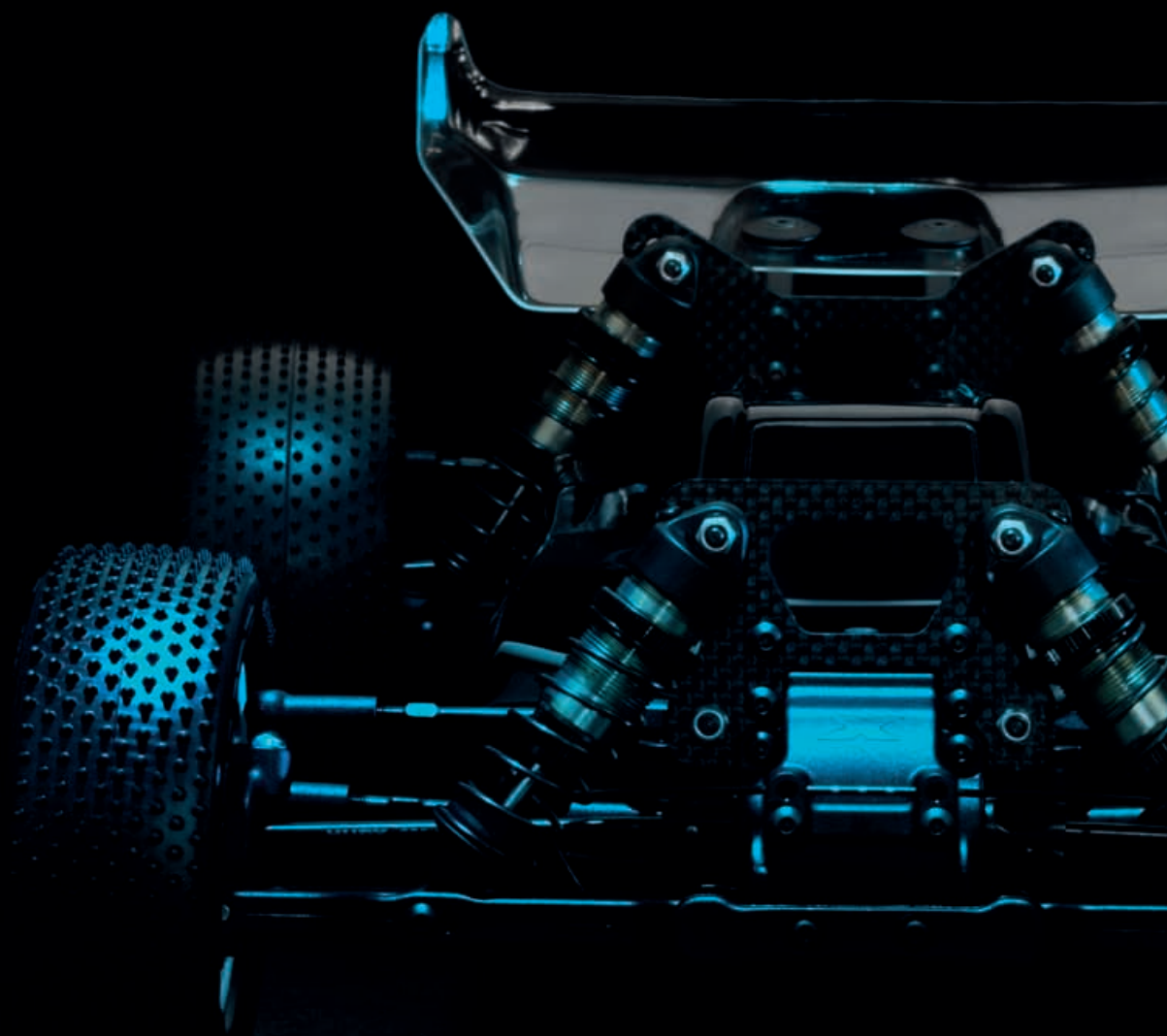


1/10 LUXURY ELECTRIC OFF-ROAD BUGGY 4WD

**XRAY XB4**



**INSTRUCTION MANUAL**  
FOR XB4C'22 & XB4D'22 EDITION

## BEFORE YOU START

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

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

## CUSTOMER SUPPORT

We have made every effort to make these instructions as easy to understand as possible. However, if you have any difficulties, problems, or questions, please do not hesitate to contact the XRAY support team at [info@teamxray.com](mailto:info@teamxray.com). Also, please visit our Web site at [www.teamxray.com](http://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](http://www.teamxray.com)**

Read carefully and fully understand the instructions before beginning assembly.

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

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

### XRAY Europe

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91101 Trenčín  
Slovakia, EUROPE  
Phone: 421-32-7401100  
Fax: 421-32-7401109  
E-mail: [info@teamxray.com](mailto:info@teamxray.com)

### XRAY USA

RC America, 2030 Century Center Blvd #15  
Irving, TX 75062  
USA  
Phone: (214) 744-2400  
Fax: (214) 744-2401  
E-mail: [xray@rcamerica.com](mailto: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 RC models with damaged wires. A damaged wire is extremely dangerous, and can cause short-circuits resulting in fire. Please have wires repaired at your local hobby shop.
- Low battery power will result in loss of control. Loss of control can occur due to a weak battery in either the transmitter or the receiver. Weak running battery may also result in an out of control car if your car's receiver power is supplied by the running battery. Stop operation immediately if the car starts to slow down.
- When not using RC model, always disconnect and remove battery.
- Do not disassemble battery or cut battery cables. If the running battery short-circuits, approximately 300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging,

- or using inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check and/or repair and/or replacement.
- Regularly check the charger for potential hazards such as damage to the cable, plug, casing or other defects. Ensure that any damage is rectified before using the charger again. Modifying the charger may cause short-circuit or overcharging leading to a serious accident. Therefore do not modify the charger.
- Always unplug charger when recharging is finished.
- Do not recharge battery while battery is still warm. After use, battery retains heat. Wait until it cools down before charging.
- Do not allow any metal part to short circuit the receiver batteries or other electrical/electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- Please dispose of batteries responsibly. Never put batteries into fire.

## R/C & BUILDING TIPS

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

## 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

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](http://www.teamxray.com) to get advice, or contact us via email at [info@teamxray.com](mailto:info@teamxray.com), or contact the XRAY distributor in your country.

compromise the integrity of components. Warranty will not cover components that are considered consumable on RC vehicles. XRAY does not pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

### Limitations of Liability

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

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

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

**All rights reserved.**

## QUALITY CERTIFICATE

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

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

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

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

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



## TOOLS REQUIRED



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



## EQUIPMENT REQUIRED





NOT INCLUDED



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



SAMPLE OF OPTIONAL PARTS		
#36XXXX	TYPE1	OPTION 1
#36XXXX	TYPE1	OPTION 2
#36XXXX	TYPE1	INCLUDED

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

COLOR INDICATIONS

At the beginning of each section is an exploded view of the parts to be assembled. There is also a list of all the parts and part numbers that are related to the assembly of that section.

The part descriptions are color-coded to make it easier for you to identify the source of a part. Here are what the different colors mean:

- 364912 **STYLE A** - indicates parts that are included in the bag marked for the section.
- 361111 **STYLE B** - indicates parts that are included in the box.
- 364903 **STYLE C** - indicates parts that are already assembled from previous steps.

TECH TIPS

TIP DRIVE SHAFT PIN SERVICING

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



Do not use drive shafts when the pins are worn.

Press out the worn pins.

Press in new pins and regularly inspect for wear.



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



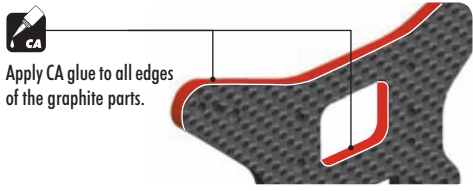
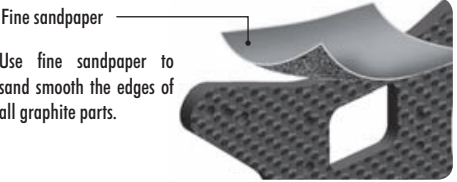
To replace the worn pins use only premium HUDY drive pins (#106053 2.5mm dia x 10mm length)

TIP GRAPHITE PARTS PREPARATION

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

Prepare all Graphite Parts:

- Front shock tower
- Rear shock tower



MANUAL STEPS ONLY FOR DIRT

1. BALL DIFFERENTIAL

DIRT

BAG

MANUAL STEPS ONLY FOR CARPET

1. GEAR DIFFERENTIAL

CARPET

BAG

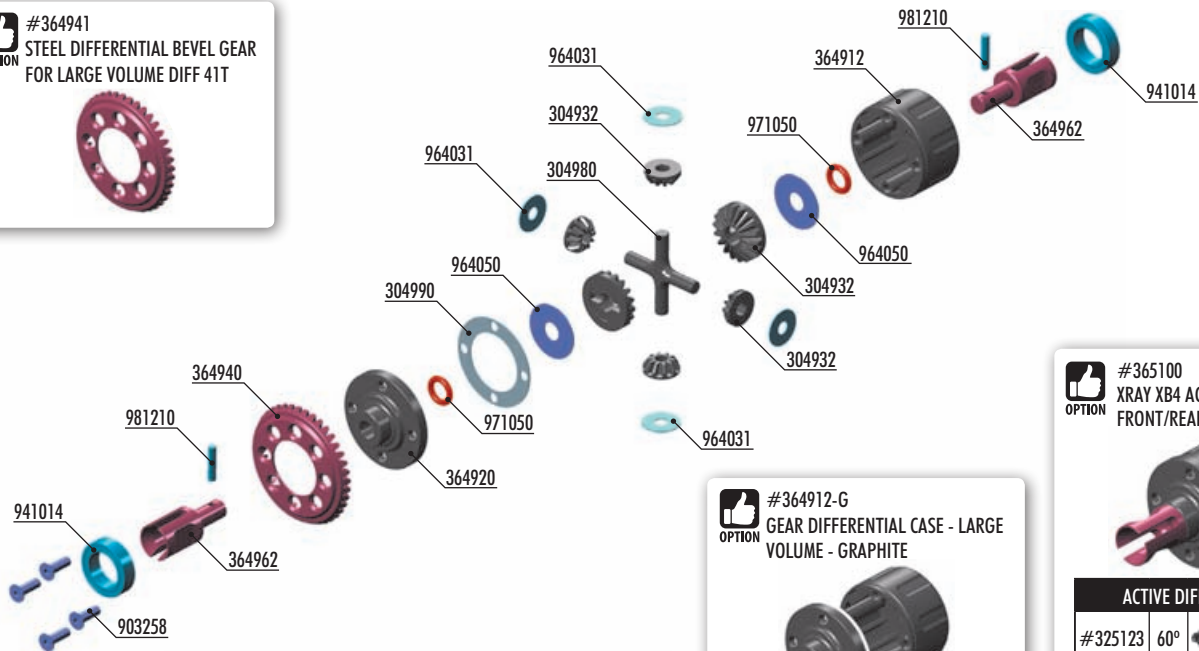
MANUAL DUAL STEPS FOR CARPET AND DIRT

3. REAR DRIVETRAIN

CARPET

DIRT

**#364941**  
STEEL DIFFERENTIAL BEVEL GEAR  
FOR LARGE VOLUME DIFF 41T



## BEVEL & SATELLITE GEARS + PINS

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



**#364912-G**  
GEAR DIFFERENTIAL CASE - LARGE  
VOLUME - GRAPHITE



**#364920-G**  
GEAR DIFFERENTIAL COVER - LARGE  
VOLUME - GRAPHITE



**#365100**  
XRAY XB4 ACTIVE DIFFERENTIAL  
FRONT/REAR - SET



## ACTIVE DIFF SEGMENTS

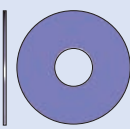
#325123	60°		OPTION
#325125	90°		INCLUDED
#325127	120°		OPTION



304932 GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)  
304980 COMPOSITE GEAR DIFF CROSS PIN  
304990 DIFF GASKET (4)  
364903 GEAR DIFFERENTIAL - LARGE VOLUME - SET  
364912 COMPOSITE GEAR DIFFERENTIAL CASE - LARGE VOLUME  
364920 COMPOSITE GEAR DIFFERENTIAL COVER - LARGE VOLUME  
364940 STEEL DIFFERENTIAL BEVEL GEAR FOR LARGE VOLUME DIFF 40T

364962 GEAR DIFF OUTDRIVE ADAPTER FOR LARGE VOLUME DIFF (2)  
903258 HEX SCREW SFH M2.5x8 (10)  
941014 BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)  
964031 WASHER S 3.5x10x0.2 (10)  
964050 WASHER S 5x15x0.3 (10)  
971050 SILICONE O-RING 5x1.5 (10)  
981210 PIN 2x10 (10)

2x



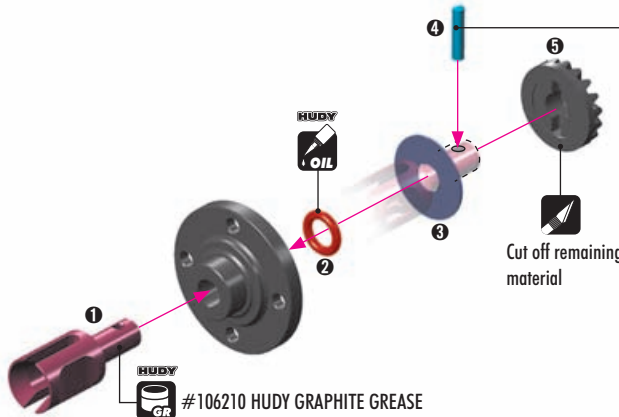
964050  
S 5x15x0.3



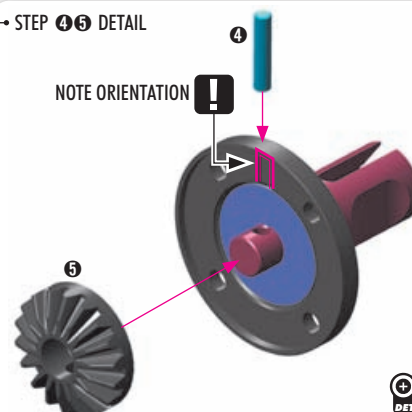
971050  
O 5x1.5



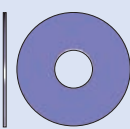
981210  
P 2x10



STEP 4 & 5 DETAIL



2x



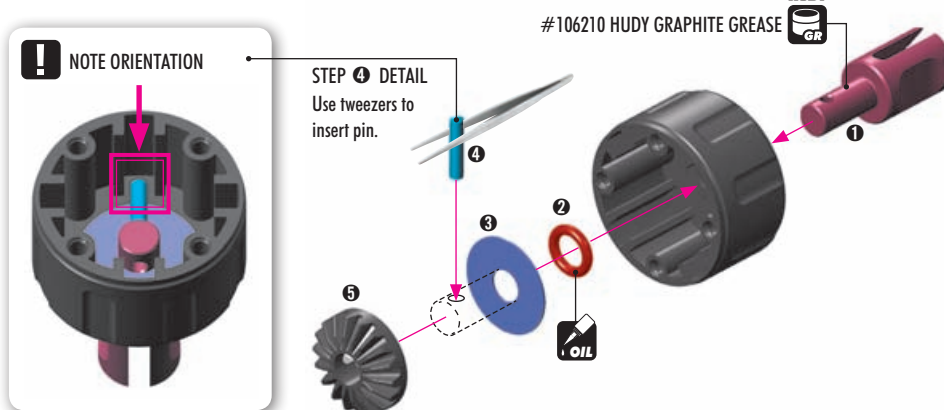
964050  
S 5x15x0.3



971050  
O 5x1.5



981210  
P 2x10

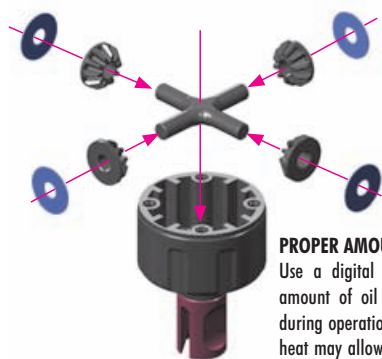


NOTE ORIENTATION

STEP 4 DETAIL  
Use tweezers to  
insert pin.



964031  
S 3.5x10x0.2

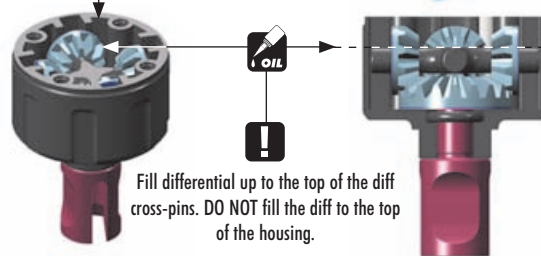


## PROPER AMOUNT OF OIL IN THE DIFFS

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  
CARPET 10.000cSt  
DIRT 7.000cSt  
Fill just above the cross-pins.

**Rear diff** Silicone oil  
CARPET 10.000cSt  
DIRT 7.000cSt  
Fill just above the cross-pins.



Fill differential up to the top of the diff cross-pins. 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 11.47g)

$$11.47g + 1.60g = 13.07g$$

2 Slowly pour oil into the diff and watch the weight. Add 1.60g of oil into the diff. The approximate weight of the diff including oil is 13.07g.

## TIPS FOR DIFFERENTIALS

TIP	FRONT DIFFERENTIAL	REAR DIFFERENTIAL	TIP
	LOW TRACTION 7.000cSt (HUDY #106470)	LOW TRACTION 7.000cSt (HUDY #106470)	
	MEDIUM-HIGH TRACTION 10.000cSt (HUDY #106510)	MEDIUM-HIGH TRACTION 10.000cSt (HUDY #106510)	
	SUPER-HIGH TRACTION 15.000cSt (HUDY #106515)	SUPER-HIGH TRACTION 15.000cSt (HUDY #106515)	
	<b>NOTE:</b> Softer oil increases steering, harder oil increases stability.	<b>NOTE:</b> Softer oil increases rear traction, harder oil increases on-power steering.	

## SET-UP BOOK

### DIFFERENTIAL OIL

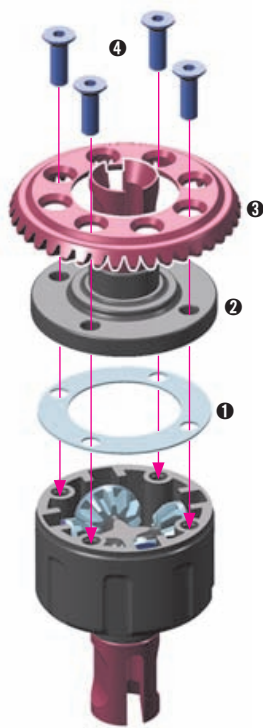


903258  
SFH M2.5x8



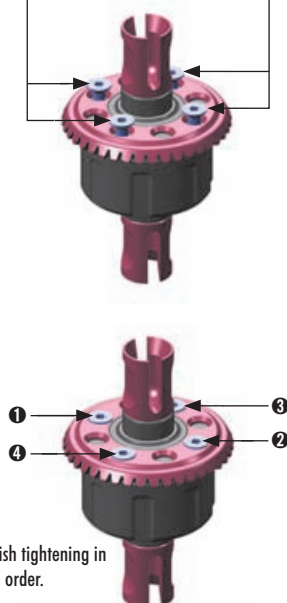
941014  
BB 10x15x4

2x



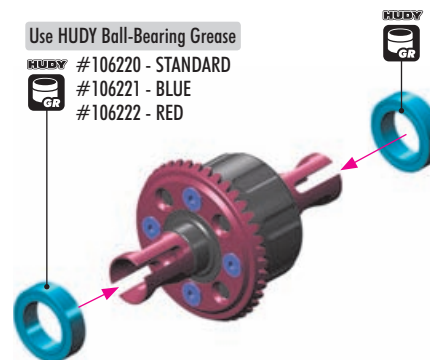
2x

Tighten the screws equally but do NOT tighten them completely.



Finish tightening in this order.

2x



Use HUDY Ball-Bearing Grease

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

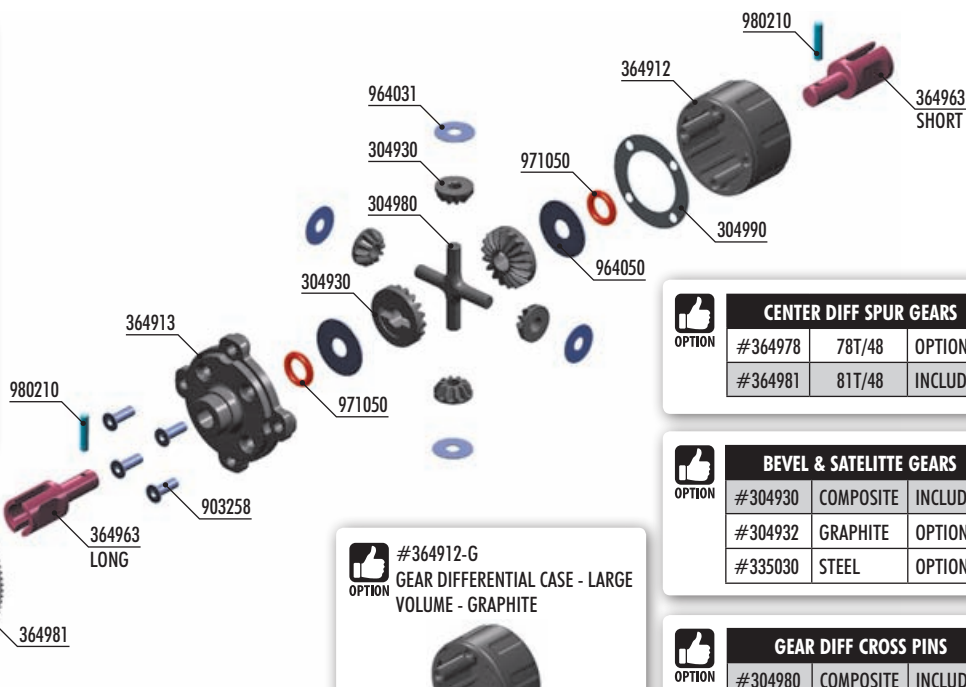


#365101 XRAY XB4 ACTIVE DIFFERENTIAL - CENTER - SET



## ACTIVE DIFF SEGMENTS

#	Angle	Image	Status
#325123	60°		OPTION
#325125	90°		INCLUDED
#325127	120°		OPTION



## CENTER DIFF SPUR GEARS

#	Ratio	Status
#364978	78T/48	OPTION
#364981	81T/48	INCLUDED



## BEVEL & SATELLITE GEARS

#	Material	Status
#304930	COMPOSITE	INCLUDED
#304932	GRAPHITE	OPTION
#335030	STEEL	OPTION



## GEAR DIFF CROSS PINS

#	Material	Status
#304980	COMPOSITE	INCLUDED
#335080	STEEL	OPTION



BAG

01.3

- 304930 COMPOSITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)
- 304980 COMPOSITE GEAR DIFF CROSS PIN
- 304990 DIFF GASKET (4)
- 364904 GEAR CENTER DIFFERENTIAL - LARGE VOLUME - SET
- 364912 COMPOSITE GEAR DIFFERENTIAL CASE - LARGE VOLUME
- 364913 COMPOSITE CENTER GEAR DIFF ADAPTER - LARGE VOLUME
- 364963 CENTER GEAR DIFF OUTDRIVE ADAPTER FOR LARGE VOLUME DIFF (1+1)
- 364981 COMPOSITE CENTER DIFF SPUR GEAR 81T / 48

- 902306 HEX SCREW SH M3x6 (10)
- 903258 HEX SCREW SFH M2.5x8 (10)
- 964031 WASHER S 3.5x10x0.2 (10)
- 964050 WASHER S 5x15x0.3 (10)
- 971050 SILICONE O-RING 5x1.5 (10)
- 980210 PIN 2x10 (10)



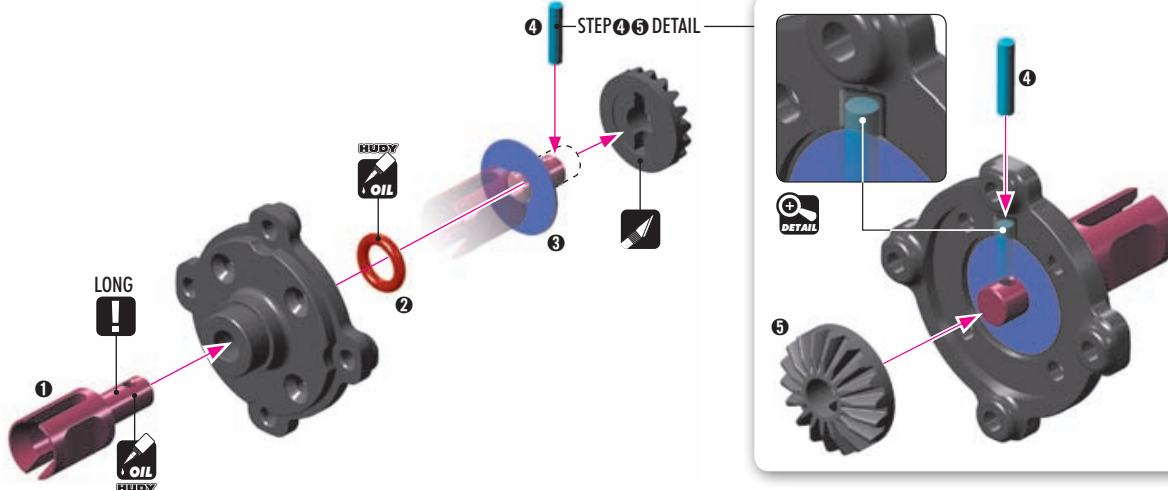
964050  
S 5x15x0.3



971050  
O 5x1.5



980210  
P 2x10



964050  
S 5x15x0.3

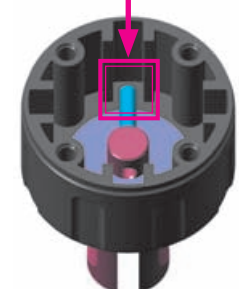


971050  
O 5x1.5

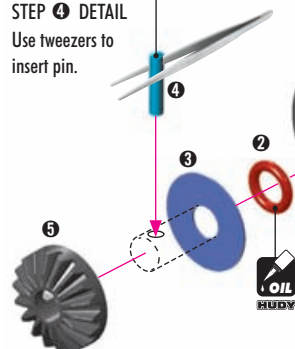


980210  
P 2x10

NOTE ORIENTATION



STEP 4 DETAIL  
Use tweezers to insert pin.



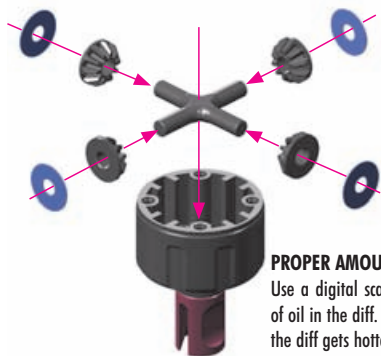
SHORT



#106210 HUDY GRAPHITE GREASE



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.



## Center diff

Silicone oil 100.000cSt  
Fill just above the cross-pins.



Fill differential up to the top of the diff cross-pins. 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 11.72g)

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



$$\text{CENTER Diff. } 11.72\text{g} + 1.50\text{g} = 13.22\text{g}$$



2 Slowly pour oil into the diff and watch the weight.

## TIP FOR CENTER DIFFERENTIAL

LOW TRACTION	50.000cSt (HUDY #106550)
MEDIUM TRACTION	100.000cSt (HUDY #106610)
HIGH TRACTION	500.000cSt (HUDY #106650)

## NOTE:

Softer oil increases steering, harder oil increases stability.

## SET-UP BOOK

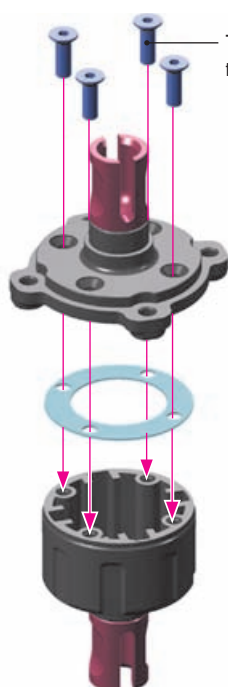
## DIFFERENTIAL OIL



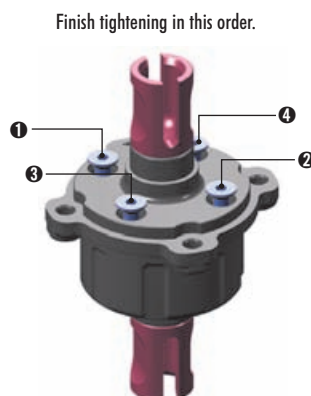
902306  
SFH M3x6



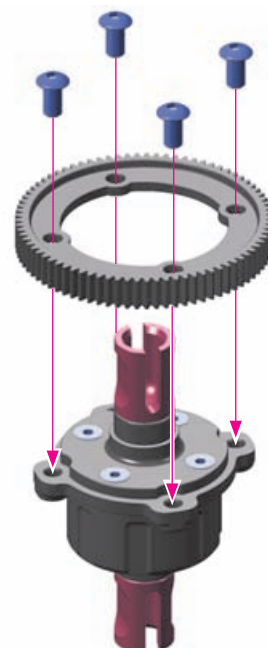
903258  
SFH M2.5x8

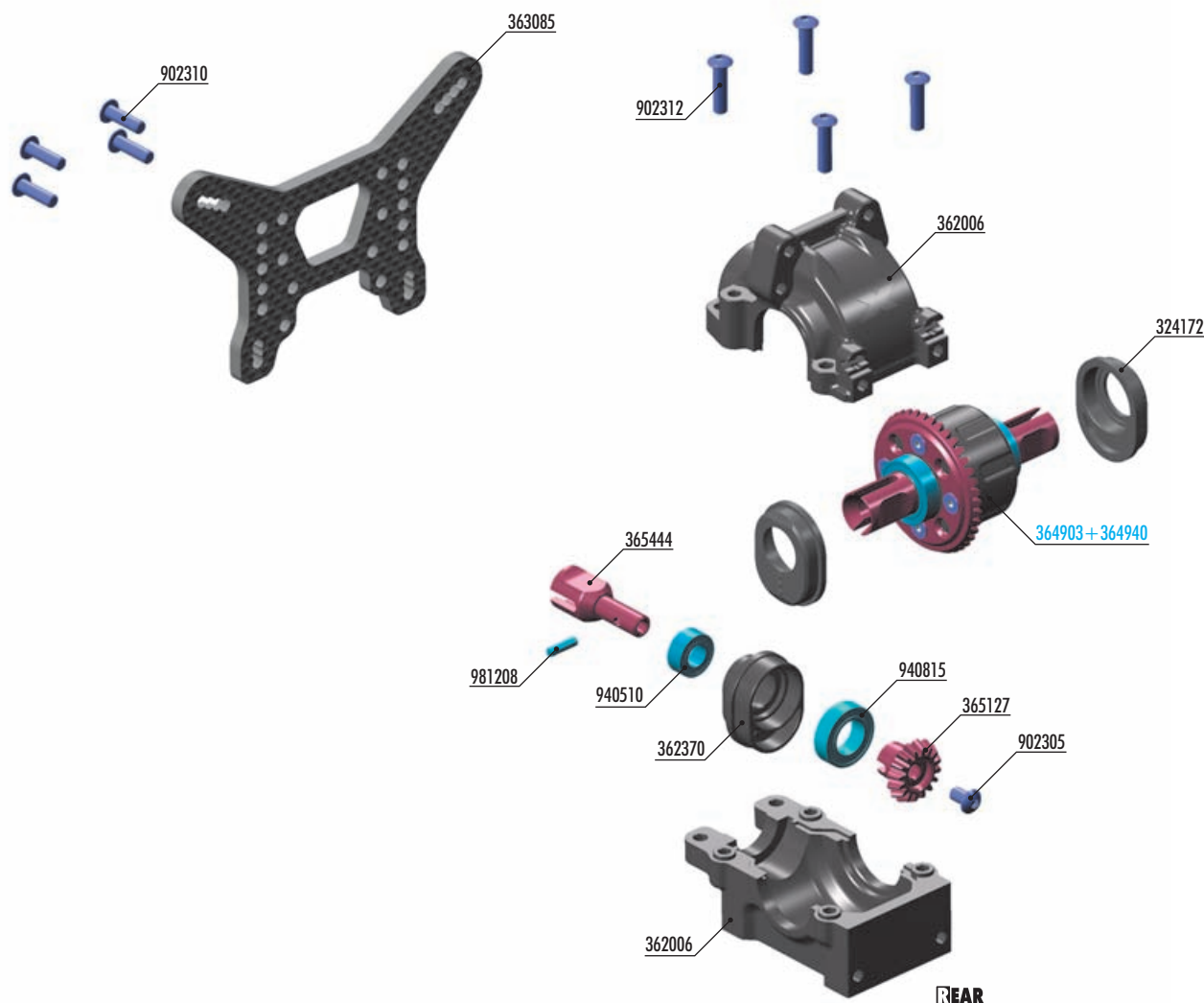


Tighten the screws equally but do NOT tighten them completely.



Finish tightening in this order.





REAR



## XRAY BALL-BEARING

#359050	5x10x4	GREASE	OPTION
#940510	5x10x4	OIL	INCLUDED
#940814	8x14x4	GREASE	OPTION
#940815	8x14x4	OIL	INCLUDED



## BALL-BEARING HUB

#324172	1 DOT	OPTION
#324172	2 DOTS	OPTION
#324172	3 DOTS	INCLUDED



## INLINE HUB - REAR

#362370	1 DOT	OPTION
#362370	2 DOTS	OPTION
#362370	3 DOTS	INCLUDED



## #365100 XRAY XB4 ACTIVE DIFFERENTIAL FRONT/REAR - SET



### ACTIVE DIFF SEGMENTS

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

BAG

02.1

324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB (2)  
 362006 DIFF BULKHEAD - HORIZONTAL SPLIT DESIGN (HS) - FRONT/REAR - SET  
 362370 INLINE HUB FOR BEVEL DRIVE GEAR - REAR HS BULKHEAD - 1 + 2 + 3 DOTS  
 363085 GRAPHITE SHOCK TOWER FOR HS BULKHEAD - REAR - 3.5MM  
 365127 STEEL BEVEL DRIVE GEAR - FOR HS BULKHEAD - CNC-MACHINED - 16T  
 365444 CENTRAL DOGBONE SHAFT UNIVERSAL JOINT - HUDY SPRING STEEL™

902305 HEX SCREW SH M3x5 (10)  
 902310 HEX SCREW SH M3x10 (10)  
 902312 HEX SCREW SH M3x12 (10)  
 940510 BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2)  
 940815 BALL-BEARING 8x14x4 RUBBER SEALED - OIL (2)  
 981208 PIN 2x8 (10)

364903 GEAR DIFFERENTIAL - LARGE VOLUME - SET  
 364940 STEEL DIFFERENTIAL BEVEL GEAR FOR LARGE VOLUME DIFF 40T





902305  
SH M3x5



940510  
BB 5x10x4



940815  
BB 8x14x4



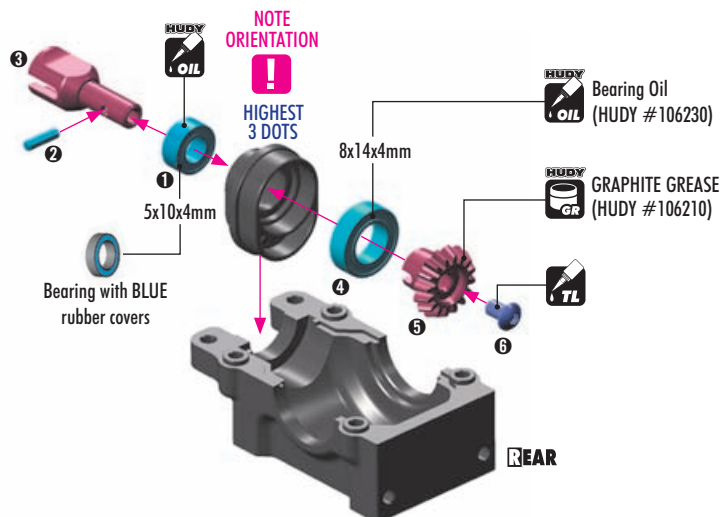
981208  
P 2x8



902312  
SH M3x12



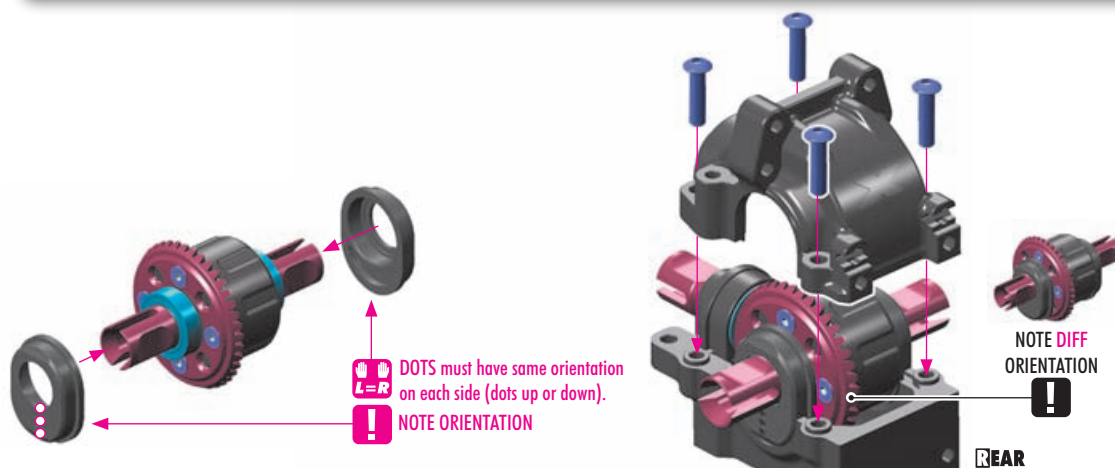
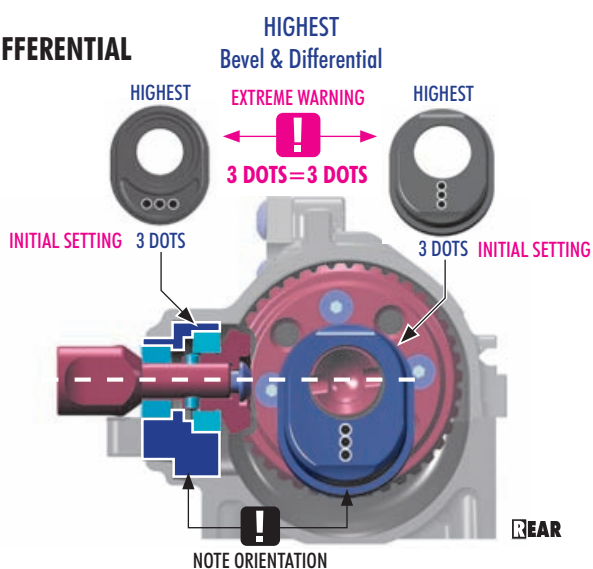
902310  
SH M3x10



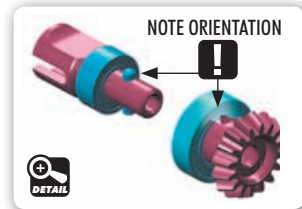
CARPET

## BEVEL DRIVE GEAR & DIFFERENTIAL HEIGHT ADJUSTMENT

INITIAL SETTING



**TIP** Follow the TECH TIP on page 5 to prepare graphite parts.



**LOWEST**

**INITIAL SETTING 3 DOTS**

**EXTREME WARNING**

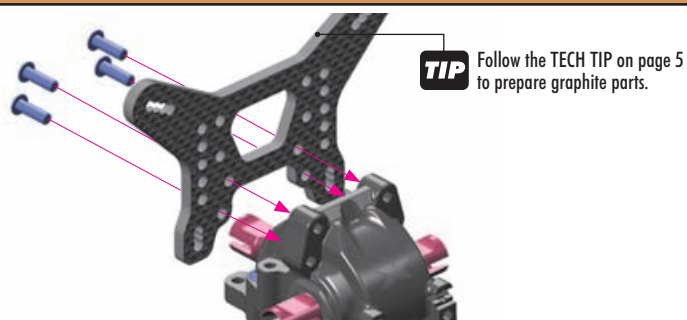
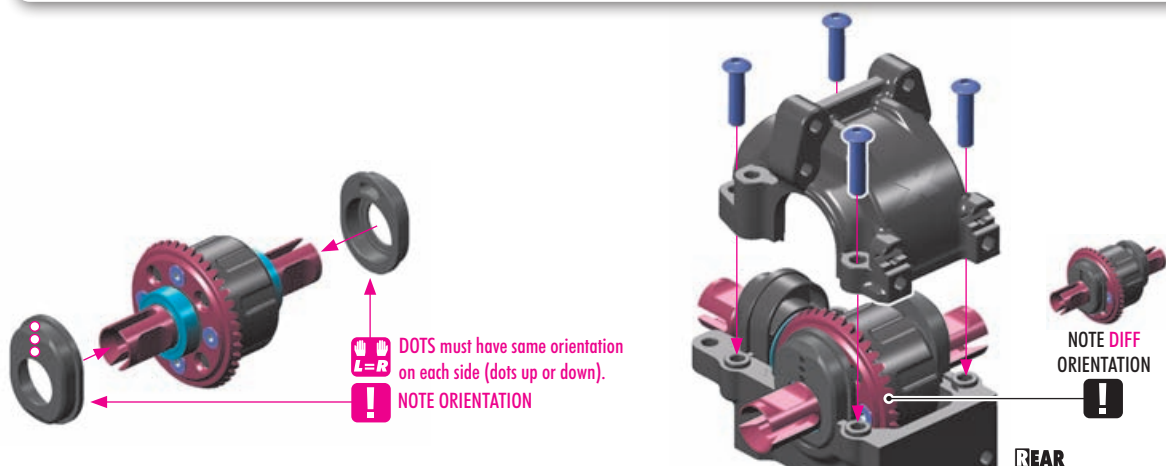
**3 DOTS INITIAL SETTING**

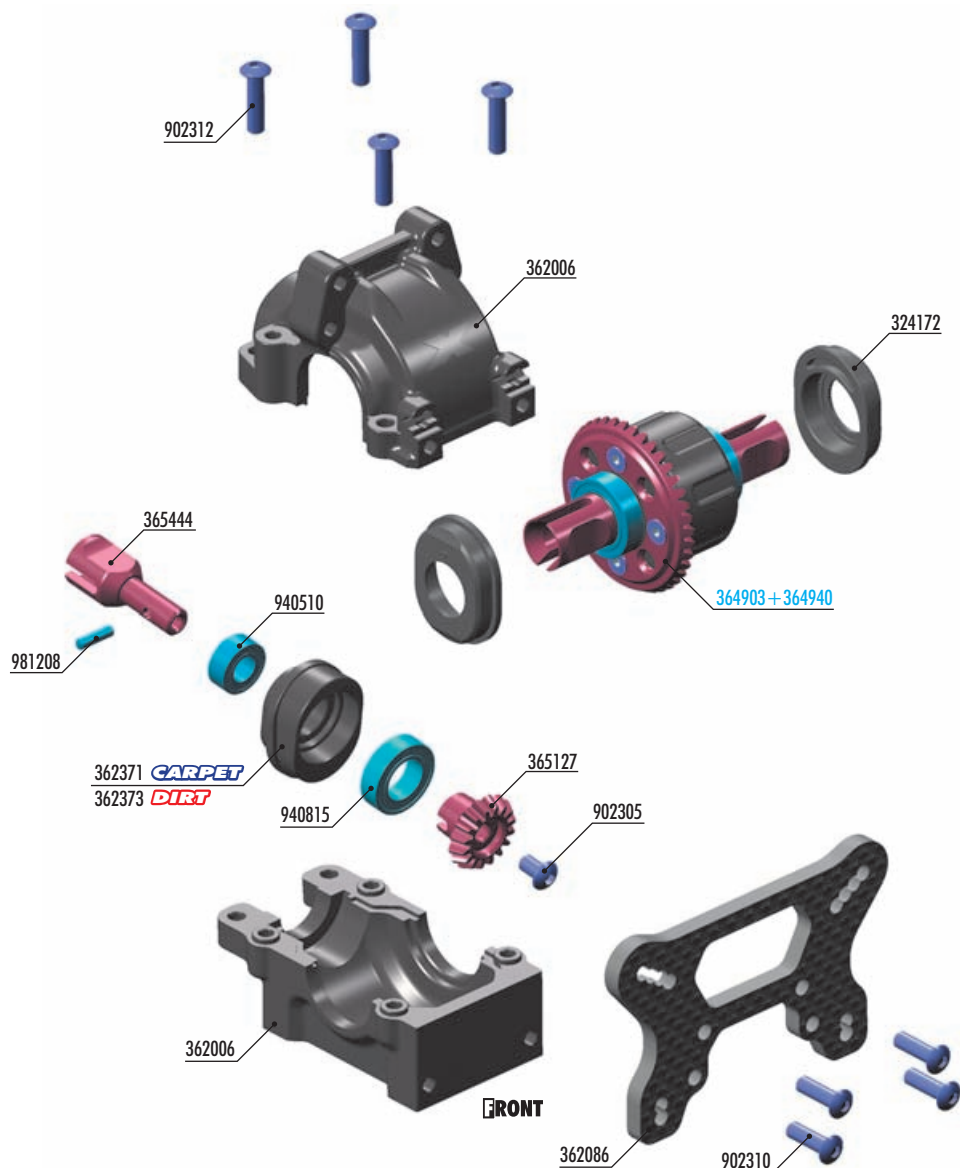
**3 DOTS=3 DOTS**

**LOWEST**

**NOTE ORIENTATION**

**REAR**





**#365100**  
XRAY XB4 ACTIVE DIFFERENTIAL  
FRONT/REAR - SET



## ACTIVE DIFF SEGMENTS

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

BALL-BEARING HUB			
#324172	1 DOT	INCLUDED	
#324172	2 DOTS	OPTION	
#324172	3 DOTS	INCLUDED	

ANGLE HUB - FRONT			
#362371	1 DOT	INCLUDED	
#362372	2 DOTS	OPTION	
#362373	3 DOTS	INCLUDED	

XRAY BALL-BEARING			
#359050	5x10x4	GREASE	OPTION
#940510	5x10x4	OIL	INCLUDED
#940814	8x14x4	GREASE	OPTION
#940815	8x14x4	OIL	INCLUDED

## BAG

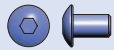
02.2

324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB (2)  
362006 DIFF BULKHEAD BLOCK SET  
362086 GRAPHITE SHOCK TOWER FOR HS BULKHEAD - FRONT - 3.5MM  
362371 ANGLED HUB FOR BEVEL DRIVE GEAR - FRONT HS BULKHEAD - 1 DOT  
362373 ANGLED HUB FOR BEVEL DRIVE GEAR - FRONT HS BULKHEAD - 3 DOTS  
365127 STEEL BEVEL DRIVE GEAR - FOR HS BULKHEAD - CNC-MACHINED - 16T  
365444 CENTRAL DOGBONE SHAFT UNIVERSAL JOINT - HUDY SPRING STEEL™

902305 HEX SCREW SH M3x5 (10)  
902310 HEX SCREW SH M3x10 (10)  
902312 HEX SCREW SH M3x12 (10)  
940510 BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2)  
940815 BALL-BEARING 8x14x4 RUBBER SEALED - OIL (2)  
981208 PIN 2x8 (10)

364903 GEAR DIFFERENTIAL - LARGE VOLUME - SET  
364940 STEEL DIFFERENTIAL BEVEL GEAR FOR LARGE VOLUME DIFF 40T





902305  
SH M3x5



940510  
BB 5x10x4



940815  
BB 8x14x4



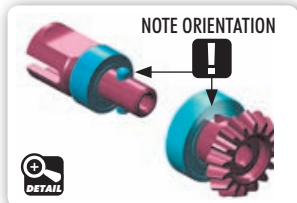
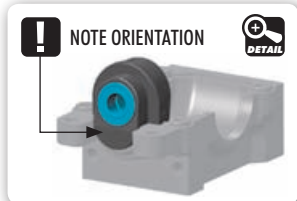
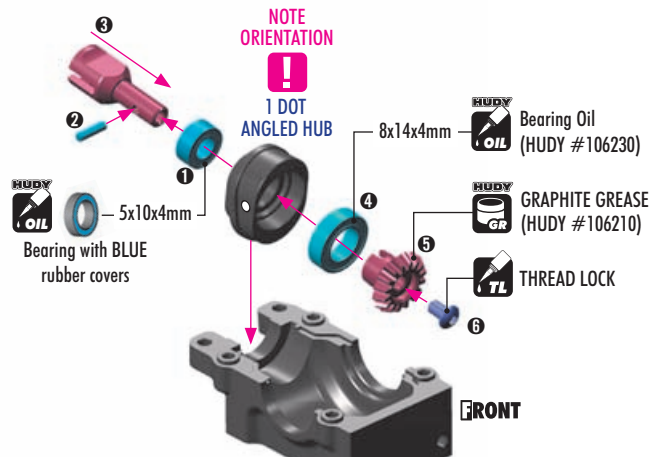
981208  
P 2x8



902312  
SH M3x12

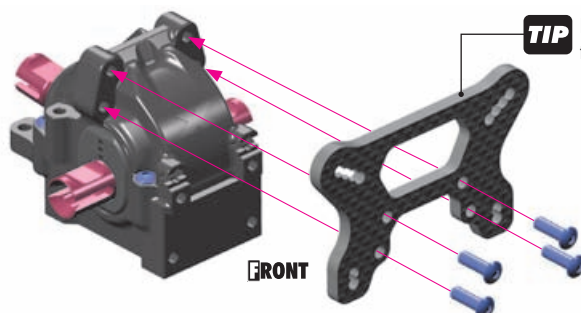
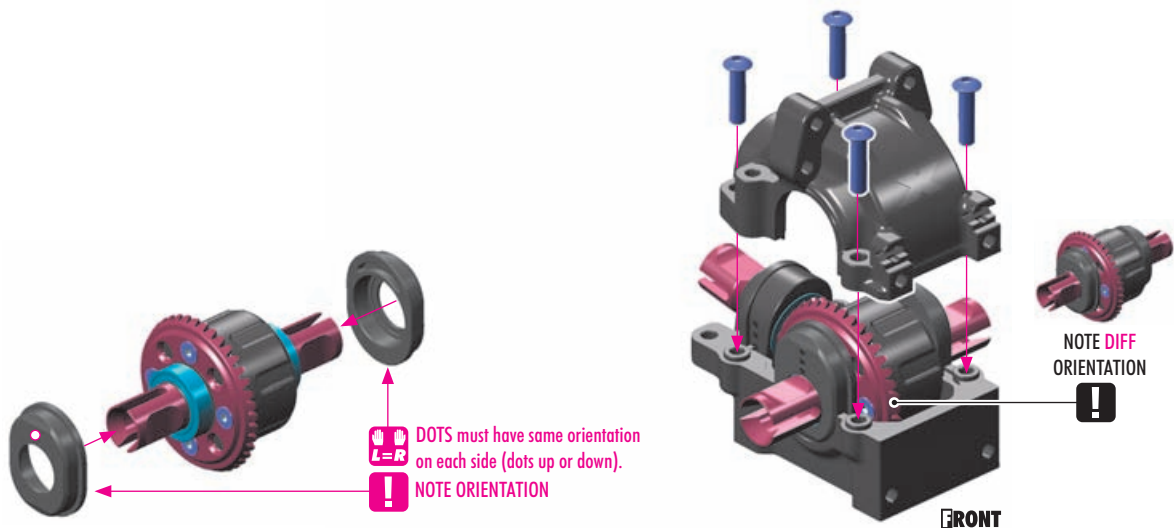
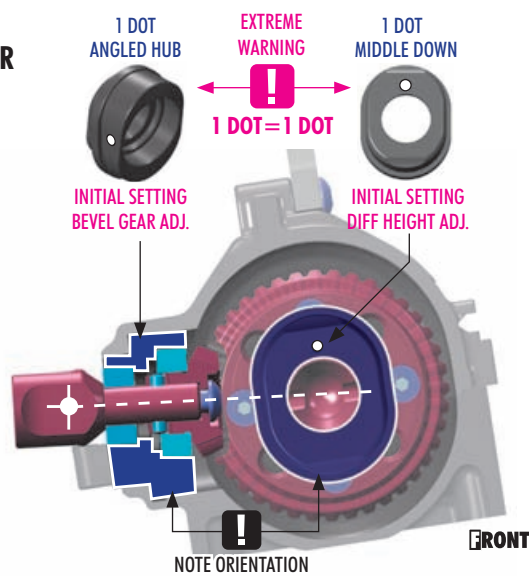


902310  
SH M3x10



CARPET

## REAR BEVEL DRIVE GEAR & DIFFERENTIAL HEIGHT ADJUSTMENT





902305  
SH M3x5



940510  
BB 5x10x4



940815  
BB 8x14x4



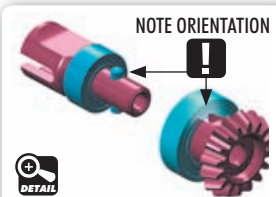
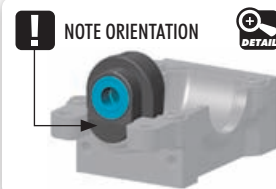
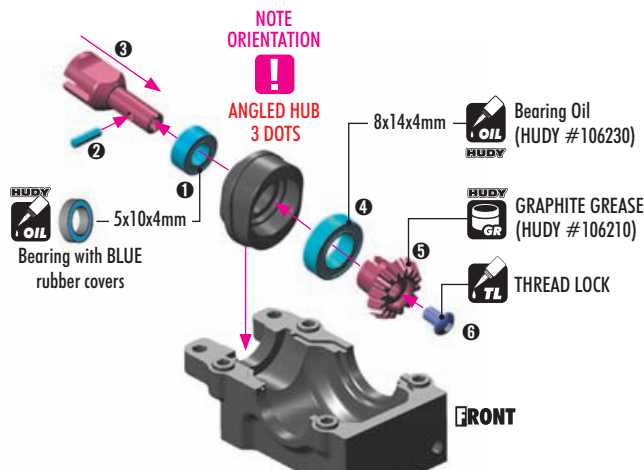
981208  
P 2x8



902312  
SH M3x12

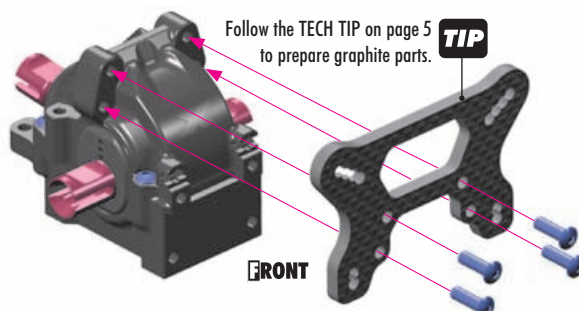
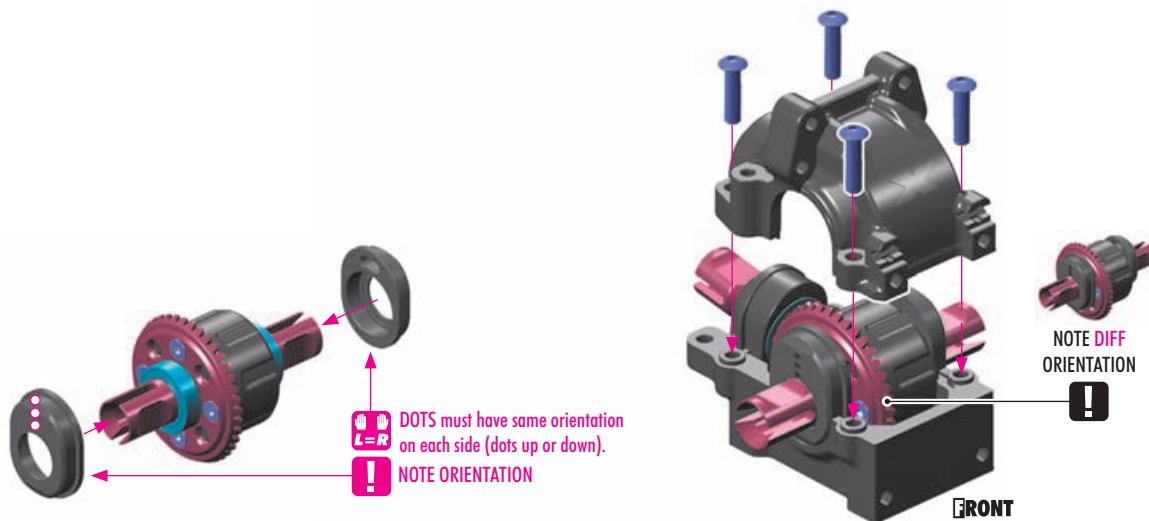
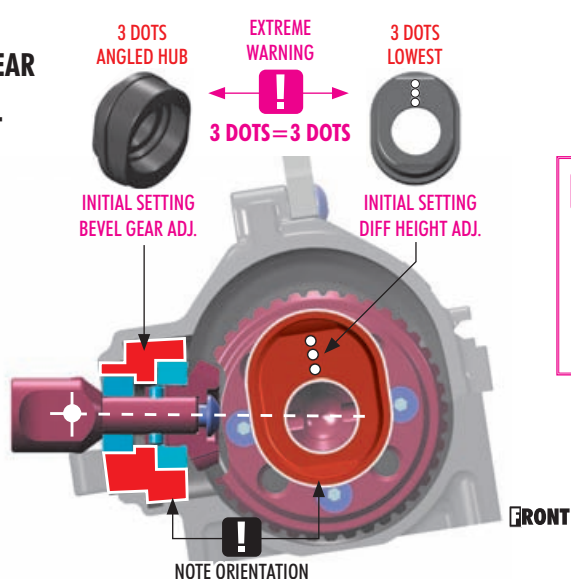


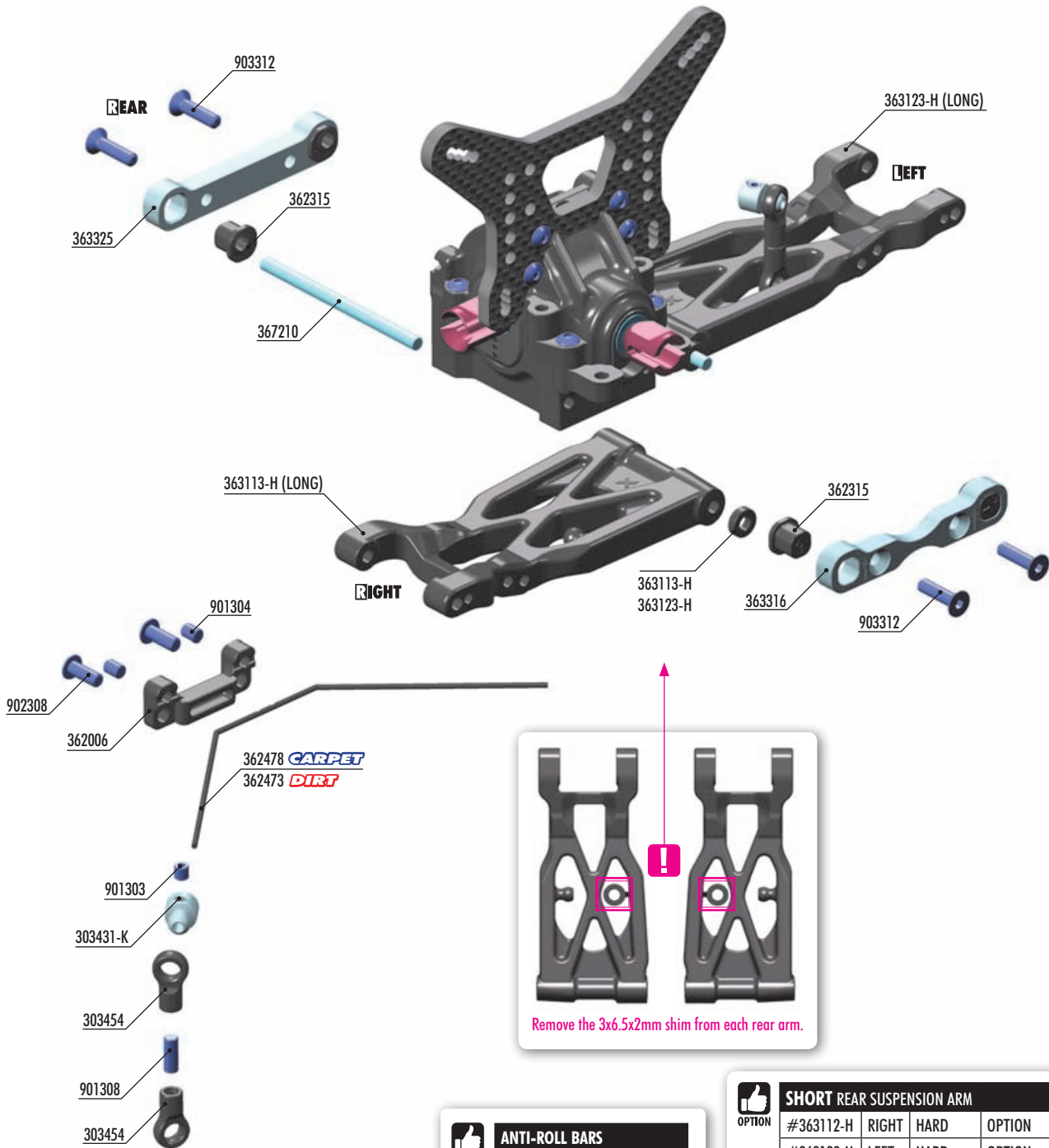
902310  
SH M3x10



**DIRT**

## REAR BEVEL DRIVE GEAR & DIFFERENTIAL HEIGHT ADJUSTMENT





## ANTI-ROLL BARS

#	THICKNESS	STATUS
#362470	1.0mm	OPTION
#362471	1.1mm	OPTION
#362472	1.2mm	OPTION
#362473	1.3mm	INCLUDED
#362474	1.4mm	OPTION
#362476	1.6mm	OPTION
#362478	1.8mm	INCLUDED
#362480	2.0mm	OPTION



## SHORT REAR SUSPENSION ARM

#	ARM	MATERIAL	STATUS
#363112-H	RIGHT	HARD	OPTION
#363122-H	LEFT	HARD	OPTION
#363112-G	RIGHT	GRAPHITE	OPTION
#363122-G	LEFT	GRAPHITE	OPTION



## LONG REAR SUSPENSION ARM

#	ARM	MATERIAL	STATUS
#363113-H	RIGHT	HARD	INCLUDED
#363123-H	LEFT	HARD	INCLUDED
#363113-G	RIGHT	GRAPHITE	OPTION
#363123-G	LEFT	GRAPHITE	OPTION

## BAG

03

303431-K	ALU 4.9MM BALL END - BLACK (2)
303454	BALL JOINT 4.9MM - OPEN (4)
362006	DIFF BULKHEAD BLOCK SET
362315	ECCENTRIC BUSHING SET (2)
362473	ANTI-ROLL BAR 1.3 MM
362478	ANTI-ROLL BAR 1.8 MM
363113-H	COMPOSITE LONG SUSPENSION ARM REAR LOWER RIGHT - HARD
363123-H	COMPOSITE LONG SUSPENSION ARM REAR LOWER LEFT - HARD
363316	ALU SUSPENSION HOLDER FOR HS BULKHEAD - REAR-FRONT
363325	ALU SUSPENSION HOLDER 2° FOR HS BULKHEAD - REAR-REAR

367210	SUSPENSION PIVOT PIN (2)
901303	HEX SCREW SB M3x3 (10)
901304	HEX SCREW SB M3x4 (10)
901308	HEX SCREW SB M3x8 (10)
902308	HEX SCREW SH M3x8 (10)
903312	HEX SCREW SFH M3x12 (10)

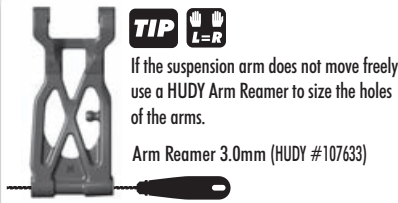
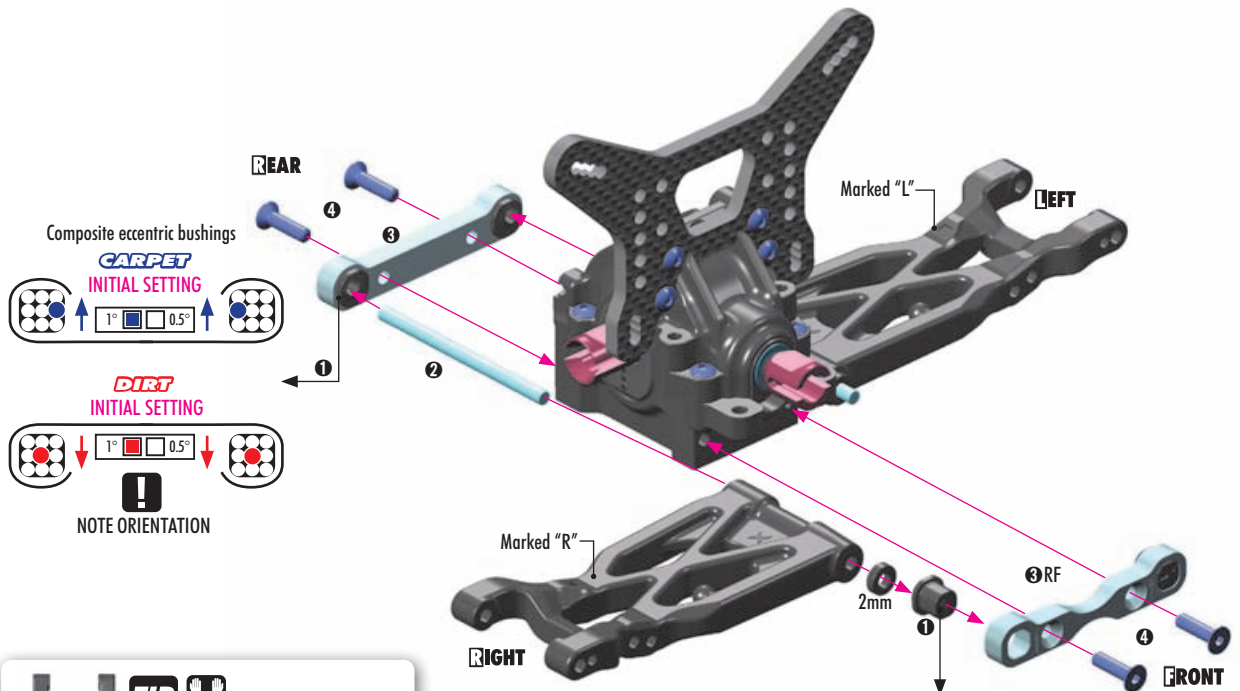


## 10

From Rear Arm  
SHIM 3x6.5x2



903312  
SFH M3x12



## SHORT REAR SUSPENSION ARM

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

## LONG REAR SUSPENSION ARM

#363113-H	RIGHT	HARD	INCLUDED
#363123-H	LEFT	HARD	INCLUDED
#363113-G	RIGHT	GRAPHITE	OPTION
#363123-G	LEFT	GRAPHITE	OPTION



**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.

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

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

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

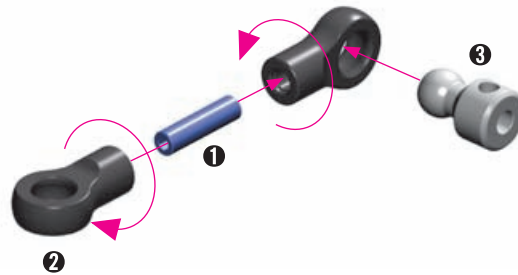
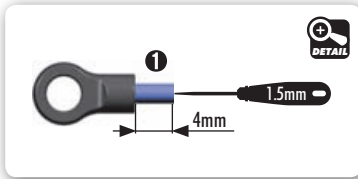
The tables describe the amounts of adjustment using the center and outside positions of the eccentric bushings. The middle position eccentric bushings allow for finer adjustment increments.

TOE-IN		(°)
RR	RF	
		= 2°
		= 3°
		= 1°
		= 1°
		= 2°
		= 0°
		= 3°
		= 4°
		= 2°



901308  
SB M3x8

2x L=R



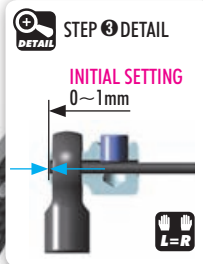
901303  
SB M3x3



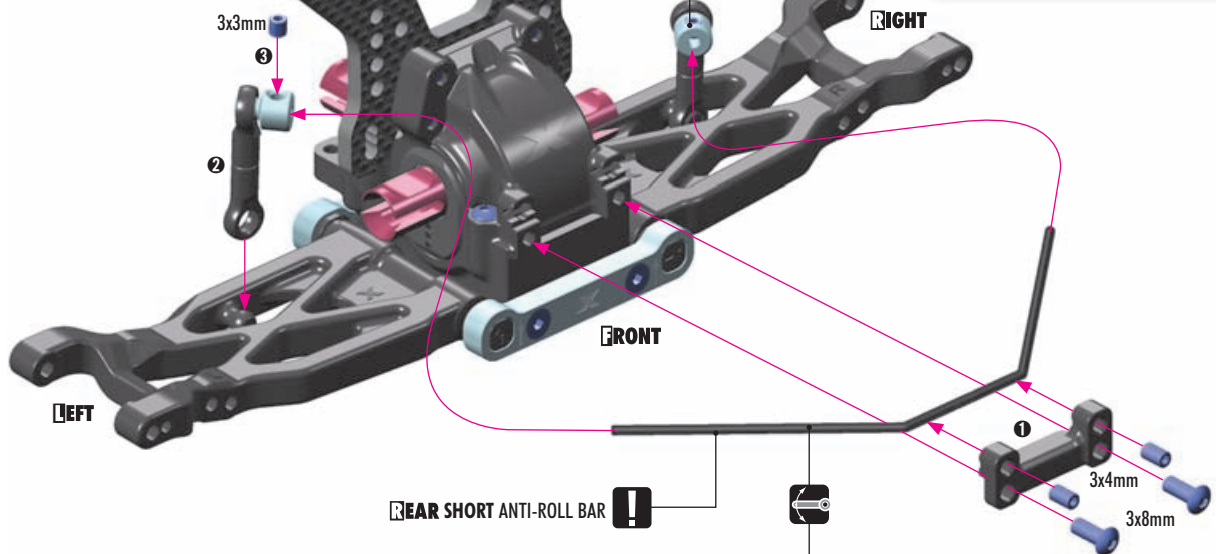
901304  
SB M3x4



902308  
SH M3x8

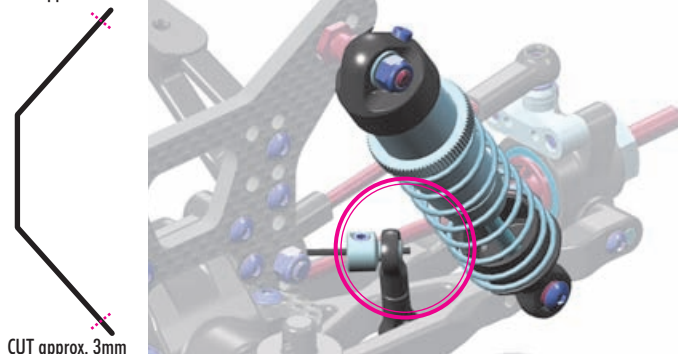


ANTI-ROLL BARS		
#362470	1.0mm	OPTION
#362471	1.1mm	OPTION
#362472	1.2mm	OPTION
#362473	1.3mm	INCLUDED
#362474	1.4mm	OPTION
#362476	1.6mm	OPTION
#362478	1.8mm	INCLUDED
#362480	2.0mm	OPTION

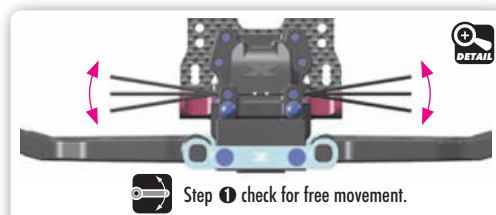
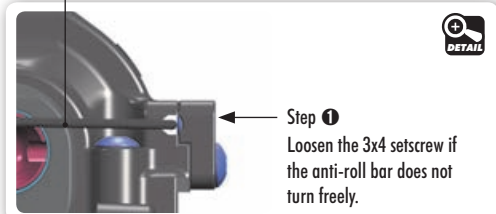


**!** In case the anti-roll bar wire is long and will touch the shock absorber then you have to cut approximately 3mm from each end of the wire.

CUT approx. 3mm

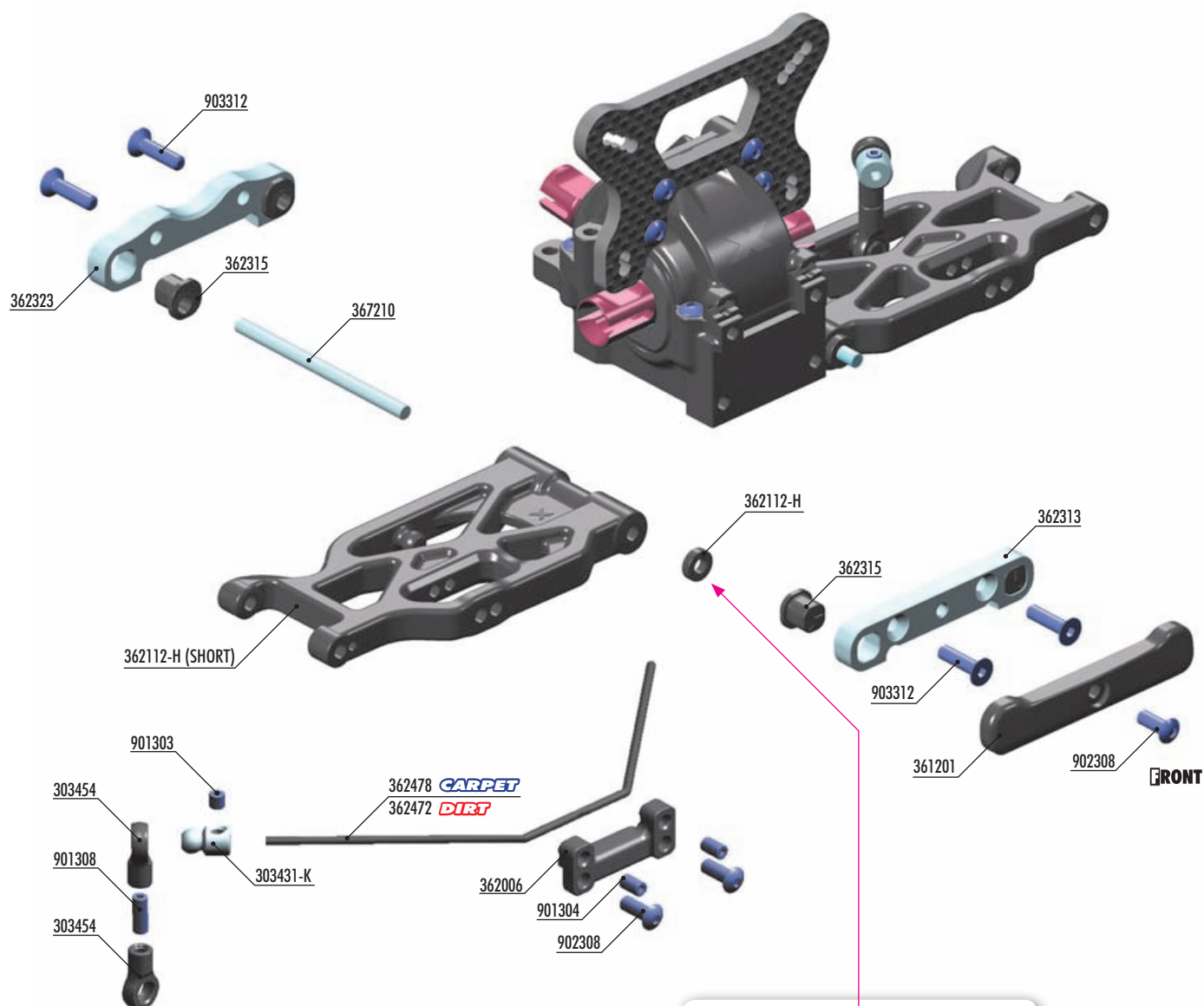


CUT approx. 3mm



SET-UP BOOK

ANTI-ROLL BAR



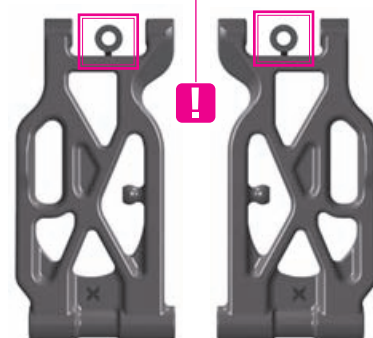
ANTI-ROLL BARS			
#362470	1.0mm	OPTION	
#362471	1.1mm	OPTION	
#362472	1.2mm	INCLUDED	
#362473	1.3mm	OPTION	
#362474	1.4mm	OPTION	
#362476	1.6mm	OPTION	
#362478	1.8mm	INCLUDED	
#362480	2.0mm	OPTION	



SHORT FRONT SUSPENSION ARM			
#362112	MEDIUM	OPTION	
#362112-H	HARD	INCLUDED	
#362112-G	GRAPHITE	OPTION	



LONG FRONT SUSPENSION ARM			
#362113-H	HARD	OPTION	
#362113-G	GRAPHITE	OPTION	



Remove the 3x6.5x2mm shim from each front arm.

BAG

03

303431-K	ALU 4.9MM BALL END - BLACK (2)
303454	BALL JOINT 4.9MM - OPEN (4)
361201	COMPOSITE FRONT BUMPER - ONE HOLE
362006	DIFF BULKHEAD - HORIZONTAL SPLIT DESIGN (HS) - FRONT/REAR - SET
362112-H	COMPOSITE SUSPENSION ARM FRONT LOWER - HARD
362313	ALU LOWER SUSP. HOLDER FOR HS BULKHEAD - FRONT-FRONT
362315	ECCENTRIC BUSHING SET (2)
362323	ALU LOWER SUSP. HOLDER FOR HS BULKHEAD - FRONT-REAR
362472	ANTI-ROLL BAR 1.2 MM
362478	ANTI-ROLL BAR 1.8 MM
367210	SUSPENSION PIVOT PIN (2)

901303	HEX SCREW SB M3x3 (10)
901304	HEX SCREW SB M3x4 (10)
901308	HEX SCREW SB M3x8 (10)
902308	HEX SCREW SH M3x8 (10)
903312	HEX SCREW SFH M3x12 (10)

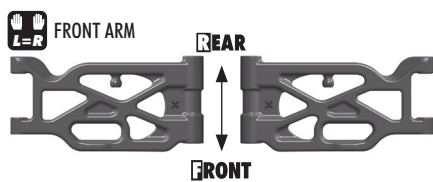
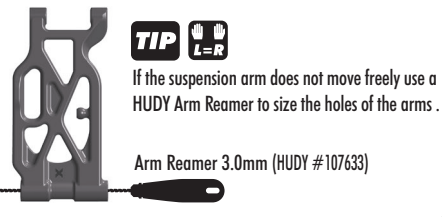
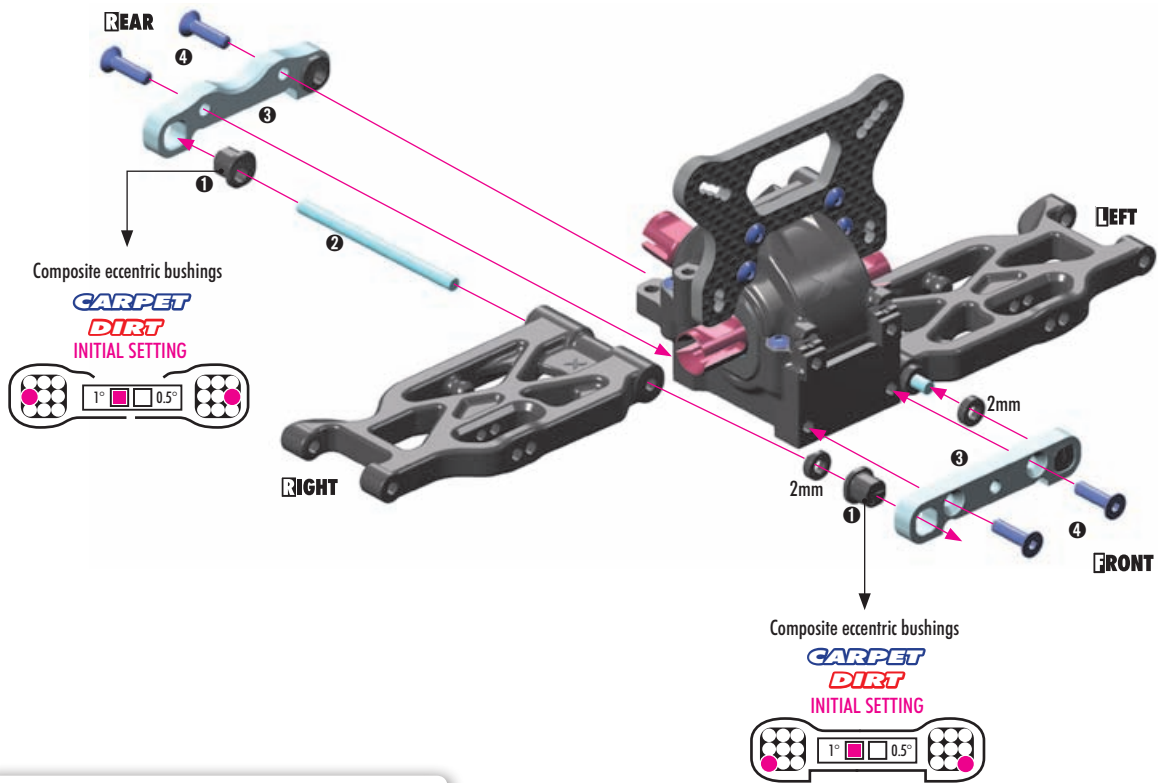


## 10

From Front Arm  
SHIM 3x6.5x2



903312  
SFH M3x12



OPTION	SHORT FRONT SUSPENSION ARM			
	#362112	MEDIUM	OPTION	
	#362112-H	HARD	INCLUDED	
	#362112-G	GRAPHITE	OPTION	
OPTION	LONG FRONT SUSPENSION ARM			
	#362113-H	HARD	OPTION	
	#362113-G	GRAPHITE	OPTION	

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	(°)
		= 7°
		= 6°
		= 8°
		= 6°
		= 5°
		= 7°
		= 8°
		= 7°
		= 9°

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.

TOTAL CASTER=C-HUB CASTER+KICK UP						
C-HUB CASTER	KICK-UP					
	6°	7°	8°	9°	10°	
6°	12°	13°	14°	15°	16°	
9°	15°	16°	17°	18°	19°	

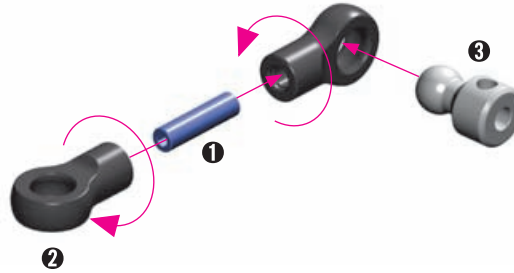
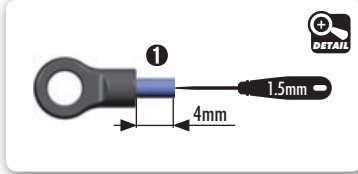
Caster is the angle between the steering pivot axis and the vertical plane. Caster is affected not only by the C-Hub caster, but also by the front kick-up angle relative to the flat chassis bottom. The table indicates how kick up angle effects total caster.

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

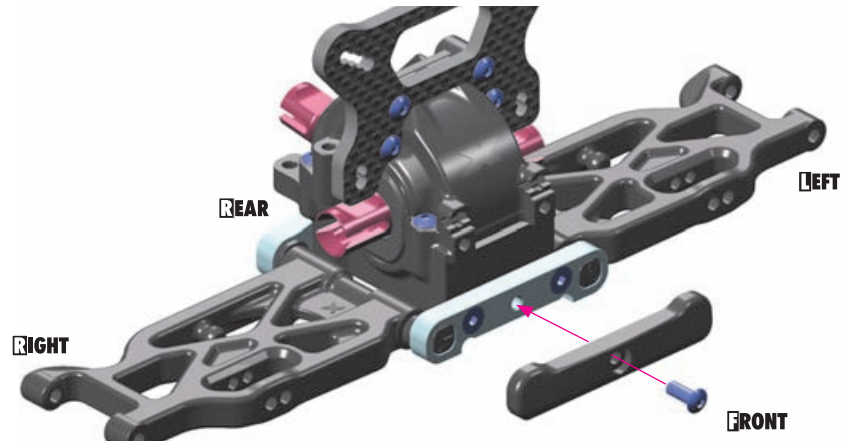


901308  
SB M3x8

2x  
L=R



902308  
SH M3x8



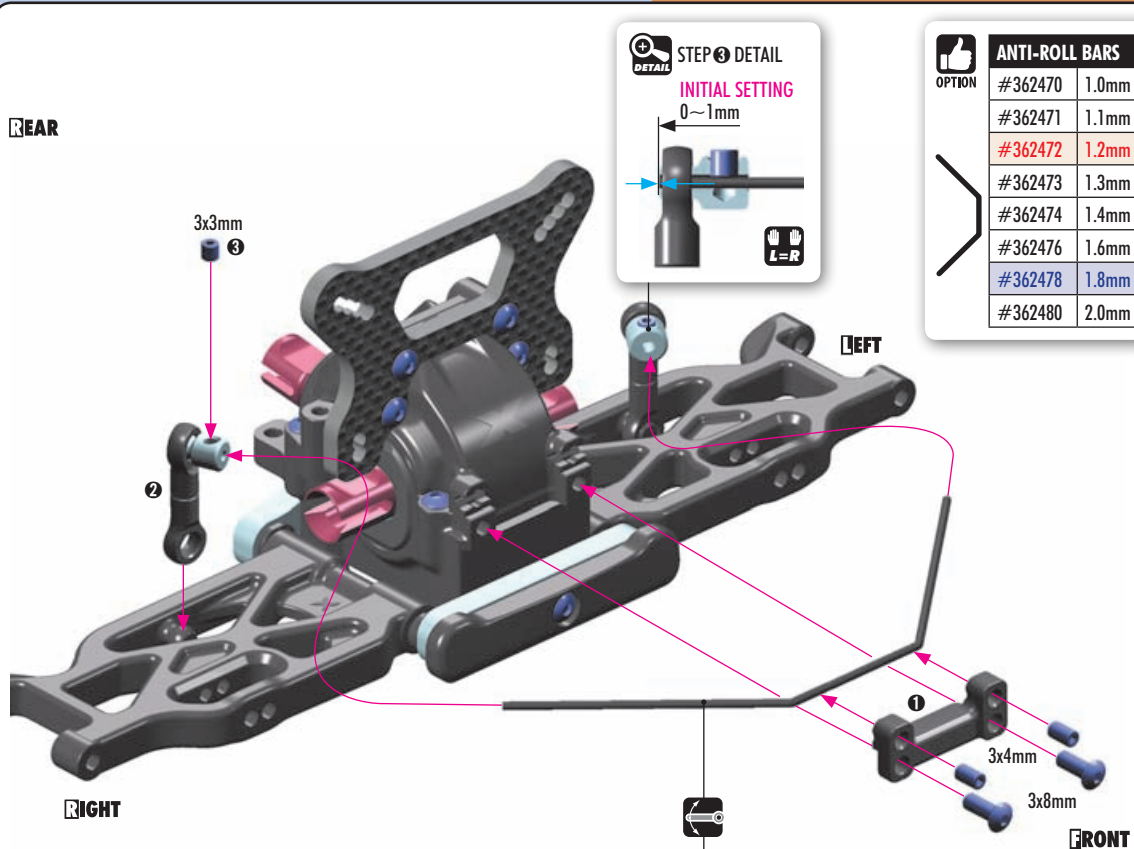
901303  
SB M3x3



901304  
SB M3x4



902308  
SH M3x8

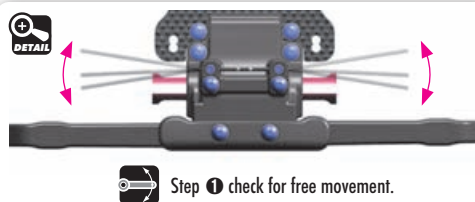


## ANTI-ROLL BARS

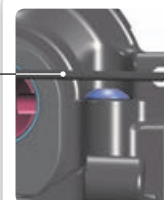
OPTION			
#362470	1.0mm	OPTION	
#362471	1.1mm	OPTION	
#362472	1.2mm	INCLUDED	
#362473	1.3mm	OPTION	
#362474	1.4mm	OPTION	
#362476	1.6mm	OPTION	
#362478	1.8mm	INCLUDED	
#362480	2.0mm	OPTION	

SET-UP  
BOOK

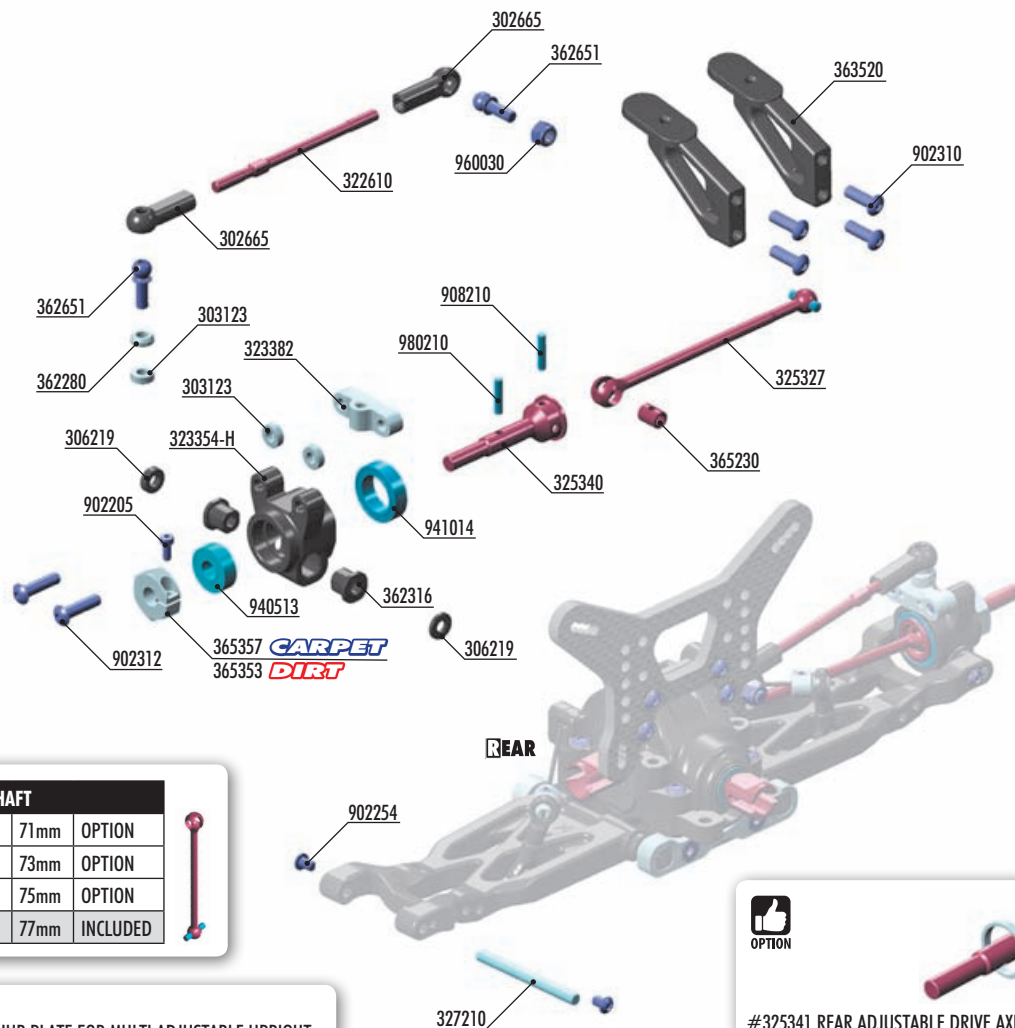
ANTI-ROLL BAR



Step 1 check for free movement.



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



## DRIVE SHAFT

#325323	71mm	OPTION
#325326	73mm	OPTION
#325324	75mm	OPTION
#325327	77mm	INCLUDED



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



## XRAY BALL-BEARING

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



## REAR UPRIGHTS

#323354-H	COMPOSITE - H	INCLUDED
#323354-G	COMPOSITE - G	OPTION
#323355	ALU	OPTION



## ALU CONICAL SHIM

#362280	SILVER	INCLUDED
#362280-K	BLACK	OPTION
#362280-O	ORANGE	OPTION



## ALU NUTS M3

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



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



## WHEEL HUBS 12MM

#365360	+4.5mm	6 SLOTS	OPTION
#365359	+3.75mm	5 SLOTS	OPTION
#365358	+3.0mm	4 SLOTS	OPTION
#365357	+2.25mm	3 SLOTS	INCLUDED
#365356	+1.5mm	2 SLOTS	OPTION
#365355	+0.75mm	1 SLOT	OPTION
#365353	0mm	0 SLOTS	INCLUDED
#365354	-0.75mm	Lightw.	OPTION
#365361	-1.25mm	Lightw.	OPTION



## WHEEL HUBS 14MM

#365352	+0.75mm	OPTION
#365350	0mm	OPTION
#365351	-0.75mm	OPTION



BAG

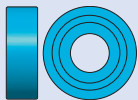
04

302665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)  
303123 ALU SHIM 3x6x2.0MM (10)  
306219 CCOMPOSITE SET OF SERVO SHIMS (4)  
322610 ADJ. TURNBUCKLE M3 L/R 55 MM - SPRING STEEL (2)  
323354-H COMPOSITE UPRIGHT REAR - HARD  
323382 ALU REAR HUB PLATE FOR MULTI ADJ. UPRIGHT - 1-HOLE  
325327 REAR DRIVE SHAFT 77MM WITH 2.5MM PIN - SPRING STEEL™  
325340 REAR DRIVE AXLE LB - HUDY SPRING STEEL™  
327210 FRONT SUSPENSION PIVOT PIN (2)  
362280 ALU CONICAL SHIM 3x6x2.0MM (10)  
362316 OPEN ECCENTRIC BUSHING SET (2)  
362651 BALL END 4.9MM WITH THREAD 8MM (2)  
363520 REAR WING POST - V2 (2)

365230 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™  
365353 ALU WHEEL HUB 12MM (2)  
365357 ALU WHEEL HUB 12MM - OFFSET "+2.25MM" (2)

902205 HEX SCREW SH M2x5 (10)  
902254 HEX SCREW SH M2.5x4 (10)  
902310 HEX SCREW SH M3x10 (10)  
902312 HEX SCREW SH M3x12 (10)  
940513 BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2)  
941014 BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2)  
960030 NUT M3 (10)  
980210 PIN 2x10 (10)





940513  
BB 5x12x4



941014  
BB 10x15x4

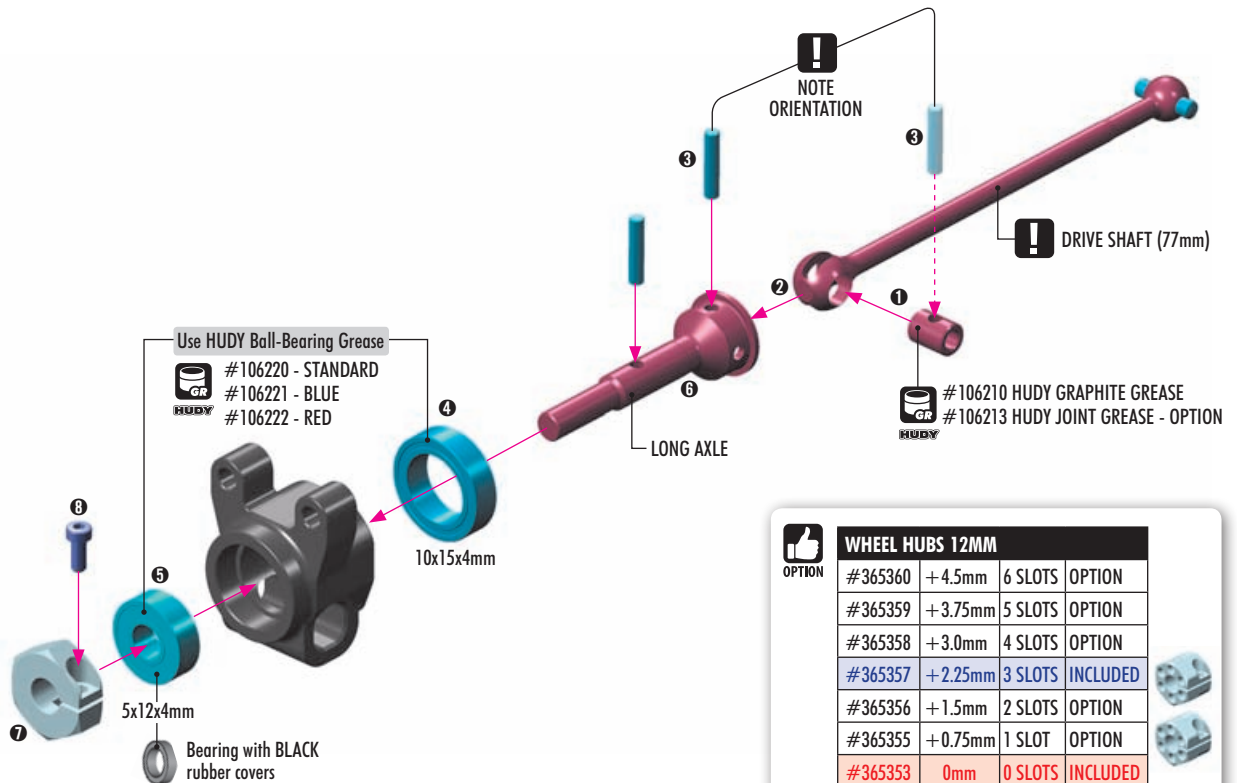


980210  
P 2x10



902205  
SH M2x5

2x L=R



## DRIVE SHAFT

#325323	71mm	OPTION
#325326	73mm	OPTION
#325324	75mm	OPTION
#325327	77mm	INCLUDED



## XRAY BALL-BEARING

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



## WHEEL HUBS 12MM

#365360	+4.5mm	6 SLOTS	OPTION
#365359	+3.75mm	5 SLOTS	OPTION
#365358	+3.0mm	4 SLOTS	OPTION
#365357	+2.25mm	3 SLOTS	INCLUDED
#365356	+1.5mm	2 SLOTS	OPTION
#365355	+0.75mm	1 SLOT	OPTION
#365353	0mm	0 SLOTS	INCLUDED
#365354	-0.75mm	Lightw.	OPTION
#365361	-1.25mm	Lightw.	OPTION



## WHEEL HUBS 14MM

#365352	+0.75mm	OPTION
#365350	0mm	OPTION
#365351	-0.75mm	OPTION

## OPTIONAL HEX HUB EFFECTS

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

### LESS OFFSET

Rear - more traction  
Front - more steering

### MORE OFFSET

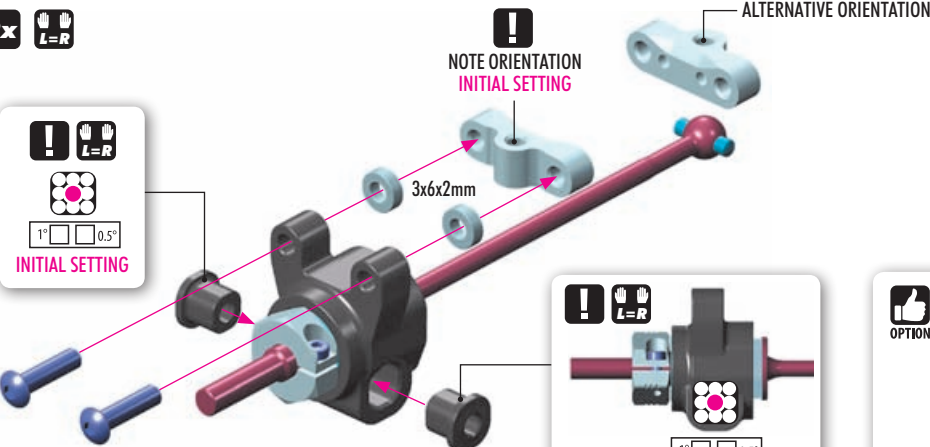
Rear - less traction  
Front - less steering



## REAR UPRIGHTS

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

2x L=R



INITIAL SETTING



INITIAL SETTING



303123  
SHIM 3x6x2



902312  
SH M3x12



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



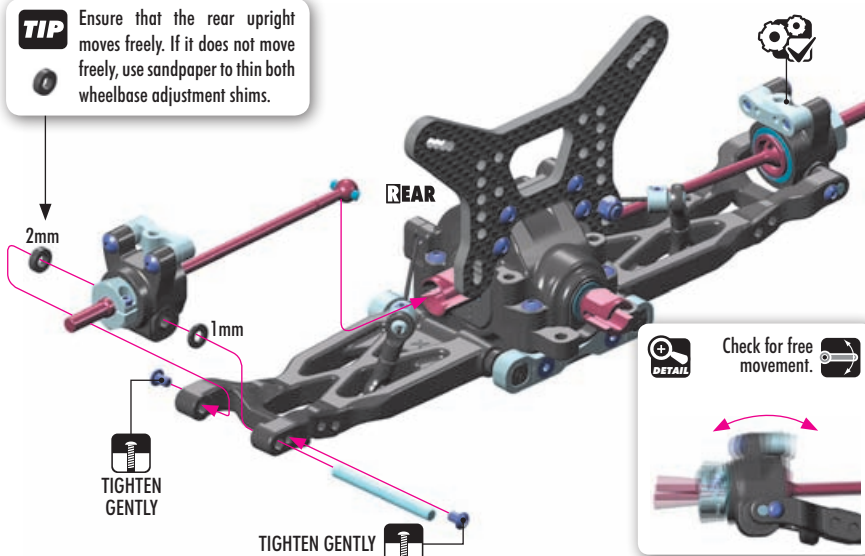
**IO**  
306219  
SHIM 3x6x1

**IO**  
306219  
SHIM 3x6x2

**902254**  
SH M2.5x4

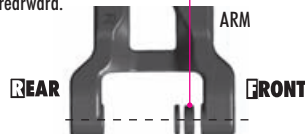
**SET-UP BOOK**  
WHEELBASE

**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.

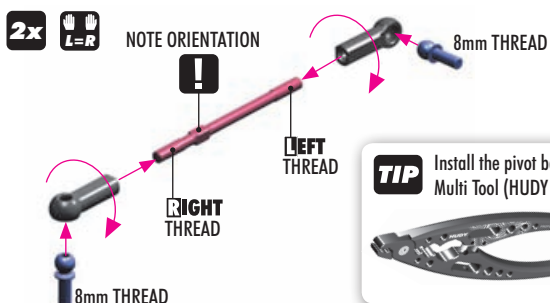


**SHORTER WHEELBASE**

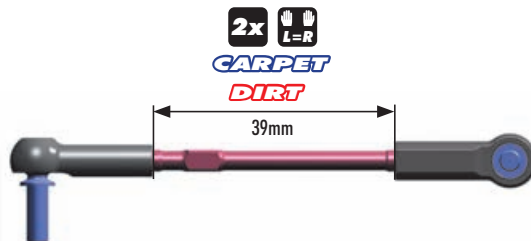
Adjustment Shim BEHIND HUB moves hub forward.



**SET-UP BOOK**  
CAMBER



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

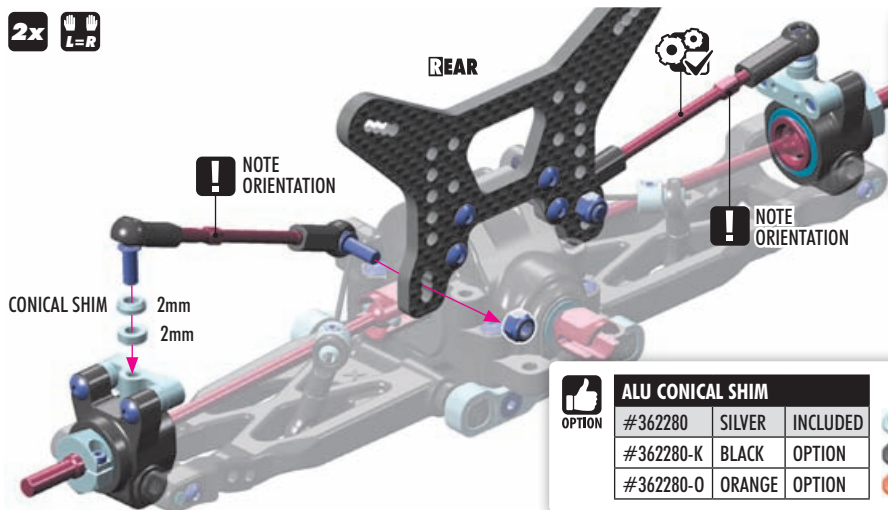


**303123**  
SHIM 3x6x2

**362280**  
CON. SHIM 3x6x2

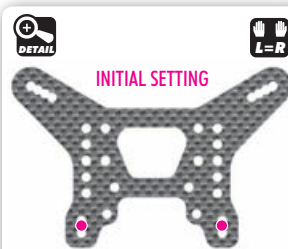
**960030**  
N M3

**SET-UP BOOK**  
ROLL CENTER

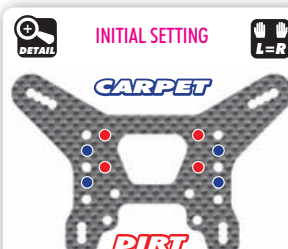
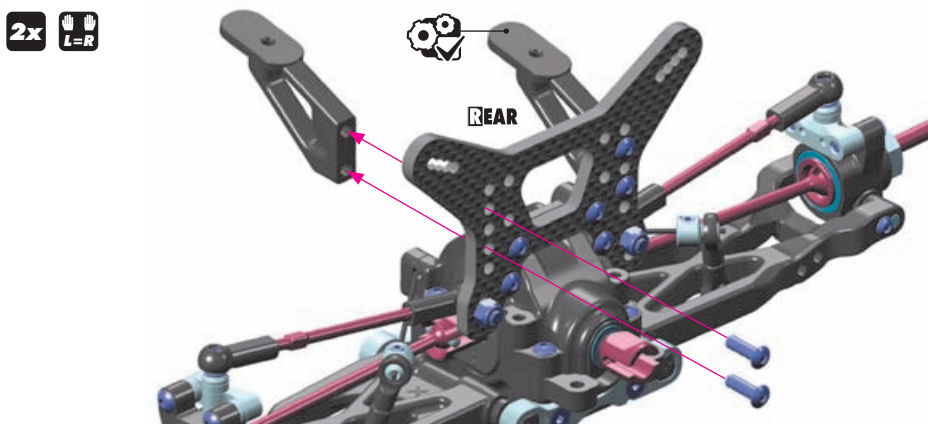


ALU NUTS M3		
#296530-B	BLUE	OPTION
#296530-K	BLACK	OPTION
#296530-O	ORANGE	OPTION
#960031	SILVER	OPTION

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



**902310**  
SH M3x10





## WHEEL HUBS 12MM

#365360	+4.5mm	6 SLOTS	OPTION
#365359	+3.75mm	5 SLOTS	OPTION
#365358	+3.0mm	4 SLOTS	OPTION
#365357	+2.25mm	3 SLOTS	OPTION
#365356	+1.5mm	2 SLOTS	INCLUDED
#365355	+0.75mm	1 SLOT	OPTION
#365353	0mm	0 SLOTS	INCLUDED
#365354	-0.75mm	Lightw.	OPTION
#365361	-1.25mm	Lightw.	OPTION



## XRAY BALL-BEARING

#940510	5x10x4	OIL	OPTION
#940512	5x12x4	OIL	OPTION
#359050	5x10x4	GREASE	INCLUDED
#940513	5x12x4	GREASE	INCLUDED



## DRIVE SHAFT COLLAR

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



## STEERING BLOCK

#362250	MEDIUM	OPTION
#362250-H	HARD	INCLUDED
#362250-G	GRAPHITE	OPTION



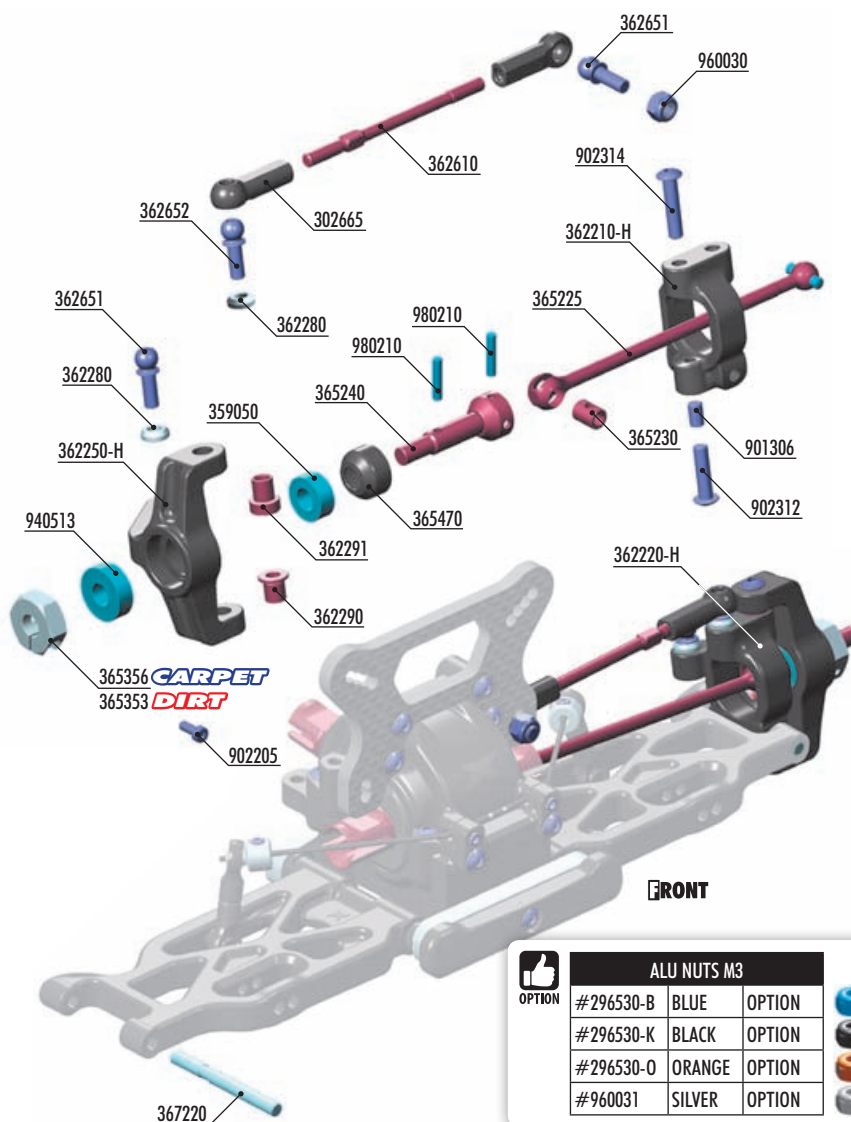
## C-HUBS

#362210	RIGHT 9° - M	OPTION
#362210-H	RIGHT 9° - H	INCLUDED
#362210-G	RIGHT 9° - G	OPTION
#362211	RIGHT 6°	OPTION
#362234	ALU RIGHT 12°	OPTION
#362220	LEFT 9° - M	OPTION
#362220-H	LEFT 9° - H	INCLUDED
#362220-G	LEFT 9° - G	OPTION
#362221	LEFT 6°	OPTION
#362244	ALU LEFT 12°	OPTION



## FRONT DRIVE SHAFT (2.5mm PIN)

#365201	ECS	81mm	OPTION
#365202	ECS	83mm	OPTION
#365222	CVD	81mm	OPTION
#365225	CVD	83mm	INCLUDED
#365226	CVD	84mm	OPTION

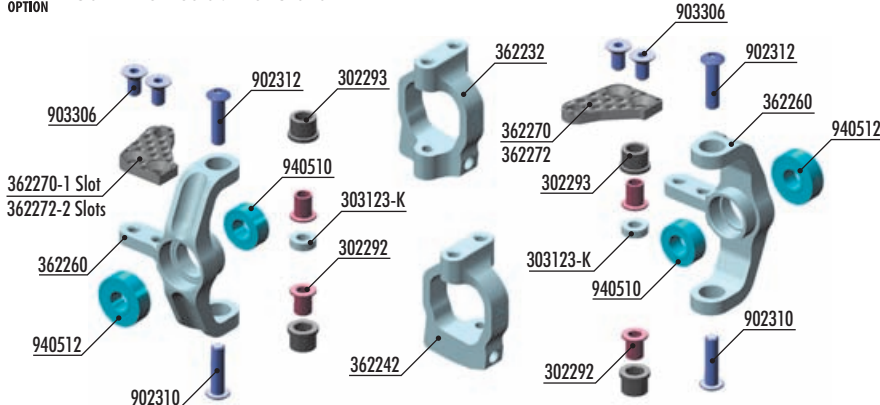


## ALU NUTS M3

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



## #360900 ALU STEERING BLOCKS & 7° C-HUBS - SET



## BAG

04

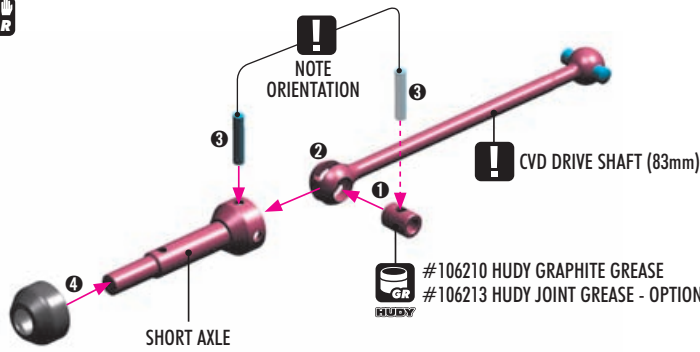
302665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)  
 362210-H COMPOSITE C-HUB 9° DEG. RIGHT - HARD  
 362220-H COMPOSITE C-HUB 9° DEG. LEFT - HARD  
 362250-H COMPOSITE STEERING BLOCK - HARD  
 362280 ALU CONICAL SHIM 3x6x2.0MM (10)  
 362290 STEEL STEERING BUSHING - SHORT (2)  
 362291 STEEL STEERING BUSHING - LONG (2)  
 362610 ADJ. TURNBUCKLE M3 L/R 50 MM - SPRING STEEL (2)  
 362651 BALL END 4.9MM WITH THREAD 8MM (2)  
 362652 BALL END 4.9MM WITH THREAD 10MM (2)  
 365225 FRONT DRIVE SHAFT 83MM WITH 2.5MM PIN - HUDY SPRING STEEL™  
 365230 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™  
 365240 FRONT DRIVE AXLE - HUDY SPRING STEEL™

365353 ALU WHEEL HUB 12MM (2)  
 365356 ALU WHEEL HUB 12MM - OFFSET "+1.50MM" (2)  
 365470 COMPOSITE DRIVE SHAFT SAFETY COLLAR (3)  
 367220 FRONT ARM PIVOT PIN (2)  
 359050 BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)  
 901306 HEX SCREW SB M3x6 (10)  
 902205 HEX SCREW SH M2x5 (10)  
 902312 HEX SCREW SH M3x12 (10)  
 902314 HEX SCREW SH M3x14 (10)  
 940513 BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2)  
 960030 NUT M3 (10)  
 980210 PIN 2x10 (10)



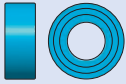


980210  
P 2x10

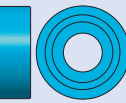


## FRONT DRIVE SHAFT (2.5mm PIN)

#	Model	Length	Status
#365201	ECS	81mm	OPTION
#365202	ECS	83mm	OPTION
#365222	CVD	81mm	OPTION
#365225	CVD	83mm	INCLUDED
#365226	CVD	84mm	OPTION



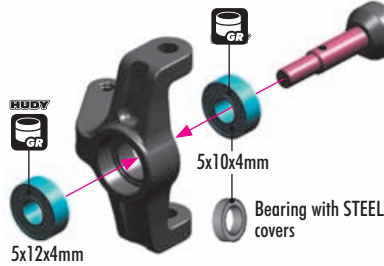
359050  
BB 5x10x4



940513  
BB 5x12x4

Use HUDY Ball-Bearing Grease

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



## XRAY BALL-BEARING

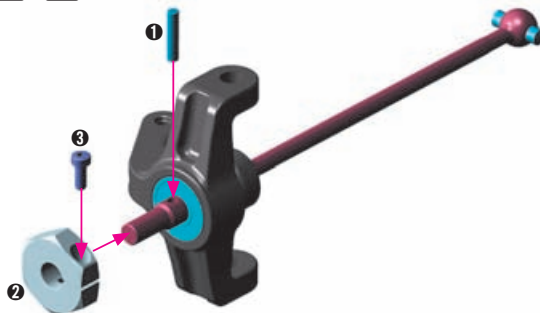
#	Model	Length	Status
#940510	5x10x4	OIL	OPTION
#940512	5x12x4	OIL	OPTION
#359050	5x10x4	GREASE	INCLUDED
#940513	5x12x4	GREASE	INCLUDED



902205  
SH M2x5



980210  
P 2x10



## WHEEL HUBS 12MM

#	Offset	Slots	Status
#365360	+4.5mm	6 SLOTS	OPTION
#365359	+3.75mm	5 SLOTS	OPTION
#365358	+3.0mm	4 SLOTS	OPTION
#365357	+2.25mm	3 SLOTS	OPTION
#365356	+1.5mm	2 SLOTS	INCLUDED
#365355	+0.75mm	1 SLOT	OPTION
#365353	0mm	0 SLOTS	INCLUDED
#365354	-0.75mm	Lightw.	OPTION
#365361	-1.25mm	Lightw.	OPTION

## OPTIONAL HEX HUB EFFECTS

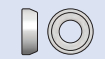
Different off-set hex hubs are used to increase or decrease the track-width.

## LESS OFF-SET

Rear - more traction  
Front - more steering

## MORE OFF-SET

Rear - less traction  
Front - less steering



362280  
CON. SHIM 3x6x2

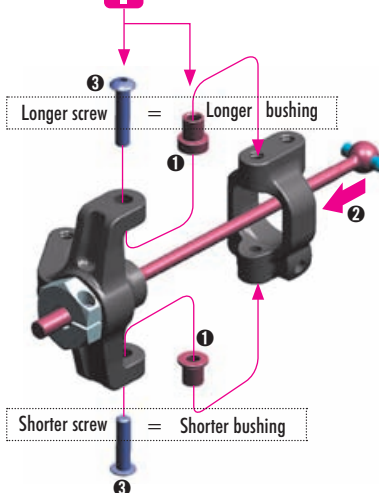


902312  
SH M3x12



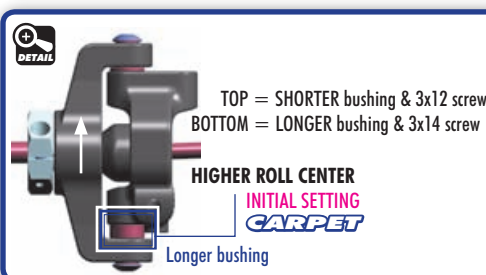
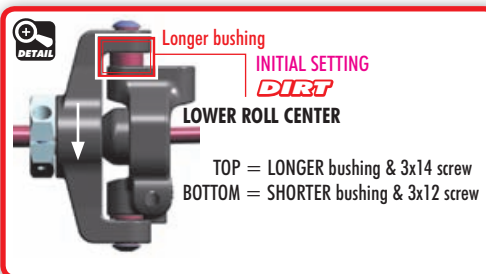
902314  
SH M3x14

**IMPORTANT** Be sure to use the shorter screw with shorter bushing and longer screw with longer bushing.



**IMPORTANT (LEFT = RIGHT)**

When inserting the bushings, make sure that bushings are inserted equally on both right and left hub to give the same roll center position.



8mm THREAD

**NOTE ORIENTATION**

CONICAL SHIM 3x6x2mm



#360900  
ALU STEER. BLOCKS & 7° C-HUBS - SET



**SET-UP BOOK**  
**CASTER**  
**ROLL CENTER**



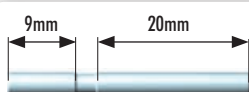
901306  
SB M3x6

2x  
L=R



Check for free movement.

DO NOT OVERTIGHTEN

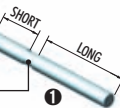


NOTE ORIENTATION

RIGHT

REAR

LEFT

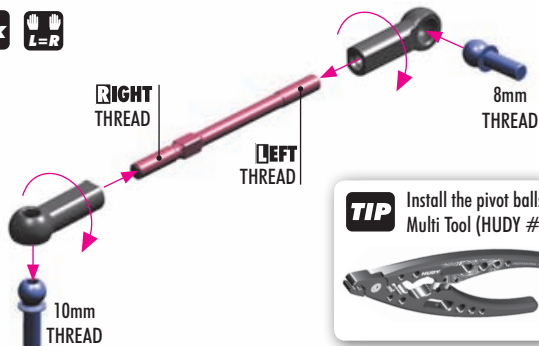


TIP

(HUDY #107633)

If the C-hub does not move freely, use a HUDY Arm Reamer to resize the hole.

2x  
L=R



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



2x  
L=R

CARPET DIRT

33.4mm



SET-UP BOOK

CAMBER

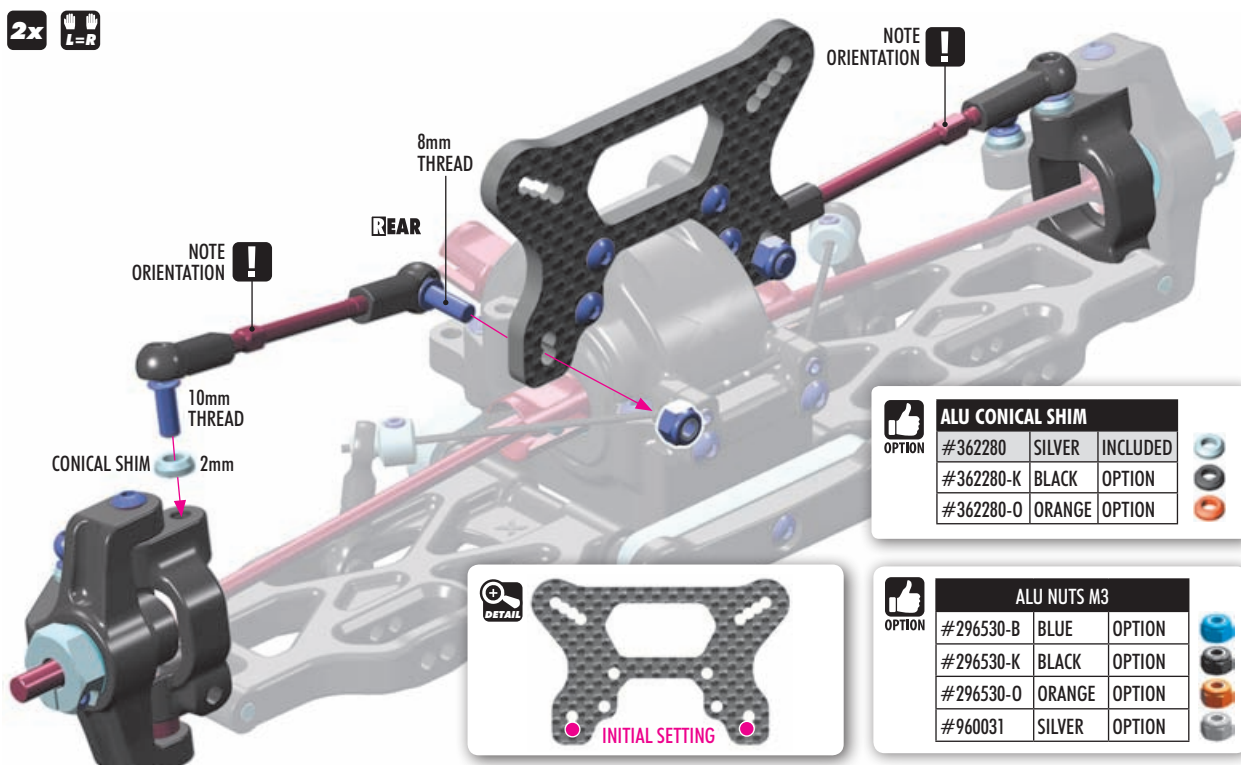


362280  
CON. SHIM 3x6x2



960030  
N M3

2x  
L=R



NOTE ORIENTATION

8mm THREAD

REAR

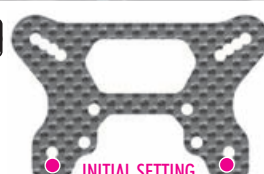
NOTE ORIENTATION

10mm THREAD

CONICAL SHIM 2mm

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

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



INITIAL SETTING

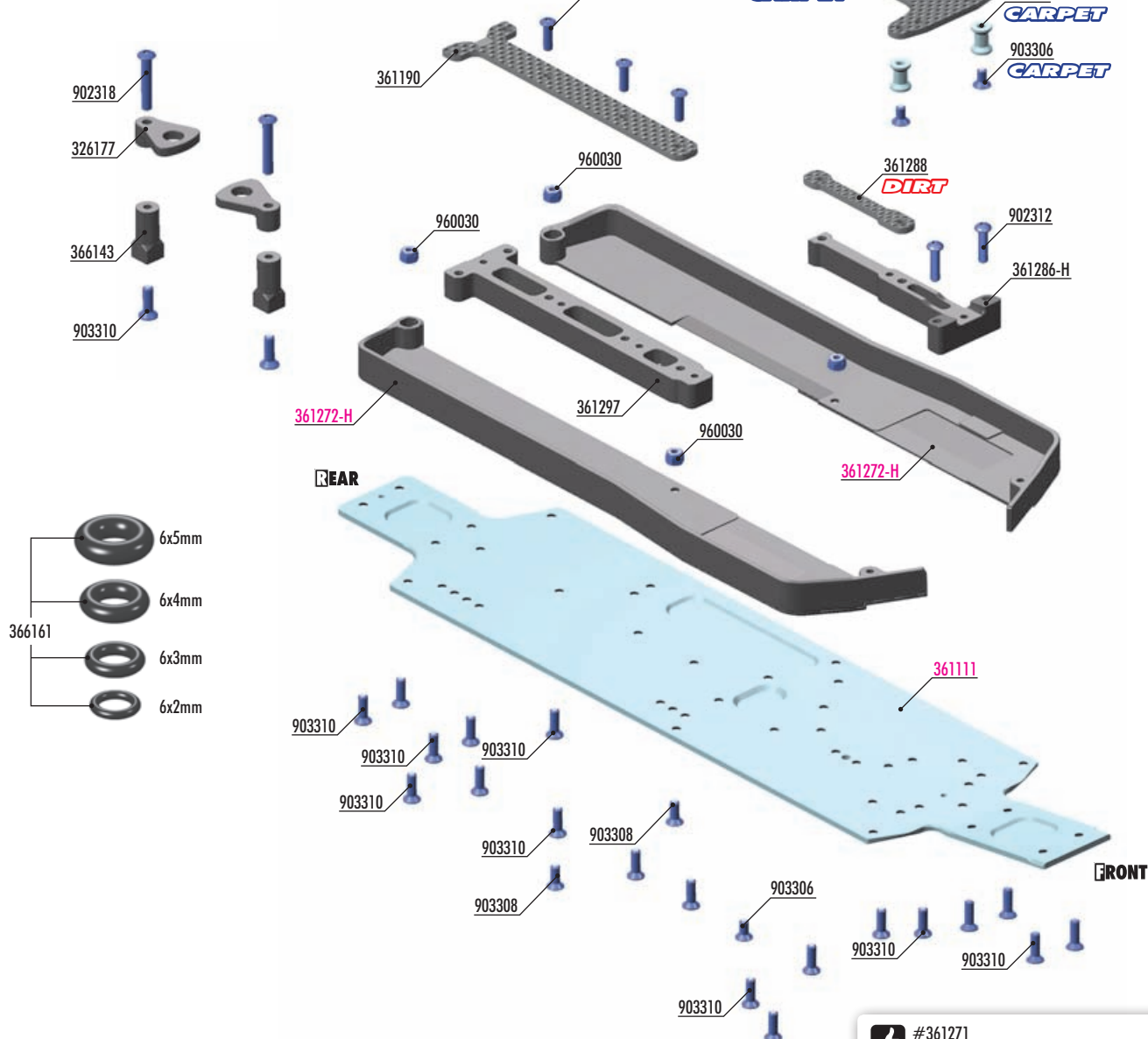
SET-UP BOOK

ROLL CENTER



## ALU NUTS M3

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



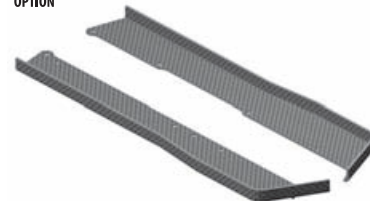
#361191  
BRASS CHASSIS BRACE REAR (40g)



#361295  
COMPOSITE CHASSIS BRACE REAR - MEDIUM



#361271  
XB4 CARBON FIBER CHASSIS SIDE GUARD L+R



## BAG

04

326177	COMPOSITE BATTERY CLAMP (2)
361190	GRAPHITE CHASSIS BRACE UPPER DECK 2.2MM
361286-H	COMPOSITE CHASSIS BRACE FRONT - HARD
361288	GRAPHITE CHASSIS WIRE COVER 2.2MM
361289	GRAPHITE CHASSIS T-BRACE - FRONT - 2.2MM
361297	COMPOSITE CHASSIS BRACE REAR - HARD
366011	ALU BRACE MOUNT - SWISS 7075 T6 (2)
366143	COMPOSITE BATTERY HOLDER STAND (2)
366161	SET OF O-RINGS (6x2, 6x3, 6x4, 6x5MM)
902306	HEX SCREW SH M3x6 (10)
902308	HEX SCREW SH M3x8 (10)

902310	HEX SCREW SH M3x10 (10)
902312	HEX SCREW SH M3x12 (10)
902314	HEX SCREW SH M3x14 (10)
902318	HEX SCREW SH M3x18 (10)
903306	HEX SCREW SFH M3x6 (10)
903308	HEX SCREW SFH M3x8 (10)
903310	HEX SCREW SFH M3x10 (10)
960030	NUT M3 (10)

361111 XB4'22 ALU CHASSIS - SWISS 7075 T6 - 2MM  
361272-H COMPOSITE CHASSIS SIDE GUARDS L+R - HARD



# 4. FRONT & REAR ASSEMBLY

**CARPET** **DIRT**



903308  
SFH M3x8



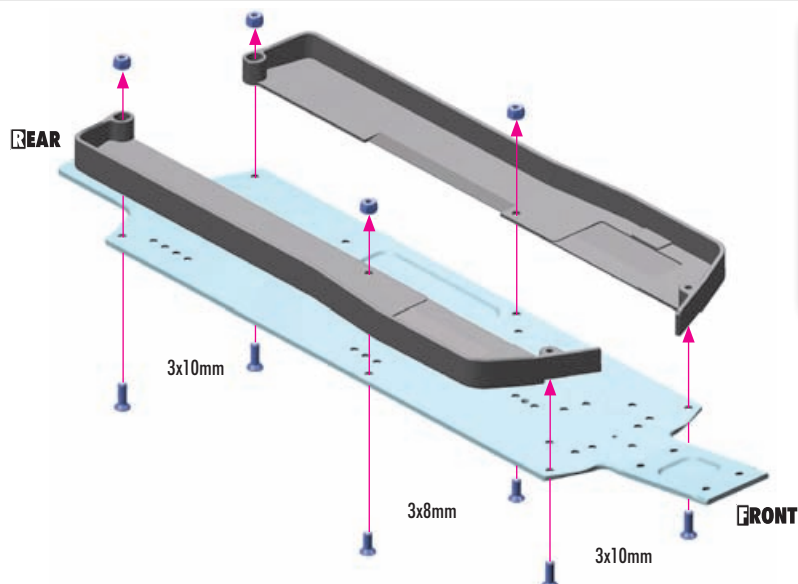
903310  
SFH M3x10



960030  
N M3

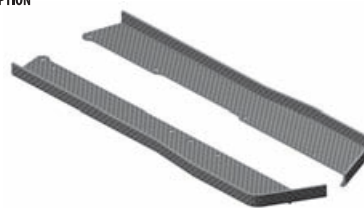
**SET-UP  
BOOK**

CHASSIS FLEX



#361271

OPTION XB4 CARBON FIBER CHASSIS SIDE GUARD L+R



OPTION

ALU NUTS M3

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



902306  
SH M3x6



902308  
SH M3x8



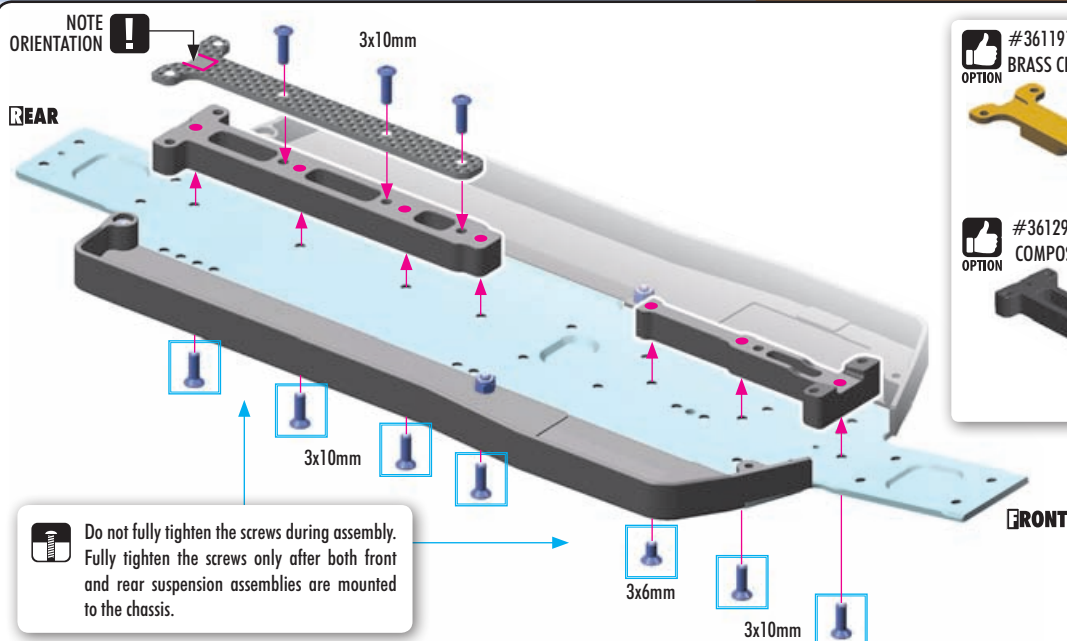
902310  
SH M3x10



903306  
SFH M3x6



903310  
SFH M3x10



OPTION

#361191

BRASS CHASSIS BRACE REAR (40g)



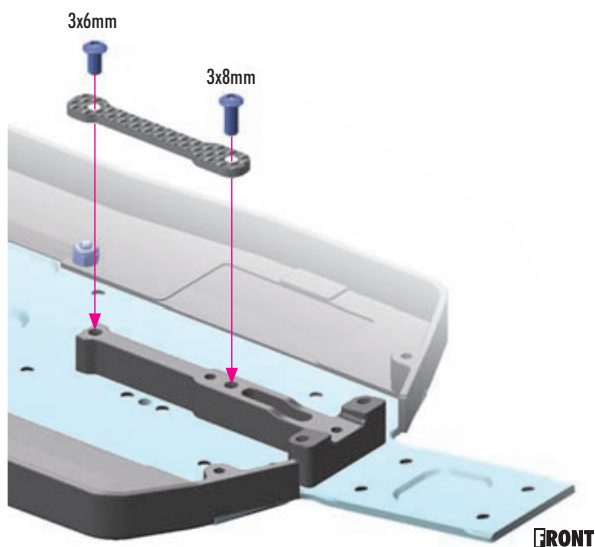
OPTION

#361295

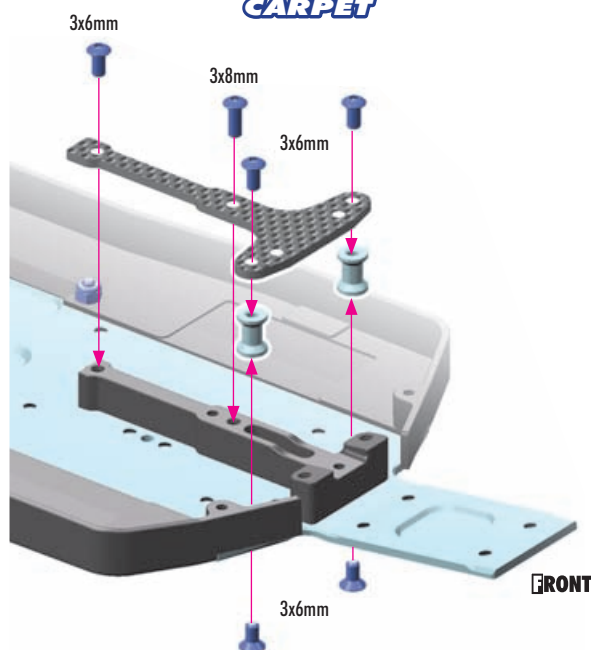
COMPOSITE CHASSIS BRACE REAR - MEDIUM



**DIRT**



**CARPET**

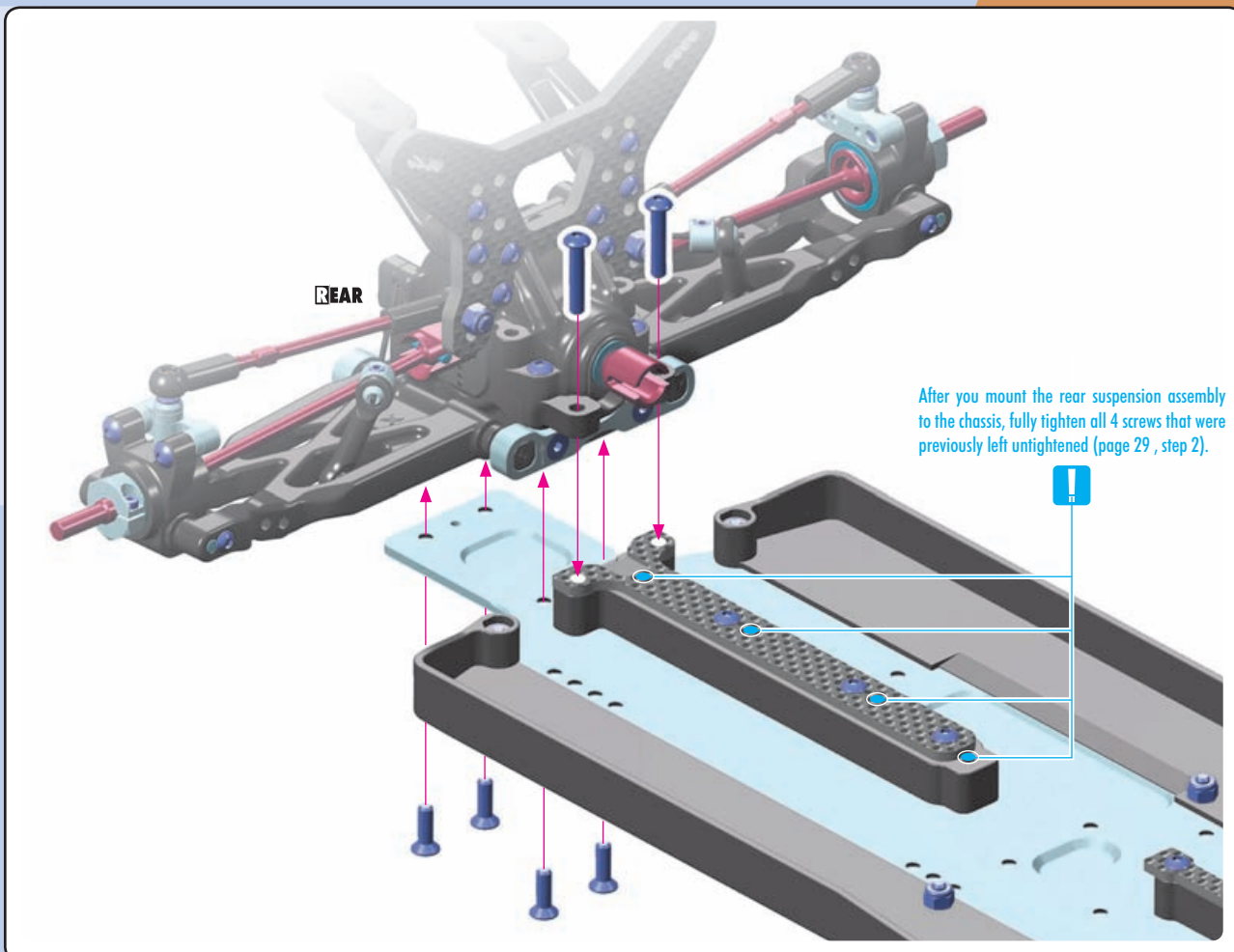




902314  
SH M3x14



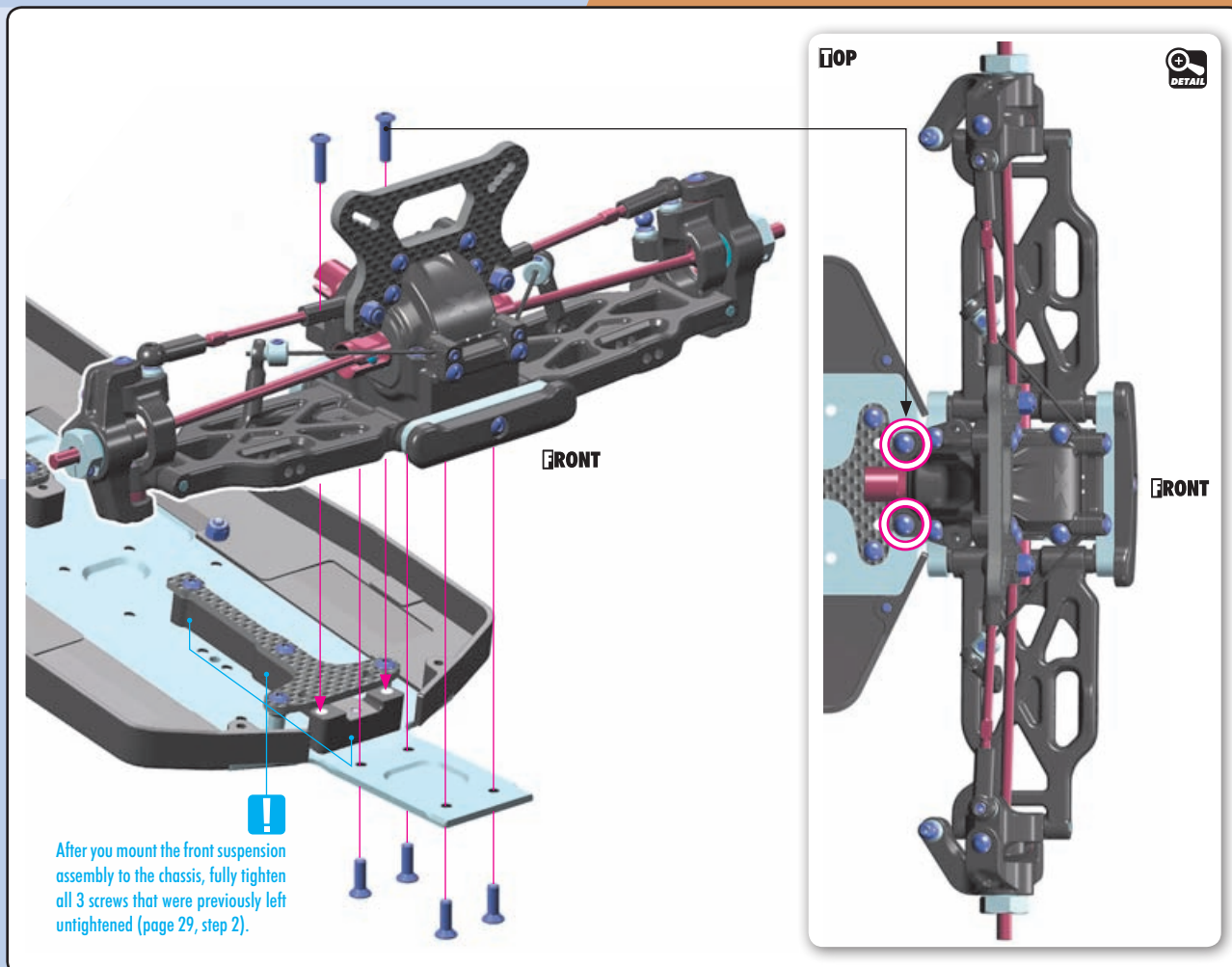
903310  
SFH M3x10



902312  
SH M3x12



903310  
SFH M3x10





902318  
SH M3x18



903310  
SFH M3x10

## #366161

Choose the diameter of O-ring to best eliminate play between the battery and post without being too tight.



6x5mm



6x4mm



6x3mm

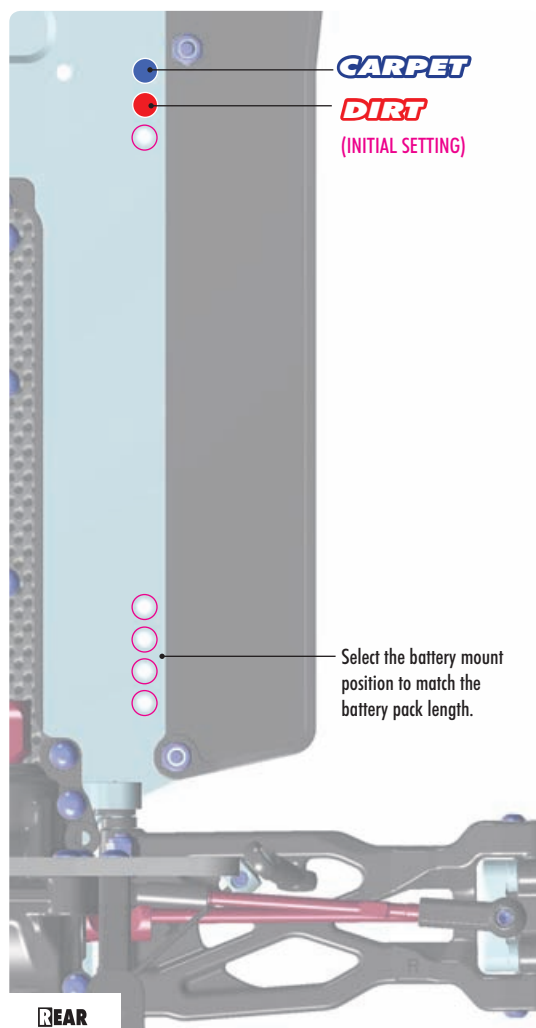


6x2mm

**TIP** Hold the battery holder with Professional Multi Tool (HUDY #183011).



Select the battery mount position to match the battery pack length.



REAR

Battery position for **DIRT**  
(INITIAL SETTING)

Battery position for **CARPET**  
(INITIAL SETTING)

ORIENTATION FOR  
LOW BATTERY PACK

ORIENTATION FOR  
STANDARD BATTERY PACK

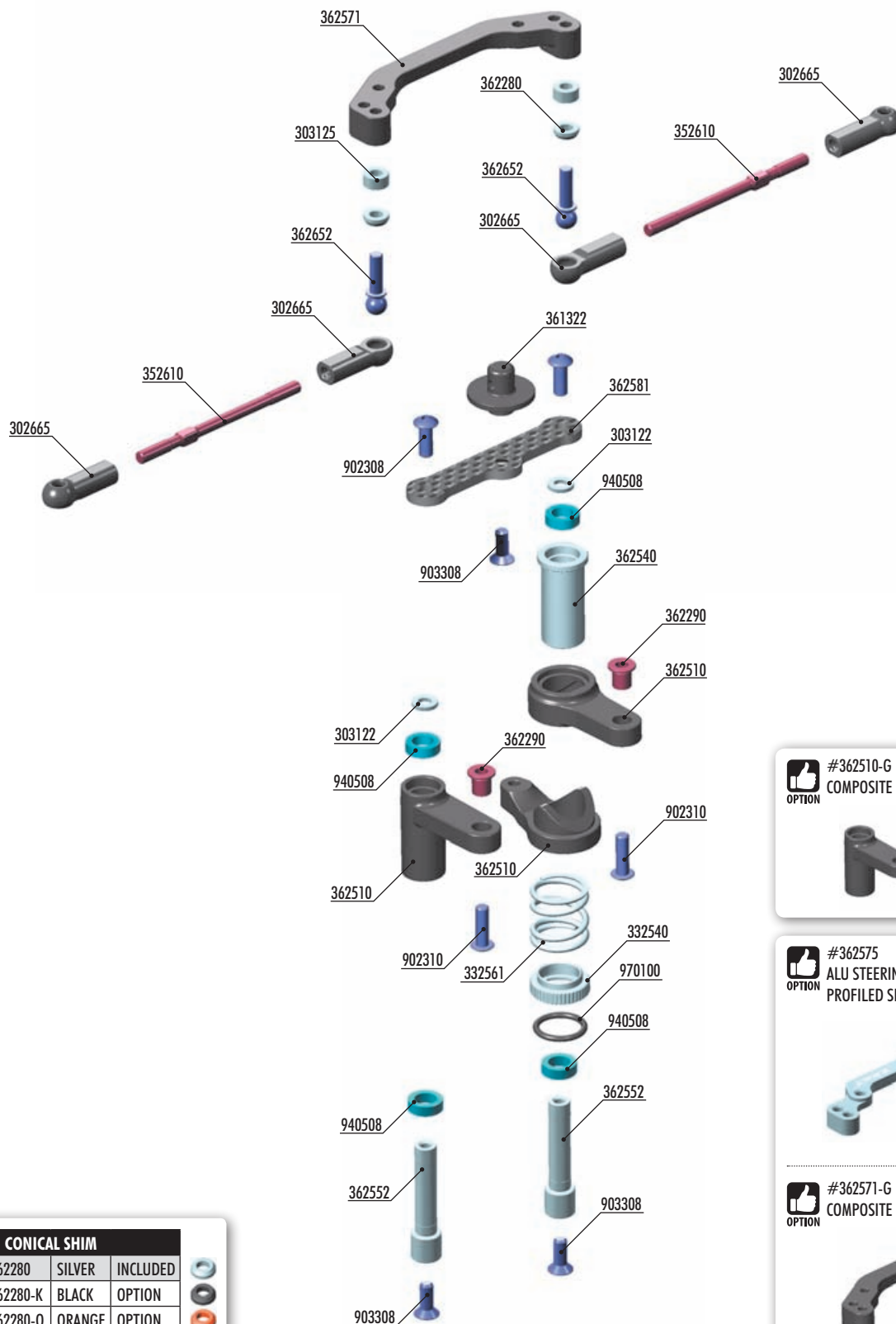
Battery  
(NOT INCLUDED)



#326181  
STAINLESS STEEL BATTERY WEIGHT 35G







## ALU CONICAL SHIM

#	COLOR	INCLUDED
#362280	SILVER	INCLUDED
#362280-K	BLACK	OPTION
#362280-O	ORANGE	OPTION



## #362510-G COMPOSITE SERVO SAVER - GRAPHITE



## #362575 ALU STEERING PLATE 2-HOLE - 6mm PROFIED SHAPE - SWISS 7075 T6



## #362571-G COMPOSITE STEERING PLATE - GRAHITE



## BAG

05

302665	COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
303122	ALU SHIM 3x6x1.0MM (10)
303125	ALU SHIM 3x6x3.0MM (10)
332540	ALU SERVO SAVER ADJUSTABLE NUT
332561	SERVO SAVER SPRING C=14
352610	ADJ. TURNBUCKLE M3 L/R 45MM - SPRING STEEL (2)
361322	BODY MOUNT - EXTRA-SHORT
362280	ALU CONICAL SHIM 3x6x2.0MM (10)
362290	STEEL STEERING BUSHING - SHORT (2)
362510	COMPOSITE SERVO SAVER
362540	ALU SERVO SAVER MAIN SHAFT

362552	SERVO SAVER PIVOT SHAFT +5MM (2)
362571	COMPOSITE STEERING PLATE
362581	STEERING BRACE 2.0MM GRAPHITE
362652	BALL END 4.9MM WITH THREAD 10MM (2)

902308	HEX SCREW SH M3x8 (10)
902310	HEX SCREW SH M3x10 (10)
903308	HEX SCREW SFH M3x8 (10)
940508	BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
970100	O-RING 10 x 1.5 (10)

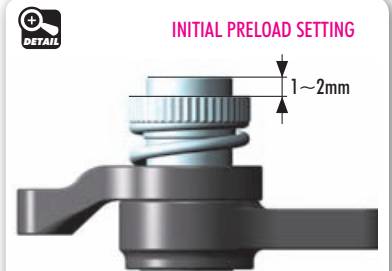
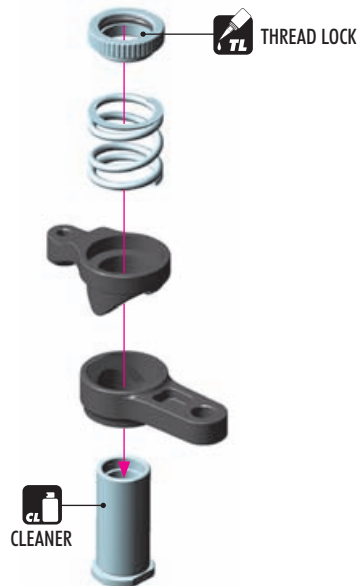


970100  
O 10x1.5



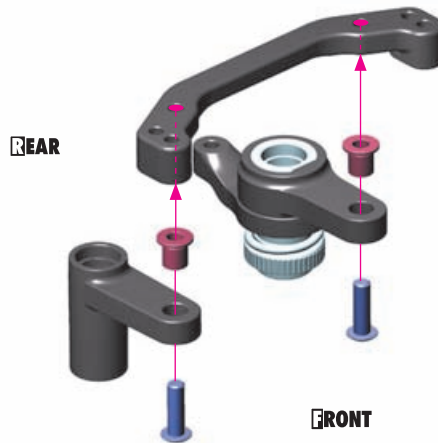
**SET-UP BOOK**

SERVO SAVER



902310  
SH M3x10

**!** NOTE ORIENTATION



**STEERING PLATE**

OPTION			
#362571	HARD	INCLUDED	
#362571-G	GRAPHITE	OPTION	
#362575	ALU	OPTION	



Increases steering precision and predictability and is recommended for use in high-traction conditions. Includes extra Ackermann positions for very precise steering adjustment.



303122  
SHIM 3x6x1



902308  
SH M3x8

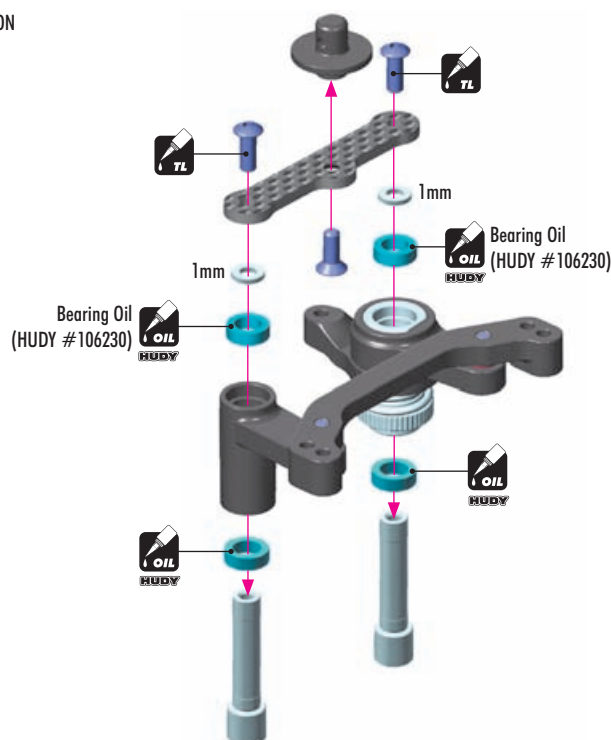


903308  
SFH M3x8



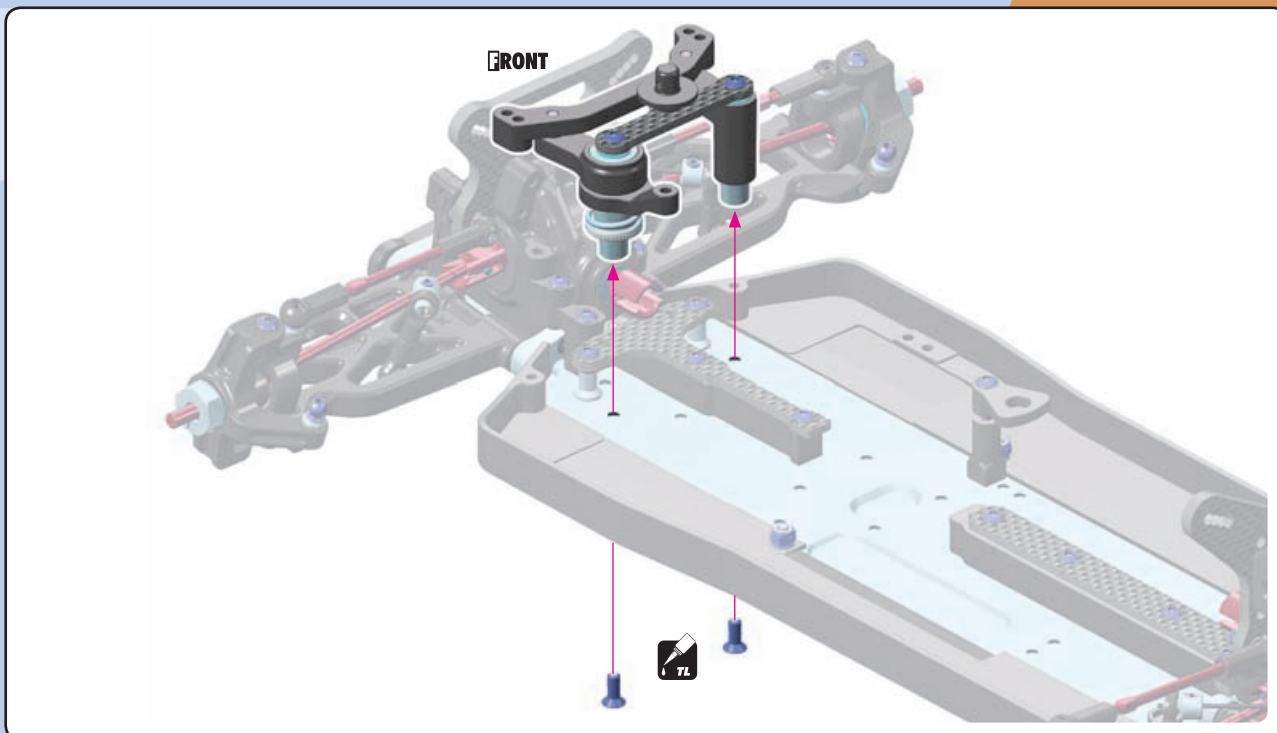
940508  
BB 5x8x2.5

**!** NOTE ORIENTATION

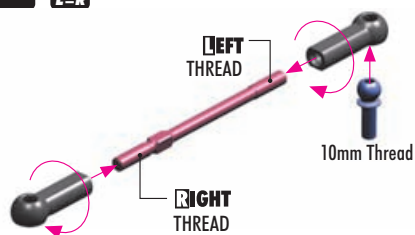




903308  
SFH M3x8



2x L=R



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

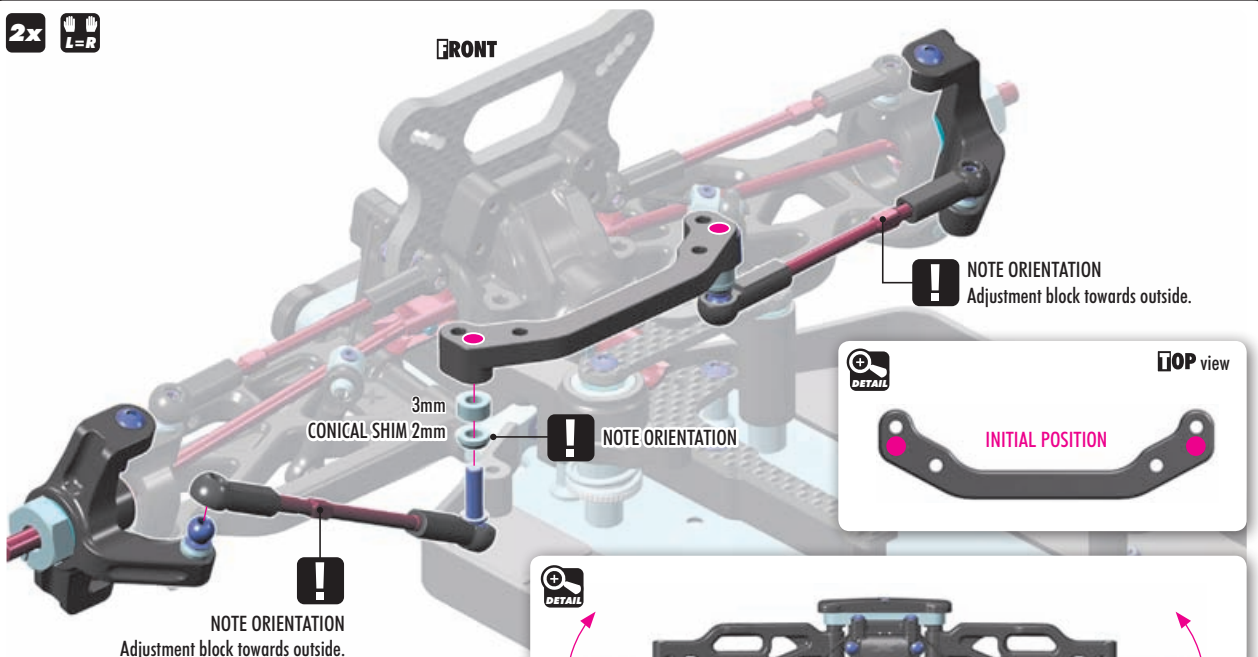


303125  
SHIM 3x6x3



362280  
CON. SHIM 3x6x2

2x L=R



**SET-UP BOOK**

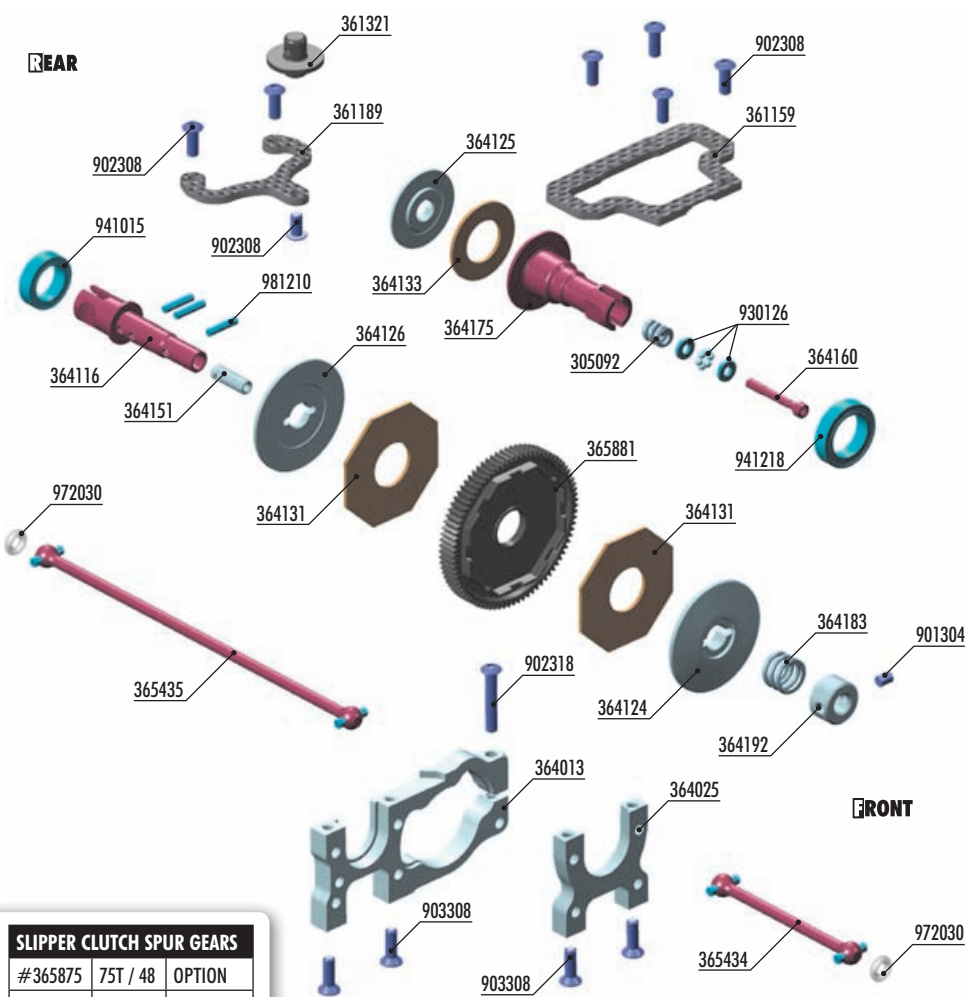
ACKERMANN  
BUMP STEER  
TOE-IN



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







## SLIPPER CLUTCH SPUR GEARS

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



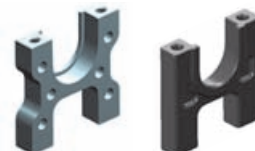
## CENTER DIFF CONVERSION

OPTION

#365101 XRAY XB4 ACTIVE DIFF. CENTER - SET  
#364904 XRAY XB4 CENTER DIFF. - SET



#364024 ALU CENTRAL BULKHEAD  
#364023 COMPOSITE CENTRAL BULKHEAD



#365436 CENTRAL DOGBONE DRIVE SHAFT 65MM - HUDY SPRING STEEL™



#361176 GRAPHITE CENTER UPPER DECK - V2



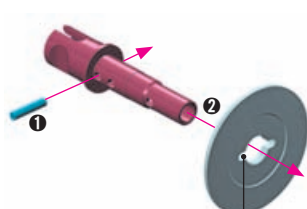
## BAG

06

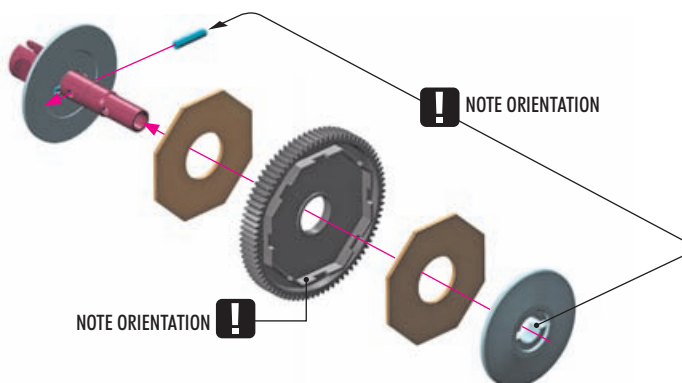
305092 BALL DIFFERENTIAL SPRING  
361159 GRAPHITE CENTER UPPER DECK 2.2MM  
361189 GRAPHITE REAR BODY POST HOLDER 2.2MM  
361321 BODY MOUNT - SHORT + SHIMS - SET  
364013 ALU MOTOR BULKHEAD - LOWER  
364025 ALU CENTRAL BULKHEAD - SWISS 7075 T6  
364116 ONE-WAY SLIPPER CLUTCH SHAFT - HUDY SPRING STEEL™  
364124 ALU PLATE FOR ONE-WAY SLIPPER CLUTCH - FRONT - SWISS 7075 T6  
364125 ALU PLATE FOR ONE-WAY SLIPPER CLUTCH FOR OUTDRIVE - SWISS 7075 T6  
364126 ALU PLATE FOR ONE-WAY SLIPPER CLUTCH - REAR - SWISS 7075 T6  
364131 SLIPPER CLUTCH PAD SLS - SOFT (3)  
364133 SLIPPER CLUTCH ONE-WAY OUTDRIVE PAD SLS - SOFT (2)  
364151 STEEL BUSHING FOR ONE-WAY SLIPPER CLUTCH  
364160 SCREW FOR ONE-WAY SLIPPER CLUTCH ADJUSTMENT - HUDY SPRING STEEL™  
364175 OUTDRIVE ADAPTER WITH PRESSED ONE-WAY BEARING - HUDY SPRING STEEL™

364183 SLIPPER CLUTCH SPRING C=50 - BLACK  
364192 ALU NUT FOR ONE-WAY SLIPPER CLUTCH  
365434 CENTRAL DOGBONE DRIVE SHAFT 47MM - HUDY SPRING STEEL™  
365435 CENTRAL DOGBONE DRIVE SHAFT 117MM - HUDY SPRING STEEL™  
365881 COMPOSITE SLIPPER CLUTCH SPUR GEAR 81T / 48 - GRAPHITE  
901304 HEX SCREW SB M3x4 (10)  
902308 HEX SCREW SH M3x8 (10)  
902318 HEX SCREW SH M3x18 (10)  
903308 HEX SCREW SFH M3x8 (10)  
930126 CARBIDE BALL-BEARING AXIAL 2.6x6x1  
941015 BALL-BEARING 10x15x4 RUBBER SEALED - OIL (2)  
941218 BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2)  
972030 SILICONE O-RING 3x2 (10)  
981210 PIN 2x10 (10)

981210  
P 2x10



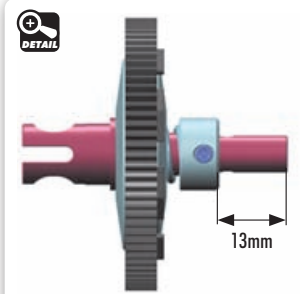
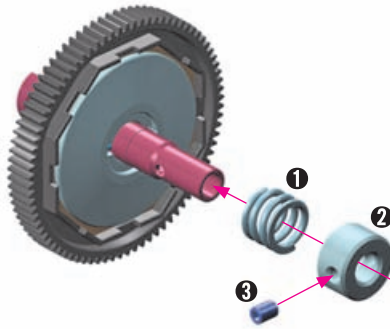
NOTE ORIENTATION !



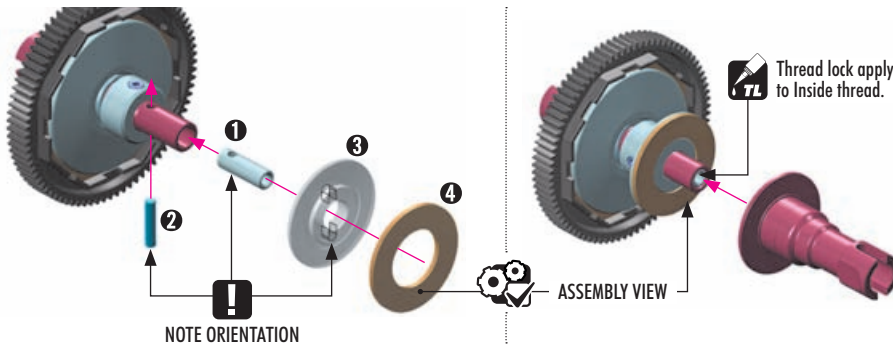
NOTE ORIENTATION !

NOTE ORIENTATION !

901304  
SB M3x4



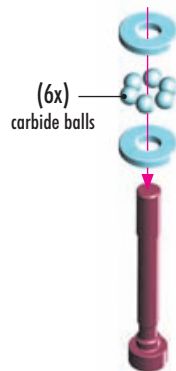
980210  
P 2x10



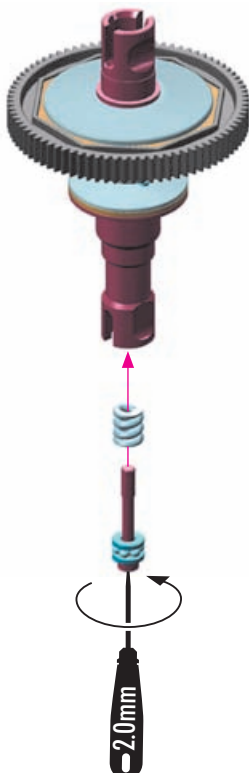
HUDY  
# 106231  
HUDY ONE-WAY BEARING OIL

Apply a drop of One-Way Bearing Oil after every 1-2 hours of driving to increase lifespan. A dry one-way bearing may cause damage or failure.

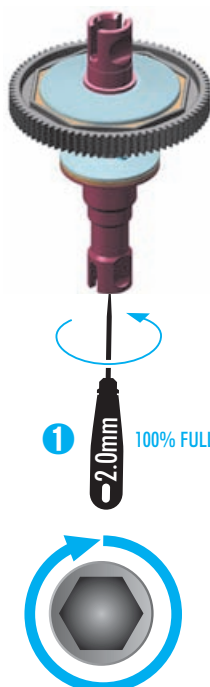
930126  
BA 2.6x6x1



GRAPHITE GREASE  
(HUDY #106210)



**BEFORE RACING, follow these steps to properly break in the SLIPPER CLUTCH.**



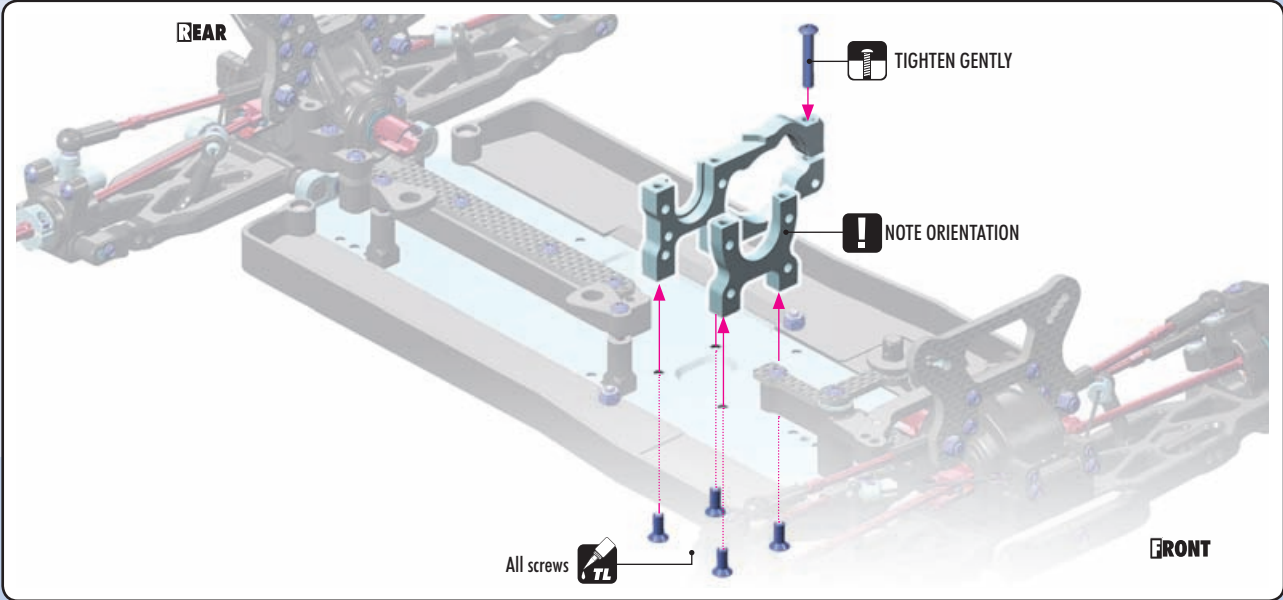
(360° CCW)  
(INITIAL SETTING)  
✓  
SLIPPER CLUTCH IS NOW READY




902318  
SH M3x18

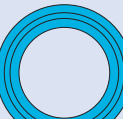


903308  
SFH M3x8






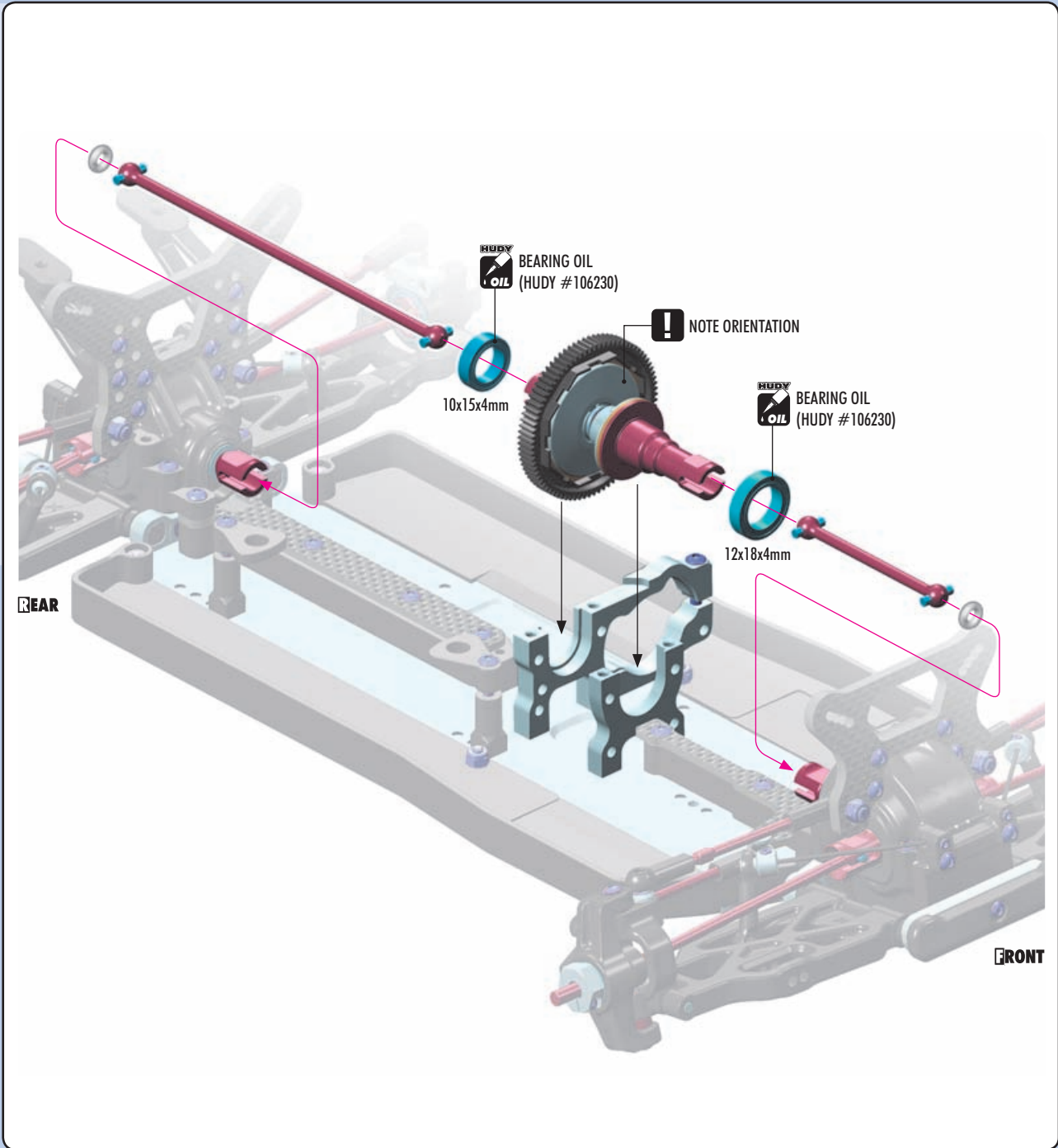
941015  
BB 10x15x4



941218  
BB 12x18x4



972030  
O 3x2





## ! VERY IMPORTANT!

It is very 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.

### CENTRAL SLIPPER CLUTCH

#### ADJUSTMENT

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

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

- Smoother acceleration on power
- Easier to drive

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

- More forward drive
- Less forgiving

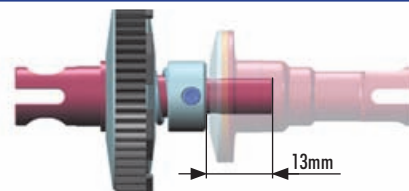
REAR

LOOSEN SLIPPER CLUTCH

TIGHTEN SLIPPER CLUTCH

#### SLIPPER CLUTCH ADJUSTMENT

- 1 Untighten set-screw
- 2 Adjust
- 3 Tighten set-screw



### ONE-WAY SLIPPER CLUTCH ADJUSTMENT

For adjusting the front one-way slipper clutch, remove the slipper assembly from car and turn the screw inside the front outdrive using a 2.0mm wrench.

LOOSE - CCW: Greater Rear Brake Bias

- Less weight transfer to front under braking
- Smoother on landings
- Easier to drive

TIGHT - CW: More Aggressive Front Brake Bias

- Less forgiving on landings
- More difficult to drive

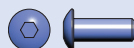
FRONT

2.0mm

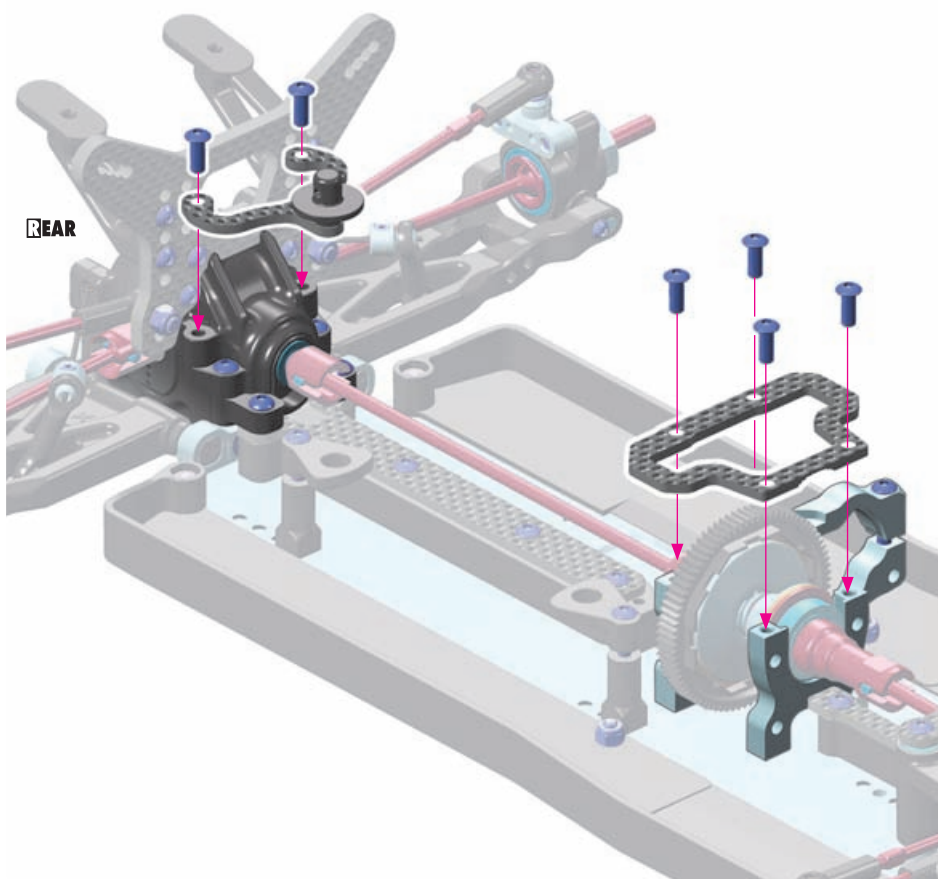
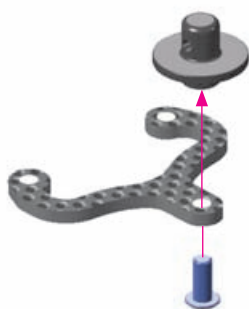
#### ONE-WAY ADJUSTMENT

- 1 Remove drive shaft and slipper clutch
- 2 Adjust one-way slipper
- 3 Reinstall drive shaft and slipper clutch

Allen 1.5mm



902308  
SH M3x8



**REAR**

**FRONT**

**CENTER DIFFERENTIAL**  
#364904

**ONE-WAY SLIPPER CLUTCH CONVERSION**

#364101  
ONE-WAY SLIPPER CLUTCH SET

#364025  
ALU CENTRAL BULKHEAD

#365434  
CENTRAL DOGBONE DRIVE SHAFT 47MM

#361159  
GRAPHITE CENTER UPPER DECK

#365101 XRAY XB4 ACTIVE DIFFERENTIAL - CENTER - SET

ACTIVE DIFF SEGMENTS			
#325123	60°		OPTION
#325125	90°		INCLUDED
#325127	120°		OPTION

#364024  
ALU CENTRAL BULKHEAD

<b>BAG</b> 	361176	GRAPHITE CENTER UPPER DECK 2.2MM - V2	365436	CENTRAL DOGBONE DRIVE SHAFT 65MM - HUDY SPRING STEEL™
	361189	GRAPHITE REAR BODY POST HOLDER 2.2MM	902308	HEX SCREW SH M3x8 (10)
	361321	BODY MOUNT - SHORT + SHIMS - SET	902318	HEX SCREW SH M3x18 (10)
	364013	ALU MOTOR BULKHEAD - LOWER	903308	HEX SCREW SFH M3x8 (10)
	364023	COMPOSITE CENTRAL BULKHEAD - LOWER	941015	BALL-BEARING 10x15x4 RUBBER SEALED - OIL (2)
	365435	CENTRAL DOGBONE DRIVE SHAFT 117MM - HUDY SPRING STEEL™		

**REAR**

**FRONT**


TIGHTEN GENTLY


NOTE ORIENTATION

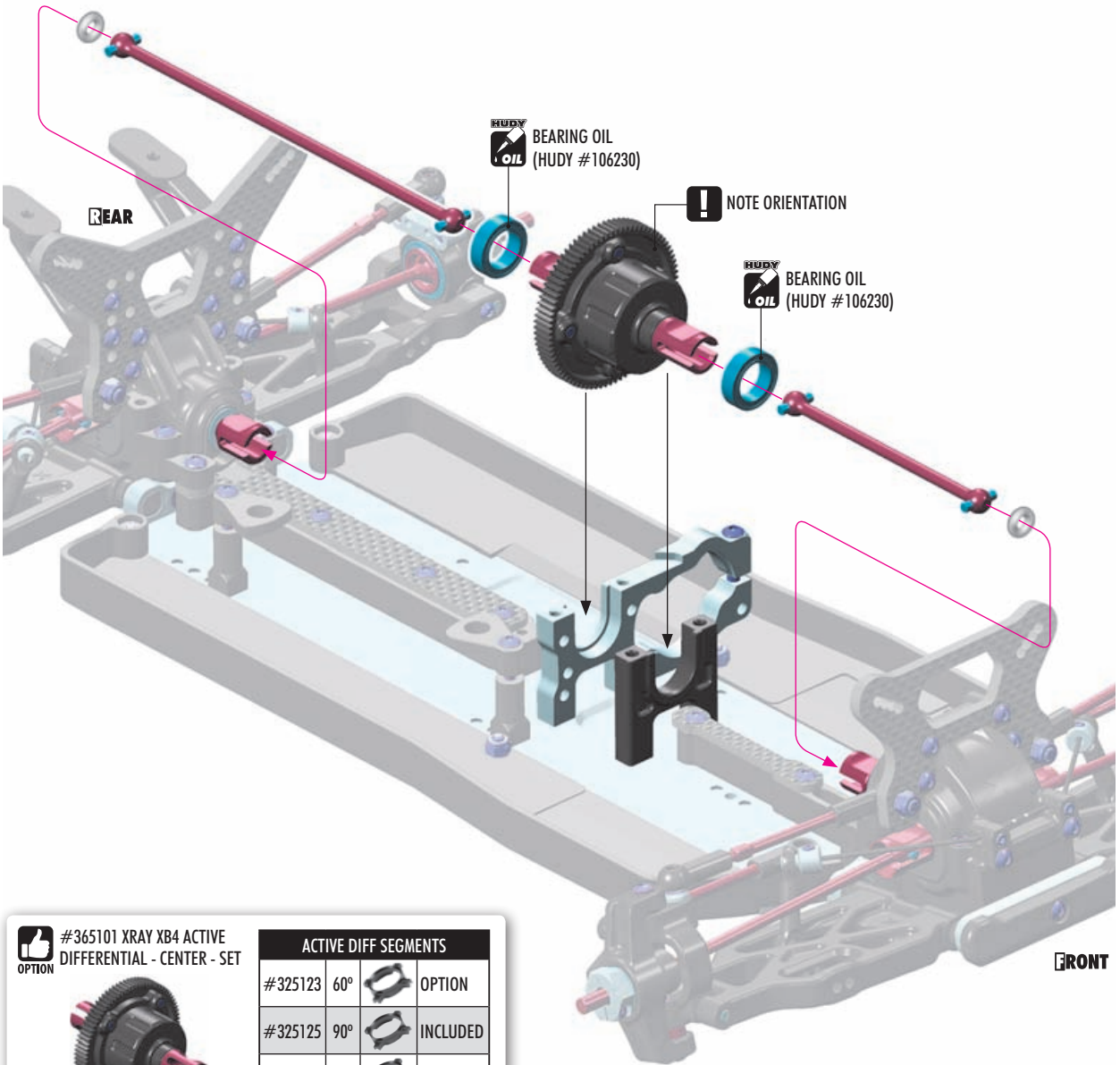
#364024  
ALU CENTRAL BULKHEAD

902318  
SH M3x18

903308  
SFH M3x8

  
941015  
BB 10x15x4

  
972030  
O 3x2




**REAR**

**BEARING OIL (HUDY #106230)**




**NOTE ORIENTATION**

**BEARING OIL (HUDY #106230)**

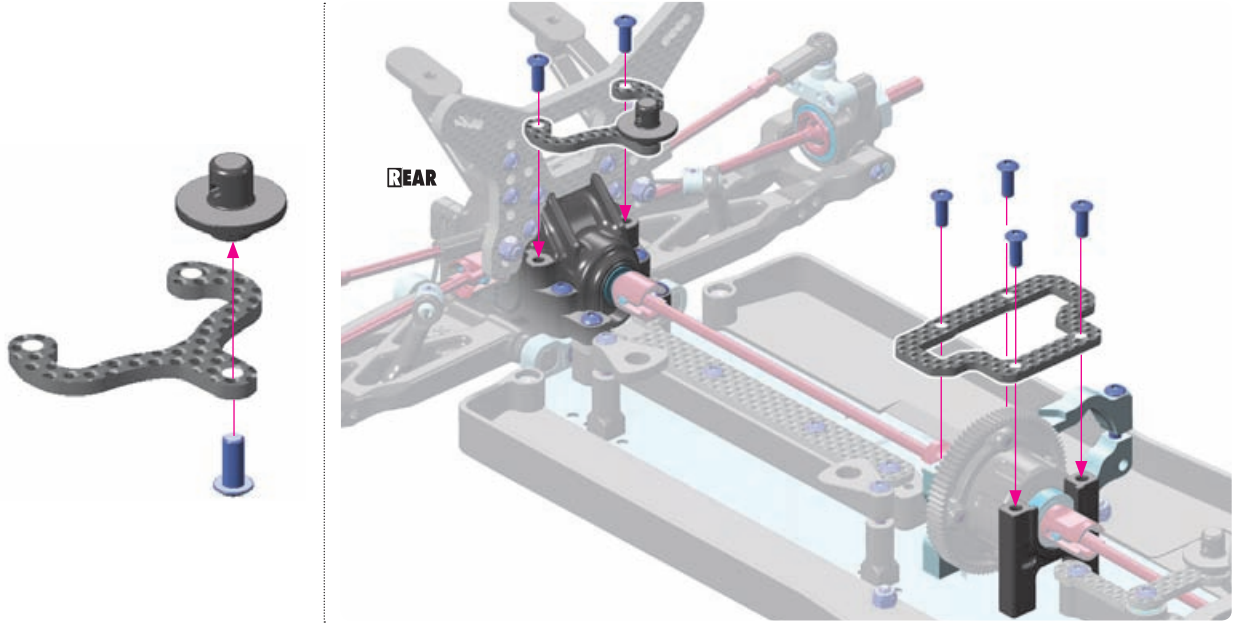
**FRONT**



#365101 XRAY XB4 ACTIVE DIFFERENTIAL - CENTER - SET  
OPTION

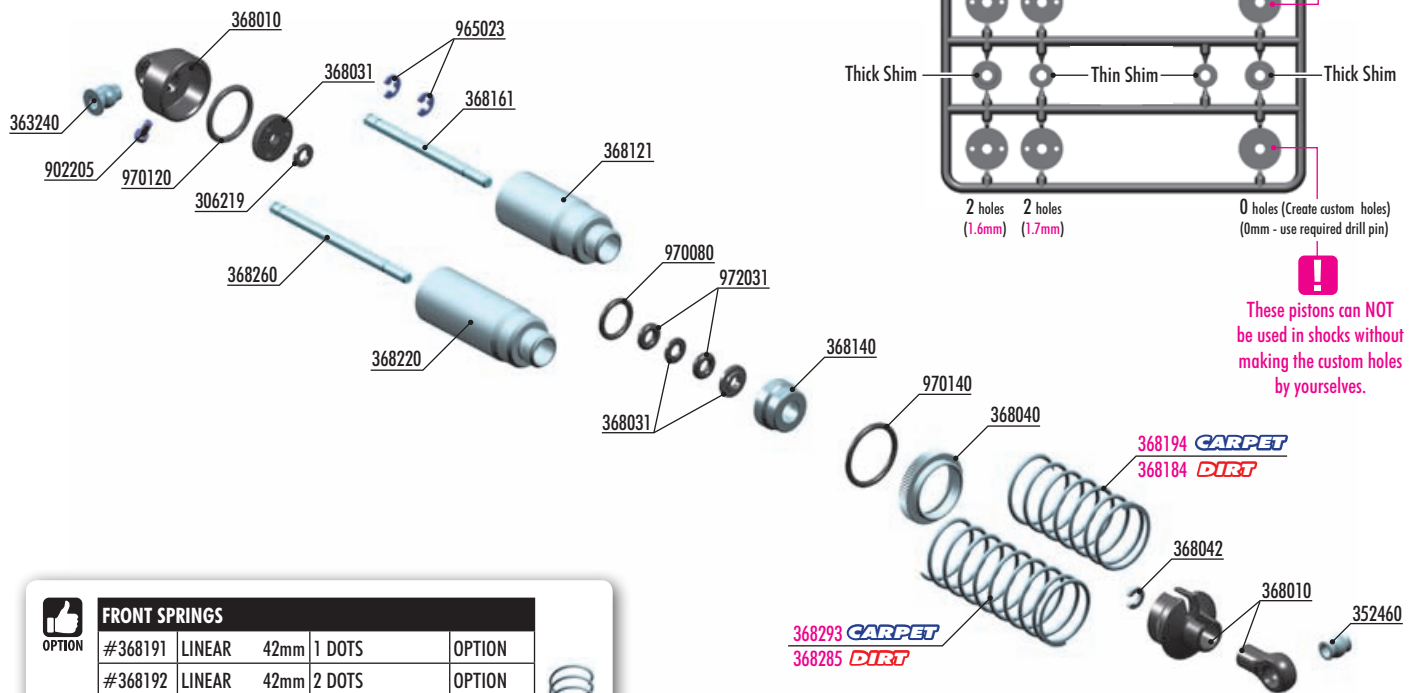
ACTIVE DIFF SEGMENTS			
#325123	60°		OPTION
#325125	90°		INCLUDED
#325127	120°		OPTION

  
902308  
SH M3x8



**REAR**





## FRONT SPRINGS

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



## REAR SPRINGS

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



## FRONT SPRINGS

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



## REAR SPRINGS

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



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



#368021  
ALU SHOCK SPRING RETAINING COLLAR (4)



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



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



BAG

07

306219	COMPOSITE SET OF SERVO SHIMS (4)
352460	PIVOT BALL 5.8 - V3 (10)
363240	BALL UNIVERSAL 5.8MM WITH BACKSTOP (2)
368010	COMPOSITE SHOCK PARTS
368031	SHOCK PISTONS - COMPLETE SET - DERLIN - V2
368040	ALU SHOCK ADJUSTABLE NUT (2)
368042	COMPOSITE SHOCK BUSHING & SHIM FOR ALU CAP (2+2)
368121	ALU FRONT SHOCK BODY 32MM - V2 (2)
368140	ALU LOWER SHOCK BODY CAP (2)
368161	FRONT HARDENED SHOCK SHAFT 42MM (2)
368200	REAR SHOCK ABSORBERS COMPLETE SET (2)
368220	ALU REAR SHOCK BODY (2)
368260	REAR HARDENED SHOCK SHAFT (2)

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

368184	FRONT SPRING SET L=45MM - 2 DOTS (2)
368194	FRONT SPRING SET L=42MM - 4 DOTS (2)
368285	REAR SPRING SET L=60MM - 2 DOTS (2)
368293	REAR SPRING SET L=57MM - 3 DOTS (2)



965023  
C 2.3



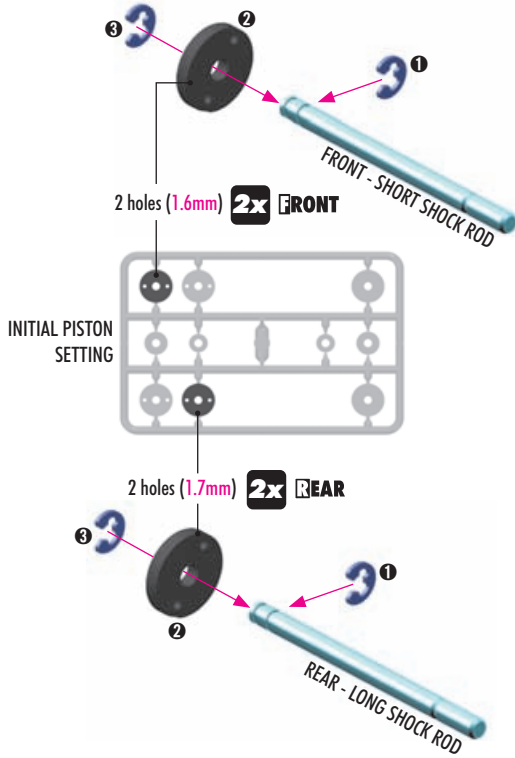
970080  
O 8x1



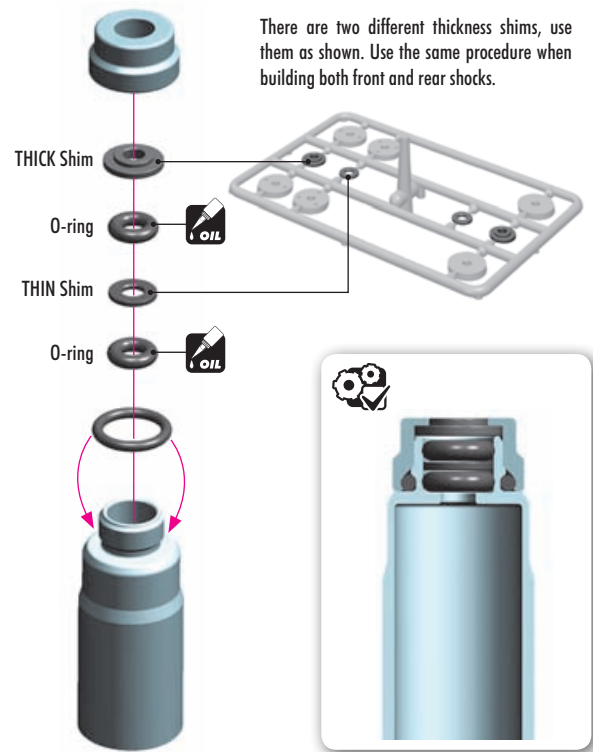
972031  
O 3x2.1

## SET-UP BOOK

SHOCK DAMPING  
SHOCK PISTONS



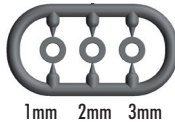
4x



306219  
SHIM 3x6x2

#306219  
DOWNSTOP SHIMS

THICKER shim used, GREATER downstop is achieved.

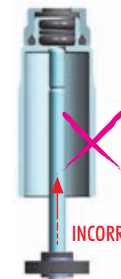


**! IMPORTANT**

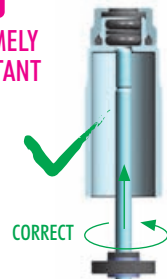
Always use same shim thickness on right and left side to achieve same downstop.



**! EXTREMELY IMPORTANT**



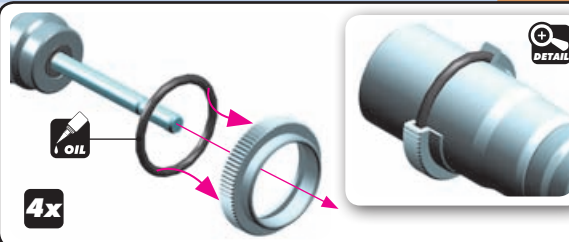
Do not push the shock rod straight through the lower shock body assembly; O-ring damage may result.



Twist the shock rod through the lower shock body assembly.

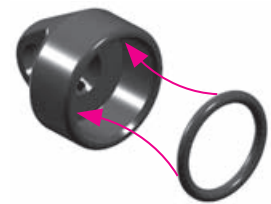


970140  
O 14x1.5

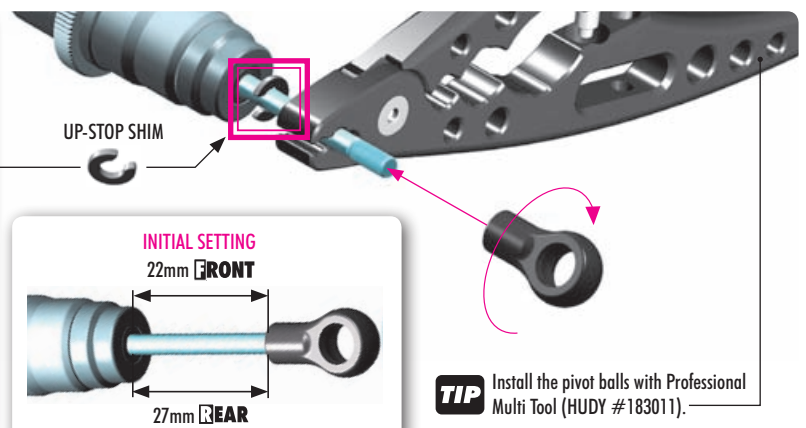
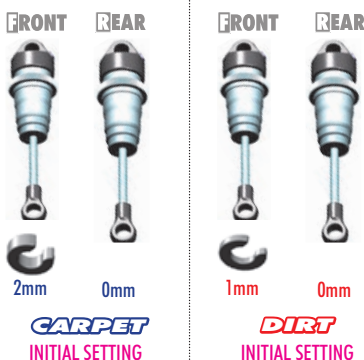


970120  
O 12x1

4x



## UP-STOP "C" SHIMS



## ! IMPORTANT

### UP-STOP TRAVEL SETTINGS

It is very important to have properly set the up-stop travel to avoid damage to the drive shaft and diff outdrives.

To avoid collision of the drive shaft with diff outdrives use the up-stop travel shims to set-up the up-stop travel.

All these settings have influence on the up-stop travel:

- Length of arms (long/short)
- Length of drive shafts
- Shock positions
- Eccentric bushings in suspension holders
- Eccentric bushings in rear uprights
- Camber

UP-STOP SHIM

UP-STOP TRAVEL

ENSURE NO COLLISION

CARPET

DIRT

FRONT (SHORT)  
Oil 700cSt  
REAR (LONG)  
Oil 550cSt

FRONT (SHORT)  
Oil 600cSt  
REAR (LONG)  
Oil 500cSt

### DEFAULT SHOCK REBOUND SETTING 0% REBOUND



1 Extend the shock shaft completely. Fill the shock body with the shock oil. For the FRONT shocks use 700cSt or 600cSt oil. For the REAR shocks use 550cSt or 500cSt oil.



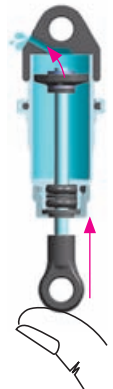
2 Move the shock shaft up and down a few times to release the air bubbles trapped beneath the piston.



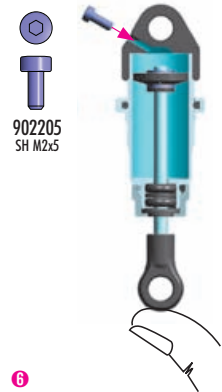
3 Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.



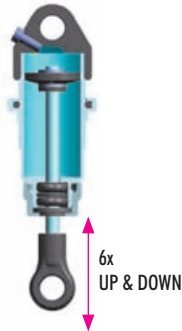
4 Gently place the shock cap onto the filled shock body and start to tighten the cap fully.



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



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



7 6x push the shaft up and down.



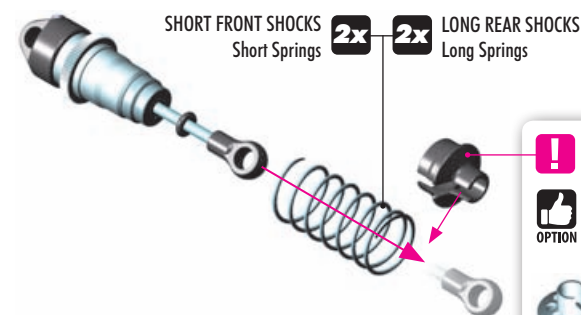
8 Untighten the screw.



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



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



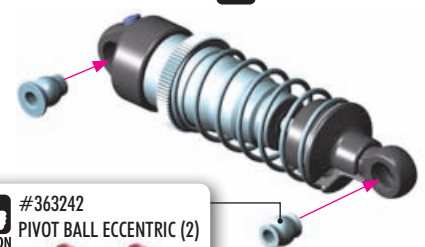
! FOR EXTREMELY LOW RIDE HEIGHT OPTIONAL #368022 MUST BE USED

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



2x FRONT SHOCKS (SHORT)

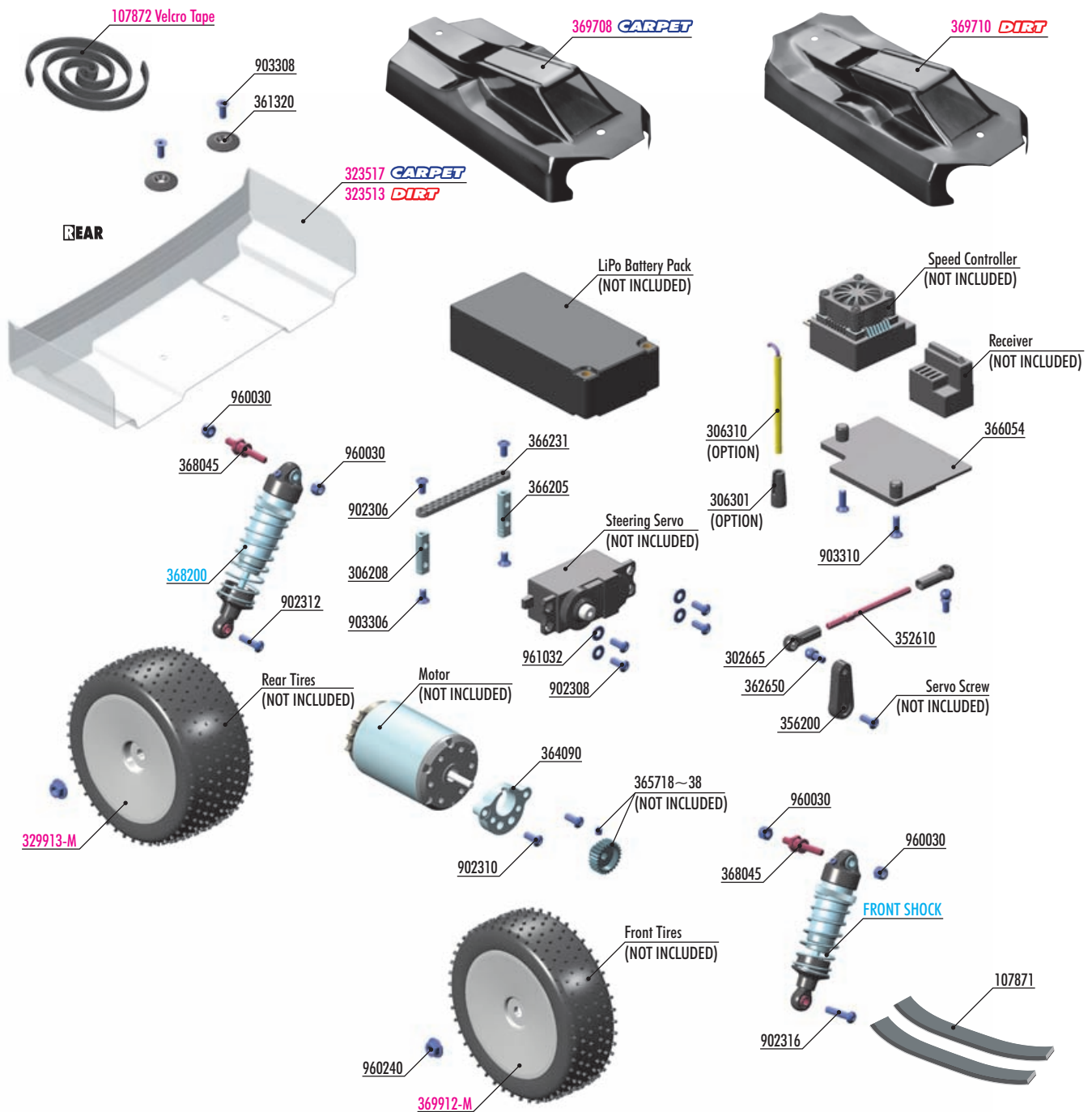
2x REAR SHOCKS (LONG)



#363242  
PIVOT BALL ECCENTRIC (2)

\* Fits only REAR shock absorbers





- 107871 HUDY SELF-ADHESIVE FOAM STRIP (2)
- 302665 COMPOSITE BALL JOINT 4.9MM - CLOSED WITH HOLE (4)
- 306208 ALU SERVO MOUNT 21MM - BOTH SIDES THREADED
- 306301 ANTENNA MOUNT - THIN (OPTION)
- 306310 ANTENNA (2) (OPTION)
- 352610 ADJ. TURNBUCKLE M3 L/R 45 MM - SPRING STEEL™ (2)
- 356200 BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET
- 361320 BODY MOUNT, BATTERY MOUNT - V2 & WING SHIM (2)
- 362650 BALL END 4.9MM WITH THREAD 6MM (2)
- 364090 ALU ECCENTRIC MOTOR BULKHEAD INSERT - V3
- 365718~38 ALU PINION GEAR HARD COATED 18~38T/48 (OPTION)
- 366054 COMPOSITE RADIO PLATE - SHORT
- 366205 ALU SERVO MOUNT 22MM - BOTH SIDES THREADED
- 366231 GRAPHITE SERVO HOLDER 2.2MM
- 368045 STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)

- 902306 HEX SCREW SH M3x6 (10)
- 902308 HEX SCREW SH M3x8 (10)
- 902310 HEX SCREW SH M3x10 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 902316 HEX SCREW SH M3x16 (10)

- 903306 HEX SCREW SFH M3x6 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 903310 HEX SCREW SFH M3x10 (10)
- 960030 NUT M3 (10)
- 961032 WASHER S 3.2 (10)
- 960240 NUT M4 WITH SERRATED FLANGE (10)

- 368200 REAR SHOCK ABSORBERS COMPLETE SET (2)

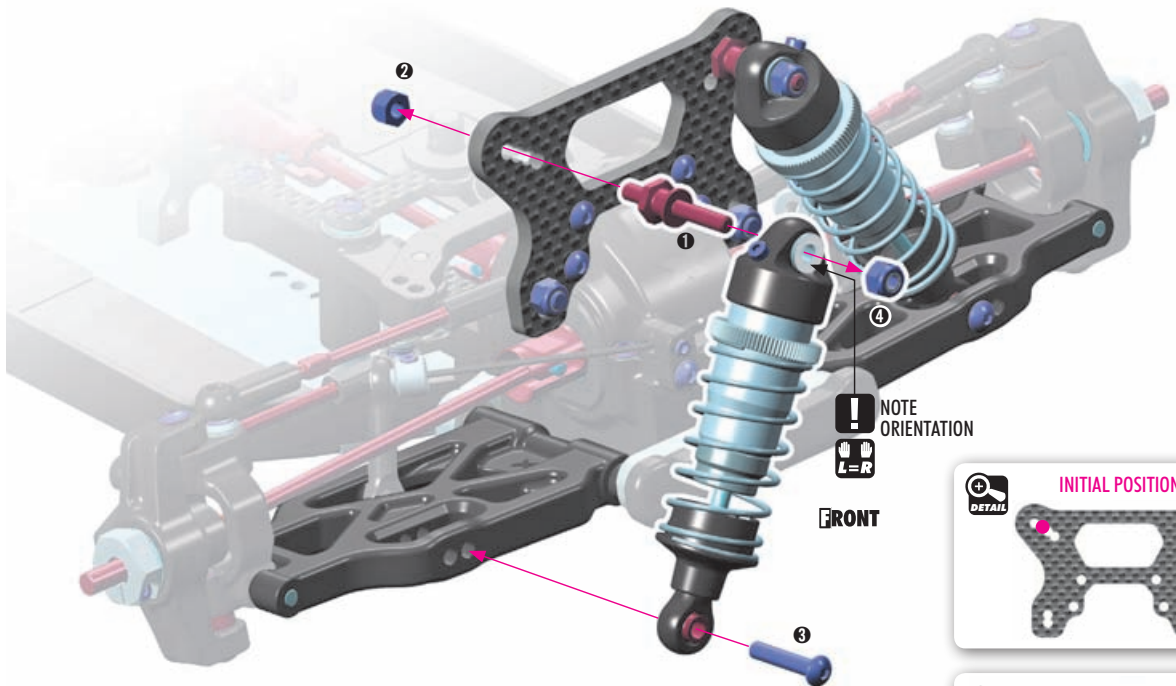
- 107872 VELCRO TAPE WITH DOUBLE SIDED TAPE 8x500MM
- 323513 LEXAN REAR WING - RANK
- 323517 LEXAN REAR WING - TEC
- 329913-M REAR WHEEL AERODISK WITH 12MM HEX IFMAR - WHITE (2)
- 369708 BODY FOR 1/10 4WD OFF-ROAD BUGGY - GAMMA 4C
- 369710 BODY FOR 1/10 4WD OFF-ROAD BUGGY - GAMMA 4D
- 369912-M FRONT WHEEL AERODISK WITH 12MM HEX IFMAR - WHITE (2)



902316  
SH M3x16



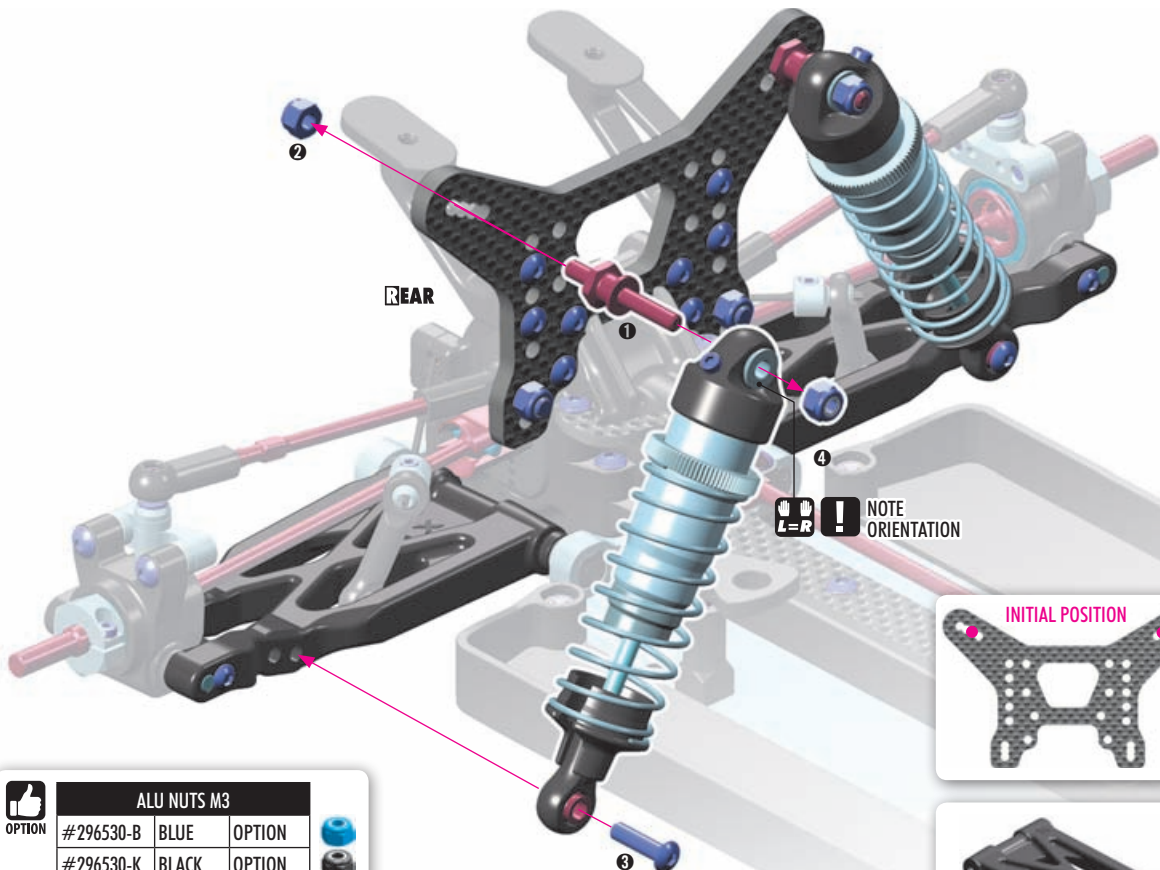
960030  
N M3



902312  
SH M3x12



960030  
N M3

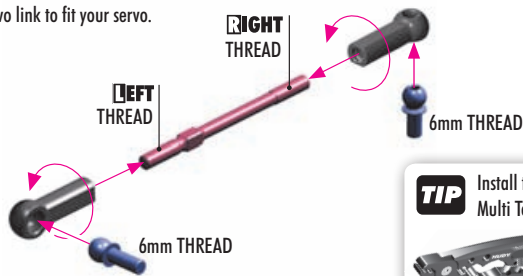


ALU NUTS M3		
#296530-B	BLUE	OPTION
#296530-K	BLACK	OPTION
#296530-O	ORANGE	OPTION
#960031	SILVER	OPTION



## SERVO LINK

Adjust servo link to fit your servo.



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



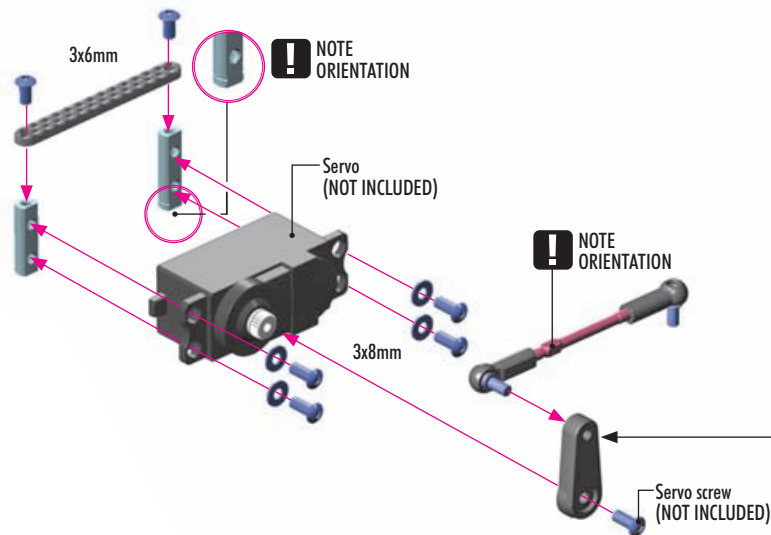
902306  
SH M3x6



902308  
SH M3x8



961032  
SHIM S 3.2



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

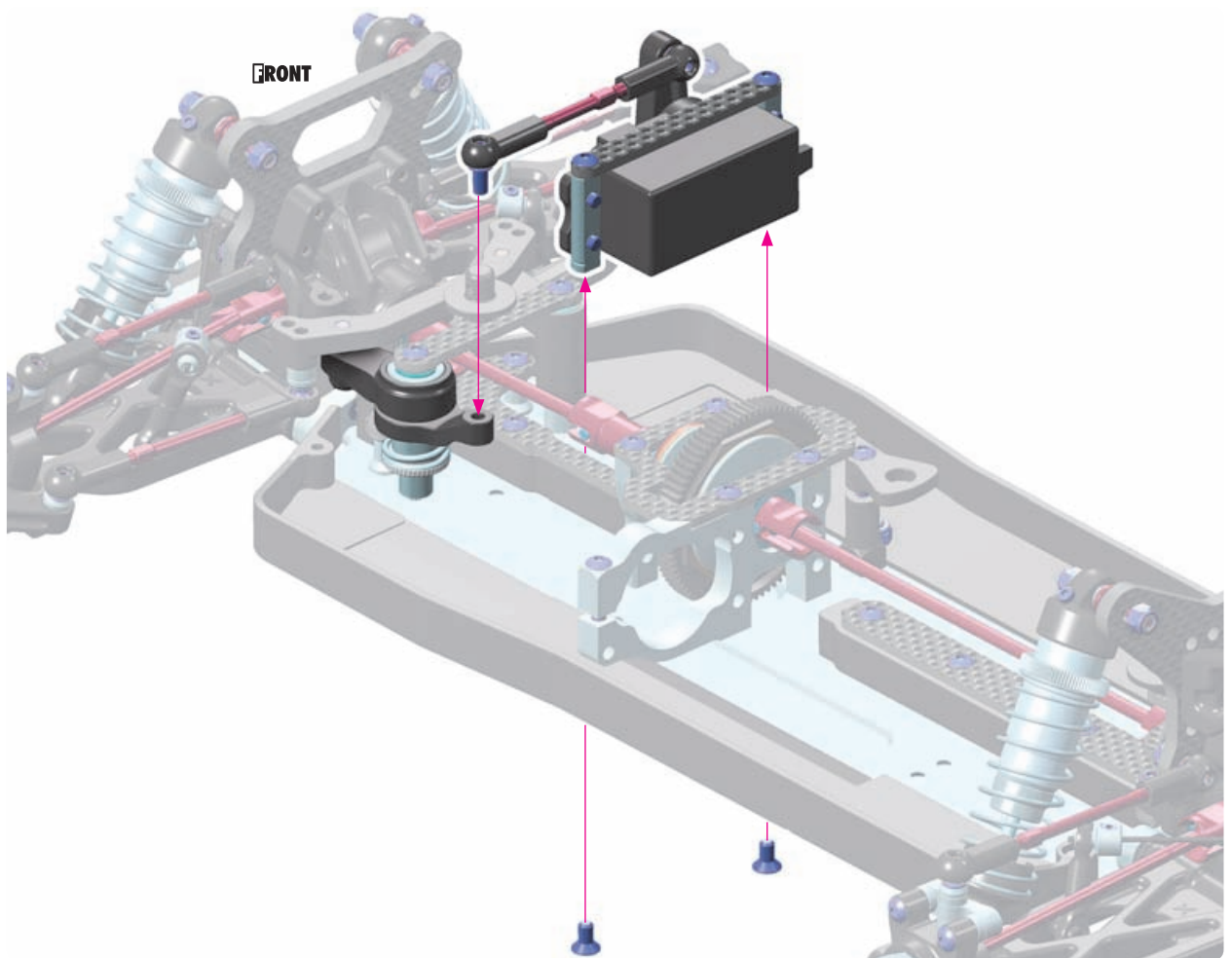
HUDY CLAMP ALU SERVO HORNS		
#293404	23T	
#293405	24T	
#293406	25T	

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

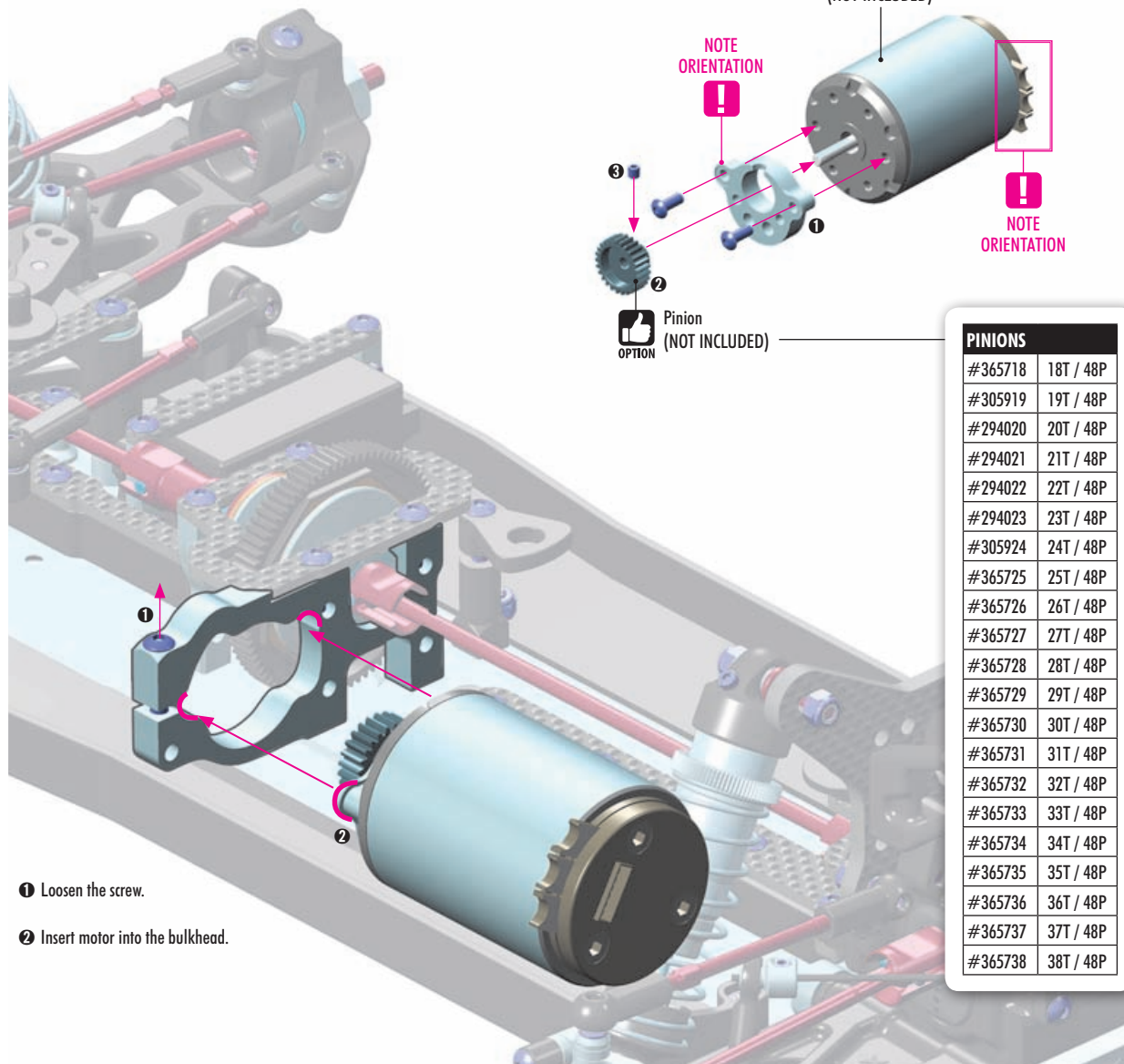
USE APPROPRIATE SERVO ARM:



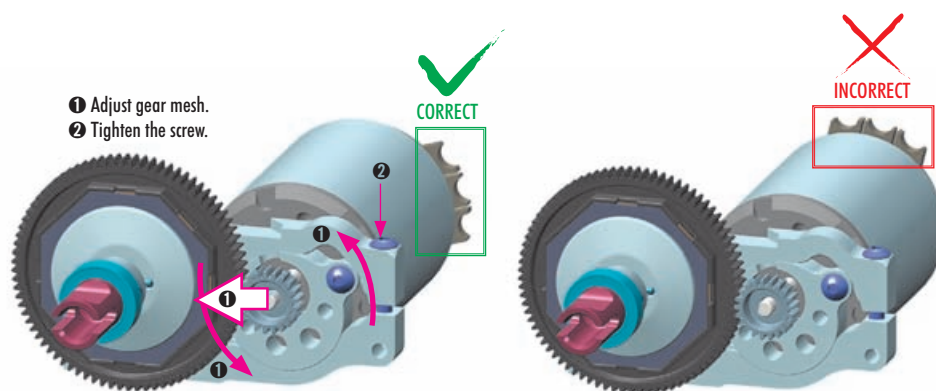
903306  
SFH M3x6





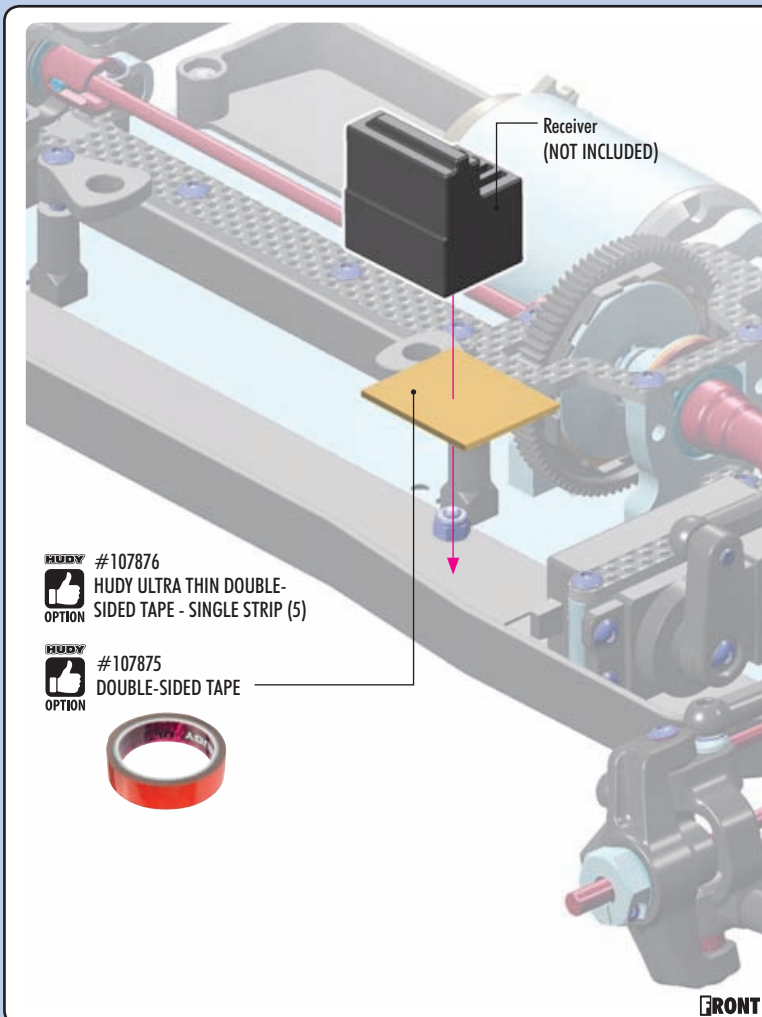
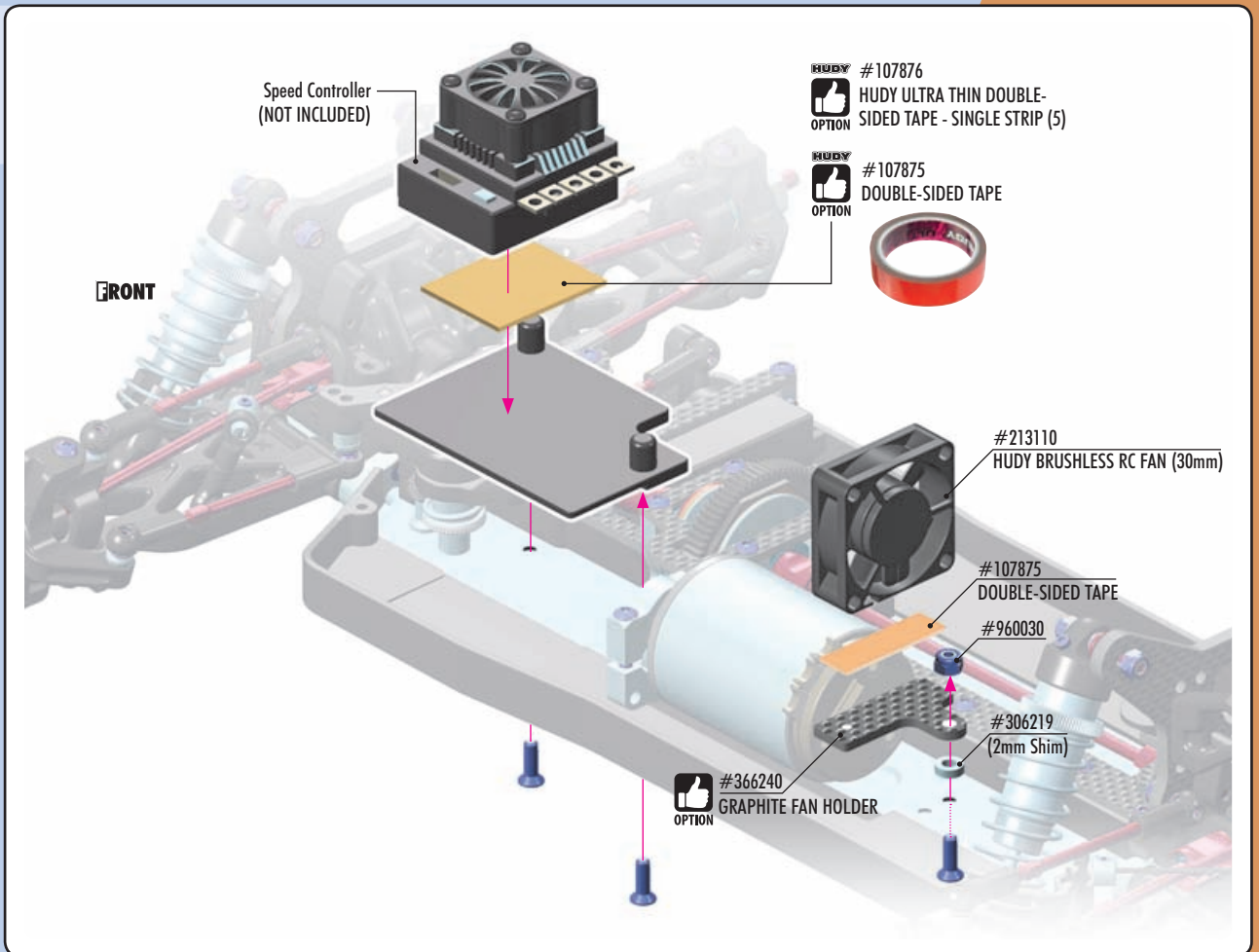
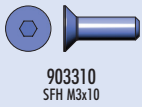
902310  
SH M3x10

PINIONS	
#365718	18T / 48P
#305919	19T / 48P
#294020	20T / 48P
#294021	21T / 48P
#294022	22T / 48P
#294023	23T / 48P
#305924	24T / 48P
#365725	25T / 48P
#365726	26T / 48P
#365727	27T / 48P
#365728	28T / 48P
#365729	29T / 48P
#365730	30T / 48P
#365731	31T / 48P
#365732	32T / 48P
#365733	33T / 48P
#365734	34T / 48P
#365735	35T / 48P
#365736	36T / 48P
#365737	37T / 48P
#365738	38T / 48P

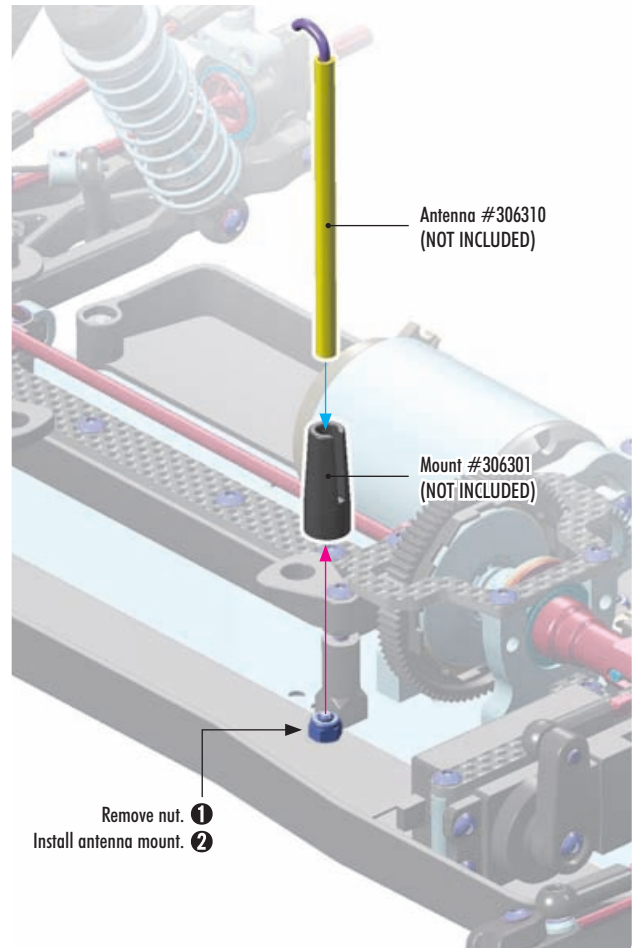


Adjust the motor so the pinion meshes with the spur gear properly. Make sure the gear mesh is not too tight.

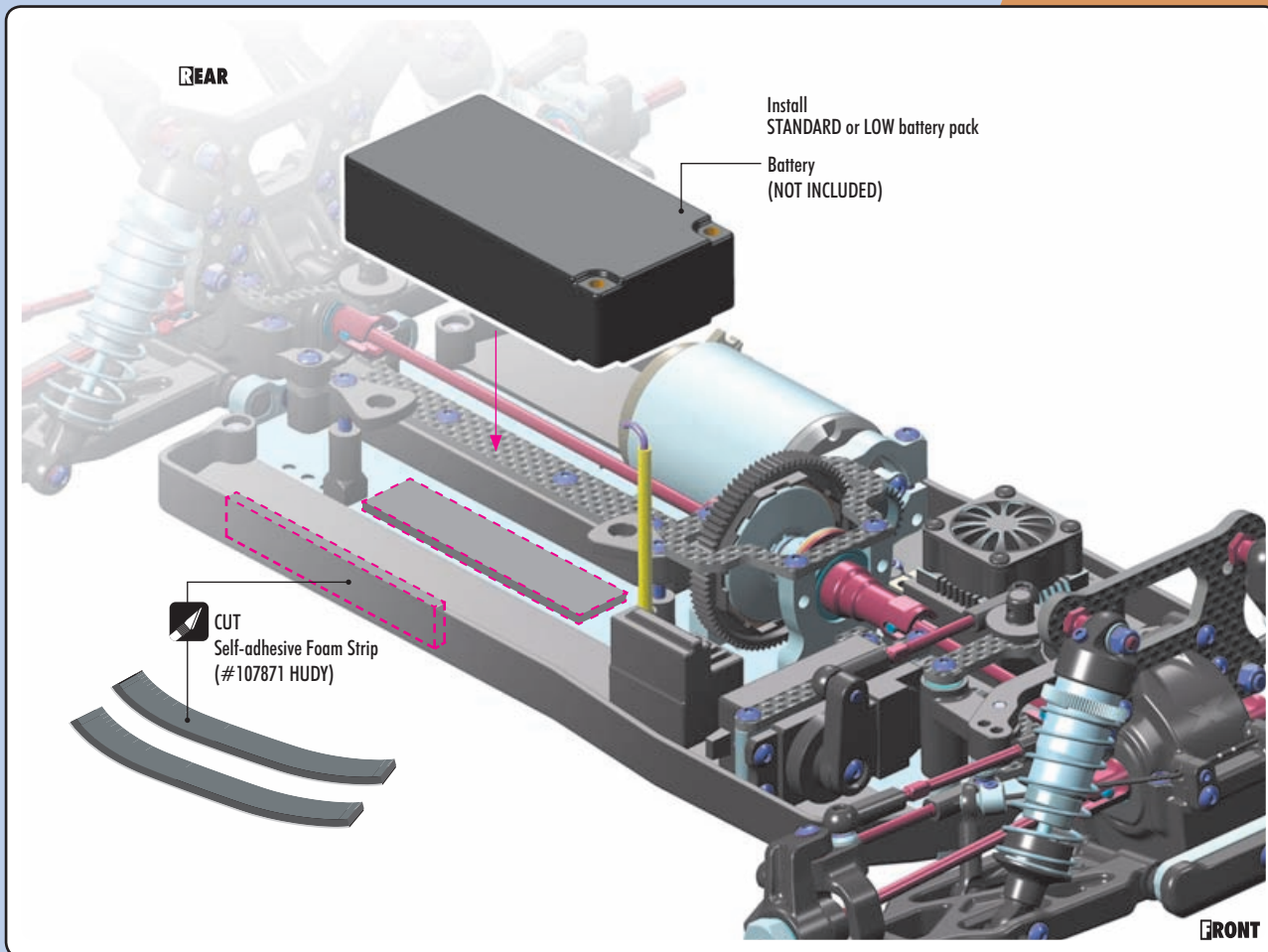
There should be a small amount of play between the teeth of the pinion gear and the spur gear.



## ANTENNA ALTERNATIVE (OPTION)

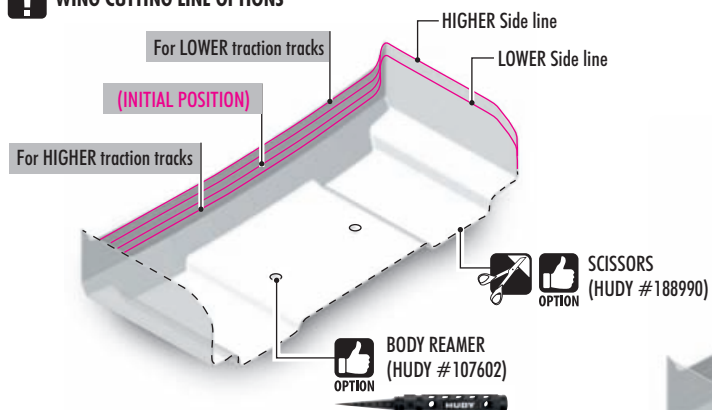






903308  
SFH M3x8

### WING CUTTING LINE OPTIONS



OPTION

#### REAR WING SHIM

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



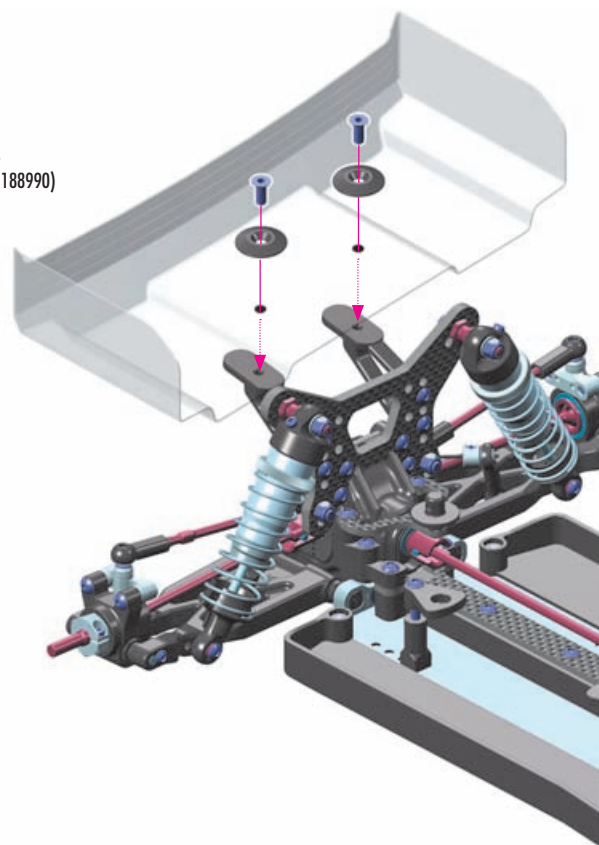
OPTION

#### XRAY LEXAN REAR WING

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

#### XRAY LEXAN CENTER FIN

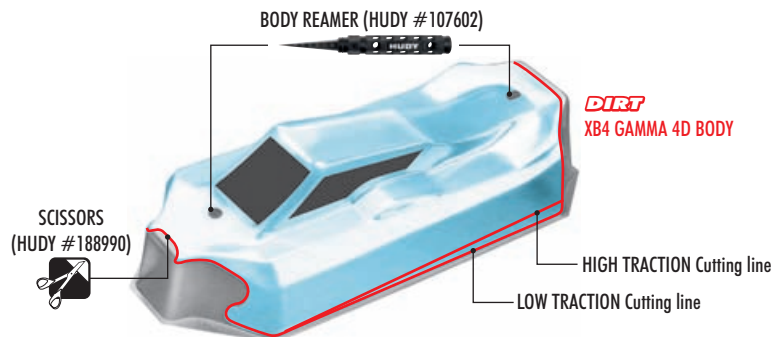
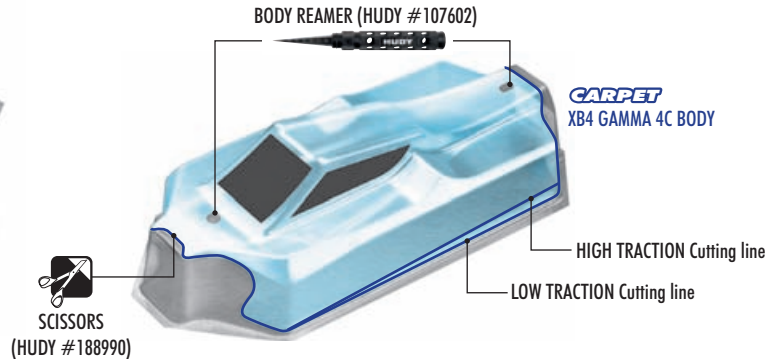
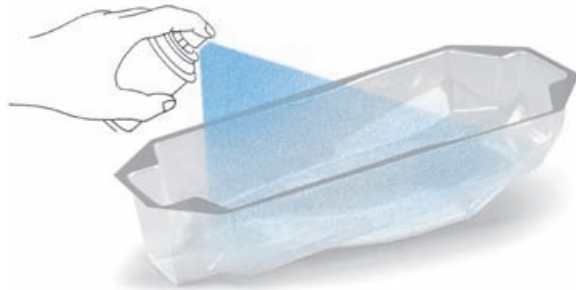
#323515	1.0mm	ZAP	OPTION
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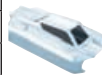
- ❶ Before cutting and making holes on the BODY, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts. Before cutting and making holes on the WING, put the unpainted wing on the wing holders to confirm the mounting position and location for holes and cutouts.
- ❷ Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
- ❸ Mask all windows.

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

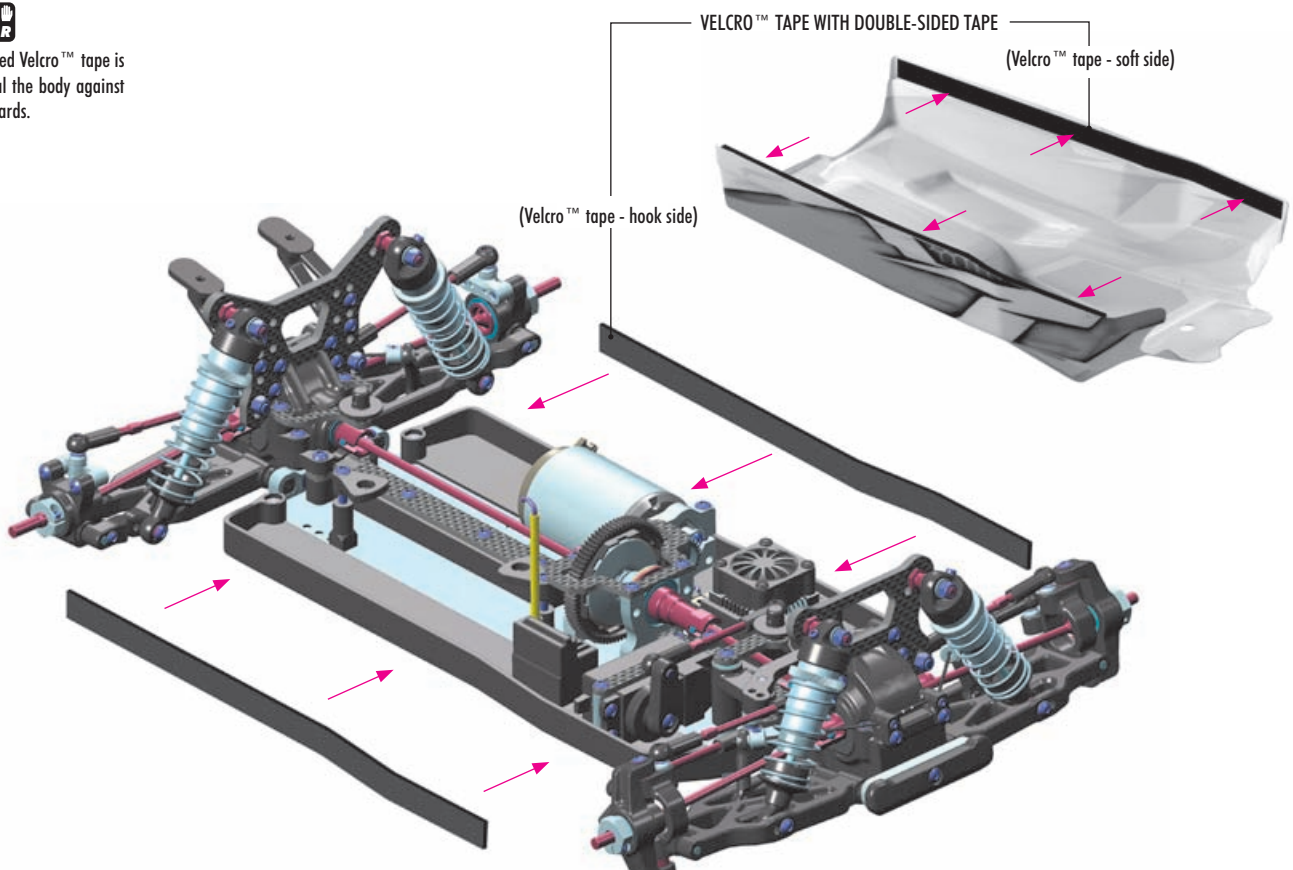


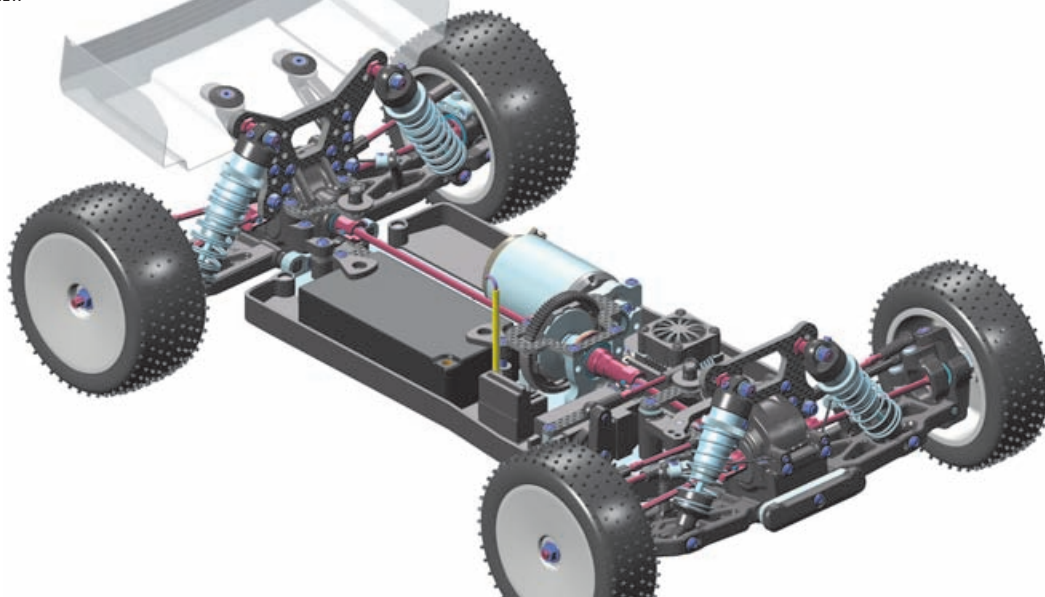
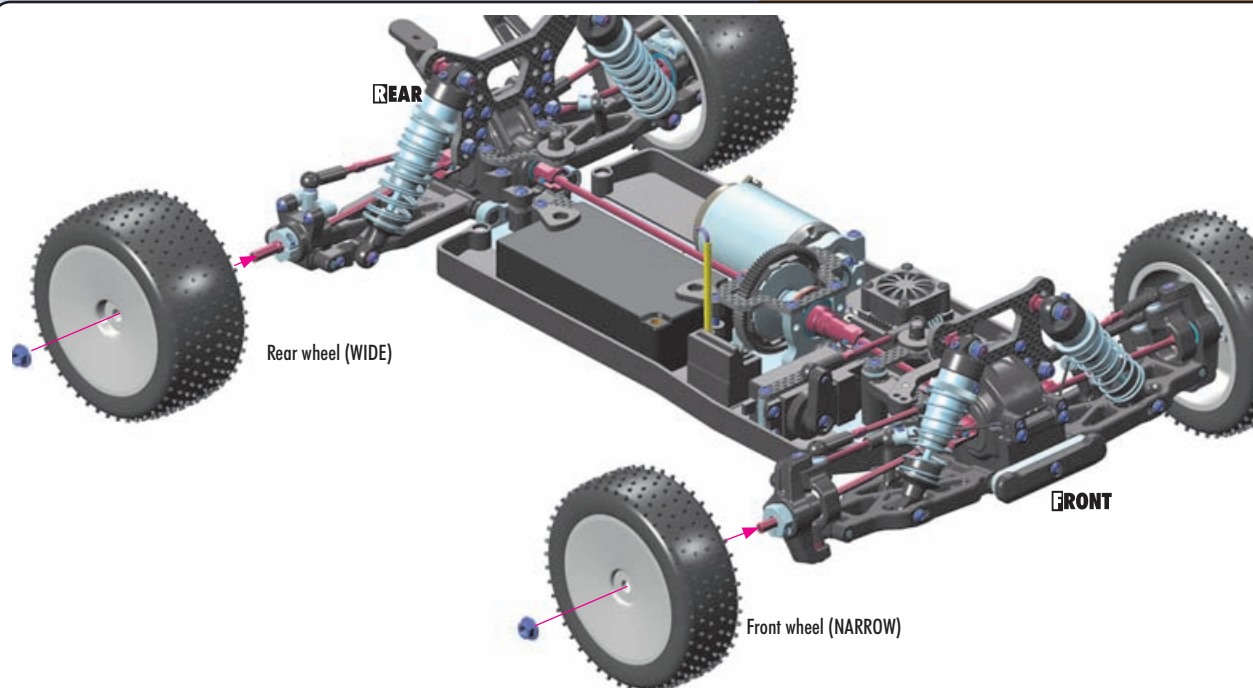
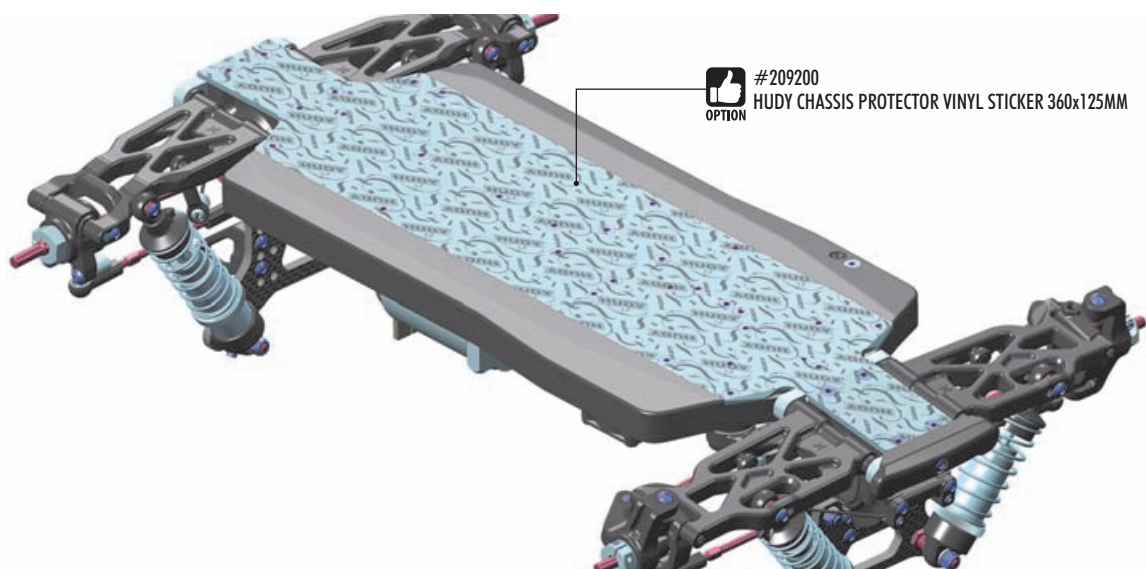
## XRAY LEXAN BODY

OPTION	#369708	0.75mm	GAMMA 4C	INCLUDED
	#369709	0.50mm	GAMMA 4CL	OPTION
	#369710	0.75mm	GAMMA 4D	INCLUDED
	#369711	0.50mm	GAMMA 4DL	OPTION



Double-sided Velcro™ tape is used to seal the body against the side guards.





## SHOCK MAINTENANCE

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

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

## BEARING MAINTENANCE

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

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

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

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

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

### RECOMMENDED PRODUCTS

- Use correct oil or grease to lubricate the bearings:  
#106230 HUDY Bearing Oil  
#106220 HUDY Bearing Grease - Standard  
#106221 HUDY Bearing Grease - Blue  
#106222 HUDY Bearing Grease - Red



## SUSPENSION & DRIVETRAIN MAINTENANCE

- Check suspension for free movement during building and operation, and especially after running and if you have crashed the car. If the suspension does not move freely, use the appropriate HUDY Arm Reamer to clean and resize the holes of the suspension arms.
- Regularly check the drive shaft pins (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.



#106210 HUDY GRAPHITE GREASE

or

#106213 HUDY JOINT GREASE

## 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 XB4'22

RACE	
TRACK	
NAME	DATE

LAPS		BEST LAP TIME	sec
QUALIFYING POSITION		FINAL POSITION	

TRACK		
SIZE	<input type="checkbox"/> OPEN	<input type="checkbox"/> MEDIUM
TRACTION	<input type="checkbox"/> VERY-LOW <input type="checkbox"/> MEDIUM <input type="checkbox"/> VERY-HIGH	
SURFACE	<input type="checkbox"/> SMOOTH	<input type="checkbox"/> MEDIUM
TYPE	<input type="checkbox"/> CLAY	<input type="checkbox"/> CARPET
CONDITION	<input type="checkbox"/> BLUE GROOVE	<input type="checkbox"/> HARD PACKED
	<input type="checkbox"/> DUSTY	<input type="checkbox"/> LOAMY

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"/>
ACTIVE DIFF <input type="checkbox"/>	ACTIVE DIFF <input type="checkbox"/>	ACTIVE DIFF <input type="checkbox"/>
60° 90° 120°	60° 90° 120°	60° 90° 120°
OIL <input type="checkbox"/>	OIL <input type="checkbox"/>	OIL <input type="checkbox"/>

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"/>
40T <input type="checkbox"/>	CROWN GEAR	40T <input type="checkbox"/>

CENTRAL SLIPPER & ONE-WAY SETTING	
	ONE-WAY TIGHTNESS
SLIPPING ADJUSTMENT	LOOSE
	1 CCW TURN (BASIC SETUP)
	FULLY TIGHTEN

GEARING	
PINION	CENTER DIFF SPUR

FRONT	SHOCKS	REAR
	SPRINGS	
	OIL	
	REBOUND	
<input type="checkbox"/> 2 HOLES <input type="checkbox"/> 3 HOLES <input type="checkbox"/> 6 HOLES	PISTONS <input type="checkbox"/> ø1.2mm <input type="checkbox"/> ø1.3mm <input type="checkbox"/> ø1.4mm <input type="checkbox"/> ø1.6mm <input type="checkbox"/> ø1.7mm CUSTOM PISTONS <input type="checkbox"/> mm <input type="checkbox"/> mm	<input type="checkbox"/> 2 HOLES <input type="checkbox"/> 3 HOLES <input type="checkbox"/> 6 HOLES

FRONT	ANTI ROLL BAR	REAR
	THICKNESS	

FRONT	TIRES	REAR
	BRAND	
	COMPOUND	
	INSERTS	
	WHEELS	

ELECTRONICS	
MOTOR	SPEEDO
MOTOR TIMING	BATTERY
BATTERY SIZE	
STD. SHORT <input type="checkbox"/> LOW SHORT <input type="checkbox"/>	

BODY	
TYPE	STANDARD <input type="checkbox"/> LIGHT <input type="checkbox"/>

COMMENTS	

FRONT	APPLIED <input type="checkbox"/> <input checked="" type="checkbox"/> APPLIED	REAR
ALU C-HUB SHIM LONGER BUSHINGS UP <input type="checkbox"/> DOWN <input type="checkbox"/> DRIVE SHAFT CVD <input type="checkbox"/> ECS <input type="checkbox"/> Length /mm SHIM mm STEERING BLOCK MEDIUM <input type="checkbox"/> HARD <input type="checkbox"/> GRAPHITE <input type="checkbox"/> ALU <input type="checkbox"/> LOWER SHOCK POSITION #107711 GAUGE mm DOWNSTOP	4 3 2 1 2 1 HUBDY #107701 SUPPORT BLOCKS DOWNSTOP mm	REAR UPRIGHT DRIVE SHAFT Length /mm SHIM mm SHIMS /mm HARD <input type="checkbox"/> GRAPHITE <input type="checkbox"/> ALU <input type="checkbox"/> #325341 ADJ. DRIVE AXLE 1 2 3 4 1° <input type="checkbox"/> 0.5° <input type="checkbox"/> #107711 GAUGE mm

FRONT	CASTER	CASTER BLOCK	WING CUTTING LINE	WING SIDE LINE
CASTER 6° <input type="checkbox"/> 7° <input type="checkbox"/> 9° <input type="checkbox"/> 12° <input type="checkbox"/> OFFSET mm BUMP STEER SHIM mm	6° <input type="checkbox"/> 7° <input type="checkbox"/> 9° <input type="checkbox"/> 12° <input type="checkbox"/> MEDIUM <input type="checkbox"/> HARD <input type="checkbox"/> GRAPHITE <input type="checkbox"/> ALU <input type="checkbox"/>	1 2 3 4 5 OFFSET /slots UPRIGHT WHEELBASE SHIM /mm IN FRONT OF ARM	HIGHER <input type="checkbox"/> LOWER <input type="checkbox"/> WING POSITION UP <input type="checkbox"/> MIDDLE <input type="checkbox"/> DOWN <input type="checkbox"/> WING THICKNESS 0.75 <input type="checkbox"/> 1 <input type="checkbox"/> 1.5 <input type="checkbox"/> TYPE	

FF	FR	ROLL CENTER	RF	RR
1° <input type="checkbox"/> 0.5° <input type="checkbox"/> 1° <input type="checkbox"/> 0.5° <input type="checkbox"/>	1° <input type="checkbox"/> 0.5° <input type="checkbox"/> 1° <input type="checkbox"/> 0.5° <input type="checkbox"/>	1° <input type="checkbox"/> 0.5° <input type="checkbox"/> 1° <input type="checkbox"/> 0.5° <input type="checkbox"/>	1° <input type="checkbox"/> 0.5° <input type="checkbox"/> 1° <input type="checkbox"/> 0.5° <input type="checkbox"/>	1° <input type="checkbox"/> 0.5° <input type="checkbox"/> 1° <input type="checkbox"/> 0.5° <input type="checkbox"/>

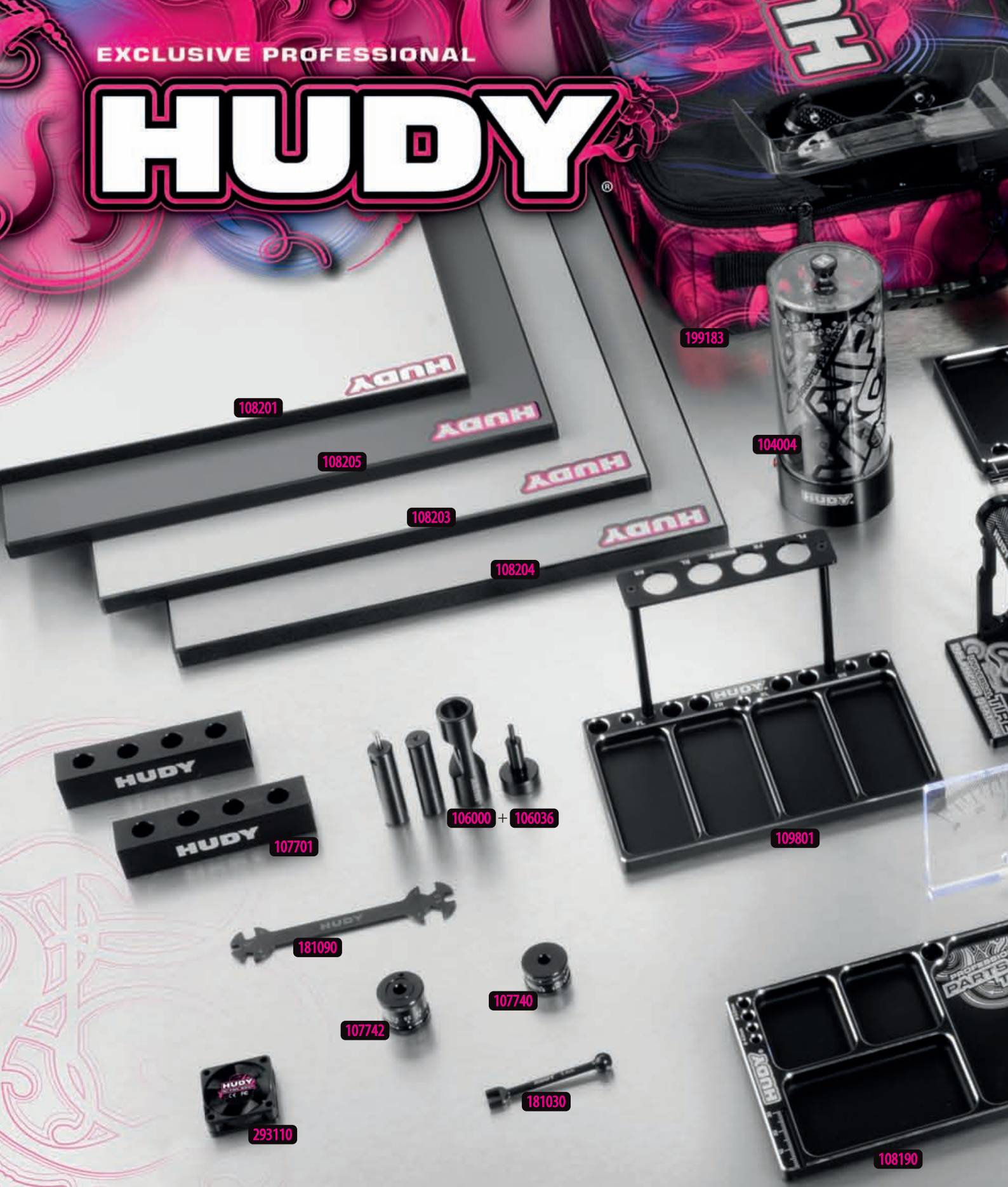
FRONT	STEER. PLATE	REAR TOE	GRAPHITE FOR REAR BRACE	REAR BRACE	ARM SHIM
FRONT TOE OUT <input type="checkbox"/> IN <input type="checkbox"/> ALU STEERING PLATE #362574 2 1 2 1 ARM SHIM mm	HARD <input type="checkbox"/> GRAPHITE <input type="checkbox"/> ALU <input type="checkbox"/> BUMP STEER SHIM mm SHIM UNDER STEER. PLATE SERVO SAVER SOFT <input type="checkbox"/> MEDIUM <input type="checkbox"/> TIGHT <input type="checkbox"/> MATERIAL STANDARD <input type="checkbox"/> GRAPHITE <input type="checkbox"/>	REAR TOE IN <input type="checkbox"/> OUT <input type="checkbox"/> #36242 PIVOT BALL ECCENTRIC FRONT <input type="checkbox"/> REAR <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	MEDIUM <input type="checkbox"/> HARD <input type="checkbox"/>	mm

FRONT	FRONT CAMBER	FRONT DIFF HEIGHT	REAR DIFF HEIGHT	REAR CAMBER
DOWNSTOP SHIM mm LENGTH mm UPSTOP SHIM mm COLLAR STANDARD <input type="checkbox"/> -2mm <input type="checkbox"/>	FRONT CAMBER mm DOWNSTOP SHIM mm LENGTH mm UPSTOP SHIM mm COLLAR STANDARD <input type="checkbox"/> -2mm <input type="checkbox"/>	FRONT DIFF HEIGHT mm RIDE HEIGHT #107720 GAUGE mm	REAR DIFF HEIGHT mm RIDE HEIGHT #107720 GAUGE mm	REAR CAMBER mm DOWNSTOP SHIM mm LENGTH mm UPSTOP SHIM mm COLLAR STANDARD <input type="checkbox"/> -2mm <input type="checkbox"/>

FRONT ARMS	BALANCE	SIDE GUARDS	BALANCE	REAR ARMS
LONG <input type="checkbox"/> SHORT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HARD <input type="checkbox"/> GRAPHITE <input type="checkbox"/>	BALANCE g	HARD <input type="checkbox"/> GRAPHITE <input type="checkbox"/>	BALANCE g	LONG <input type="checkbox"/> SHORT <input type="checkbox"/> MEDIUM <input type="checkbox"/> HARD <input type="checkbox"/> GRAPHITE <input type="checkbox"/>
T-BRACE 1 2 3 4 35g FRONT BATTERY POST REAR BATTERY POST BALANCE g BALANCE g				
CHASSIS FLEX SCREW USED <input type="checkbox"/> SCREW NOT USED <input type="checkbox"/>				

EXCLUSIVE PROFESSIONAL

# HUDY



104004 HUDY AIR VAC - VACUUM PUMP - 1/10 OFF-ROAD  
 105500 HUDY UNIVERSAL TIRE BALANCING STATION  
 105520 WHEEL ADAPTER FOR 1/10 TOURING CARS - 12MM  
 106000 HUDY DRIVE PIN REPLACEMENT TOOL (FOR 3MM PINS)  
 106036 EJECTOR PIVOT PIN & ALTERNATING PIVOT 2.5MM FOR #106000  
 107090 HUDY BEARING CHECKING TOOL  
 107601 LIMITED EDITION - REAMER FOR BODY Ø-9MM + COVER - SMALL  
 107701 CHASSIS DROOP GAUGE SUPPORT BLOCKS 20MM FOR 1/8 - LW(2)  
 107740 HUDY ADJUSTABLE RIDE HEIGHT GAUGE 14-20MM  
 107742 HUDY ADJUSTABLE RIDE HEIGHT GAUGE 20-30MM  
 107855 HUDY PIT LED  
 107880 CHASSIS BALANCING TOOL (2)

108160 HUDY 1/10 OFF-ROAD CAR STAND - V2  
 108190 HUDY ALU TRAY FOR PARTS  
 108201 FLAT SET-UP BOARD FOR 1/10 TOURING CARS  
 108203 FLAT SET-UP BOARD FOR 1/10 TOURING CARS - SILVER GREY  
 108204 FLAT SET-UP BOARD FOR 1/10 TOURING CARS - TITAN  
 108205 FLAT SET-UP BOARD FOR 1/10 TOURING CARS - DARK GREY  
 108905 UNIVERSAL EXCLUSIVE SET-UP SYSTEM FOR 1/10 OFF-ROAD CARS  
 108960 ALU NUT FOR 1/10 OFF-ROAD SET-UP SYSTEM (4)  
 109801 HUDY ALU TRAY FOR 1/10 OFF-ROAD DIFF & SHOCKS  
 109840 HUDY ALU TRAY FOR 1/10 OFF-ROAD DIFF ASSEMBLY  
 109860 HUDY ALU TRAY FOR SET-UP SYSTEM  
 109880 HUDY ALU TRAY FOR ACCESSORIES & PIT LED





- 111545 LIMITED EDITION - ALLEN WRENCH # 1.5MM  
 112045 LIMITED EDITION - ALLEN WRENCH # 2.0MM  
 132045 LIMITED EDITION - ALLEN WRENCH + BALL REPL. TIP # 2.0MM  
 153055 LIMITED EDITION - SLOTTED SCREWDRIVER # 3.0MM - LONG  
 175535 LIMITED EDITION - SOCKET DRIVER # 5.5MM  
 177035 LIMITED EDITION - SOCKET DRIVER # 7.0MM  
 181030 HUDY SPRING STEEL TURNBUCKLE WRENCH 3 MM  
 181090 HUDY SPECIAL TOOL FOR TURNBUCKLES & NUTS  
 183011 HUDY PROFESSIONAL MULTI TOOL  
 188990 HUDY PROFESSIONAL BODY SCISSORS  
 199060 HUDY ALU TOOL STAND  
 199183 HUDY CAR BAG - 1/10 OFF-ROAD

- 199270 HUDY LIPO SAFETY BAG  
 293110 HUDY BRUSHLESS RC FAN 30MM  
 298100 HUDY TIN ROUND BOX 80X30MM  
 293110XL HUDY BRUSHLESS RC FAN 30MM - SET OF 12PCS

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

[www.hudy.net](http://www.hudy.net)





**[www.teamxray.com](http://www.teamxray.com)**

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