

1/10 LUXURY OFF-ROAD CAR 4WD

XRAY XB4

INSTRUCTION MANUAL

EUROPEAN
CHAMPIONS



MADE IN
EUROPE



INTRODUCTION

The XRAY XB4 is a modern, high-competition premium luxury racing 1/10 electric 4WD off-road buggy that is the epitome of high-performance and fine distinctive design. Your XB4 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 XB4.

XB4 was designed around a no compromise platform; the attention to detail creates a low maintenance, extra long life nitro 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 XB4 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 XB4 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.

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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.

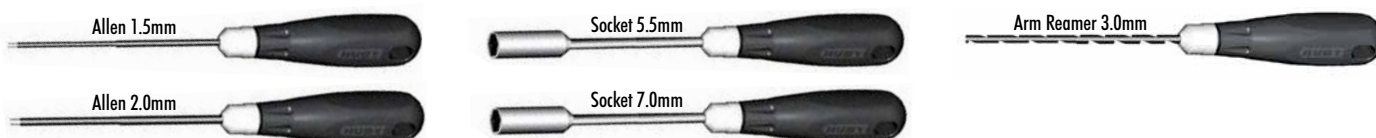
SYMBOLS USED

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 thread lock 	Apply CA glue
Apply oil 	Apply grease 	Apply cleaner 	Ensure smooth non-binding movement 	Tighten screw gently 	<div> <div>CORRECT </div> <div>WRONG </div> </div> <p>Overtightened The threads are stripped.</p>	Follow Set-Up Book

TOOLS REQUIRED

Scissors (HUDY #188990) 	Special Tool for turnbuckles, nuts (HUDY #181090) 	Combination Pliers (HUDY #189020) 	Side Cutters (HUDY #189010) 	Hobby Knife 	Turnbuckle Wrench 3mm (HUDY #181030) 	Reamer (HUDY #107600) or (HUDY #107601)
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HUDY TOOLS:



EQUIPMENT INCLUDED

XRAY Premium Silicone Oils 	Graphite Grease (HUDY #106210)
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NOT INCLUDED

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

SAMPLE OF OPTIONAL PARTS

#36XXXX	OPTION 1
#36XXXX	OPTION 2
#36XXXX	OPTION 3

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

EQUIPMENT REQUIRED

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

XB4 TECH TIPS

TIP DRIVE SHAFT PIN SERVICING

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



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

2 Press out the worn pins.

3 Press in new pins and regularly inspect for wear.



For easy and comfortable 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

Follow this tech tip to protect the following graphite parts:

Protect all XB4 Graphite Parts:

- Front shock tower
- Rear shock tower

! 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.



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

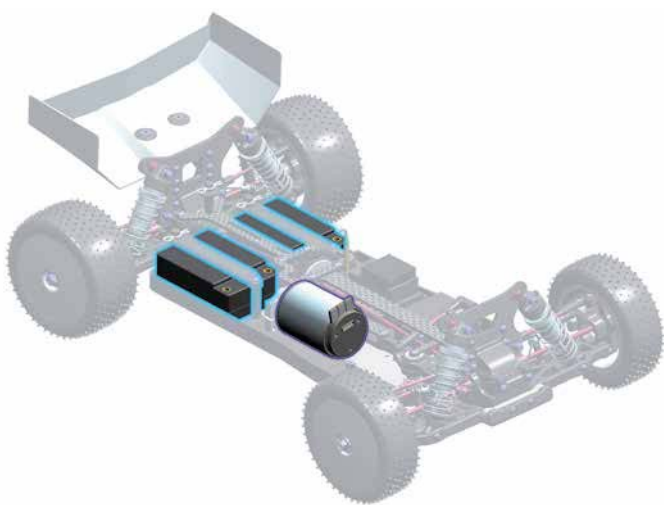


CA
Apply CA glue to all edges of the graphite parts.

MOTOR POSITION ALTERNATIVES

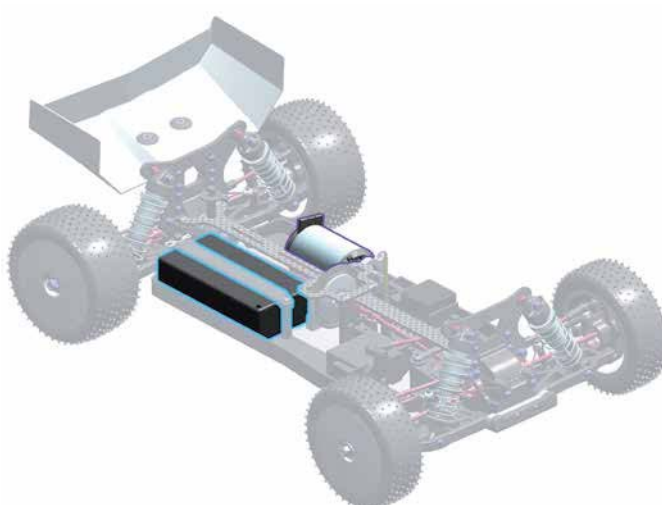
The XB4 can be assembled to fit either the saddle battery pack or short battery pack. Depending on the version you choose to build you have to follow the assembly instructions. The Instruction Manual shows the assembly of saddle pack batteries. If you want to build the car with the alternative short battery pack (rearward motor position), follow the supplementary instructions starting on page 39 (using parts from Bag 09).

FORWARD MOTOR POSITION SADDLE PACK BATTERIES



INITIAL ASSEMBLY
PAGES 6~38.

REARWARD MOTOR POSITION SHORT BATTERY PACK



INITIAL ASSEMBLY
PAGES 39~44.

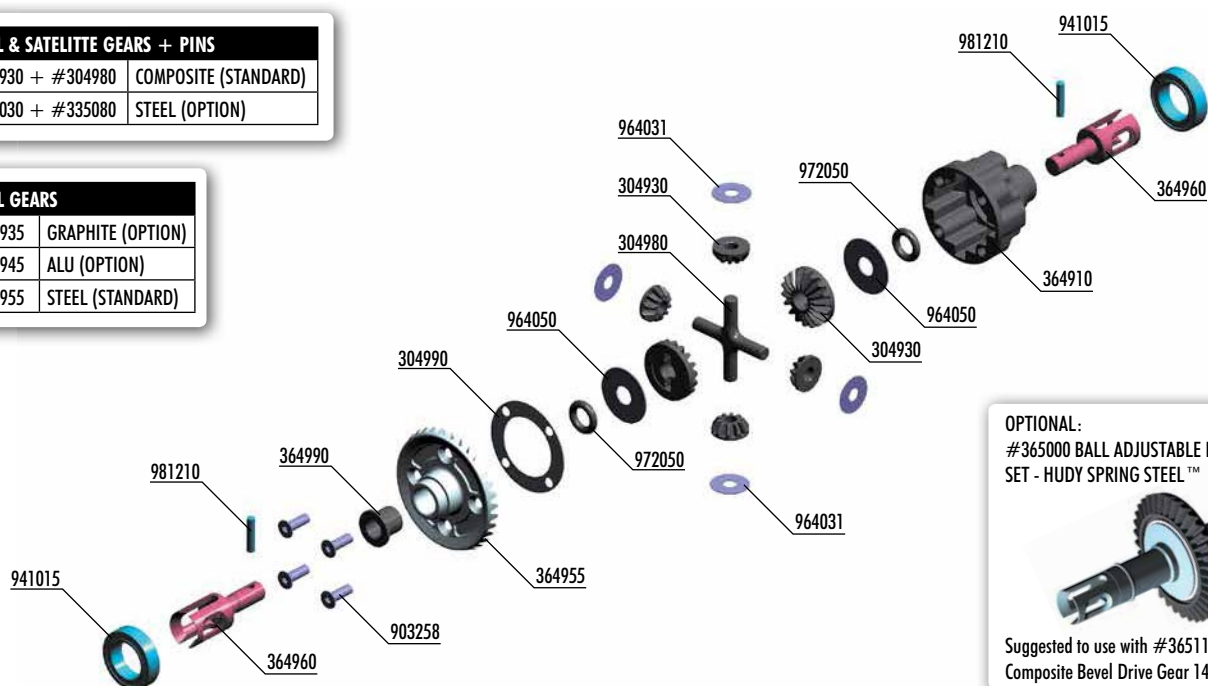
1. FRONT & REAR DIFFERENTIAL

BEVEL & SATELITTE GEARS + PINS

#304930 + #304980	COMPOSITE (STANDARD)
#335030 + #335080	STEEL (OPTION)

BEVEL GEARS

#364935	GRAPHITE (OPTION)
#364945	ALU (OPTION)
#364955	STEEL (STANDARD)



OPTIONAL:
#365000 BALL ADJUSTABLE DIFFERENTIAL
SET - HUDY SPRING STEEL™



Suggested to use with #365114 Graphite Composite Bevel Drive Gear 14T.



30 4930	COMPOSITE GEAR DIFF BEVEL & SATELLITE GEARS (2 +4)
30 4980	COMPOSITE GEAR DIFF CROSS PIN
30 4990	DIFF GASKET (4)
36 4900	GEAR DIFFERENTIAL - SET
36 4910	COMPOSITE GEAR DIFFERENTIAL CASE
36 4955	STEEL DIFFERENTIAL BEVEL GEAR 35T
36 4960	GEAR DIFF OUTDRIVE ADAPTER - HUDY SPRING STEEL™ (2)

36 4990	COMPOSITE BEVEL GEAR BUSHING (2)
90 3258	HEX SCREW SFH 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)



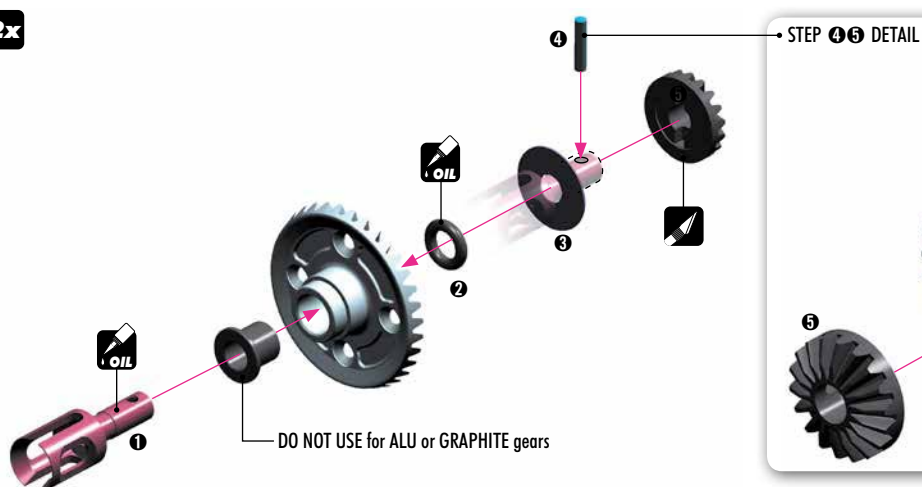
964050
\$ 5x15x0.3



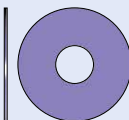
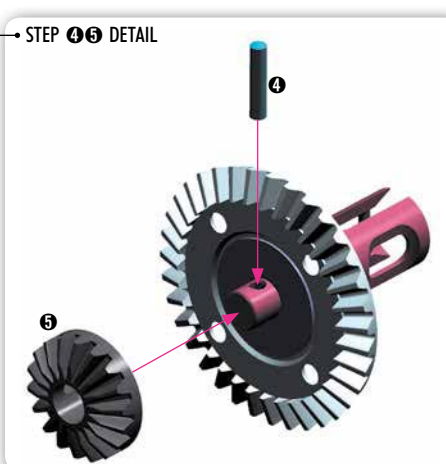
972050
Q.5x2



981210
P 2x10



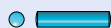
- DO NOT USE for ALU or GRAPHITE gears



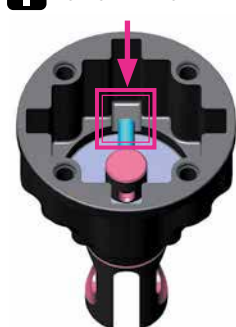
964050
S 5x15x0.3



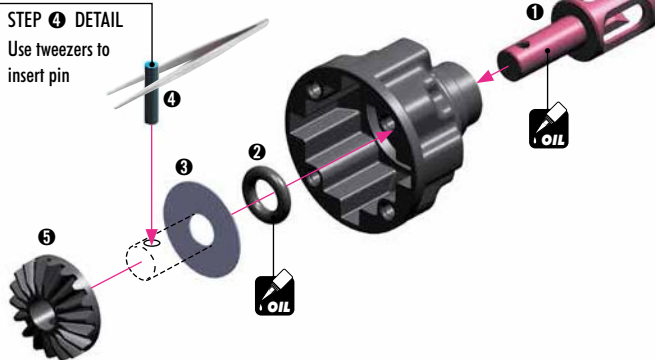
972050
Q 5x2



981210
P 2x10



STEP 4 **DETAIL**
Use tweezers to
insert pin

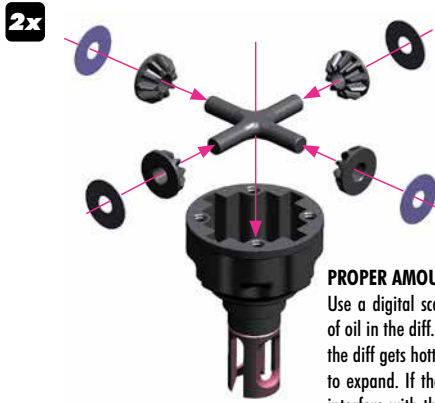


CUTAWAY VIEW





964031
S 3.5x10x0.2



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.

Front diff

Silicone oil 8 000cSt
Fill just above the satellite gears.

Rear diff

Silicone oil 8 000cSt
Fill just above the satellite gears.

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 9.80g)

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

$$9.80g + 1.32g = 11.12g$$



2 Slowly pour oil into the diff and watch the weight. Add 1.32g of oil into the diff. The approximate weight of the diff including oil is 11.12g.

TIPS FOR DIFFERENTIALS

TIP

FRONT DIFFERENTIAL

LOW TRACTION 5 000cSt (HUDY #106450)
MEDIUM-HIGH TRACTION 8 000cSt (HUDY #106480)
SUPER-HIGH TRACTION 10 000cSt (HUDY #106510)

NOTE:

Softer oil increases steering, harder oil increases stability.

REAR DIFFERENTIAL

LOW TRACTION 5 000cSt (HUDY #106450)
MEDIUM-HIGH TRACTION 8 000cSt (HUDY #106480)
SUPER-HIGH TRACTION 10 000cSt (HUDY #106510)

NOTE:

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

TIP

SET-UP BOOK

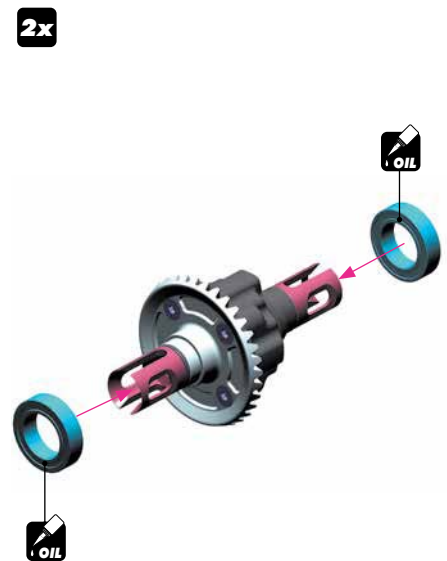
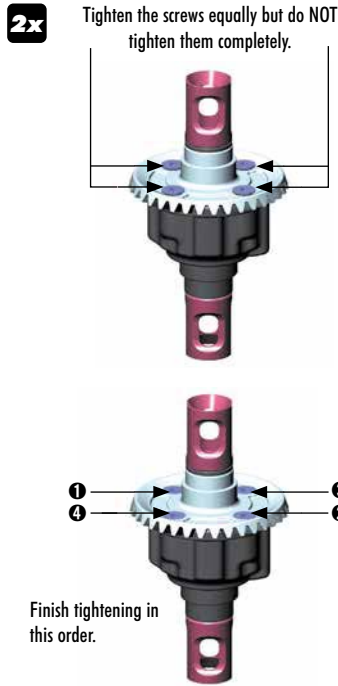
DIFFERENTIAL OIL



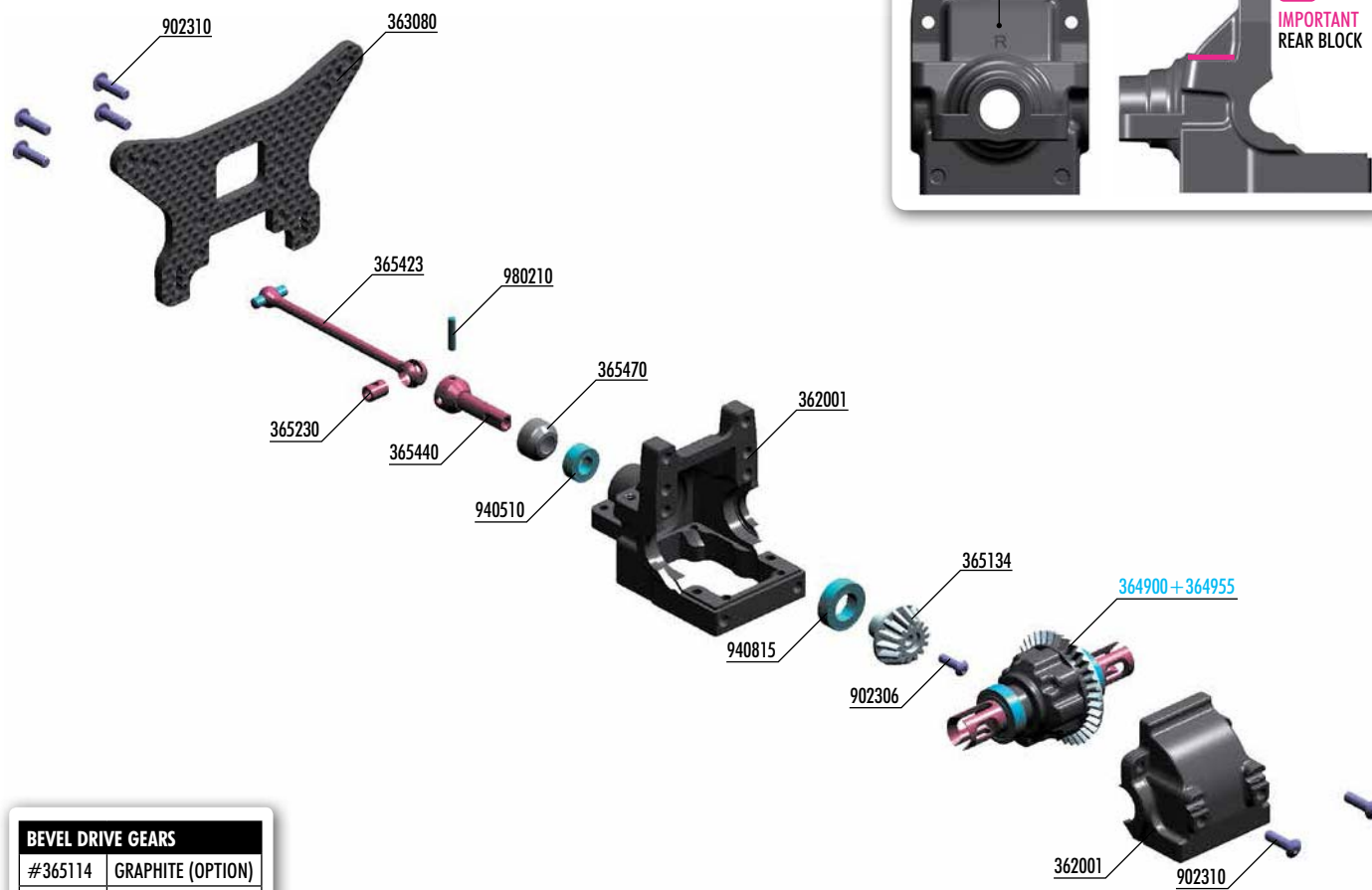
903258
SFH M2.5x8



941015
BB 10x15x4



2. REAR CENTRAL TRANSMISSION



BEVEL DRIVE GEARS

#365114	GRAPHITE (OPTION)
#365134	STEEL (STANDARD)

BAG

02

- 36 2001 DIFF BULKHEAD BLOCK SET REAR - V2
- 36 3080 GRAPHITE SHOCK TOWER REAR 3.0MM - V3
- 36 5134 STEEL BEVEL DRIVE GEAR 14T
- 36 5230 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
- 36 5423 CENTRAL DRIVE SHAFT 64MM - HUDY SPRING STEEL™
- 36 5440 CENTRAL SHAFT UNIVERSAL JOINT
- 36 5470 COMPOSITE DRIVE SHAFT SAFETY COLLAR - V2 (3)

- 90 2306 HEX SCREW SH M3x6 (10)
- 90 2310 HEX SCREW SH M3x10 (10)
- 94 0510 HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2)
- 94 0815 HIGH-SPEED BALL-BEARING 8x14x4 RUBBER SEALED (2)
- 98 0210 PIN 2x10 (10)

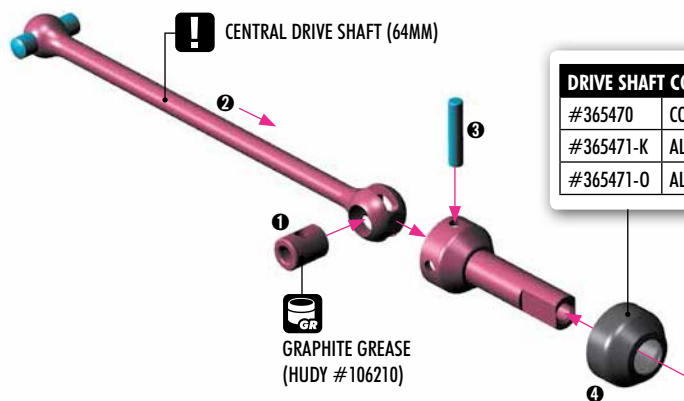
- 36 4900 GEAR DIFFERENTIAL - SET
- 36 4955 STEEL DIFFERENTIAL BEVEL GEAR 35T



980210
P 2x10

! DRIVE SHAFT COVER CAPS

Lubricate the drive shaft connecting joint properly so the drive shaft turns freely. In the event that not enough grease is used, the connecting pin may lock and may even, in extreme situations, push through the drive shaft cover cap.



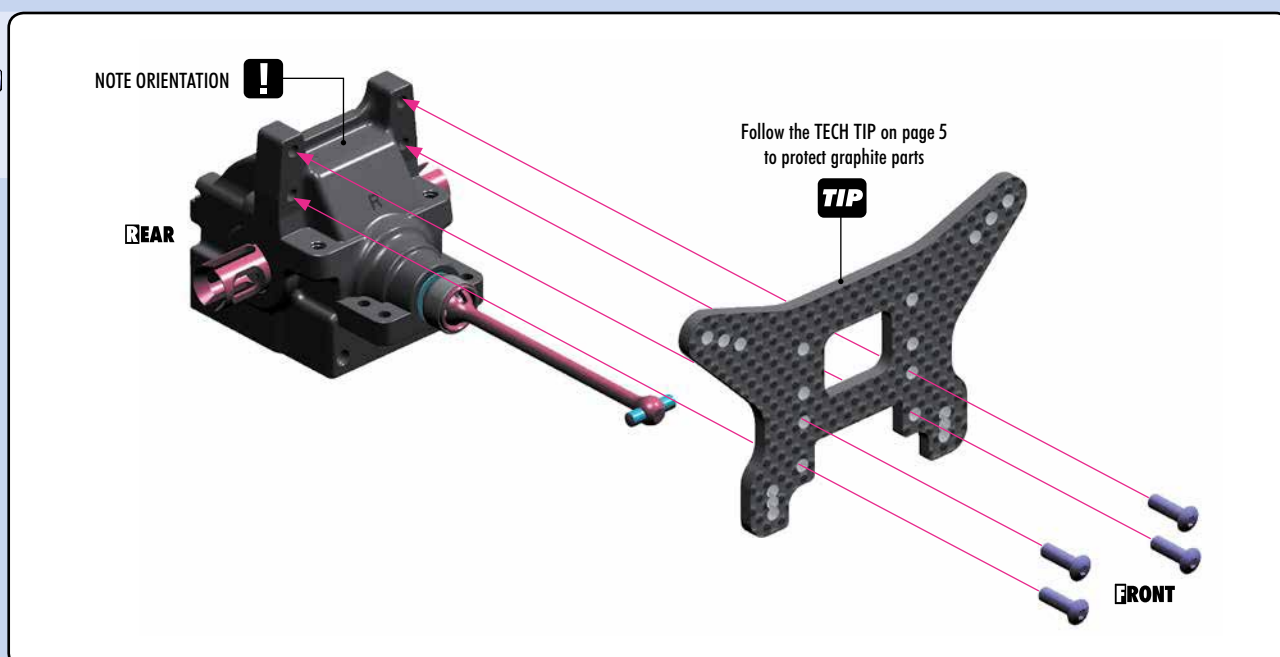
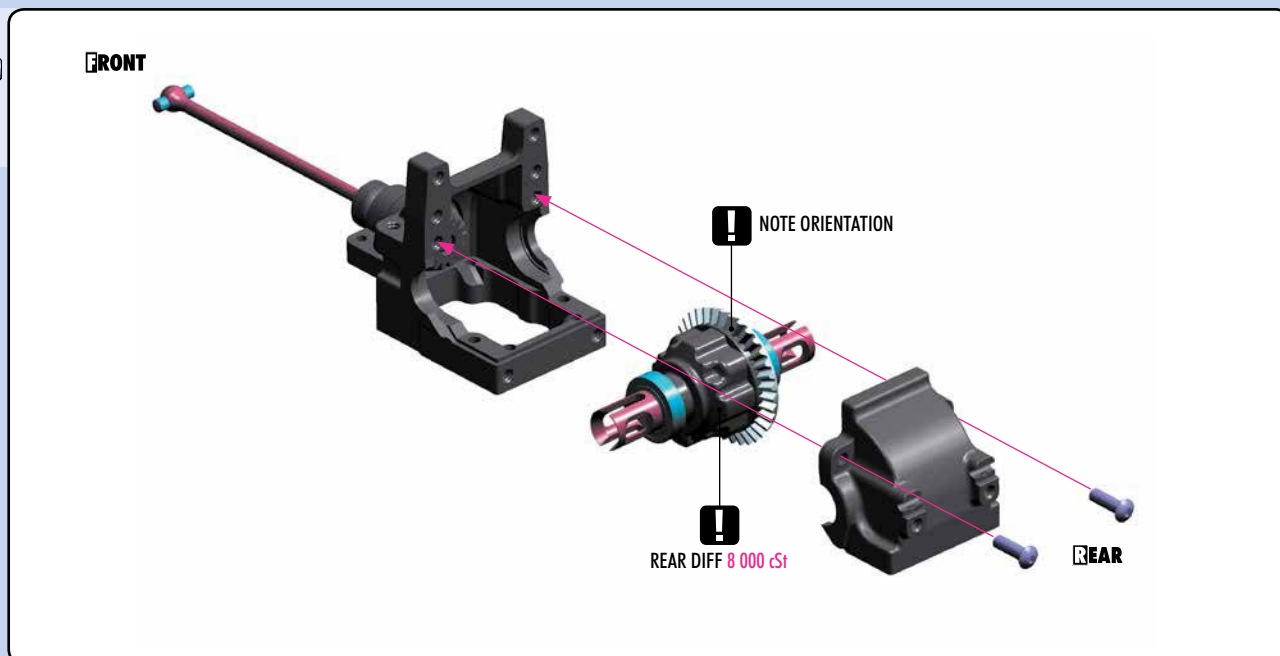
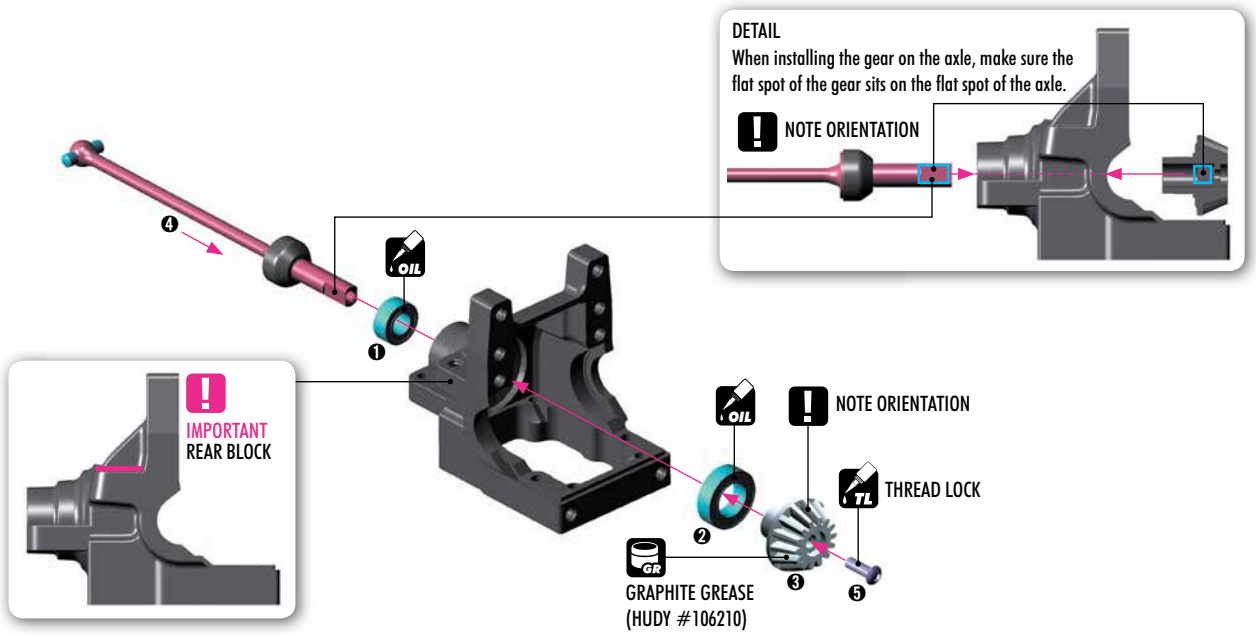
! CENTRAL DRIVE SHAFT (64MM)

DRIVE SHAFT COLLAR

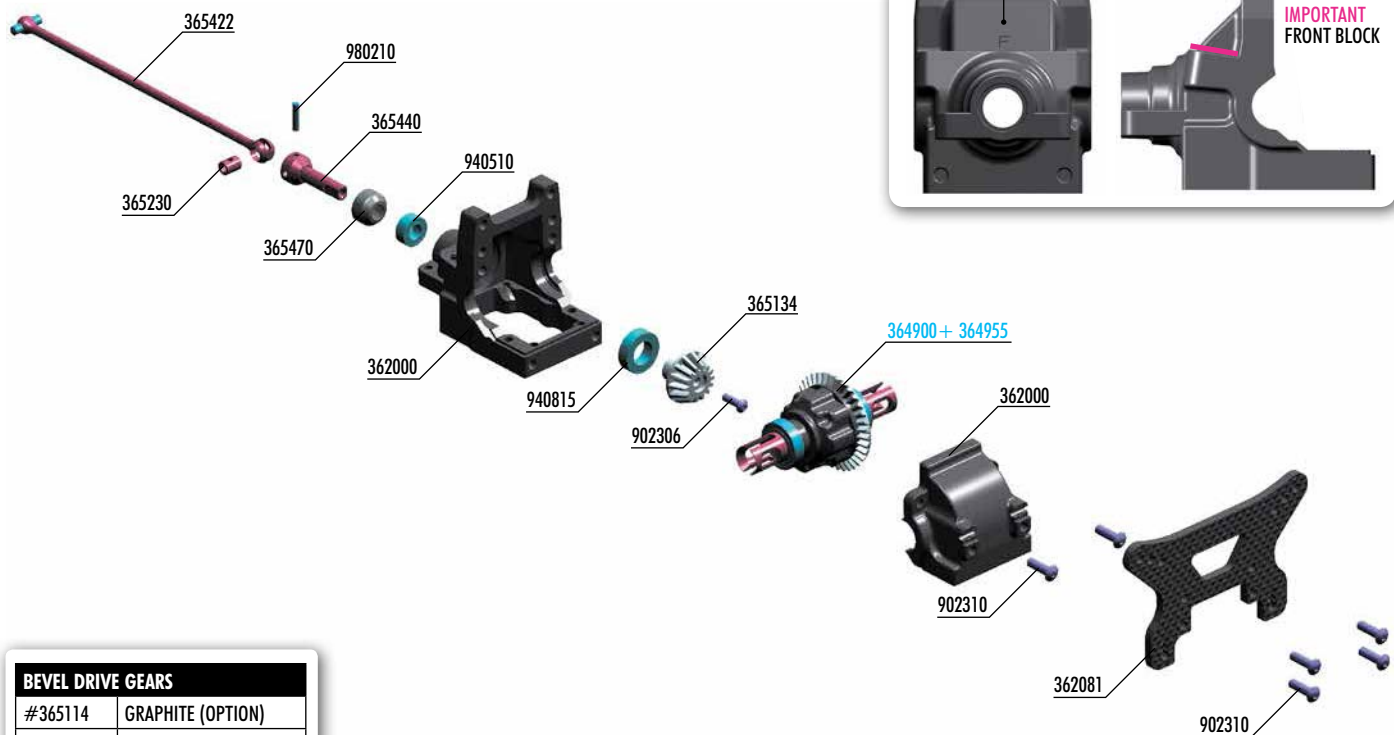
#365470	COMPOSITE (STANDARD)
#365471-K	ALU - BLACK (OPTION)
#365471-O	ALU - ORANGE (OPTION)

GRAPHITE GREASE
(HUDY #106210)

REAR CENTRAL TRANSMISSION



2. FRONT CENTRAL TRANSMISSION



BEVEL DRIVE GEARS

#365114	GRAPHITE (OPTION)
#365134	STEEL (STANDARD)

BAG

02

- 36 2000 DIFF BULKHEAD BLOCK SET FRONT - V2
- 36 2081 GRAPHITE SHOCK TOWER FRONT 3.5MM
- 36 5134 STEEL BEVEL DRIVE GEAR 14T
- 36 5230 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
- 36 5422 CENTRAL DRIVE SHAFT 116MM - HUDY SPRING STEEL™
- 36 5440 CENTRAL SHAFT UNIVERSAL JOINT
- 36 5470 COMPOSITE DRIVE SHAFT SAFETY COLLAR - V2 (3)
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- 36 4900 GEAR DIFFERENTIAL - SET
- 36 4955 STEEL DIFFERENTIAL BEVEL GEAR 35T

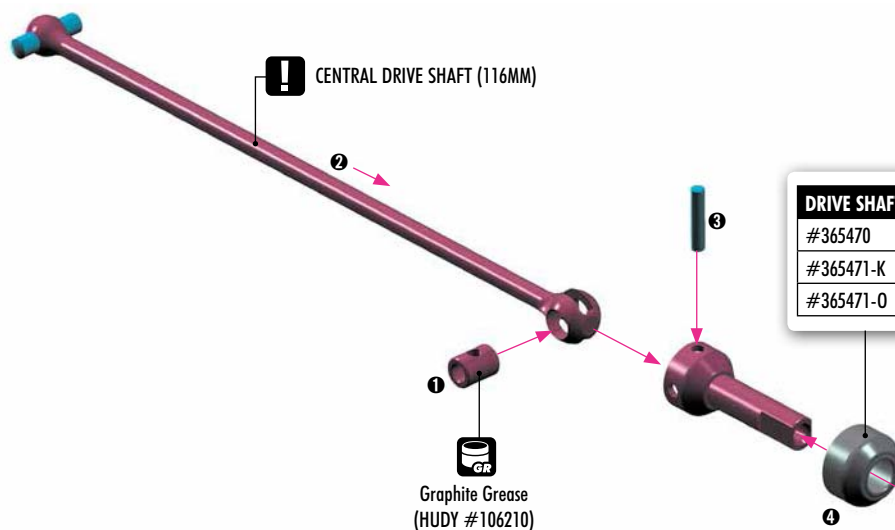


980210
P 2x10



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DRIVE SHAFT COLLAR

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#365471-K	ALU - BLACK (OPTION)
#365471-O	ALU - ORANGE (OPTION)

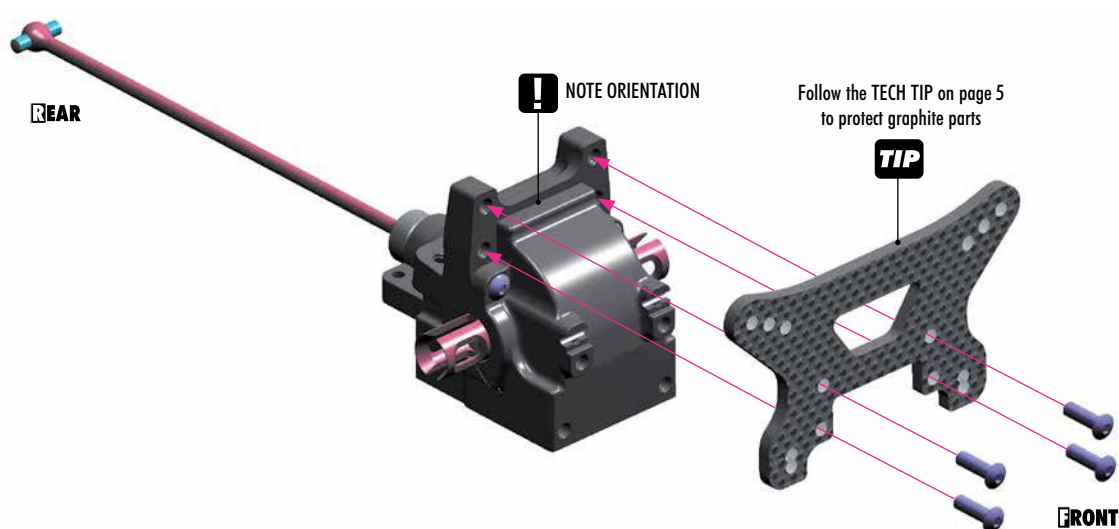
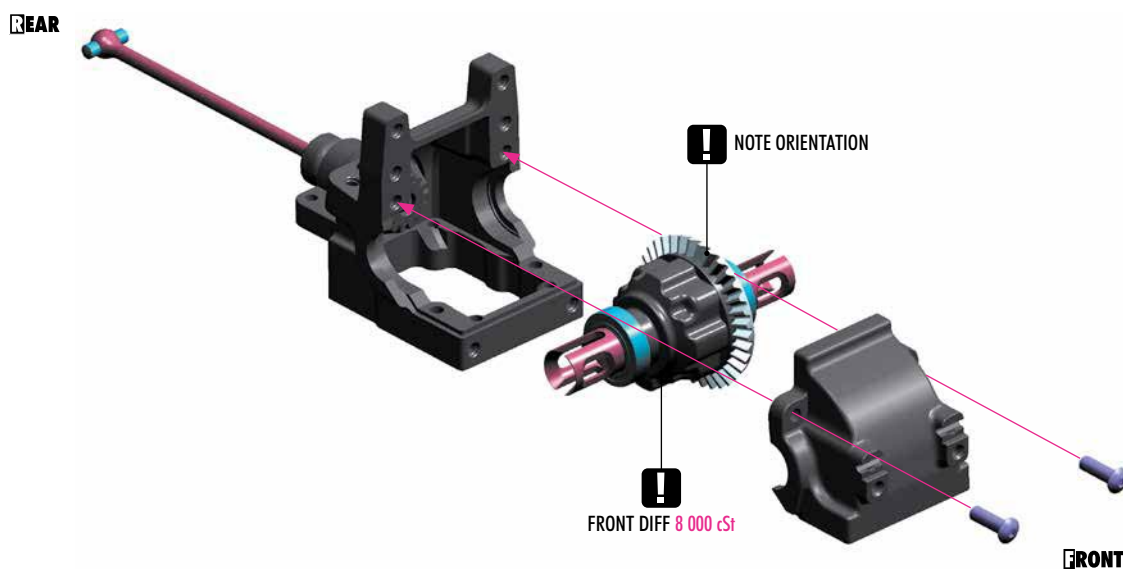
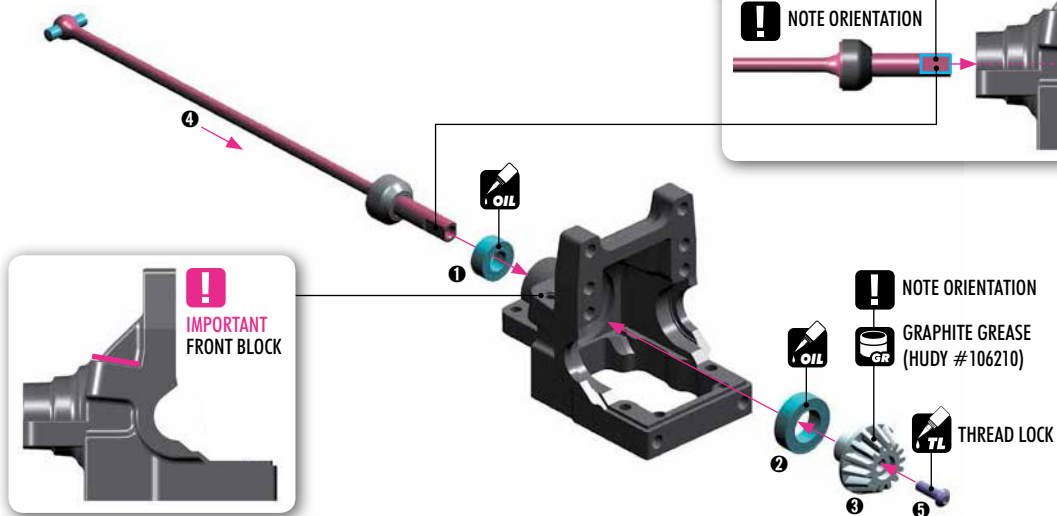
FRONT CENTRAL TRANSMISSION



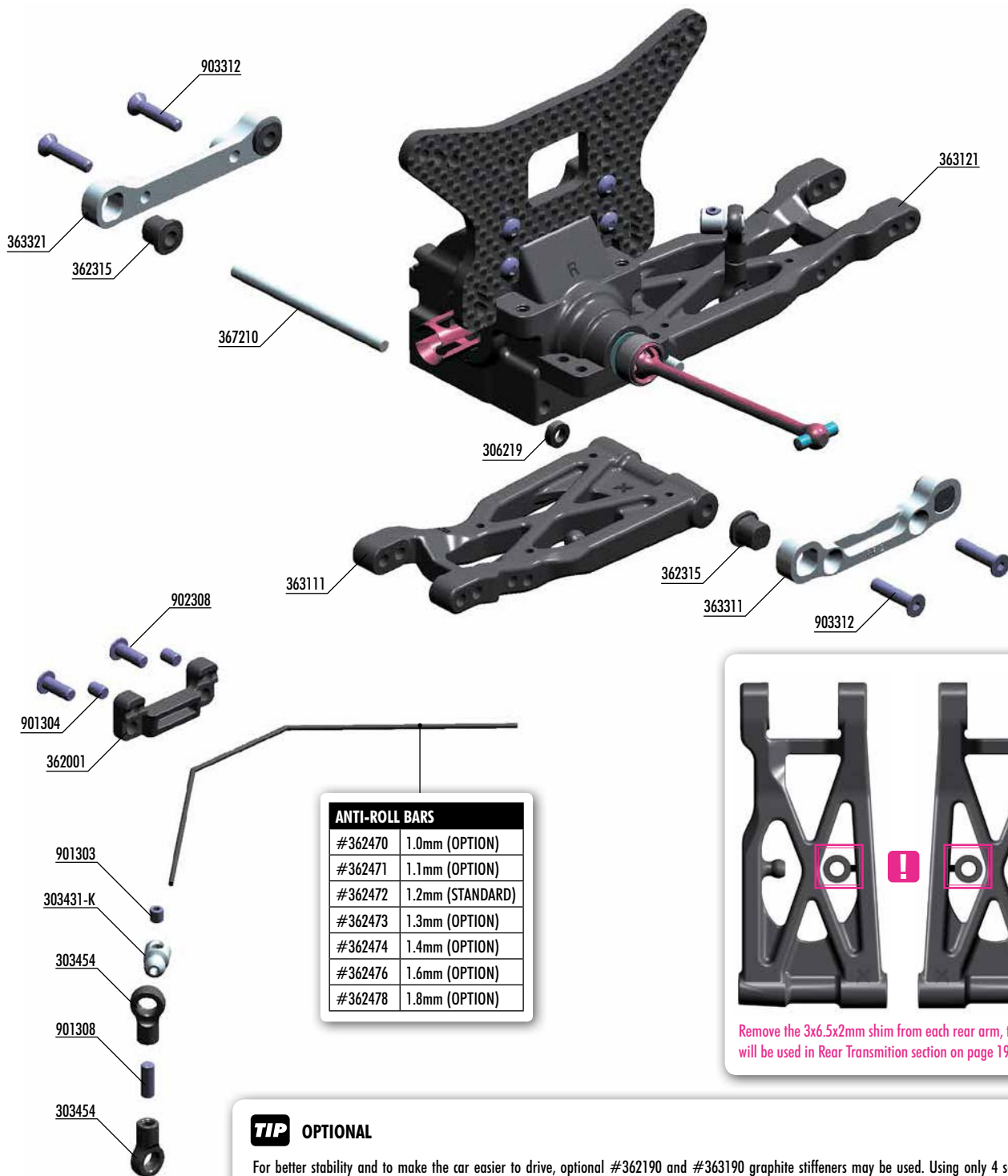
940510
BB 5x10x4



940815
BB 6x14x4



3. REAR SUSPENSION



Remove the 3x6.5x2mm shim from each rear arm, this shim will be used in Rear Transition section on page 19, step 1.

TIP OPTIONAL

For better stability and to make the car easier to drive, optional #362190 and #363190 graphite stiffeners may be used. Using only 4 screws, the graphite stiffener can be installed or removed which would completely change the characteristics of the car. Stiffeners may be used independently at front and/or rear.

IMPORTANT! Install / remove stiffeners equally on left & right sides.



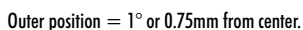
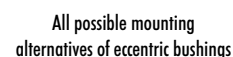
#363190
GRAPHITE REAR LOWER ARM PLATE 1.6MM (2) (OPTION)



BAG

03

30 3431-K	ALU 4.9MM BALL END - BLACK (2)	36 3111	COMPOSITE SUSPENSION ARM REAR LOWER RIGHT
30 3454	BALL JOINT 4.9MM - OPEN (4)	36 3121	COMPOSITE SUSPENSION ARM REAR LOWER LEFT
30 6219	COMPOSITE SET OF SERVO SHIMS (4)	36 3311	ALU REAR LOWER SUSP. HOLDER + 2 - FRONT - 7075 T6 (5MM)
36 2001	DIFF BULKHEAD BLOCK SET REAR - V2	36 3313	BRASS REAR LOWER SUSPENSION HOLDER SET + 2 - RR+RF (OPTION)
36 2315	ECCENTRIC BUSHING SET (2)	36 3321	ALU REAR LOWER SUSP. HOLDER + 2 - REAR - 7075 T6 (5MM)
36 2470	ANTI-ROLL BAR 1.0 MM (OPTION)	36 7210	SUSPENSION PIVOT PIN (2)
36 2471	ANTI-ROLL BAR 1.1 MM (OPTION)		
36 2472	ANTI-ROLL BAR 1.2 MM	90 1303	HEX SCREW SB M3x3 (10)
36 2473	ANTI-ROLL BAR 1.3 MM (OPTION)	90 1304	HEX SCREW SB M3x4 (10)
36 2474	ANTI-ROLL BAR 1.4 MM (OPTION)	90 1308	HEX SCREW SB M3x8 (10)
36 2476	ANTI-ROLL BAR 1.6 MM (OPTION)	90 2308	HEX SCREW SH M3x8 (10)
36 2478	ANTI-ROLL BAR 1.8 MM (OPTION)	90 3312	HEX SCREW SFH M3x12 (10))

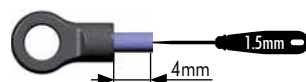
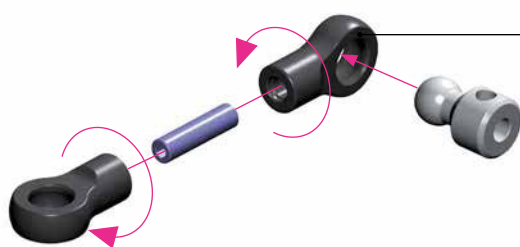


$0(RR) - 1(RF) = 3^\circ$ $= 3^\circ$

REAR SUSPENSION

901308
SB M3x8

2x
L=R



ASSEMBLY VIEW



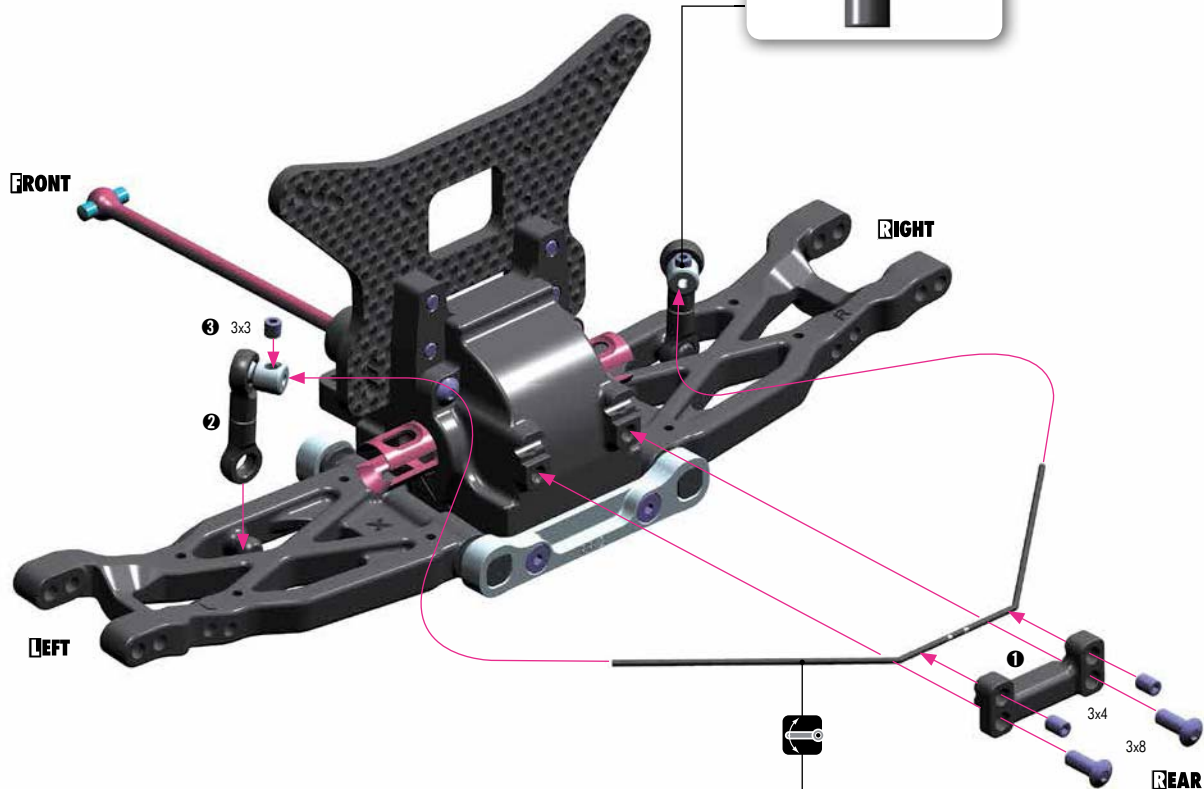
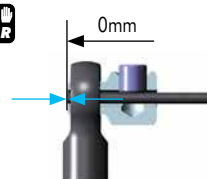
901303
SB M3x3

901304
SB M3x4

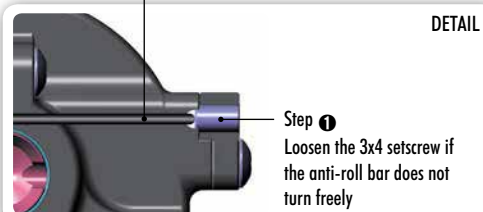
902308
SH M3x8

STEP ③ DETAIL

L=R



Step ① check for free movement

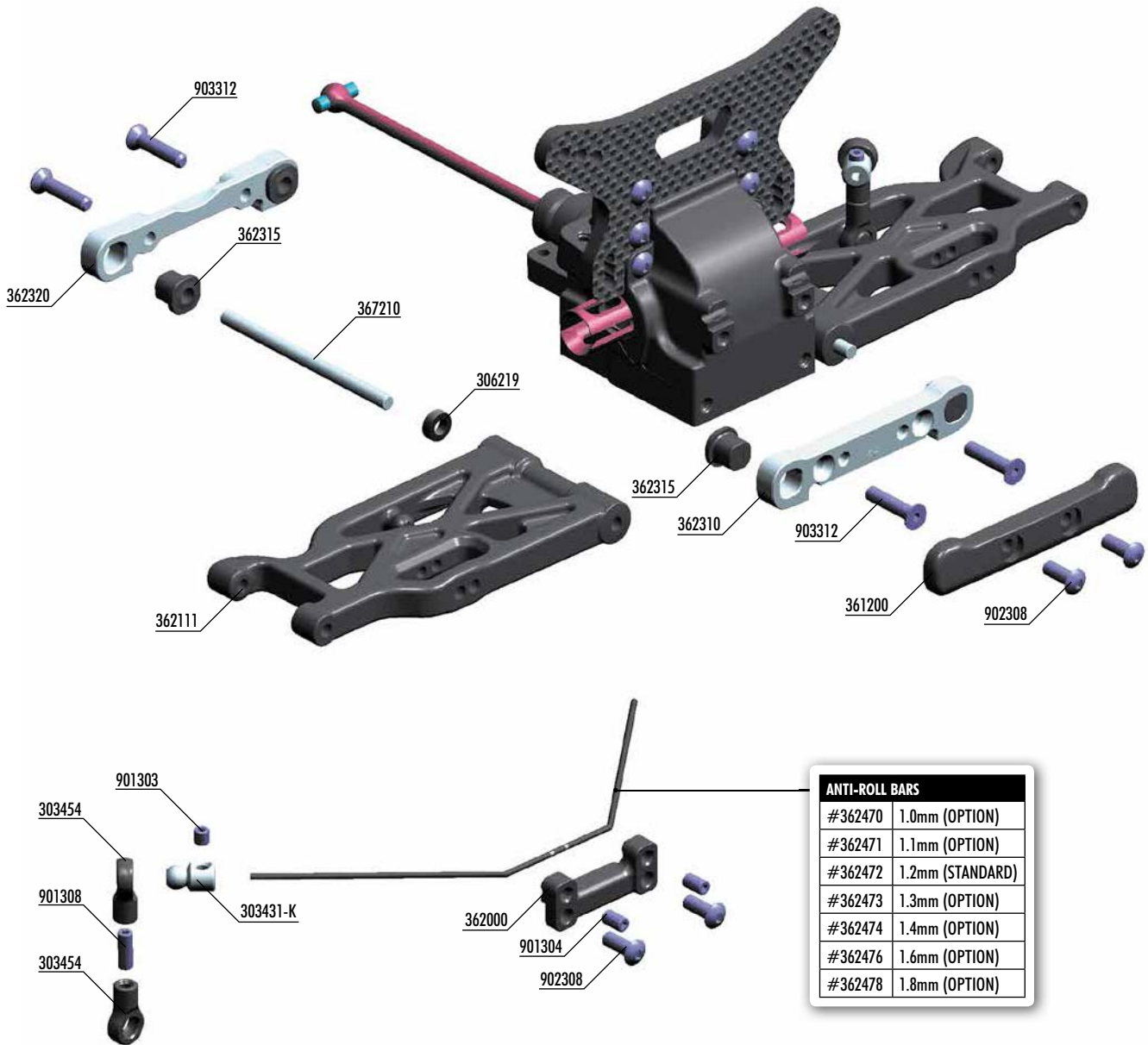


Step ①
Loosen the 3x4 setscrew if
the anti-roll bar does not
turn freely

SET-UP
BOOK

ANTI-ROLL BAR

3. FRONT SUSPENSION



ANTI-ROLL BARS	
#362470	1.0mm (OPTION)
#362471	1.1mm (OPTION)
#362472	1.2mm (STANDARD)
#362473	1.3mm (OPTION)
#362474	1.4mm (OPTION)
#362476	1.6mm (OPTION)
#362478	1.8mm (OPTION)

TIP OPTIONAL

For better stability and to make the car easier to drive, optional #362190 and #363190 graphite stiffeners may be used. Using only 4 screws, the graphite stiffener can be installed or removed which would completely change the characteristics of the car. Stiffeners may be used independently at front and/or rear.

IMPORTANT! Install / remove stiffeners equally on left & right sides.



#362190
GRAPHITE FRONT LOWER ARM PLATE 1.6MM (2) (OPTION)



BAG

03

30 3431-K ALU 4.9MM BALL END - BLACK (2)
30 3454 BALL JOINT 4.9MM - OPEN (4)
30 6219 COMPOSITE SET OF SERVO SHIMS (4)
36 1200 COMPOSITE BUMPER - V2
36 2000 DIFF BULKHEAD BLOCK SET FRONT - V2
36 2111 COMPOSITE SUSPENSION ARM FRONT LOWER
36 2310 ALU FRONT LOWER SUSP. HOLDER - FRONT - 7075 T6 (5MM)
36 2315 ECCENTRIC BUSHING SET (2)
36 2320 ALU FRONT LOWER SUSP. HOLDER - REAR - 7075 T6 (5MM)
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

36 2473 ANTI-ROLL BAR 1.3 MM (OPTION)
36 2474 ANTI-ROLL BAR 1.4 MM (OPTION)
36 2476 ANTI-ROLL BAR 1.6 MM (OPTION)
36 2478 ANTI-ROLL BAR 1.8 MM (OPTION)
36 7210 SUSPENSION PIVOT PIN (2)

90 1303 HEX SCREW SB M3x3 (10)
90 1304 HEX SCREW SB M3x4 (10)
90 1308 HEX SCREW SB M3x8 (10)
90 2308 HEX SCREW SH M3x8 (10)
90 3312 HEX SCREW SFH M3x12 (10))

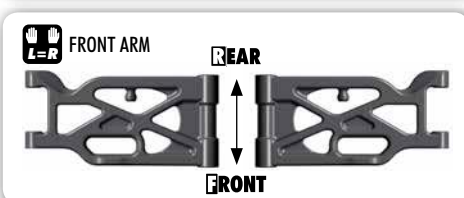
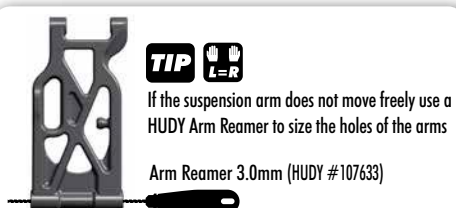
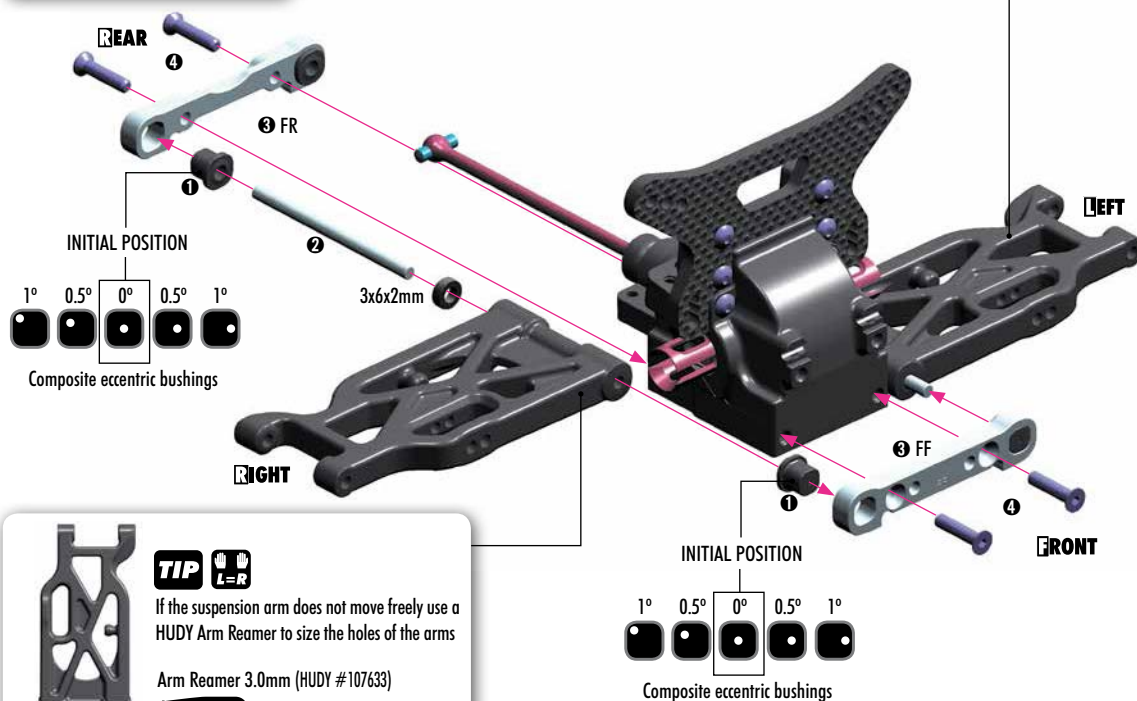
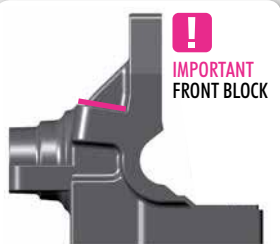
FRONT SUSPENSION

IO

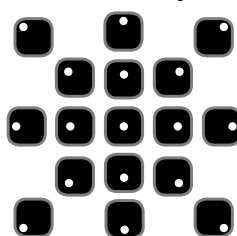
306219
SHIM 3x6x2



903312
SFH M3x12



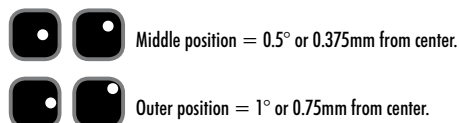
All possible mounting alternatives of eccentric bushings



SET-UP BOOK

KICK UP
ROLL CENTER
TRACK WIDTH

ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE CENTER.



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

KICK-UP	
FF	FR (°)
	9°
	8°
	10°
	8°
	7°
	9°
	10°
	9°
	11°

ROLL-CENTER	
FF	FR (mm)
	+0.75mm
	0mm
	-0.75mm

TRACK WIDTH	
FF	FR (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.

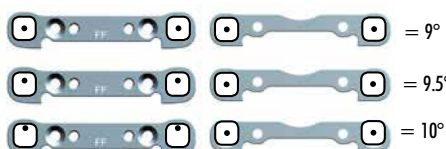
The middle position eccentric bushings allow for finer adjustment increments.

Example:

$$0(\text{FF}) - 0(\text{FR}) = 9^\circ$$

$$0.5(\text{FF}) - 0(\text{FR}) = 9.5^\circ$$

$$1(\text{FF}) - 0(\text{FR}) = 10^\circ$$



TOTAL CASTER = C-HUB CASTER + KICK UP

C-HUB CASTER	KICK-UP				
	7°	8°	9°	10°	11°
6°	13°	14°	15°	16°	17°
9°	16°	17°	18°	19°	20°

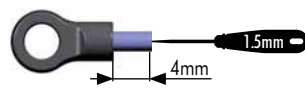
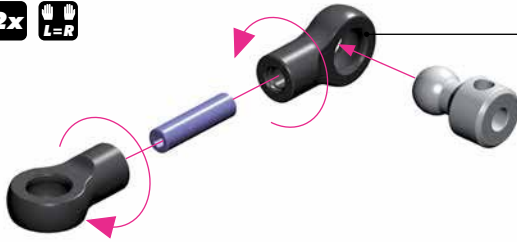
Caster is the angle between the steering pivot axis and the vertical plane. Caster is affected not only by the C-Hub caster, but also by the front kick-up angle relative to the flat chassis bottom. The table indicates how kick up angle effects total caster.

The XB4's stock caster blocks are 9°, but 6° blocks are available as an option.

FRONT SUSPENSION

901308
SB M3x8

2x
L=R



ASSEMBLY VIEW



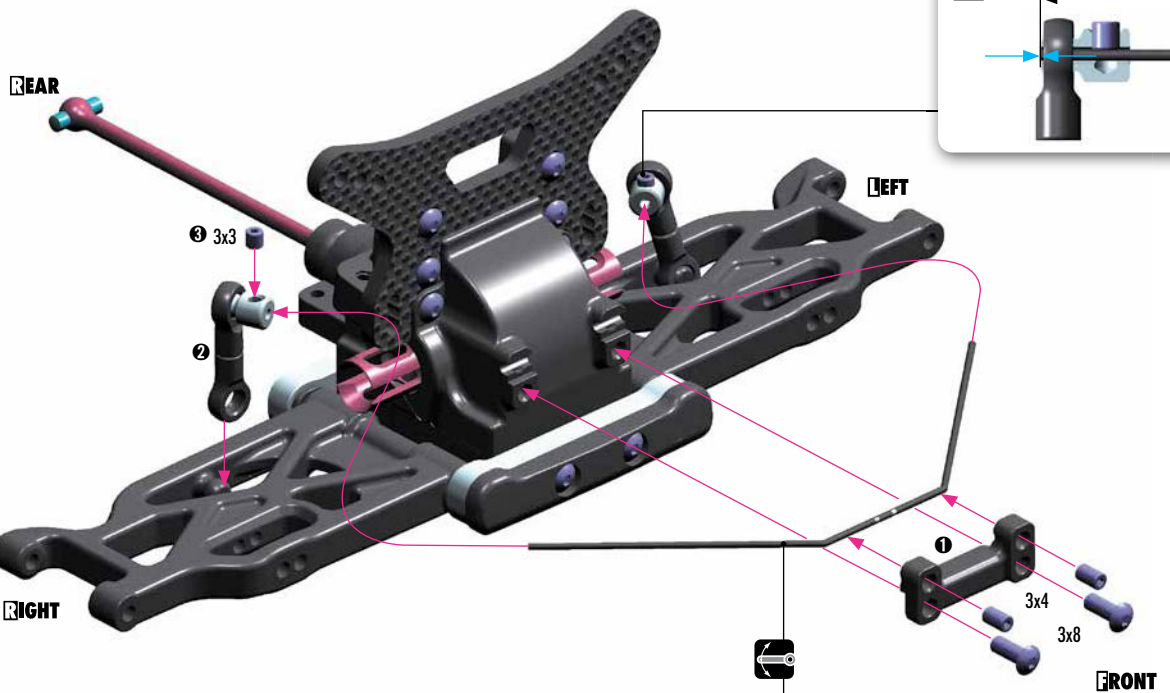
902308
SH M3x8



901303
SB M3x3

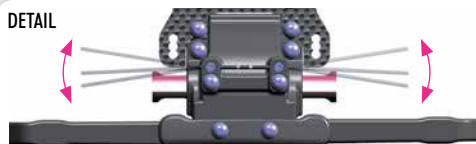
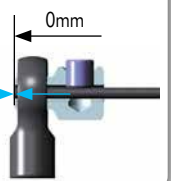
901304
SB M3x4

902308
SH M3x8



STEP 3 DETAIL

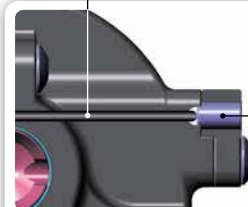
L=R



DETAIL



Step 1 check for free movement



DETAIL

Step 1
Loosen the 3x4 setscrew if
the anti-roll bar does not
turn freely

SET-UP
BOOK

ANTI-ROLL BAR

4. REAR TRANSMISSION

DRIVE SHAFT COLLAR

#365470	COMPOSITE (STANDARD)
#365471-K	ALU - BLACK (OPTION)
#365471-O	ALU - ORANGE (OPTION)

REAR UPRIGHTS

#363350	COMPOSITE (STANDARD)
#363351	ALU (OPTION)

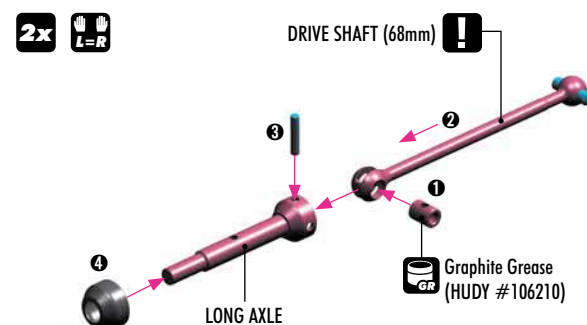


BAG

04

- 30 2665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
- 36 2610 ADJ. TURNBUCKLE M3 L/R 50 MM - SPRING STEEL (2)
- 36 2650 BALL END 4.9MM WITH THREAD 6MM (2)
- 36 2651 BALL END 4.9MM WITH THREAD 8MM (2)
- 36 3111 REAR SUSPENSION ARM - RIGHT
- 36 3121 REAR SUSPENSION ARM - LEFT
- 36 3350 COMPOSITE UPRIGHT REAR - V2
- 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 5350 ALU WHEEL HUB 14MM (2)

- 36 5351 ALU WHEEL HUB 14MM - OFFSET "-0.75MM" (2) (OPTION)
- 36 5352 ALU WHEEL HUB 14MM - OFFSET "+0.75MM" (2) (OPTION)
- 36 5470 COMPOSITE DRIVE SHAFT SAFETY COLLAR (3)
- 36 7320 REAR ARM PIVOT PIN (2)
- 90 1306 HEX SCREW SB M3x6 (10)
- 90 2205 HEX SCREW SH M2x5 (10)
- 90 2310 HEX SCREW SH M3x10 (10)
- 94 0510 HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2)
- 94 0512 HIGH-SPEED BALL-BEARING 5x12x4 RUBBER SEALED (2)
- 96 0030 NUT M3 (10)
- 98 0210 PIN 2x10 (10)



OPTIONAL HEX HUB EFFECTS

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

LESS OFF-SET

Rear - more traction
Front - more steering

MORE OFF-SET

Rear - less traction
Front - less steering

WHEEL HUBS 14MM

#365352	+0.75mm (OPTION)
#365350	0mm (STANDARD)
#365351	-0.75mm (OPTION)

WHEEL HUBS 12MM

#365357	+2.25mm (OPTION)
#365356	+1.5mm (OPTION)
#365355	+0.75mm (OPTION)
#365353	0mm (OPTION)
#365354	-0.75mm (OPTION)



901306
SB M3x6

10
From Rear Arm
SHIM 3x6.5x2

IMPORTANT!

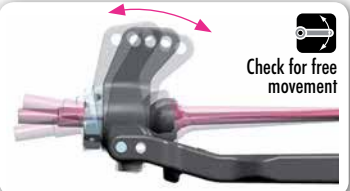


When using **OUTSIDE** position on the hub, use only outside position on the arm.

The outside hole offers great stability and is recommended for bumpy open tracks.

When using **INSIDE** position on the hub, use only inside position on the arm.

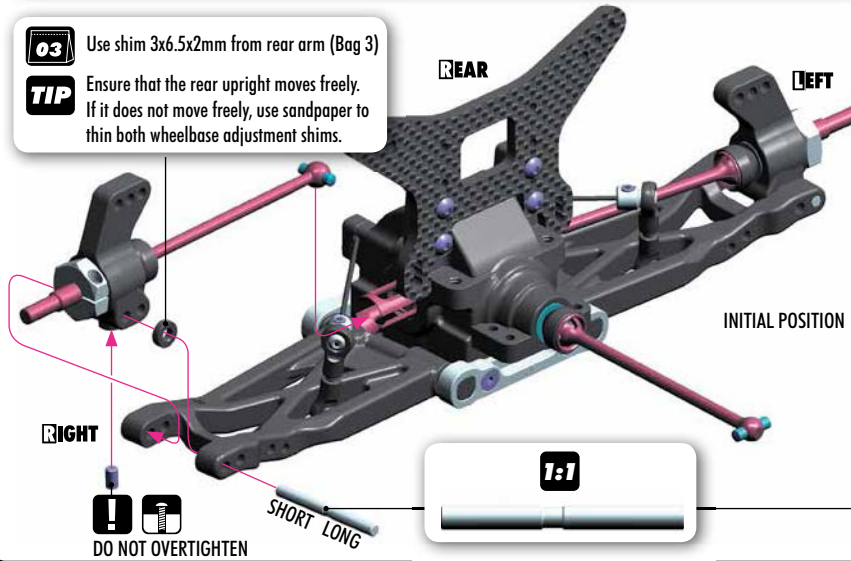
Inside hole offers great amount of steering and is recommended for flat, technical tracks.



Check for free movement

03 Use shim 3x6.5x2mm from rear arm (Bag 3)

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

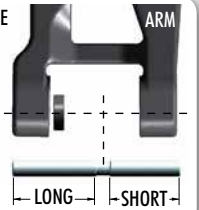


SHORTER WHEELBASE

TOP VIEW

Alternative Shim
BEHIND HUB

NOTE
ORIENTATION

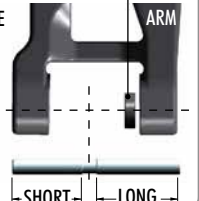


LONGER WHEELBASE

TOP VIEW

Alternative Shim
IN FRONT OF HUB

NOTE
ORIENTATION



SET-UP BOOK
WHEELBASE

2x **L=R**

6mm thread

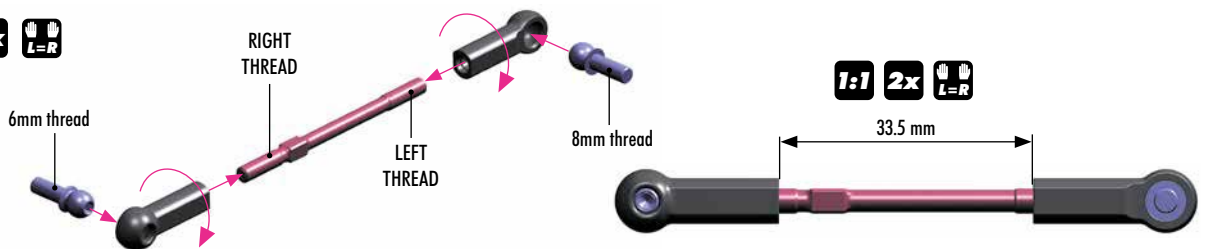
RIGHT
THREAD

LEFT
THREAD

8mm thread

1:1 **2x** **L=R**

33.5 mm



SET-UP BOOK
CAMBER

960030
N M3

2x **L=R**

NOTE
ORIENTATION

6mm
THREAD

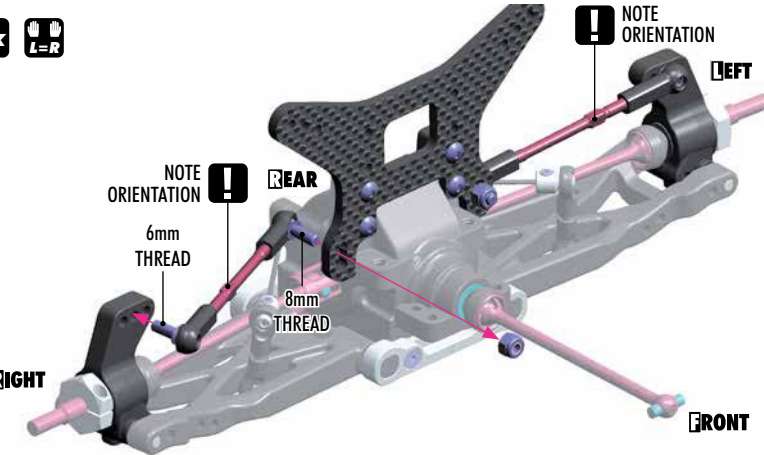
8mm
THREAD

NOTE
ORIENTATION

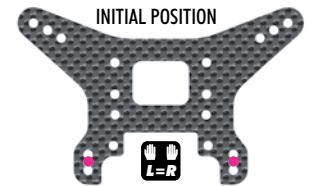
LEFT

RIGHT

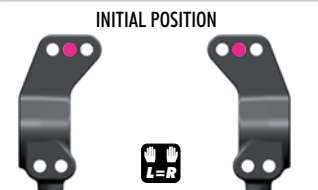
FRONT



INITIAL POSITION



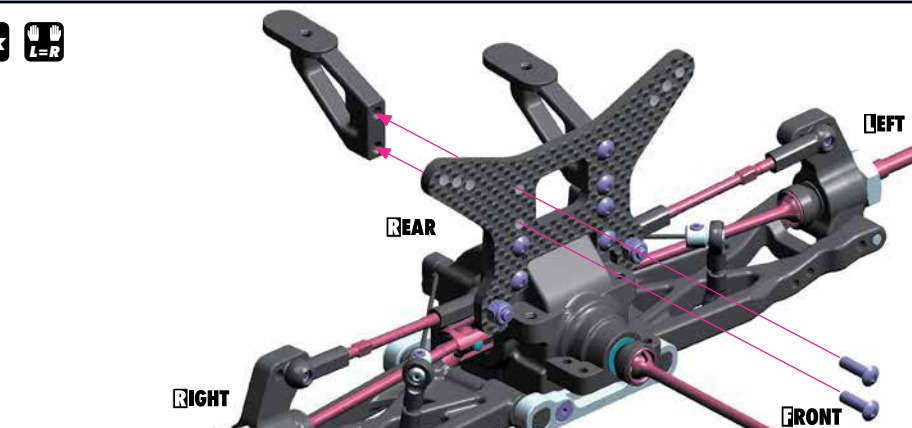
INITIAL POSITION



SET-UP BOOK
ROLL CENTER

902310
SH M3x10

2x **L=R**



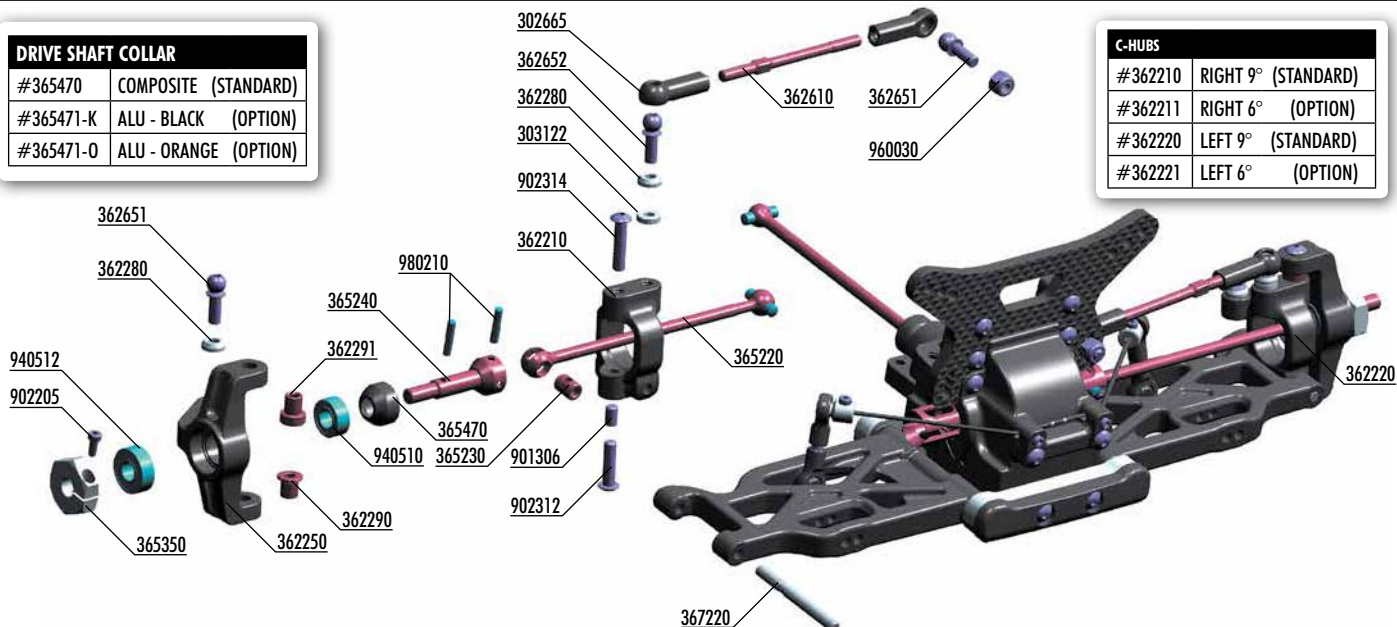
4. FRONT TRANSMISSION

DRIVE SHAFT COLLAR

#365470	COMPOSITE (STANDARD)
#365471-K	ALU - BLACK (OPTION)
#365471-O	ALU - ORANGE (OPTION)

C-HUBS

#362210	RIGHT 9° (STANDARD)
#362211	RIGHT 6° (OPTION)
#362220	LEFT 9° (STANDARD)
#362221	LEFT 6° (OPTION)



BAG

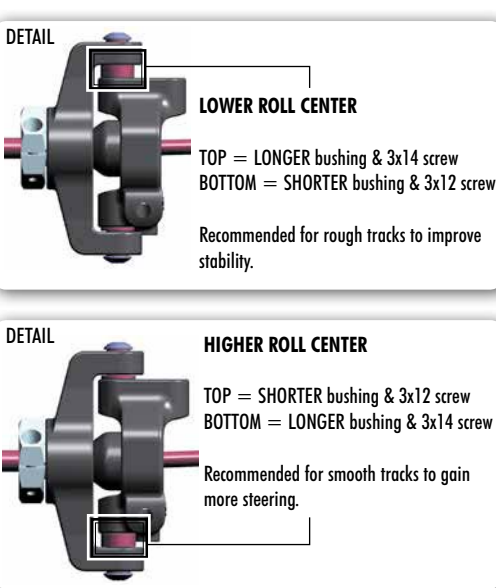
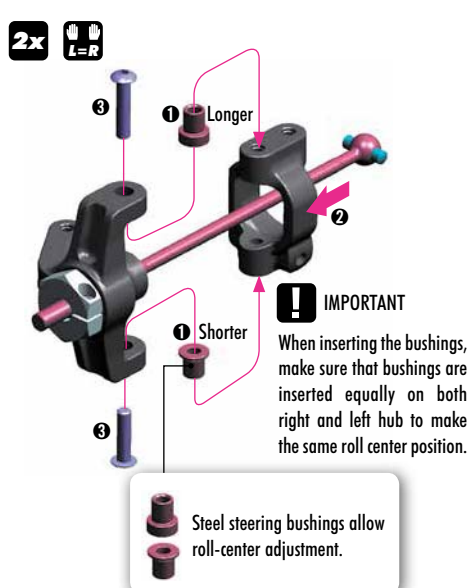
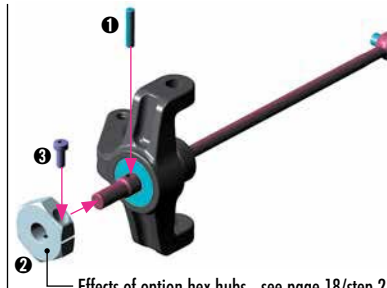
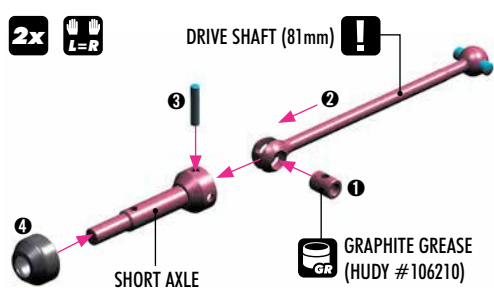
04

- 30 2665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
- 30 3122 ALU SHIM 3x6x1.0MM (10)
- 36 2210 COMPOSITE C-HUB 9° DEG. RIGHT
- 36 2211 COMPOSITE C-HUB 6° DEG. RIGHT (OPTION)
- 36 2220 COMPOSITE C-HUB 9° DEG. LEFT
- 36 2221 COMPOSITE C-HUB 6° DEG. LEFT (OPTION)
- 36 2250 COMPOSITE STEERING BLOCK
- 36 2280 ALU CONICAL SHIM 3x6x2.0MM (10)
- 36 2290 STEEL STEERING BUSHING - SHORT (2)
- 36 2291 STEEL STEERING BUSHING - LONG (2)
- 36 2610 ADJ. TURNBUCKLE M3 L/R 50 MM - SPRING STEEL (2)
- 36 2651 BALL END 4.9MM WITH THREAD 8MM (2)
- 36 2652 BALL END 4.9MM WITH THREAD 10MM (2)
- 36 5220 FRONT DRIVE SHAFT 81MM - HUDY SPRING STEEL™
- 36 5230 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™

- 36 5240 FRONT DRIVE AXLE - HUDY SPRING STEEL™
- 36 5350 ALU WHEEL HUB 14MM (2)
- 36 5351 ALU WHEEL HUB 14MM - OFFSET "-0.75MM" (2) (OPTION)
- 36 5352 ALU WHEEL HUB 14MM - OFFSET "+0.75MM" (2) (OPTION)
- 36 5470 COMPOSITE DRIVE SHAFT SAFETY COLLAR (3)
- 36 7220 FRONT ARM PIVOT PIN (2)
- 90 1306 HEX SCREW SB M3x6 (10)
- 90 2205 HEX SCREW SH M2x5 (10)
- 90 2312 HEX SCREW SH M3x12 (10)
- 90 2314 HEX SCREW SH M3x14 (10)
- 94 0510 HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2)
- 94 0512 HIGH-SPEED BALL-BEARING 5x12x4 RUBBER SEALED (2)
- 96 0030 NUT M3 (10)
- 98 0210 PIN 2x10 (10)



SET-UP BOOK
CASTER
ROLL-CENTER

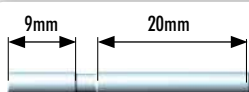


901306
SB M3x6

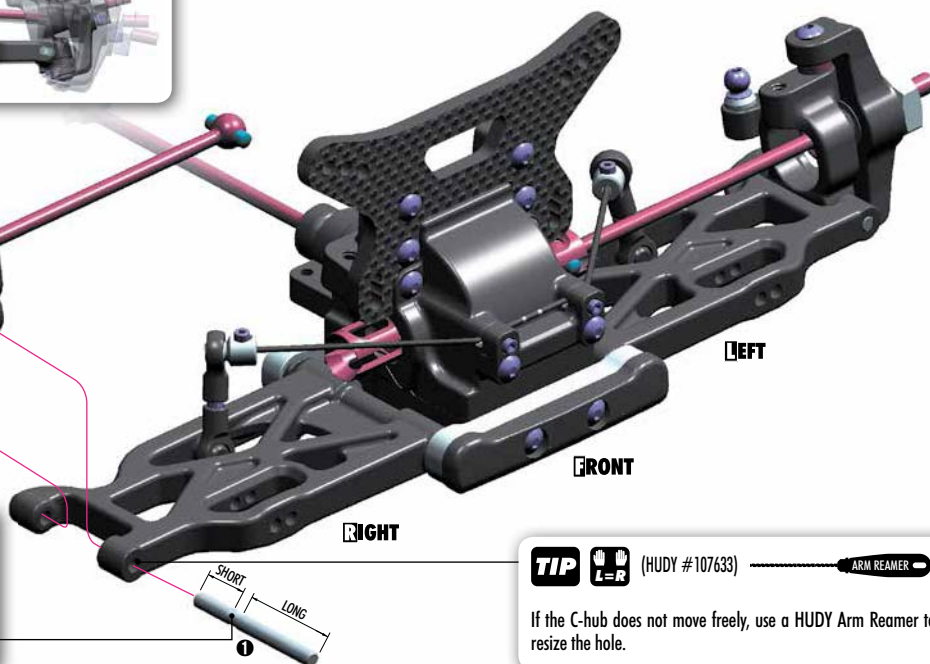
2x L=R



DO NOT OVERTIGHTEN



NOTE ORIENTATION



2x L=R

10mm
THREAD

RIGHT
THREAD

LEFT
THREAD

8mm
THREAD

2x L=R

34 mm



SET-UP
BOOK

CAMBER

303122
SHIM 3x6x1

362280
CON. SHIM 3x6x2

960030
N M3

2x L=R

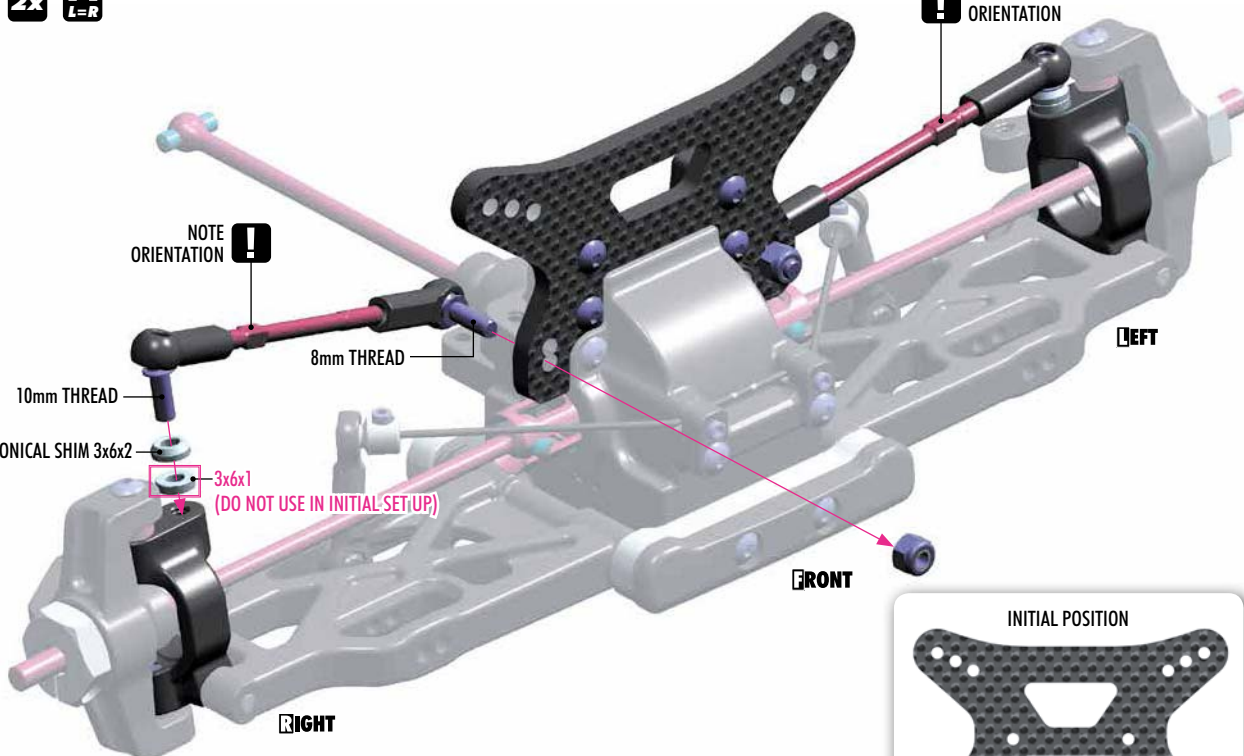
NOTE ORIENTATION

NOTE ORIENTATION

10mm THREAD
CONICAL SHIM 3x6x2

8mm THREAD

3x6x1
(DO NOT USE IN INITIAL SET-UP)

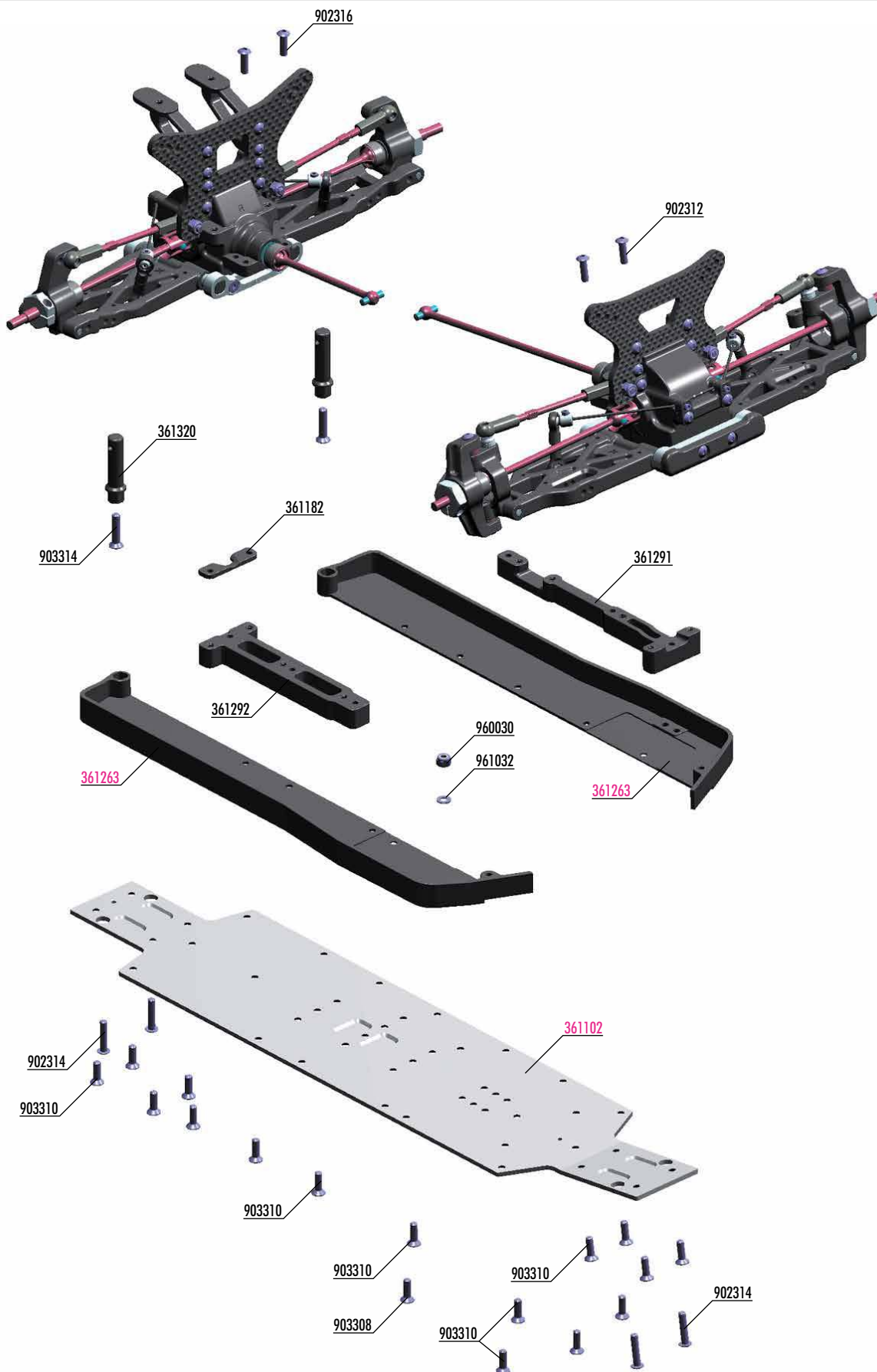


INITIAL POSITION

SET-UP
BOOK

ROLL CENTER

4. FRONT & REAR ASSEMBLY



BAG

04

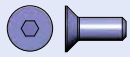
36 1182 COMPOSITE REAR LOWER BRACE
36 1291 COMPOSITE CHASSIS BRACE FRONT
36 1292 COMPOSITE CHASSIS BRACE REAR
36 1320 BODY MOUNT, BATTERY MOUNT - V2 & WING SHIM (2)

90 2312 HEX SCREW SH M3x12 (10)
90 2314 HEX SCREW SH M3x14 (10)
90 2316 HEX SCREW SH M3x16 (10)

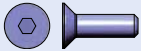
90 3308 HEX SCREW SFH M3x8 (10)
90 3310 HEX SCREW SFH M3x10 (10)
90 3314 HEX SCREW SFH M3x14 (10)
96 0030 NUT M3 (10)
96 1032 WASHER S 3.2 (10)

36 1102 ALU CHASSIS - SWISS 7075 T6 (2MM)
36 1263 COMPOSITE CHASSIS SIDE GUARDS L+R

FRONT & REAR ASSEMBLY



903308
SFH M3x8



903310
SFH M3x10



903314
SFH M3x14



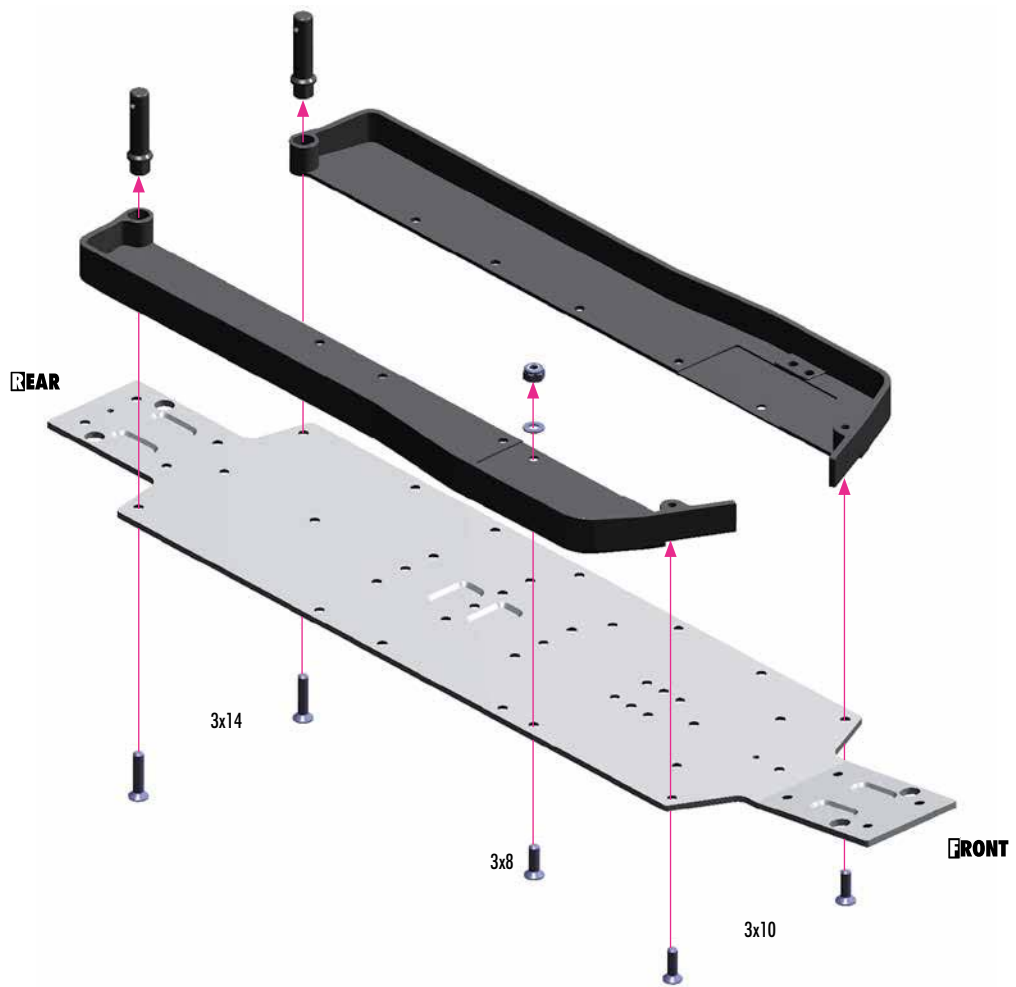
960030
N M3



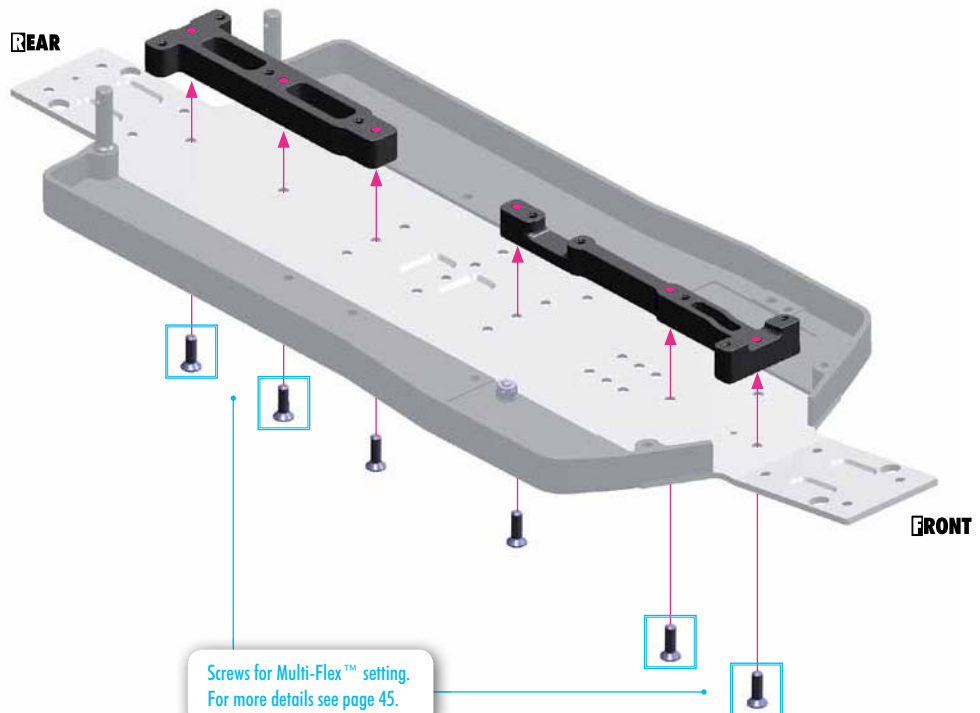
961032
S3.2

**SET-UP
BOOK**

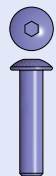
CHASSIS FLEX SETTING



903310
SFH M3x10



4. FRONT & REAR ASSEMBLY



902314
SH M3x14



902316
SH M3x16



903310
SFH M3x10

OPTIONAL

To raise the rear differential and rear suspension use these two optional parts together.

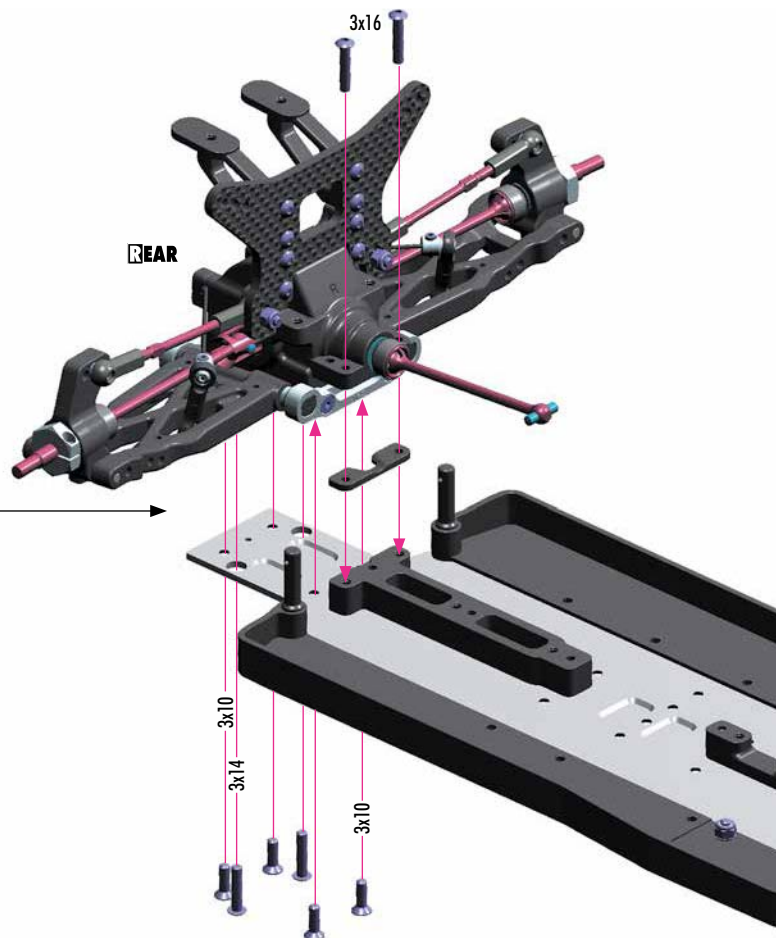
#361262

Composite Rear Chassis Plate



#361181

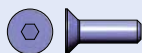
Graphite Rear Lower Brace 2.0mm



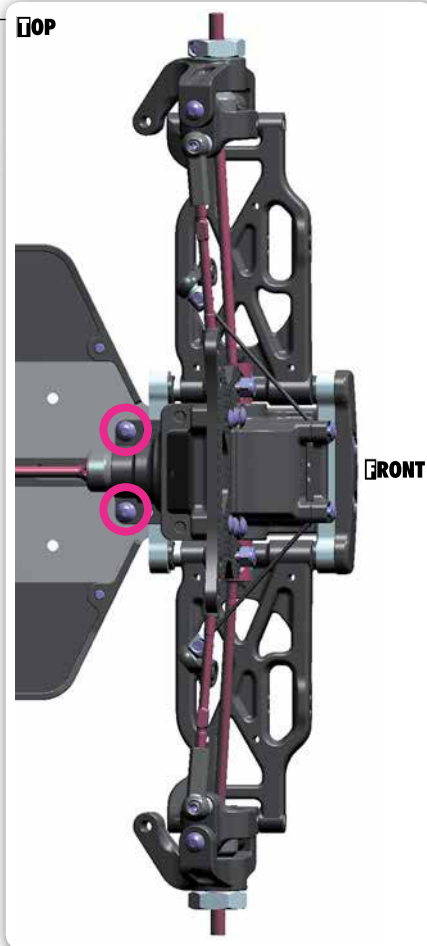
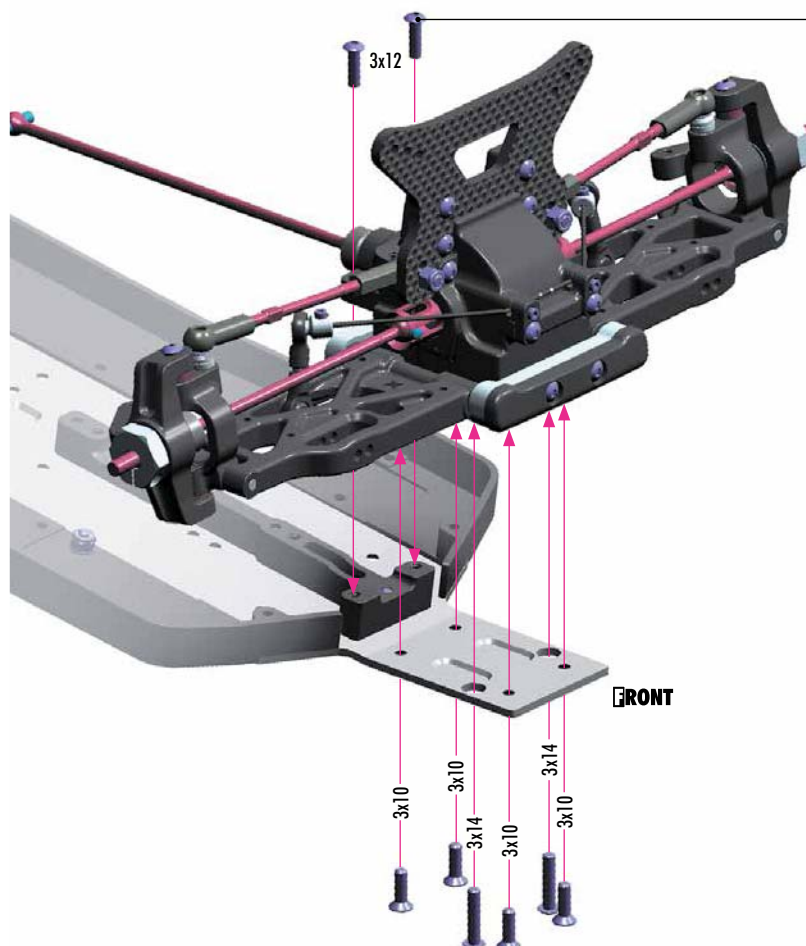
902312
SH M3x12



902314
SH M3x14

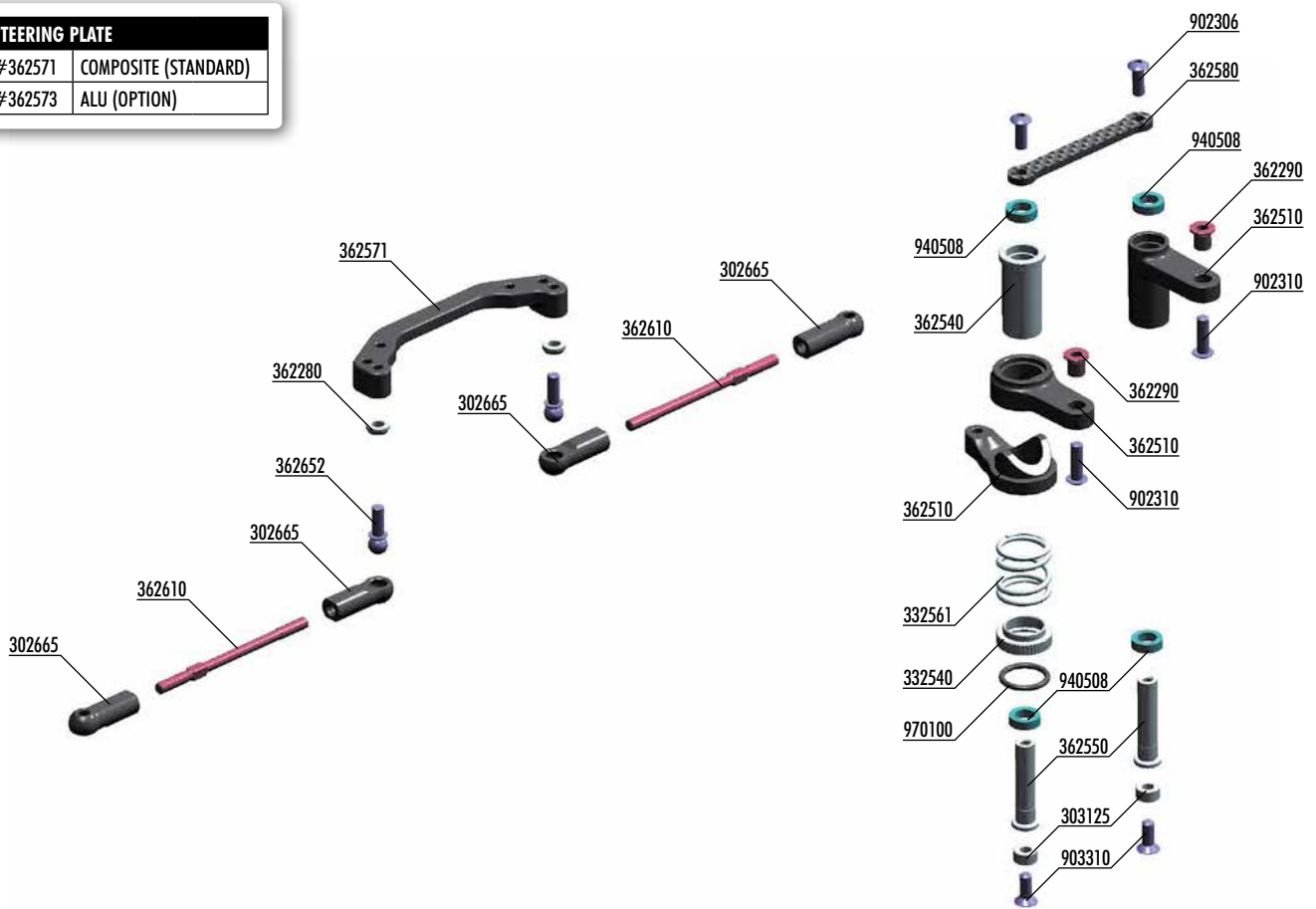


903310
SFH M3x10

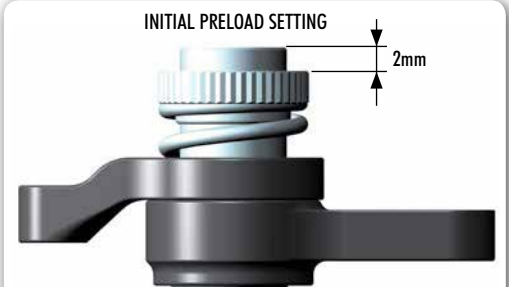
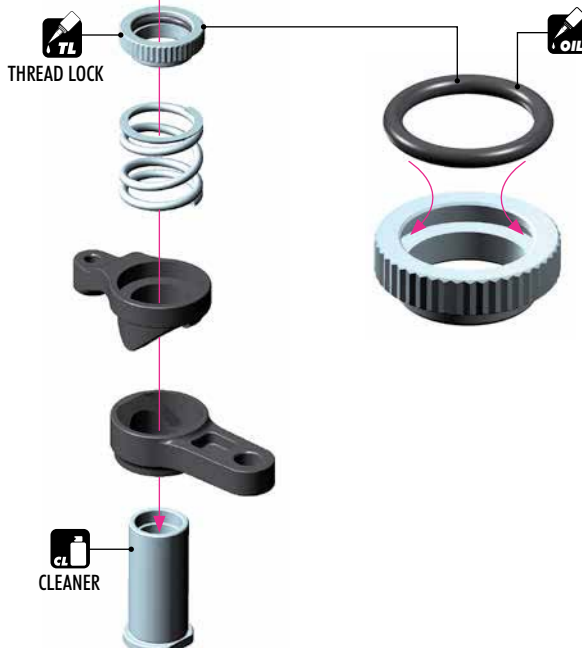


STEERING PLATE

#362571	COMPOSITE (STANDARD)
#362573	ALU (OPTION)

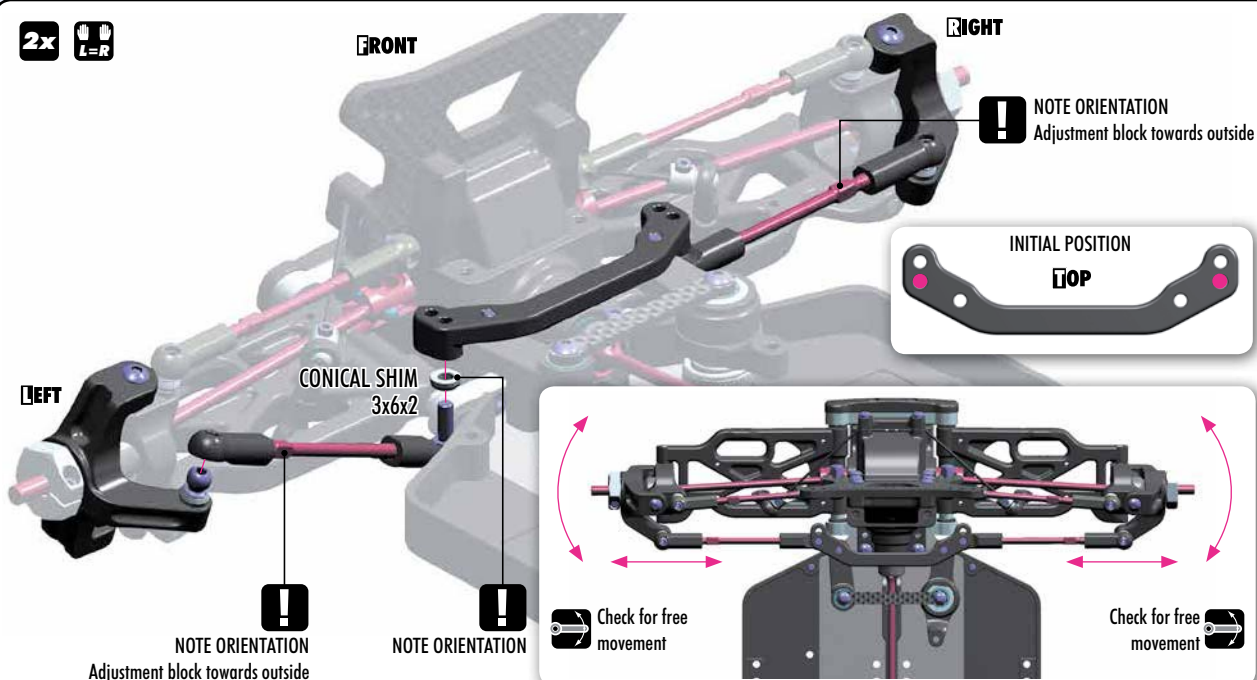
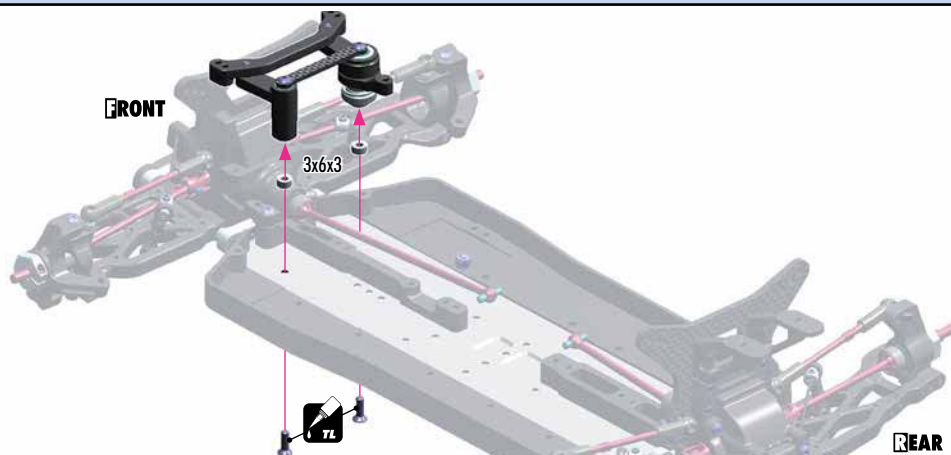
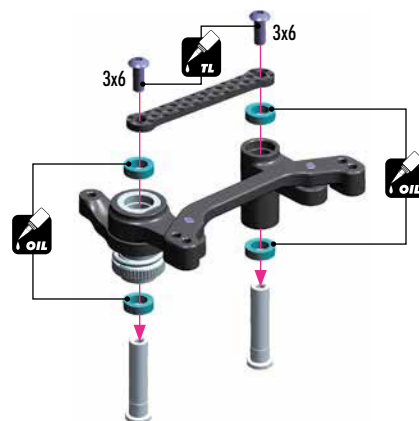
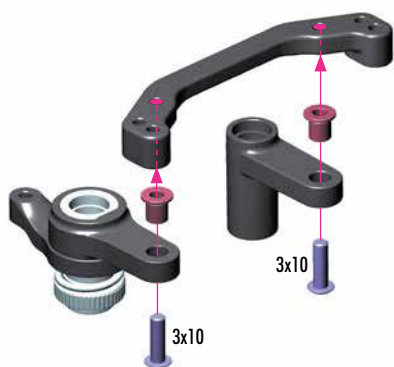
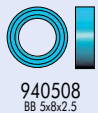
**BAG**

30 2665	COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)	36 2580	STEERING BRACE 2.0MM GRAPHITE
30 3125	ALU SHIM 3x6x3.0MM (10)	36 2610	ADJ. TURNBUCKLE M3 L/R 50 MM - SPRING STEEL (2)
33 2540	ALU SERVO SAVER ADJUSTABLE NUT	36 2652	BALL END 4.9MM WITH THREAD 10MM (2)
33 2561	SERVO SAVER SPRING C=14		
36 2280	ALU CONICAL SHIM 3x6x2.0MM (10)	90 2306	HEX SCREW SH M3x6 (10)
36 2290	STEEL STEERING BUSHING - SHORT (2)	90 2310	HEX SCREW SH M3x10 (10)
36 2510	COMPOSITE SERVO SAVER	90 3310	HEX SCREW SFH M3x10 (10)
36 2540	ALU SERVO SAVER MAIN SHAFT	94 0508	HIGH-SPEED BALL-BEARING 5x8x2.5 RUBBER SEALED (2)
36 2550	SERVO SAVER PIVOT SHAFT (2)	97 0100	O-RING 10 x 1.5 (10)
36 2571	COMPOSITE STEERING PLATE		

**SET-UP BOOK**

SERVO SAVER

STEERING



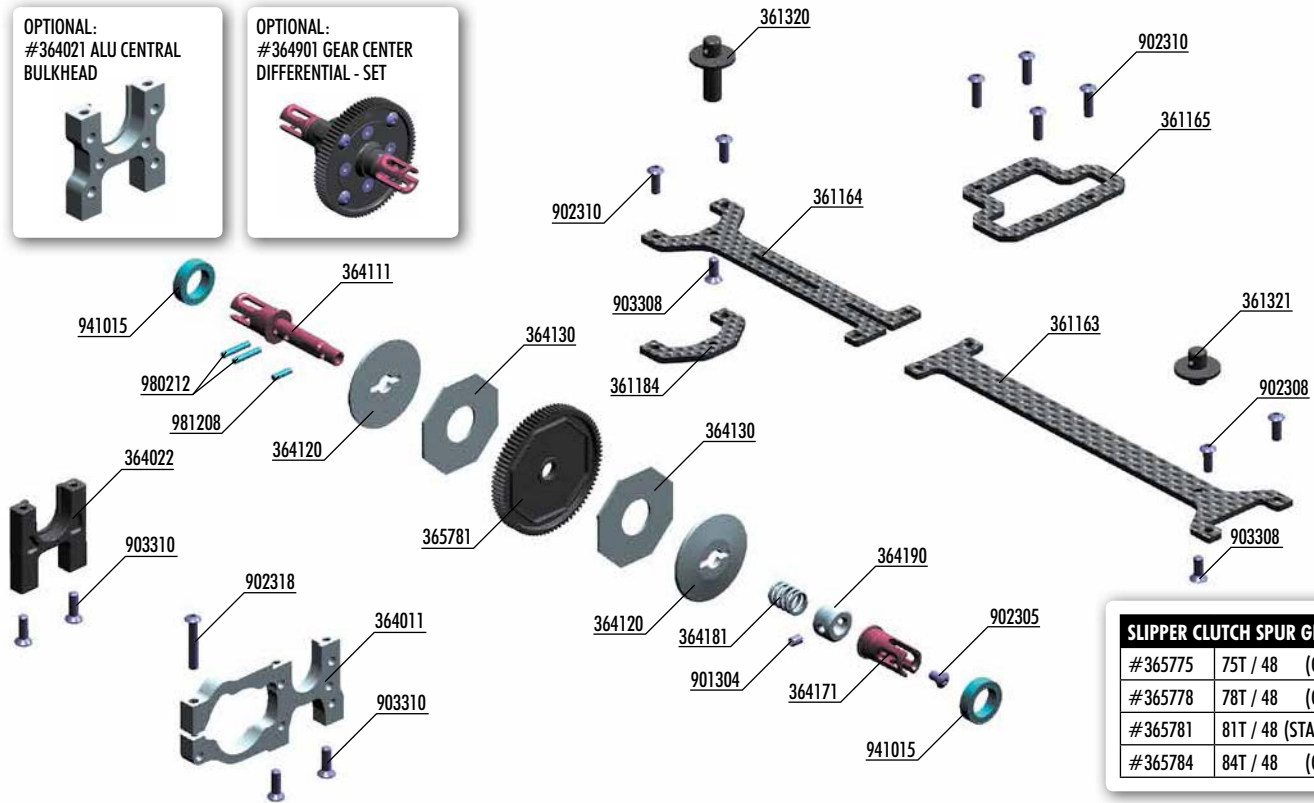
SET-UP BOOK
ACKERMANN
BUMP STEER
TOE-IN

6. SLIPPER CLUTCH ASSEMBLY

OPTIONAL:
#364021 ALU CENTRAL
BULKHEAD



OPTIONAL:
#364901 GEAR CENTER
DIFFERENTIAL - SET



SLIPPER CLUTCH SPUR GEARS

#365775	75T / 48	(OPTION)
#365778	78T / 48	(OPTION)
#365781	81T / 48	(STANDARD)
#365784	84T / 48	(OPTION)

BAG

06

36 1163 GRAPHITE FRONT UPPER DECK 2.0MM
36 1164 GRAPHITE REAR UPPER DECK 2.0MM
36 1165 GRAPHITE CENTER UPPER DECK 2.0MM
36 1184 GRAPHITE REAR UPPER BRACE 2.0MM
36 1320 BODY MOUNT, BATTERY MOUNT - V2 & WING SHIM (2)
36 1321 BODY MOUNT - SHORT + SHIMS - SET
36 4011 ALU MOTOR BULKHEAD
36 4022 COMPOSITE CENTRAL BULKHEAD
36 4111 SLIPPER CLUTCH SHAFT - HUDY SPRING STEEL™
36 4120 ALU SLIPPER CLUTCH PLATE - 7075 T6 BLACK HARD COATED
36 4130 SLIPPER CLUTCH PAD (2)
36 4171 SLIPPER CLUTCH OUTDRIVE ADAPTER - HUDY SPRING STEEL™
36 4181 SLIPPER CLUTCH SPRING C=45 - BLACK

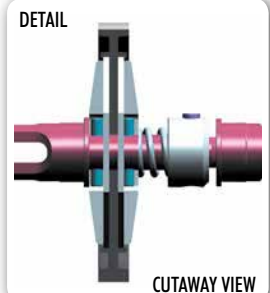
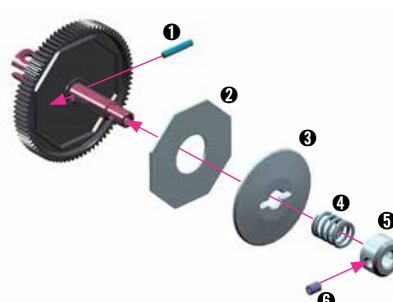
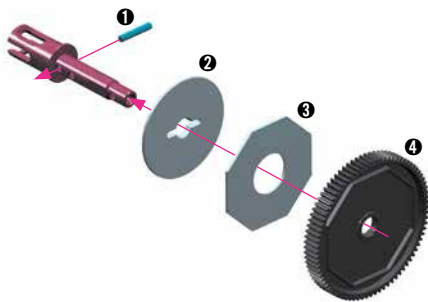
36 4190 ALU SLIPPER CLUTCH NUT
36 5781 COMPOSITE SLIPPER CLUTCH SPUR GEAR 81T / 48 - GRAPHITE
90 1304 HEX SCREW SB M3x4 (10)
90 2305 HEX SCREW SH M3x5 (10)
90 2308 HEX SCREW SH M3x8 (10)
90 2318 HEX SCREW SH M3x18 (10)
90 3308 HEX SCREW SFH M3x8 (10)
90 3310 HEX SCREW SFH M3x10 (10)
94 1015 HIGH-SPEED BALL-BEARING 10x15x4 RUBBER SEALED (2)
98 0212 PIN 2x11.6 (10)
98 1208 PIN 2x8 (10)



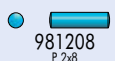
980212
P 2x11.6



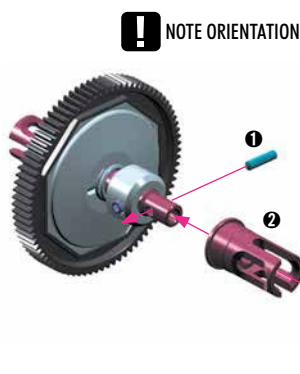
901304
SB M3x4



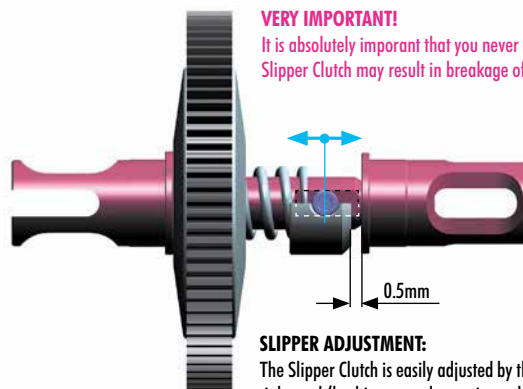
902305
SH M3x5



981208
P 2x8



NOTE ORIENTATION



VERY IMPORTANT!

It is absolutely important that you never fully tighten the Slipper Clutch. Overtightening the Slipper Clutch may result in breakage of the diff crown gear and pinion gear.

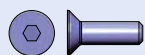
SLIPPER ADJUSTMENT:

The Slipper Clutch is easily adjusted by the set-screw in the bushing. The more the spring is tightened (bushing moved more inwards), the more the Slipper Clutch is tightened.

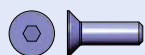
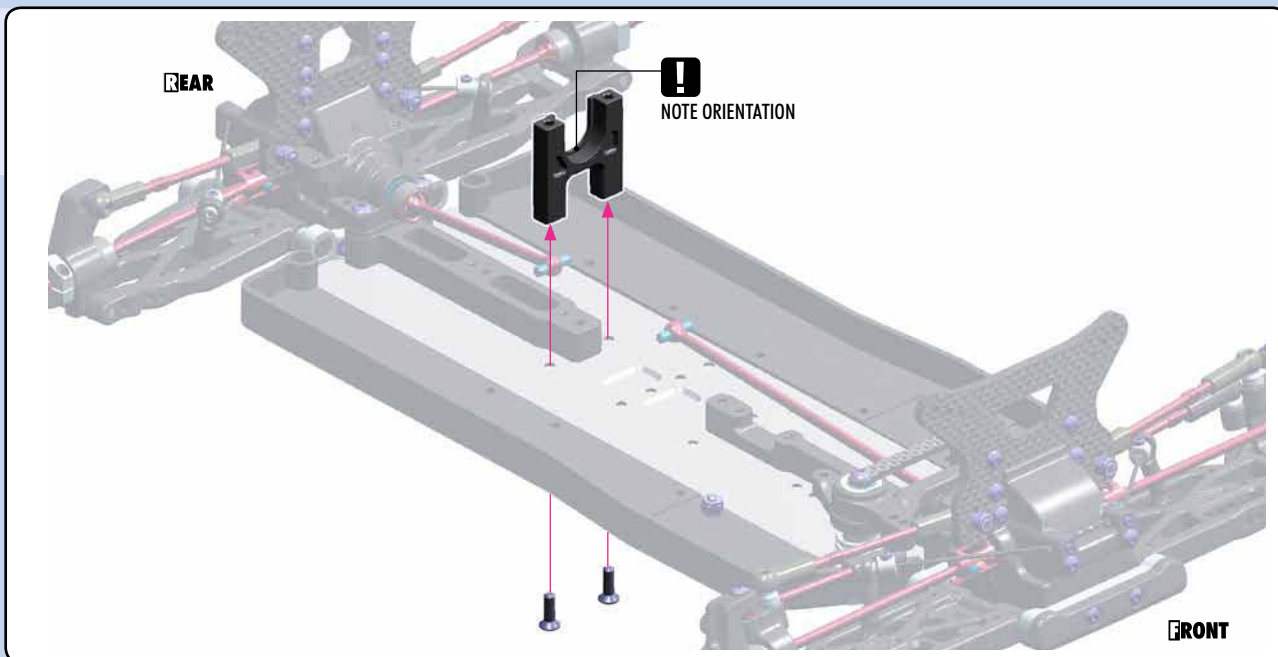
INITIAL INSTALLATION POSITION SHOWN

Detailed information on slipper adjustment can be found at the bottom of page 29.

SLIPPER CLUTCH ASSEMBLY



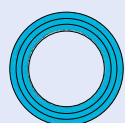
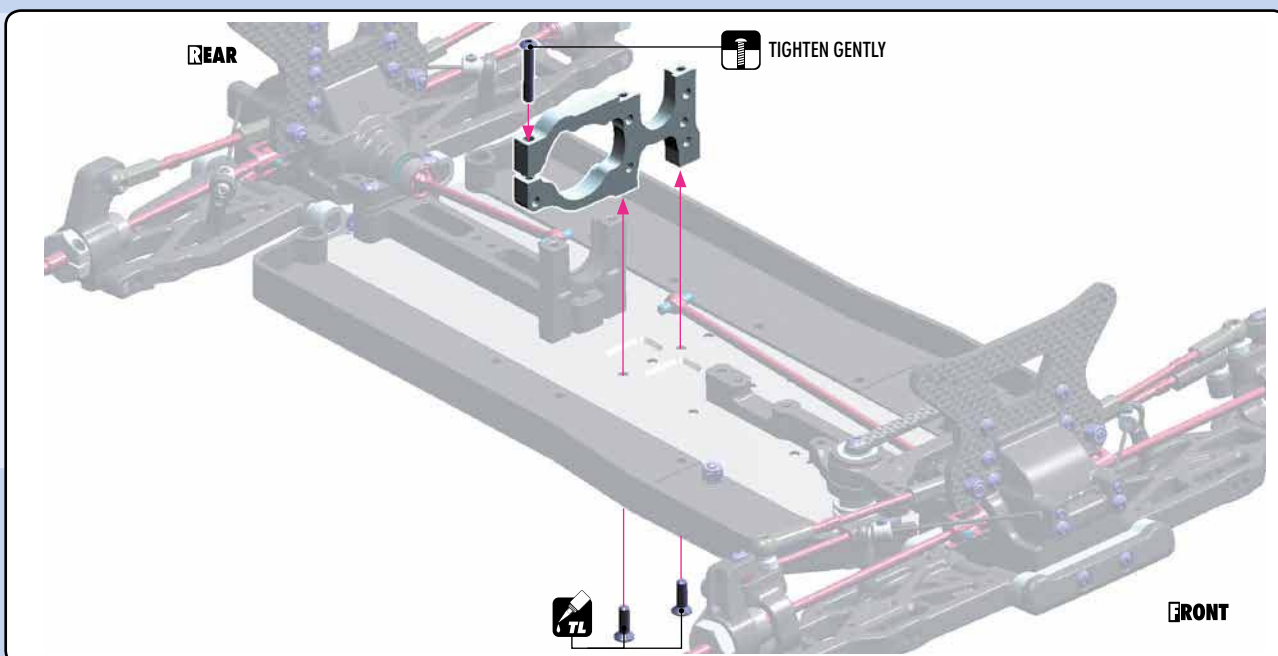
903310
SFH M3x10



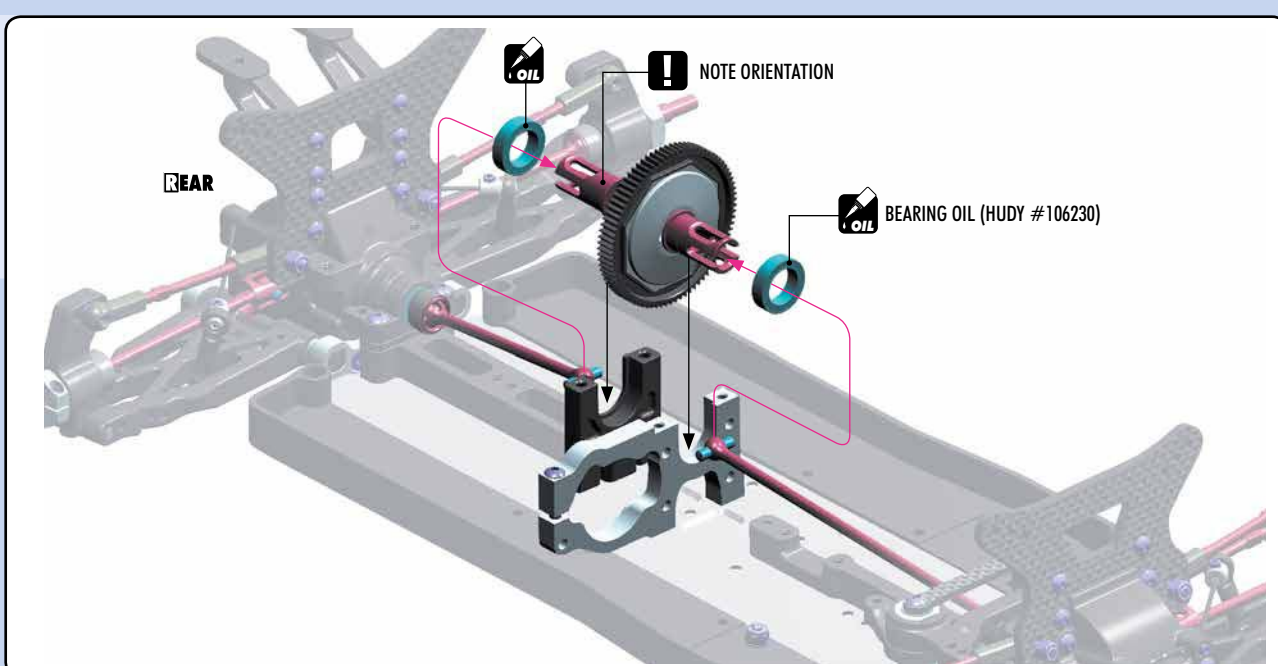
903310
SFH M3x10



902318
SH M3x18



941015
BB 10x15x4



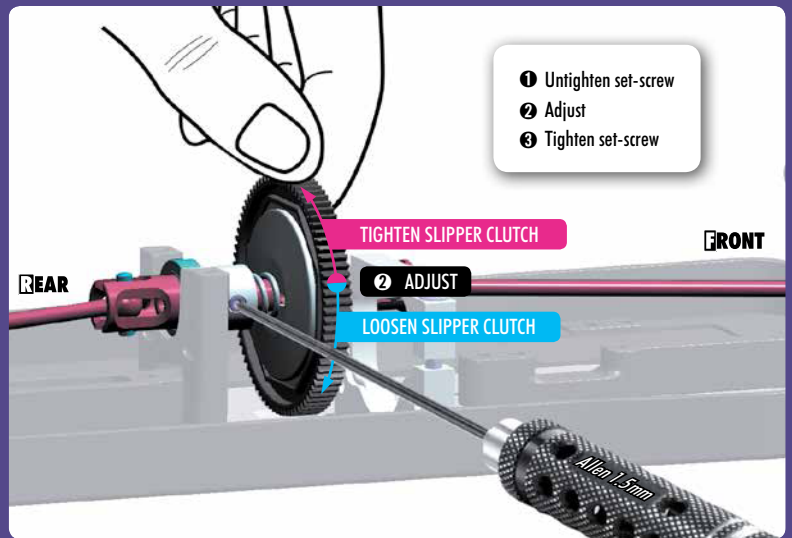
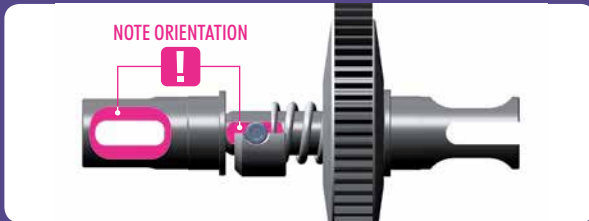
SLIPPER CLUTCH ADJUSTMENT

The Slipper Clutch can be adjusted by loosening the set-screw and then, while keeping the tool inside of the set-screw, rotating the spur gear by hand as indicated in the drawing.

To **TIGHTEN**: Rotate the spur gear in the counterclockwise (CCW) direction.
To **LOOSEN**: Rotate the spur gear in the clockwise (CW) direction.

IMPORTANT

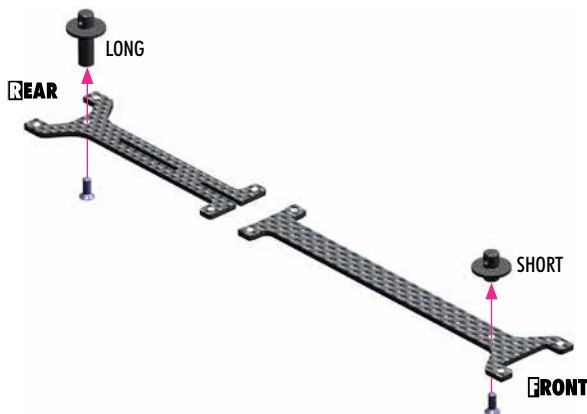
When tightening the set-screw again, ensure that the set screw sits only on the flat spot of the shaft.



903308
SFH M3x8

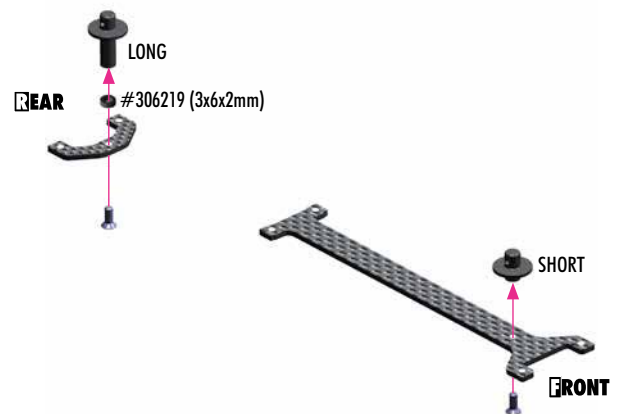
ALTERNATIVE 1

WITH REAR TOP DECK (INITIAL SETTING)

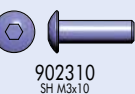


ALTERNATIVE 2

WITHOUT REAR TOP DECK



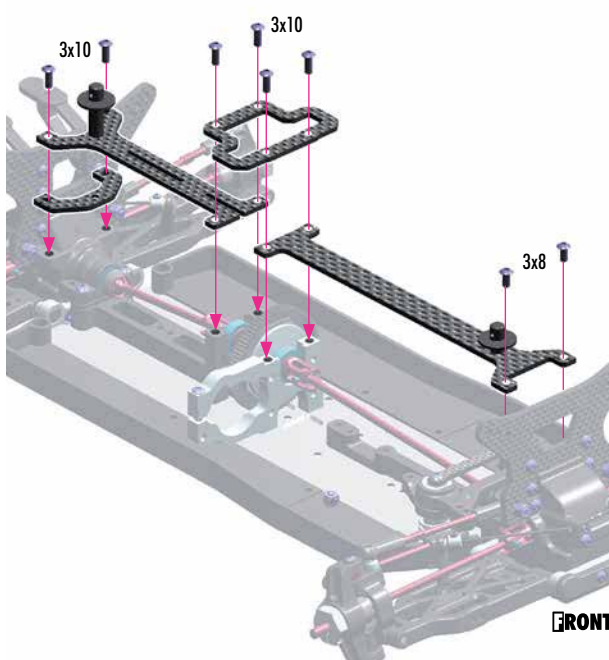
902308
SH M3x8



902310
SH M3x10

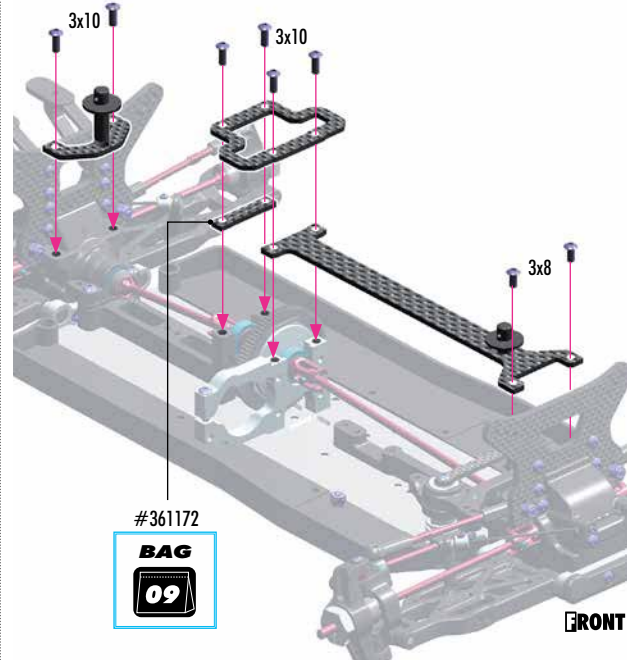
ALTERNATIVE 1

WITH REAR TOP DECK (INITIAL SETTING)

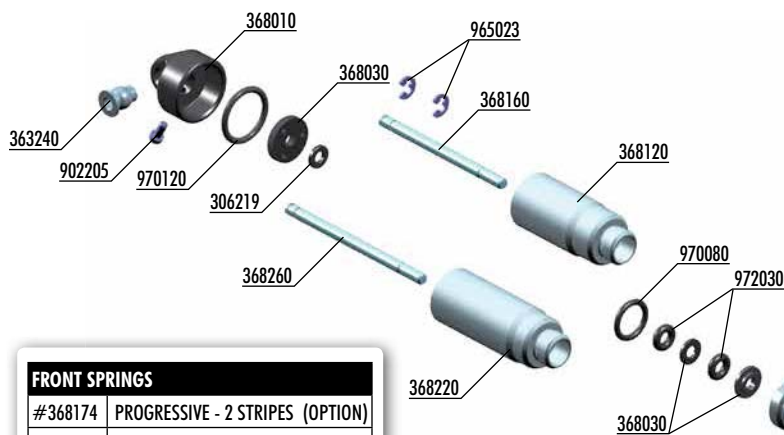


ALTERNATIVE 2

WITHOUT REAR TOP DECK



7. SHOCK ABSORBERS



FRONT SPRINGS

#368174	PROGRESSIVE - 2 STRIPES (OPTION)
#368184	LINEAR - 2 DOTS (OPTION)
#368185	LINEAR - 3 DOTS (STANDARD)

REAR SPRINGS

#368273	PROGRESSIVE - 2 STRIPES (OPTION)
#368284	LINEAR - 1 DOT (OPTION)
#368285	LINEAR - 2 DOTS (STANDARD)
#368286	LINEAR - 3 DOTS (OPTION)

OPTIONAL:

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

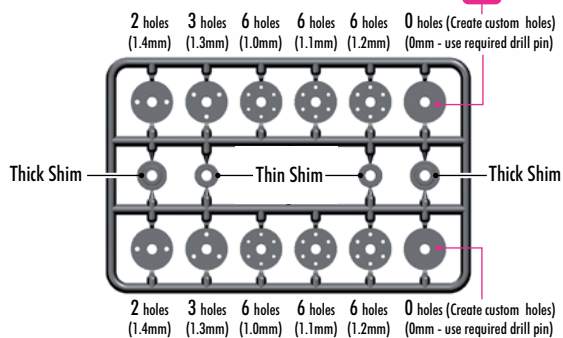


OPTIONAL:

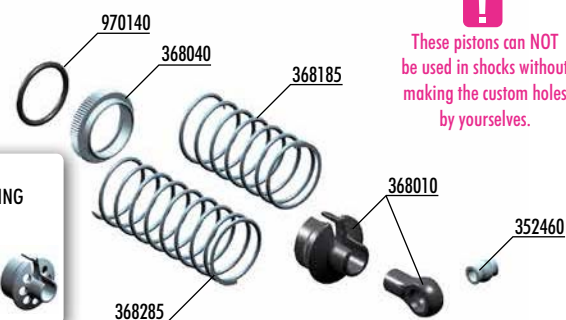
#368021 ALU SHOCK SPRING RETAINING COLLAR (4)



PISTONS DETAIL



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



BAG

07

- 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 8030 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 8184 FRONT SPRING-SET LINEAR - 2 DOTS (2) (OPTION)
- 36 8185 FRONT SPRING-SET LINEAR - 3 DOTS (2)

- 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) (OPTION)
- 36 8285 REAR SPRING-SET LINEAR - 2 DOTS (2)
- 36 8286 REAR SPRING-SET LINEAR - 3 DOTS (2) (OPTION)

- 90 2205 HEX SCREW SH M2x5 (10)
- 96 5023 E-CLIP 2.3 (10)
- 97 0080 O-RING 8x1 (10)
- 97 0140 O-RING 14 x 1.5 (10)
- 97 2030 SILICONE O-RING 3x2 (10)



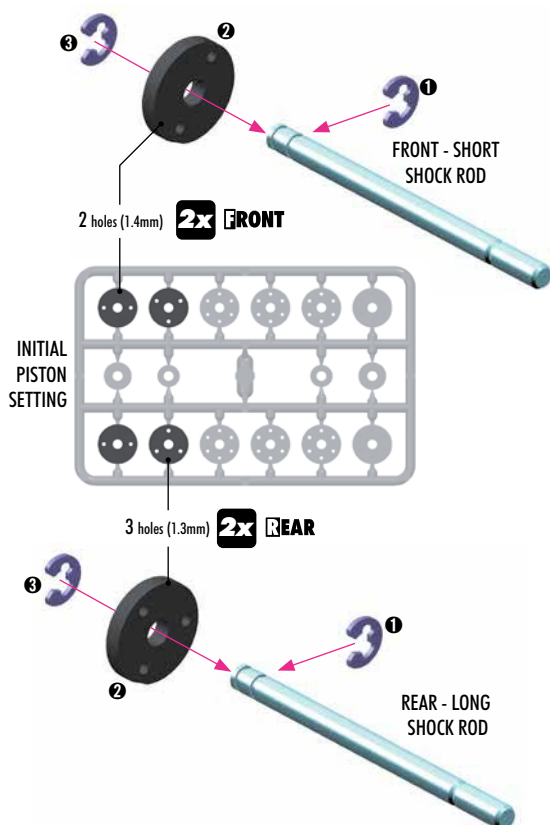
965023
C 2.3



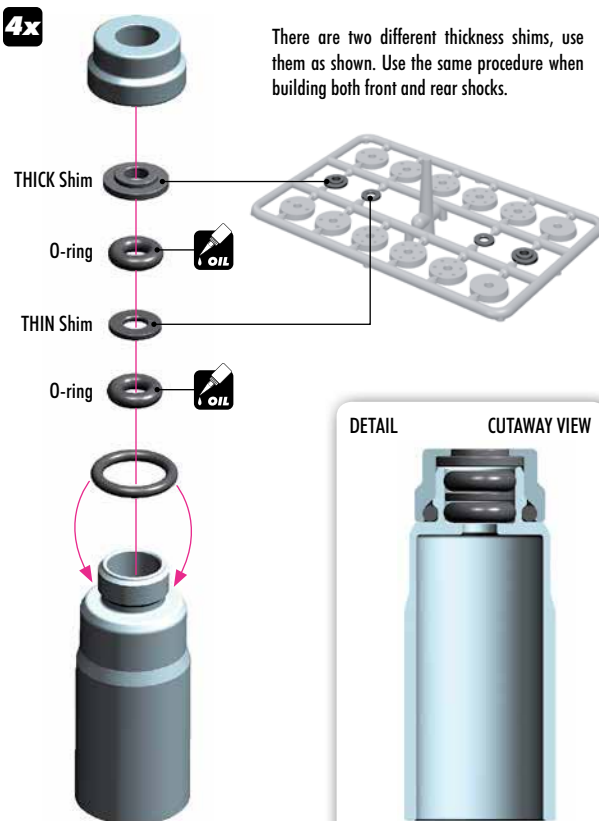
972030
O 3x2



970080
O 8x1



4x



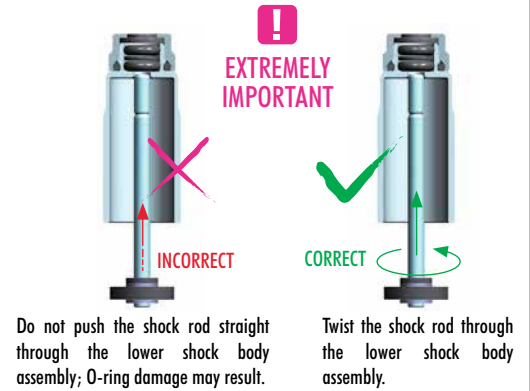
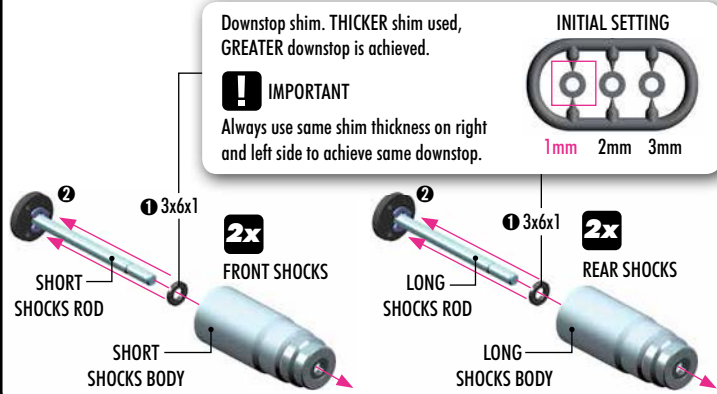
DETAIL CUTAWAY VIEW



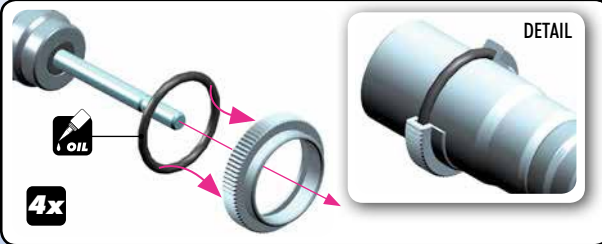
SET-UP BOOK

SHOCK DAMPING
SHOCK PISTONS

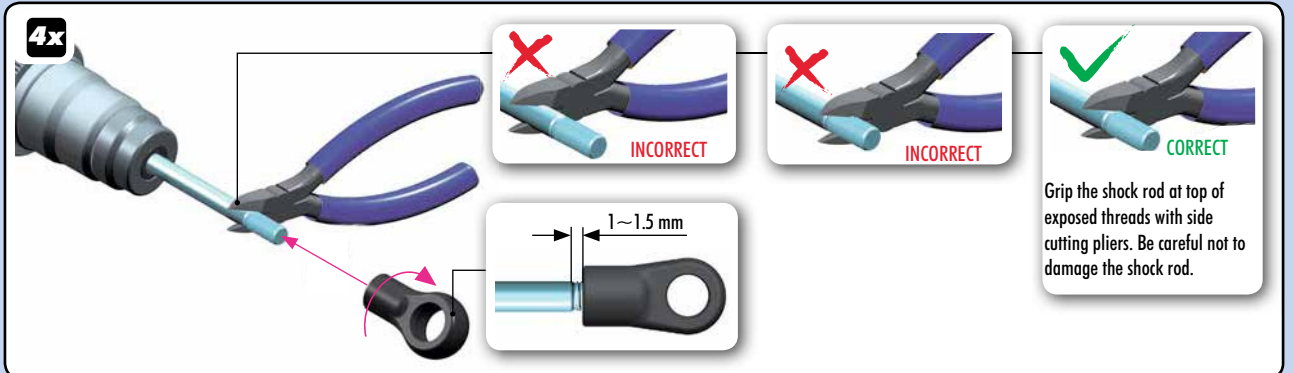
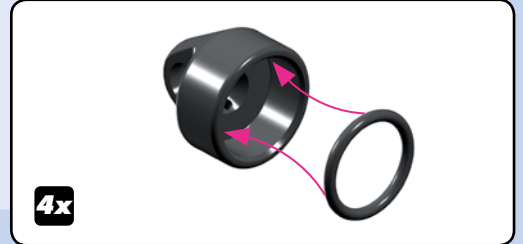
10
306219
SHIM 3x6x1



10
970140
O 14x1.5



10
970120
O 12x1

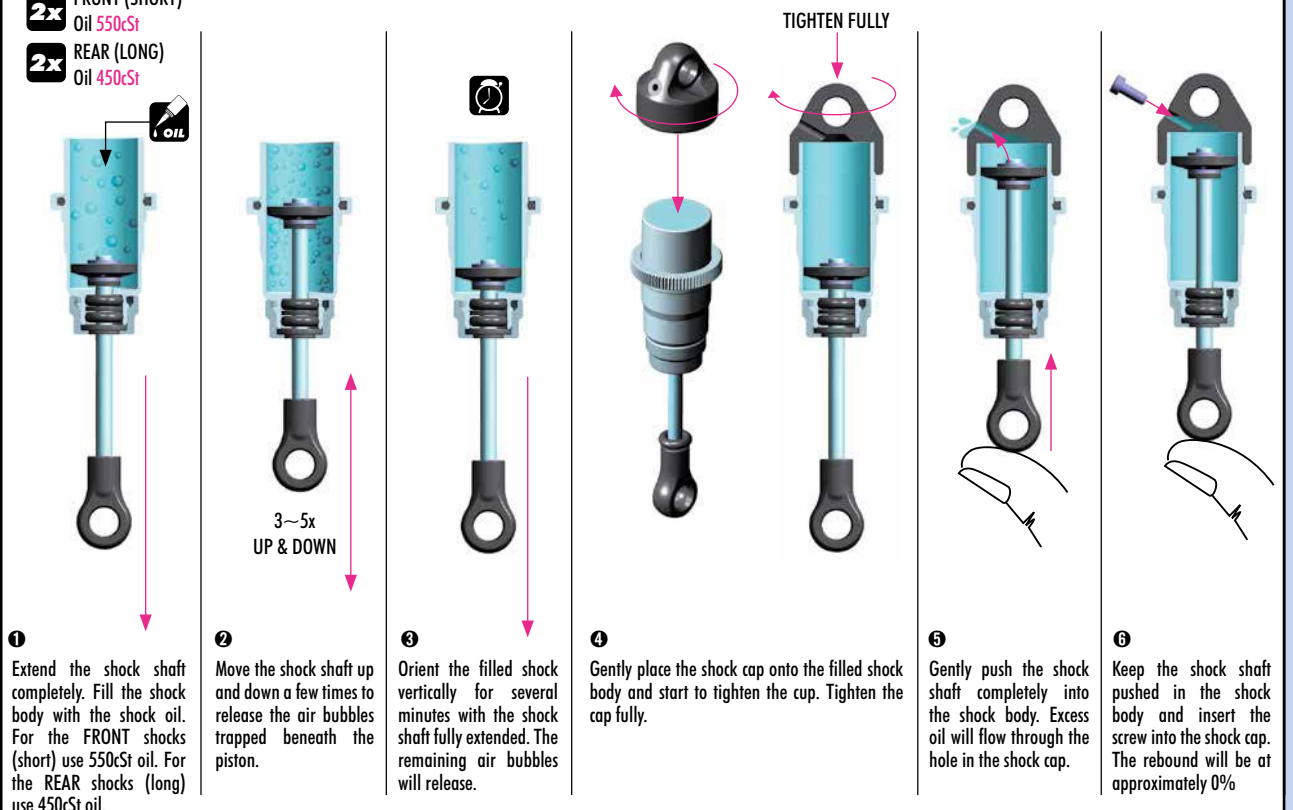


SET-UP BOOK
902205
SH M2x5

DEFAULT 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 550cSt
2x REAR (LONG)
Oil 450cSt

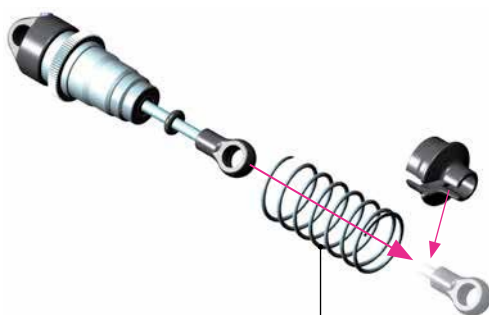


SET-UP BOOK
SHOCK OIL

SHOCK ABSORBERS

2x FRONT SHOCKS (SHORT)

2x REAR SHOCKS (LONG)



SHORT FRONT SHOCKS **2x** **2x** LONG REAR SHOCKS
Short Springs 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 34).

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.

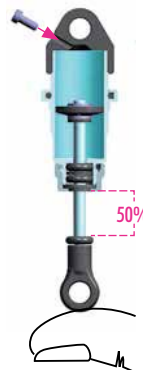
TIGHTEN FULLY



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



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

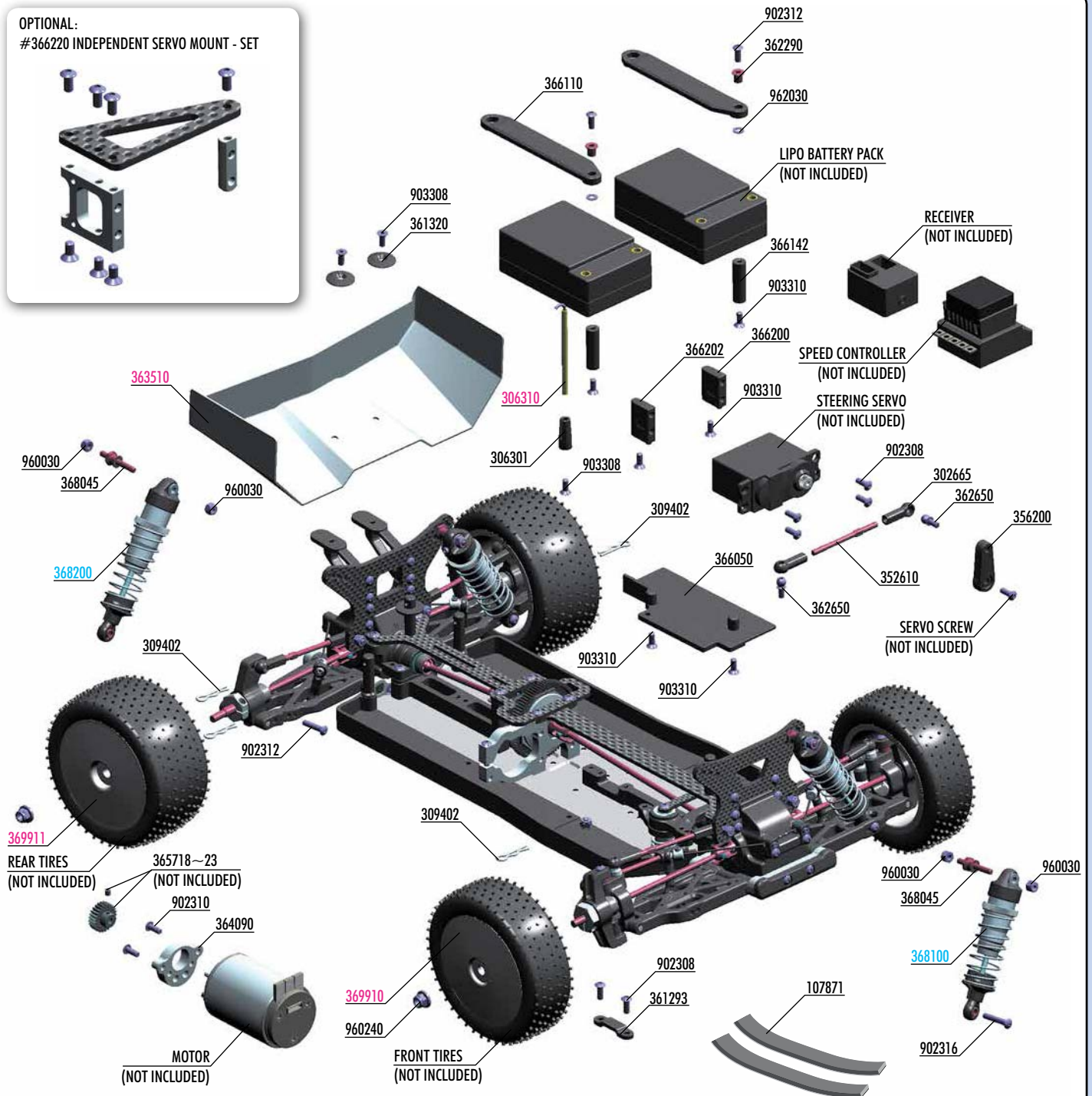


4 Gently place the shock cap assembly onto the filled shock body. Keep the shock shaft extended 100% from the shock body and tighten the shock cap completely. The rebound will be at approximately 100%.

8. FINAL ASSEMBLY

OPTIONAL:

#366220 INDEPENDENT SERVO MOUNT - SET



BAG

08

- 10 7871 HUDY SELF-ADHESIVE FOAM STRIP (2)
- 30 2665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
- 30 6301 ANTENNA MOUNT - THIN
- 30 9402 BODY CLIP FOR 6MM BODY POST (4)
- 35 2610 ADJ. TURNBUCKLE M3 L/R 45 MM - SPRING STEEL™ (2)
- 35 6200 BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET
- 36 1293 COMPOSITE CHASSIS WIRE COVER
- 36 1320 BODY MOUNT, BATTERY MOUNT - V2 & WING SHIM (2)
- 36 2290 STEEL STEERING BUSHING - SHORT (2)
- 36 2650 BALL END 4.9MM WITH THREAD 6MM (2)
- 36 4090 ALU ECCENTRIC MOTOR BULKHEAD INSERT
- 36 5718~23 ALU PINION GEAR HARD COATED 18~23T/48 (OPTION)
- 36 6050 COMPOSITE RADIO PLATE
- 36 6110 COMPOSITE BATTERY STRAP L + R
- 36 6142 COMPOSITE BATTERY HOLDER STAND (2)
- 36 6200 COMPOSITE SERVO MOUNT (2)
- 36 6202 COMPOSITE SERVO MOUNT - HIGHER
- 36 8045 STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)

- 90 2308 HEX SCREW SH M3x8 (10)
- 90 2310 HEX SCREW SH M3x10 (10)
- 90 2312 HEX SCREW SH M3x12 (10)
- 90 2316 HEX SCREW SH M3x16 (10)
- 90 3308 HEX SCREW SFH M3x8 (10)
- 90 3310 HEX SCREW SFH M3x10 (10)
- 96 0030 NUT M3 (10)
- 96 2030 WASHER S 3x6x0.3 (10)
- 96 0240 NUT M4 WITH SERRATED FLANGE (10)

- 36 8100 FRONT SHOCK ABSORBERS COMPLETE SET (2)
- 36 8200 REAR SHOCK ABSORBERS COMPLETE SET (2)

- 30 6310 ANTENNA (2)
- 36 3510 LEXAN REAR WING (2)
- 36 9702 XRAY XB4 BODY - WIDE
- 36 9910 FRONT WHEELS AERODISK - WHITE (2)
- 36 9911 REAR WHEELS AERODISK - WHITE (2)

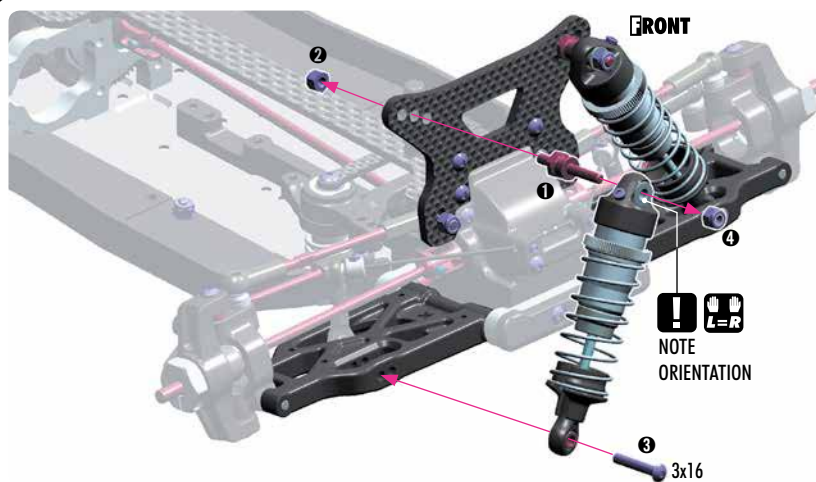
FINAL ASSEMBLY



960030
N M3



902316
SH M3x16



FRONT

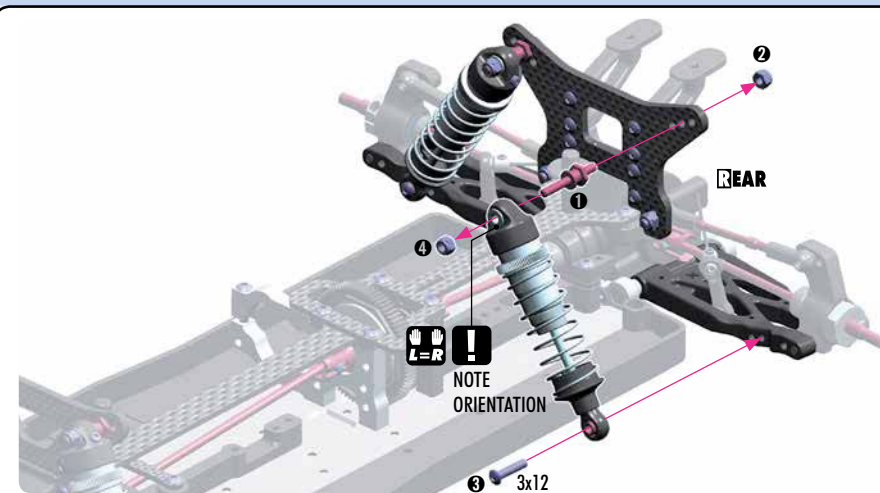
INITIAL POSITION



960030
N M3



902312
SH M3x12



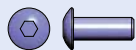
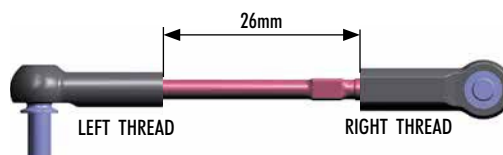
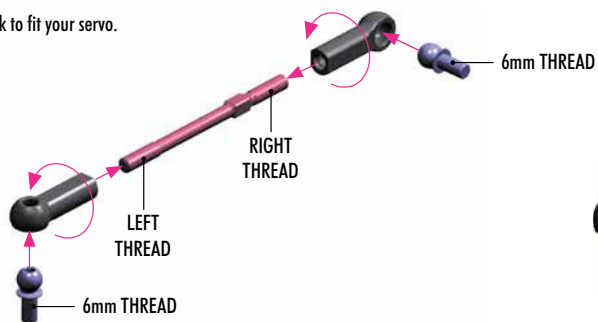
REAR

INITIAL POSITION

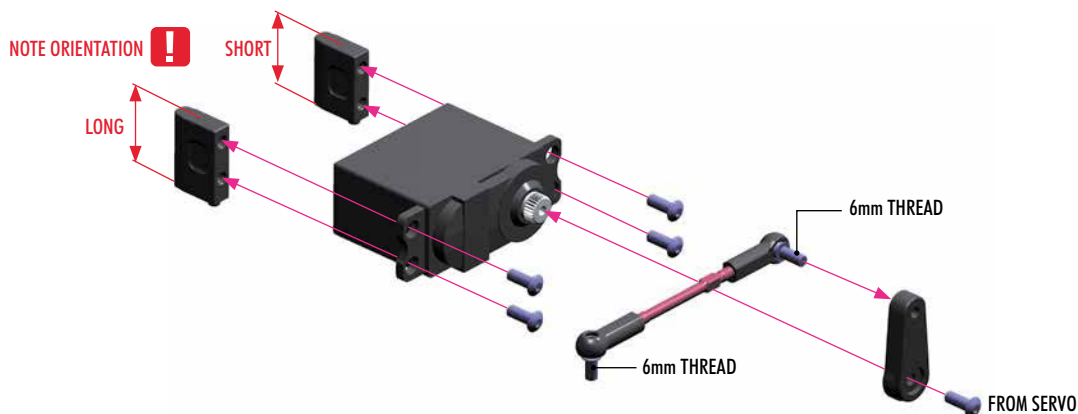


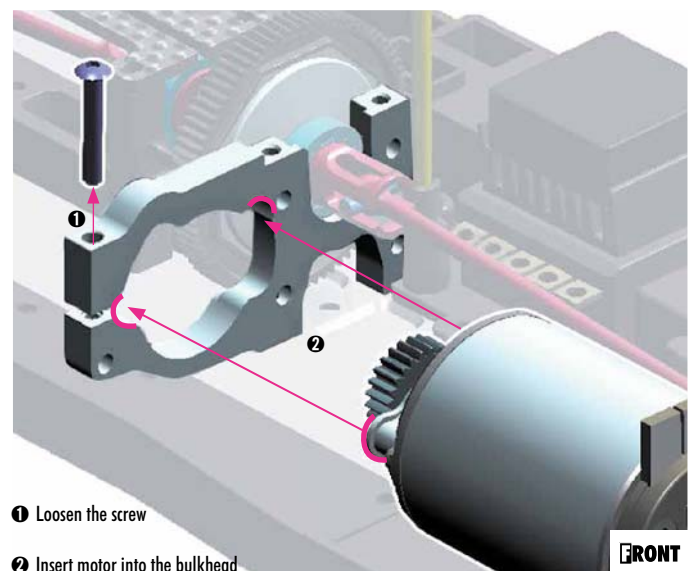
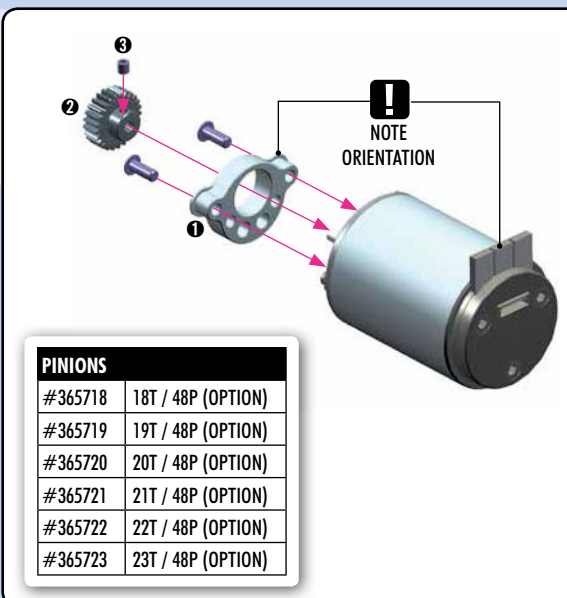
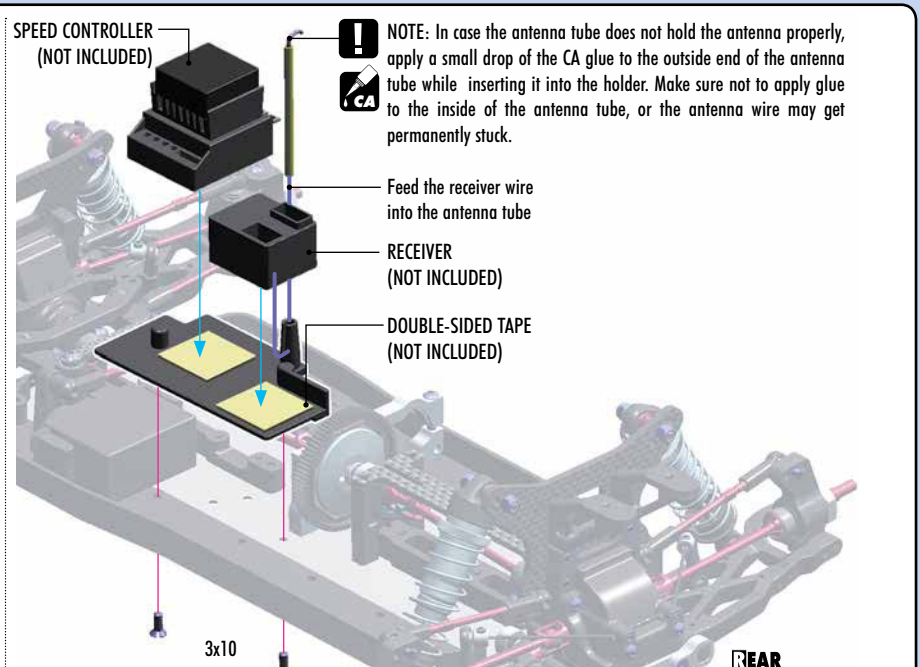
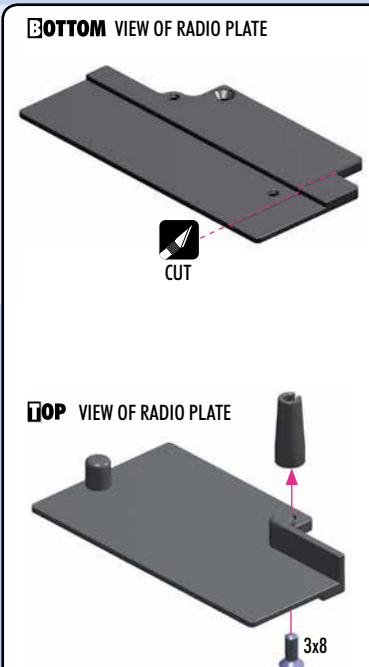
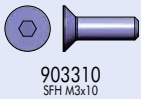
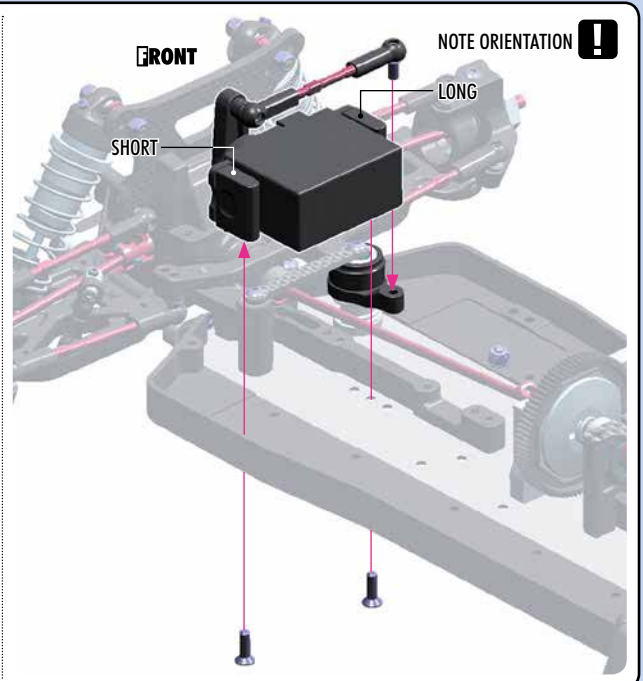
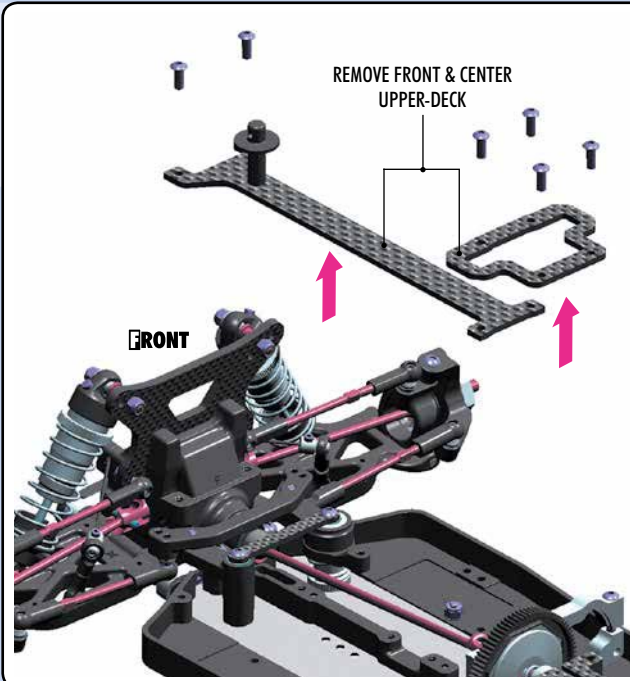
SERVO LINK

Adjust servo link to fit your servo.



902308
SH M3x8



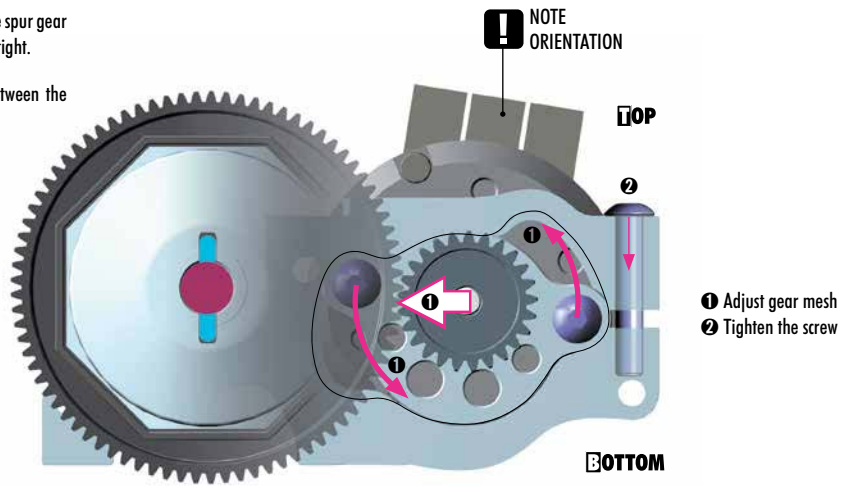


- 1 Loosen the screw
- 2 Insert motor into the bulkhead

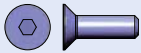
FINAL ASSEMBLY

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.



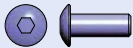
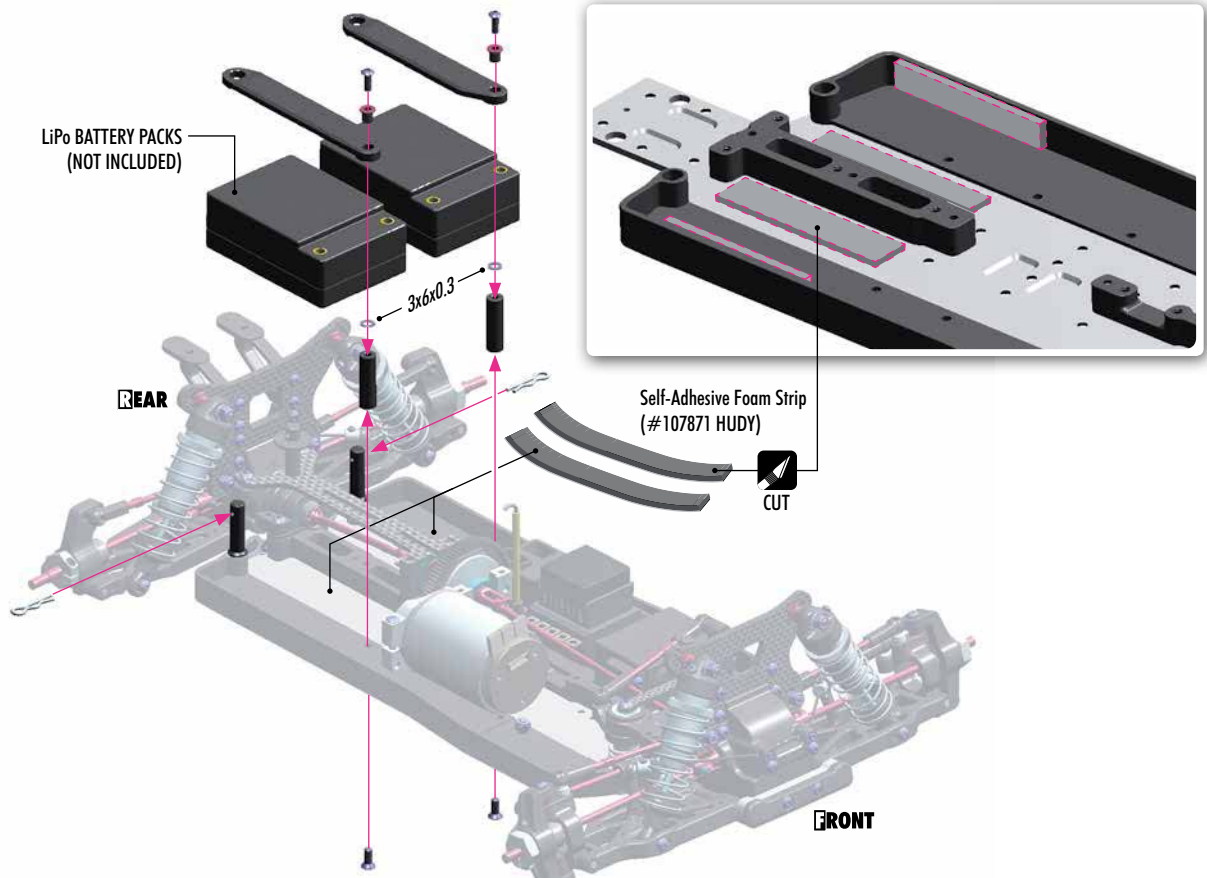
902312
SH M3x12



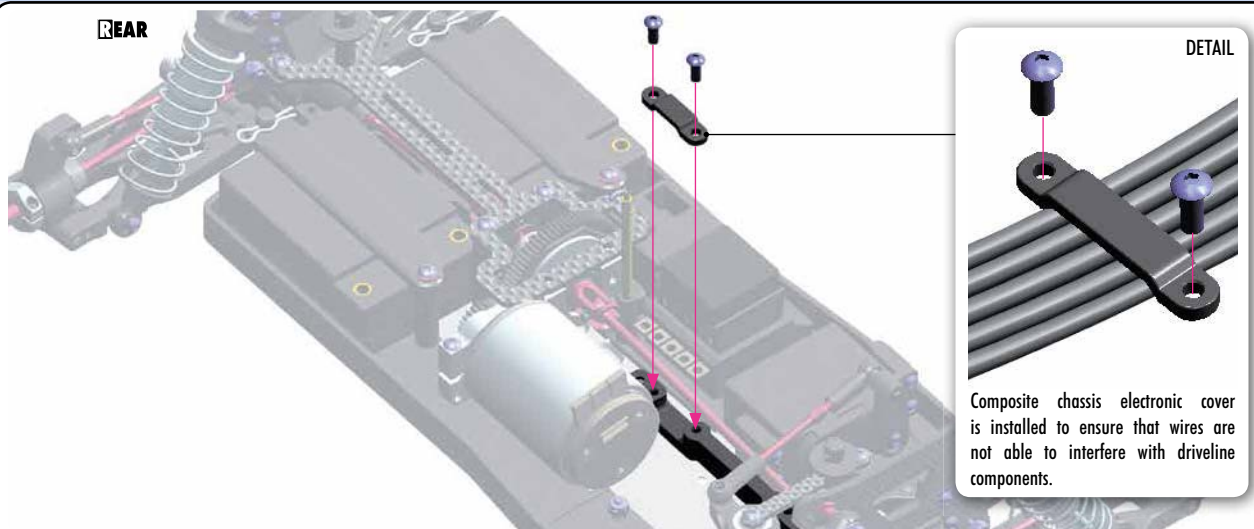
903310
SFH M3x10

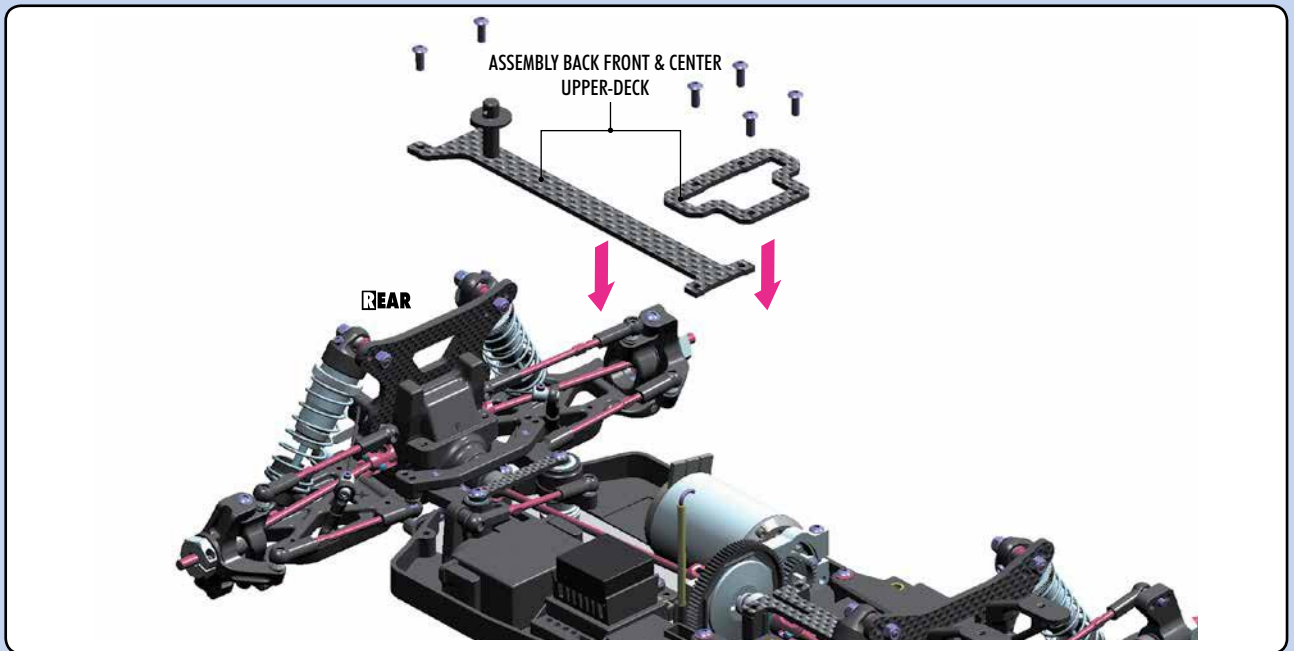


962030
SHIM 3x6x0.3



902308
SH M3x8



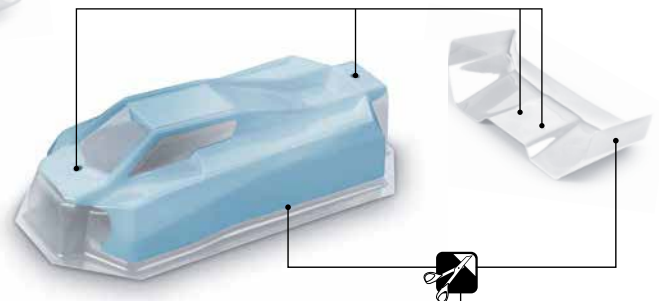


- ❶ Before cutting and making holes on the BODY, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts. Before cutting and making holes on the WING, put the unpainted wing on the wing holders to confirm the mounting position and location for holes and cutouts.
- ❷ Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
- ❸ Mask all windows.

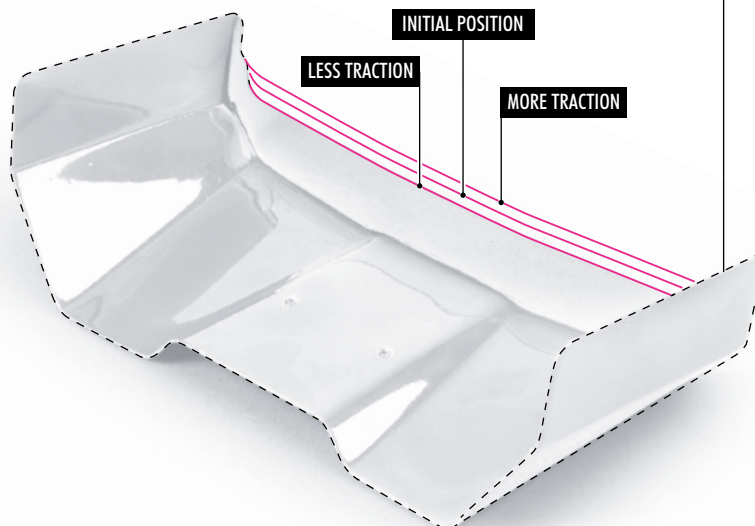
- ❹ Apply paint masks as appropriate.
- ❺ Paint the body using paints formulated for polycarbonate bodies.
- ❻ When the paint is dry, remove the masking.
- ❼ Carefully cut out the body using appropriate scissors or cutting tools.
- ❽ When you have finished cutting, peel off the external protective films.



BODY REAMER (HUDY #107600)

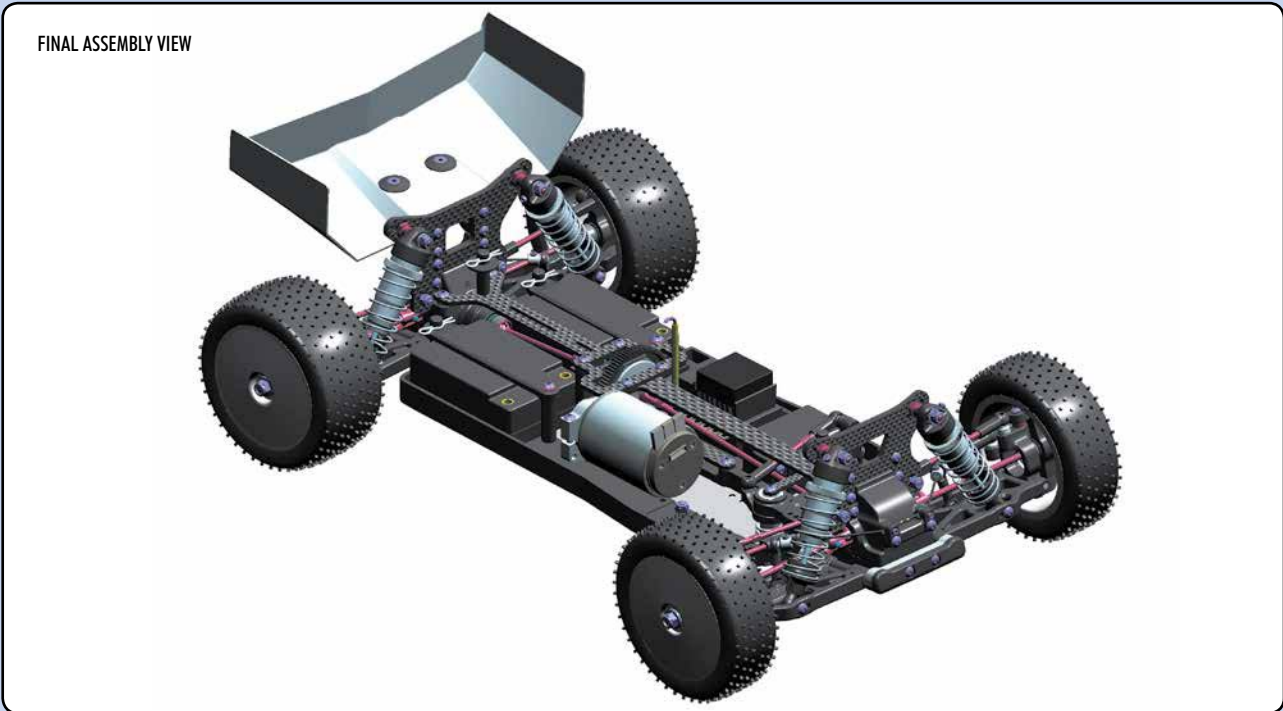
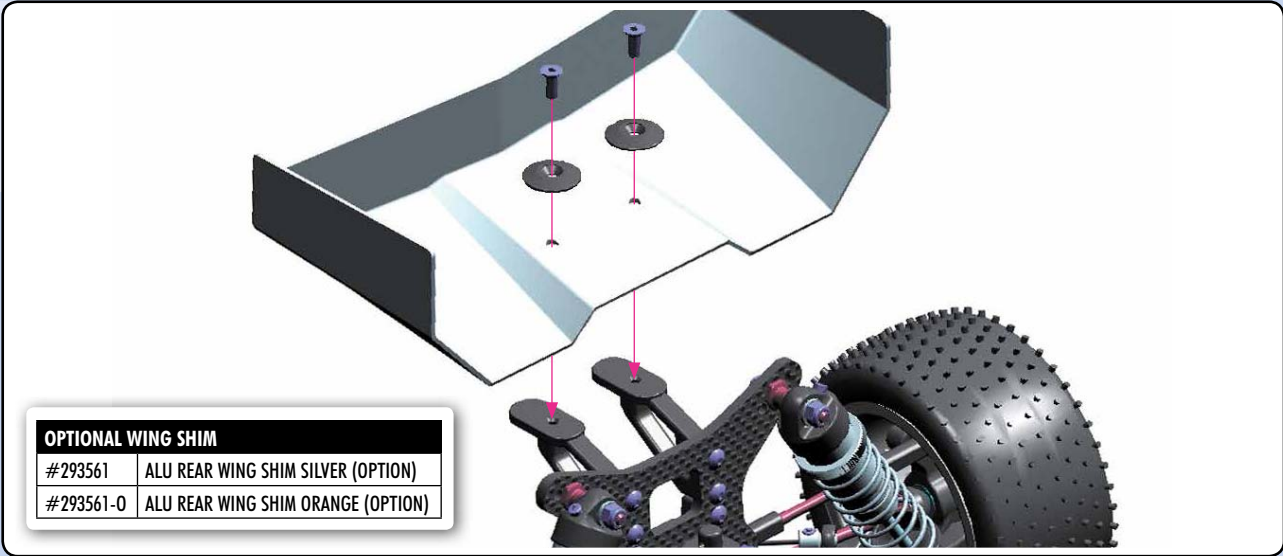
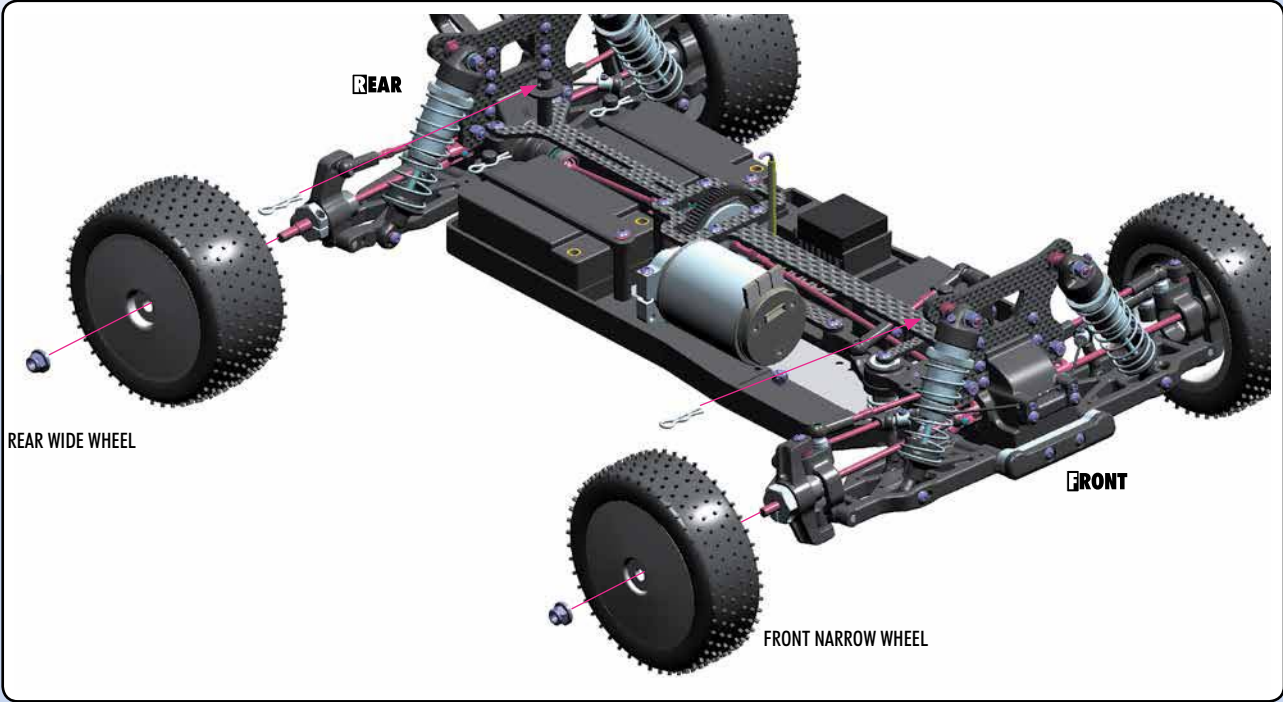


WING CUTTING LINE OPTIONS



LEXAN BODY	
#369702	(STANDARD)
#369703	LIGHT (OPTION)
LEXAN REAR WING	
#363510	1.0mm (STANDARD)
#363511	1.5mm (OPTION)
#363512	2.0mm (OPTION)

FINAL ASSEMBLY



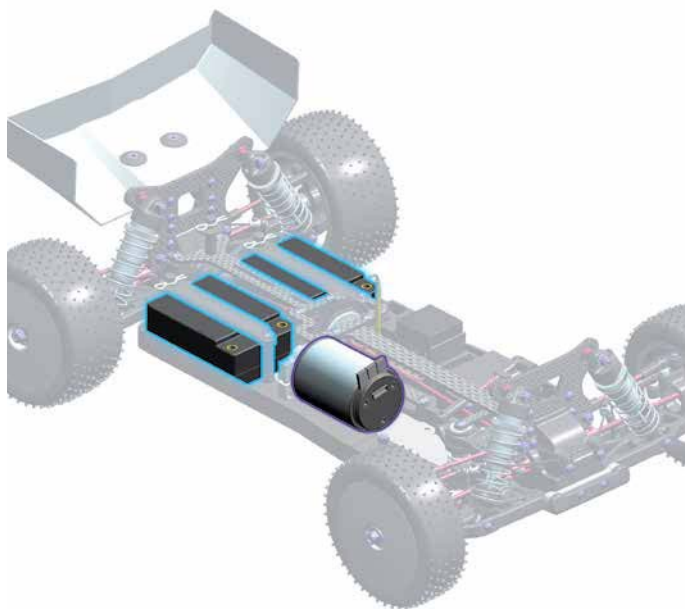
MOTOR POSITION ALTERNATIVES

The XB4 can be assembled to fit either the saddle battery pack or short battery pack. Depending on the version you choose, you will need to follow different assembly instructions.

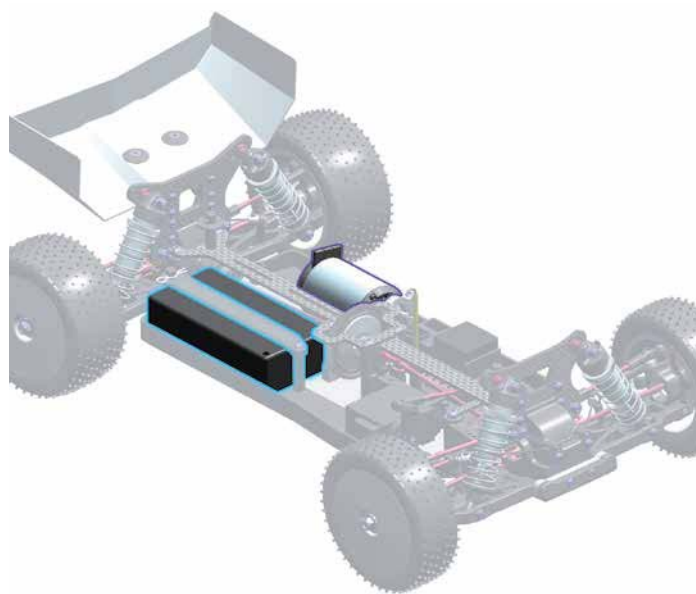
Saddle Pack Batteries (forward motor position):
Follow the assembly steps on pages 6-38.

Short Battery Pack (rearward motor position):
On pages 39-44, follow the alternative assembly methods for the designated steps.

FORWARD MOTOR POSITION SADDLE PACK BATTERIES

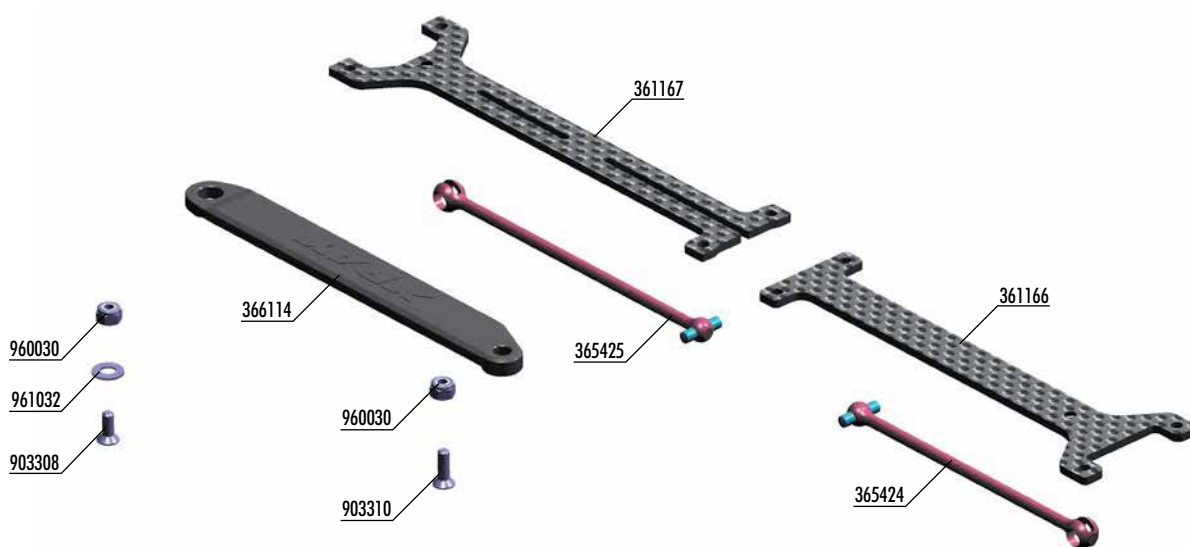


REARWARD MOTOR POSITION SHORT BATTERY PACK



REARWARD MOTOR POSITION / SHORT BATTERY PACK INSTRUCTION MANUAL

In the kit you will find a separate Bag 09 which includes all specific parts to build the car with a Short Battery Pack (instead of with saddle pack batteries).



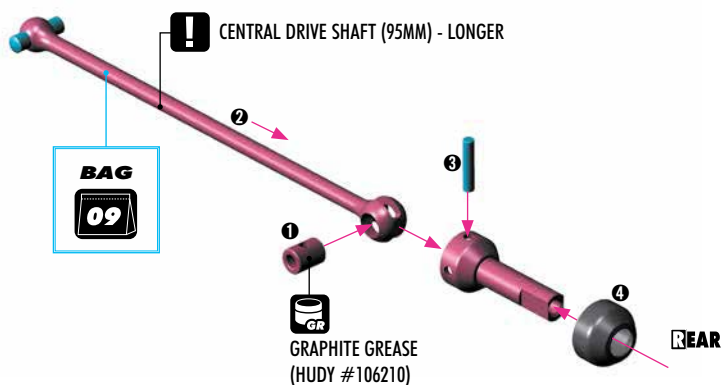
BAG
09

36 1166 GRAPHITE FRONT UPPER DECK 2.0MM - SHORT
36 1167 GRAPHITE REAR UPPER DECK 2.0MM - LONG
36 5424 CENTRAL DRIVE SHAFT 85MM - HUDY SPRING STEEL™
36 5425 CENTRAL DRIVE SHAFT 95MM - HUDY SPRING STEEL™
36 6114 COMPOSITE BATTERY STRAP - LONG

90 3308 HEX SCREW SFH M3x8 (10)
90 3310 HEX SCREW SFH M3x10 (10)
96 0030 NUT M3 (10)
96 1032 WASHER S 3.2 (10)

PAGE 8 / STEP 1

980210
P 2x10



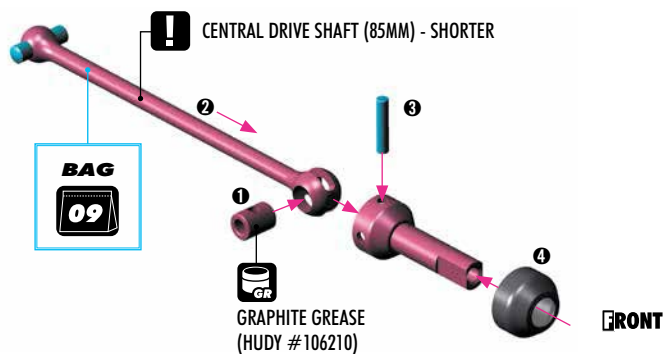
PAGE 9 / STEP 2

902310
SH M3x10



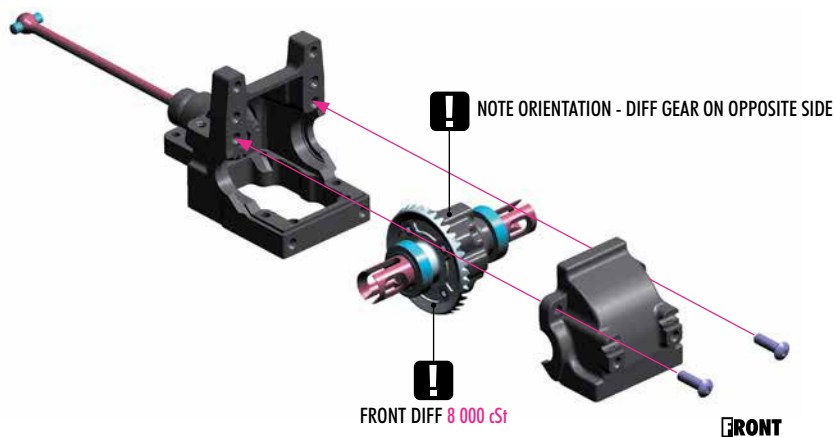
PAGE 10 / STEP 1

980210
P 2x10



PAGE 11 / STEP 2

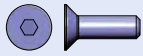
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SH M3x10



PAGE 23 / STEP 1



903308
SFH M3x8



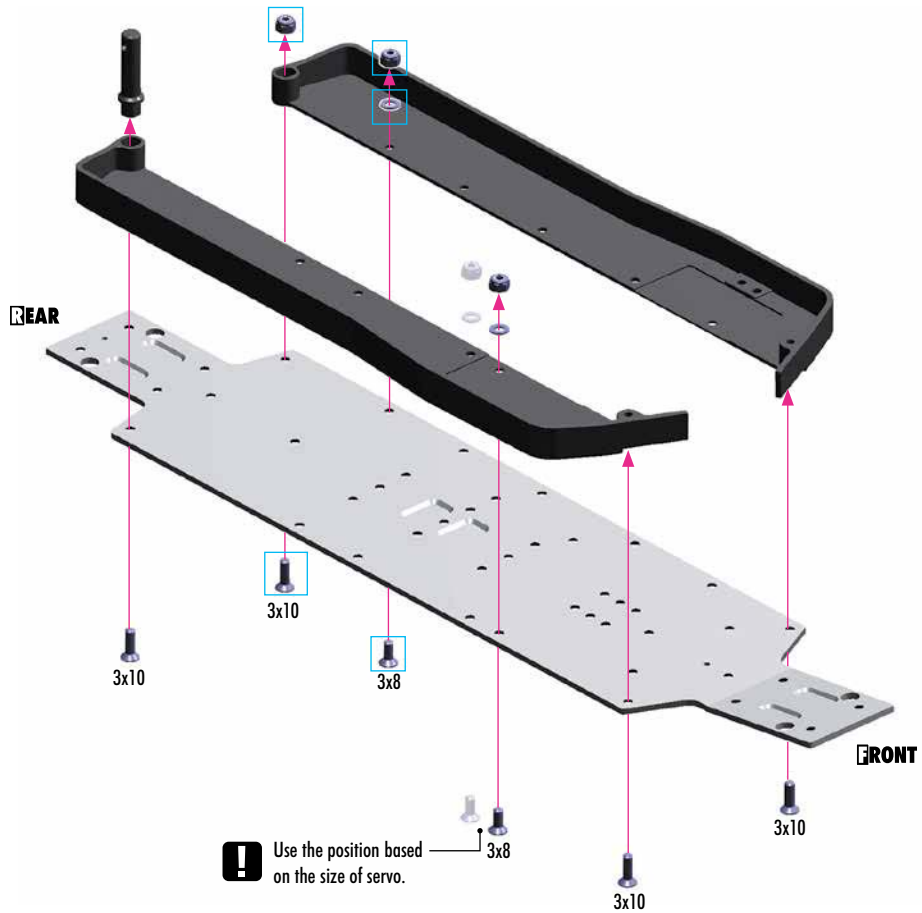
903310
SFH M3x10



960030
N M3



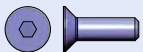
961032
S3.2



PAGE 26 / STEP 1



902310
SH M3x10



903310
SFH M3x10

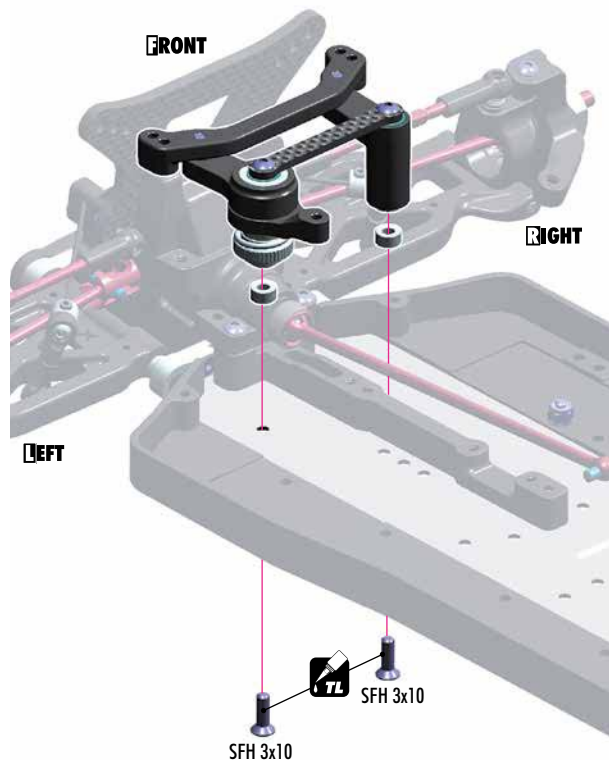


303125
SHIM 3x6x3

!
NOTE ORIENTATION
POSTS IN DIFFERENT POSITIONS

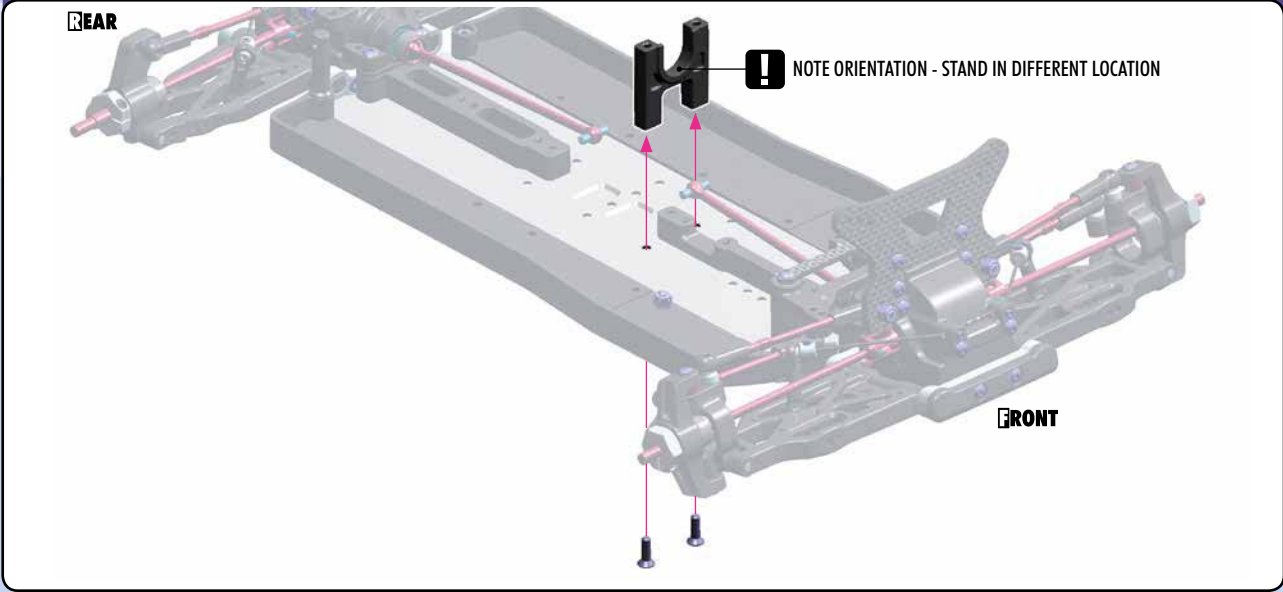
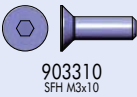


PAGE 26 / STEP 2

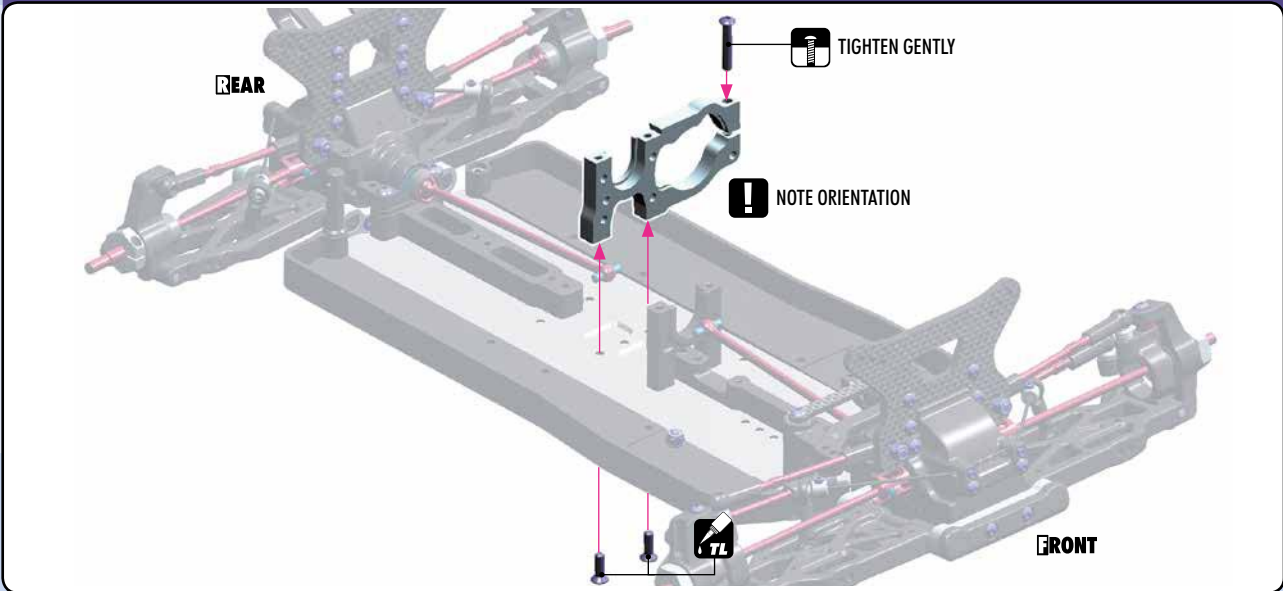
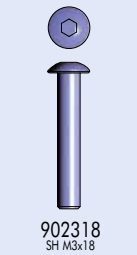
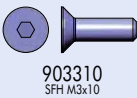


REARWARD MOTOR POSITION

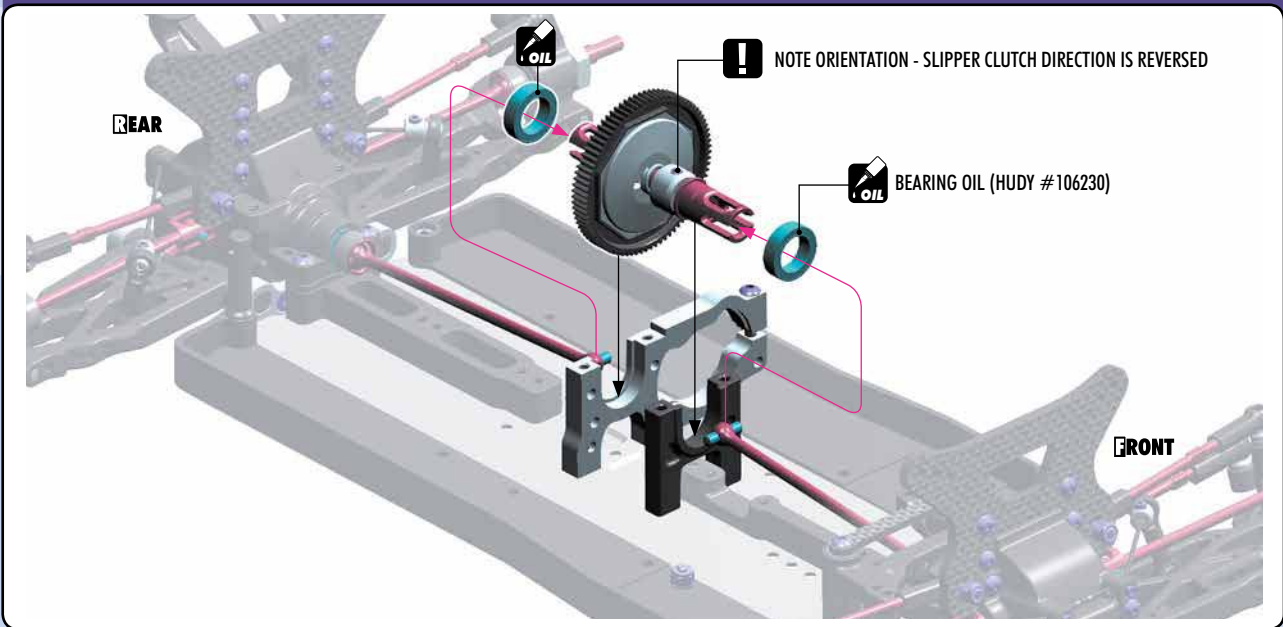
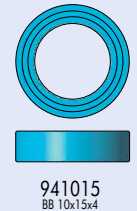
PAGE 28 / STEP 1



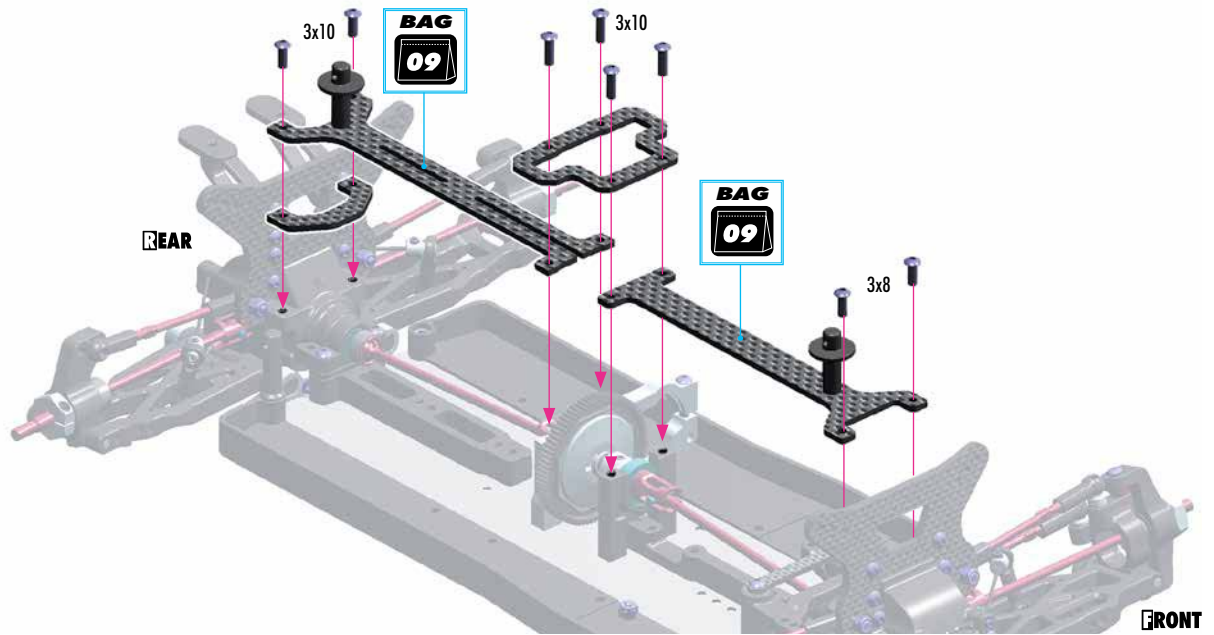
PAGE 28 / STEP 2



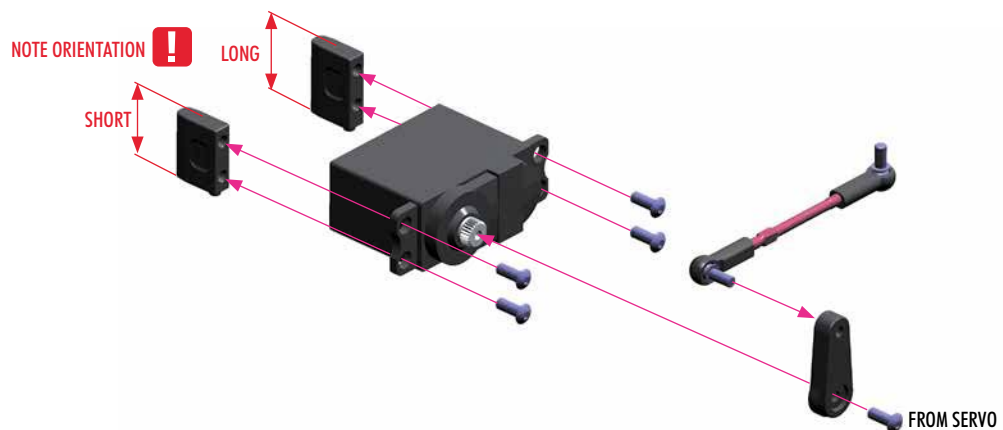
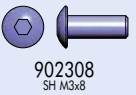
PAGE 28 / STEP 3



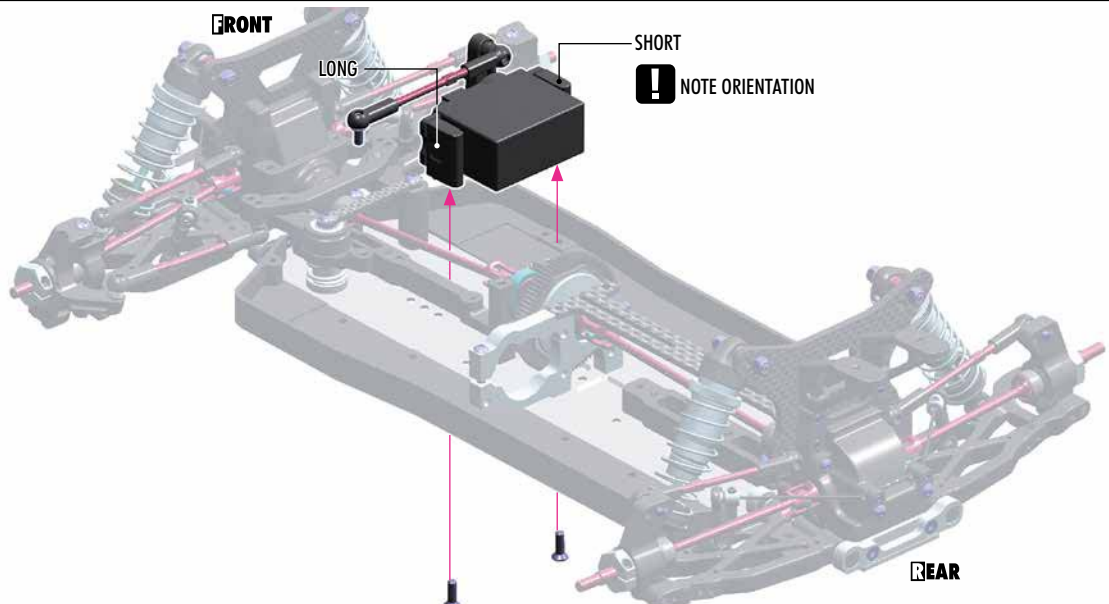
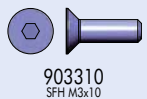
PAGE 29 / STEP 3



PAGE 34 / STEP 4

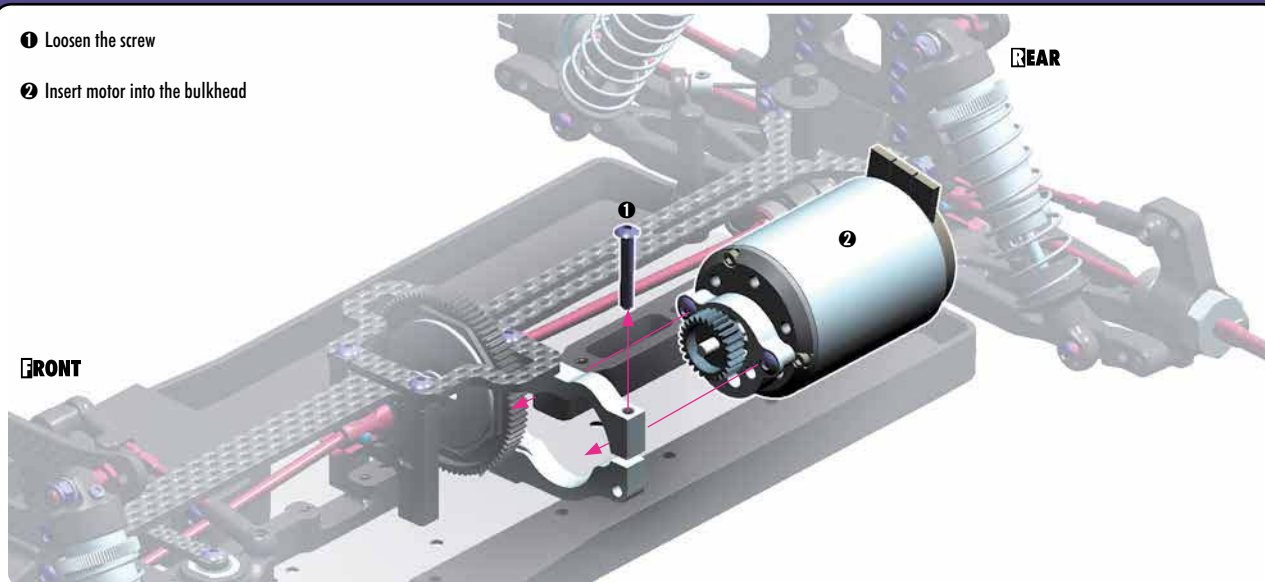


PAGE 35 / STEP 1

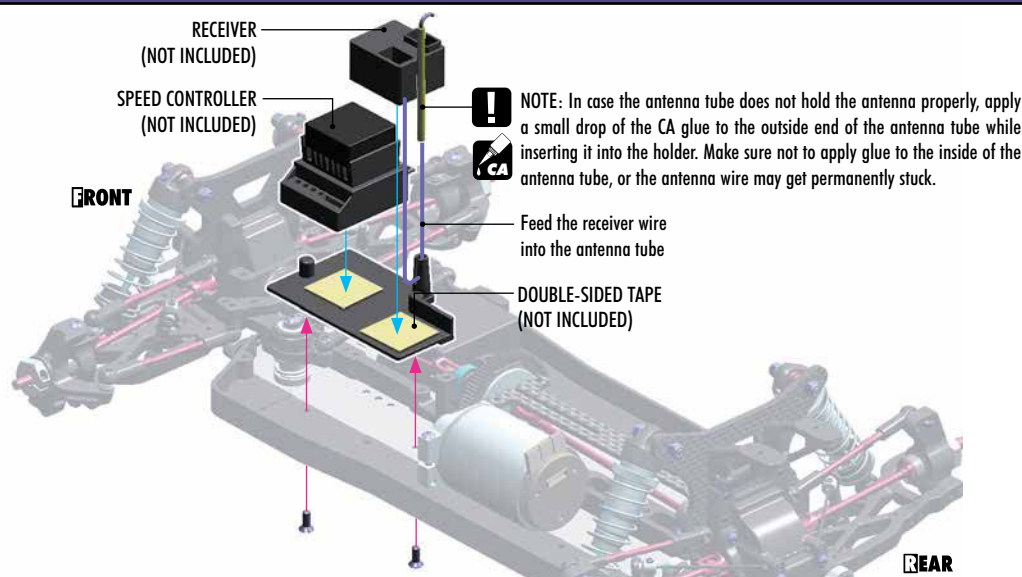


PAGE 35 / STEP 3

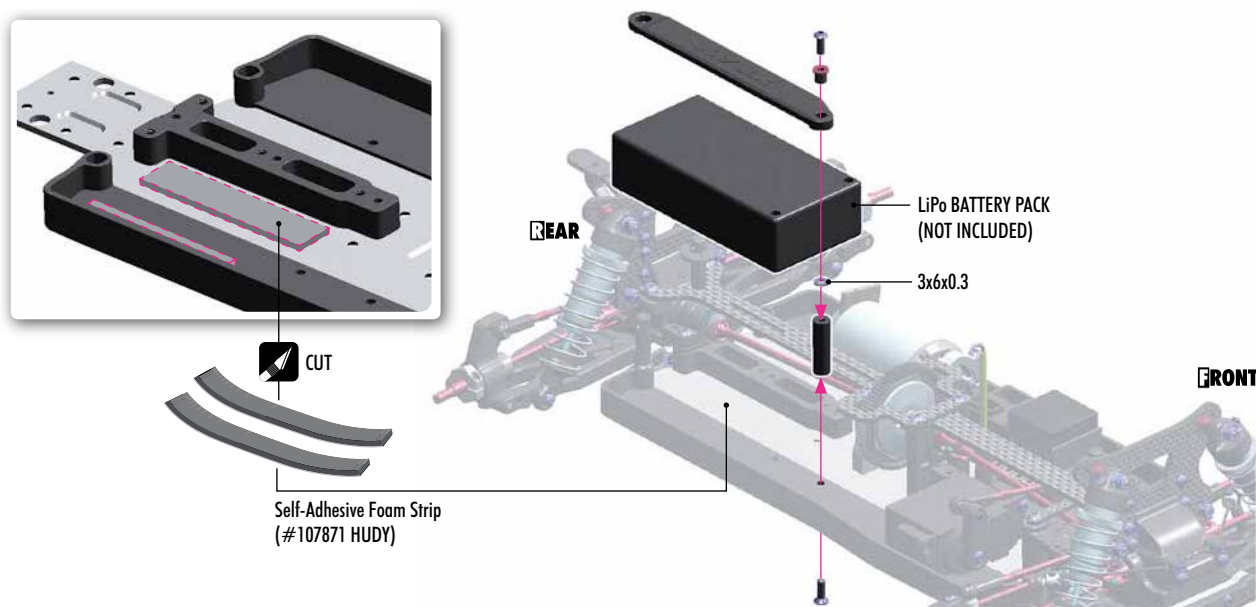
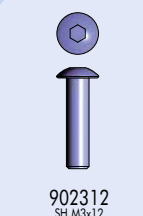
- 1 Loosen the screw
- 2 Insert motor into the bulkhead



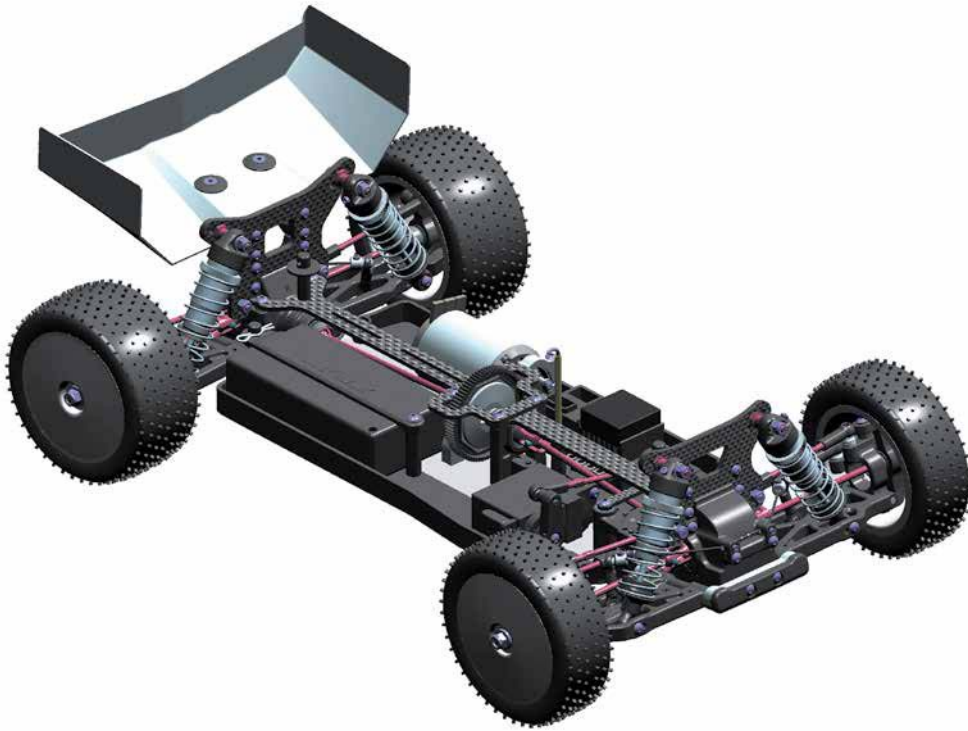
PAGE 35 / STEP 2



PAGE 36 / STEP 2



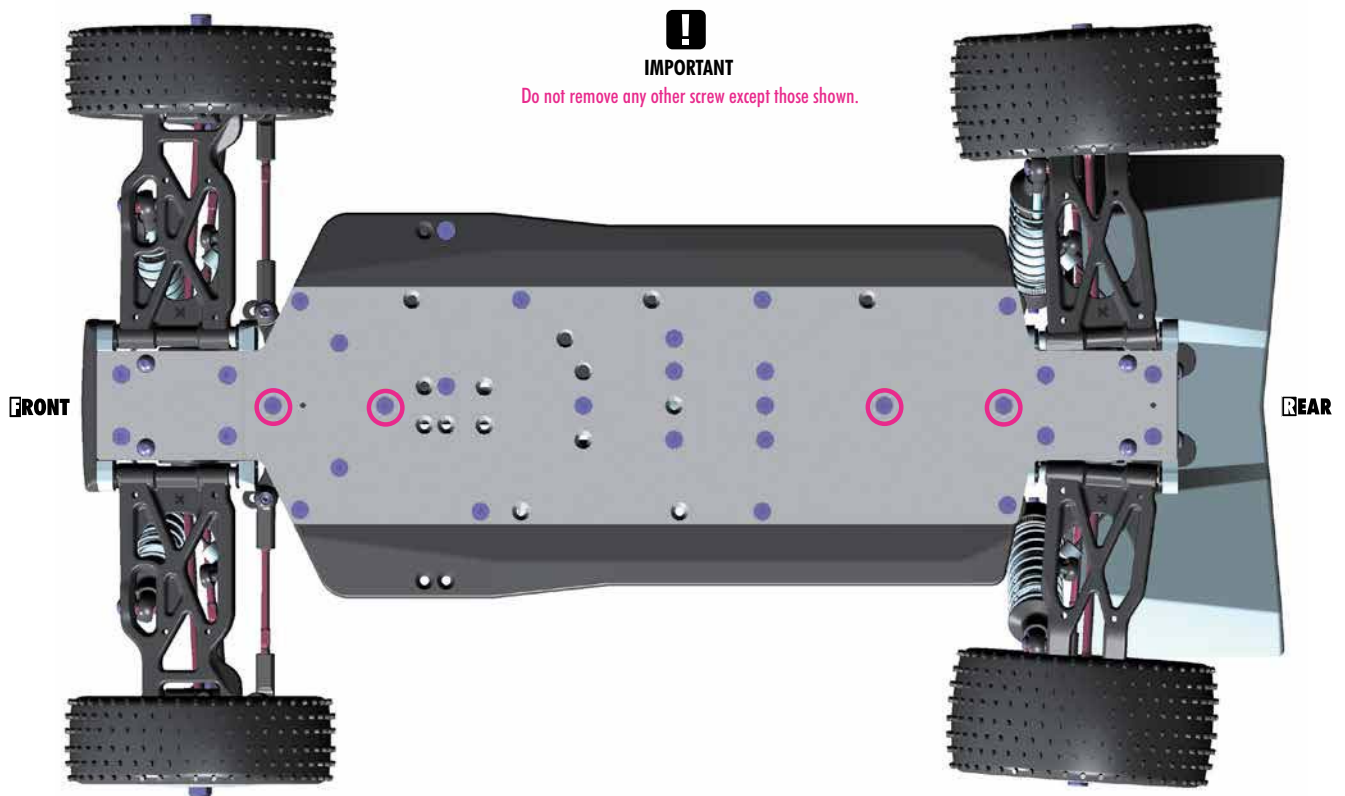
FINAL ASSEMBLY VIEW



MULTI-FLEX™

You can adjust the chassis flex by adding or removing the screws in the center of the chassis. The less screws used the softer the chassis flex will be. The more screws used the stiffer the chassis flex will be.

LESS SCREWS = SOFT FLEX SETTING
MORE SCREWS = STIFFER FLEX SETTING



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 XB4 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 (both side and center) 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 connecting pins which connect the center drive shafts with the pinion gear, and also 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 after some time "go down" 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 XB4'15

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
TRACK TRACTION	<input type="checkbox"/> HIGH	<input type="checkbox"/> MEDIUM	<input type="checkbox"/> LOW
TRACK SURFACE	<input type="checkbox"/> SMOOTH	<input type="checkbox"/> MEDIUM	<input type="checkbox"/> BUMPY
TRACK TYPE	<input type="checkbox"/> HARD PACKED	<input type="checkbox"/> SOFT DIRT	<input type="checkbox"/> CLAY
	<input type="checkbox"/> CARPET	<input type="checkbox"/> BLUE GROOVE	<input type="checkbox"/> ASTRO TURF
		<input type="checkbox"/> GRASS	
TRACK CONDITION	<input type="checkbox"/> DRY	<input type="checkbox"/> DUSTY	<input type="checkbox"/> WET
		<input type="checkbox"/> MUD	

DIFFERENTIAL TYPE		
FRONT ↓	MIDDLE ↓	REAR ↓
GEAR DIFF <input type="checkbox"/>	GEAR DIFF <input type="checkbox"/>	GEAR DIFF <input type="checkbox"/>
BALL DIFF <input type="checkbox"/>	SLIPPER <input type="checkbox"/>	BALL DIFF <input type="checkbox"/>
OIL <input type="checkbox"/> cSt	OIL <input type="checkbox"/> cSt	OIL <input type="checkbox"/> cSt
SATELLITE GEARS		
COMPOSITE <input type="checkbox"/>	COMPOSITE <input type="checkbox"/>	COMPOSITE <input type="checkbox"/>
STEEL <input type="checkbox"/>	STEEL <input type="checkbox"/>	STEEL <input type="checkbox"/>
CROWN GEAR		
COMPOSITE <input type="checkbox"/>	COMPOSITE <input type="checkbox"/>	COMPOSITE <input type="checkbox"/>
STEEL <input type="checkbox"/>	STEEL <input type="checkbox"/>	STEEL <input type="checkbox"/>
ALU <input type="checkbox"/>	ALU <input type="checkbox"/>	ALU <input type="checkbox"/>

COMPOSITE <input type="checkbox"/>	PINION	COMPOSITE <input type="checkbox"/>
STEEL <input type="checkbox"/>		STEEL <input type="checkbox"/>

GEARING	
PINION	SPUR GEAR

FRONT	SHOCKS	REAR
	SPRINGS	
cSt	OIL	cSt
	REBOUND	
mm	DOWNSTOP SHIM	mm
YES <input type="checkbox"/> NO <input type="checkbox"/>	UPSTOP TRAVEL ORING	YES <input type="checkbox"/> NO <input type="checkbox"/>
<input type="checkbox"/> 2 HOLES <input type="checkbox"/>	PISTONS	<input type="checkbox"/> 2 HOLES <input type="checkbox"/>
<input type="checkbox"/> 3 HOLES <input type="checkbox"/>	<input type="checkbox"/> ø1.0mm <input type="checkbox"/>	<input type="checkbox"/> 3 HOLES <input type="checkbox"/>
<input type="checkbox"/> 6 HOLES <input type="checkbox"/>	<input type="checkbox"/> ø1.1mm <input type="checkbox"/>	<input type="checkbox"/> 6 HOLES <input type="checkbox"/>
	<input type="checkbox"/> ø1.2mm <input type="checkbox"/>	
	<input type="checkbox"/> ø1.3mm <input type="checkbox"/>	
	<input type="checkbox"/> ø1.4mm <input type="checkbox"/>	
	CUSTOM PISTONS	
	<input type="checkbox"/> mm <input type="checkbox"/> mm	
	HOLES <input type="checkbox"/>	

FRONT	ANTI ROLL BAR	REAR
	THICKNESS	
mm		mm

FRONT	TIRES	REAR
	TYPE	
	INSERTS	
	WHEELS	

ELECTRONICS	
MOTOR	SPEEDO
TIMING	BATTERIES

ELECTRONICS LAYOUT	
SERVO POSITION	LEFT <input type="checkbox"/> RIGHT <input type="checkbox"/>
MOTOR POSITION	FRONT <input type="checkbox"/> REAR <input type="checkbox"/>
SPEEDO POSITION	LEFT <input type="checkbox"/> RIGHT <input type="checkbox"/>
RECEIVER POSITION	LEFT <input type="checkbox"/> RIGHT <input type="checkbox"/>
BATTERY TYPE	SADDLE PACK <input type="checkbox"/> SHORT <input type="checkbox"/>

COMMENTS

FRONT	APPLIED <input type="checkbox"/> <input checked="" type="checkbox"/> APPLIED	REAR
STEERING BLOCK COMPOSITE <input type="checkbox"/> ALU <input type="checkbox"/> LONGER BUSHINGS UP <input type="checkbox"/> DOWN <input type="checkbox"/>		UPRIGHT COMPOSITE <input type="checkbox"/> ALU <input type="checkbox"/> DOWNSTOP

OFFSET STANDARD <input type="checkbox"/> +0.75mm <input type="checkbox"/> -0.75mm <input type="checkbox"/>	CASTER 6° <input type="checkbox"/> 9° <input type="checkbox"/>	CASTER BLOCK COMPOSITE <input type="checkbox"/> ALU <input type="checkbox"/>	SHOCK TOWER POSITION FRONT <input type="checkbox"/> REAR <input type="checkbox"/>	WING TYPE STANDARD <input type="checkbox"/>
	BUMP STEER SHIM mm	SHOCK POSITION FRONT <input type="checkbox"/> REAR <input type="checkbox"/>	WING CUTTING LINE + <input type="checkbox"/> 0 <input type="checkbox"/> - <input type="checkbox"/>	OFFSET STANDARD <input type="checkbox"/> +0.75mm <input type="checkbox"/> -0.75mm <input type="checkbox"/>
FRONT			UPRIGHT WHEELBASE SHIM 0mm <input type="checkbox"/> 2mm <input type="checkbox"/>	REAR

FF <input type="checkbox"/> 1° <input type="checkbox"/> 0.5° <input type="checkbox"/> 1° <input type="checkbox"/> 0.5°	ROLL CENTER ECCENTRIC BUSHINGS	RF <input type="checkbox"/> 1° <input type="checkbox"/> 0.5° <input type="checkbox"/> 1° <input type="checkbox"/> 0.5°	RR <input type="checkbox"/> 1° <input type="checkbox"/> 0.5° <input type="checkbox"/> 1° <input type="checkbox"/> 0.5°
	BUMP STEER SHIM mm		ARM SHIM mm

FRONT TOE OUT <input type="checkbox"/> IN <input type="checkbox"/>	BUMP STEER SHIM SHIM UNDER STEERING PLATE SERVO SAVER SOFT <input type="checkbox"/> MEDIUM <input type="checkbox"/> TIGHT <input type="checkbox"/>	REAR TOE OUT <input type="checkbox"/> IN <input type="checkbox"/>
ACKERMANN PLATE COMPOSITE <input type="checkbox"/> ALU <input type="checkbox"/>	FRONT TOP DECK STANDARD <input type="checkbox"/> NO <input type="checkbox"/>	REAR TOP DECK STANDARD <input type="checkbox"/> NO <input type="checkbox"/>
ARM SHIM mm	STEERING BRACE YES <input type="checkbox"/> NO <input type="checkbox"/>	GRAPHITE ARM STIFFENERS YES <input type="checkbox"/> NO <input type="checkbox"/>

FRONT CAMBER mm	SHOCK PRELOAD mm	SHOCK PRELOAD mm	REAR CAMBER mm
FRONT ARM STANDARD <input type="checkbox"/>	GRAPHITE ARM STIFFENERS YES <input type="checkbox"/> NO <input type="checkbox"/>	REAR ARM STANDARD <input type="checkbox"/>	GRAPHITE ARM STIFFENERS YES <input type="checkbox"/> NO <input type="checkbox"/>
RIDE HEIGHT mm	RIDE HEIGHT mm	RIDE HEIGHT mm	RIDE HEIGHT mm

FRONT	CHASSIS	REAR
CHASSIS FLEX SCREW USED <input type="checkbox"/> SCREW NOT USED <input type="checkbox"/>	CHASSIS PLATE YES <input type="checkbox"/> NO <input type="checkbox"/>	CHASSIS PLATE YES <input type="checkbox"/> NO <input type="checkbox"/>
SIDE GUARDS STANDARD <input type="checkbox"/> HARD <input type="checkbox"/>	CHASSIS FLEX SCREW USED <input type="checkbox"/> SCREW NOT USED <input type="checkbox"/>	CHASSIS FLEX SCREW USED <input type="checkbox"/> SCREW NOT USED <input type="checkbox"/>
CHASSIS FLEX SCREW USED <input type="checkbox"/> SCREW NOT USED <input type="checkbox"/>	CHASSIS FLEX SCREW USED <input type="checkbox"/> SCREW NOT USED <input type="checkbox"/>	CHASSIS FLEX SCREW USED <input type="checkbox"/> SCREW NOT USED <input type="checkbox"/>

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