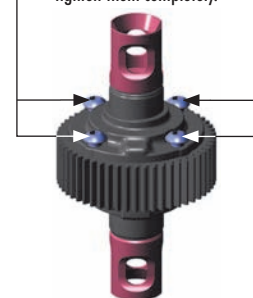
902258
SH M2.5x8



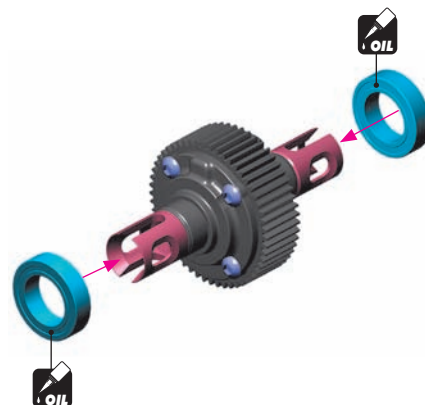
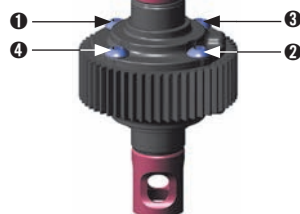
941015
BB 10x15x4



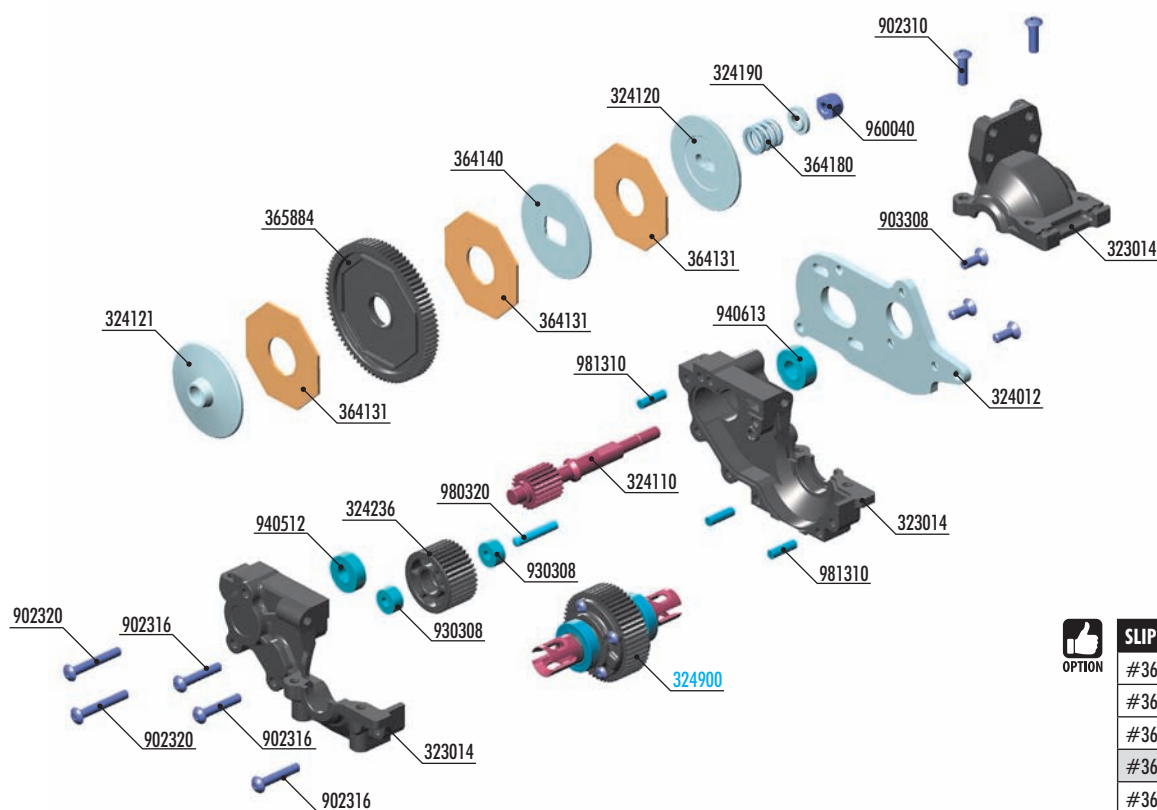
Tighten the screws equally but do NOT tighten them completely.



Finish tightening in this order.



2. REAR TRANSMISSION



SLIPPER CLUTCH SPUR GEARS

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

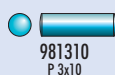
BAG

02

32 3014 COMPOSITE FRONT-MID MOTOR GEAR BOX (3 GEARS) SET
 32 4012 ALU FRONT-MID MOTOR (3 GEARS) PLATE - SWISS 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 5875 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 75T / 48 (OPTION)
 36 5878 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 78T / 48 (OPTION)
 36 5881 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 81T / 48 (OPTION)

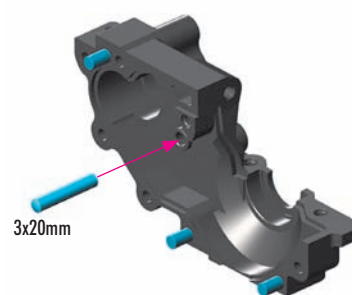
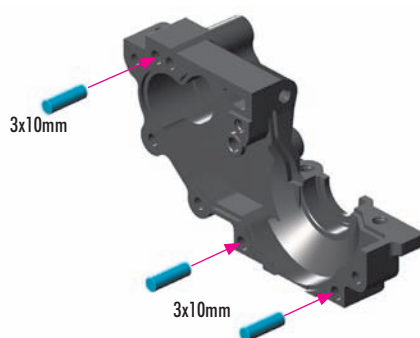
36 5884 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 84T / 48
 36 5887 COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 87T / 48 (OPTION)
 90 2310 HEX SCREW SH M3x10 (10)
 90 2316 HEX SCREW SH M3x16 (10)
 90 2320 HEX SCREW SH M3x20 (10)
 90 3308 HEX SCREW SFH M3x8 (10)
 93 0308 BALL-BEARING 3x8x4 (2)
 94 0512 HIGH-SPEED 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 4900 GEAR DIFFERENTIAL - SET

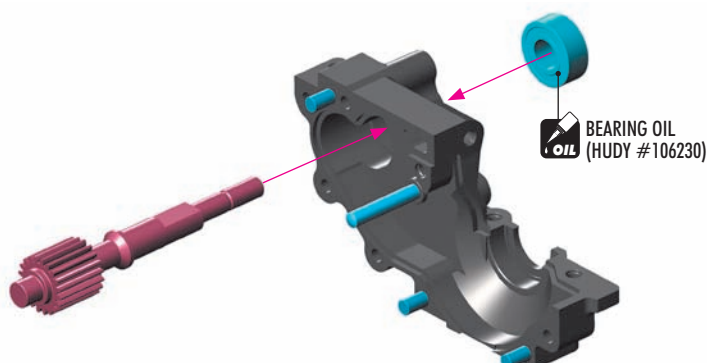


981310
P 3x10

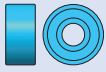
980320
P 3x20



940613
BB 6x13x5

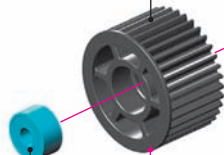


REAR TRANSMISSION



930308
BB 3x8x4

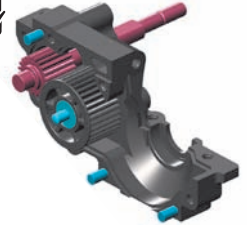
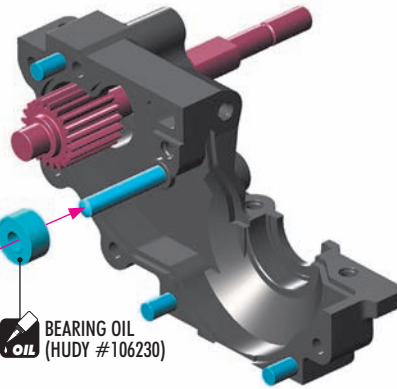
GRAPHITE GREASE
(HUDY #106210)



NOTE ORIENTATION



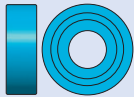
BEARING OIL
(HUDY #106230)



902316
SH M3x16

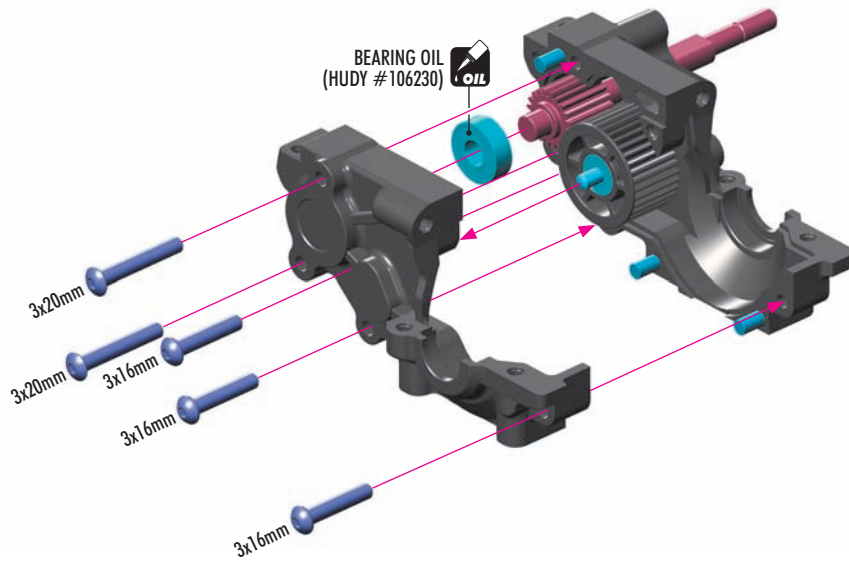


902320
SH M3x20

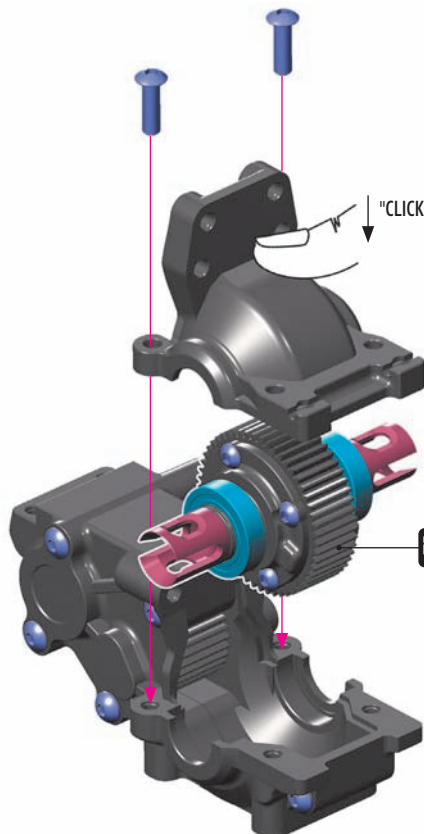


940512
BB 5x12x4

BEARING OIL
(HUDY #106230)



902310
SH M3x10



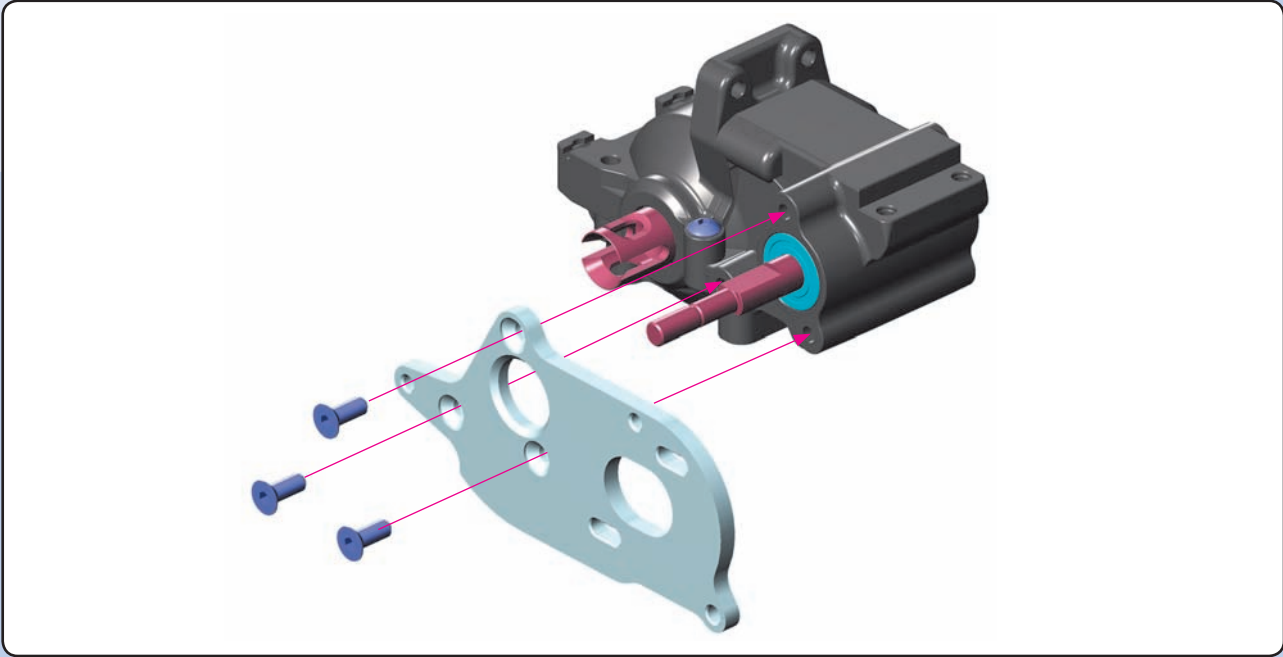
GRAPHITE GREASE
(HUDY #106210)

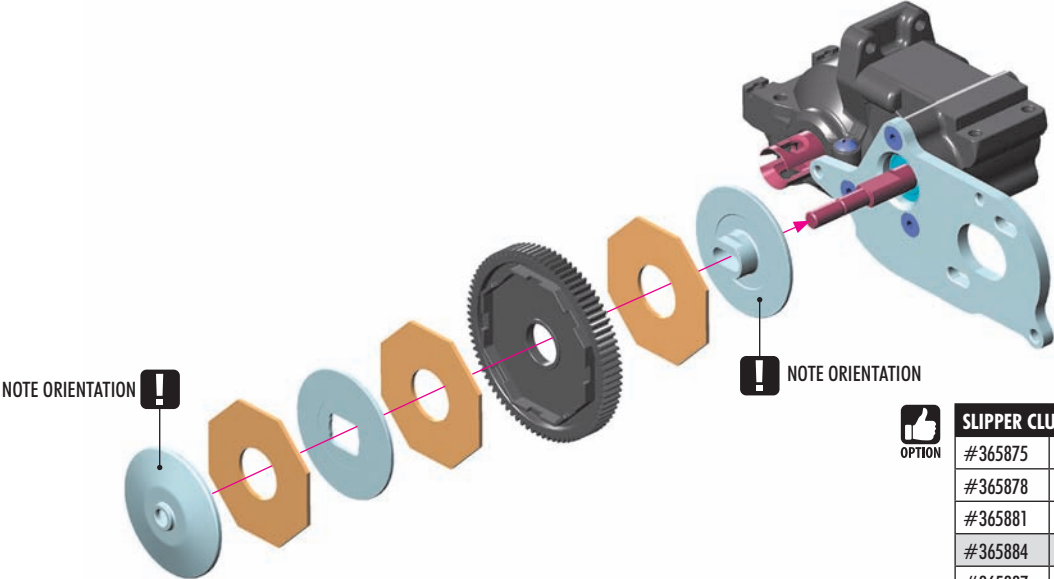
"CLICK"

REAR TRANSMISSION



903308
SFH M3x8






NOTE ORIENTATION !

! NOTE ORIENTATION

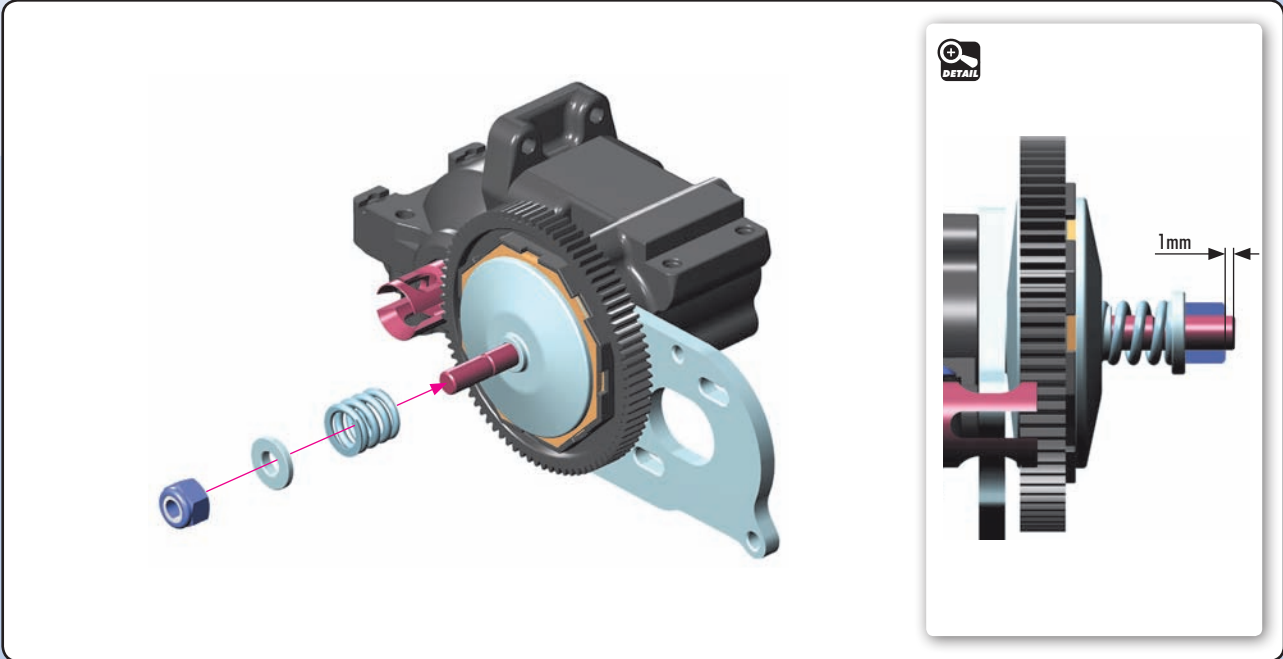
SLIPPER CLUTCH SPUR GEARS		
#365875	75T / 48	OPTION
#365878	78T / 48	OPTION
#365881	81T / 48	OPTION
#365884	84T / 48	INCLUDED
#365887	87T / 48	OPTION



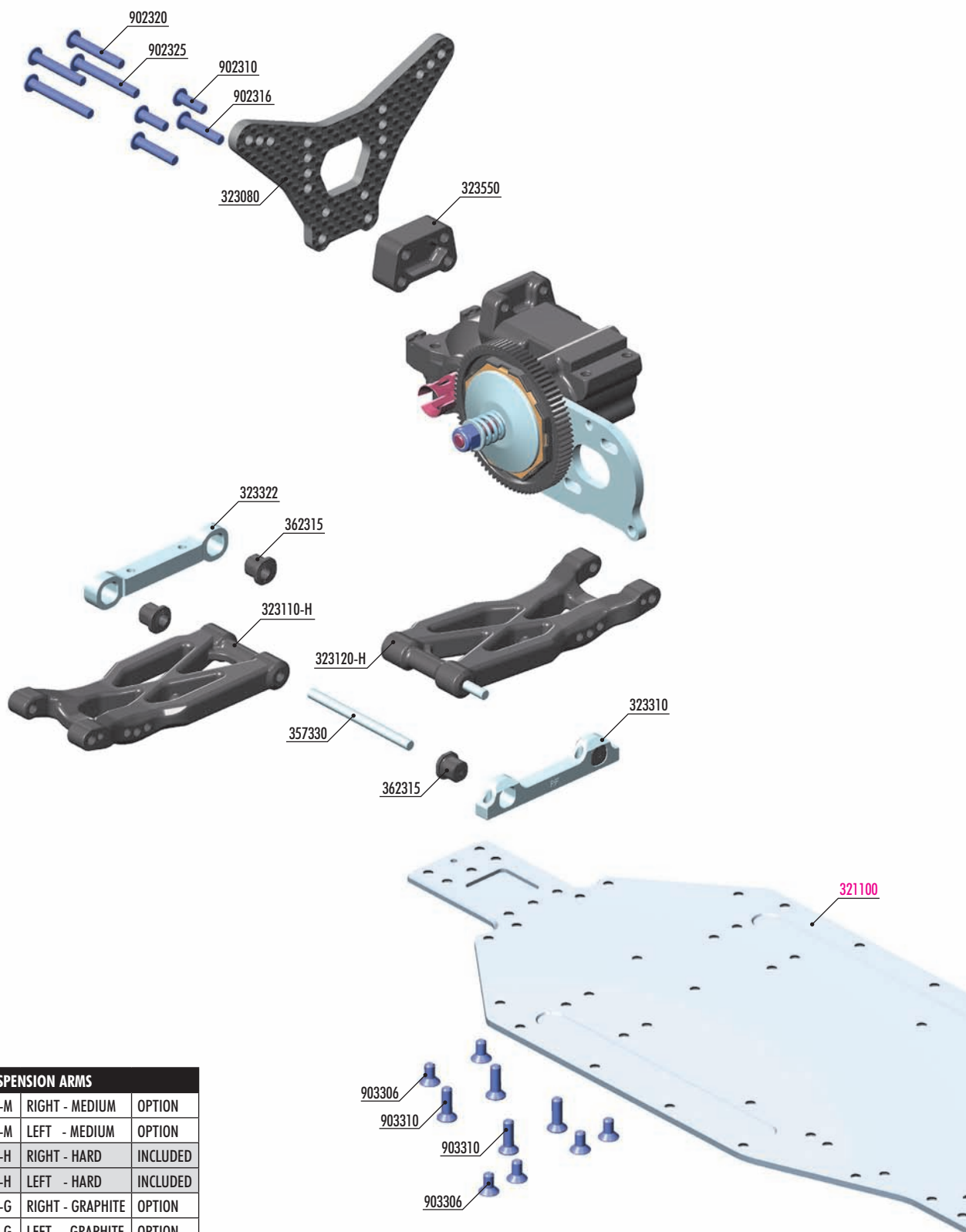
OPTION



960040
N M4



3. REAR SUSPENSION



REAR SUSPENSION ARMS

Part Number	Description	Status
#323110-M	RIGHT - MEDIUM	OPTION
#323120-M	LEFT - MEDIUM	OPTION
#323110-H	RIGHT - HARD	INCLUDED
#323120-H	LEFT - HARD	INCLUDED
#323110-G	RIGHT - GRAPHITE	OPTION
#323120-G	LEFT - GRAPHITE	OPTION

BAG

03

32 3080	GRAPHITE SHOCK TOWER REAR 3.5MM
32 3110-M	COMPOSITE SUSPENSION ARM REAR LOWER RIGHT - MEDIUM (OPTION)
32 3110-H	COMPOSITE SUSPENSION ARM REAR LOWER RIGHT - HARD
32 3110-G	COMPOSITE SUSP. ARM REAR LOWER RIGHT - GRAPHITE (OPTION)
32 3120-M	COMPOSITE SUSPENSION ARM REAR LOWER LEFT - MEDIUM (OPTION)
32 3120-H	COMPOSITE SUSPENSION ARM REAR LOWER LEFT - HARD
32 3120-G	COMPOSITE SUSP. ARM REAR LOWER LEFT - GRAPHITE (OPTION)
32 3310	ALU REAR LOWER SUSP. HOLDER - FRONT - SWISS 7075 T6 (5MM)
32 3322	ALU REAR LOWER SUSP. HOLDER - REAR - SWISS 7075 T6 (5MM)
32 3550	COMPOSITE REAR SHOCK TOWER ADJUSTING SHIM
35 7330	REAR LOWER OUTER PIVOT PIN (2)

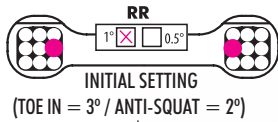
36 2315	ECCENTRIC BUSHING SET (2)
90 2310	HEX SCREW SH M3x10 (10)
90 2316	HEX SCREW SH M3x16 (10)
90 2320	HEX SCREW SH M3x20 (10)
90 2325	HEX SCREW SH M3x25 (10)
90 3306	HEX SCREW SFH M3x6 (10)
90 3310	HEX SCREW SFH M3x10 (10)

32 1100 ALU CHASSIS - SWISS 7075 T6 (2MM)

REAR SUSPENSION



903306
SFH M3x6

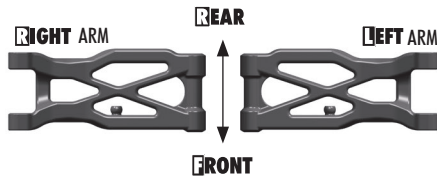


INITIAL SETTING
(TOE IN = 3° / ANTI-SQUAT = 2°)

RIGHT



L=R



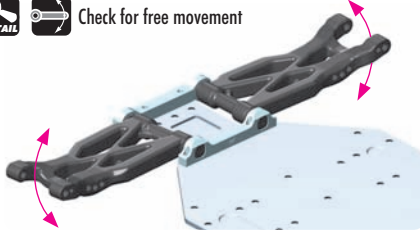
TIP L=R

If the suspension arm does not move freely use a HUDY Arm Reamer to size the holes of the arms

Arm Reamer 3.0mm
(HUDY #107633)



Check for free movement



SET-UP BOOK

TOE-IN
ANTI-SQUAT
ROLL CENTER
TRACK-WIDTH

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.

THREAD LOCK
(all screws)

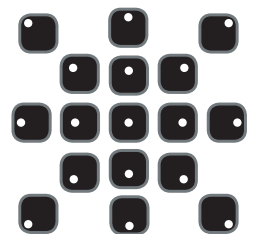


REAR SUSPENSION ARMS

OPTION	REAR SUSPENSION ARMS	OPTION
#323110-M	RIGHT - MEDIUM	OPTION
#323120-M	LEFT - MEDIUM	OPTION
#323110-H	RIGHT - HARD	INCLUDED
#323120-H	LEFT - HARD	INCLUDED
#323110-G	RIGHT - GRAPHITE	OPTION
#323120-G	LEFT - GRAPHITE	OPTION

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

All possible mounting
alternatives of eccentric bushings



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

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

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

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

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

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

Example:

$$0(RR) - 0(RF) = 2^\circ$$

$$0(RR) - 0.5(RF) = 2.5^\circ$$

$$0(RR) - 1(RF) = 3^\circ$$

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

ALTERNATIVE 1

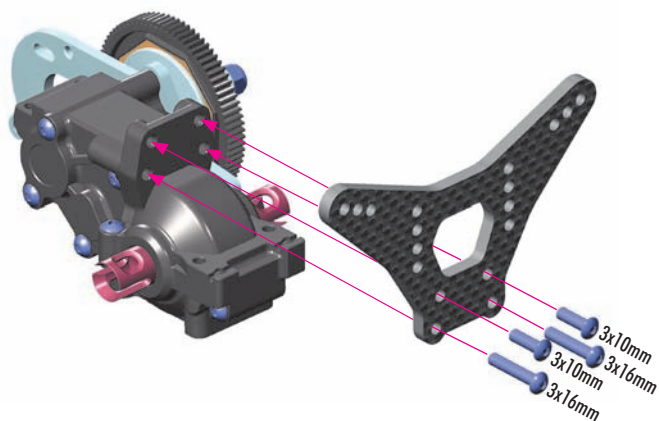
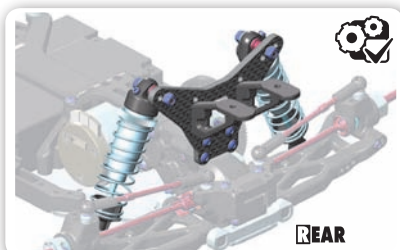
SHOCKS MOUNTED IN FRONT OF REAR SHOCK TOWER
(INITIAL SETTING)



902310
SH M3x10



902316
SH M3x16



ALTERNATIVE 2

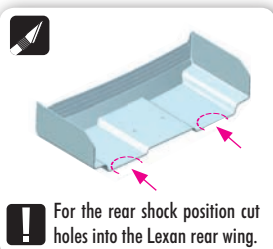
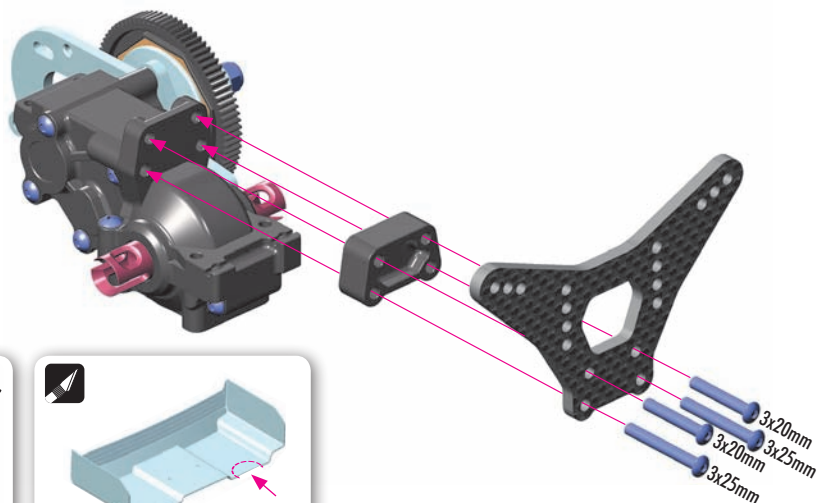
SHOCKS MOUNTED BEHIND REAR SHOCK TOWER
DO NOT USE FOR BASIC SET-UP



902320
SH M3x20



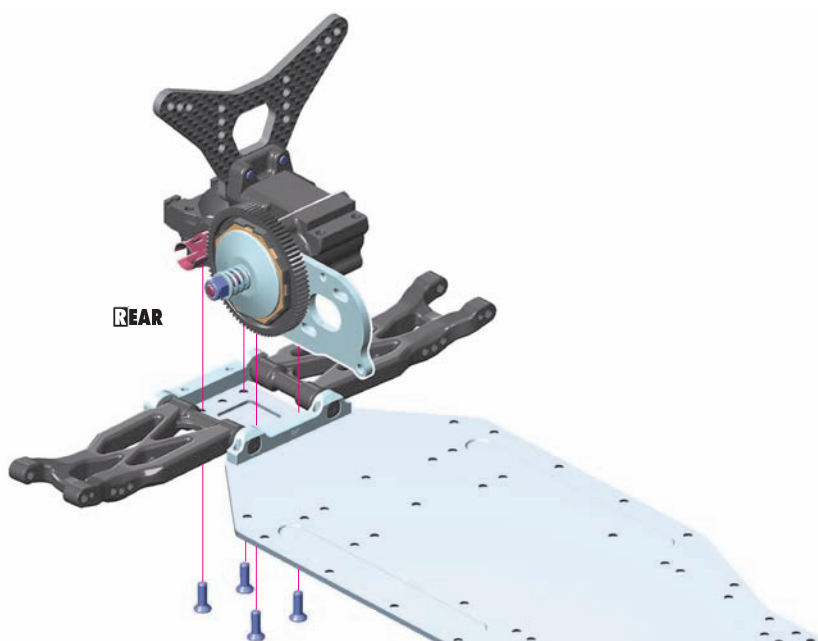
902325
SH M3x25



! For the rear shock position cut holes into the Lexan rear wing.



903310
SFH M3x10



3. REAR DRIVETRAIN



DRIVE SHAFT COLLAR

#365470	COMPOSITE	INCLUDED
#365471-K	ALU - BLACK	OPTION
#365471-0	ALU - ORANGE	OPTION



REAR UPRIGHTS

#323350-M	MEDIUM	OPTION
#323350-H	HARD	INCLUDED
#323351	ALU	OPTION



WHEEL HUBS 12MM

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

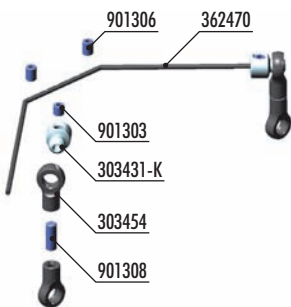


REAR ROLL CENTER HOLDER

#323040	COMPOSITE	INCLUDED
#323041	ALU	OPTION

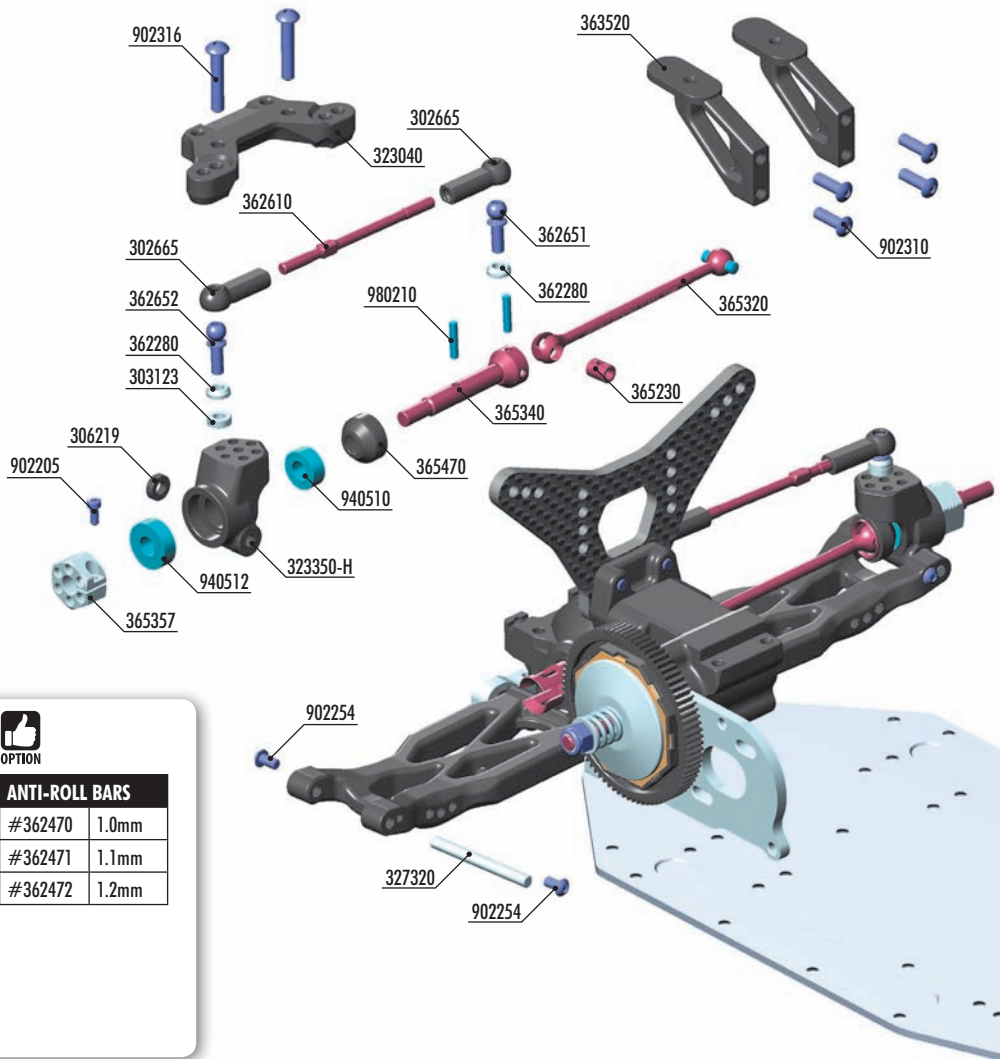


#362400 - ANTI-ROLL BAR 1.0MM SET



ANTI-ROLL BARS

#362470	1.0mm
#362471	1.1mm
#362472	1.2mm

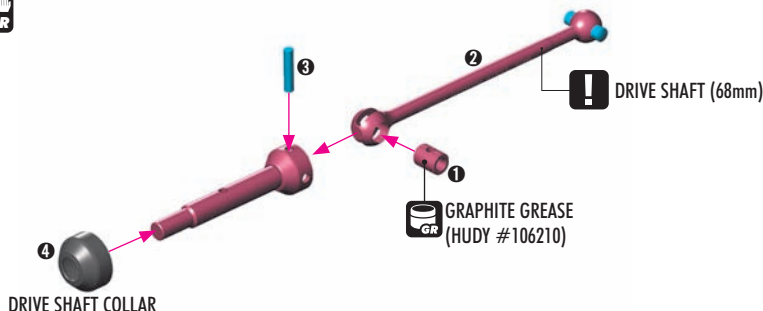


30 2665	COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
30 3123	ALU SHIM 3x6x2.0MM (10)
30 3431-K	ALU 4.9MM BALL END - BLACK (2) (OPTION)
30 3454	BALL JOINT 4.9MM - OPEN (4) (OPTION)
30 6219	COMPOSITE SET OF SERVO SHIMS (4)
32 3040	COMPOSITE REAR ROLL CENTER HOLDER - CARPET EDITION
32 3041	ALU REAR ROLL CENTER HOLDER - SWISS 7075 T6 (OPTION)
32 3350-M	COMPOSITE UPRIGHT REAR - MEDIUM (OPTION)
32 3350-H	COMPOSITE UPRIGHT REAR - HARD
32 3351	ALU REAR UPRIGHT - SWISS 7075 T6 (OPTION)
32 7320	REAR ARM PIVOT PIN (2)
36 2280	ALU CONICAL SHIM 3x6x2.0MM (10)
36 2470	ANTI-ROLL BAR 1.0 MM (OPTION)
36 2471	ANTI-ROLL BAR 1.1 MM (OPTION)
36 2472	ANTI-ROLL BAR 1.2 MM (OPTION)
36 2610	ADJUSTABLE TURNBUCKLE 50MM M3 L/R - HUDY SPRING STEEL™ (2)
36 2651	BALL END 4.9MM WITH THREAD 8MM (2)
36 2652	BALL END 4.9MM WITH THREAD 10MM (2)
36 3520	REAR WING POST - V2 (2)

36 5230	DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
36 5320	REAR DRIVE SHAFT 68MM - HUDY SPRING STEEL™
36 5340	REAR DRIVE AXLE - HUDY SPRING STEEL™
36 5357	ALU WHEEL HUB 12MM - OFFSET "+2.25MM" (2)
36 5470	COMPOSITE DRIVE SHAFT SAFETY COLLAR - V2 (3)
90 1303	HEX SCREW SB M3x3 (10) (OPTION)
90 1306	HEX SCREW SB M3x6 (10) (OPTION)
90 1308	HEX SCREW SB M3x8 (10) (OPTION)
90 2205	HEX SCREW SH M2x5 (10)
90 2254	HEX SCREW SH M2.5x4 (10)
90 2310	HEX SCREW SH M3x10 (10)
90 2316	HEX SCREW SH M3x16 (10)
94 0510	HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2)
94 0512	HIGH-SPEED BALL-BEARING 5x12x4 RUBBER SEALED (2)
98 0210	PIN 2x9.8 (10)

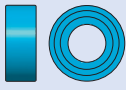


980210
P 2x10

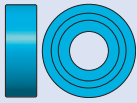


DRIVE SHAFT COLLAR

#365470	COMPOSITE	INCLUDED
#365471-K	ALU - BLACK	OPTION
#365471-O	ALU - ORANGE	OPTION



940510
BB 5x10x4



940512
BB 5x12x4

2x

BEARING OIL
(HUDY #106230)



5x10x4mm



REAR UPRIGHTS

#323350-M	MEDIUM	OPTION
#323350-H	HARD	INCLUDED
#323351	ALU	OPTION

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

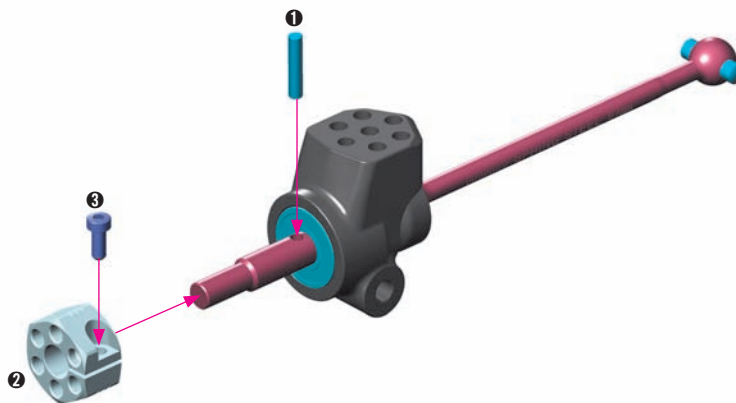


980210
P 2x10



902205
SH M2x5

2x



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

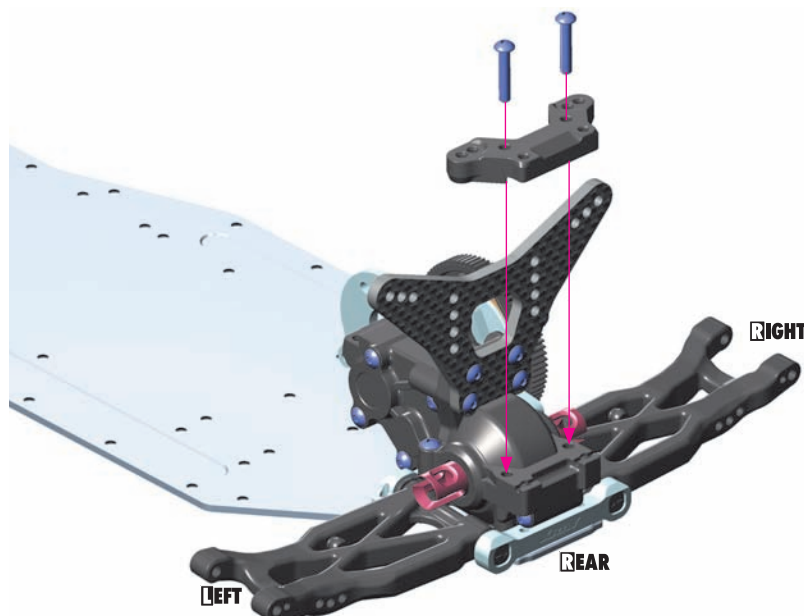
Rear - less traction
Front - less steering

WHEEL HUBS 12MM

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



902316
SH M3x16



REAR ROLL CENTER HOLDER

#323040	COMPOSITE	INCLUDED
#323041	ALU	OPTION

COMPOSITE - For low, medium & high traction
ALU - For very-high traction

REAR DRIVETRAIN

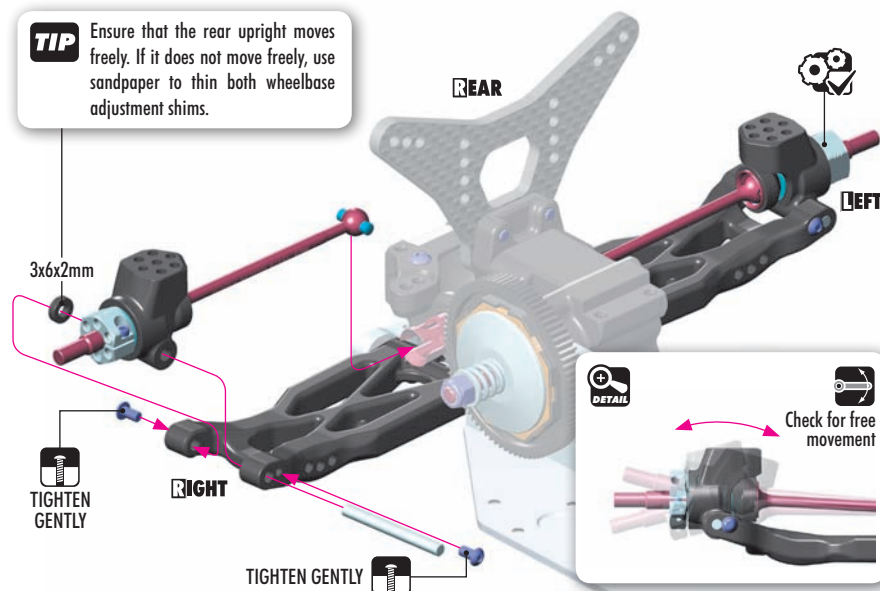
IO

306219
SHIM 3x6x2



902254
SH M2.5x4

TIP Ensure that the rear upright moves freely. If it does not move freely, use sandpaper to thin both wheelbase adjustment shims.



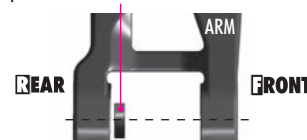
LONGER WHEELBASE

Adjustment Shim **IN FRONT OF HUB** moves hub rearward.



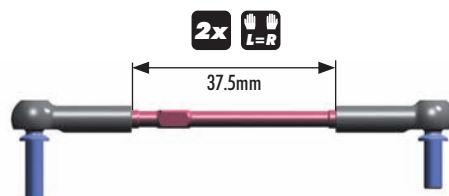
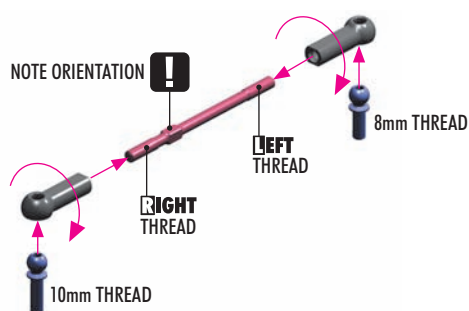
SHORTER WHEELBASE (INITIAL SETTING)

Adjustment Shim **BEHIND HUB** moves hub forward.



2x **L=R**

NOTE ORIENTATION



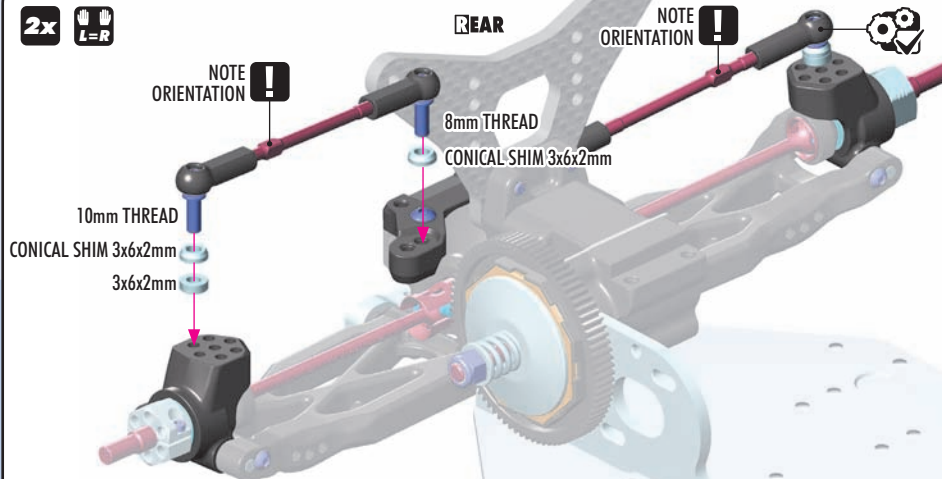
303123
SHIM 3x6x2



362280
CON. SHIM 3x6x2

2x **L=R**

NOTE ORIENTATION



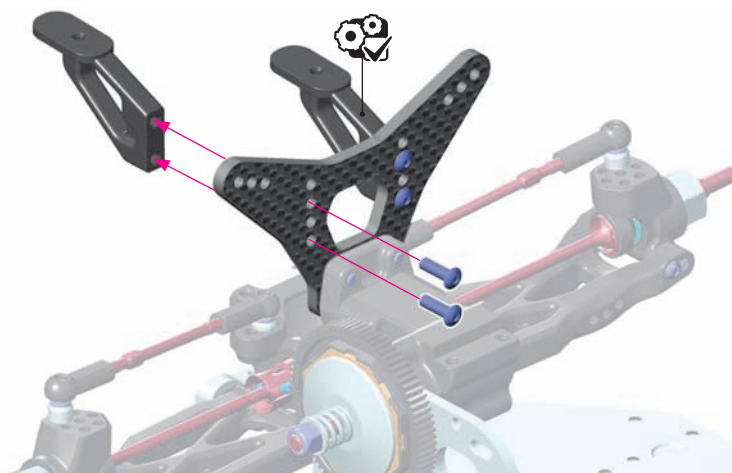
INITIAL SETTING



INITIAL SETTING

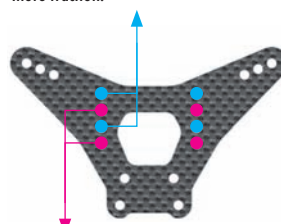


902310
SH M3x10



UPPER WING POSITION

Higher position gives more roll, generates more traction.



LOWER WING POSITION (INITIAL SETTING)

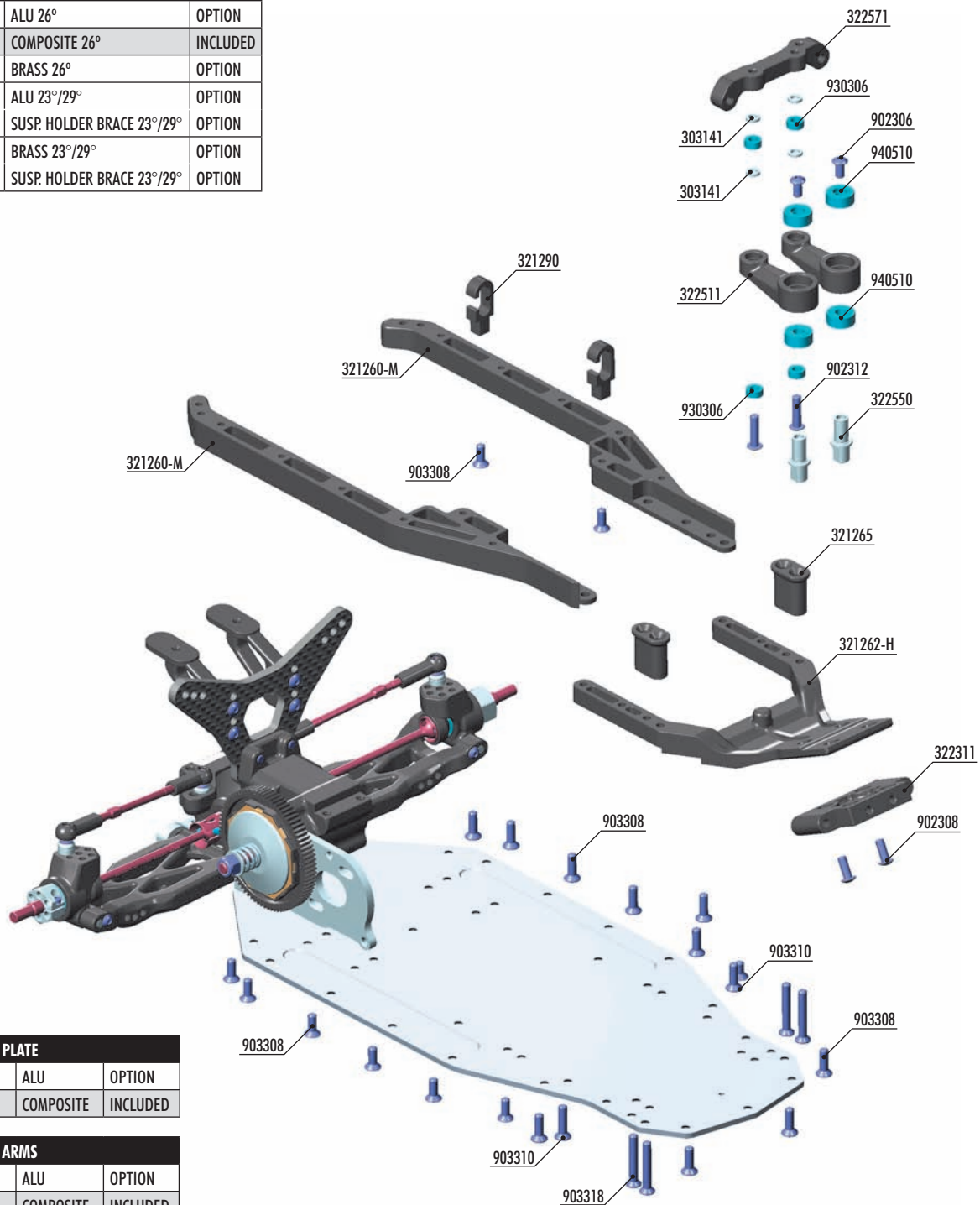
Standard position recommended for use on medium- to high-traction tracks.

4. FRONT ASSEMBLY



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



STEERING PLATE

#322570	ALU	OPTION
#322571	COMPOSITE	INCLUDED



STEERING ARMS

#322510	ALU	OPTION
#322511	COMPOSITE	INCLUDED



FRONT LOWER CHASSIS BRACE

#321262-M	MEDIUM	OPTION
#321262-H	HARD	INCLUDED



SIDE CHASSIS GUARDS

#321260-M	MEDIUM	INCLUDED
#321260-H	HARD	OPTION

BAG

04

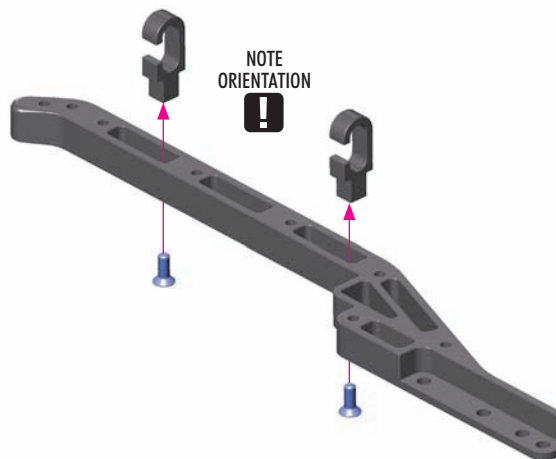
30 3141	ALU SHIM 3x5x1.0MM (10)
32 1260-M	COMPOSITE CHASSIS SIDE GUARDS L + R - MEDIUM
32 1260-H	COMPOSITE CHASSIS SIDE GUARDS L + R - HARD (OPTION)
32 1262-M	COMPOSITE CHASSIS FRONT GUARD - MEDIUM (OPTION)
32 1262-H	COMPOSITE CHASSIS FRONT GUARD - HARD
32 1265	COMPOSITE FRONT CHASSIS SIDE BRACE (2)
32 1290	COMPOSITE WIRE HOLDER (2)
32 2310	ALU FRONT LOWER ARM MOUNT 26° KICK-UP (OPTION)
32 2311	COMPOSITE FRONT LOWER SUSPENSION HOLDER
32 2312	BRASS 46G FRONT LOWER ARM MOUNT 26° KICK-UP (OPTION)
32 2313	ALU FRONT LOWER ARM MOUNT 23°/29° KICK-UP (OPTION)
32 2314	BRASS 46G LOWER FRONT ARM MOUNT 23°/29° KICK-UP (OPTION)
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 (2)
94 0510	HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2)

FRONT ASSEMBLY



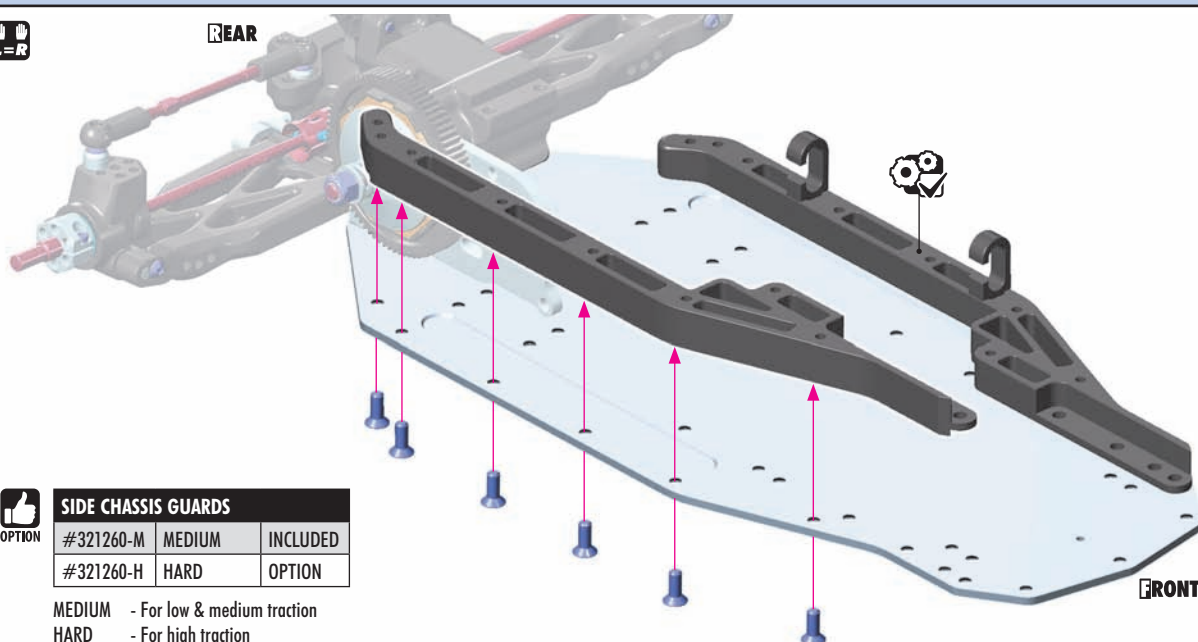
903308
SFH M3x8



903308
SFH M3x8



REAR



SIDE CHASSIS GUARDS

#	TRACTION	STATUS
#321260-M	MEDIUM	INCLUDED
#321260-H	HARD	OPTION

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



903308
SFH M3x8



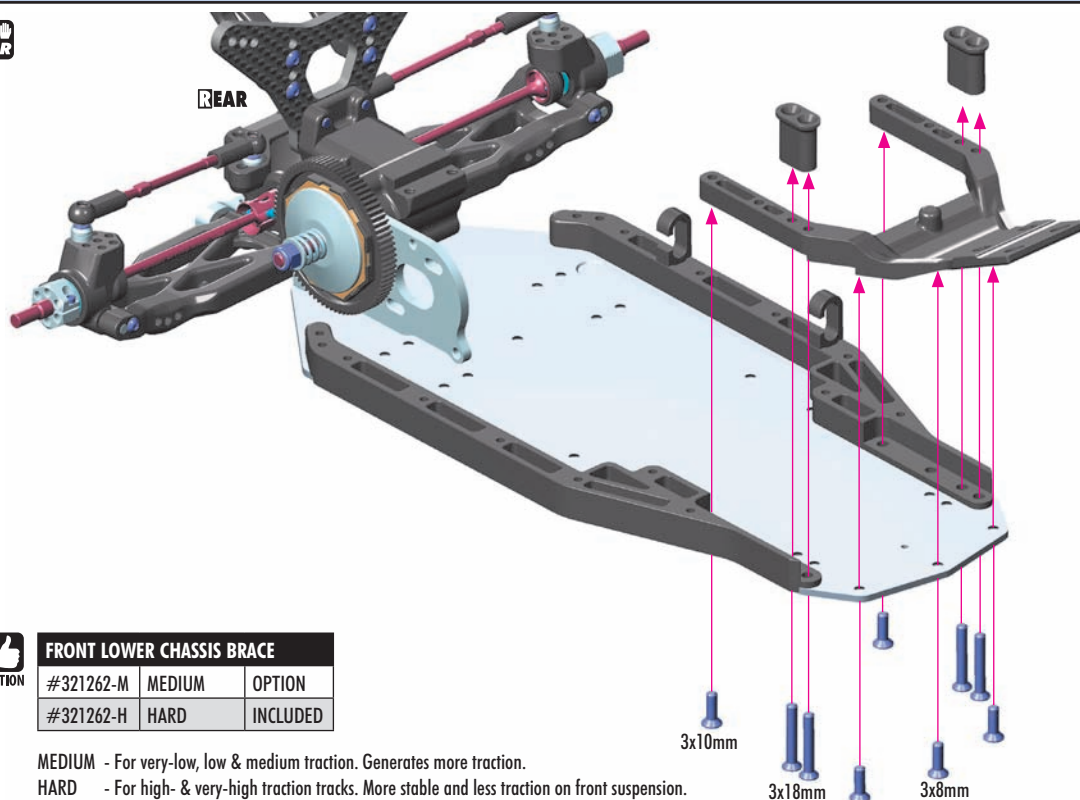
903310
SFH M3x10



903318
SFH M3x18



REAR



FRONT LOWER CHASSIS BRACE

#	TRACTION	STATUS
#321262-M	MEDIUM	OPTION
#321262-H	HARD	INCLUDED

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

3x10mm

3x18mm

3x8mm

FRONT



303141
SHIM 3x5x1



902312
SH M3x12



930306
BB 3x6x2.5



OPTION

STEERING PLATE		
#322570	ALU	OPTION
#322571	COMPOSITE	INCLUDED

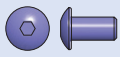
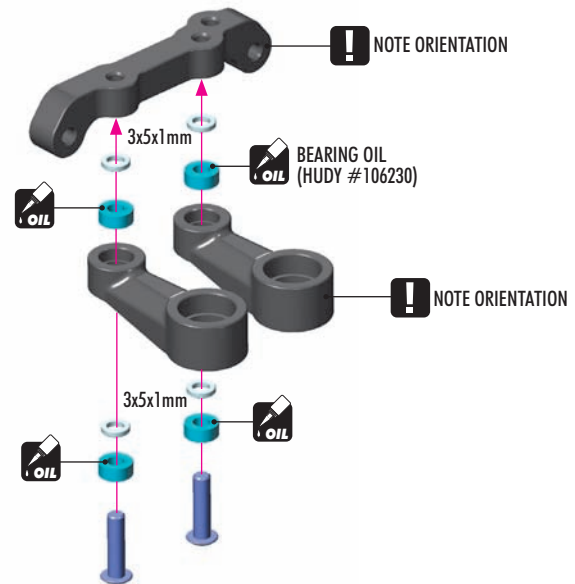
COMPOSITE - Easy to drive, more forgiving, less steering
ALU - More aggressive, more steering, more precise steering



OPTION

STEERING ARMS		
#322510	ALU	OPTION
#322511	COMPOSITE	INCLUDED

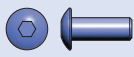
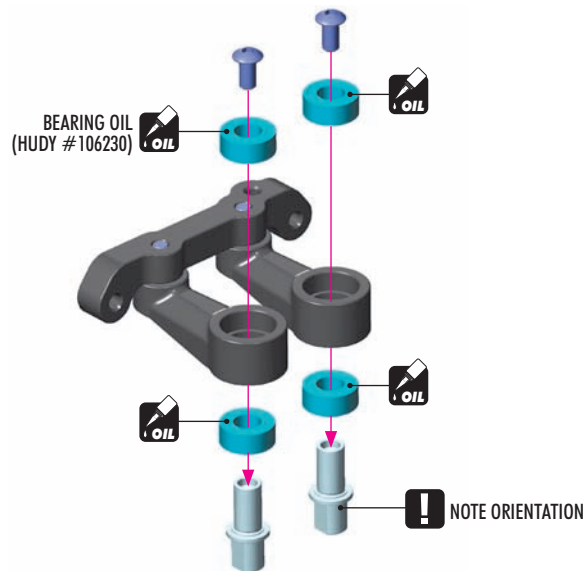
COMPOSITE - Easy to drive, more forgiving
ALU - More aggressive, more precise steering



902306
SH M3x6



940510
BB 5x10x4



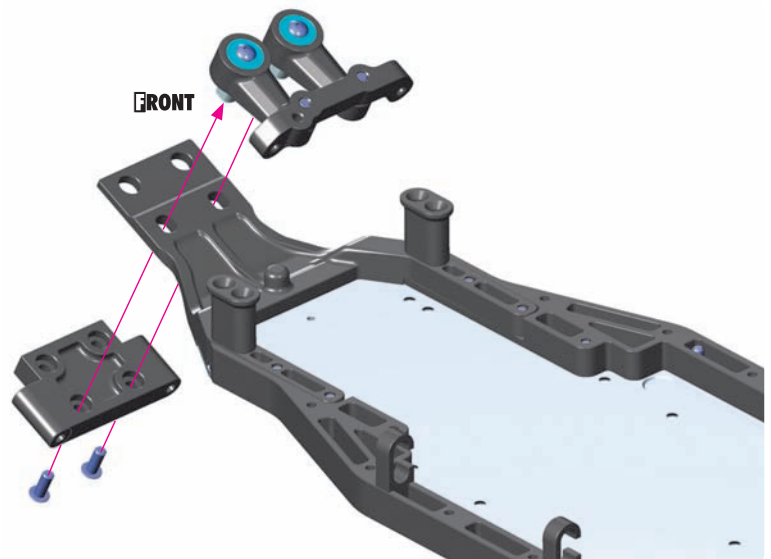
902308
SH M3x8



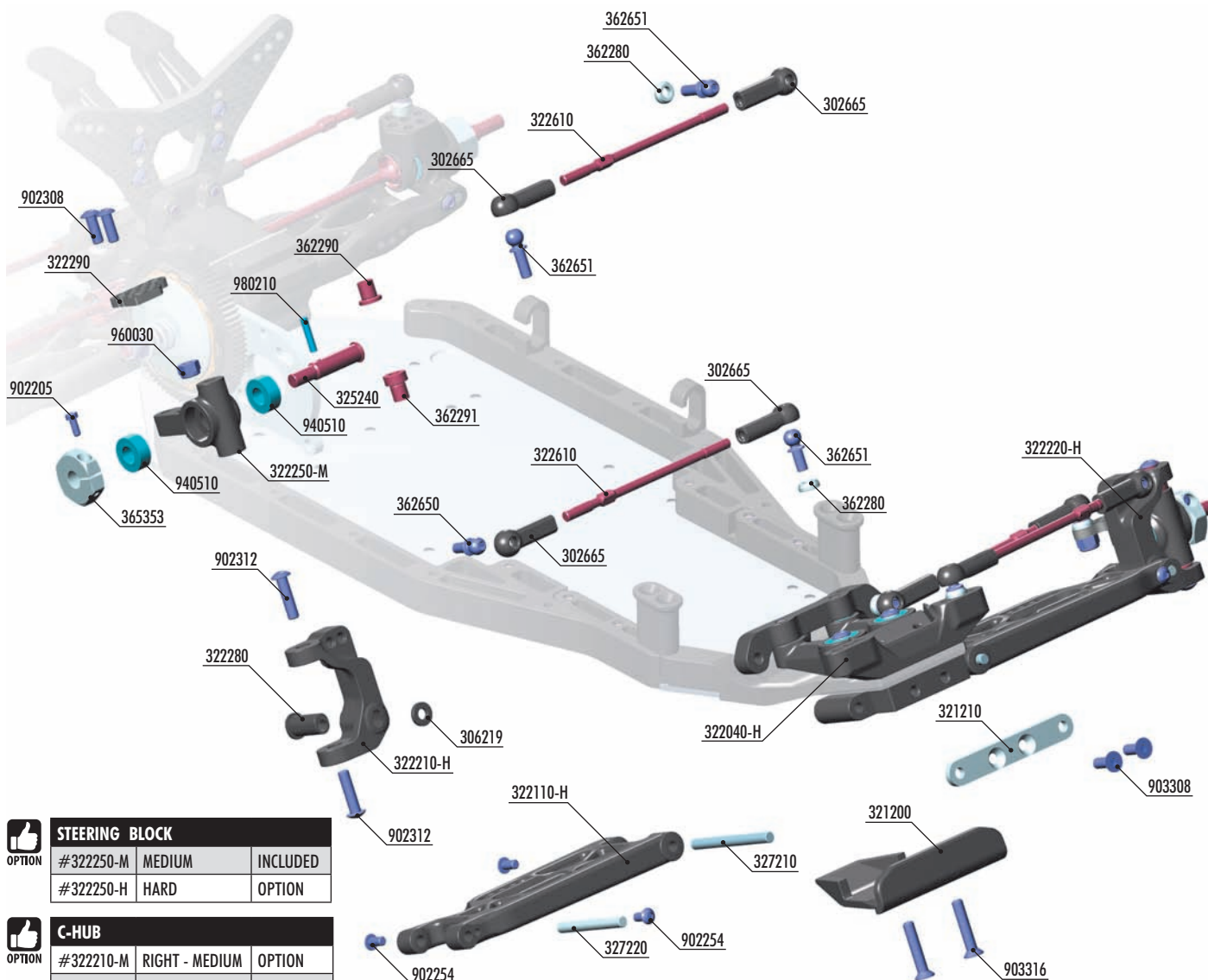
OPTION

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



5. FRONT SUSPENSION



STEERING BLOCK

#	STEERING BLOCK	WHEEL HUBS 12MM
#322250-M	MEDIUM	INCLUDED
#322250-H	HARD	OPTION



C-HUB

#	C-HUB	WHEEL HUBS 12MM
#322210-M	RIGHT - MEDIUM	OPTION
#322210-H	RIGHT - HARD	INCLUDED
#322220-M	LEFT - MEDIUM	OPTION
#322220-H	LEFT - HARD	INCLUDED



WHEEL HUBS 12MM

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



SUSPENSION ARM

#	SUSPENSION ARM	STEERING BLOCK EXTENSION
#322110-M	MEDIUM	OPTION
#322110-H	HARD	INCLUDED
#322110-G	GRAPHITE	OPTION



STEERING BLOCK EXTENSION

#	STEERING BLOCK EXTENSION	FRONT ROLL CENTER HOLDER
#322290	2-SLOTS	INCLUDED
#322291	1-SLOT	OPTION
#322292	0-SLOTS	OPTION



FRONT ROLL CENTER HOLDER

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

BAG

05

30 2665	COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
30 6219	COMPOSITE SET OF SERVO SHIMS (4)
32 1200	COMPOSITE FRONT BUMPER
32 1210	ALU SUSPENSION HOLDER BRACE - SWISS 7075 T6 (3MM)
32 2040-M	COMPOSITE FRONT ROLL CENTER HOLDER - MEDIUM (OPTION)
32 2040-H	COMPOSITE FRONT ROLL CENTER HOLDER - HARD
32 2041	ALU FRONT ROLL CENTER HOLDER - SWISS 7075 T6 (OPTION)
32 2110-M	COMPOSITE SUSPENSION ARM FRONT LOWER - MEDIUM (OPTION)
32 2110-H	COMPOSITE SUSPENSION ARM FRONT LOWER - HARD
32 2110-G	COMPOSITE SUSPENSION ARM FRONT LOWER - GRAPHITE (OPTION)
32 2210-M	COMPOSITE C-HUB 0° DEG. RIGHT - MEDIUM (OPTION)
32 2210-H	COMPOSITE C-HUB 0° DEG. RIGHT - HARD
32 2220-M	COMPOSITE C-HUB 0° DEG. LEFT - MEDIUM (OPTION)
32 2220-H	COMPOSITE C-HUB 0° DEG. LEFT - HARD
32 2250-M	COMPOSITE STEERING BLOCK - MEDIUM
32 2250-H	COMPOSITE STEERING BLOCK - HARD (OPTION)
32 2280	COMPOSITE CASTER ECCENTRIC BUSHING (2+2+2)
32 2290	GRAPHITE EXTENSION FOR STEERING BLOCK - 2 SLOTS (2)
32 2291	GRAPHITE EXTENSION FOR STEERING BLOCK - 1 SLOT (2) (OPTION)
32 2292	GRAPHITE EXTENSION FOR STEERING BLOCK - 0 SLOTS (2) (OPTION)

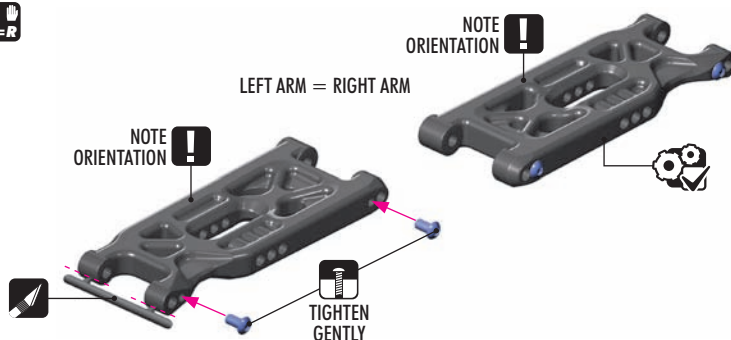
32 2610	ADJUSTABLE TURNBUCKLE 55MM M3 L/R - HUDY SPRING STEEL™ (2)
32 5240	FRONT DRIVE AXLE - HUDY SPRING STEEL™
32 7210	FRONT SUSPENSION PIVOT PIN (2)
32 7220	FRONT ARM PIVOT PIN (2)
36 2280	ALU CONICAL SHIM 3x6x2.0MM (10)
36 2290	STEEL STEERING BUSHING - SHORT (2)
36 2291	STEEL STEERING BUSHING - LONG (2)
36 2650	BALL END 4.9MM WITH THREAD 6MM (2)
36 2651	BALL END 4.9MM WITH THREAD 8MM (2)
36 5353	ALU WHEEL HUB 12MM (2)
90 2205	HEX SCREW SH M2x5 (10)
90 2254	HEX SCREW SH M2.5x4 (10)
90 2308	HEX SCREW SH M3x8 (10)
90 2312	HEX SCREW SH M3x12 (10)
90 3308	HEX SCREW SFH M3x8 (10)
90 3316	HEX SCREW SFH M3x16 (10)
94 0510	HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2)
96 0030	NUT M3 (10)
98 0210	PIN 2x9.8 (10)

FRONT SUSPENSION



902254
SFH M2.5x4

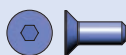
2x
L=R



SUSPENSION ARM

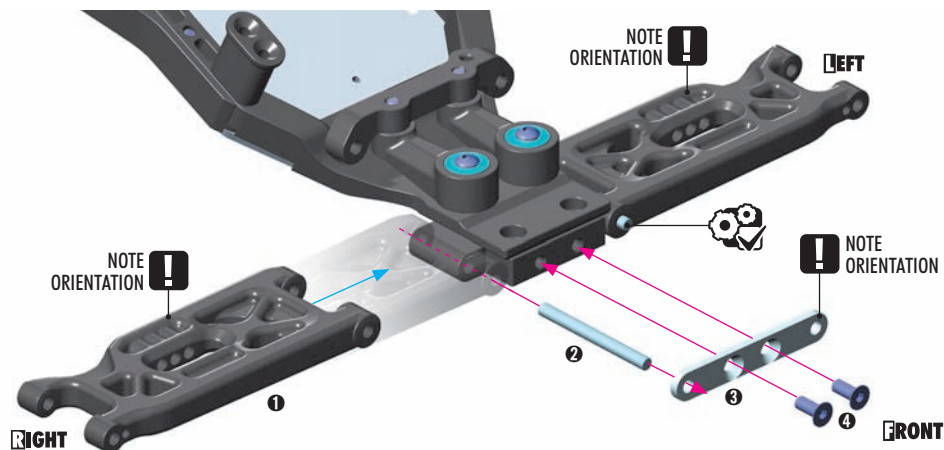
#322110-M	MEDIUM	OPTION
#322110-H	HARD	INCLUDED
#322110-G	GRAPHITE	OPTION

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



903308
SFH M3x8

L=R



FRONT ROLL CENTER HOLDER

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

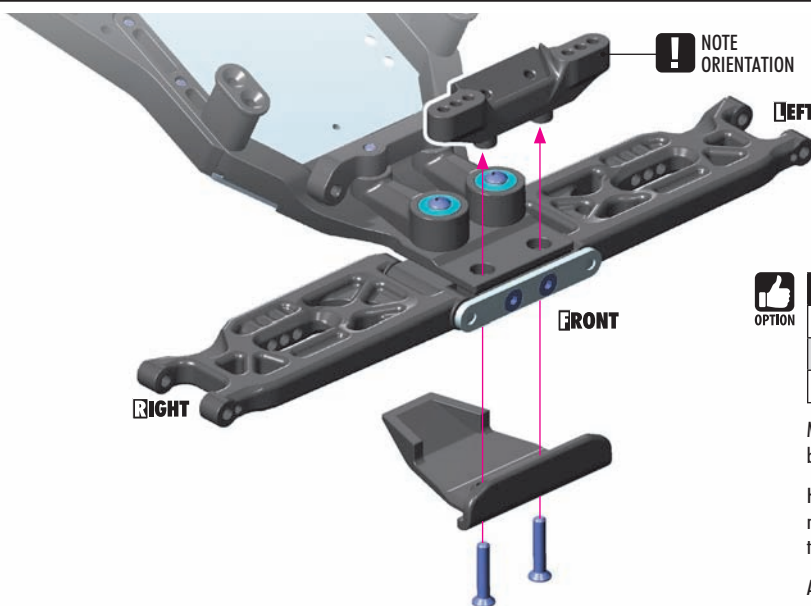
MEDIUM - Generates more traction, absorbs bumps better

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, increased strength

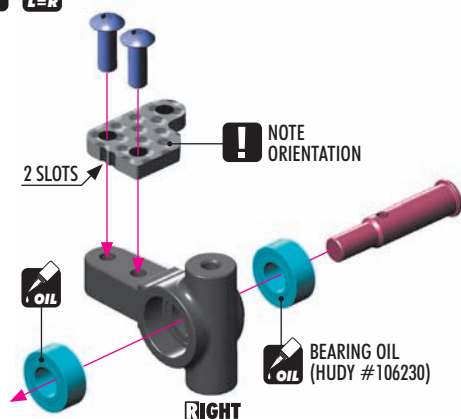


903316
SFH M3x16



902308
SFH M3x8

2x
L=R



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



STEERING BLOCK

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

MEDIUM - More steering, more aggressive

HARD - Easy to drive, less on-power steering

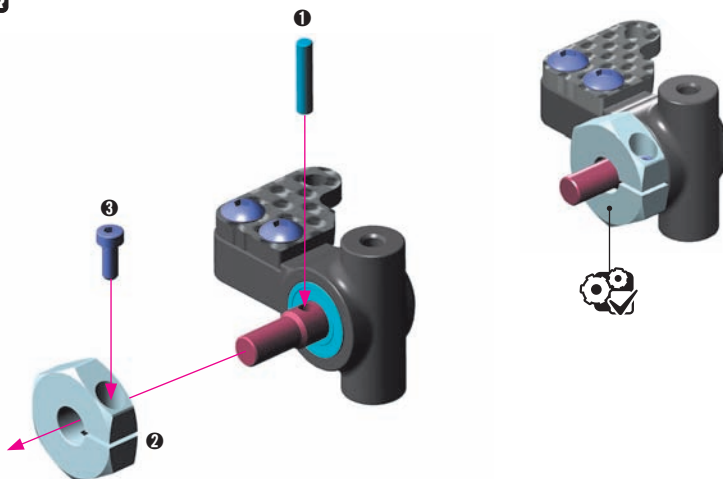
FRONT SUSPENSION



902205
SH M2x5



981210
P 2x10



OPTIONAL HEX HUB EFFECTS

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

LESS OFFSET

Rear - more traction
Front - more steering

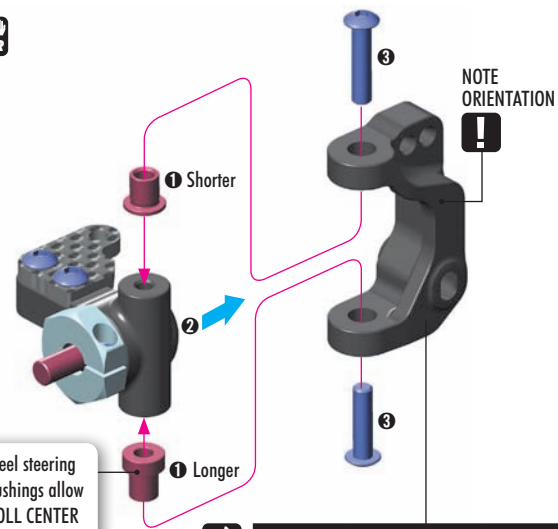
MORE OFFSET

Rear - less traction
Front - less steering

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



902312
SH M3x12



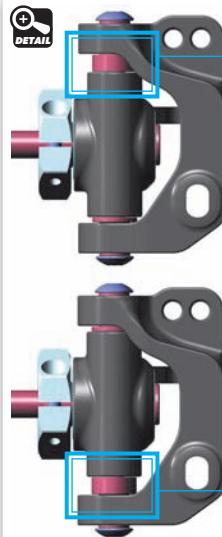
 Steel steering bushings allow **ROLL CENTER** adjustment.



C-HUB

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

MEDIUM - For very-low, low & medium traction. Absorbs bumps better, easy to drive.
HARD - For high & very-high traction. More steering, more aggressive.



LOWER ROLL CENTER

TOP = LONGER bushing
BOTTOM = SHORTER bushing

Recommended for rough tracks to improve stability.

HIGHER ROLL CENTER (INITIAL SETTING)

TOP = SHORTER bushing
BOTTOM = LONGER bushing

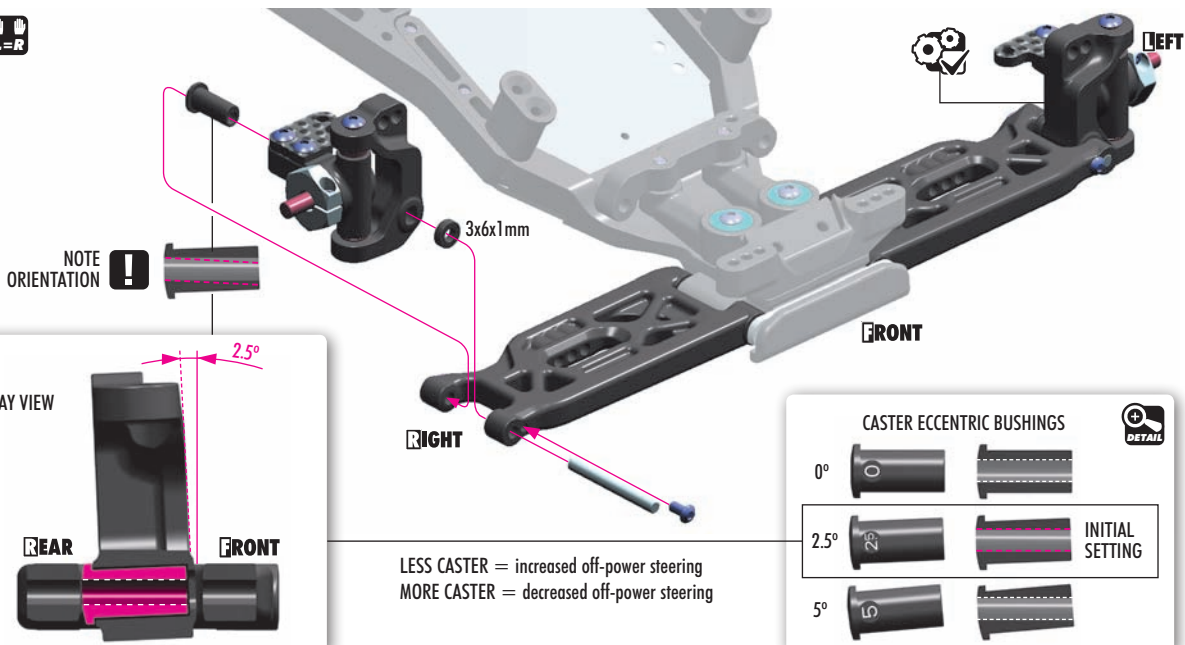
Recommended for smooth tracks to gain more steering.



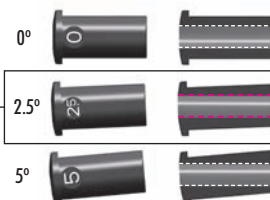
306219
SHIM 3x6x1



902254
SH M2.5x4



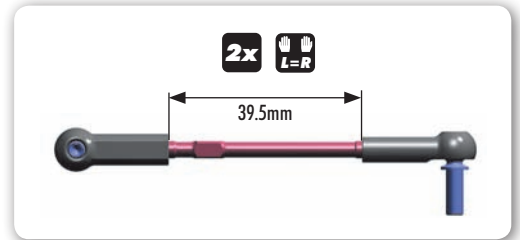
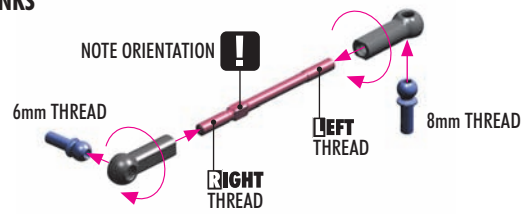
CASTER ECCENTRIC BUSHINGS



INITIAL SETTING

ROLL CENTER LINKS

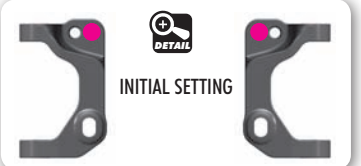
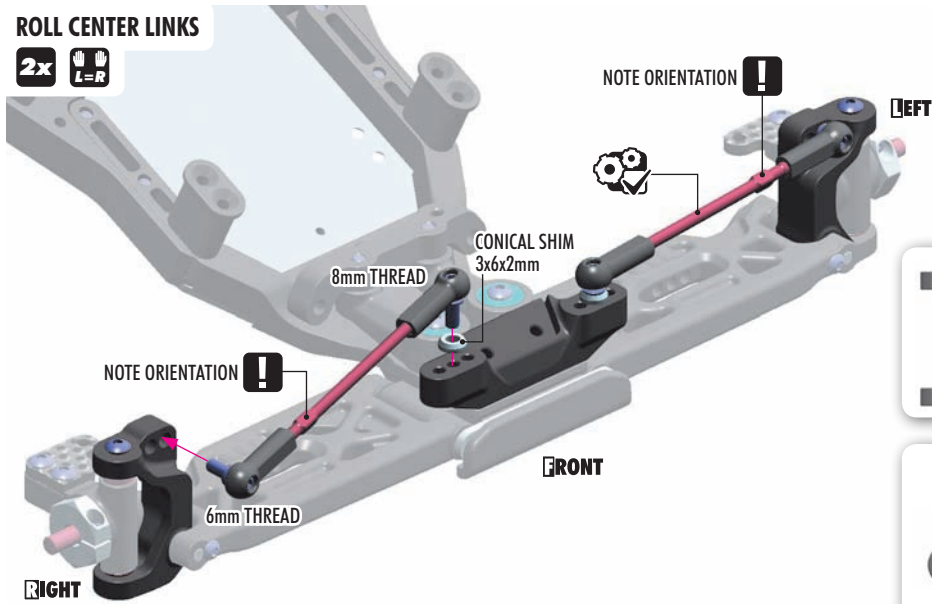
2x  L=R




362280
CON. SHIM 3x6x2

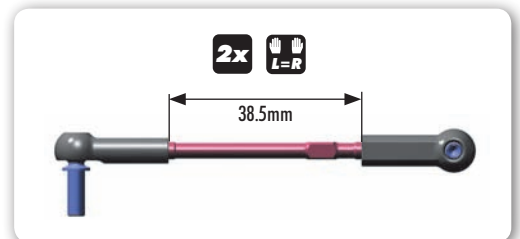
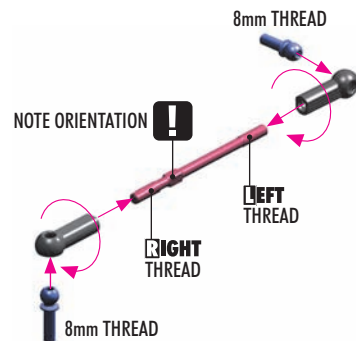
ROLL CENTER LINKS

2x  L=R



STEERING LINKS

2x  L=R

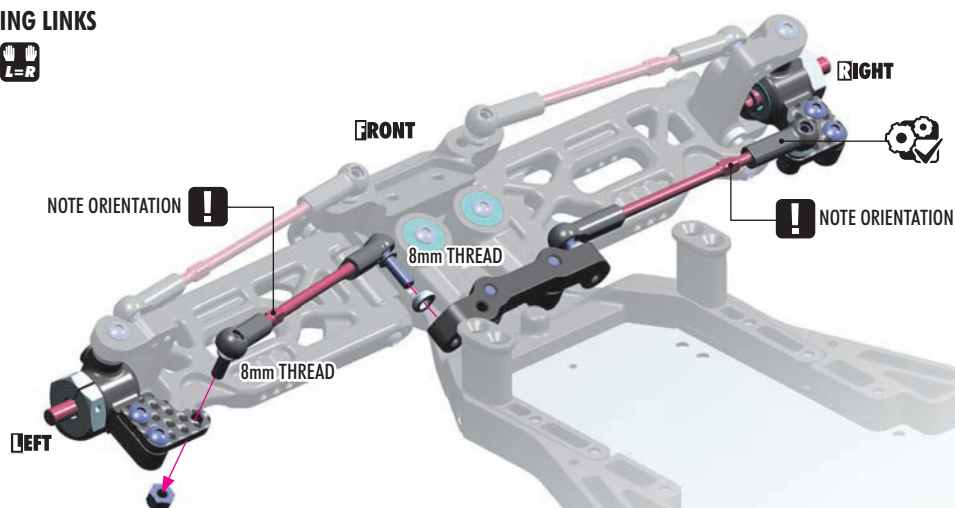



362280
CON. SHIM 3x6x2

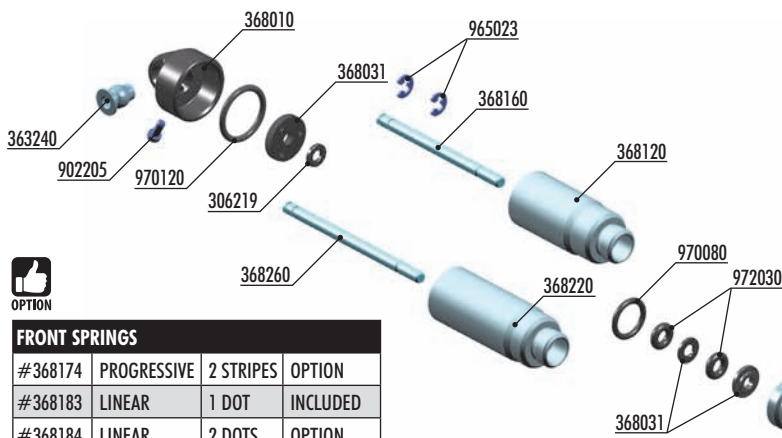

960030
NUT M3

STEERING LINKS

2x  L=R



6. SHOCK ABSORBERS



FRONT SPRINGS

#368174	PROGRESSIVE	2 STRIPES	OPTION
#368183	LINEAR	1 DOT	INCLUDED
#368184	LINEAR	2 DOTS	OPTION
#368185	LINEAR	3 DOTS	OPTION
#368186	LINEAR	4 DOTS	OPTION

REAR SPRINGS

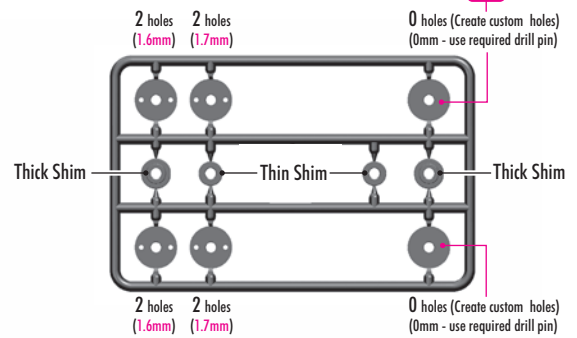
#368273	PROGRESSIVE	2 STRIPES	OPTION
#368284	LINEAR	1 DOT	INCLUDED
#368285	LINEAR	2 DOTS	OPTION
#368286	LINEAR	3 DOTS	OPTION
#368287	LINEAR	4 DOTS	OPTION



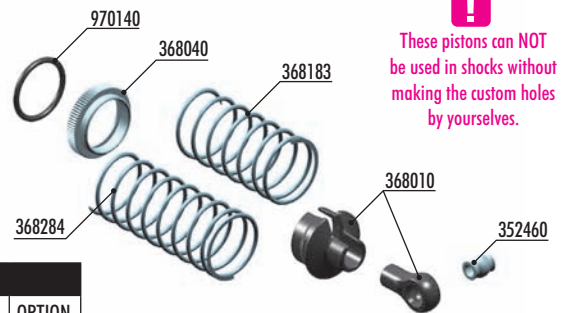
SHOCK PARTS

#368051	ALU SHOCK CAP-NUT WITH VENT HOLE (2)	OPTION
#368021	ALU SHOCK SPRING RETAINING COLLAR (4)	OPTION

PISTONS DETAIL



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



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 8100 FRONT SHOCK ABSORBERS COMPLETE SET (2)
- 36 8120 ALU FRONT SHOCK BODY - HARD COATED (2)
- 36 8140 ALU LOWER SHOCK BODY CAP (2)
- 36 8160 FRONT HARDENED SHOCK SHAFT (2)
- 36 8174 FRONT SPRING-SET PROGRESSIVE - 2 STRIPES (2) (OPTION)
- 36 8183 FRONT SPRING-SET LINEAR - 1 DOT (2)
- 36 8184 FRONT SPRING-SET LINEAR - 2 DOTS (2) (OPTION)
- 36 8185 FRONT SPRING-SET LINEAR - 3 DOTS (2) (OPTION)
- 36 8186 FRONT SPRING-SET - 4 DOTS (2) (OPTION)

- 36 8200 REAR SHOCK ABSORBERS COMPLETE SET (2)
- 36 8220 ALU REAR SHOCK BODY - HARD COATED (2)
- 36 8260 REAR HARDENED SHOCK SHAFT (2)
- 36 8273 REAR SPRING-SET PROGRESSIVE - 2 STRIPES (2) (OPTION)
- 36 8284 REAR SPRING-SET LINEAR - 1 DOT (2)
- 36 8285 REAR SPRING-SET LINEAR - 2 DOTS (2) (OPTION)
- 36 8286 REAR SPRING-SET LINEAR - 3 DOTS (2) (OPTION)
- 36 8287 REAR SPRING-SET LINEAR - 4 DOTS (2) (OPTION)
- 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 2030 SILICONE O-RING 3x2 (10)



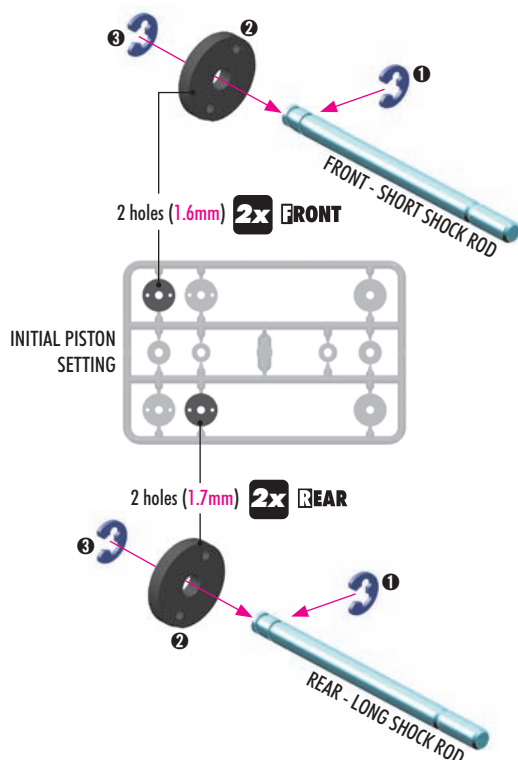
965023
C 2.3



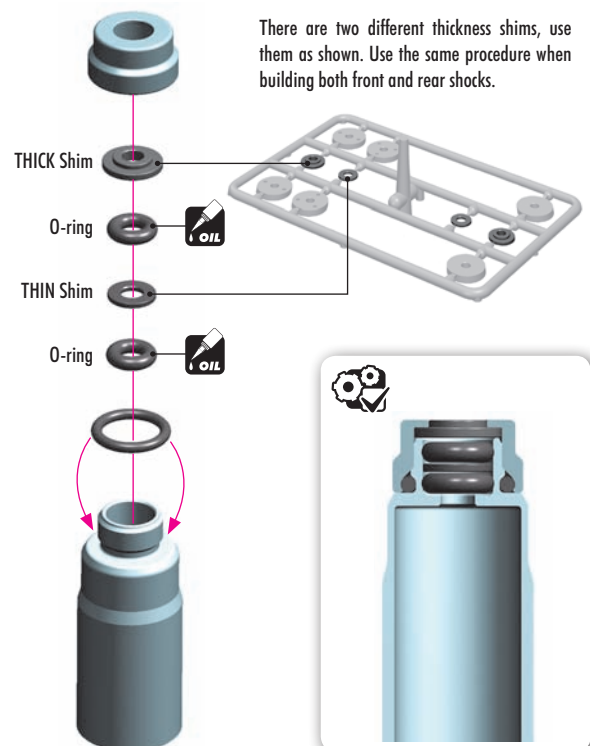
972030
O 3x2



970080
O 8x1



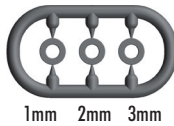
4x



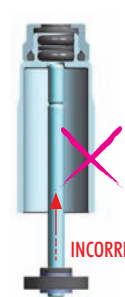
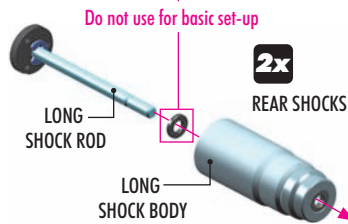
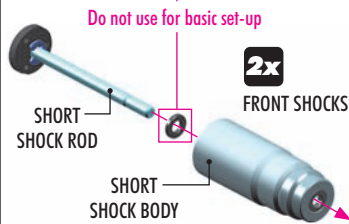
SET-UP BOOK

SHOCK DAMPING
SHOCK PISTONS

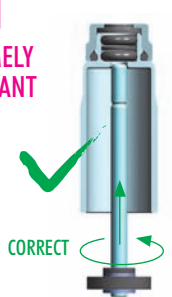
#306219
DOWNSTOP SHIMS
OPTION
THICKER shim used, GREATER downstop is achieved.



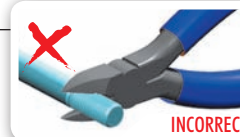
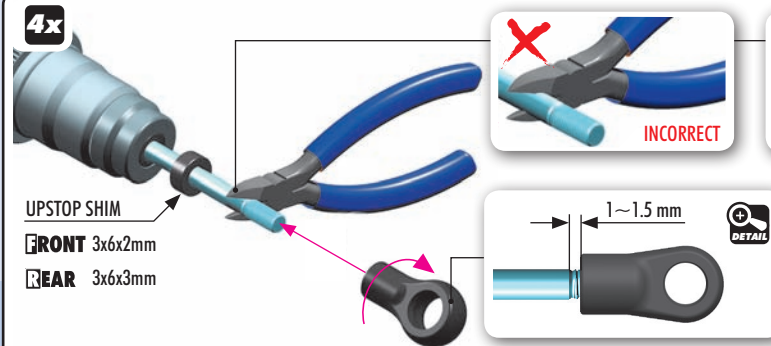
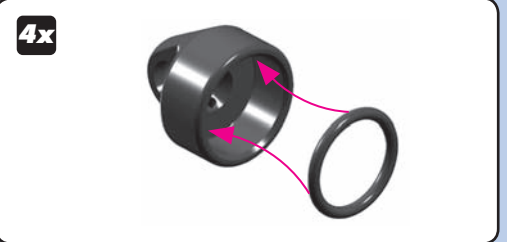
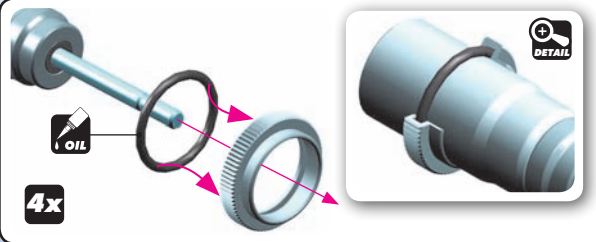
! IMPORTANT
Always use same shim thickness on right and left side to achieve same downstop.



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



Twist the shock rod through the lower shock body assembly.



Grip the shock rod at top of exposed threads with side cutting pliers. Be careful not to damage the shock rod.



INITIAL SHOCK REBOUND SETTING 0% (LOW REBOUND)

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

2x FRONT (SHORT)
Oil 500cSt

2x REAR (LONG)
Oil 400cSt



Extend the shock shaft completely. Fill the shock body with the shock oil. For the FRONT shocks (short) use 500cSt oil. For the REAR shocks (long) use 400cSt oil.



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



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



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

TIGHTEN FULLY



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



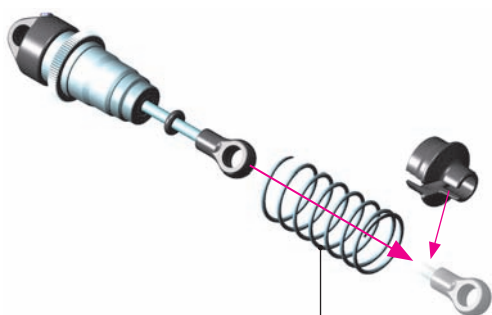
Keep the shock shaft pushed in the shock body and insert the screw into the shock cap. The rebound will be at approximately 0%

SET-UP BOOK
SHOCK OIL

SHOCK ABSORBERS

2x FRONT SHOCKS (SHORT)

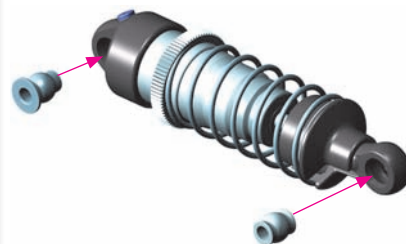
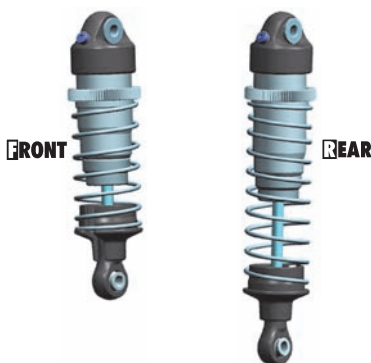
2x REAR SHOCKS (LONG)



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

! IMPORTANT

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



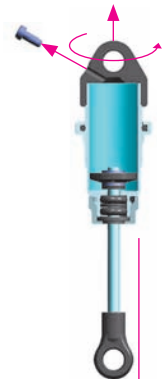
TIP ALTERNATE SHOCK REBOUND SETTING (50% AND 100%)

The default shock rebound setting is 0% (as described on page 25).

Alternatively, you may set the shock rebound setting to 50% or 100% as described below. Remove the shock springs before performing shock rebound adjustment.

SETTING THE SHOCK REBOUND TO 50% (MEDIUM REBOUND)

REMOVE SHOCK CAP AND THE SCREW FROM SHOCK CAP



1 Extend the shock shaft completely and remove the shock cap and remove screw from shock cap.



2 Fill the shock body with shock oil up to the top. Make sure to use same viscosity shock oil as is in the shock.



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

TIGHTEN FULLY



4 Gently place the shock cap assembly onto the filled shock body.



5 Push the shock shaft 50% into the shock body. Excess oil will bleed through the hole in the shock cap.



6 Keep the shock shaft pushed 50% into the shock body and insert the screw into the shock cap. The rebound will be at approximately 50%.

SETTING THE SHOCK REBOUND TO 100% (HIGH REBOUND)

REMOVE SHOCK CAP AND THE SCREW FROM SHOCK CAP



1 Extend the shock shaft completely and remove the shock cap.



2 Fill the shock body with shock oil up to the top. Make sure to use same viscosity shock oil as is in the shock.



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

TIGHTEN FULLY



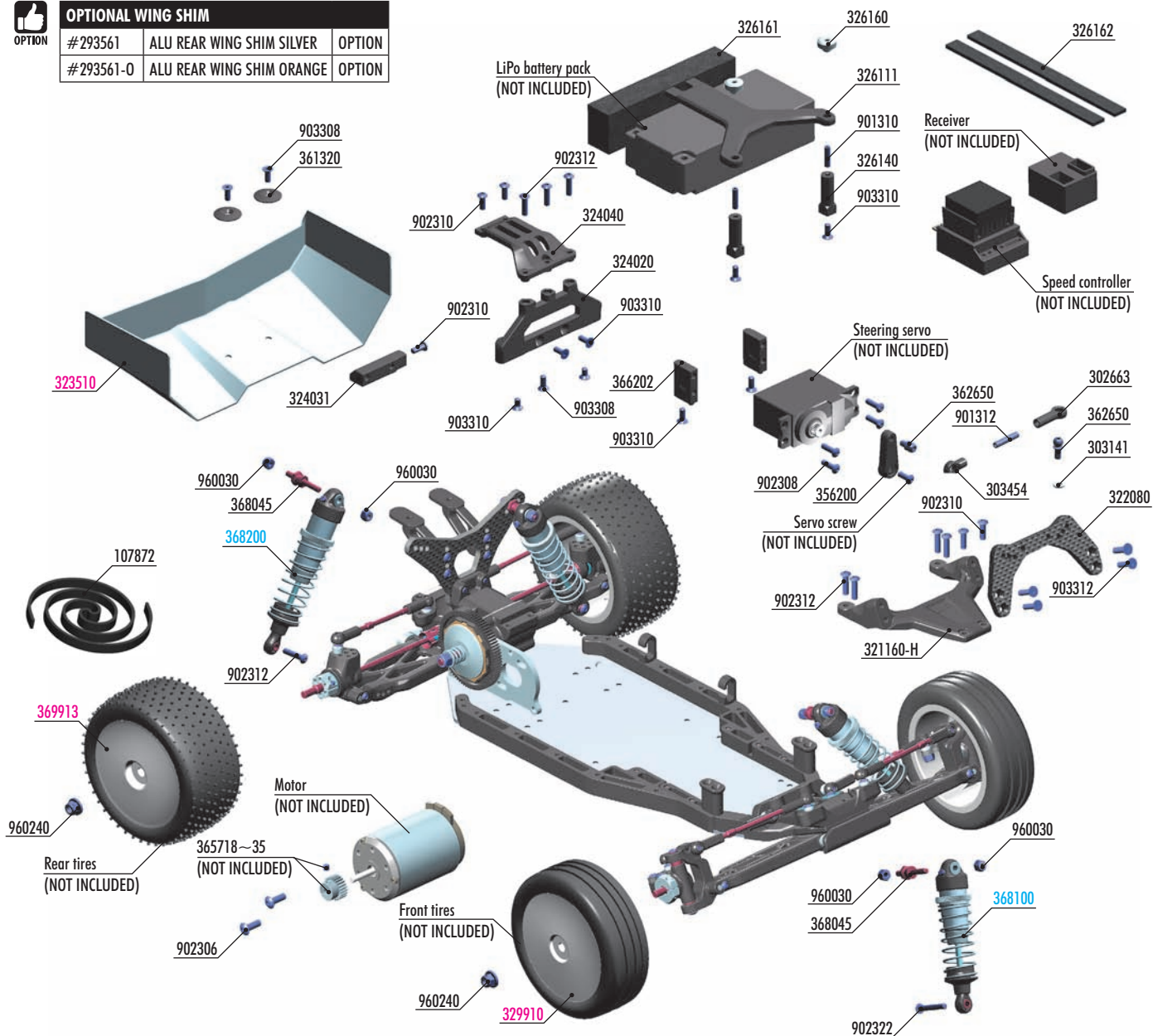
4 Gently place the shock cap assembly onto the filled shock body. Keep the shock shaft extended 100% from the shock body and tighten the shock cap completely. The rebound will be at approximately 100%.

7. FINAL ASSEMBLY



OPTIONAL WING SHIM

#293561	ALU REAR WING SHIM SILVER	OPTION
#293561-0	ALU REAR WING SHIM ORANGE	OPTION



LEXAN REAR WING

#323510	1.0MM	INCLUDED
#323511	1.5MM	OPTION



LEXAN BODY

#329700	0.75MM	INCLUDED
#329701	0.5MM LIGHT	OPTION



BATTERY STRAP

#326110	GRAPHITE	OPTION
#326111	COMPOSITE	INCLUDED



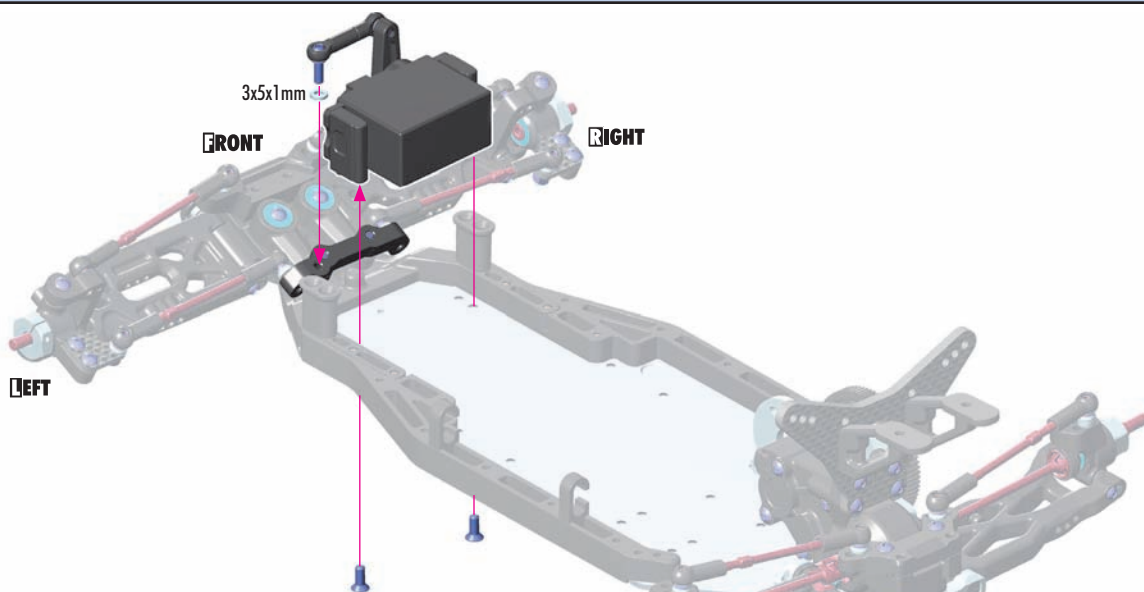
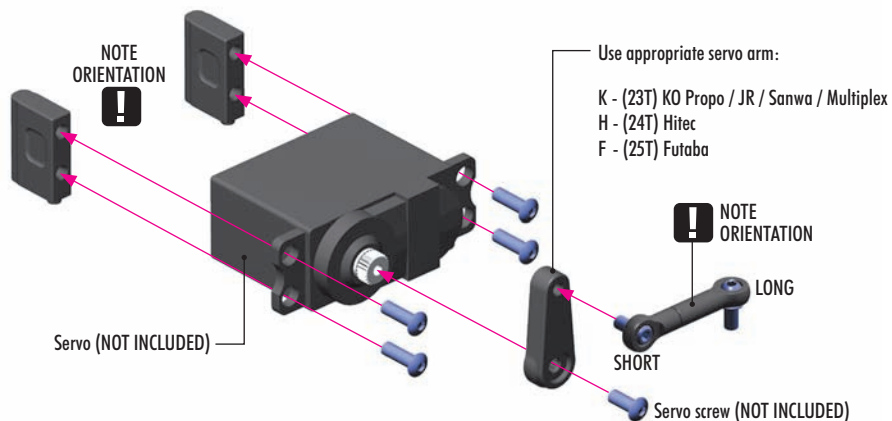
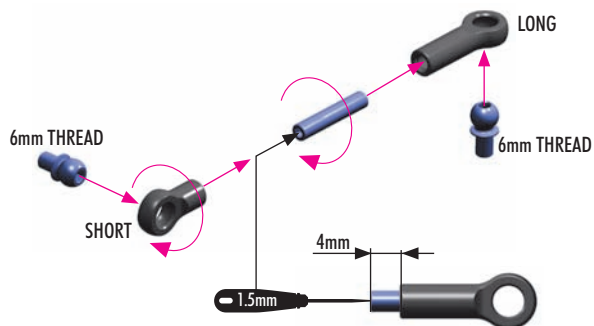
FRONT UPPER DECK

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



10 7872	VELCRO TAPE WITH DOUBLE SIDED TAPE 8x500MM	90 1310	HEX SCREW SB M3x10 (10)
29 3561-O	ALU REAR WING SHIM ORANGE (OPTION)	90 1312	HEX SCREW SB M3x12 (10)
30 2663	COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8)	90 2306	HEX SCREW SH M3x6 (10)
30 3141	ALU SHIM 3x5x1.0MM (10)	90 2308	HEX SCREW SH M3x8 (10)
30 3454	BALL JOINT 4.9MM - OPEN (4)	90 2310	HEX SCREW SH M3x10 (10)
32 1160-M	COMPOSITE FRONT UPPER DECK - MEDIUM (OPTION)	90 2312	HEX SCREW SH M3x12 (10)
32 1160-H	COMPOSITE FRONT UPPER DECK - HARD	90 2322	HEX SCREW SH M3x22 (10)
32 2080	GRAPHITE SHOCK TOWER FRONT 4.0MM	90 3308	HEX SCREW SFH M3x8 (10)
32 4020	COMPOSITE MOUNT FOR UPPER BRACE - CARPET EDITION	90 3310	HEX SCREW SFH M3x10 (10)
32 4031	COMPOSITE FRONT-MID MOTOR (3 GEARS) PLATE BRACE	90 3312	HEX SCREW SFH M3x12 (10)
32 4040	COMPOSITE MOTOR UPPER BRACE - CARPET EDITION	96 0030	NUT M3 (10)
32 6110	GRAPHITE BATTERY STRAP (OPTION)	96 0240	NUT M4 WITH SERRATED FLANGE (10)
32 6111	COMPOSITE BATTERY STRAP - CARPET EDITION		
32 6140	COMPOSITE BATTERY HOLDER STAND (2)	36 8100	FRONT SHOCK ABSORBERS COMPLETE SET (2)
32 6160	ALU BATTERY HOLDER NUT (2)	36 8200	REAR SHOCK ABSORBERS COMPLETE SET (2)
32 6161	FOAM SPACER FOR BATTERY		
32 6162	SELF-ADHESIVE RUBBER 1.5x6.5x155MM (2)	32 3510	LEXAN REAR WING (2)
35 6200	BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET	32 3511	LEXAN REAR WING 1.5MM (2) (OPTION)
36 1320	BODY MOUNT, BATTERY MOUNT - V2 & WING SHIM (2)	32 3512	LEXAN FRONT WING 0.75MM
36 2650	BALL END 4.9MM WITH THREAD 6MM (2)	32 9700	XRAY XB2 BODY
36 5718~35	ALU PINION GEAR HARD COATED 18~35T/48 (OPTION)	32 9701	XRAY XB2 BODY - LIGHT (OPTION)
36 6202	COMPOSITE SERVO MOUNT - HIGHER	32 9910	2WD FRONT WHEEL AERODISK WITH 12MM HEX - WHITE (2)
36 8045	STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)	36 9913	4WD/2WD REAR WHEEL AERODISK 12MM HEX - WHITE (2)

FINAL ASSEMBLY



902310
SH M3x10



902312
SH M3x12

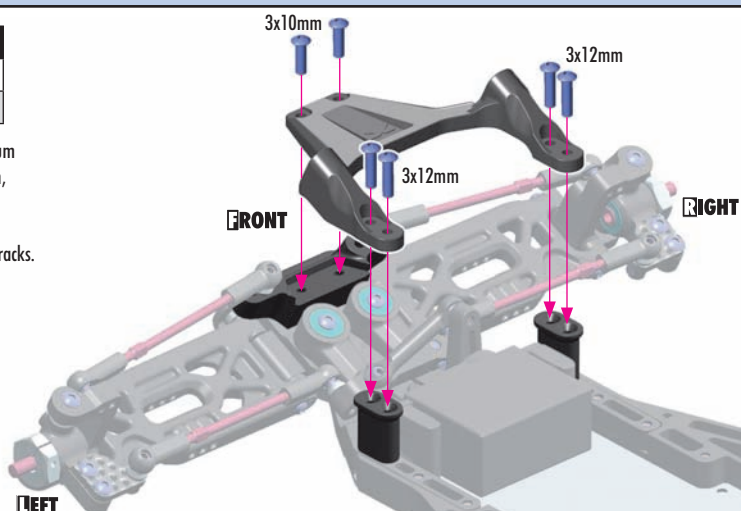


FRONT UPPER DECK

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

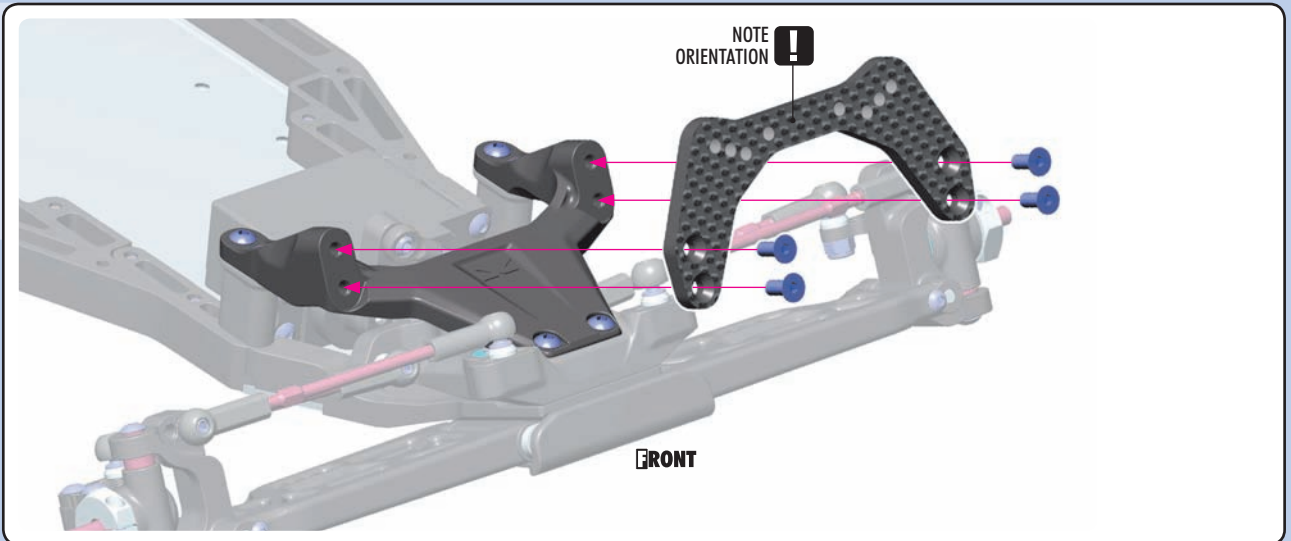
MEDIUM - For very-low, low and medium traction tracks. Generates more traction, absorbs bumps better.

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





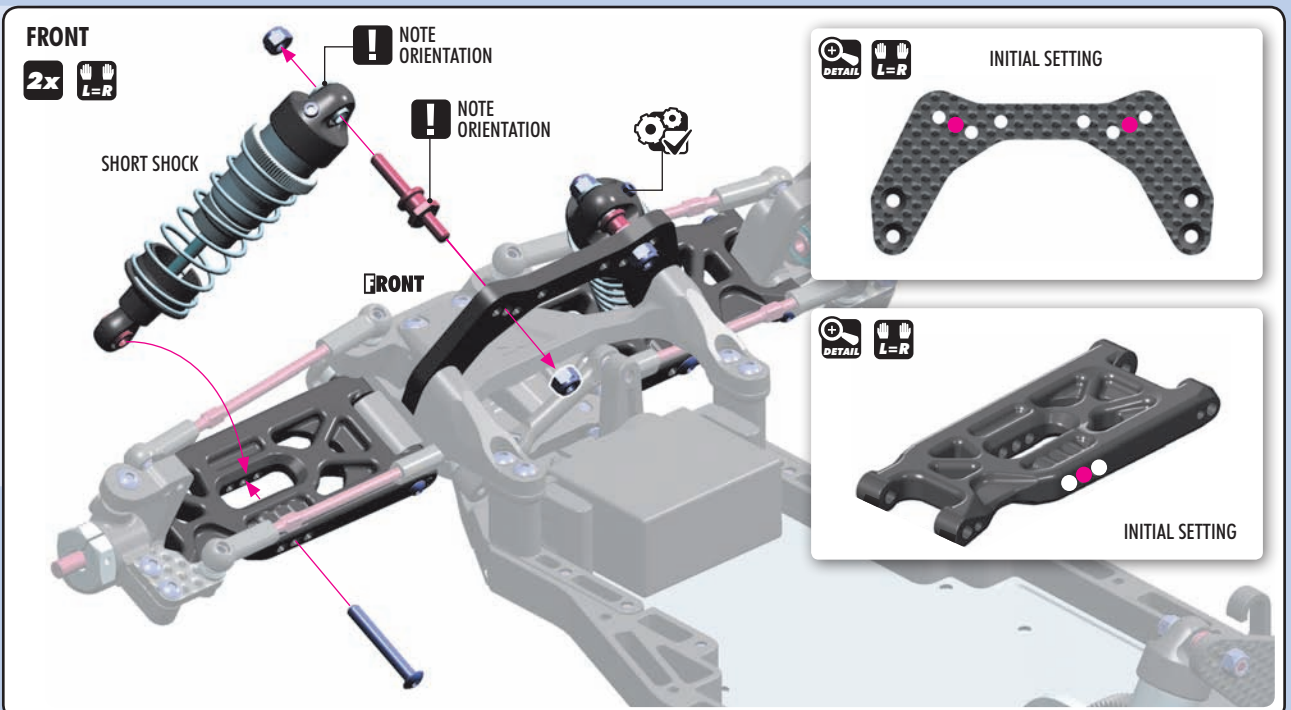
903312
SFH M3x12



902322
SH M3x22



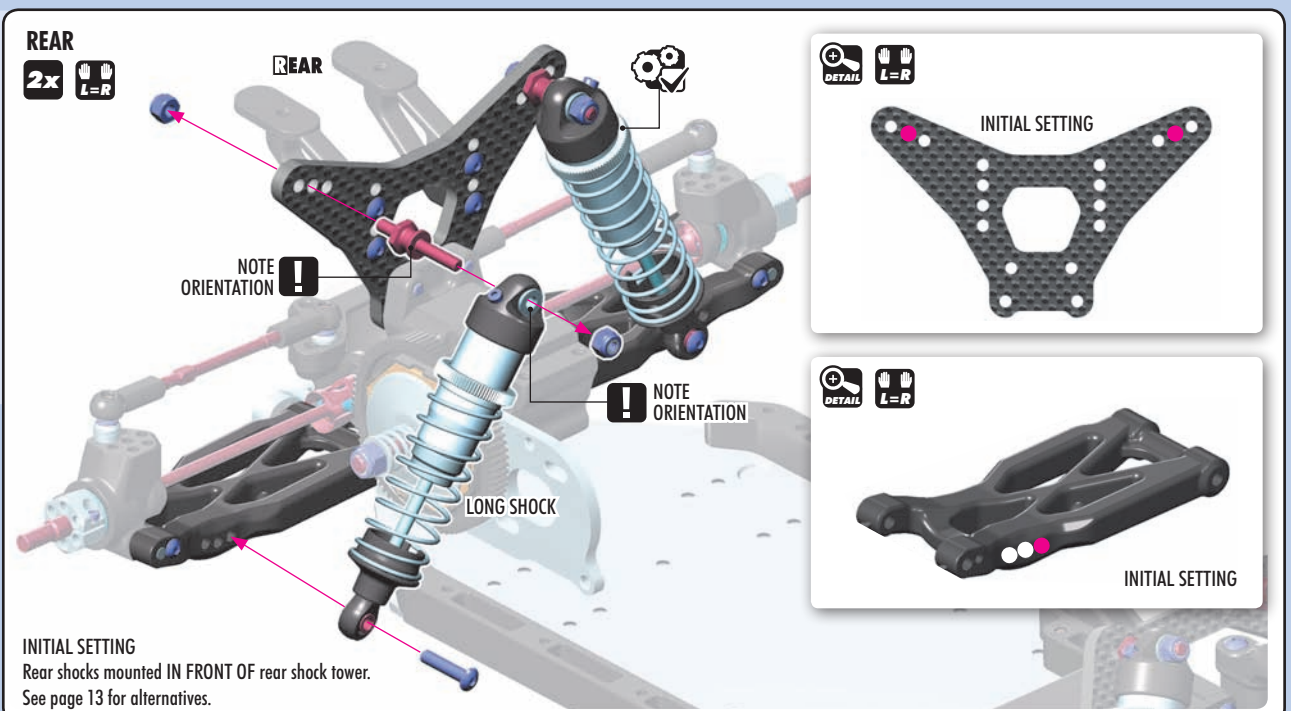
960030
NUT M3



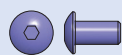
902312
SH M3x12



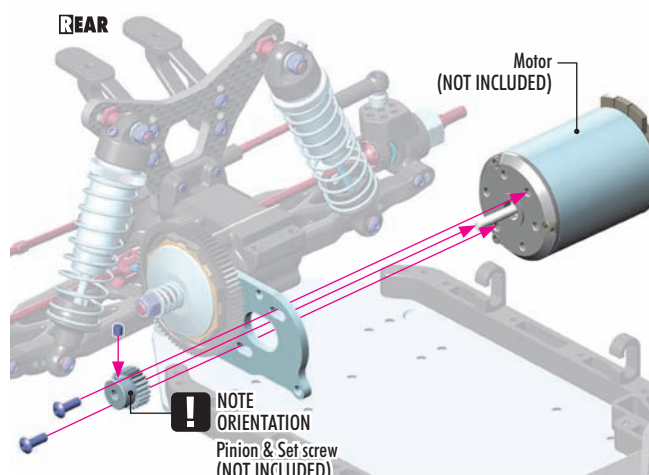
960030
NUT M3



FINAL ASSEMBLY

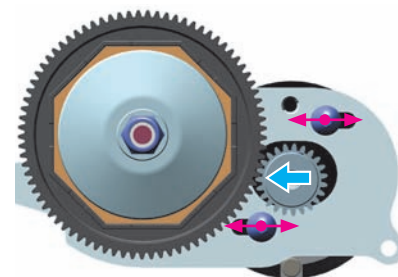


902306
SH M3x6



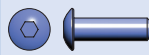
XRAY PINIONS

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



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.



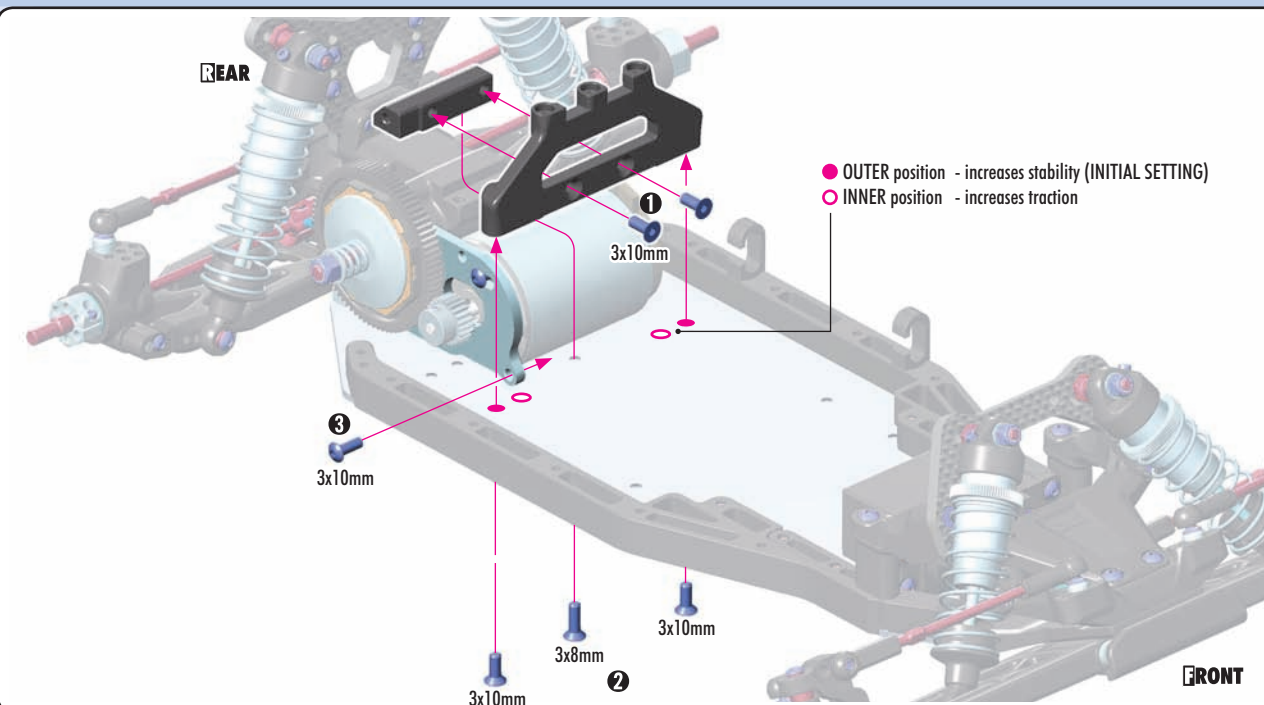
902310
SH M3x10



903308
SFH M3x8



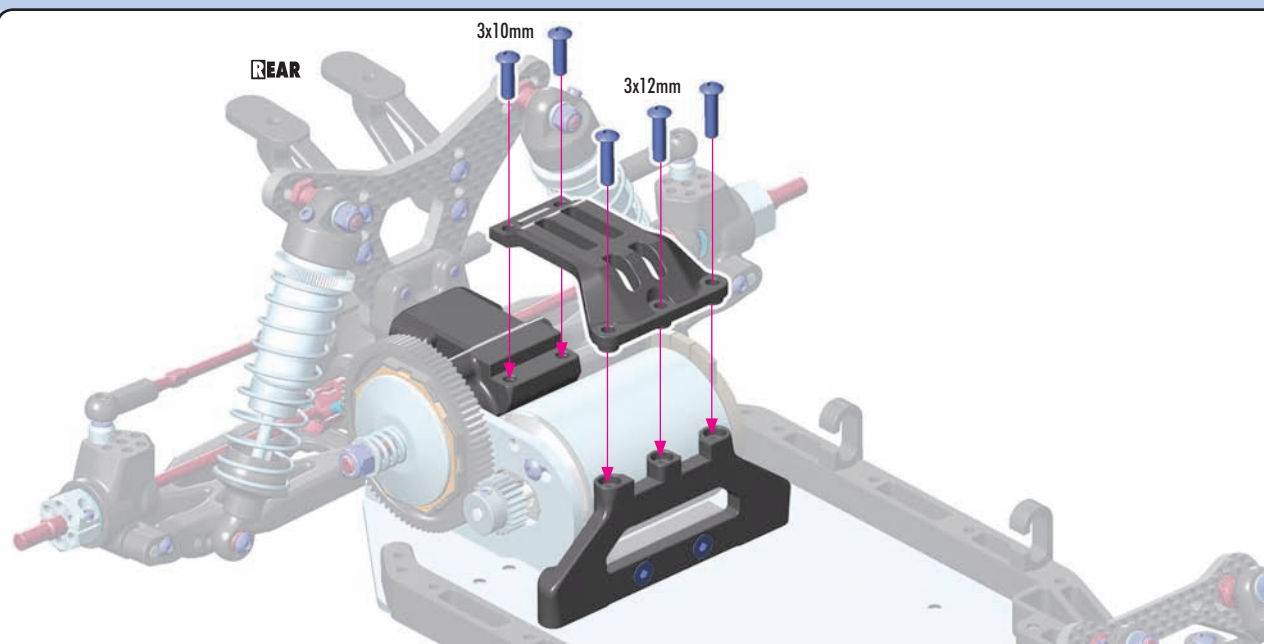
903310
SFH M3x10

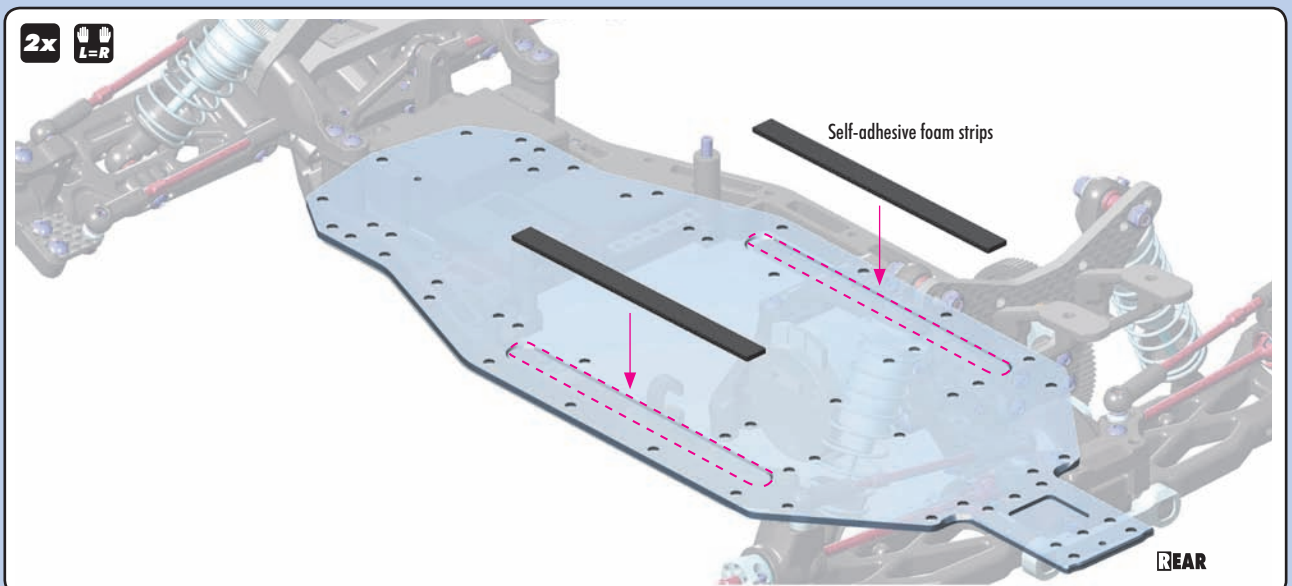
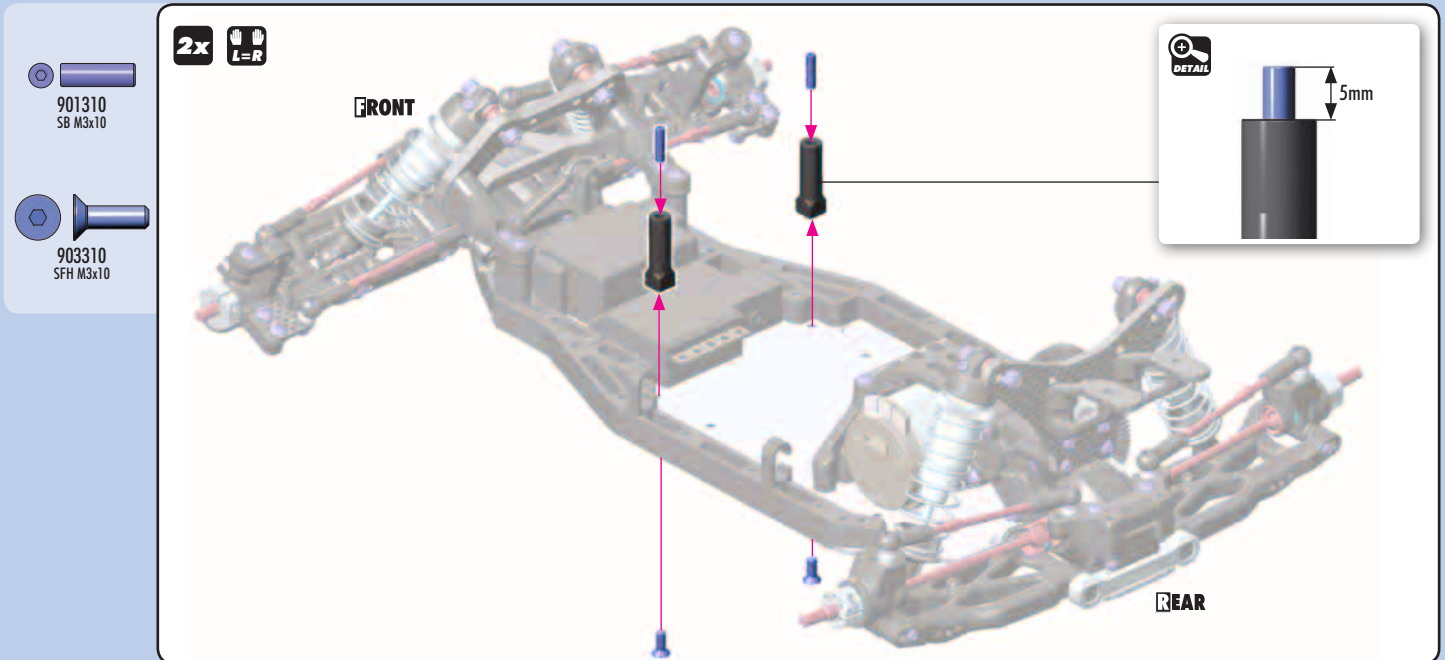
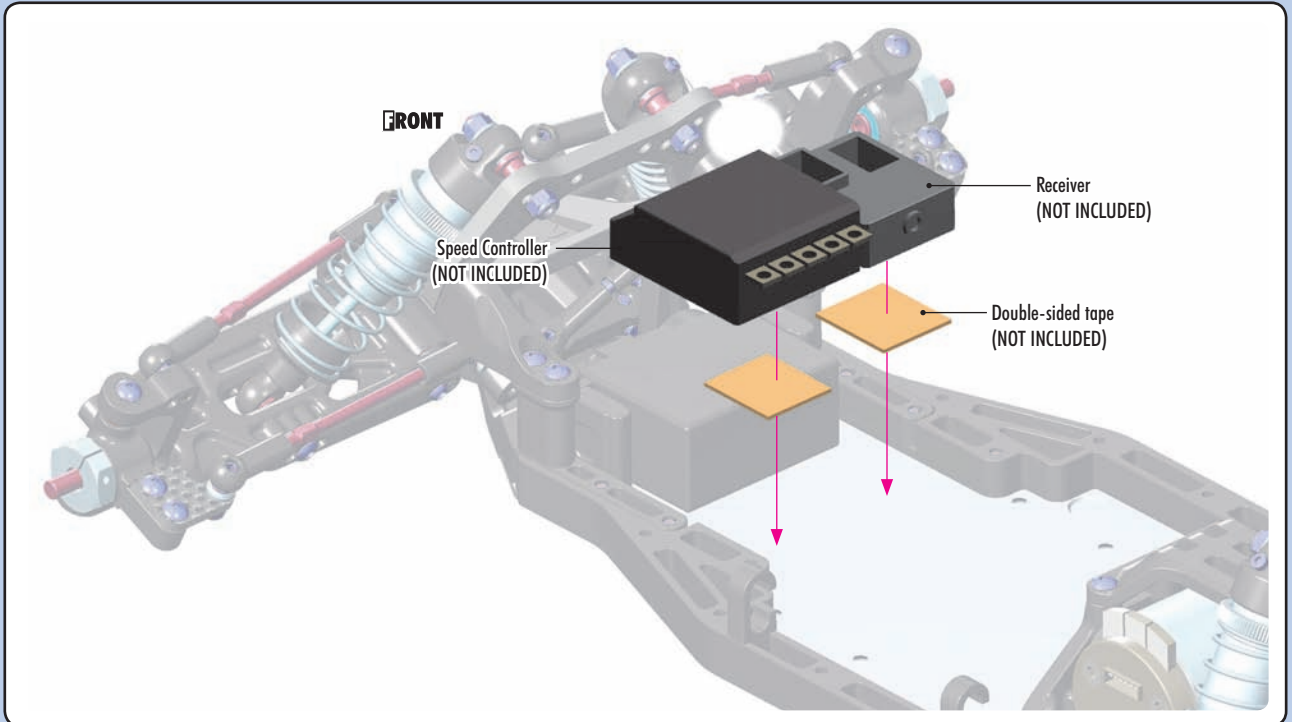


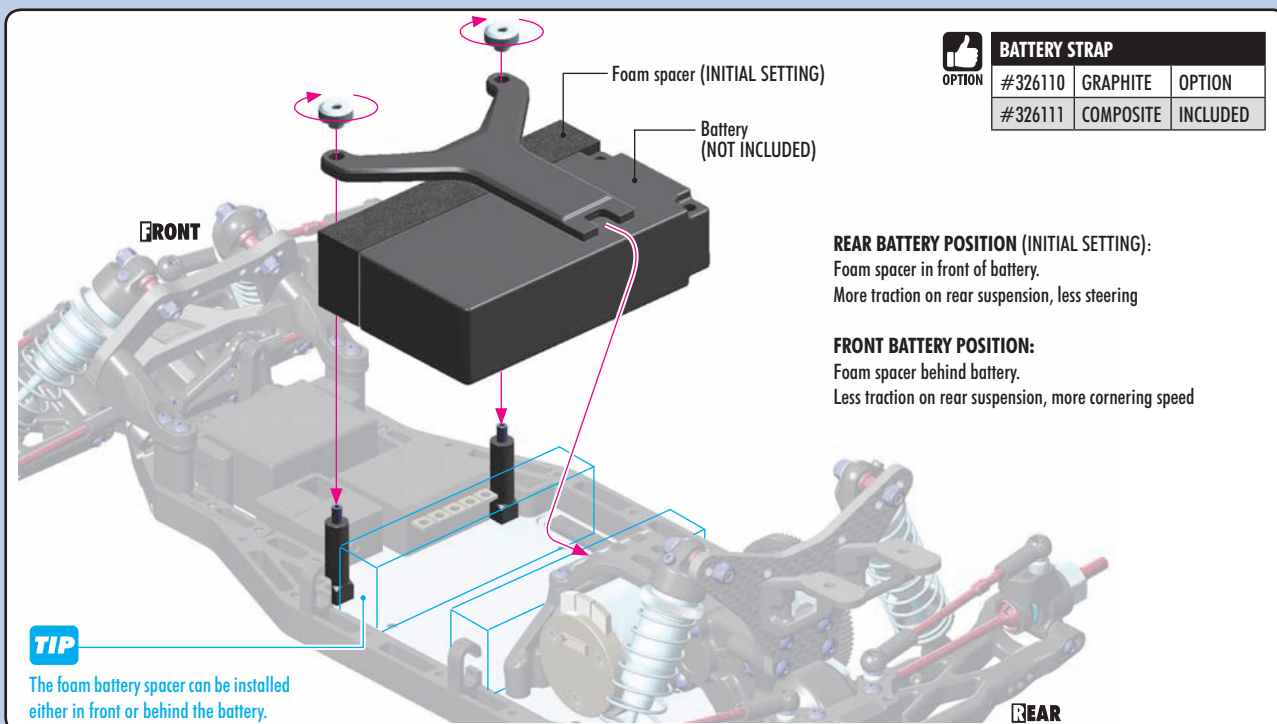
902310
SH M3x10



902312
SH M3x12







FRONT

REAR

Foam spacer (INITIAL SETTING)

Battery (NOT INCLUDED)

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

BATTERY STRAP

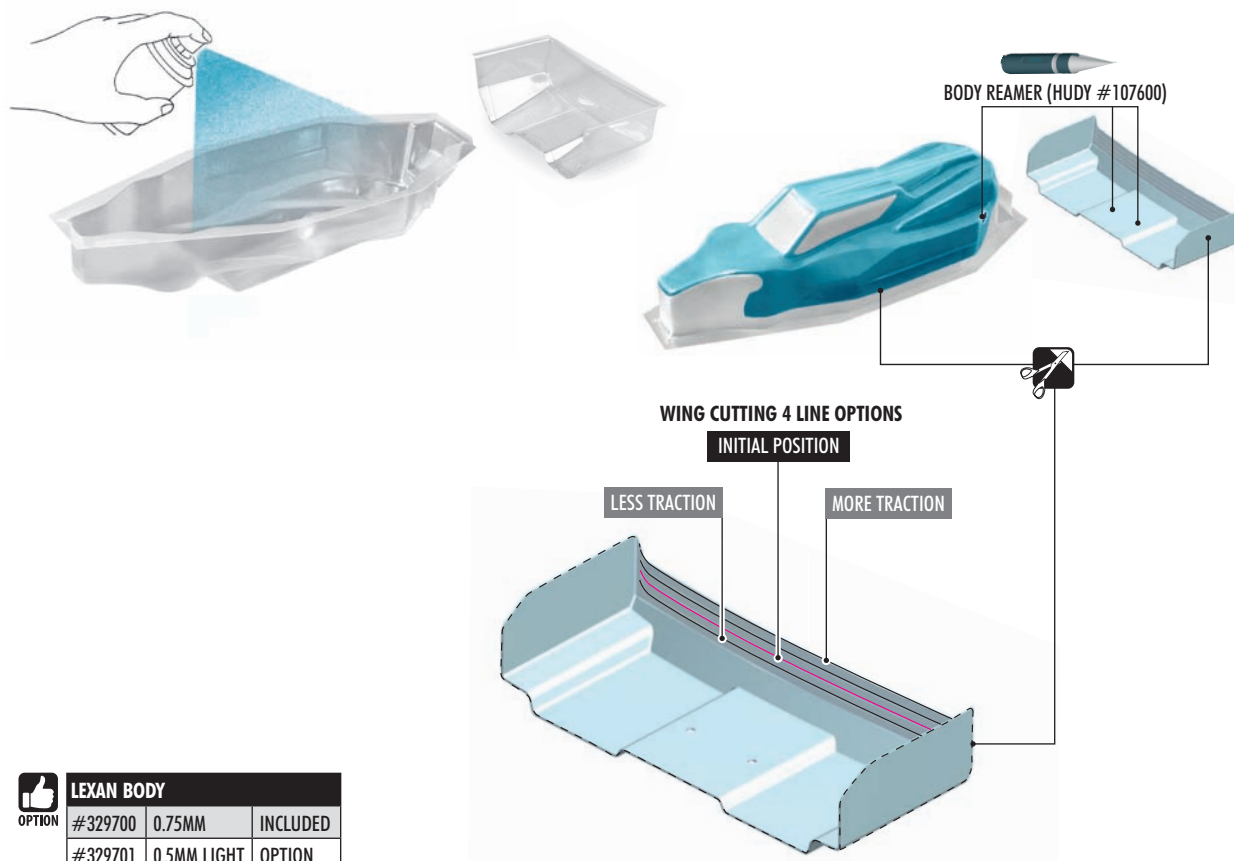
OPTION	#326110	GRAPHITE	OPTION
	#326111	COMPOSITE	INCLUDED

REAR BATTERY POSITION (INITIAL SETTING):
Foam spacer in front of battery.
More traction on rear suspension, less steering

FRONT BATTERY POSITION:
Foam spacer behind battery.
Less traction on rear suspension, more cornering speed

- 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.
- Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
- Mask all windows.

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



BODY REAMER (HUDY #107600)

WING CUTTING 4 LINE OPTIONS

INITIAL POSITION

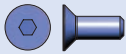
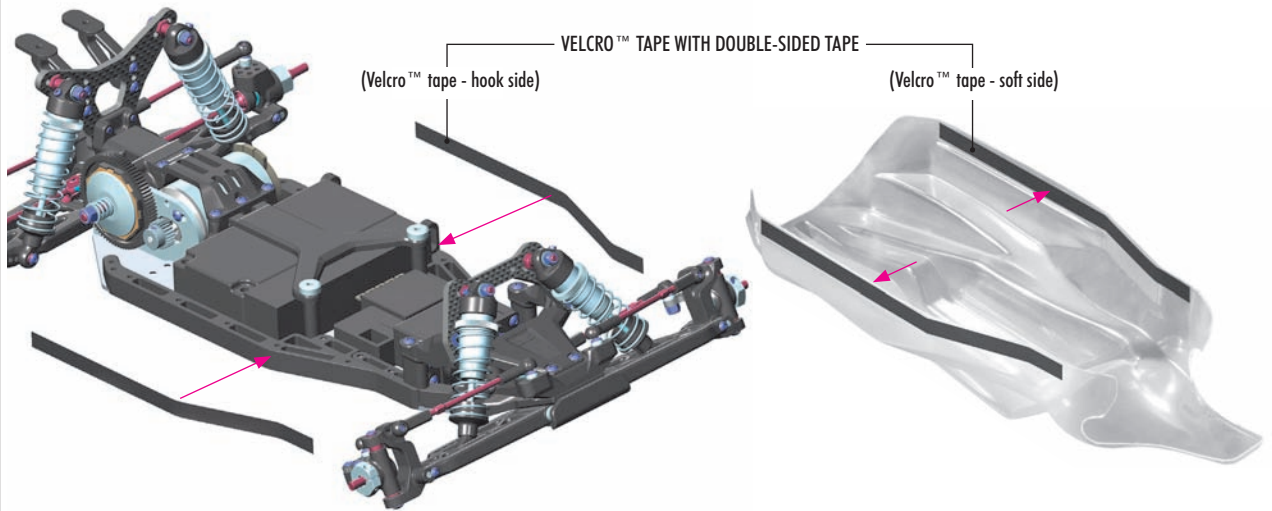
LESS TRACTION

MORE TRACTION

LEXAN BODY

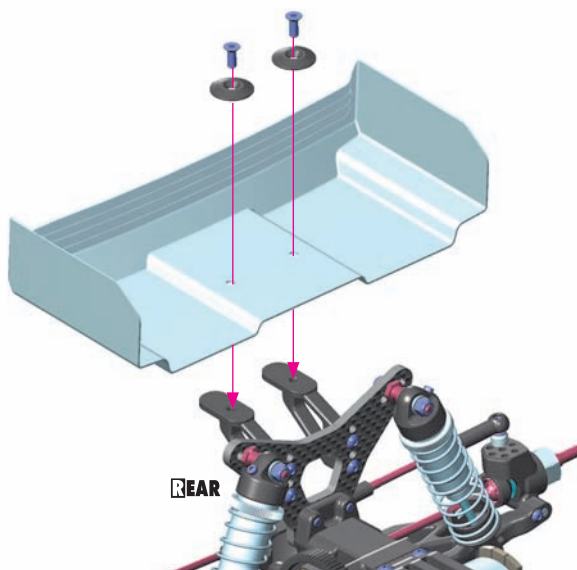
OPTION	#329700	0.75MM	INCLUDED
	#329701	0.5MM LIGHT	OPTION

2x 



903308
SFH M3x8

2x



OPTIONAL WING SHIM

#293561	ALU REAR WING SHIM SILVER	OPTION
#293561-0	ALU REAR WING SHIM ORANGE	OPTION



LEXAN REAR WING

#323510	1.0MM	INCLUDED
#323511	1.5MM	OPTION

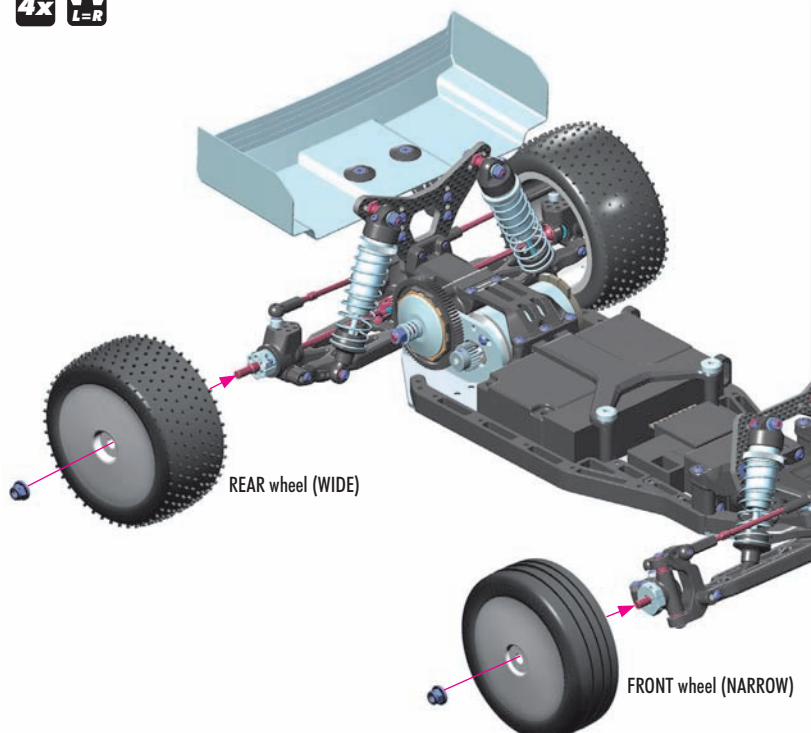
1.0mm THICK - More aggressive

1.5mm THICK - More stable, less aggressive



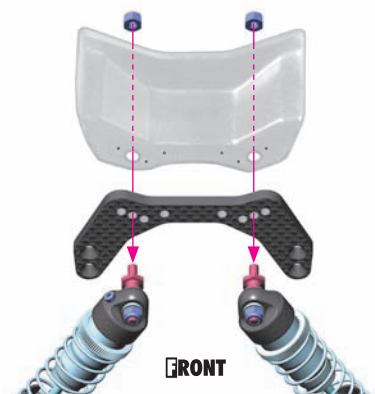
960240
N M4

4x 



FRONT WING

Cut the holes on the front wing based on your front shock position.




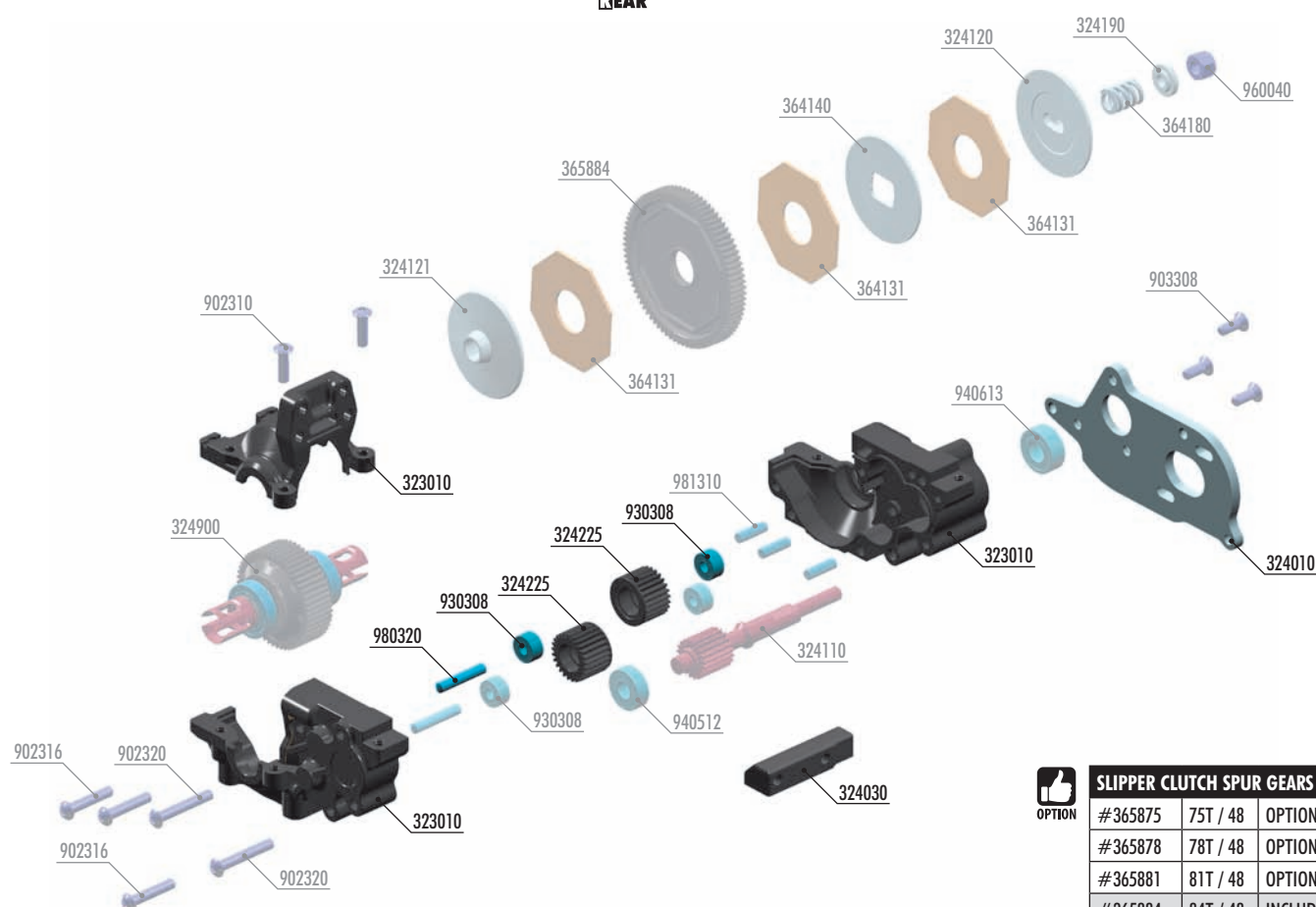
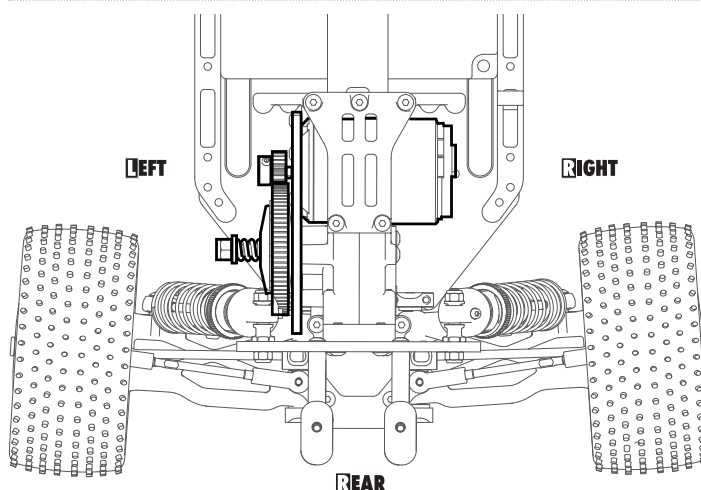
Using front wing increases steering.

LEFT MOTOR POSITION ASSEMBLY

LEFT MOTOR POSITION ASSEMBLY



 Follow these steps to change your motor position to the LEFT side.
Use the solidly-colored optional parts shown in the exploded view.



SLIPPER CLUTCH SPUR GEARS

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

- | | |
|---------|------------------------------------------------------------|
| 32 3010 | COMPOSITE MID GEAR BOX SET |
| 32 4010 | ALU MID MOTOR PLATE - SWISS 7075 T6 (3MM) |
| 32 4030 | COMPOSITE MOTOR PLATE BRACE |
| 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 4225 | COMPOSITE GEAR 25T - 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 5875 | COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 75T / 48 (OPTION) |
| 36 5878 | COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 78T / 48 (OPTION) |
| 36 5881 | COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 81T / 48 (OPTION) |
| 36 5884 | COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 84T / 48 |

- | | |
|----------------|------------------------------------------------------------|
| 36 5887 | COMPOSITE 3-PAD SLIPPER CLUTCH SPUR GEAR 87T / 48 (OPTION) |
| 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 (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 4900 | GEAR DIFFERENTIAL - SET |

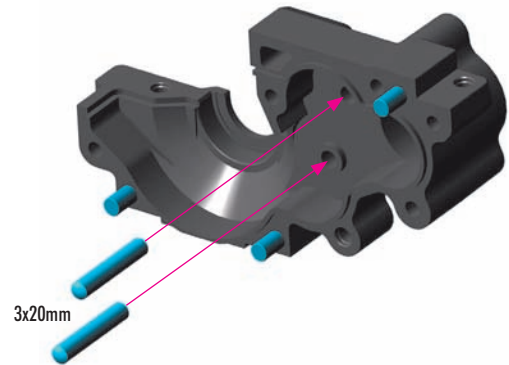
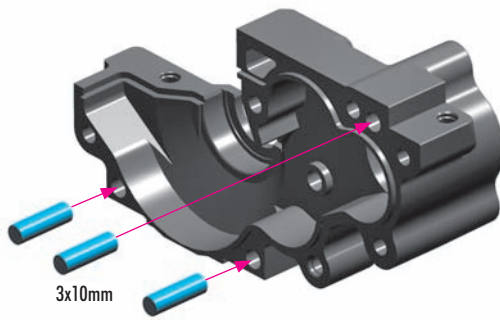
PAGE 8 / STEP 1



981310
P 3x10



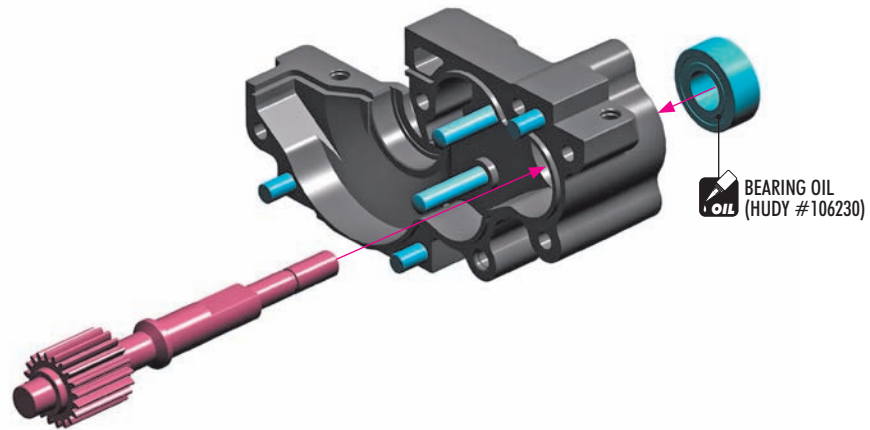
980320
P 3x20



PAGE 8 / STEP 2



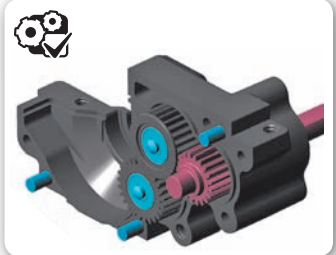
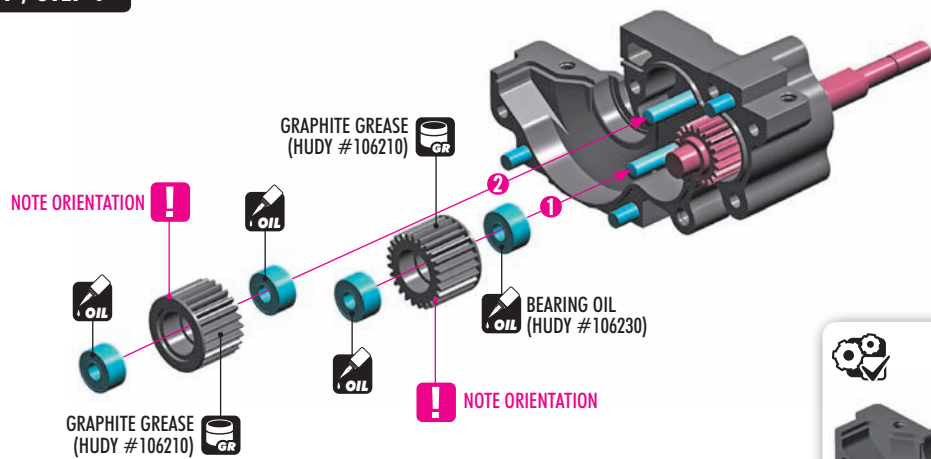
940613
BB 6x13x5




PAGE 9 / STEP 1




930308
BB 3x8x4



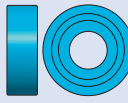
LEFT MOTOR POSITION ASSEMBLY



902316
SH M3x16

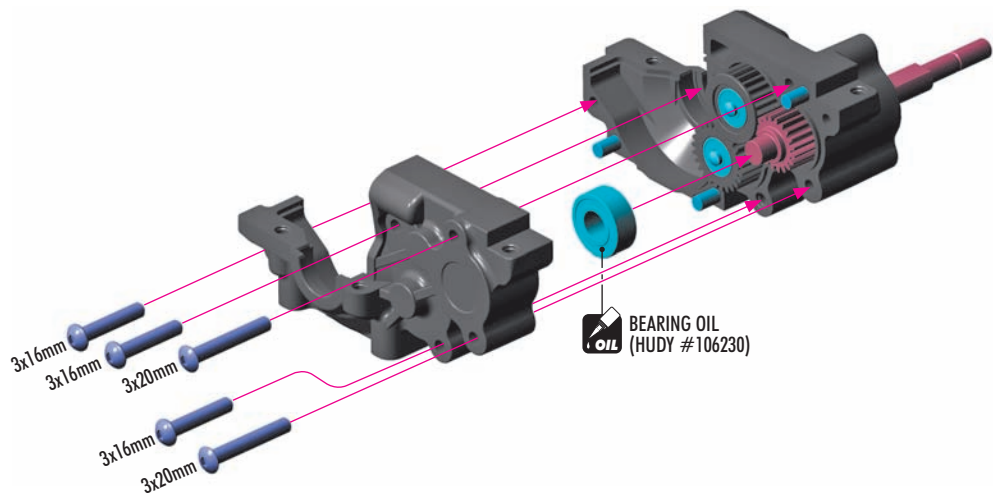


902320
SH M3x20



940512
BB 5x12x4

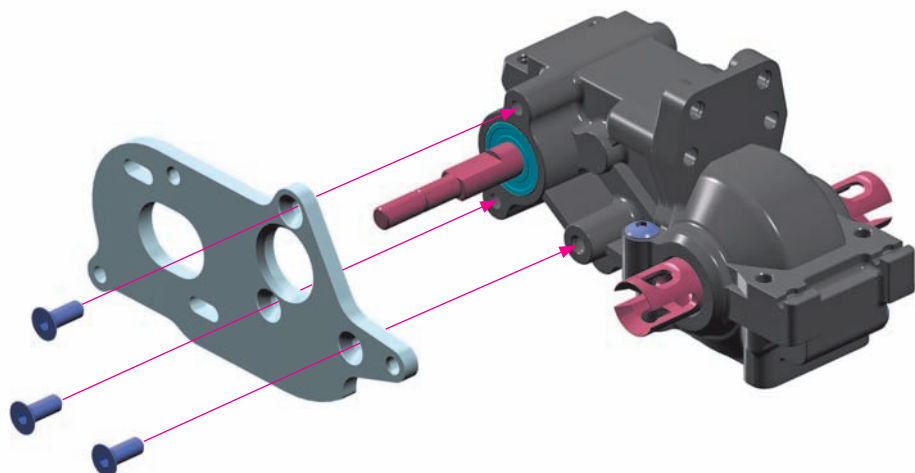
PAGE 9 / STEP 2



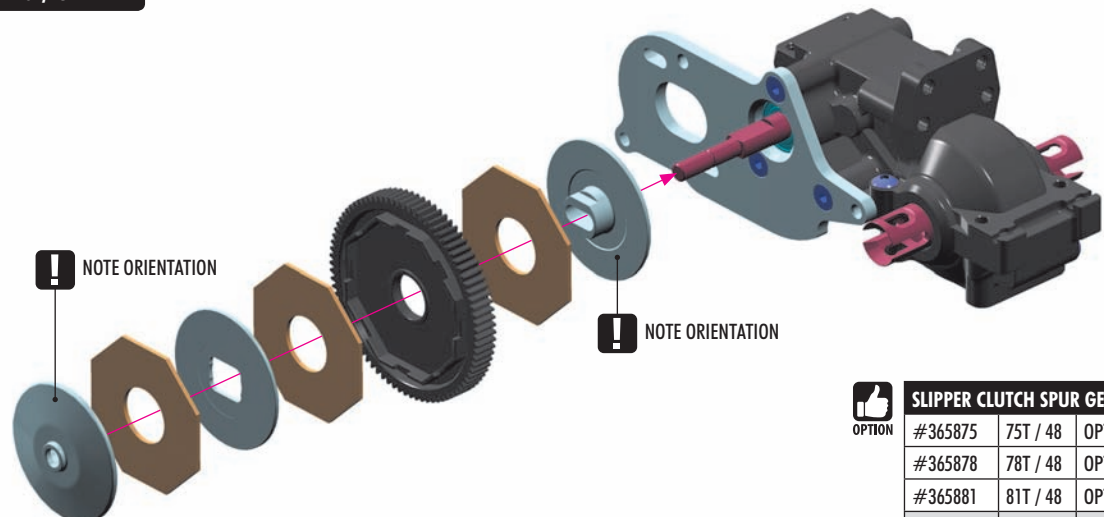



903308
SFH M3x8

PAGE 10 / STEP 1



PAGE 10 / STEP 2

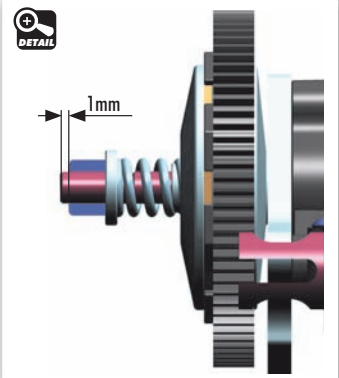
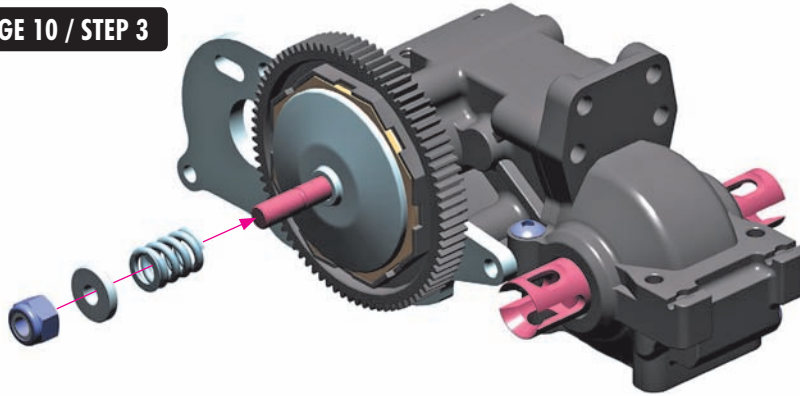


 OPTION	SLIPPER CLUTCH SPUR GEARS		
	#365875	75T / 48	OPTION
	#365878	78T / 48	OPTION
	#365881	81T / 48	OPTION
	#365884	84T / 48	INCLUDED
	#365887	87T / 48	OPTION

LEFT MOTOR POSITION ASSEMBLY



PAGE 10 / STEP 3



PAGE 30 / STEP 1



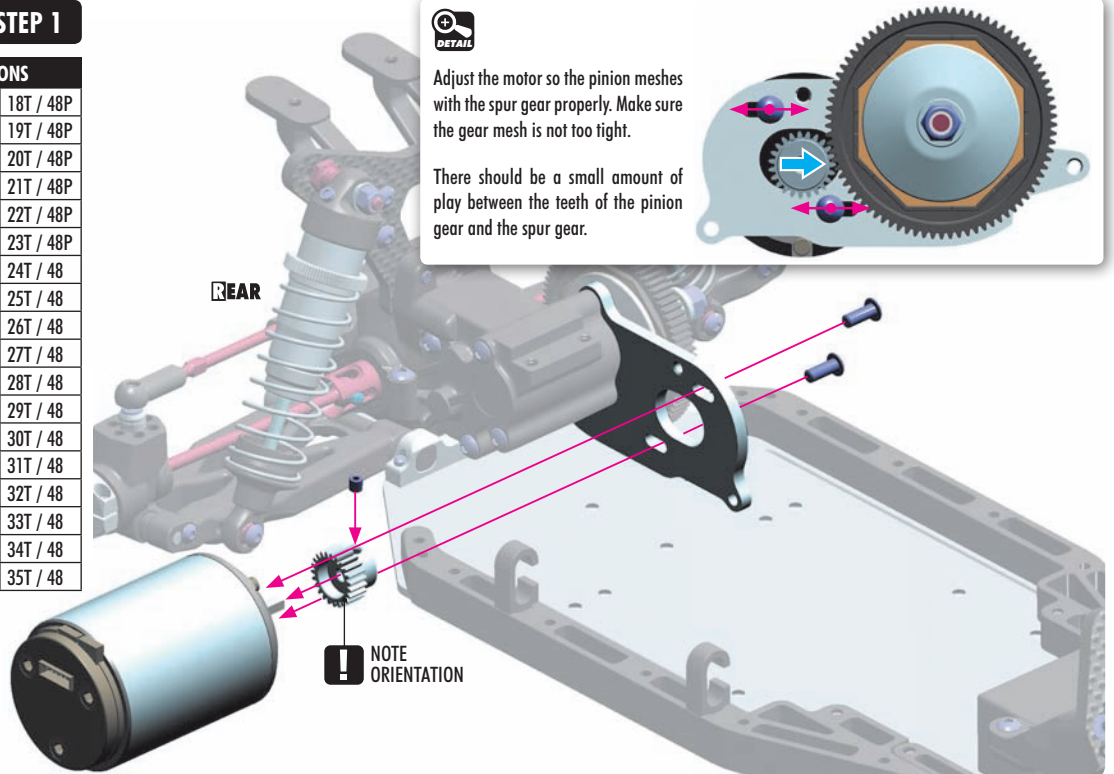
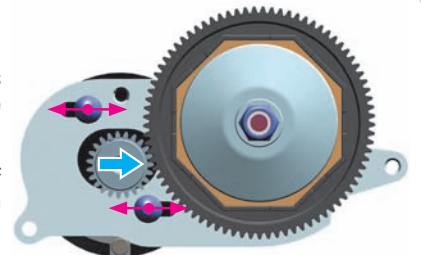
XRAY PINIONS

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



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.

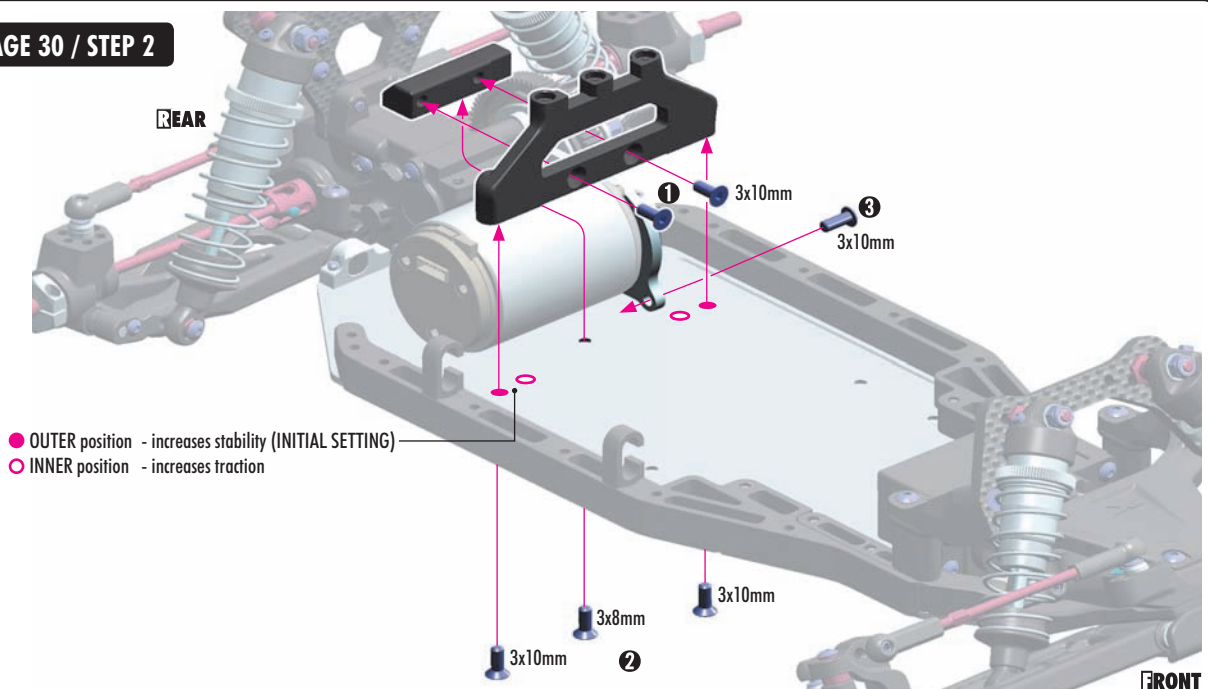


NOTE ORIENTATION



PAGE 30 / STEP 2

REAR



- OUTER position - increases stability (INITIAL SETTING)
- INNER position - increases traction

FRONT

SHOCK MAINTENANCE

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

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

BEARING MAINTENANCE

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

The XB2 ball-bearings are degreased and are lubricated with HUDY Bearing Oil. The following procedures are recommended to clean all of the bearings in your off-road car. For high-competition racing, we recommended doing this every 3-4 weeks, or before a major race.

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

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

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

RECOMMENDED PRODUCTS

- Use #106230 HUDY Bearing Oil to lubricate the bearings.

HUDY #106230



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 XB2

RACE		
TRACK		
NAME		DATE

LAPS		BEST LAP TIME	sec
QUALIFYING POSITION		FINAL POSITION	

TRACK			
SIZE	<input type="checkbox"/> OPEN	<input type="checkbox"/> MEDIUM	<input type="checkbox"/> TIGHT
TRACTION	<input type="checkbox"/> LOW	<input type="checkbox"/> MEDIUM	<input type="checkbox"/> HIGH
SURFACE	<input type="checkbox"/> SMOOTH	<input type="checkbox"/> MEDIUM	<input type="checkbox"/> BUMPY
TYPE	<input type="checkbox"/> CLAY	<input type="checkbox"/> CARPET	<input type="checkbox"/> ASTRO
CONDITION	<input type="checkbox"/> BLUE GROOVE	<input type="checkbox"/> HARD PACKED	<input type="checkbox"/> DRY
	<input type="checkbox"/> DUSTY	<input type="checkbox"/> LOAMY	<input type="checkbox"/> WET

TRANSMISSION			
DIFFERENTIAL	BALL DIFF	<input type="checkbox"/> GEAR DIFF	OIL <input type="text"/>
SATELLITE GEARS	COMPOSITE	<input type="checkbox"/> STEEL	
SLIPPER	ADJUSTMENT		mm <input type="text"/>

GEARING			
PINION	<input type="text"/>	T	SPUR GEAR
			T

FRONT	SHOCKS	REAR
SPRINGS		
OIL		
REBOUND		
PISTONS		
<input type="checkbox"/> 2 HOLES	<input type="checkbox"/> ø1.0mm	<input type="checkbox"/> 2 HOLES
<input type="checkbox"/> 3 HOLES	<input type="checkbox"/> ø1.1mm	<input type="checkbox"/> 3 HOLES
<input type="checkbox"/> 6 HOLES	<input type="checkbox"/> ø1.2mm	<input type="checkbox"/> 6 HOLES
<input type="checkbox"/> HOLES	<input type="checkbox"/> ø1.3mm	<input type="checkbox"/> HOLES
<input type="checkbox"/> HOLES	<input type="checkbox"/> ø1.4mm	<input type="checkbox"/> HOLES
DOWNSTOP SHIM		DOWNSTOP SHIM
LENGTH		LENGTH
UPSTOP SHIM		UPSTOP SHIM
KIT	BALL JOINT	KIT

FRONT	SHOCK TOWER	REAR
GRAPHITE	<input type="checkbox"/> COMPOSITE	GRAPHITE
	<input type="checkbox"/> COMPOSITE	

REAR ANTI ROLL BAR	
YES	<input type="checkbox"/> NO
THICKNESS	mm <input type="text"/>

FRONT	TIRES	REAR
TYPE		
INSERTS		
WHEELS		

ELECTRONICS	
MOTOR	<input type="text"/>
SPEEDO	<input type="text"/>
BATTERIES	<input type="text"/>

ELECTRONICS LAYOUT			
MOTOR POSITION	<input type="checkbox"/> FRONT	<input type="checkbox"/> MIDDLE	<input type="checkbox"/> REAR
	<input type="checkbox"/> LEFT	<input type="checkbox"/> RIGHT	
BATTERY POSITION	<input type="checkbox"/> FRONT	<input type="checkbox"/> MIDDLE	<input type="checkbox"/> REAR

BODY	
STANDARD	<input type="checkbox"/> LIGHT
OTHER	<input type="text"/>

COMMENTS

FRONT	APPLIED	APPLIED	REAR
STEERING BLOCK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DRIVE SHAFT
MEDIUM	<input type="checkbox"/>		CVD
HARD	<input type="checkbox"/>		ECS
LONGER BUSHINGS	<input type="checkbox"/>		REAR UPRIGHT
UP	<input type="checkbox"/>		FRONT
DOWN	<input type="checkbox"/>		REAR
SHIM	mm <input type="text"/>		MEDIUM
CAMBER LINK LOCATION			HARD
UPPER SHOCK POSITION			ALU
LOWER SHOCK POSITION			

FRONT	REAR
CASTER BUSHINGS	WING CUTTING LINE
0°	<input type="checkbox"/> +
2.5°	<input type="checkbox"/> 0
5°	<input type="checkbox"/> -
CASTER	WING TYPE
FRONT WING	1.0mm THICK
YES	<input type="checkbox"/>
NO	<input type="checkbox"/>
BUMP STEER SHIM	1.5mm THICK
mm <input type="text"/>	<input type="checkbox"/>
KICK-UP ANGLE	SHOCK POSITION
KIT 26°	FRONT
<input type="checkbox"/>	<input type="checkbox"/> REAR
WING POSITION	
	UP
	DOWN

FRONT TOE	OUT	REAR TOE	IN
OFFSET	WHEELBASE SHIM	WHEELBASE SHIM	OFFSET
0mm	0mm	0mm	0mm
1mm	1mm	1mm	1mm
2mm	2mm	2mm	2mm
WHEELBASE SHIM	WHEELBASE SHIM	WHEELBASE SHIM	WHEELBASE SHIM
IN FRONT OF ARM	IN FRONT OF ARM	IN FRONT OF ARM	IN FRONT OF ARM
ROLL CENTER	ROLL CENTER	ROLL CENTER	ROLL CENTER
ROLL CENTER HOLDER	ROLL CENTER HOLDER	ROLL CENTER HOLDER	ROLL CENTER HOLDER
MEDIUM	MEDIUM	MEDIUM	MEDIUM
HARD	HARD	HARD	HARD
ALU	ALU	ALU	ALU
UPPER DECK	UPPER DECK	UPPER DECK	UPPER DECK
MEDIUM	MEDIUM	MEDIUM	MEDIUM
HARD	HARD	HARD	HARD
BATTERY STRAP	BATTERY STRAP	BATTERY STRAP	BATTERY STRAP
COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE
GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
SCREW	SCREW	SCREW	SCREW
YES	YES	YES	YES
NO	NO	NO	NO

SHIMS	SHIMS	ROLL CENTER ECCENTRIC BUSHINGS
mm <input type="text"/>	mm <input type="text"/>	0.5°
ACKERMANN LEFT = RIGHT	ACKERMANN LEFT = RIGHT	1°
STEERING ARMS	STEERING PLATE	0.5°
COMPOSITE	COMPOSITE	1°
ALU	ALU	
BUMP STEER SHIM	BUMP STEER SHIM	
mm <input type="text"/>	mm <input type="text"/>	

FRONT CAMBER	REAR CAMBER
FRONT ARM	REAR ARM
MEDIUM	MEDIUM
HARD	HARD
GRAPHITE	GRAPHITE
RIDE HEIGHT	RIDE HEIGHT
mm <input type="text"/>	mm <input type="text"/>

FRONT	REAR
CHASSIS BRACE	CHASSIS
MEDIUM	ALU
HARD	
SERVO WEIGHT	CHASSIS FLEX
STANDARD	<input type="checkbox"/> SCREW USED
LOW PROFILE	<input type="checkbox"/> SCREW NOT USED
ARM MOUNT	
COMPOSITE	
ALU	
BRASS	

www.teamxray.com

XRAY EUROPE

XRAY, K VÝSTAVISKU 6992, 91101 TRENCIN, SLOVAKIA, EUROPE
PHONE: +421-32-740 11 00, FAX: +421-32-740 11 09, info@teamxray.com

XRAY USA

RC AMERICA, 2030 Century Center Blvd #15, Irving, TX 75062, USA
PHONE: 214-744-2400, FAX: 214-744-2401, xray@rcamerica.com