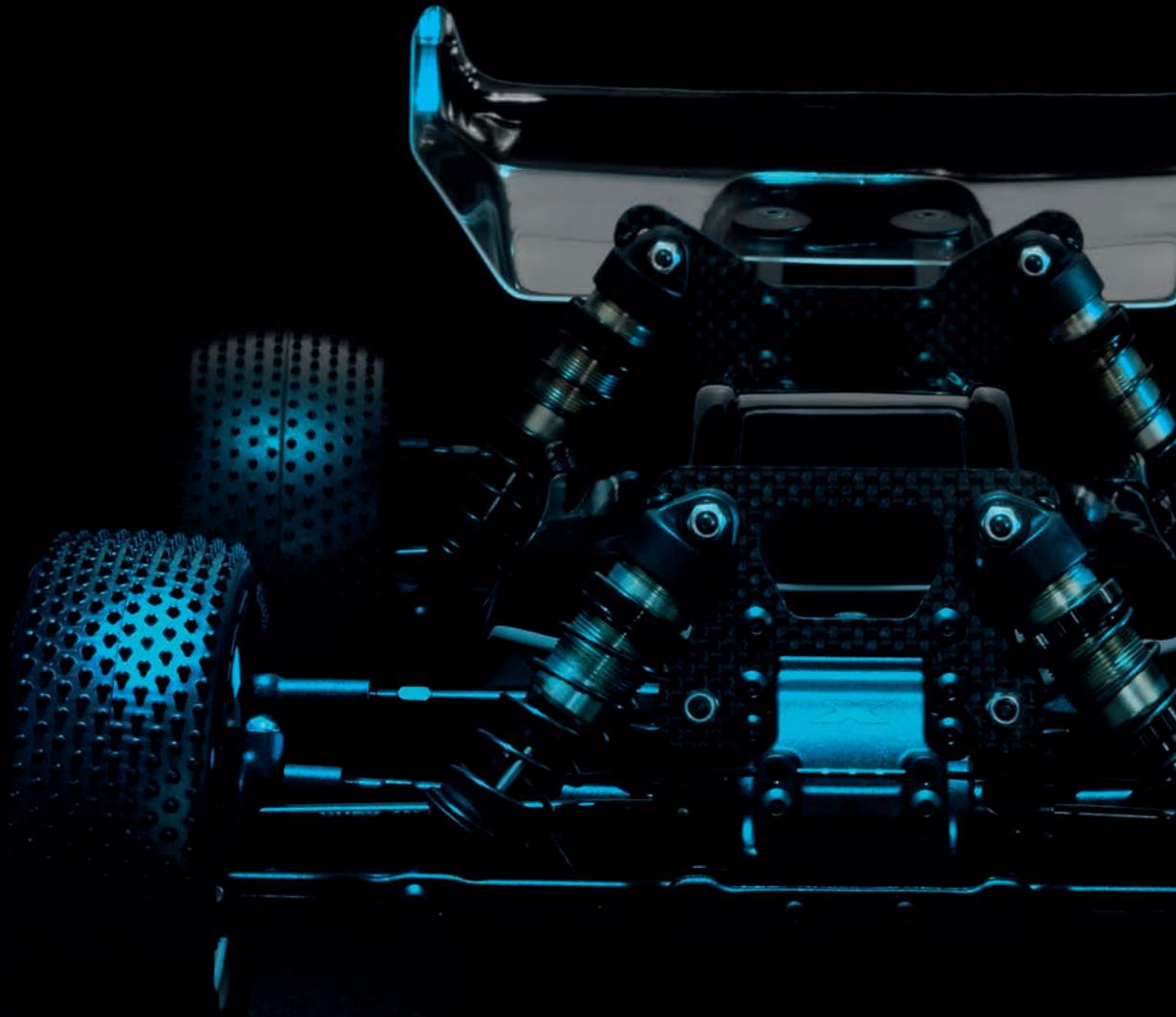


1/10 ELECTRIC OFF-ROAD BUGGY 4WD

XRAY XB4



INSTRUCTION MANUAL
FOR XB4C'26 & XB4D'26 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. Also, please visit our Web site at www.teamxray.com to find the latest updates, set-up information, option parts, and many other goodies. We pride ourselves on taking excellent care of our customers.

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

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

K Vystavisku 6992
91101 Trenčín
Slovakia, EUROPE
Phone: 421-32-7401100
Fax: 421-32-7401109
E-mail: 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

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

SAFETY PRECAUTIONS

Contains:

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

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

CAUTION: CANCER HAZARD

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

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

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

authentic XRAY parts for maximum performance. Using any third party parts on this model will void warranty immediately.

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



IMPORTANT NOTES – GENERAL

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

IMPORTANT NOTES – ELECTRICAL

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

Please support your local hobby shop. We at XRAY Model Racing Cars support all local hobby dealers. Therefore we ask you, if at all possible, to purchase XRAY products at your hobby dealer and give them your support like we do.

If you have difficulty finding XRAY products, please check out www.teamxray.com to get advice, or contact us via email at info@teamxray.com, or contact the XRAY distributor in your country.

WARRANTY

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

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will NOT cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This includes but is NOT limited to damage from crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the

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

LIMITATIONS OF LIABILITY.

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

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

Disregard of the any of the above cautions may lead to accidents, personal injury, or property damage.

XRAY MODEL RACING CARS assumes no responsibility for any injury, damage, or misuse of this product during assembly or operation, nor any addictions that may arise from the use of this product.

All rights reserved.

QUALITY CERTIFICATE

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

competition, we cannot guarantee any parts once you start racing the car. Products which have been worn out, abused, neglected or improperly operated will NOT be covered under warranty. We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

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

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

TOOLS REQUIRED

<p>Short Socket Wrench # 5.5mm (HUDY #170004)</p> 	<p>Allen 1.5mm (#111545 - HUDY EXCLUSIVE Limited Edition)</p> 
<p>Pocket Hobby Knife (HUDY #188981)</p> 	<p>Allen 2.0mm (#112045 - HUDY EXCLUSIVE Limited Edition)</p> 
<p>Special Tool for turnbuckles, nuts (HUDY #181090)</p> 	<p>Arm Reamer 3.0mm (#107643 - HUDY EXCLUSIVE Limited Edition)</p> 
<p>Turnbuckle Wrench 3.5mm (HUDY #181035)</p> 	<p>Socket 5.5mm (#175535 - HUDY EXCLUSIVE Limited Edition)</p> 
<p>Turnbuckle Wrench 3mm (HUDY #181030)</p> 	<p>Socket 7.0mm (#177035 - HUDY EXCLUSIVE Limited Edition)</p> 
<p>Turnbuckle Wrench 3.5mm (HUDY #181036)</p> 	<p>Reamer (#107602 - HUDY EXCLUSIVE Limited Edition)</p> 
<p>HUDY Tweezers Straight (HUDY #188970)</p> 	<p>Scissors (HUDY #188990)</p> 
<p>HUDY Tweezers Curved (HUDY #188971)</p> 	<p>Professional Multi Tool (HUDY #183011)</p> 
	<p>Ball Joint Wrench (HUDY #181110)</p> 

EQUIPMENT INCLUDED

<p>300cSt (#106330) HUDY Premium Silicone Oils</p>  <p>SILICONE OIL</p> <p>CARPET DIRT</p>	<p>350cSt (#106335) HUDY Premium Silicone Oils</p>  <p>SILICONE OIL</p> <p>CARPET DIRT</p>	<p>30.000cSt (#106530) HUDY Premium Silicone Oils</p>  <p>SILICONE OIL</p> <p>CARPET</p>	<p>40.000cSt (#106540) HUDY Premium Silicone Oils</p>  <p>SILICONE OIL</p> <p>CARPET</p>	<p>10.000cSt (#106510) HUDY Premium Silicone Oils</p>  <p>SILICONE OIL</p> <p>DIRT</p>	<p>100.000cSt (#106610) HUDY Premium Silicone Oils</p>  <p>SILICONE OIL</p> <p>DIRT</p>	<p>(HUDY #106210) Premium Graphite Grease</p>  <p>GRAPHITE GREASE</p> <p>CARPET DIRT</p>
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EQUIPMENT REQUIRED

<p>Transmitter</p> 	<p>Receiver</p> 	<p>Speed Controller</p> 	<p>Steering Servo</p> 	<p>Electric Motor & Pinion Gear with Setscrew</p> 	<p>LiPo Battery</p> 	
<p>Battery Charger</p> 	<p>Double-sided Tape (HUDY #107875) OPTION</p> 	<p>Lexan™ Paint</p> 	<p>4x Tires & Inserts</p> 	<p>Bearing Oil (HUDY #106230) OPTION</p> 	<p>Threadlock</p> 	<p>CA glue</p> 

NOT INCLUDED



SAMPLE OF OPTIONAL PARTS		
#36XXXX	TYPE1	OPTION 1
#36XXXX	TYPE2	OPTION 2
#36XXXX	TYPE	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:

- 361200** **STYLE A** - indicates parts that are included in the bag marked for the section.
- 361100** **STYLE B** - indicates parts that are included in the box.
- 364900** **STYLE C** - indicates parts that are already assembled from previous steps.
- 365100** **STYLE D** - indicates parts that are **OPTIONAL**.

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**)

CARBON PARTS PREPARATION

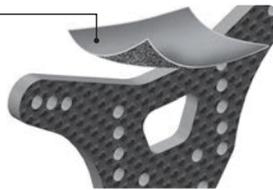
Follow this Tech Tip to prepare the carbon parts. Sand the edges with sandpaper, and then seal the edges with CA glue to reinforce them and help prevent delamination.

Prepare all Carbon Parts:

- Front shock tower
- Rear shock tower

Fine sandpaper

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



Apply CA glue to all edges of the carbon parts.



MANUAL PAGE MARKING

MANUAL STEPS ONLY FOR DIRT

DIRT

DIRT

BAG

MANUAL STEPS ONLY FOR CARPET

CARPET

CARPET

BAG

MANUAL DUAL STEPS FOR CARPET AND DIRT

CARPET **DIRT**

CARPET
DIRT



TIP

All ball-bearings are factory pre-oiled or pre-greased. The bearings of each type are packaged separately; there is a BAG 00.9 with pre-greased ball-bearings and a separate bag with pre-oiled ball-bearings.

For pre-oiled ball-bearings, use:
#106230 HUDY Bearing Oil.

For pre-greased ball-bearings with rubber covers, use one of these bearing greases:
#106220 - HUDY Bearing Grease - suggested for extremely dusty track conditions.
#106221 - HUDY Bearing Grease "Blue" - suggested for medium dusty track conditions.
#106222 - HUDY Bearing Grease "Red" - suggested for low dusty track conditions.

Replace any bearings that develop a "gritty" feeling to prevent inefficiency and avoid failures.

Make sure to use only original XRAY ball-bearings, which all have specific tolerances, axial and radial play, and are all individually selected. Using 3rd party ball-bearings may result in bearing failures and damage to other parts.

HUDY PREMIUM SILICONE OILS

HUDY PREMIUM SILICONE OILS		
FOR CENTER GEAR DIFFERENTIAL		
#106610	100.000cSt - 50ml	INCLUDED
#106620	200.000cSt - 50ml	OPTION
#106630	300.000cSt - 50ml	OPTION
#106650	500.000cSt - 50ml	OPTION
#106692	1 000.000cSt - 50ml	OPTION
#106694	2 000.000cSt - 50ml	OPTION

HUDY PREMIUM SILICONE OILS		
FOR SHOCK ABSORBERS		
#106321	200cSt - 100ml	OPTION
#106326	250cSt - 100ml	OPTION
#106331	300cSt - 100ml	INCLUDED
#106336	350cSt - 100ml	INCLUDED
#106338	375cSt - 100ml	OPTION
#106341	400cSt - 100ml	OPTION
#106343	425cSt - 100ml	OPTION
#106346	450cSt - 100ml	OPTION
#106348	475cSt - 100ml	OPTION
#106351	500cSt - 100ml	OPTION
#106353	525cSt - 100ml	OPTION
#106356	550cSt - 100ml	OPTION
#106358	575cSt - 100ml	OPTION
#106361	600cSt - 100ml	OPTION

HUDY PREMIUM SILICONE OILS		
FOR GEAR DIFFERENTIAL		
#106450	5.000cSt - 50ml	OPTION
#106460	6.000cSt - 50ml	OPTION
#106470	7.000cSt - 50ml	OPTION
#106480	8.000cSt - 50ml	OPTION
#106490	9.000cSt - 50ml	OPTION
#106510	10.000cSt - 50ml	INCLUDED
#106492	11.000cSt - 50ml	OPTION
#106512	12.000cSt - 50ml	OPTION
#106513	13.000cSt - 50ml	OPTION
#106515	15.000cSt - 50ml	OPTION
#106517	17.000cSt - 50ml	OPTION
#106520	20.000cSt - 50ml	OPTION
#106530	30.000cSt - 50ml	INCLUDED
#106540	40.000cSt - 50ml	INCLUDED
#106550	50.000cSt - 50ml	OPTION
#106560	60.000cSt - 50ml	OPTION
#106580	80.000cSt - 50ml	OPTION

HUDY TITANIUM 5.4mm BALL STUDS

Ø 5.4mm

HUDY TITANIUM 4.9mm BALL STUDS

Ø 4.9mm

TITANIUM MATERIAL SUPER LIGHTWEIGHT ULTRA-PRECISE
LONG LIFE HIGH DURABILITY MADE BY HUDY
MADE IN EUROPE

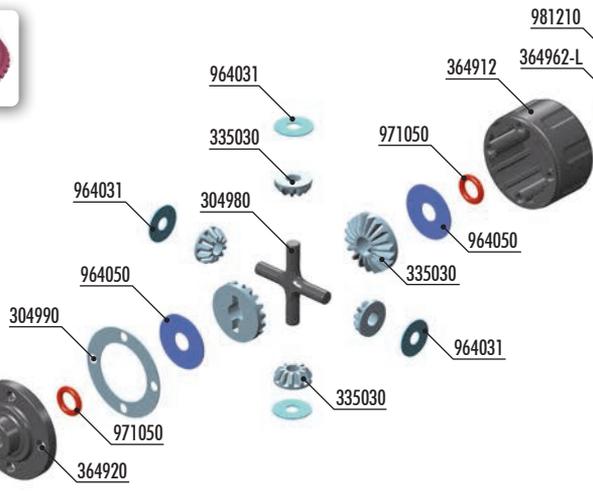
1. FRONT & REAR DIFFERENTIAL

CARPET DIRT

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

#335080
 STEEL DIFFERENTIAL PIN
 HARDCOATED (2)

#335081
 ALU DIFFERENTIAL PIN
 HARDCOATED (2)



#365100
 XRAY XB4 Active Diff Front/Rear -Set
 Including
 #325125-Active Diff Segment 90°

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

#335031
 DIFF BEVEL & SATELLITE
 GEARS FOR O-RINGS - SET

GEAR DIFF CASE & COVER

Part #	Component	Material	Availability
#364912	CASE	COMPOSITE	INCLUDED
#364920	COVER	COMPOSITE	INCLUDED
#364912-G	CASE	GRAPHITE	OPTION
#364920-G	COVER	GRAPHITE	OPTION

BAG
01
2x
 Gear Differentials

- 304980 COMPOSITE GEAR DIFF CROSS PIN
- 304990 DIFF GASKET (4)
- 335030 STEEL DIFF BEVEL & SATELLITE GEARS (2+4)
- 364903-L GEAR DIFFERENTIAL - LIGHTWEIGHT - 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-L GEAR DIFF OUTDRIVE ADAPTER - LIGHTWEIGHT (2)

- 903258 HEX SCREW SFH M2.5x8 (10)
- 941014 BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (8)
- 964031 WASHER S 3.5x10x0.2 (10)
- 964050 WASHER S 5x15x0.3 (10)
- 971050 SILICONE O-RING 5x1.5 (10)
- 981210 PIN 2x10 (10)

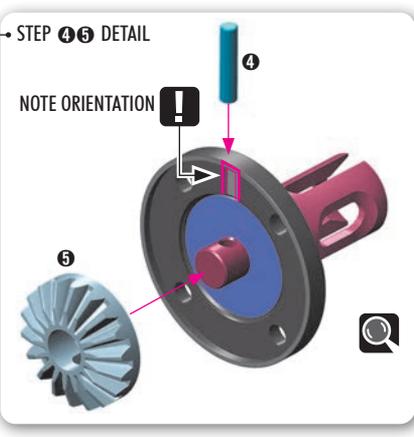
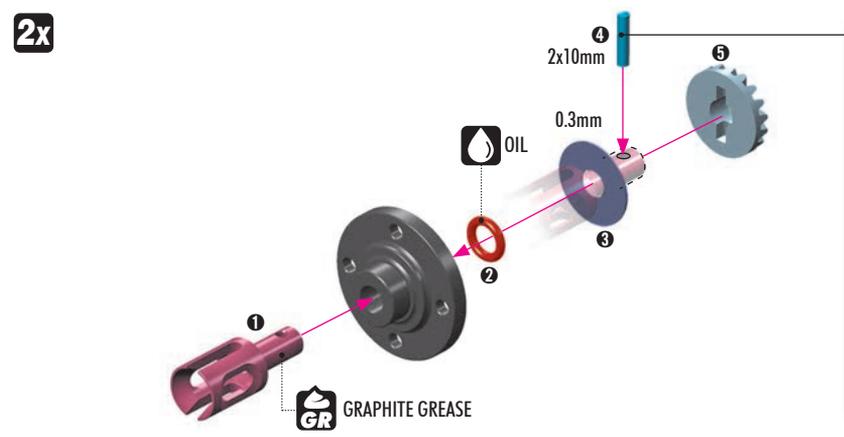
Numbers in parentheses () refer to quantities when purchased separately.

2x

964050
S 5x15x0.3
1x

971050
O 5x1.5
1x

981210
P 2x10
1x



2x

964050
S 5x15x0.3
1x

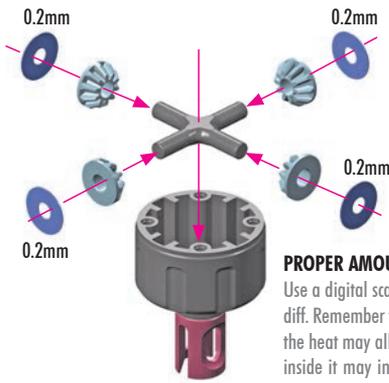
971050
O 5x1.5
1x

981210
P 2x10
1x



1. FRONT & REAR DIFFERENTIAL

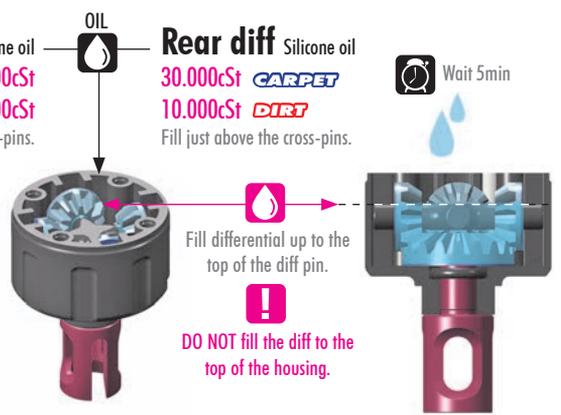
CARPET **DIRT**



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 40.000cSt
DIRT 10.000cSt
Fill just above the cross-pins.

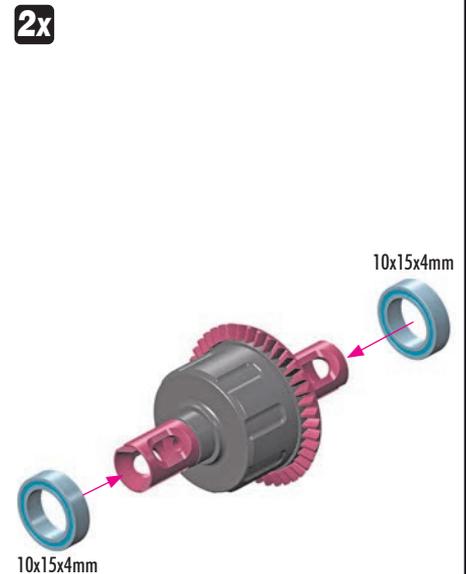
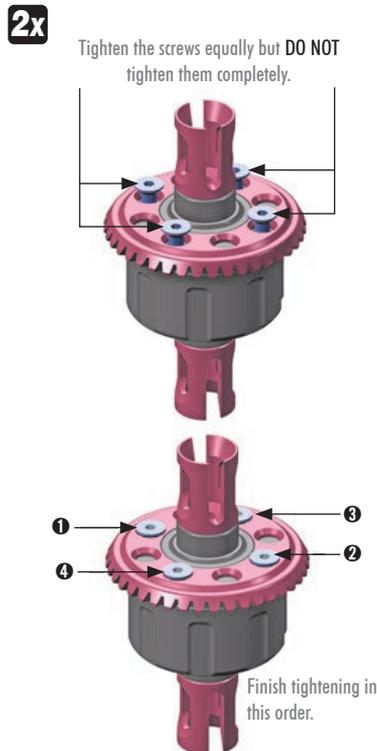
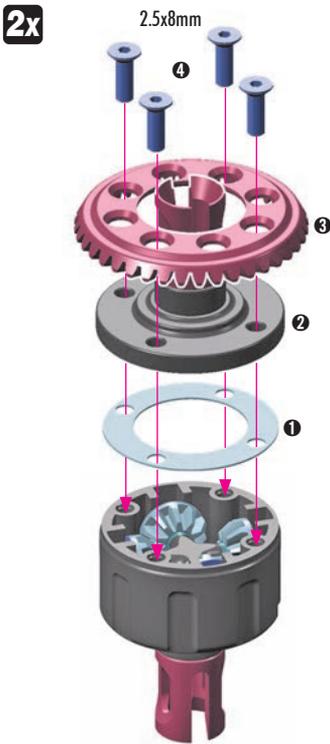
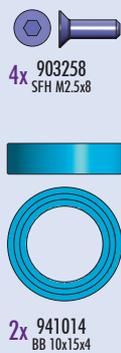
Rear diff Silicone oil
CARPET 30.000cSt
DIRT 10.000cSt
Fill just above the cross-pins.



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



TIP	FRONT DIFFERENTIAL	TIPS FOR DIFFERENTIALS	REAR DIFFERENTIAL	TIP
DIRT	<p>LOW TRACTION 7.000cSt (HUDY #106470)</p> <p>MEDIUM TRACTION 10.000cSt (HUDY #106510)</p> <p>HIGH TRACTION 15.000cSt (HUDY #106515)</p>	<p>! Softer oil increases steering, harder oil increases stability.</p> <p>! Softer oil increases rear traction, harder oil increases on-power steering.</p>	<p>LOW TRACTION 7.000cSt (HUDY #106470)</p> <p>MEDIUM TRACTION 10.000cSt (HUDY #106510)</p> <p>HIGH TRACTION 15.000cSt (HUDY #106515)</p>	
CARPET	<p>LOW TRACTION 30.000cSt (HUDY #106530)</p> <p>MEDIUM TRACTION 40.000cSt (HUDY #106540)</p> <p>HIGH TRACTION 50.000cSt (HUDY #106550)</p>		<p>LOW TRACTION 20.000cSt (HUDY #106520)</p> <p>MEDIUM TRACTION 30.000cSt (HUDY #106530)</p> <p>HIGH TRACTION 40.000cSt (HUDY #106540)</p>	

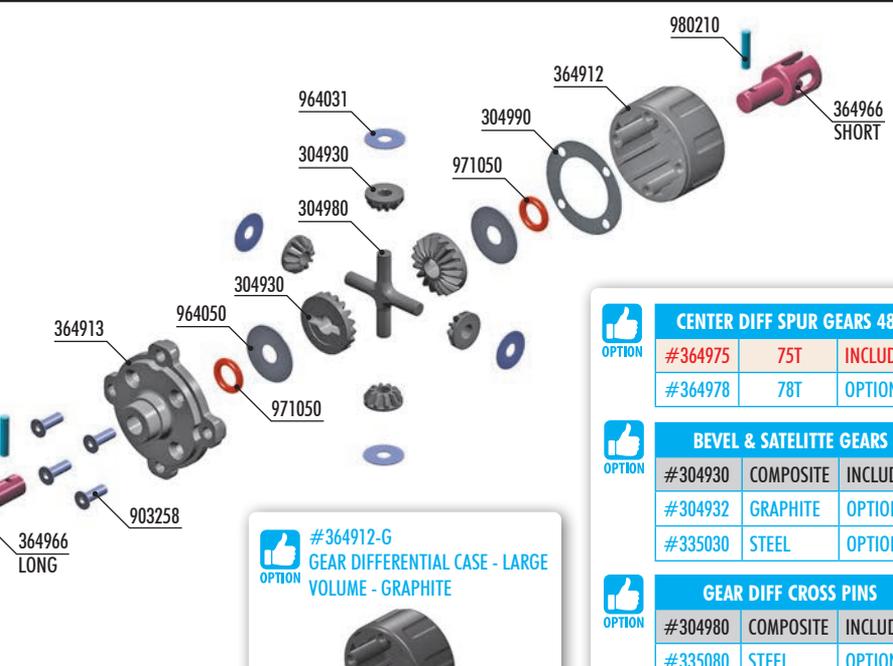


2. CENTER GEAR DIFFERENTIAL

#365101 XRAY XB4 Active Diff Center -Set
including #325125-Active Diff Segment 90°



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



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



#364975 75T INCLUDED

#364978 78T OPTION

BEVEL & SATELLITE GEARS

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

GEAR DIFF CROSS PINS

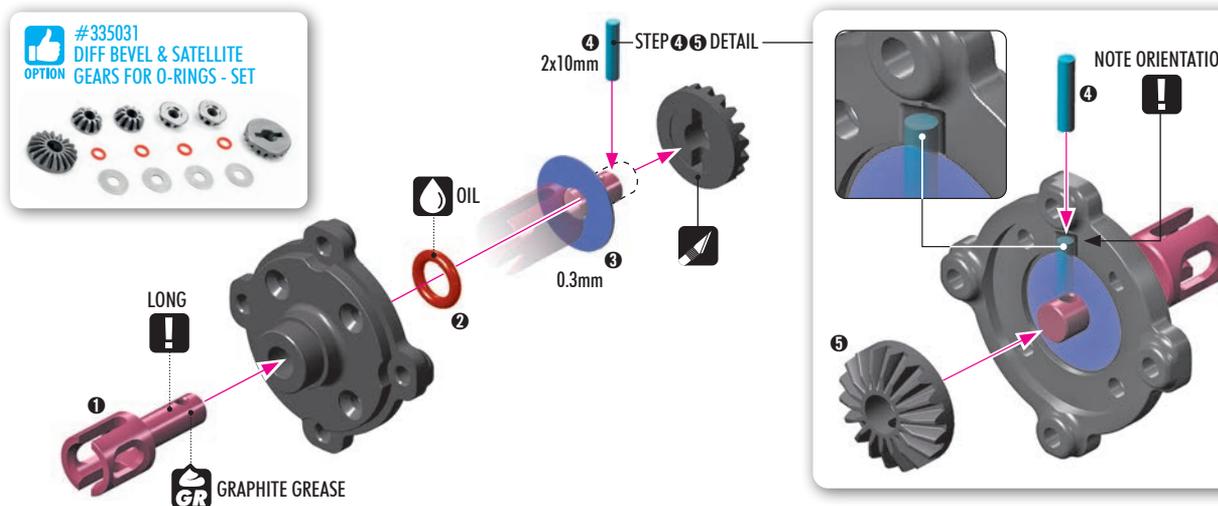
#304980	COMPOSITE	INCLUDED
#335080	STEEL	OPTION
#335081	ALU	OPTION

- | | |
|---|--|
| <p>BAG 02</p> <ul style="list-style-type: none"> 304930 COMPOSITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4) 304980 COMPOSITE GEAR DIFF CROSS PIN 304990 DIFF GASKET (4) 364904-L GEAR CENTER DIFFERENTIAL - LIGHTWEIGHT - SET 364912 COMPOSITE GEAR DIFFERENTIAL CASE - LARGE VOLUME 364913 COMPOSITE CENTER GEAR DIFF ADAPTER - LARGE VOLUME 364966 CENTER GEAR DIFF OUTDRIVE ADAPTER - LIGHTWEIGHT (1+1) 364975 COMPOSITE CENTER DIFF SPUR GEAR 75T / 48 | <ul style="list-style-type: none"> 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) |
|---|--|

Numbers in parentheses () refer to quantities when purchased separately.

#335031
DIFF BEVEL & SATELLITE GEARS FOR O-RINGS - SET





STEP 4, 5 DETAIL

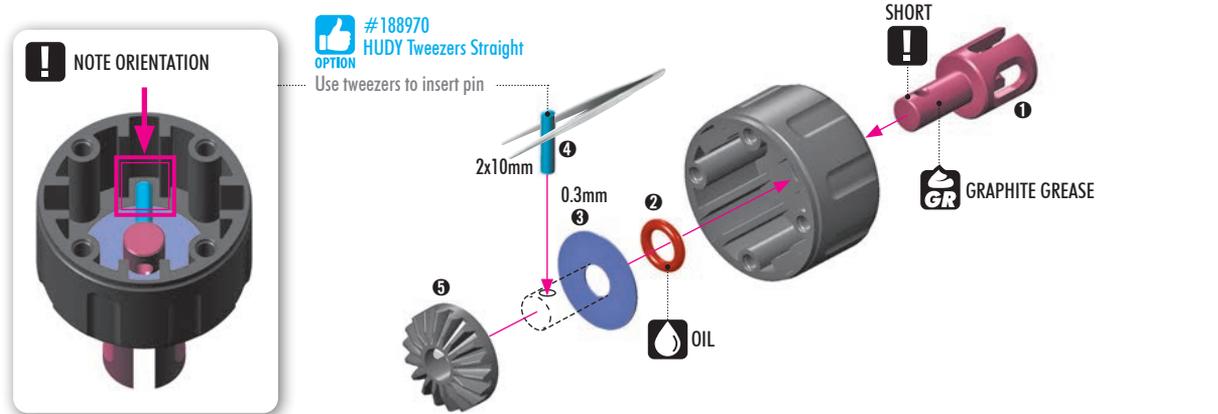
NOTE ORIENTATION

- 1x 964050 S 5x15x0.3
- 1x 971050 O 0.5x1.5
- 1x 980210 P 2x10

GRAPHITE GREASE

#188970
HUDY Tweezers Straight





NOTE ORIENTATION

Use tweezers to insert pin

- 1x 964050 S 5x15x0.3
- 1x 971050 O 0.5x1.5
- 1x 980210 P 2x10

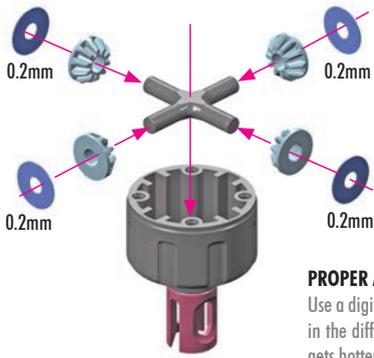
GRAPHITE GREASE

2. CENTER GEAR DIFFERENTIAL

DIRT



4x 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 diff pin.

⌚ Wait 5min



Fill differential up to the top of the diff pin.

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



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



1 Put the diff (without oil) on the scale and check the weight (approximately 11.72g)



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

CENTER Diff. 11.72g + 1.50g = 13.22g

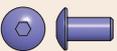
#107865
HUDY Professional Digital Pocket Scale 300g/0.01g
OPTION

#107866
HUDY Professional Digital Pocket Scale 3000g/0.1g
OPTION

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.



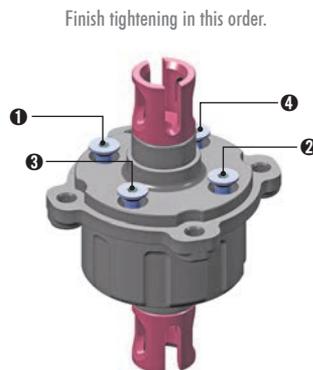
4x 902306
SH M3x6



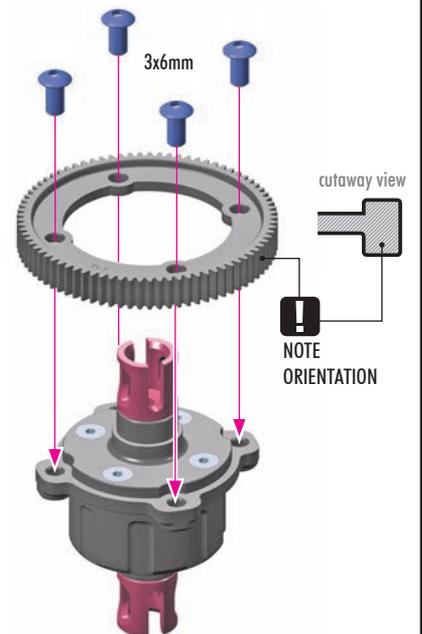
4x 903258
SFH M2.5x8



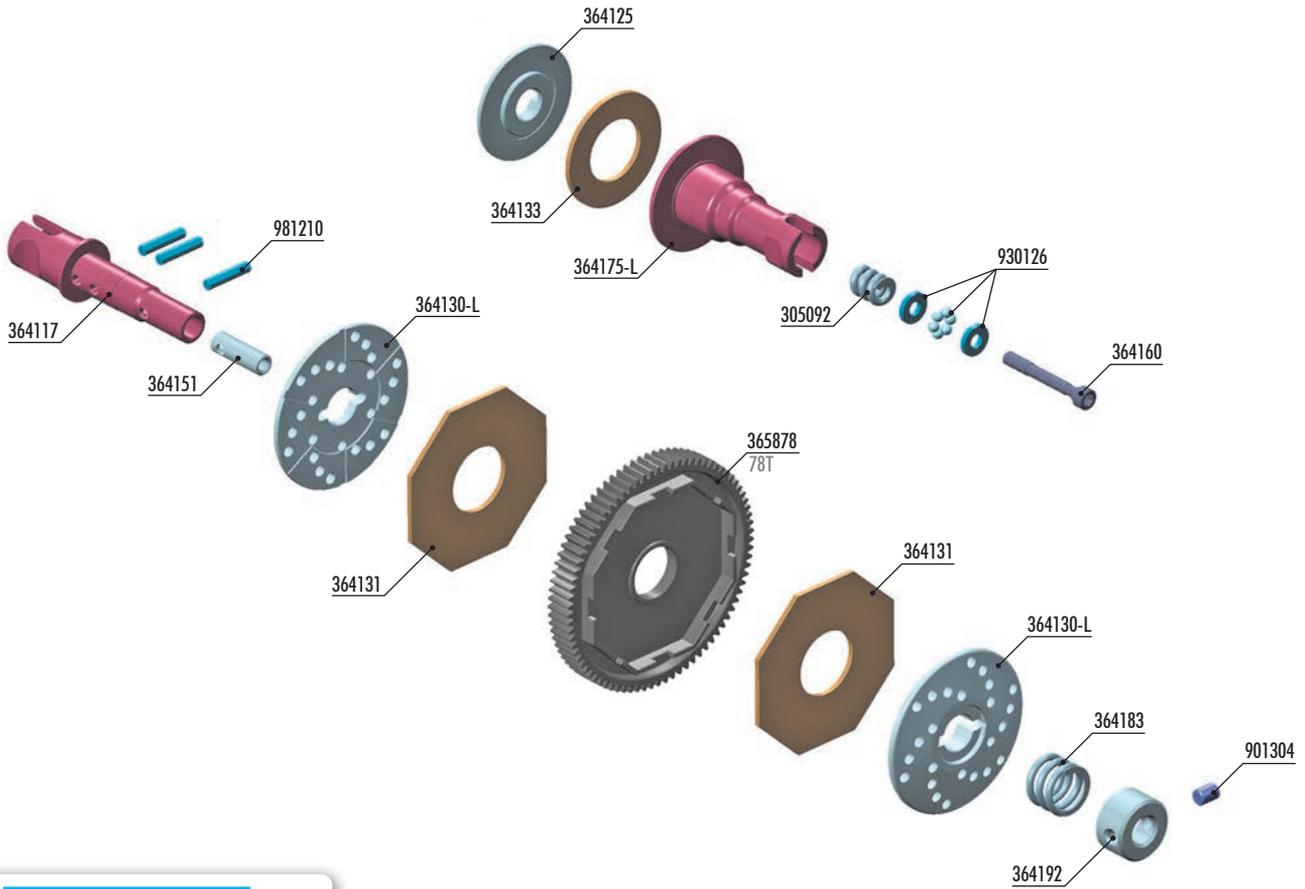
Tighten the screws equally but DO NOT tighten them completely.



Finish tightening in this order.



!
NOTE ORIENTATION



SLIPPER CLUTCH SPUR GEARS			
OPTION	#365872	72T / 48	OPTION
	#365875	75T / 48	OPTION
	#365878	78T / 48	INCLUDED

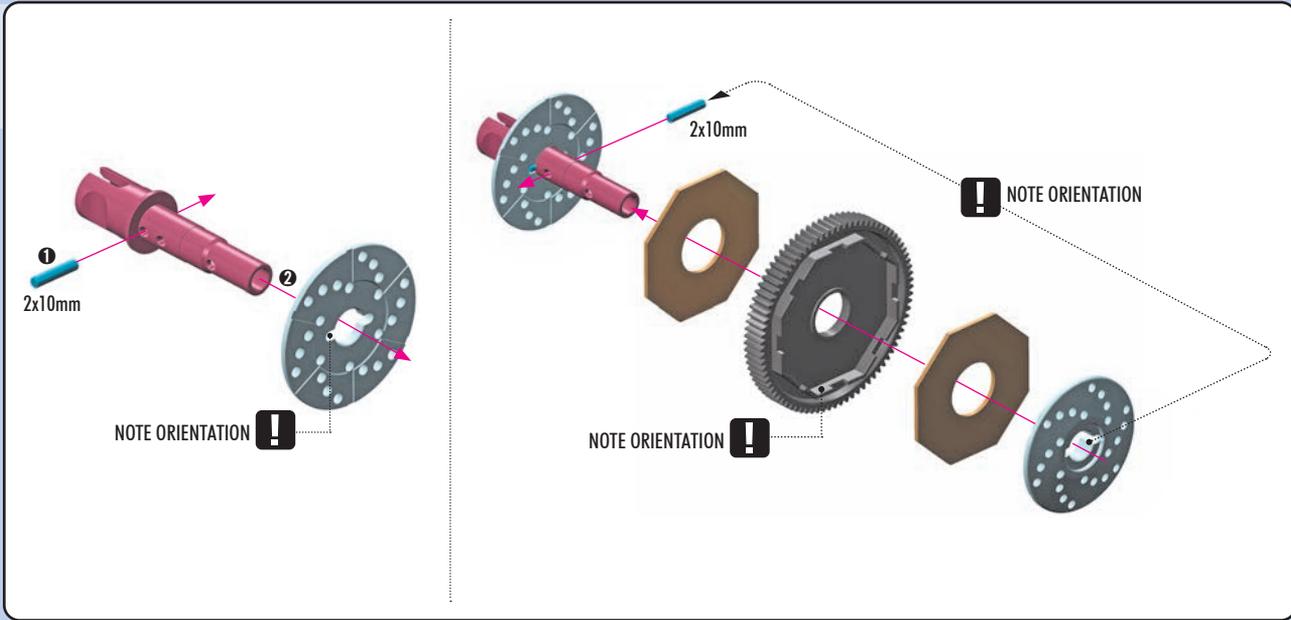
BAG

02

- 305092 BALL DIFFERENTIAL SPRING
- 364101-S ONE-WAY SLIPPER CLUTCH SET - LIGHTWEIGHT & SHORT
- 364117 ONE-WAY SLIPPER CLUTCH SHAFT - LIGHTWEIGHT & SHORT
- 364130-L ALU ONE-WAY SLIPPER CLUTCH PLATES - VENTILATED - SET
- 364125 ALU PLATE FOR ONE-WAY SLIPPER CLUTCH FOR OUTDRIVE - 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-L OUTDRIVE ADAPTER WITH PRESSED ONE-WAY BEARING - LIGHTWEIGHT
- 364183 SLIPPER CLUTCH SPRING C=50 - BLACK
- 364192 ALU NUT FOR ONE-WAY SLIPPER CLUTCH
- 365878 COMPOSITE SLIPPER CLUTCH SPUR GEAR 78T / 48
- 901304 HEX SCREW SB M3x4 (10)
- 930126 CARBIDE BALL-BEARING AXIAL 2.6x6x1
- 981210 PIN 2x10 (10)

Numbers in parentheses () refer to quantities when purchased separately.

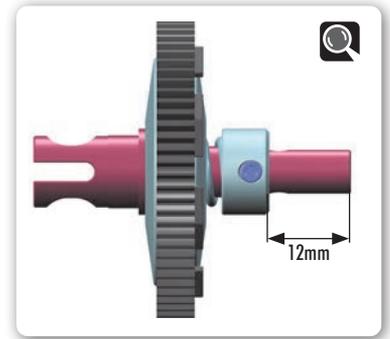
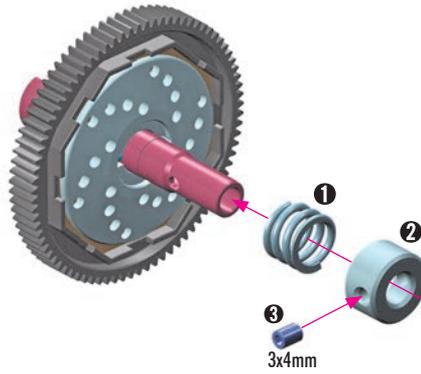
2x 981210
P 2x10



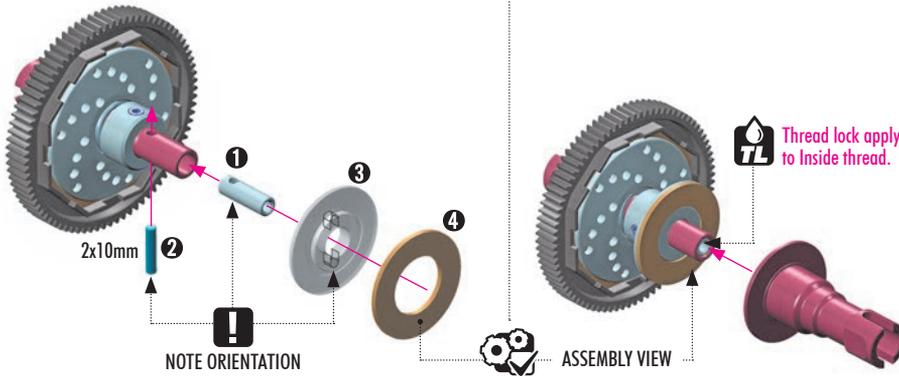
2. SLIPPER CLUTCH

CARPET

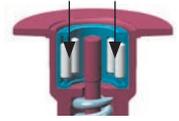
1x 901304
SB M3x4



1x 980210
P 2x10

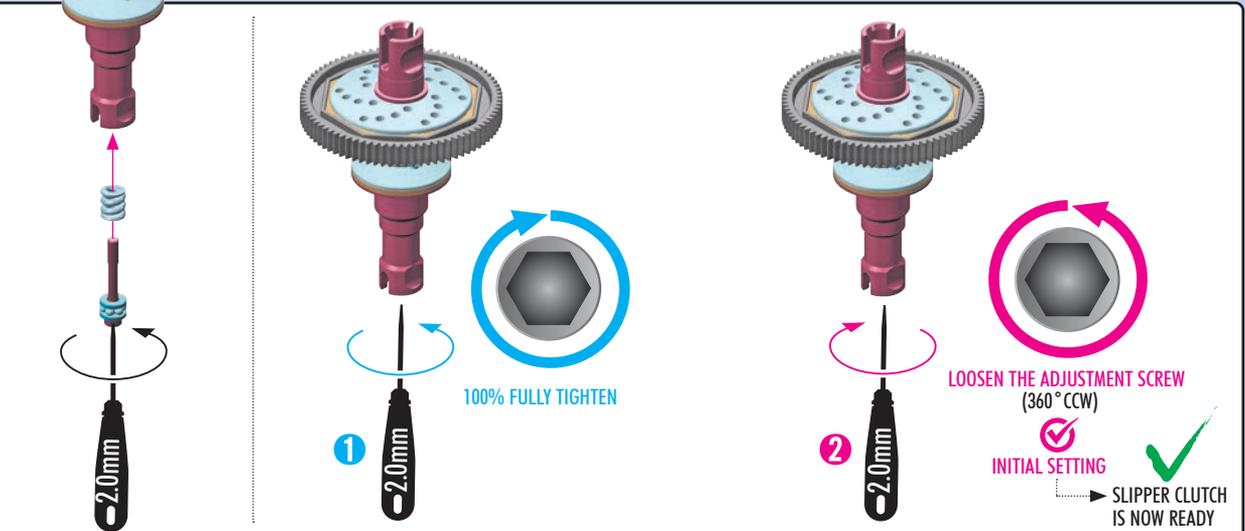
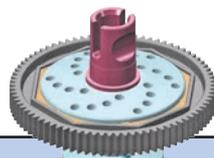
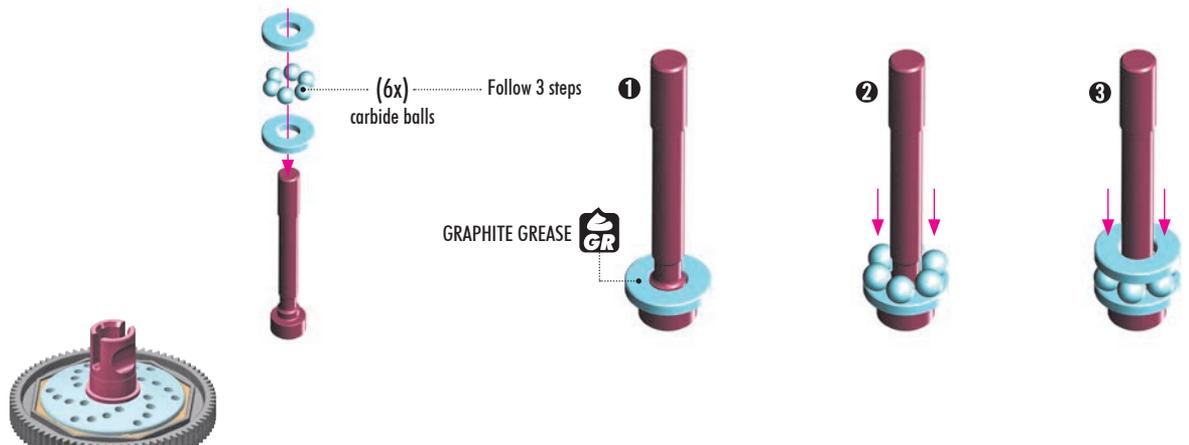


#106231
HUDDY ONE-WAY BEARING OIL



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.

1x 930126
BA 2.6x6x1

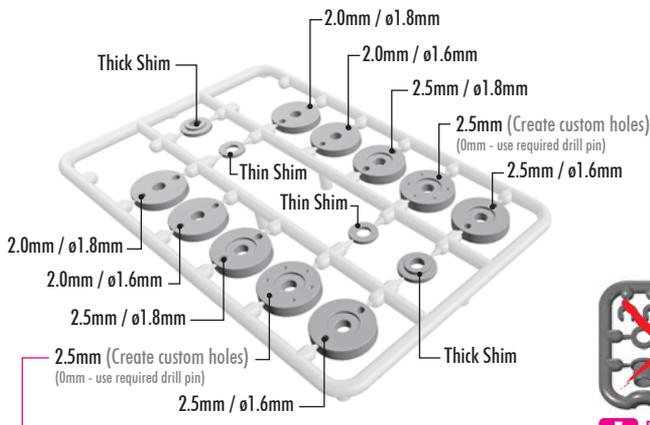
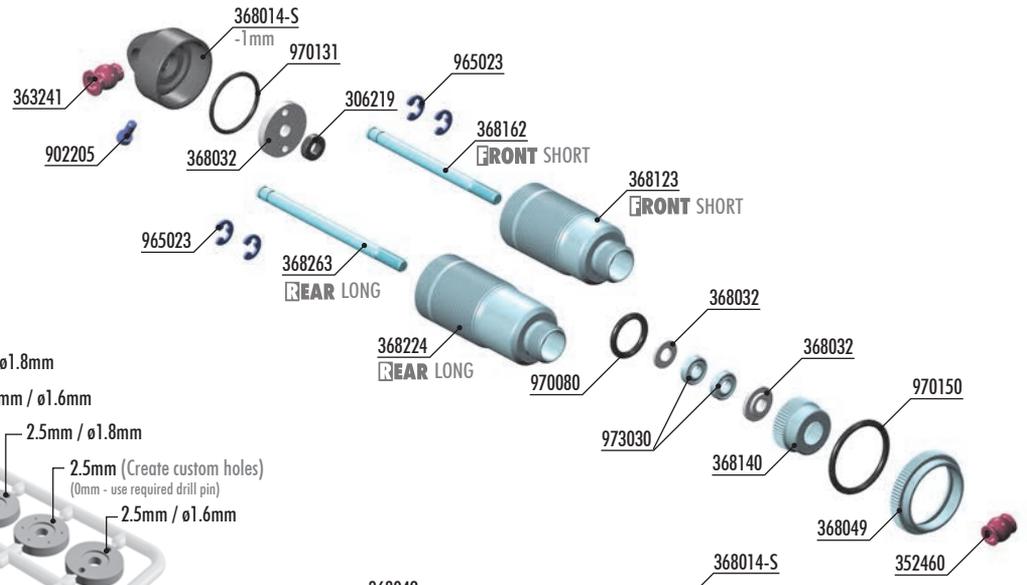


3. SHOCK ABSORBERS

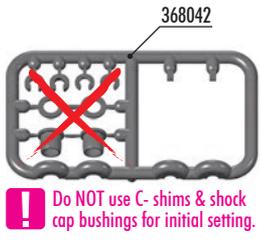
CARPET

DIRT

#368011
COMPOSITE SHOCK BALL JOINT
+2mm & +4mm (2+2)
OPTION



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



! Do NOT use C- shims & shock cap bushings for initial setting.



INITIAL SETTING
FRONT & REAR Ball joint 0mm
CARPET **DIRT**

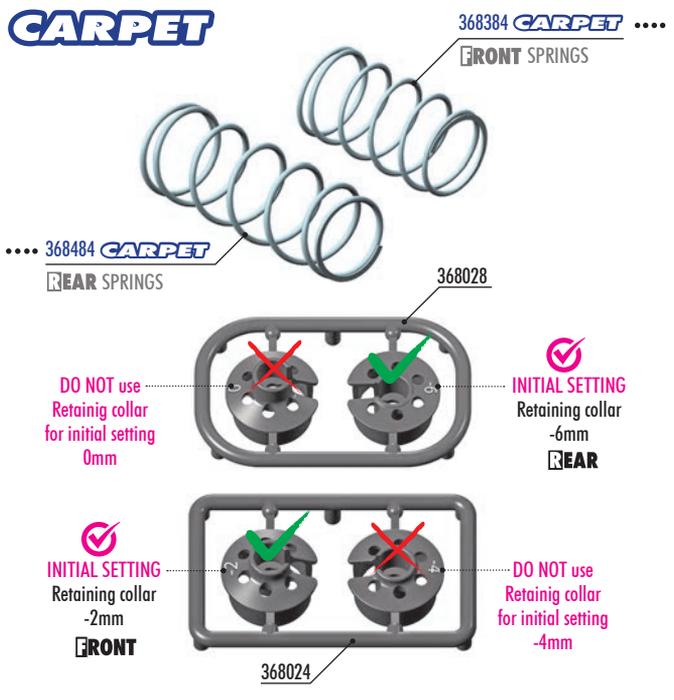
BAG
03

- 306219 COMPOSITE SET OF SERVO SHIMS (4)
- 352460 PIVOT BALL 5.8 (10)
- 363241 BALL UNIVERSAL 5.8mm WITH BACKSTOP (2)
- 368014-S SHORT SHOCK CAP, SPRING COLLAR & BALL JOINT - BIG BORE (2)
- 368032 SHOCK PISTONS - COMPLETE SET - DELRIN - BIG BORE
- 368042 COMPOSITE SHOCK BUSHING & SHIM (2+2)
- 368049 ALU SHOCK ADJUSTABLE NUT - BIG BORE (2)
- 368102-S SHOCK ABSORBERS 30mm- SHORT CAP - BIG BORE - SET (2)
- 368123 ALU FRONT SHOCK BODY 30mm - BIG BORE (2)
- 368140 ALU LOWER SHOCK BODY CAP (2)

- 368162 FRONT HARDENED SHOCK SHAFT 40mm (2)
- 368202-S SHOCK ABSORBERS 35.5mm - SHORT CAP - BIG BORE - SET (2)
- 368224 ALU REAR SHOCK BODY 35.5mm - BIG BORE (2)
- 368263 REAR HARDENED SHOCK SHAFT 45mm (2)
- 902205 HEX SCREW SH M2x5 (10)
- 965023 E-CLIP 2.3 (10)
- 970080 O-RING 8x1 (10)
- 970131 O-RING 13 x 1.0 (10)
- 970150 O-RING 15 x 1.5 (10)
- 973030 SILICONE X-RING PRE-OILED 3x2 (8)

Numbers in parentheses () refer to quantities when purchased separately.

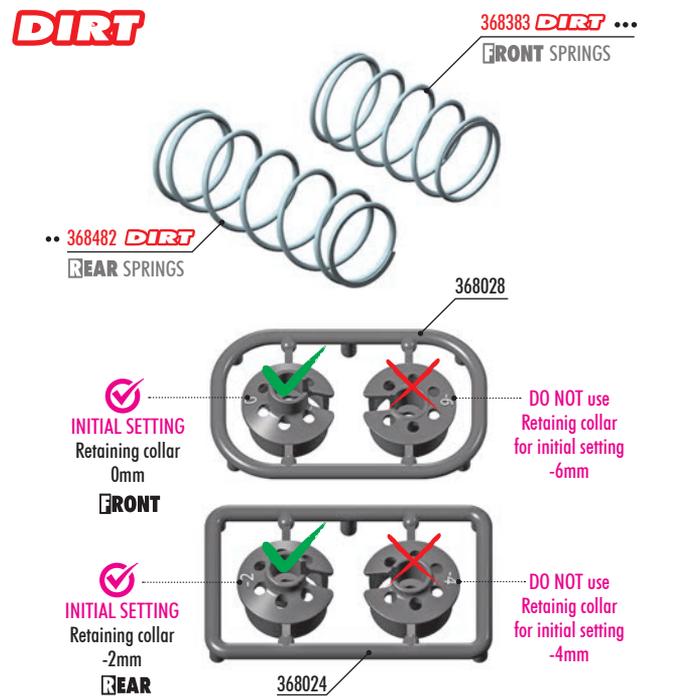
CARPET



BAG
03.1

- 368024 COMPOSITE SPRING COLLAR -2mm & -4mm - BIG BORE (2+2)
- 368028 COMPOSITE SPRING COLLAR 0mm & -6mm - BIG BORE (2+2)
- 368384 FRONT CONICAL SPRING-SET L=42.5mm - 4 DOTS (2)
- 368484 REAR CONICAL SPRING-SET L=57.5mm - 4 DOTS (2)

DIRT



BAG
03.1

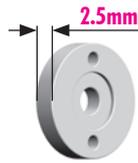
- 368024 COMPOSITE SPRING COLLAR -2mm & -4mm - BIG BORE (2+2)
- 368028 COMPOSITE SPRING COLLAR 0mm & -6mm - BIG BORE (2+2)
- 368383 FRONT CONICAL SPRING-SET L=42.5mm - 3 DOTS (2)
- 368482 REAR CONICAL SPRING-SET L=57.5mm - 2 DOTS (2)

2. SHOCK ABSORBERS

CARPET

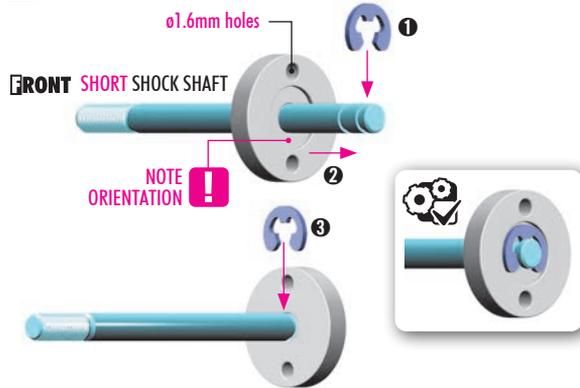
DIRT

**PISTONS
ALTERNATIVE 1**
We recommend for these types of
surfaces and traction levels:
CARPET •



**CARPET
INITIAL PISTON
SETTING**

2x FRONT



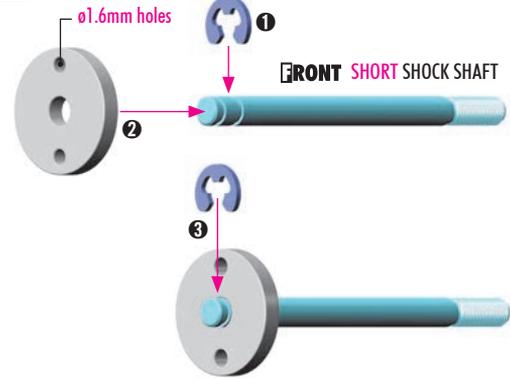
8x 965023
C2.3

**PISTONS
ALTERNATIVE 2**
We recommend for these types of surfaces
and traction levels:
**• ASTRO
• DIRT**

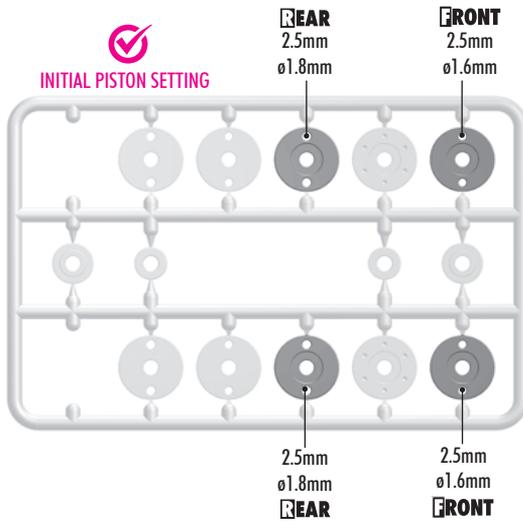


**DIRT
INITIAL PISTON
SETTING**

2x FRONT

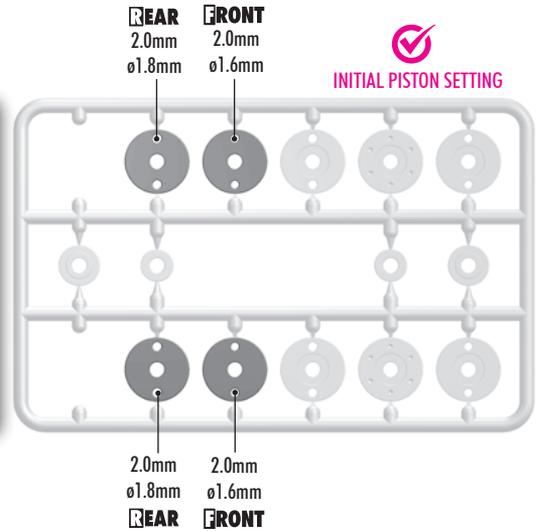


**INITIAL PISTON
SETTING**

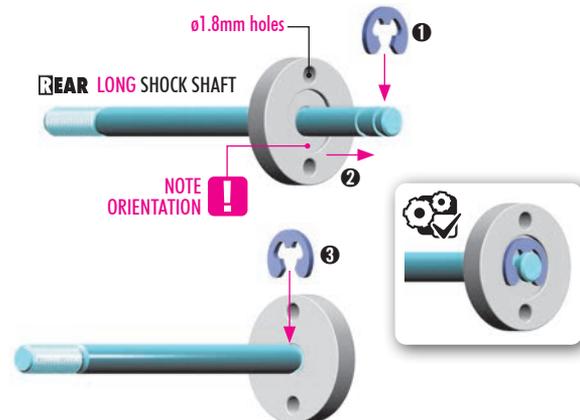


Carefully remove the
shock piston
from the frame, and
remove all
excess plastic flash.

**INITIAL PISTON
SETTING**

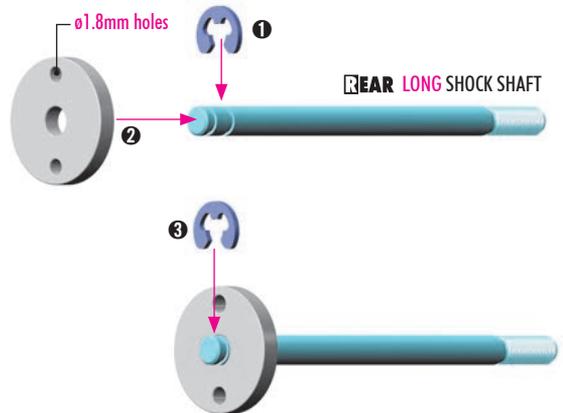


2x REAR



2x

REAR



#368033
PRECISION GROUND SHOCK PISTON BLANKS 2.5mm - BIG BORE (4)
OPTION



#368034
PRECISION GROUND SHOCK PISTON BLANKS 2.0mm - BIG BORE (4)
OPTION



Use drill bits to create your own piston holes



Big Bore piston blanks 2.0mm or 2.5mm thick for individual custom modification. All pistons are made from Delrin and are molded using ultra-high precision moulds and afterwards precisely ground for perfectly finished surface for smoother operation.

**SET-UP
BOOK**

SHOCK DAMPING
SHOCK PISTONS

2. SHOCK ABSORBERS

CARPET

DIRT



2x FRONT

2x REAR

Carefully remove the shock piston from the frame, and remove all excess plastic flash.

Silicone X-ring

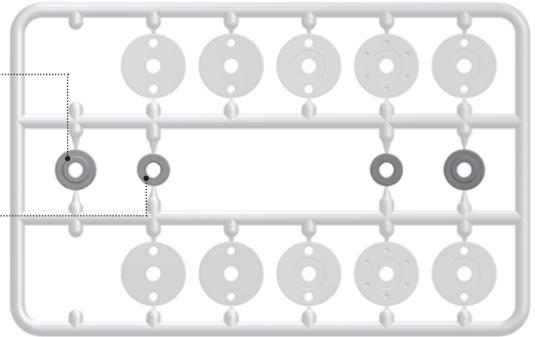
Silicone X-ring

THICK Shim

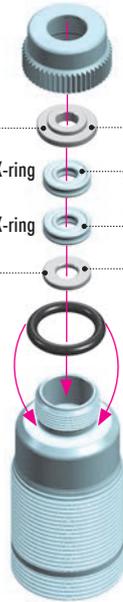
SILICONE OIL

THIN Shim

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



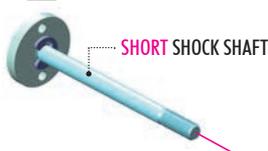
REAR
LONG SHOCK BODY



FRONT
SHORT SHOCK BODY



2x



SHORT SHOCK SHAFT

2x



LONG SHOCK SHAFT



FRONT
SHORT SHOCK BODY



REAR
LONG SHOCK BODY



INCORRECT

DO NOT PUSH the shock rod straight through the lower shock body assembly; X-ring damage may result.



CORRECT

EXTREMELY IMPORTANT

TWIST THE SHOCK ROD through the lower shock body assembly.



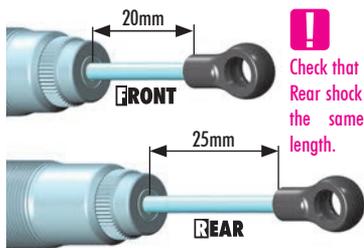
Install the pivot balls with #183011 HUDY Multi Tool

4x



0mm Ball Joint
FRONT & REAR
CARPET
DIRT

! Pivot Ball in LOWER Ball Joint



20mm

25mm

FRONT

REAR

! Check that Front and Rear shock pairs are the same overall length.



IMPORTANT !

There are two different pivot ball designs. Make sure to use the CORRECT one accordingly.

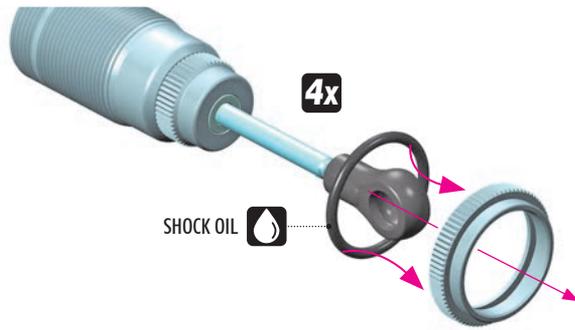
TIP Install with HUDY Multi Tool.



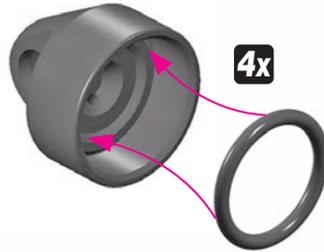
4x



4x 970150
0 15x1.5



4x 970131
0 13x1



#368054
ALU SHOCK CAP-NUT - BIG BORE - 1mm (2)
OPTION



Alu upper shock cap ensure increased durability and extended life time. Machined from premium Swiss 7075 T6 aluminum and additionally black coated. The shock caps feature vent hole.



4x 902205
SH M2x5

SHOCK OIL



- CARPET
- ASTRO

FRONT SHORT

Oil 350cSt

REAR LONG

Oil 300cSt



SHOCK OIL



- DIRT
- ASTRO WET

FRONT SHORT

Oil 350cSt

REAR LONG

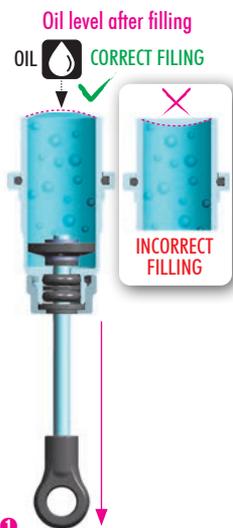
Oil 300cSt



INITIAL SHOCK REBOUND SETTING 0% REBOUND INITIAL SETTING

4x

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



1 Extend the shock shaft completely. Fill the shock body with the shock oil. For the FRONT shocks (short) use 350cSt oil. For the REAR shocks (long) use 300cSt 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 cup. Tighten the cap fully.



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



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



7 6x push the shaft up and down.



8 Untighten the screw.

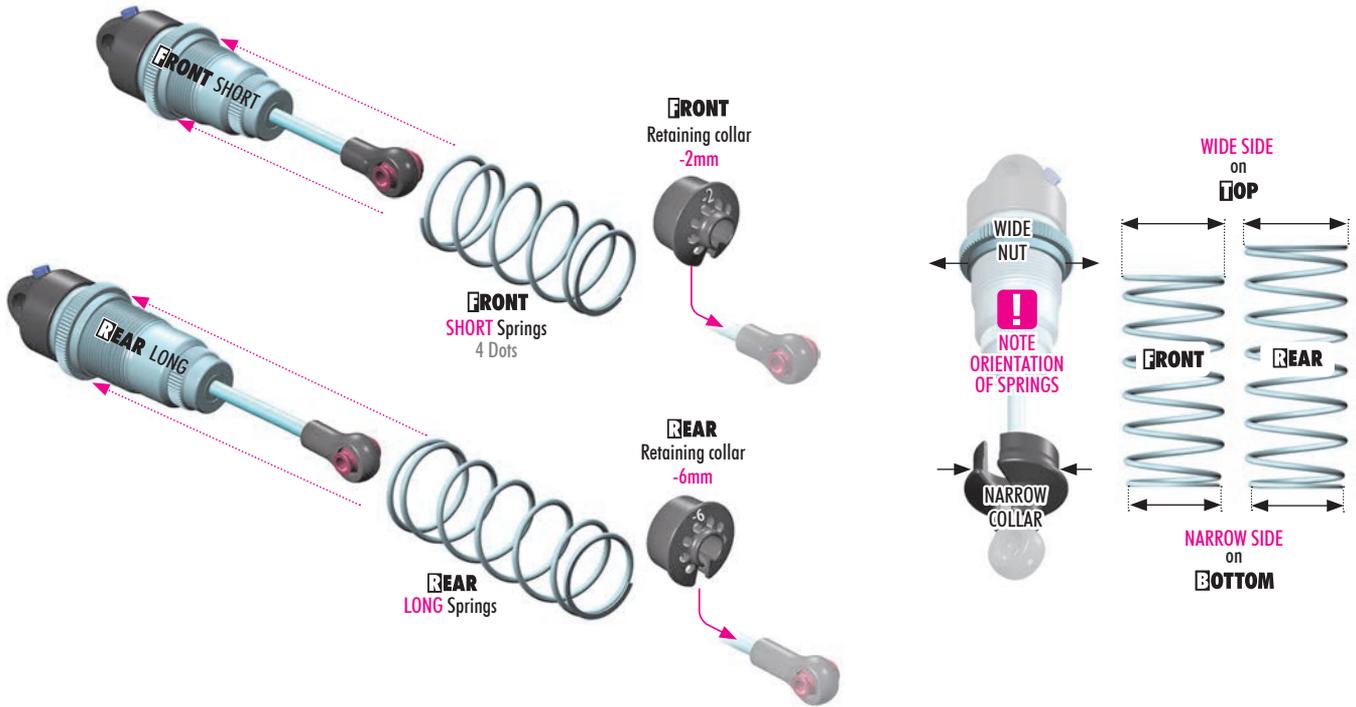


9 Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



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

CARPET  INITIAL PARTS CONFIGURATION



ALUMINUM SHOCK COLLARS

Set of lower aluminum shock collars for increased reliability. Stylish and lightweight collars are CNC-machined from premium Swiss 7075 T6 aluminum and are strategically lightened. Set of four.

 #368021
ALU SHOCK SPRING RET. COLLAR (4)
OPTION



 #368022
ALU SHOCK SPRING RET. COLLAR -2mm (4)
OPTION



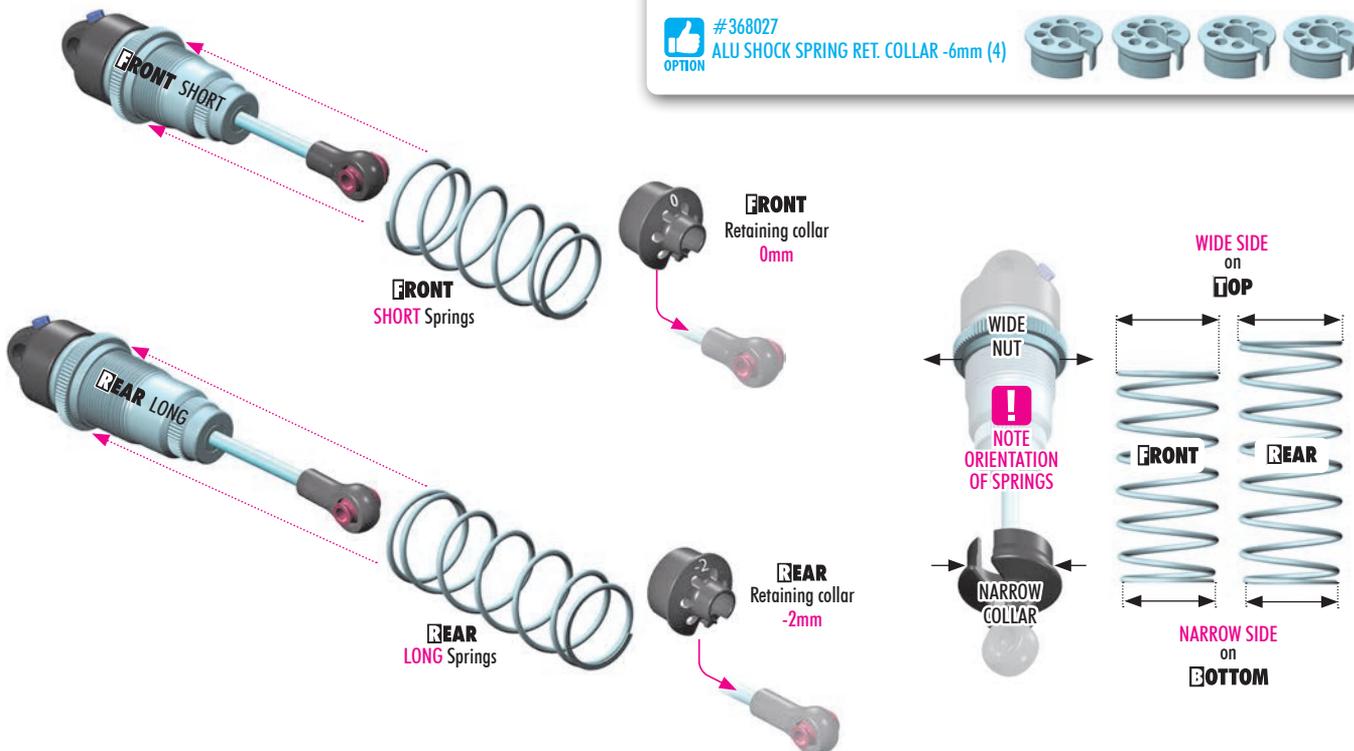
 #368023
ALU SHOCK SPRING RET. COLLAR -4mm (4)
OPTION



 #368027
ALU SHOCK SPRING RET. COLLAR -6mm (4)
OPTION



DIRT  INITIAL PARTS CONFIGURATION





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

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

INLINE HUBS - REAR			
OPTION	#362370	1 DOT	OPTION
	#362370	2 DOTS	OPTION
	#362370	3 DOTS	INCLUDED

OPTION	#365100	XRAY XB4 ACTIVE DIFFERENTIAL FRONT/REAR - SET	
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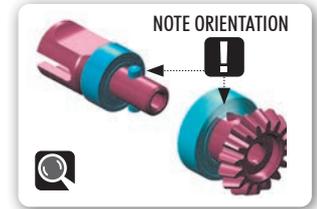
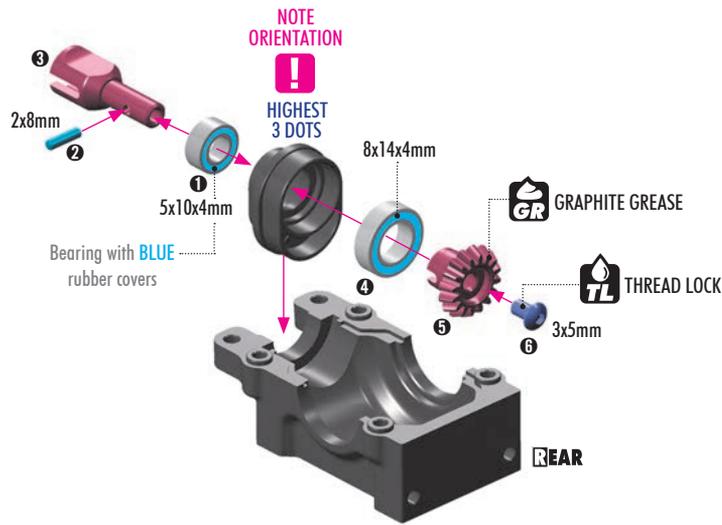
ACTIVE DIFF SEGMENTS			
OPTION	#325123	60°	OPTION
	#325125	90°	INCLUDED
	#325127	120°	OPTION



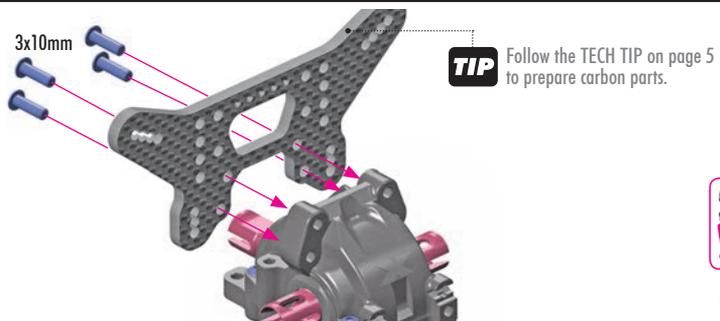
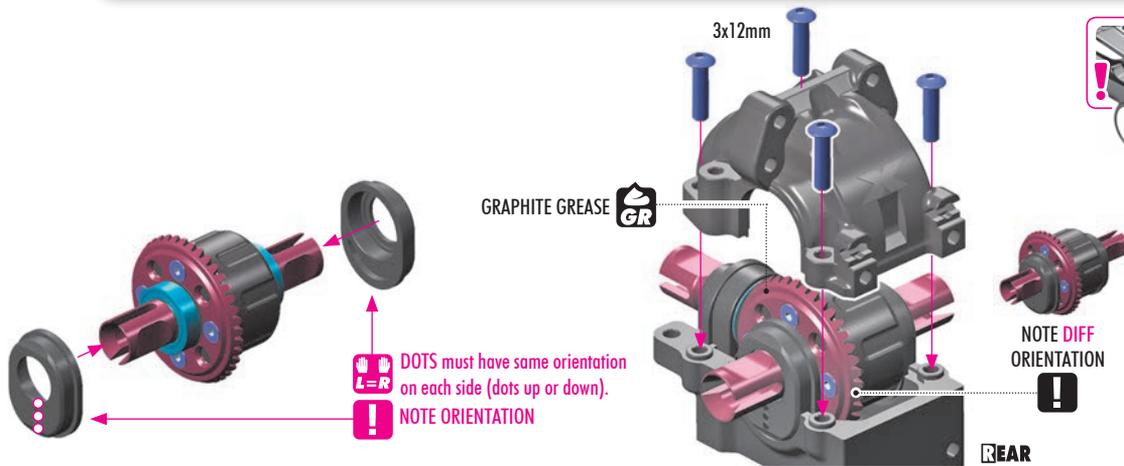
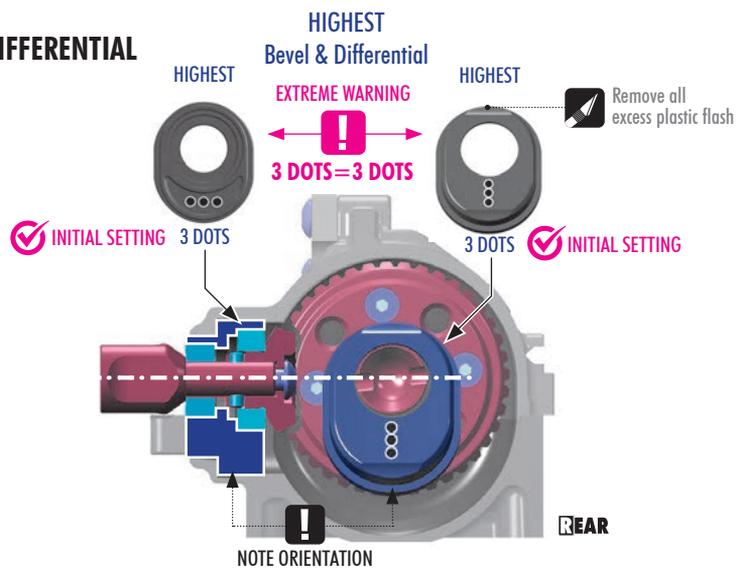
- 324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB (2)
- 362006-C DIFF BULKHEAD HORIZONTAL SPLIT DESIGN FOR COLLAR - F/R - SET
- 362370 INLINE HUB FOR BEVEL DRIVE GEAR - REAR HS BULKHEAD - 1+2+3 DOTS
- 365127 STEEL BEVEL DRIVE GEAR - FOR HS BULKHEAD - CNC-MACHINED - 16T
- 365444 CENTER DOGBONE SHAFT UNIVERSAL 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-L GEAR DIFFERENTIAL - LIGHTWEIGHT - SET
- 364940 STEEL DIFFERENTIAL BEVEL GEAR FOR LARGE VOLUME DIFF 40T
- CARPET** 363089 CARBON SHOCK TOWER FOR HS BULKHEAD - 5 DOTS - REAR
- DIRT** 363088 CARBON SHOCK TOWER FOR HS BULKHEAD - 3-DOTS - REAR

Numbers in parentheses () refer to quantities when purchased separately.



CARPET
BEVEL DRIVE GEAR & DIFFERENTIAL HEIGHT ADJUSTMENT





1x 902305
SH M3x5



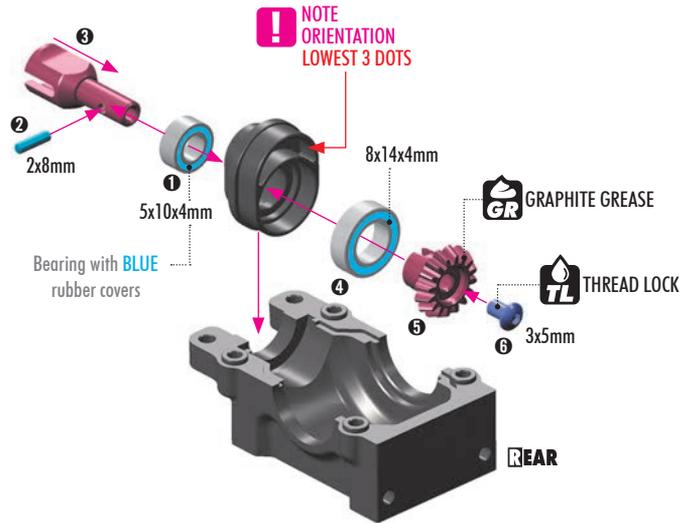
1x 940510
BB 5x10x4



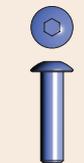
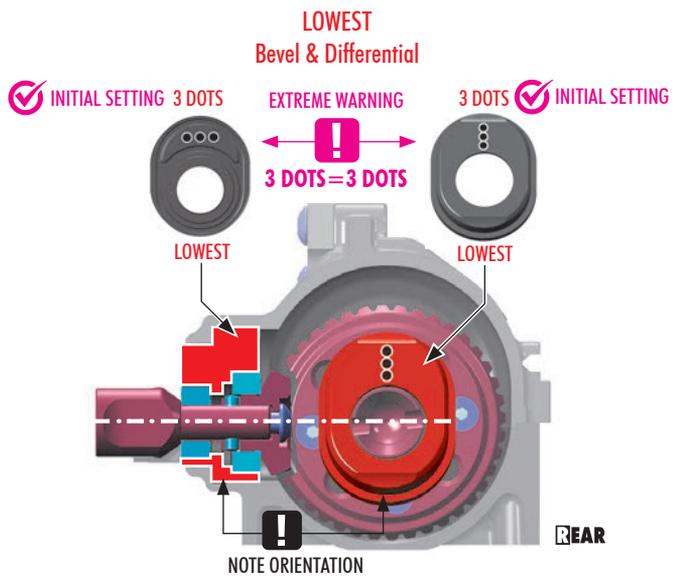
1x 940815
BB 8x14x4



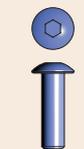
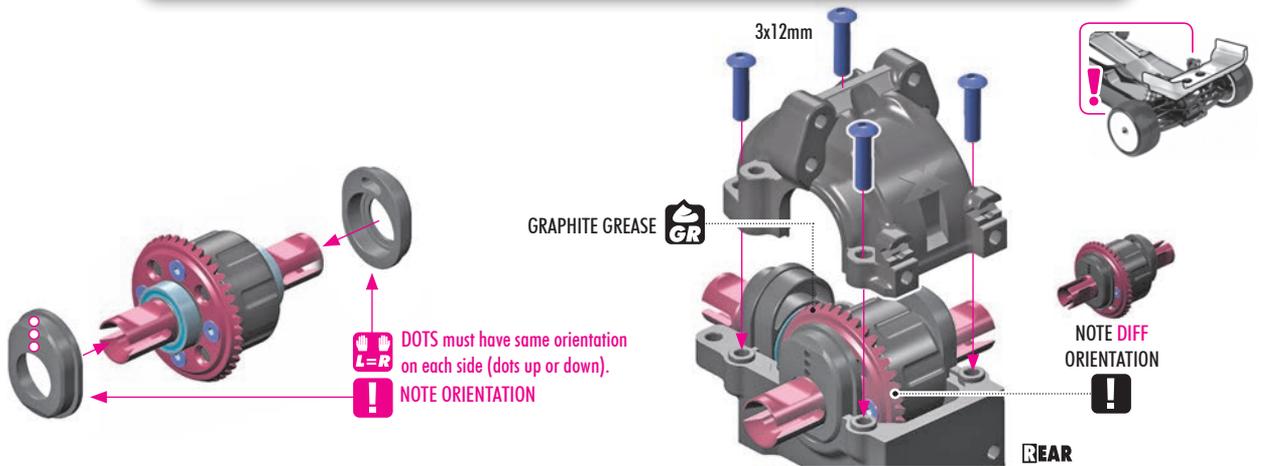
1x 981208
P 2x8



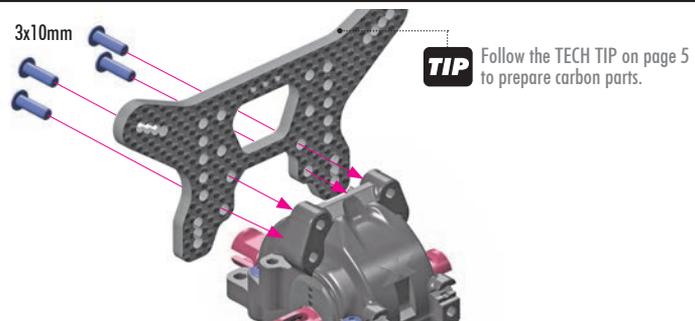
DIRT
REAR BEVEL DRIVE
GEAR & DIFFERENTIAL
HEIGHT ADJUSTMENT

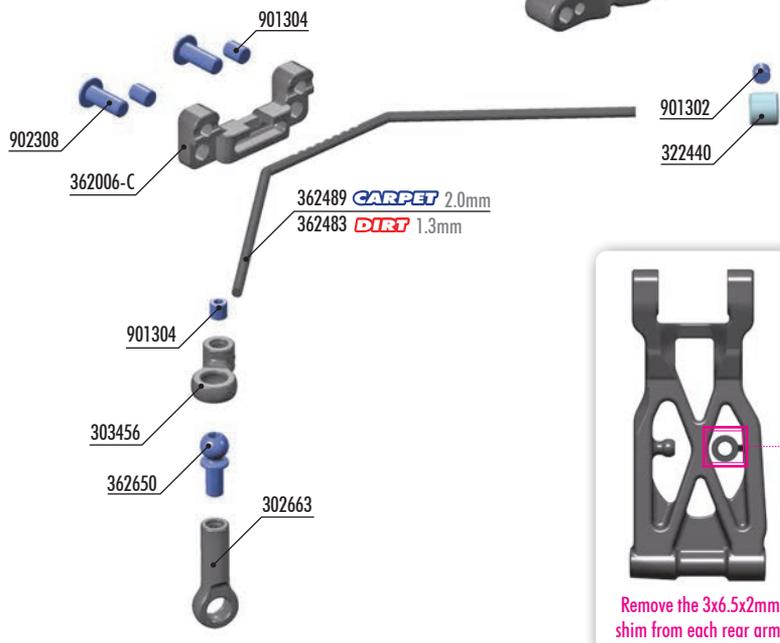
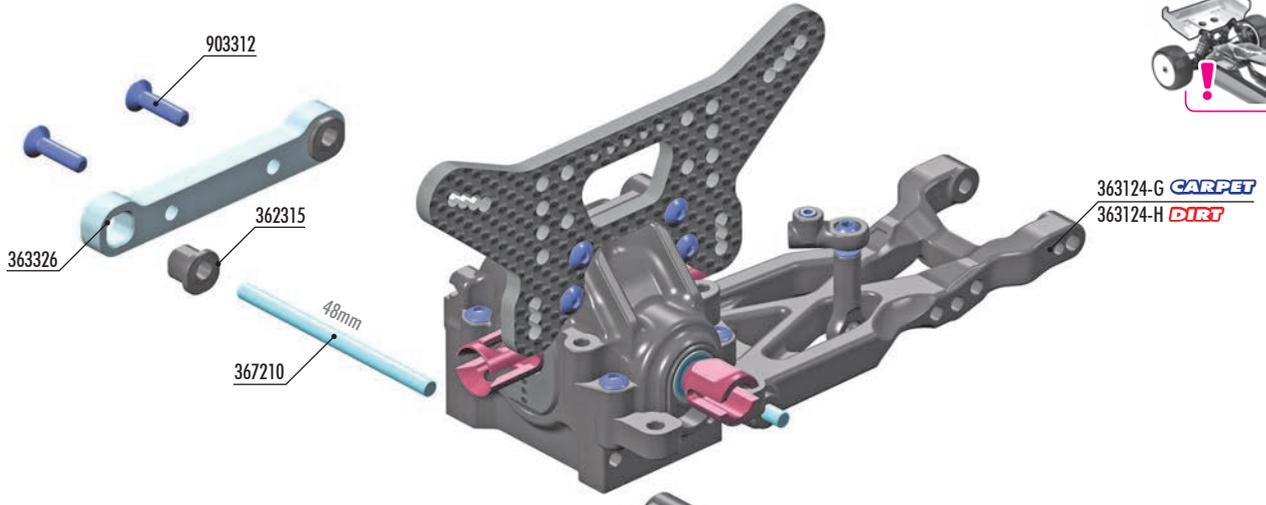


4x 902312
SH M3x12



4x 902310
SH M3x10





#363316
ALU LOWER SUSPENS. HOLDER FOR HS BULKHEAD - RF
OPTION

#363325
ALU LOWER SUSPENSION HOLDER FOR HS BULKHEAD - RR
OPTION

SHORT REAR SUSPENSION ARMS

OPTION	Part #	Side	Material	Status
	#363114-M	RIGHT	MEDIUM	OPTION
	#363124-M	LEFT	MEDIUM	OPTION
	#363114-H	RIGHT	HARD	INCLUDED
	#363124-H	LEFT	HARD	INCLUDED
	#363114-G	RIGHT	GRAPHITE	INCLUDED
	#363124-G	LEFT	GRAPHITE	INCLUDED

LONG REAR SUSPENSION ARMS

OPTION	Part #	Side	Material	Status
	#363113-M	RIGHT	MEDIUM	OPTION
	#363123-M	LEFT	MEDIUM	OPTION
	#363113-H	RIGHT	HARD	OPTION
	#363123-H	LEFT	HARD	OPTION
	#363113-G	RIGHT	GRAPHITE	OPTION
	#363123-G	LEFT	GRAPHITE	OPTION

REAR ANTI-ROLL BARS

OPTION	Part #	Thickness	Status
	#362481	1.1mm	OPTION
	#362482	1.2mm	OPTION
	#362483	1.3mm	INCLUDED
	#362484	1.4mm	OPTION
	#362486	1.6mm	OPTION
	#362488	1.8mm	OPTION
	#362489	2.0mm	INCLUDED

HUDY TITAN BALL ENDS

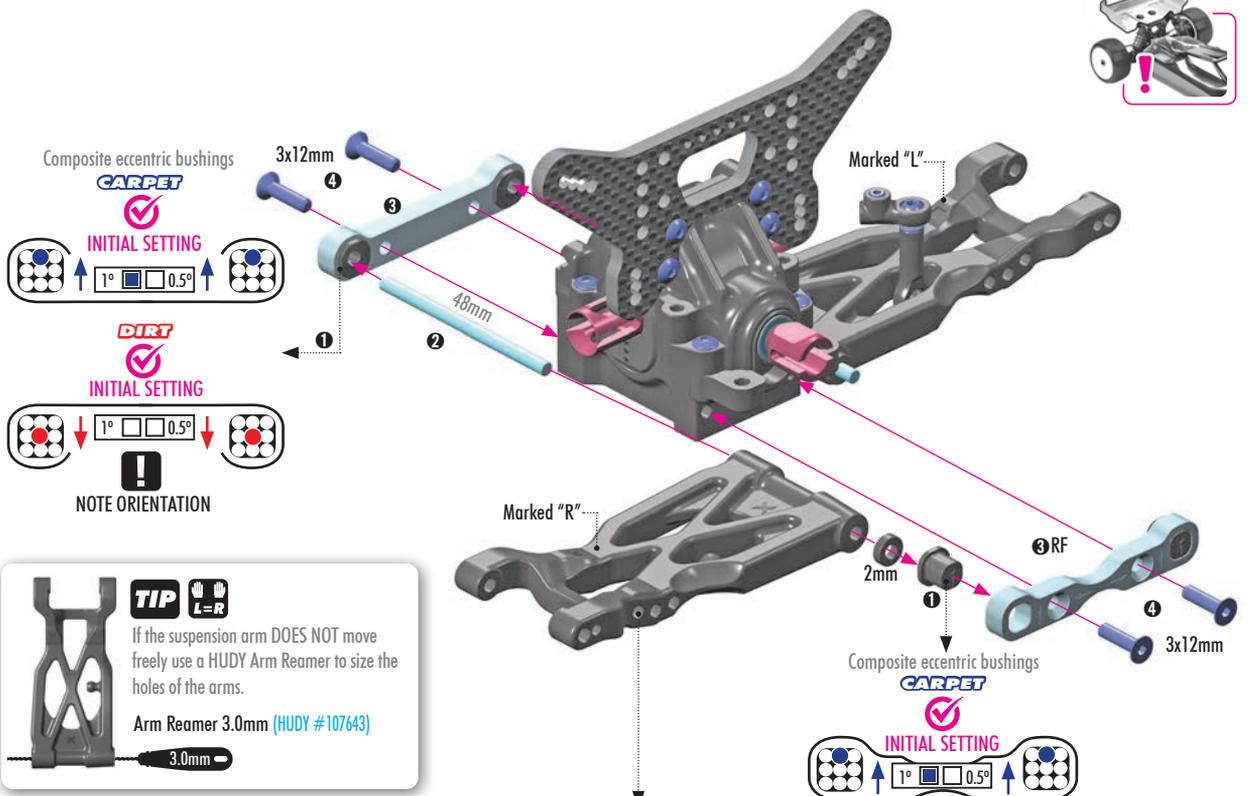
OPTION	Part #	Thread	Status
	#990006	6mm Thread	OPTION



- | | | | |
|----------|--|---------------|--|
| 302663 | COMPOSITE BALL JOINT 4.9mm - OPEN - V2 (8) | 901304 | HEX SCREW SB M3x4 (10) |
| 303456 | COMPOSITE ANTI-ROLL BAR ø2.0mm BALL JOINT 4.9mm (4) | 902308 | HEX SCREW SH M3x8 (10) |
| 322440 | ALU ANTI-ROLL BAR COLLAR | 903312 | HEX SCREW SFH M3x12 (10) |
| 362006-C | DIFF BULKHEAD HORIZONTAL SPLIT DESIGN FOR COLLAR - F/R - SET | DIRT | |
| 362315 | ECCENTRIC BUSHING SET (2) | 362483 | ANTI-ROLL BAR 1.3mm |
| 362650 | BALL END 4.9mm WITH THREAD 6mm (2) | 363114-H | COMPOSITE SUSP. ARM REAR LOWER RIGHT - 3-HOLE - HARD |
| 363317 | ALU SUSPENSION HOLDER WIDE FOR HS BULKHEAD - REAR-FRONT | 363124-H | COMPOSITE SUSP. ARM REAR LOWER LEFT - 3-HOLE - HARD |
| 363326 | ALU SUSPENSION HOLDER WIDE FOR HS BULKHEAD - REAR-REAR | CARPET | |
| 367210 | SUSPENSION PIVOT PIN (2) | 362489 | ANTI-ROLL BAR 2.0mm |
| | | 363114-G | COMPOSITE SUSP. ARM REAR LOWER RIGHT - 3-HOLE - GRAPHITE |
| 901302 | HEX SCREW SB M3x2.5 (10) | 363124-G | COMPOSITE SUSP. ARM REAR LOWER LEFT - 3-HOLE - GRAPHITE |

Numbers in parentheses () refer to quantities when purchased separately.

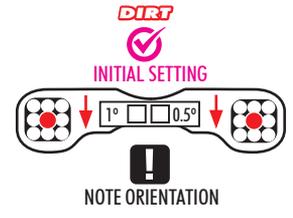
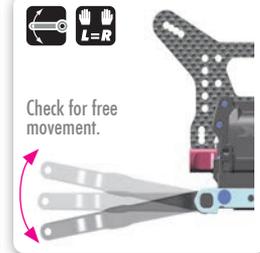
- 2x From Rear Arm SHIM 3x6.5x2
- 4x 903312 SFH M3x12



TIP If the suspension arm DOES NOT move freely use a HUDY Arm Reamer to size the holes of the arms.
Arm Reamer 3.0mm (HUDY #107643)

SHORT REAR SUSPENSION ARMS			
#363114-M	RIGHT	MEDIUM	OPTION
#363124-M	LEFT	MEDIUM	OPTION
#363114-H	RIGHT	HARD	INCLUDED
#363124-H	LEFT	HARD	INCLUDED
#363114-G	RIGHT	GRAPHITE	INCLUDED
#363124-G	LEFT	GRAPHITE	INCLUDED

LONG REAR SUSPENSION ARMS			
#363113-M	RIGHT	MEDIUM	OPTION
#363123-M	LEFT	MEDIUM	OPTION
#363113-H	RIGHT	HARD	OPTION
#363123-H	LEFT	HARD	OPTION
#363113-G	RIGHT	GRAPHITE	OPTION
#363123-G	LEFT	GRAPHITE	OPTION



#363316 ALU LOWER SUSPENS. HOLDER FOR HS BULKHEAD - RF

#363325 ALU LOWER SUSPENSION HOLDER FOR HS BULKHEAD - RR

ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE 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 roll center, and rear track-width can be obtained. For more information about the influence of rear anti-squat, rear toe-in, rear roll center and rear track width on car handling, please refer to HUDY Set-up Book (#209100).

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

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

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

TOE-IN		
RR	RF	(°)
		=3°
		=4°
		=2°
		=2°
		=3°
		=2°
		=1°
		=4°
		=5°
		=3°

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.

L=R LEFT = RIGHT

Ball ø 4.9mm
Thread 6mm

2x

TIP Install with HUDY Multi Tool.

2.0mm

HUDY TITAN BALL ENDS
OPTION #990006 | 6mm Thread | OPTION

1x 901302 SB M3x2.5

Setscrew is already threaded in collar **2**

3x2.5mm **1**

Set the collar into the **CENTER** of rear anti-roll bar.

REAR ANTI-ROLL BARS

OPTION	THICKNESS	STATUS
#362481	1.1mm	OPTION
#362482	1.2mm	OPTION
#362483	1.3mm	INCLUDED
#362484	1.4mm	OPTION
#362486	1.6mm	OPTION
#362488	1.8mm	OPTION
#362489	2.0mm	INCLUDED

4x 901304 SB M3x4

2x 902308 SH M3x8

3x4mm **4**

3

NOTE ORIENTATION

DIRT 1.3mm **REAR SHORT ANTI-ROLL BAR**

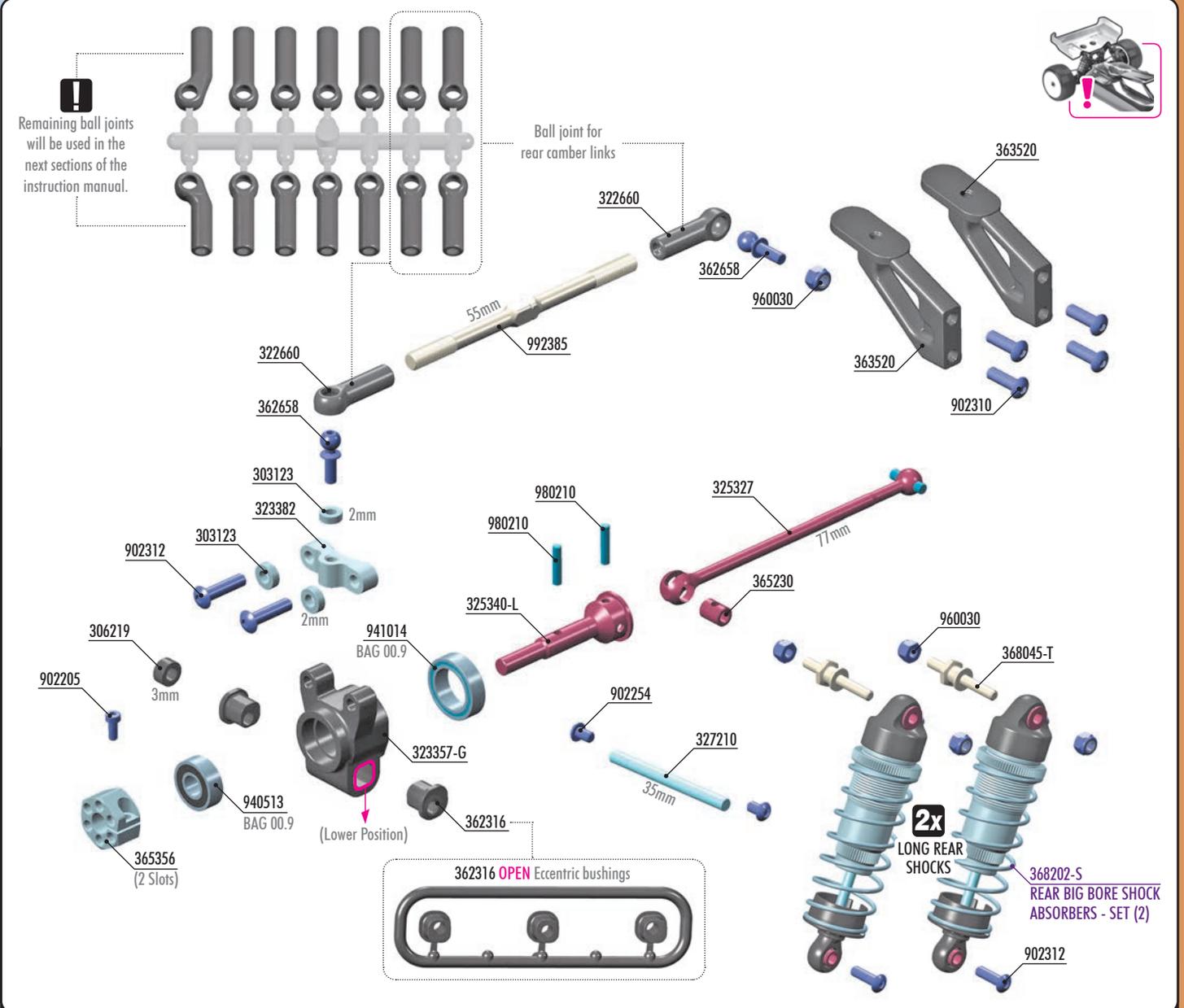
CARPET 2.0mm

3x4mm **3x8mm**

Loosen the 3x4 setscrew if the anti-roll bar **DOES NOT** turn freely.

Step 2

Step 2 check for free movement.



BAG
06

- | | | | |
|----------|---|----------|---|
| 303123 | ALU SHIM 3x6x2.0mm (10) | 992385 | HUDY TITANIUM ADJUSTABLE TURNBUCKLE 55MM M3.5 L/R (2) |
| 306219 | COMPOSITE SET OF SERVO SHIMS (4) | 902205 | HEX SCREW SH M2x5 (10) |
| 322660 | COMPOSITE BALL JOINT 5.4mm (12+1+1) | 902254 | HEX SCREW SH M2.5x4 (10) |
| 323357-G | COMPOSITE UPRIGHT REAR - LOWER POSITION - GRAPHITE | 902310 | HEX SCREW SH M3x10 (10) |
| 323382 | ALU REAR HUB PLATE FOR MULTI ADJ. UPRIGHT - 1-HOLE | 902312 | HEX SCREW SH M3x12 (10) |
| 325327 | REAR DRIVE SHAFT 77mm WITH 2.5mm PIN - SPRING STEEL™ | 940513 | BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2) |
| 325340-L | REAR DRIVE AXLE LB FOR REAR UPRIGHT - LOWER POSITION | 941014 | BALL-BEARING 10x15x4 RUBBER SEALED - GREASE (2) |
| 327210 | FRONT SUSPENSION PIVOT PIN (2) | 960030 | NUT M3 (10) |
| 362316 | OPEN ECCENTRIC BUSHING SET (2) | 980210 | PIN 2x10 (10) |
| 362658 | HARD STEEL BALL END 5.4mm WITH THREAD 8mm - NICKEL COATED (2) | 368202-S | SHOCK ABSORBERS 35.5MM - SHORT CAP - BIG BORE - SET (2) |
| 363520 | REAR WING POST - V2 (2) | | |
| 365230 | DRIVE SHAFT COUPLING - HUDY SPRING STEEL™ | | |
| 365356 | ALU WHEEL HUB 12mm - OFFSET "+1.5mm" (2) | | |
| 368045-T | TITANIUM SHOCK STANDOFFS (2) | | |

Numbers in parentheses () refer to quantities when purchased separately.

Included only in
CARPET
Edition

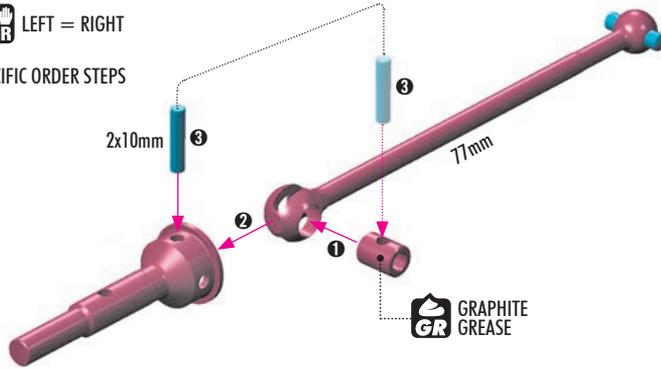


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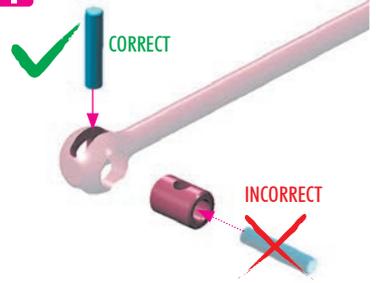
- XB4 FINAL SHOCK ASSEMBLY SET** **CARPET**
- | | | | |
|--------|---|--------|-------------------------|
| 362280 | ALU CONICAL SHIM 3x6x2.0MM (10) | 901308 | HEX SCREW SB M3x8 (10) |
| 362390 | ALU REAR SHOCK ABSORBER ADAPTER (1+1) - SET | 903308 | HEX SCREW SFH M3x8 (10) |

2x 980210 P 2x10

2x LEFT = RIGHT
 1 2 3 SPECIFIC ORDER STEPS



EXTREMELY IMPORTANT



#325341 REAR ADJ. DRIVE AXLE LB - HUDY SPRING STEEL™
 #325390 ALU SHIM 10x12x2mm (2)
 OPTION



Drive shaft length adjustment uses 4 different connecting hole positions at the drive axle end to allow changes to overall driveshaft length.

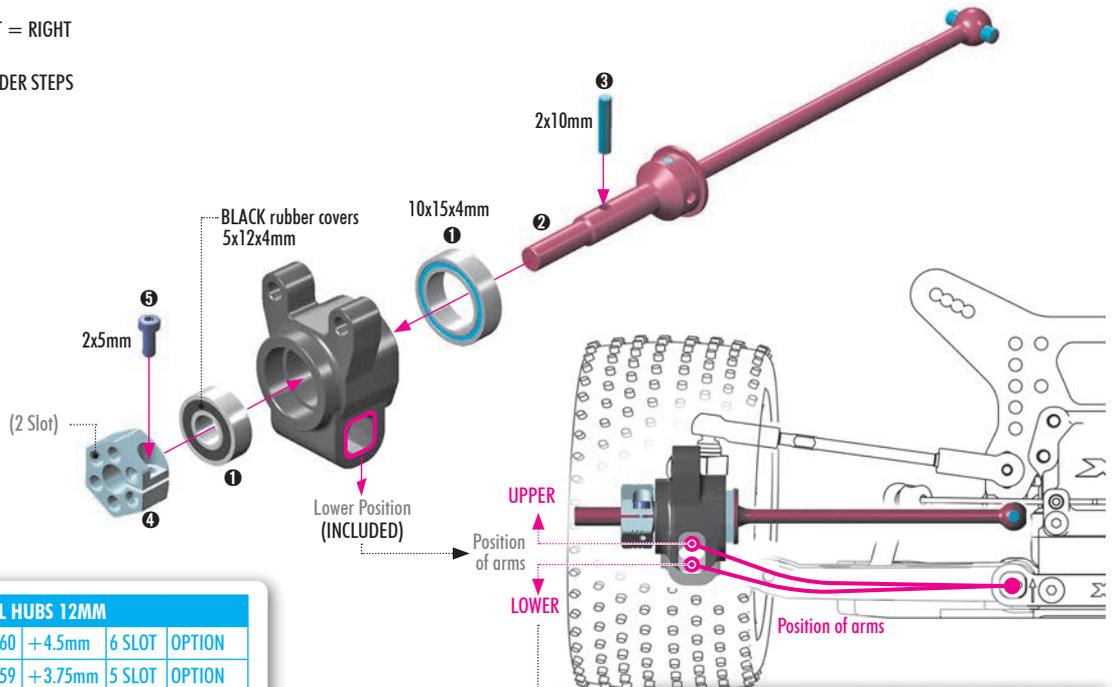
2x 902205 SH M2x5

2x 940513 BB 5x12x4

2x 941014 BB 10x15x4

2x 980210 P 2x10

2x LEFT = RIGHT
 1 2 3 4 SPECIFIC ORDER STEPS



OPTION	WHEEL HUBS 12MM	Offset	Slots	Material
	#365360	+4.5mm	6 SLOT	OPTION
	#365359	+3.75mm	5 SLOT	OPTION
	#365358	+3.0mm	4 SLOT	OPTION
	#365357	+2.25mm	3 SLOT	OPTION
	#365356	+1.5mm	2 SLOT	INCLUDED
	#365355	+0.75mm	1 SLOT	OPTION
	#365353	0mm	0 SLOT	OPTION
	#365354	-0.75mm	Lightw.	OPTION
	#365361	-1.25mm	Lightw.	OPTION

OPTIONAL HEX HUB EFFECTS

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

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

OPTION	XRAY BALL-BEARINGS	Size	Lubrication	Status
	#940512	5x12x4	OIL	OPTION
	#941015	10x15x4	OIL	OPTION
	#940513	5x12x4	GREASE	INCLUDED
	#941014	10x15x4	GREASE	INCLUDED

OPTION	REAR UPRIGHTS	Position	Status
	#323354-M	MEDIUM UPPER	OPTION
	#323357-M	MEDIUM LOWER	OPTION
	#323354-H	HARD UPPER	OPTION
	#323354-G	GRAPHITE UPPER	OPTION
	#323357-G	GRAPHITE LOWER	INCLUDED
	#323355	ALU HIGH UPPER	OPTION
	#323356	ALU LOW LOWER	OPTION
	#323358	EXTRA LOW LOWER	OPTION

UPPER position

We recommend for these types of surfaces and traction:
 • DIRT low & high traction
 • Wet ASTRO

LOWER position

We recommend for these types of surfaces and traction:
 • CARPET
 • Dry ASTRO
 • DIRT very high traction

! *The #325340-L fits all rear uprights with Lower Position, but it does not fit rear uprights with Upper Position.

2x LEFT = RIGHT

4x OPEN Eccentric bushings

INITIAL SETTING ORIENTATION

SIDE orientation CENTER orientation CORNER orientation

2x LEFT = RIGHT

! Open bushings must have same orientation on each side.

4x 303123 SHIM 3x6x2

4x 902312 SH M3x12

2x LEFT = RIGHT

INITIAL SETTING ORIENTATION

Alternative orientation

2mm

3x12mm

2x 306219 SHIM 3x6x3

4x 902254 SH M2.5x4

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

SHORTER WHEELBASE DIRT **LONGER WHEELBASE CARPET**

INITIAL SETTING Shim behind hub 3mm

INITIAL SETTING Shim in front of hub 3mm

2.5x4mm

TIGHTEN GENTLY

35mm

2.5x4mm

TIGHTEN GENTLY

ASSEMBLED VIEW

CHECK FOR FREE MOVEMENT

2x LEFT = RIGHT

RIGHT THREAD SIDE **LEFT THREAD SIDE**

! SLOT ORIENTATION

TIP Install with HUDY Ball Joint Wrench

LEFT THREAD

RIGHT THREAD

Ball ø5.4mm
Thread 8mm

TIP Install with HUDY Multi Tool.

INITIAL SETTING
approx. 27.6mm

INITIAL SETTING
approx. 27.6mm

CARPET DIRT

2x LEFT = RIGHT

ASSEMBLED VIEW

2x 303123 SHIM 3x6x2

2x 960030 N M3

2mm

M3

INITIAL SETTING CARPET

INITIAL SETTING DIRT

2x LEFT = RIGHT

ASSEMBLED VIEW

4x 902310 SH M3x10

REAR WING POST

3x10mm

INITIAL SETTING DIRT CARPET

When using the LUSH WIDE wing, do not use the outer holes for lowering the wing. Use only the initial setting.



2x 901308
SB M3x8



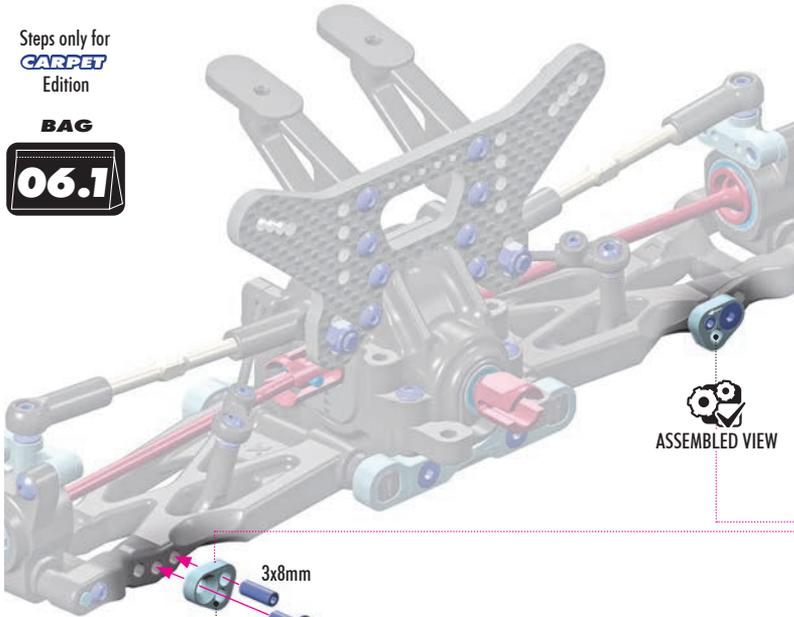
2x 903308
SFH M3x8

2x LEFT = RIGHT

Steps only for
CARPET
Edition

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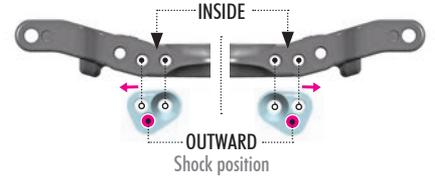
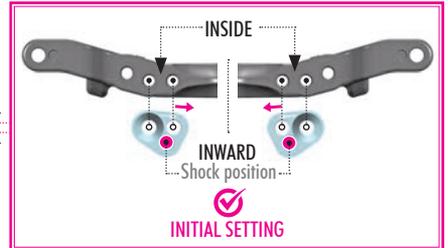
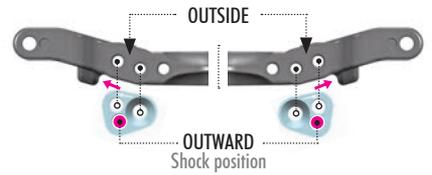
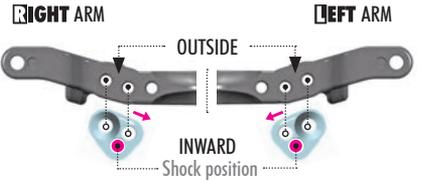


ASSEMBLED VIEW

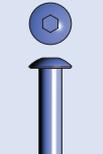
NOTE ORIENTATION **!**
3x8mm
3x8mm



SHOCK POSITION ALTERNATIVES



2x 362280
CON. SHIM 3x6x2



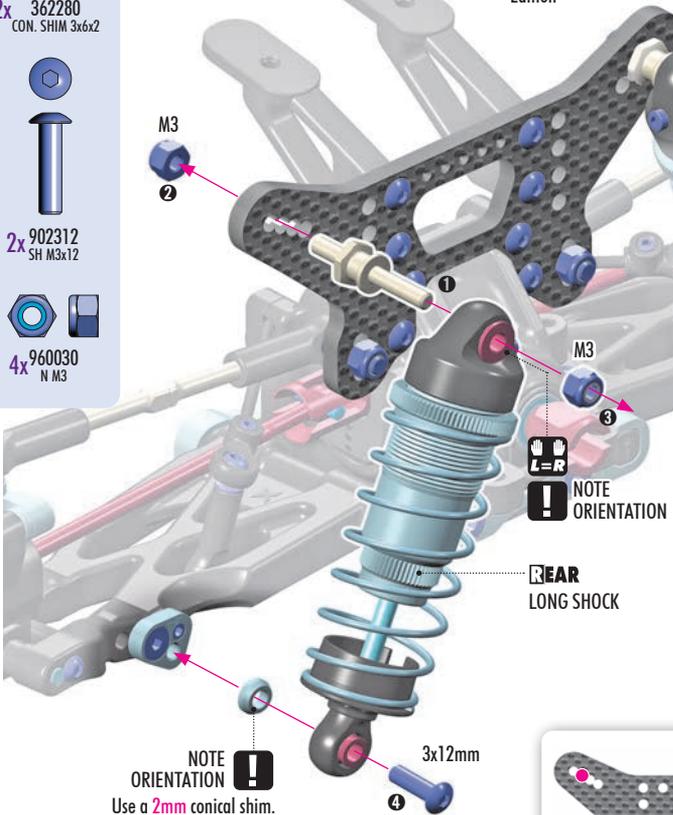
2x 902312
SH M3x12



4x 960030
N M3

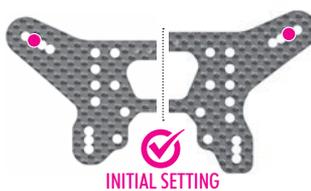
2x LEFT = RIGHT

Steps only for
CARPET
Edition

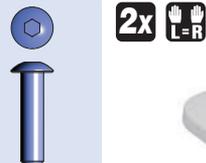


NOTE ORIENTATION **!**
Use a 2mm conical shim.

! Without it, the spring collar may touch the arm and affect suspension performance.



INITIAL SETTING
CARPET DIRT



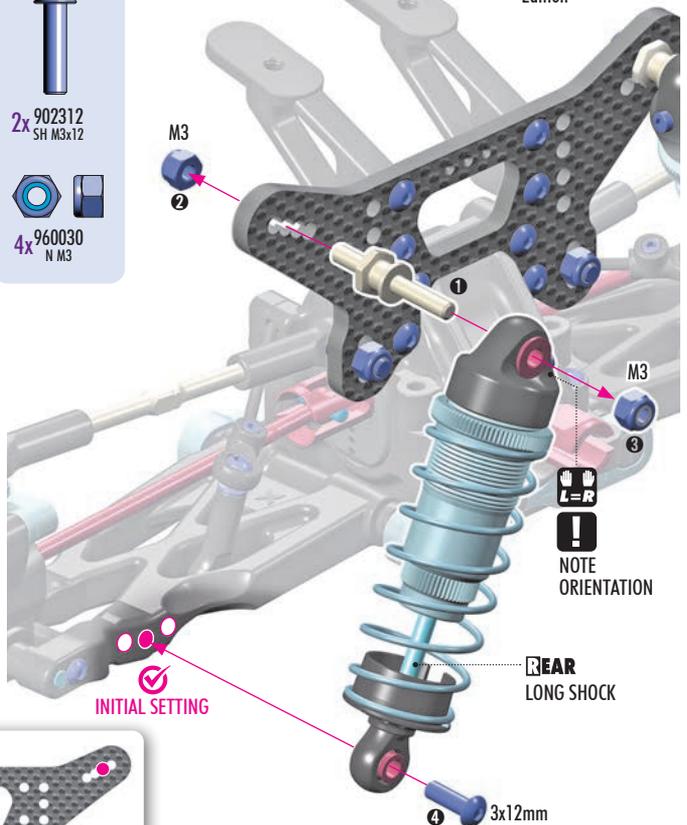
2x 902312
SH M3x12



4x 960030
N M3

2x LEFT = RIGHT

Steps only for
DIRT
Edition



INITIAL SETTING

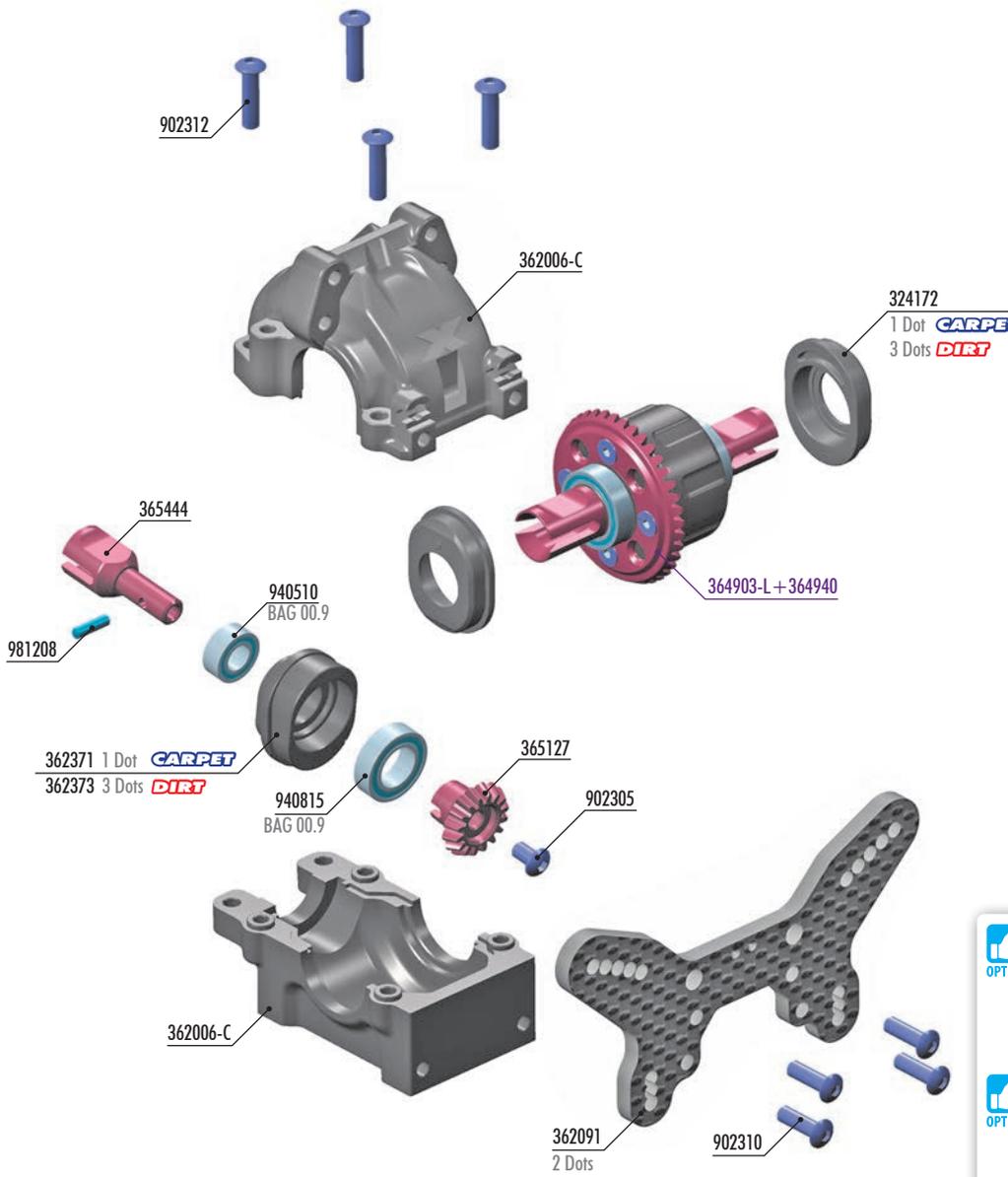
REAR
LONG SHOCK

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



ACTIVE DIFF SEGMENTS

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



OPTION	BALL-BEARING HUBS			
	#324172	1 DOT	INCLUDED	
	#324172	2 DOTS	OPTION	
	#324172	3 DOTS	INCLUDED	
OPTION	ANGLE HUBS - FRONT			
	#362371	1 DOT	INCLUDED	
	#362372	2 DOTS	OPTION	
	#362373	3 DOTS	INCLUDED	

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



BAG
07

- 362006-C DIFF BULKHEAD HORIZONTAL SPLIT DESIGN FOR COLLAR - F/R - SET
- 362091 CARBON SHOCK TOWER HS BULKHEAD FOR WING – 2 DOTS - FRONT
- 365127 STEEL BEVEL DRIVE GEAR - FOR HS BULKHEAD - CNC-MACHINED - 16T
- 365444 CENTER 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-L GEAR DIFFERENTIAL - LIGHTWEIGHT - SET
- 364940 STEEL DIFFERENTIAL BEVEL GEAR FOR LARGE VOLUME DIFF 40T
- CARPET**
- 362371 ANGLED HUB FOR BEVEL DRIVE GEAR - FRONT HS BULKHEAD - 1 DOT
- 324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB - 1 DOT (2)
- DIRT**
- 362373 ANGLED HUB FOR BEVEL DRIVE GEAR - FRONT HS BULKHEAD - 3 DOTS
- 324172 COMPOSITE ADJUSTMENT BALL-BEARING HUB - 3 DOTS (2)

Numbers in parentheses () refer to quantities when purchased separately.

7. FRONT CENTRAL TRANSMISSION

1x 902305
SH M3x5



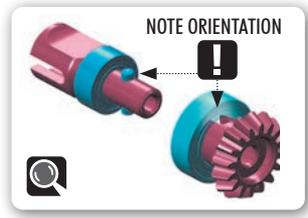
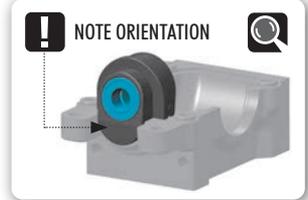
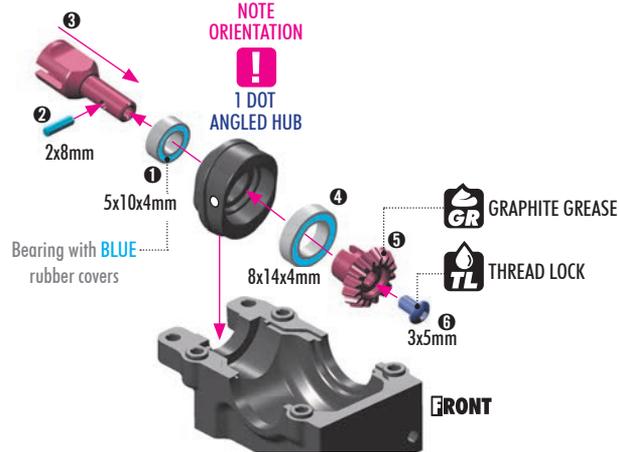
1x 940510
BB 5x10x4



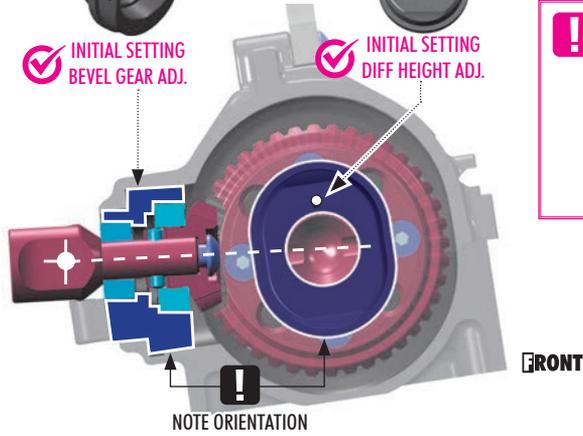
1x 940815
BB 8x14x4



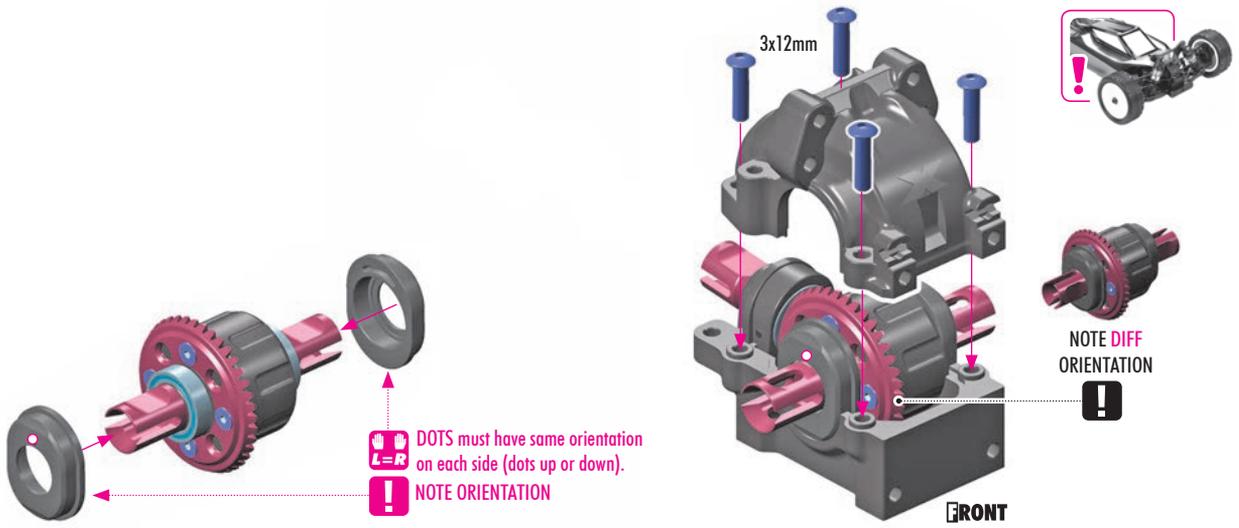
1x 981208
P 2x8



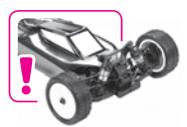
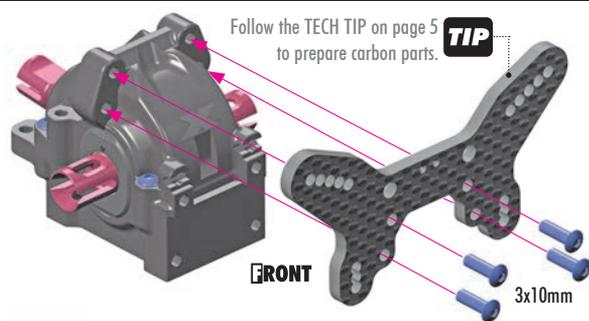
FRONT BEVEL DRIVE GEAR & DIFFERENTIAL HEIGHT ADJUSTMENT



4x 902312
SH M3x12



4x 902310
SH M3x10





1x 902305 SH M3x5



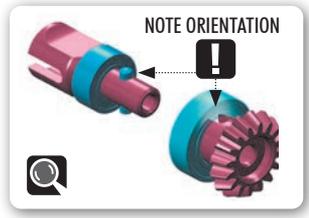
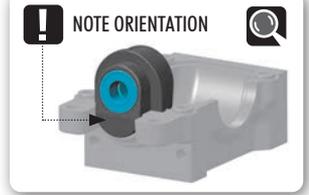
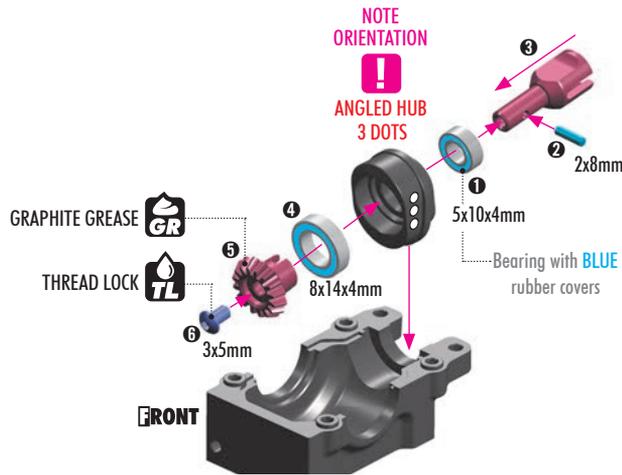
1x 940510 BB 5x10x4



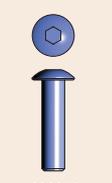
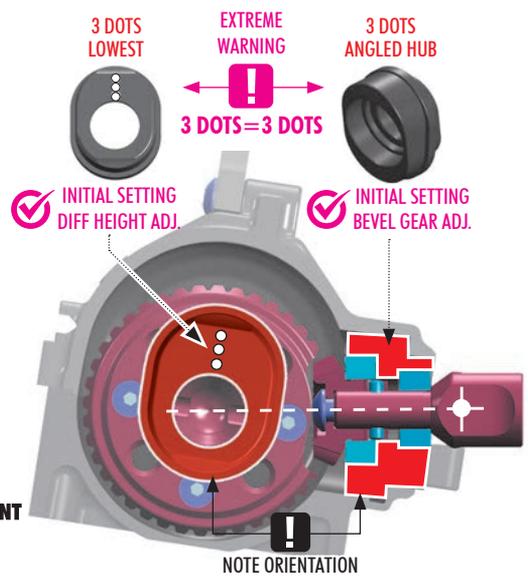
1x 940815 BB 8x14x4



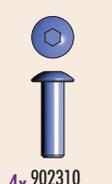
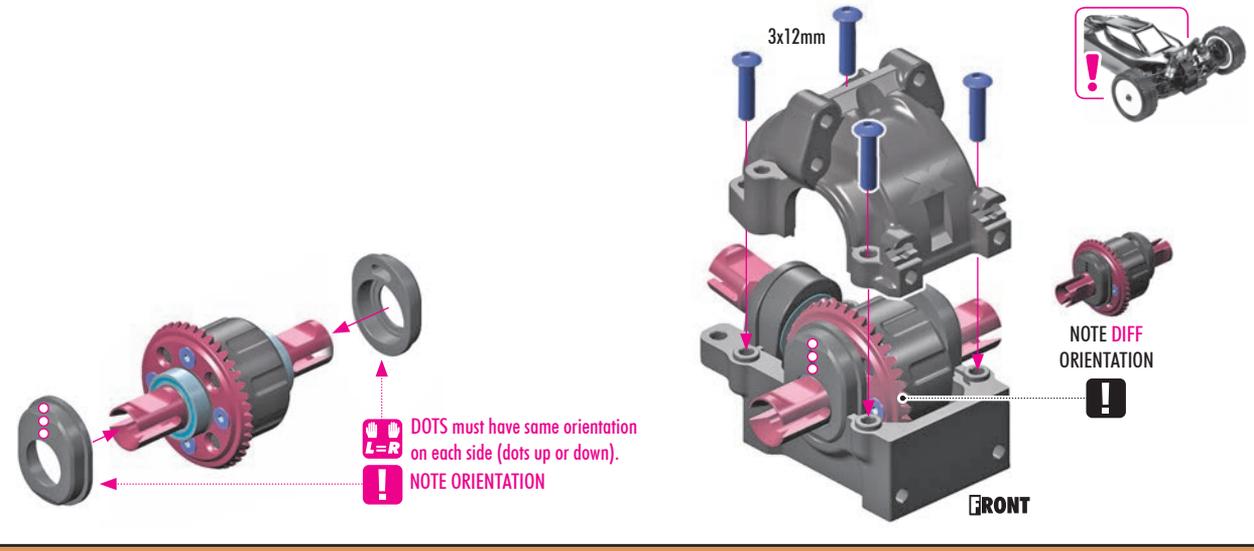
1x 981208 P 2x8



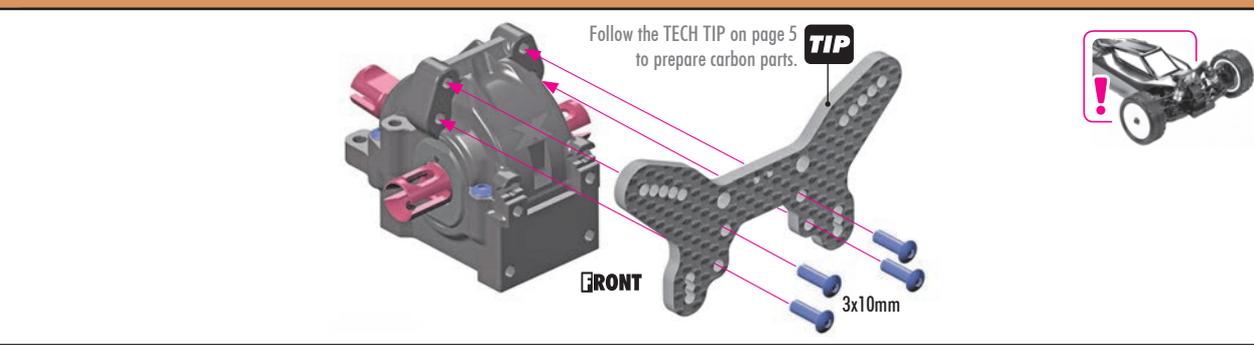
DIRT
FRONT BEVEL DRIVE GEAR & DIFFERENTIAL HEIGHT ADJUSTMENT

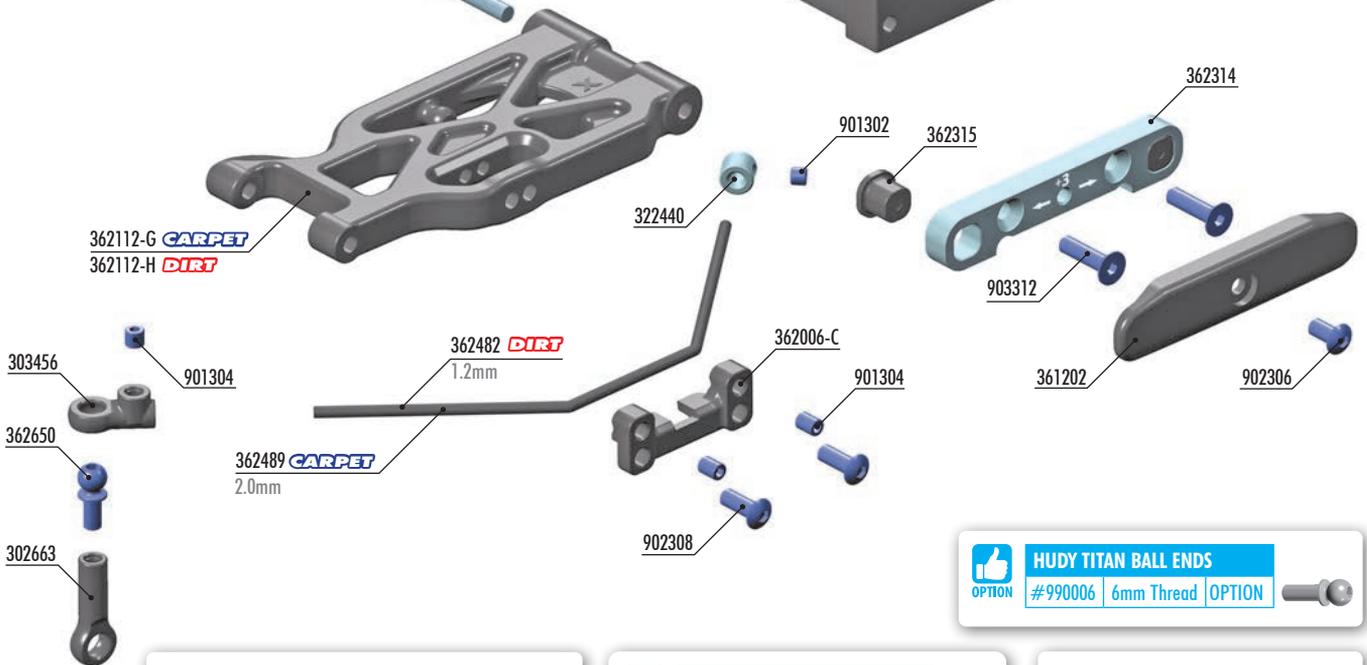
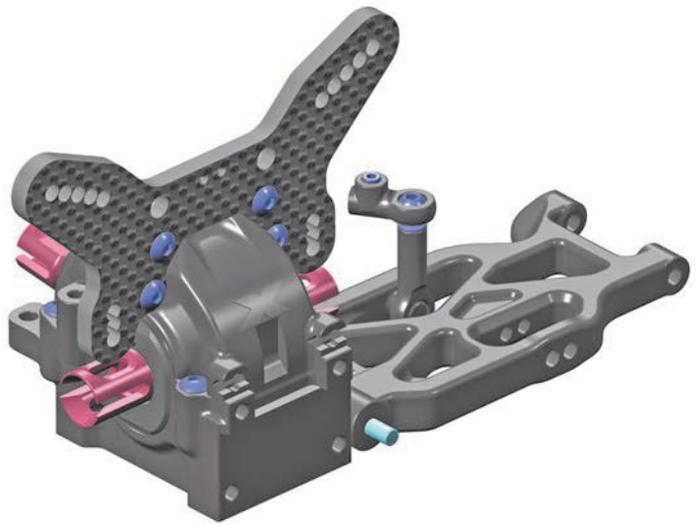
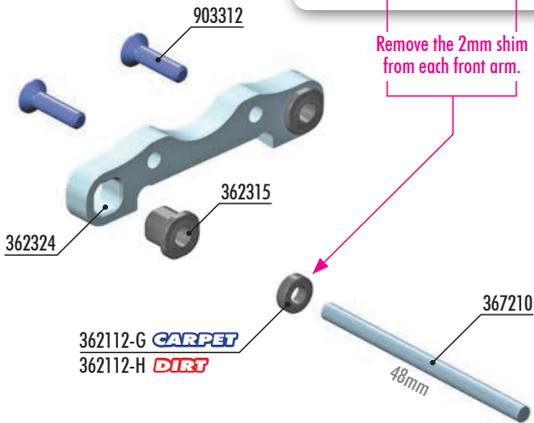


4x 902312 SH M3x12



4x 902310 SH M3x10





HUDY TITAN BALL ENDS
 #990006 6mm Thread

#362313
 ALU LOWER SUSPENS. HOLDER FOR HS BULKHEAD - FF

NARROW NARROW

#362323
 ALU LOWER SUSPENSION HOLDER FOR HS BULKHEAD - FR

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

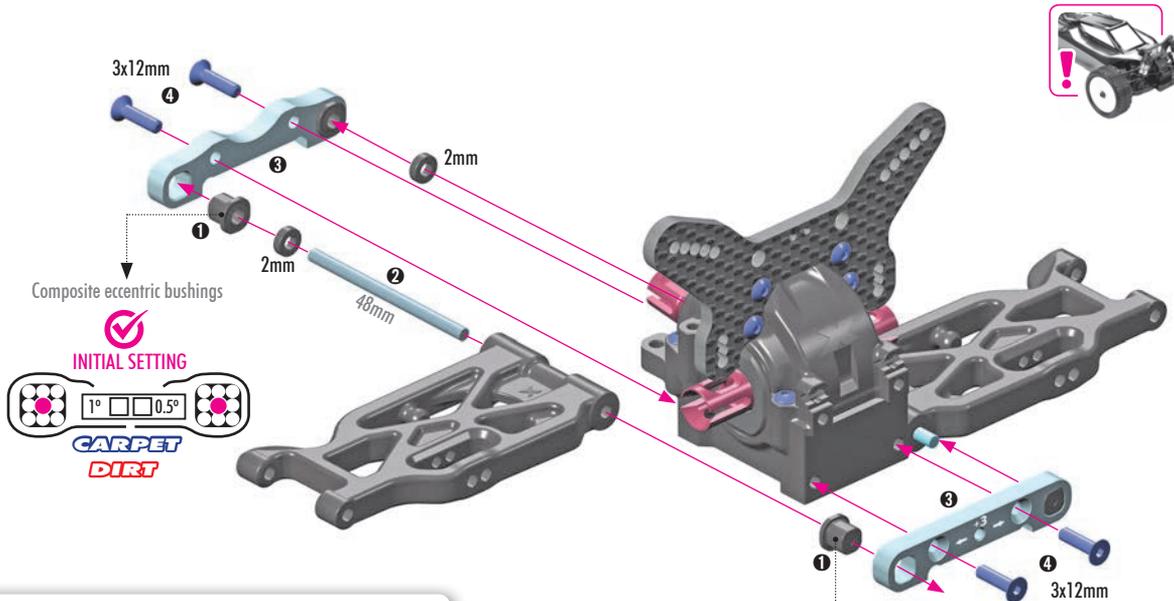
FRONT ANTI-ROLL BARS		
#362481	1.1mm	OPTION
#362482	1.2mm	INCLUDED
#362483	1.3mm	OPTION
#362484	1.4mm	OPTION
#362486	1.6mm	OPTION
#362488	1.8mm	OPTION
#362489	2.0mm	INCLUDED



- 302663 COMPOSITE BALL JOINT 4.9mm - OPEN - V2 (8)
- 303456 COMPOSITE ANTI-ROLL BAR ø2.0mm BALL JOINT 4.9mm (4)
- 322440 ALU ANTI-ROLL BAR COLLAR
- 361202 COMPOSITE FRONT BUMPER ALIGNED WITH CHASSIS
- 362006-C DIFF BULKHEAD - HORIZONTAL SPLIT DESIGN (HS) - FRONT/REAR - SET
- 362314 ALU LOWER SUSP. HOLDER WIDE FOR HS BULKHEAD - FRONT-FRONT
- 362315 ECCENTRIC BUSHING SET (2)
- 362324 ALU LOWER SUSP. HOLDER WIDE FOR HS BULKHEAD - FRONT-REAR
- 362650 BALL END 4.9MM WITH THREAD 6mm (2)
- 367210 SUSPENSION PIVOT PIN (2)
- 901302 HEX SCREW SB M3x2.5 (10)
- 901304 HEX SCREW SB M3x4 (10)
- 902306 HEX SCREW SH M3x6 (10)
- 902308 HEX SCREW SH M3x8 (10)
- 903312 HEX SCREW SFH M3x12 (10)
- DIRT**
 362482 ANTI-ROLL BAR 1.2mm
 362112-H COMPOSITE SUSPENSION ARM FRONT LOWER - HARD
- CARPET**
 362489 ANTI-ROLL BAR 2.0mm
 362112-G COMPOSITE SUSPENSION ARM FRONT LOWER - GRAPHITE

Numbers in parentheses () refer to quantities when purchased separately.

- 10
- 2x From Front Arm SHIM 3x6.5x2
- 4x 903312 SFH M3x12



TIP If the suspension arm DOES NOT move freely use a HUDY Arm Reamer to size the holes of the arms.

Arm Reamer 3.0mm (HUDY #107643)

NOTE ORIENTATION

FRONT REAR

#362313 ALU LOWER SUSPENS. HOLDER FOR HS BULKHEAD - FF

#362323 ALU LOWER SUSPENSION HOLDER FOR HS BULKHEAD - FR

CHECK FOR FREE MOVEMENT

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

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

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.

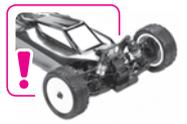
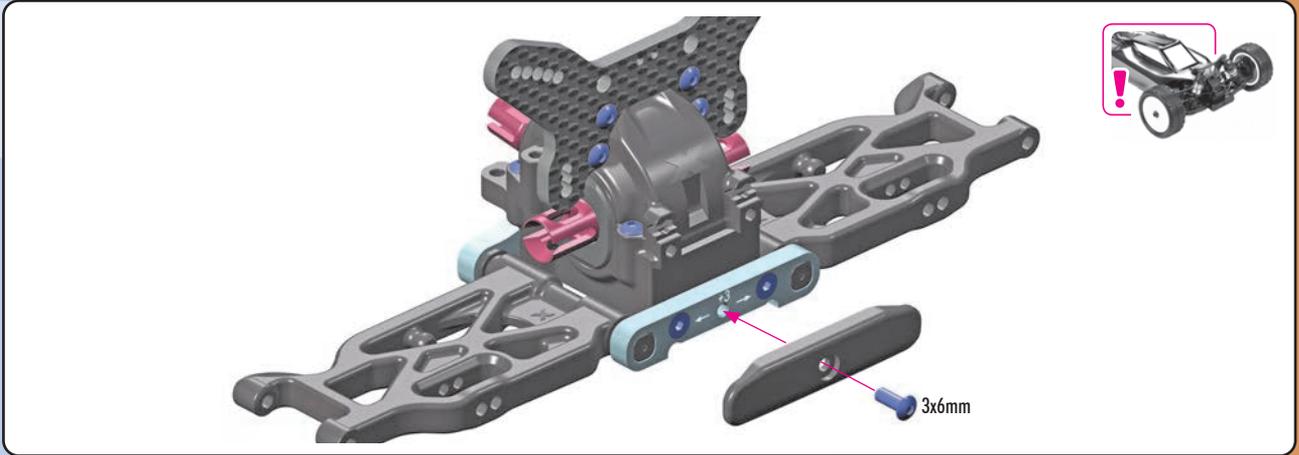
8. FRONT SUSPENSION

CARPET

DIRT



1x 902306
SH M3x6



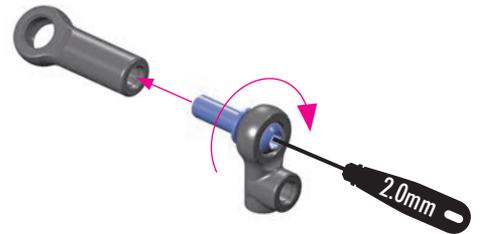
2x



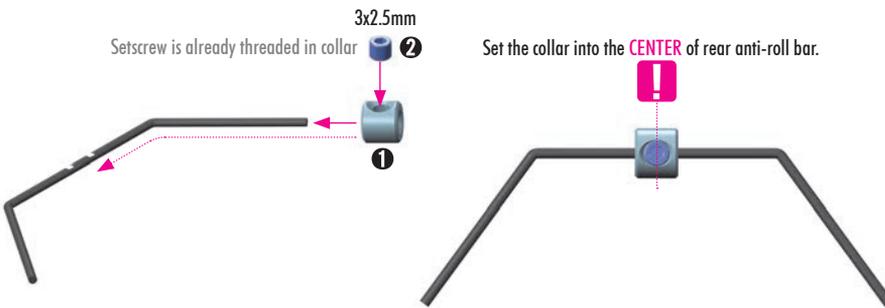
TIP Install with HUDY Multi Tool.

#990006
OPTION HUDY TITAN BALL ENDS
6mm THREAD

2x



1x 901302
SB M3x2.5

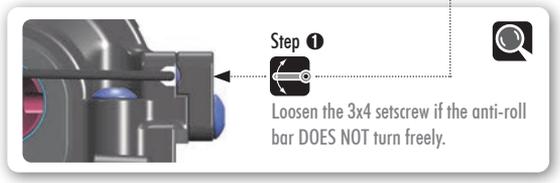
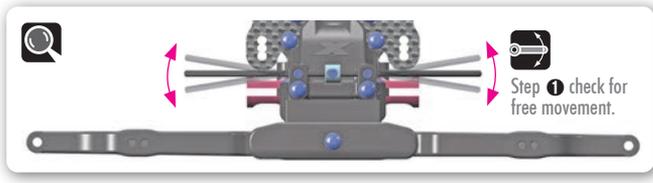
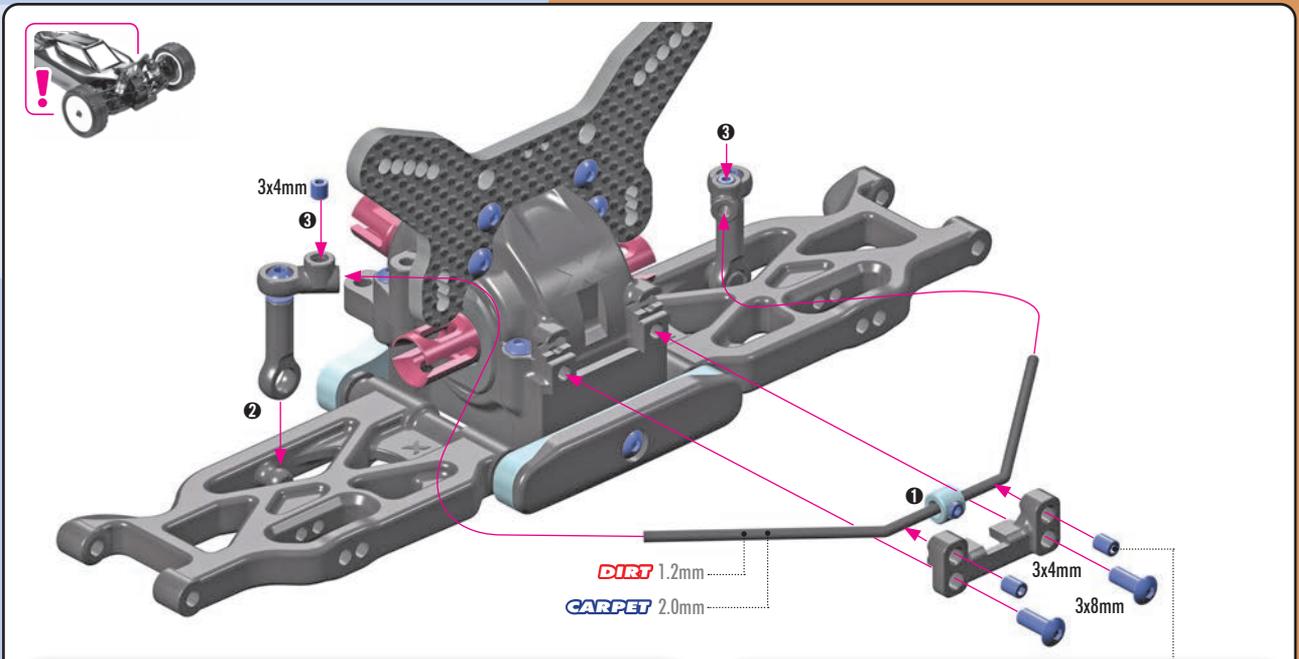


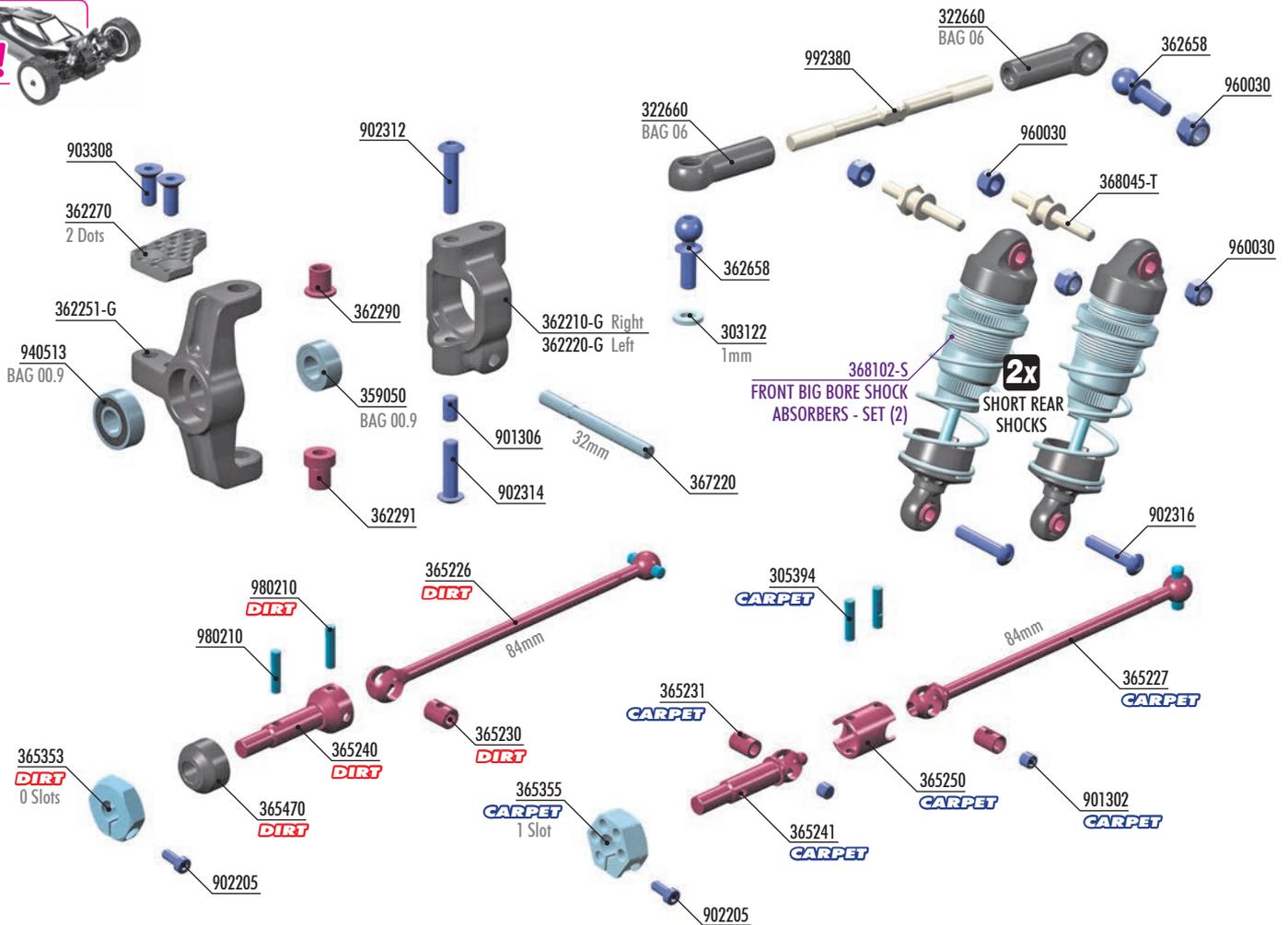
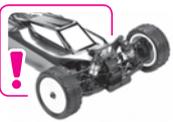
FRONT ANTI-ROLL BARS		
#362481	1.1mm	OPTION
#362482	1.2mm	INCLUDED
#362483	1.3mm	OPTION
#362484	1.4mm	OPTION
#362486	1.6mm	OPTION
#362488	1.8mm	OPTION
#362489	2.0mm	INCLUDED

2x 901304
SB M3x4



2x 902308
SH M3x8





OPTION

STEERING BLOCK EXTENSIONS		
#362274	1 DOT	OPTION
#362270	2 DOTS	INCLUDED
#362275	3 DOTS	OPTION

Maximum steering 1 Dot
2 Dots
3 Dots Reduced steering

Steering angle of the outside wheel.

OPTION

#360901
ALU STEERING BLOCKS & 7° C-HUBS - SET

BAG

09

- 303122 ALU SHIM 3x6x1.0mm (10)
- 322660 COMPOSITE BALL JOINT 5.4mm (12+1+1)
- 362210-G COMPOSITE C-HUB 9° DEG. RIGHT - GRAPHITE
- 362220-G COMPOSITE C-HUB 9° DEG. LEFT - GRAPHITE
- 362251-G COMPOSITE STEERING BLOCK - GRAPHITE
- 362270 CARBON EXTENSION FOR ALU STEERING BLOCK (1+1) - 2 DOTS
- 362290 STEEL STEERING BUSHING - SHORT (2)
- 362291 STEEL STEERING BUSHING - LONG (2)
- 362658 HARD STEEL BALL END 5.4mm WITH THREAD 8mm - NICKEL COATED (2)
- 367220 FRONT ARM PIVOT PIN (2)
- 368045-T TITANIUM SHOCK STANDOFFS (2)
- 992380 HUDY TITANIUM ADJUSTABLE TURNBUCKLE 50mm M3.5 L/R (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)
- 902316 HEX SCREW SH M3x16 (10)
- 903308 HEX SCREW SFH M3x8 (10)

- 940513 BALL-BEARING 5x12x4 RUBBER SEALED - GREASE (2)
- 960030 NUT M3 (10)
- 980210 PIN 2x10 (10)

CARPET

- 365227 ECS DRIVE SHAFT 84mm WITH 2.5mm PIN - HUDY SPRING STEEL™
- 365231 ECS DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
- 365241 FRONT ECS DRIVE AXLE - HUDY SPRING STEEL™
- 365250 ECS DRIVE SHAFT CASE - HUDY SPRING STEEL™
- 365355 ALU WHEEL HUB 12mm - OFFSET (+0.75mm) - (2)
- 305394 ECS DRIVE SHAFT PIN 2 x 9 WITH FLAT SPOT (2)
- 901302 HEX SCREW SB M3x2.5 (10)

DIRT

- 365226 FRONT DRIVE SHAFT 84mm 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 (0mm) - (2)
- 365470 COMPOSITE DRIVE SHAFT SAFETY COLLAR (3)

- 368102-S SHOCK ABSORBERS 30mm - SHORT CAP - BIG BORE - SET (2)

Numbers in parentheses () refer to quantities when purchased separately.

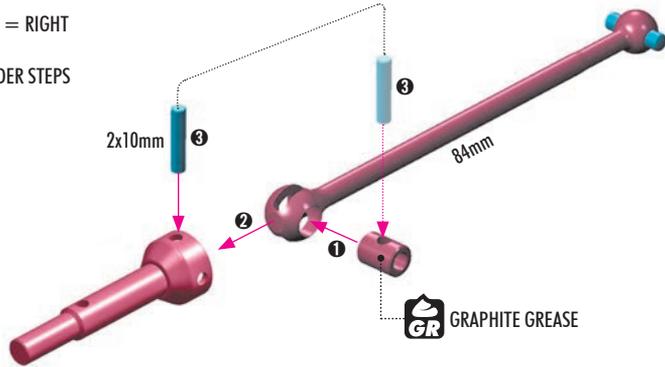
9. FRONT TRANSMISSION

DIRT

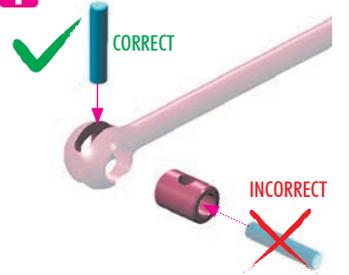
2x 980210
P 2x10

2x **L=R** LEFT = RIGHT
1 2 3 SPECIFIC ORDER STEPS

Steps only for **DIRT** Edition



EXREMELY IMPORTANT

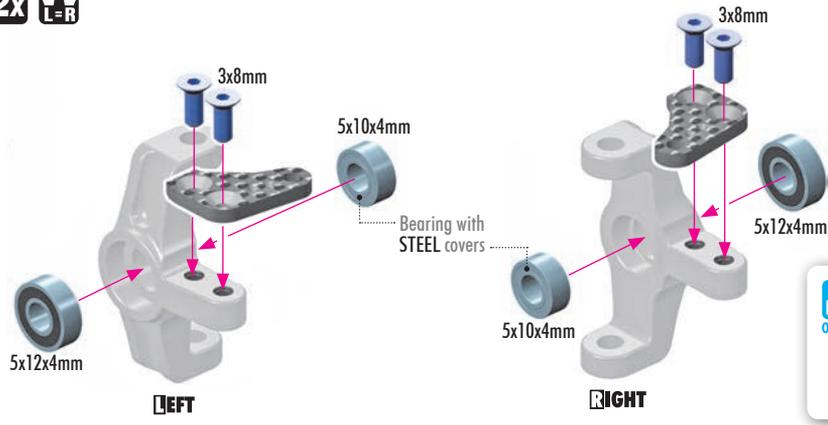


4x 903308
SFH M3x8

2x 359050
BB 5x10x4

2x 940513
BB 5x12x4

2x **L=R**

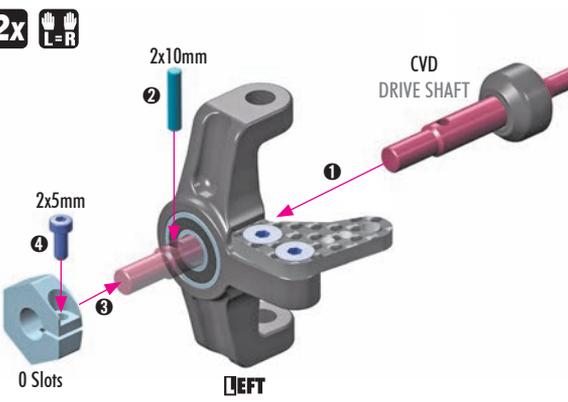


STEERING BLOCKS		
OPTION	#362251-M MEDIUM	OPTION
	#362251-G GRAPHITE	INCLUDED
	#362261 ALU	OPTION

2x 902205
SH M2x5

2x 980210
P 2x10

2x **L=R**



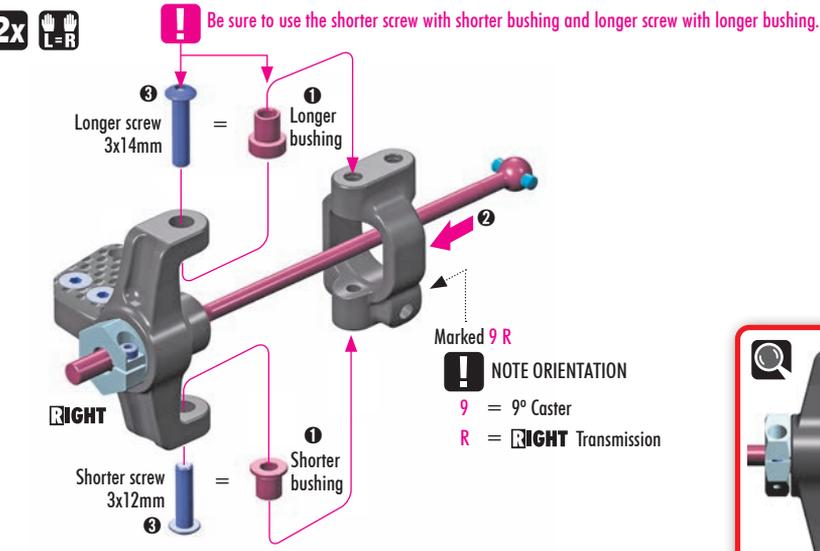
WHEEL HUBS 12MM		
OPTION	#365360 +4.5mm - 6 SLOTS	OPTION
	#365359 +3.75mm - 5 SLOTS	OPTION
	#365358 +3.0mm - 4 SLOTS	OPTION
	#365357 +2.25mm - 3 SLOTS	OPTION
	#365356 +1.5mm - 2 SLOTS	OPTION
	#365355 +0.75mm - 1 SLOT	OPTION
	#365353 0mm - 0 SLOTS	INCLUDED
	#365354 -0.75mm - Lightw.	OPTION
	#365361 -1.25mm - 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

2x 902312
SH M3x12

2x 902314
SH M3x14

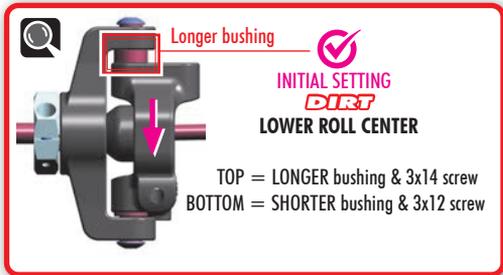
2x **L=R**



#360901
ALU STEER. BLOCKS & 7° C-HUBS - SET



NOTE ORIENTATION
9 = 9° Caster
R = RIGHT Transmission



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

- 4x 901302 SB M3x2.5
- 4x 305394 P 2x9

2x **Steps only for CARPET Edition**

NOTE ORIENTATION

GRAPHITE GREASE

2x9mm

84mm

THREAD LOCK

NOTE ORIENTATION

CUTTAWAY VIEW

Thread only from one side.

- 4x 903308 SFH M3x8
- 2x 359050 BB 5x10x4
- 2x 940513 BB 5x12x4

2x

3x8mm

5x10x4mm

Bearing with STEEL covers

5x12x4mm

LEFT

RIGHT

OPTION	STEERING BLOCKS	OPTION
	#362251-M MEDIUM	OPTION
	#362251-G GRAPHITE	INCLUDED
	#362261 ALU	OPTION

- 2x 902205 SH M2x5
- 2x 980210 P 2x10

2x

2x10mm

ECS DRIVE SHAFT

2x5mm

1 Slot

LEFT

OPTION	WHEEL HUBS 12MM	OPTION
	#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	INCLUDED
	#365353 0mm 0 SLOTS	OPTION
	#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

- 2x 902312 SH M3x12
- 2x 902314 SH M3x14

2x

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

Shorter screw 3x12mm

Shorter bushing

1

2

Marked 9 R

NOTE ORIENTATION

9 = 9° Caster

R = **RIGHT** Transmission

Longer screw 3x14mm

Longer bushing

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

#360901 ALU STEER. BLOCKS & 7° C-HUBS - SET

TOP = SHORTER bushing & 3x12 screw

BOTTOM = LONGER bushing & 3x14 screw

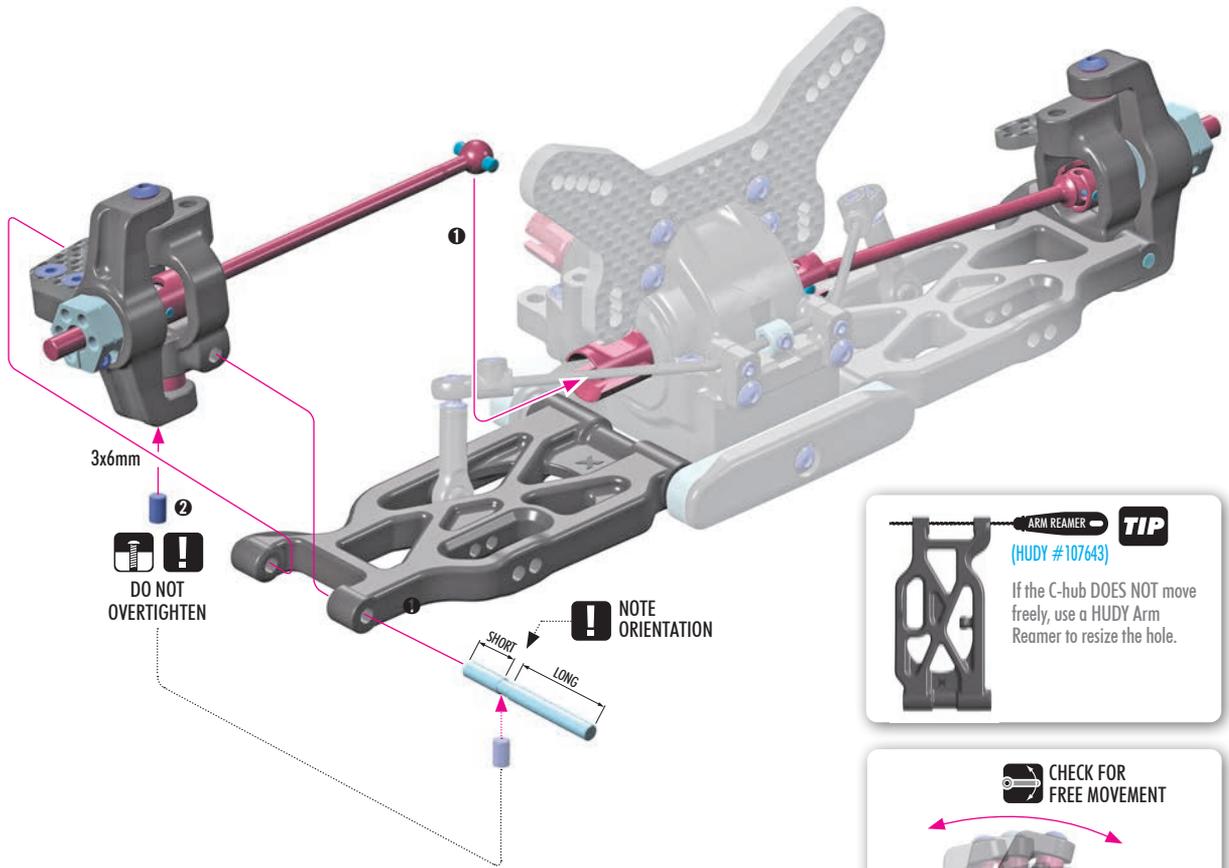
HIGHER ROLL CENTER

INITIAL SETTING

CARPET

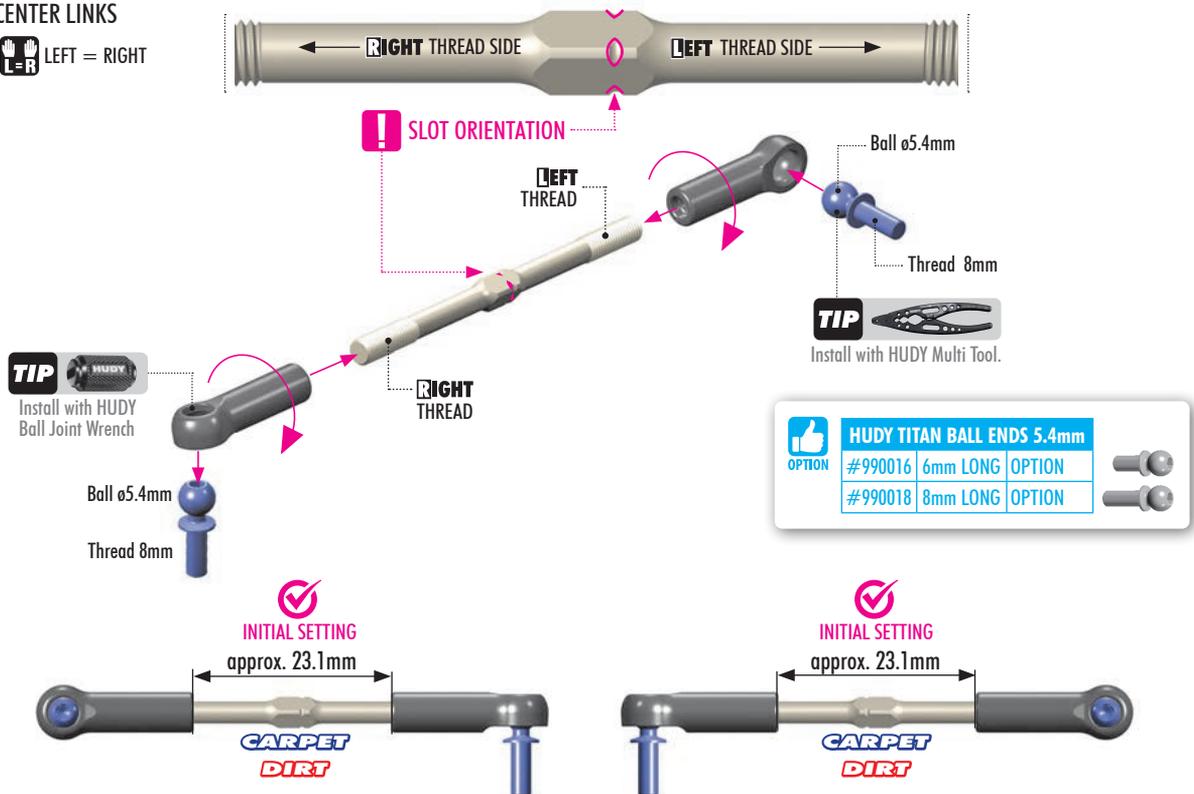
2x 901306
SB M3x6

2x LEFT = RIGHT



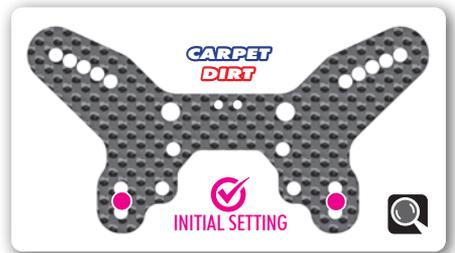
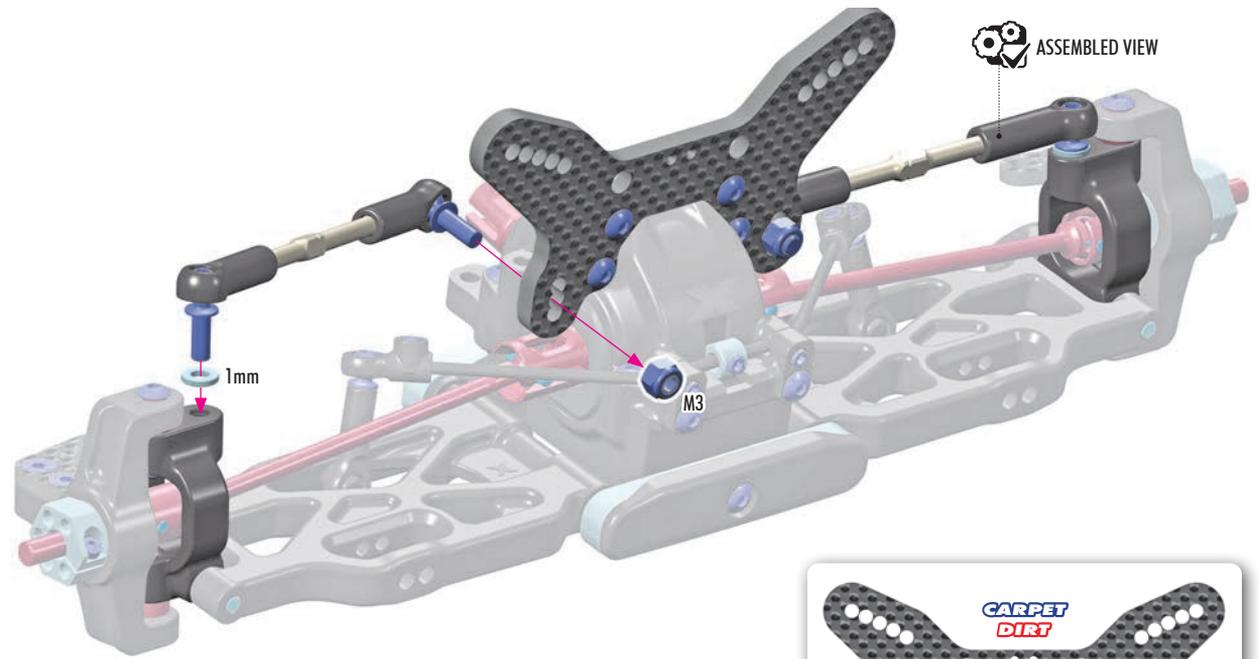
ROLL CENTER LINKS

2x LEFT = RIGHT

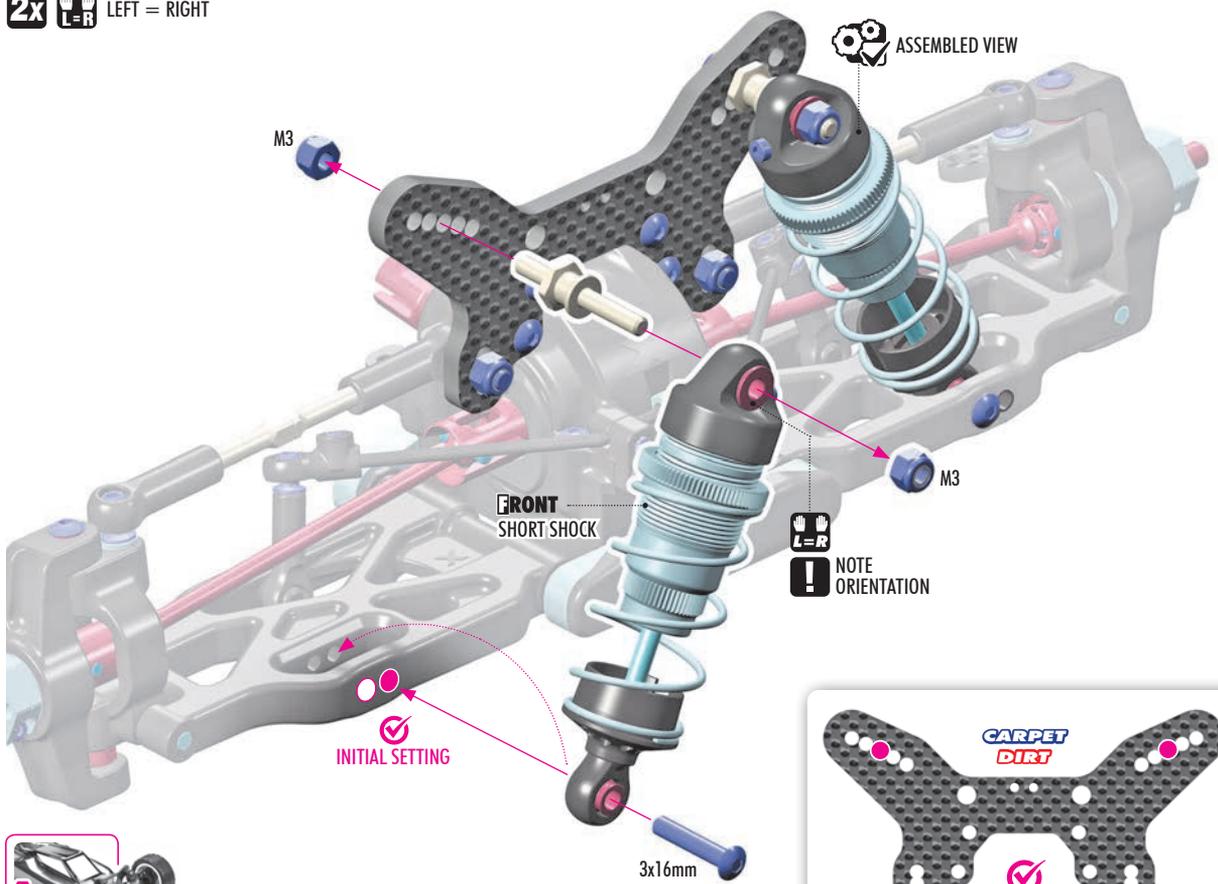


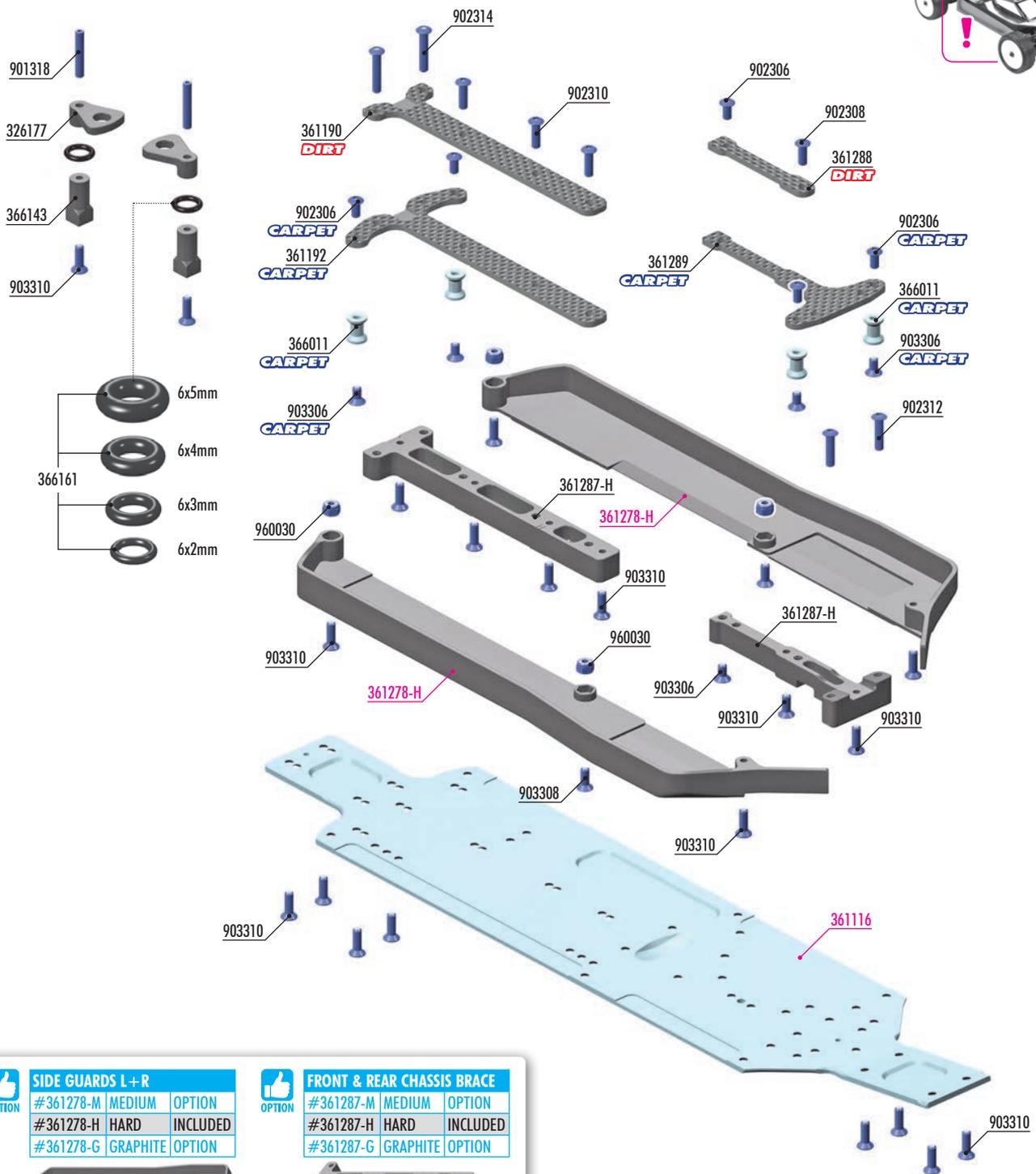


2x LEFT = RIGHT



2x LEFT = RIGHT





SIDE GUARDS L+R			
OPTION	#361278-M	MEDIUM	OPTION
	#361278-H	HARD	INCLUDED
	#361278-G	GRAPHITE	OPTION

FRONT & REAR CHASSIS BRACE			
OPTION	#361287-M	MEDIUM	OPTION
	#361287-H	HARD	INCLUDED
	#361287-G	GRAPHITE	OPTION



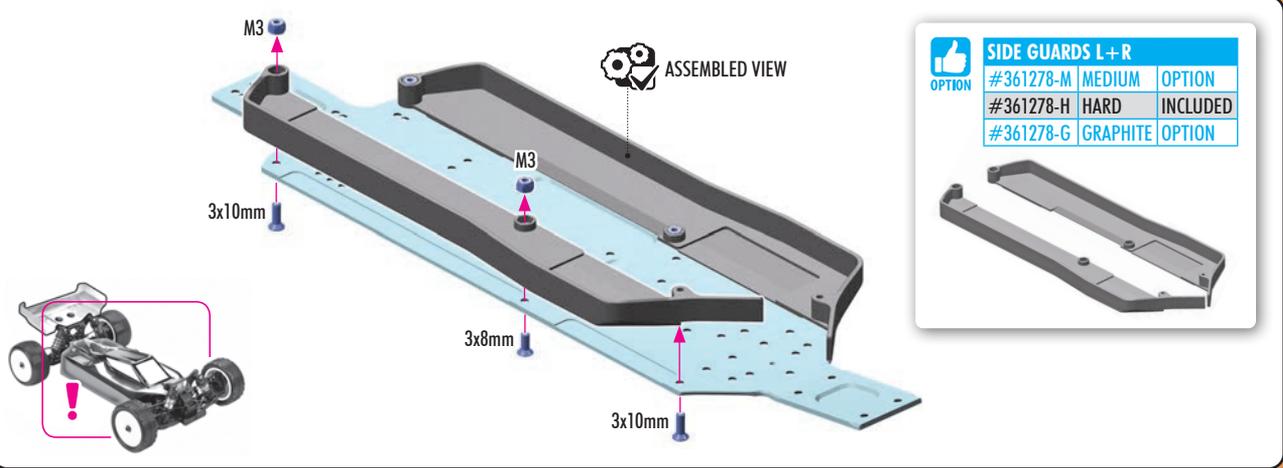
BAG
10

- 326177 COMPOSITE BATTERY CLAMP (2)
- 361287-H COMPOSITE CHASSIS BRACE FRONT & REAR - NARROW - HARD
- 366143 COMPOSITE BATTERY HOLDER STAND (2)
- 366161 SET OF O-RINGS (6x2, 6x3, 6x4, 6x5mm)
- 901318 HEX SCREW SB M3x18 (10)
- 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)
- 903306 HEX SCREW SFH M3x6 (10)
- 903308 HEX SCREW SFH M3x8 (10)

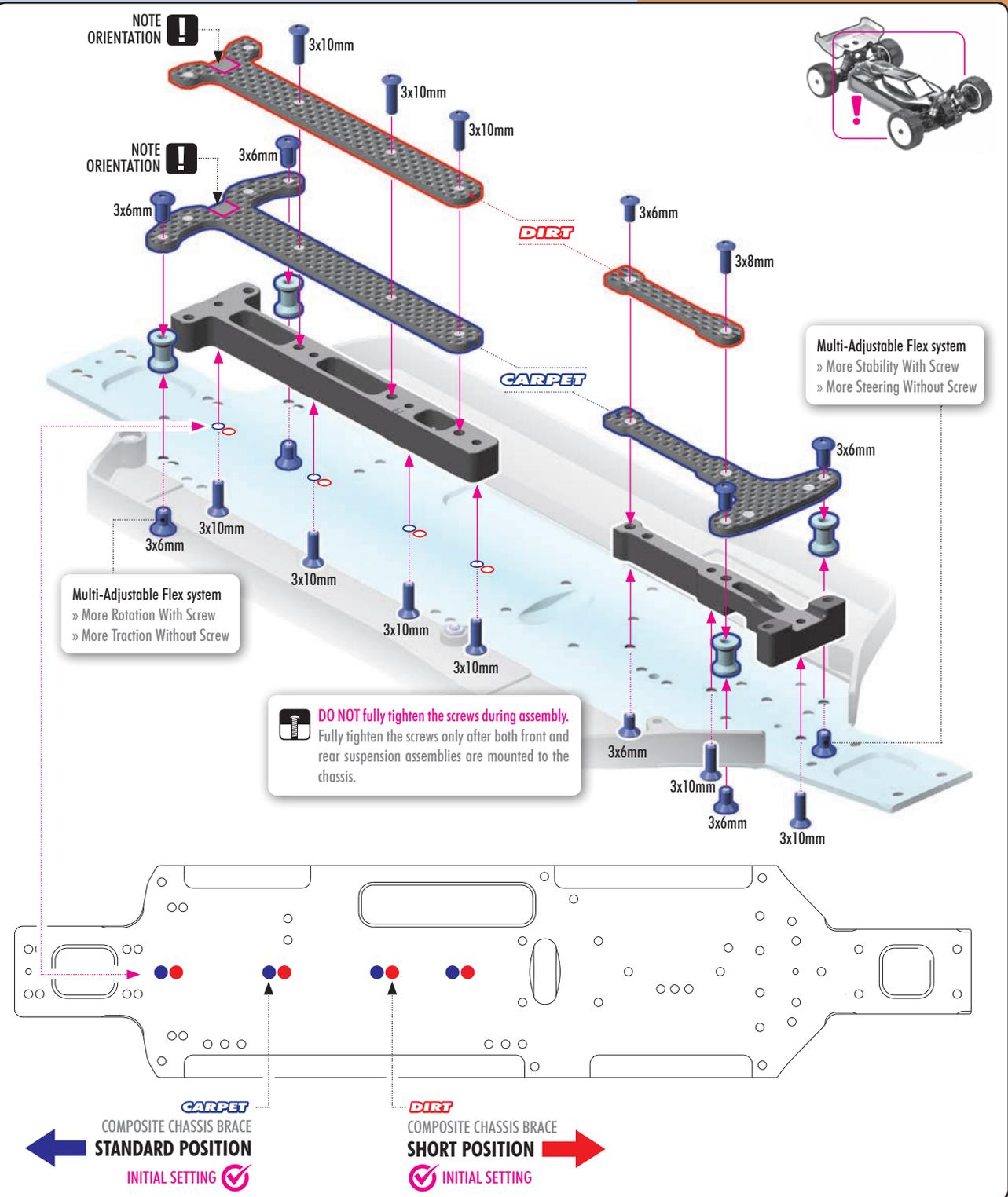
- 903310 HEX SCREW SFH M3x10 (10)
- 960030 NUT M3 (10)

- CARPET**
- 361192 CARBON CHASSIS T-BRACE - REAR
 - 361289 CARBON CHASSIS T-BRACE - FRONT
 - 366011 ALU BRACE MOUNT - SWISS 7075 T6 (2)
- DIRT**
- 361190 CARBON CHASSIS BRACE
 - 361288 CARBON CHASSIS WIRE COVER
- 361116 ALU CHASSIS 2.0mm - SWISS 7075 T6
- 361278-H COMPOSITE CHASSIS SIDE GUARDS L+R - NARROW FRONT - V3 - HARD

Numbers in parentheses () refer to quantities when purchased separately.

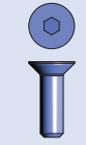


CARPET HARDWARE

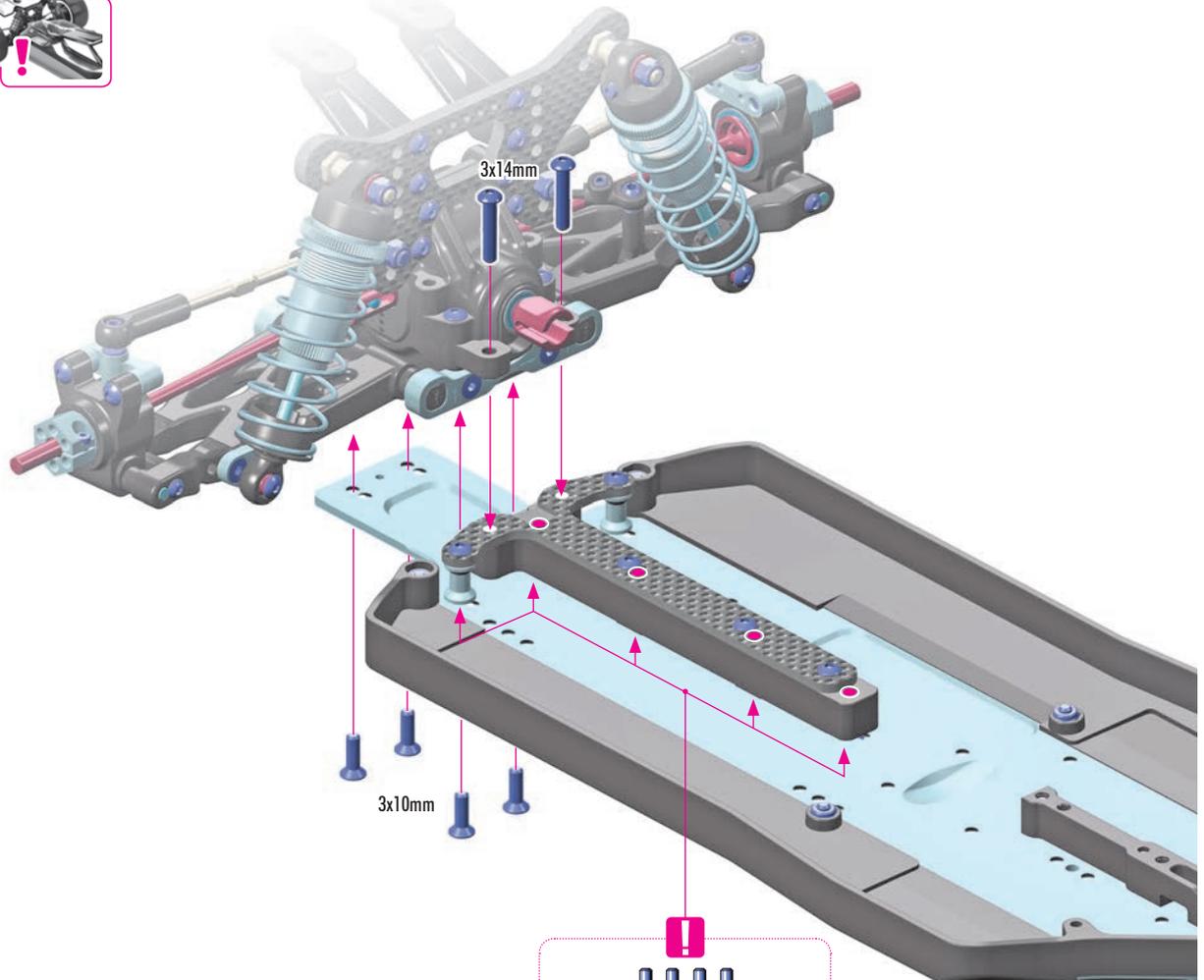




2x 902314
SH M3x14

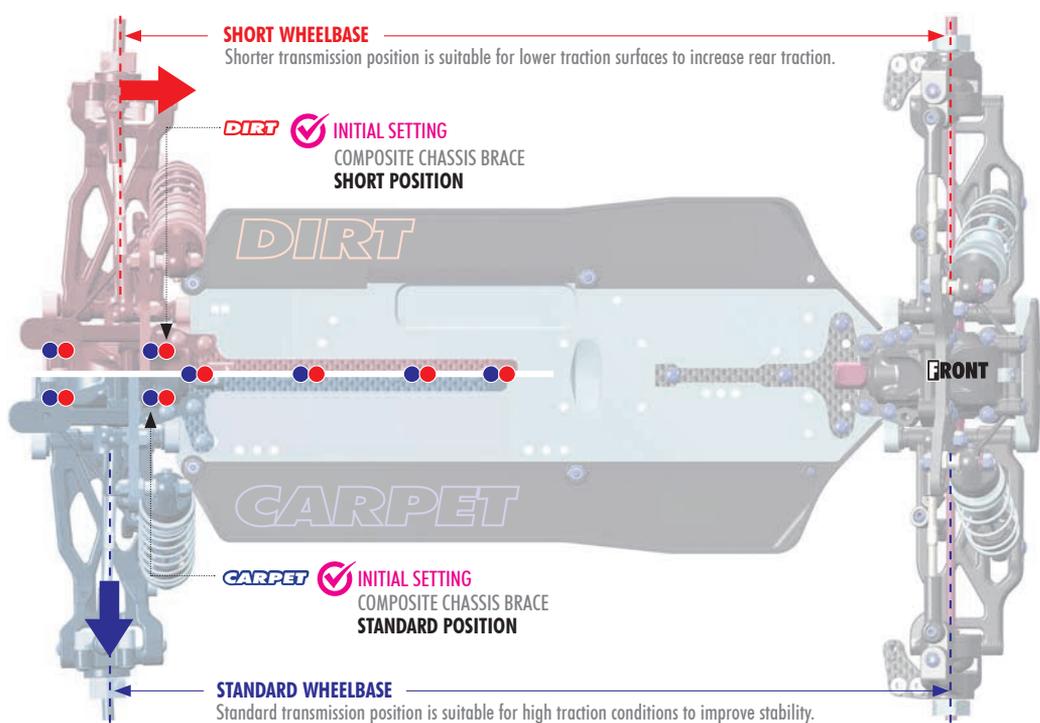


4x 903310
SFH M3x10



!

After you mount the rear suspension assembly to the chassis, fully tighten all 4 screws 3x10mm that were previously left untightened (page 40, step 2).



SHORT WHEELBASE
Shorter transmission position is suitable for lower traction surfaces to increase rear traction.

DIRT **INITIAL SETTING**
COMPOSITE CHASSIS BRACE
SHORT POSITION

CARPET **INITIAL SETTING**
COMPOSITE CHASSIS BRACE
STANDARD POSITION

STANDARD WHEELBASE
Standard transmission position is suitable for high traction conditions to improve stability.



3x12mm

3x10mm

TOP VIEW

After you mount the rear suspension assembly to the chassis, fully tighten all 3 screws that were previously left untightened (page 40, step 2).



#366161

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

	6x5mm	1x
	6x4mm	1x
	6x3mm	1x
	6x2mm	1x

3x18mm

Orientation for LOW BATTERY PACK

Battery (NOT INCLUDED)

Orientation for STANDARD BATTERY PACK

ASSEMBLED VIEW

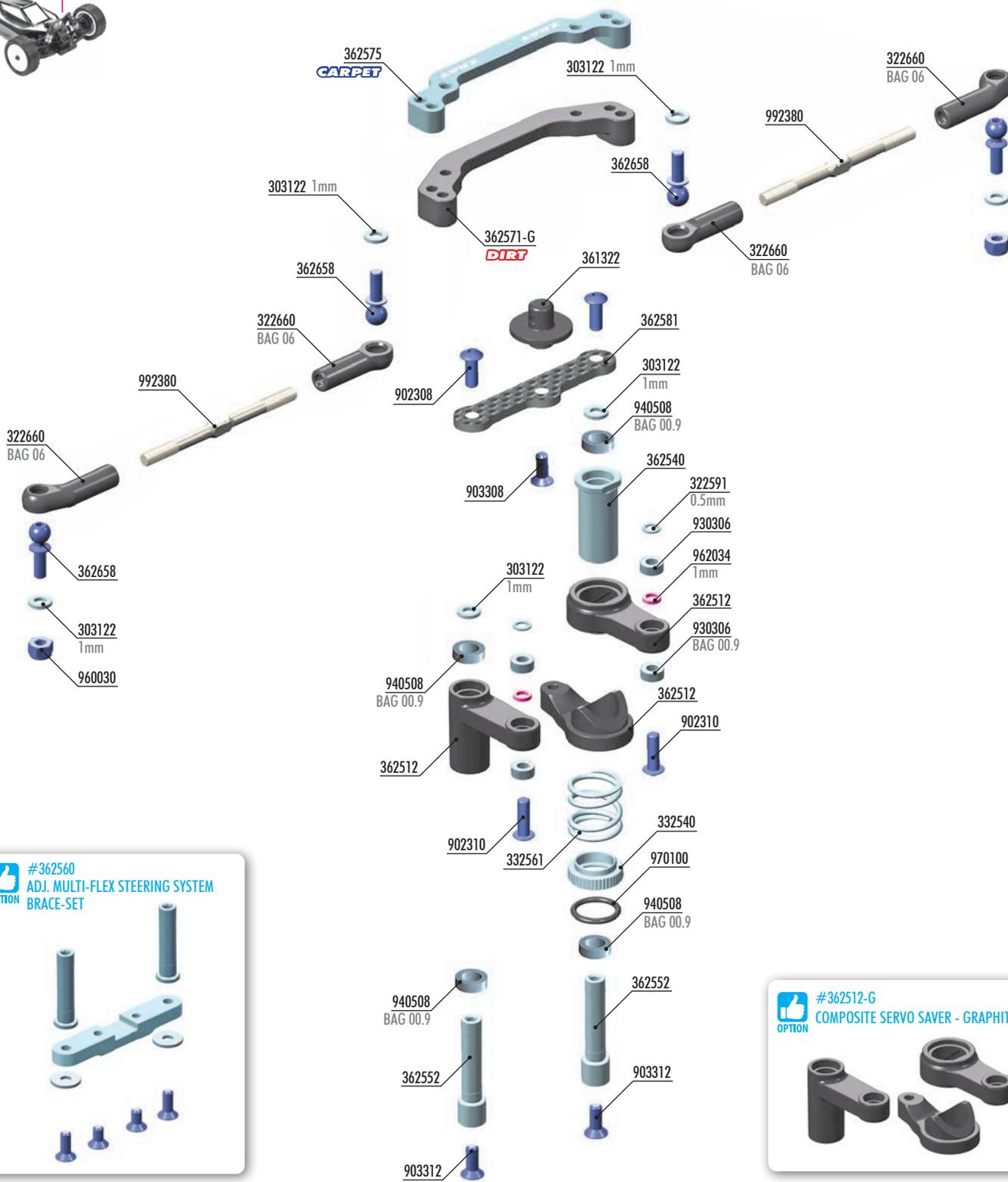
Select the battery mount 1/2/3 position to match the battery pack length.

3x10mm

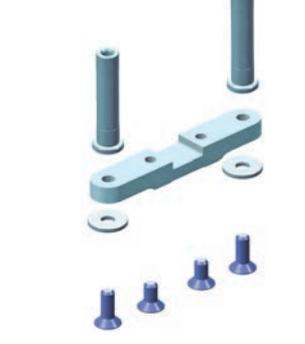
Battery position for **DIRT** INITIAL SETTING

Battery position for **CARPET** INITIAL SETTING





#362560
ADJ. MULTI-FLEX STEERING SYSTEM
BRACE-SET



#362512-G
COMPOSITE SERVO SAVER - GRAPHITE



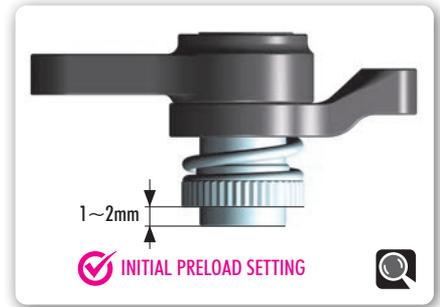
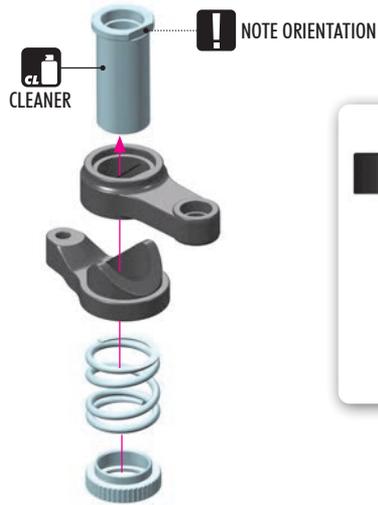
BAG
11

303122	ALU SHIM 3x6x1.0mm (10)	902308	HEX SCREW SH M3x8 (10)
322591	ALU SHIM 3x4.7x0.5mm (10)	902310	HEX SCREW SH M3x10 (10)
322660	COMPOSITE BALL JOINT 5.4mm (12+1+1)	903308	HEX SCREW SFH M3x8 (10)
332540	ALU SERVO SAVER ADJUSTABLE NUT	903312	HEX SCREW SFH M3x12 (10)
332561	SERVO SAVER SPRING C=14	930306	BALL-BEARING 3x6x2.5mm STEEL SEALED - OIL (2)
361322	BODY MOUNT - EXTRA-SHORT	940508	BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
362512	COMPOSITE SERVO SAVER FOR BALL-BEARINGS	960030	NUT M3 (10)
362540	ALU SERVO SAVER MAIN SHAFT	962034	STEEL WASHER S 3x4.7x1 (10)
362552	SERVO SAVER PIVOT SHAFT +5mm (2)	970100	O-RING 10 x 1.5 (10)
362581	CARBON STEERING BRACE		
362658	HARD STEEL BALL END 5.4mm WITH THREAD 8mm - NICKEL COATED (2)		
992380	HUDY TITANIUM ADJUSTABLE TURNBUCKLE 50MM M3.5 L/R (2)		
		CARPET	
		362575	ALU STEERING PLATE 2-H. - 6mm PROFILED SHAPE - SWISS 7075 T6
		DIRT	
		362571-G	COMPOSITE STEERING PLATE - GRAPHITE

Numbers in parentheses () refer to quantities when purchased separately.



1x 970100
O 10x1.5



2x 322591
SHIM 3x4.7x0.5



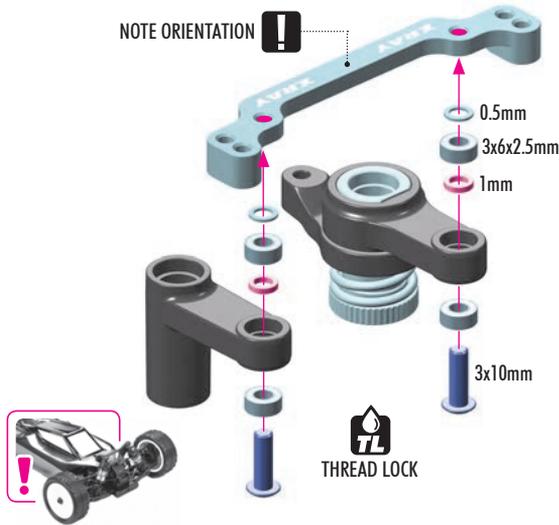
2x 902310
SH M3x10



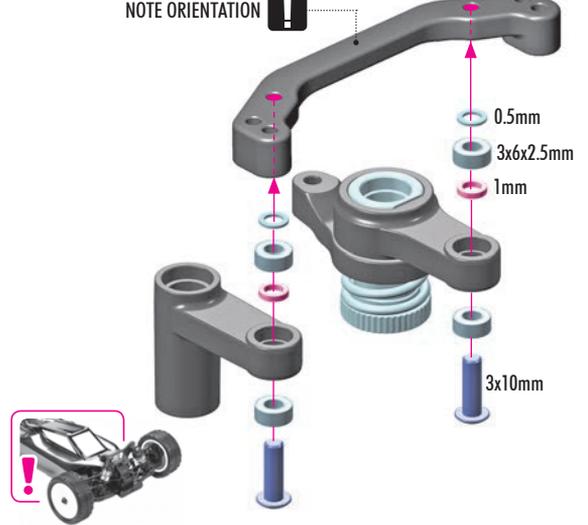
4x 930306
BB 3x6x2.5

2x 962034
S 3x4.7x1

Steps only for **CARPET** Edition



Steps only for **DIRT** Edition



2x 303122
SHIM 3x6x1



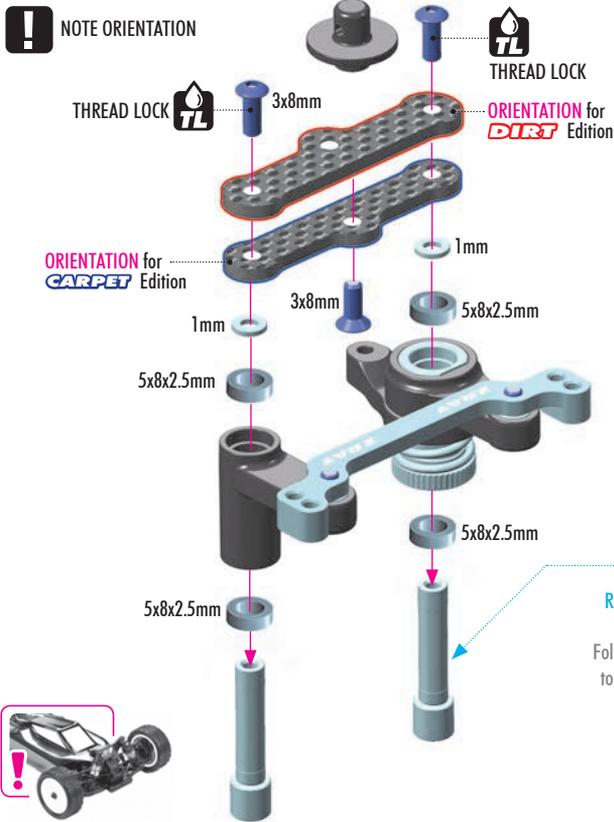
2x 902308
SH M3x8



1x 903308
SFH M3x8



4x 940508
BB 5x8x2.5

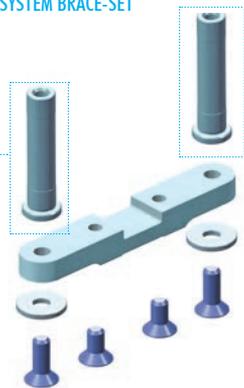


ASSEMBLED VIEW



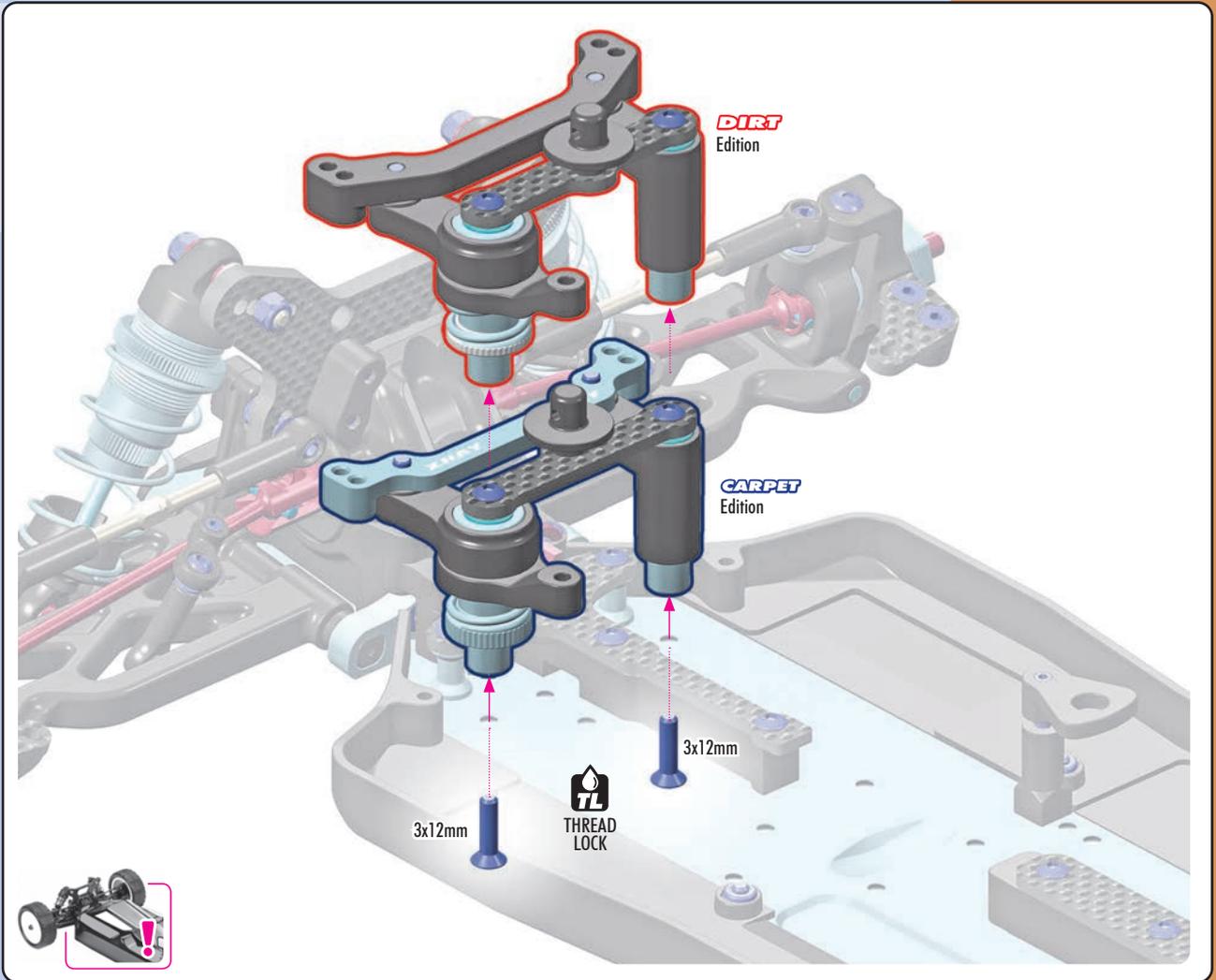
#362560
OPTION ADJUSTABLE MULTI-FLEX STEERING SYSTEM BRACE-SET

Replace Pivot Shafts if you use **OPTION #362560**
Follow assembly steps on page 45 to check multi-flex adjustments.

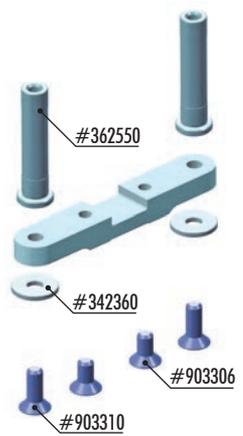




2x 903312 SFH M3x12



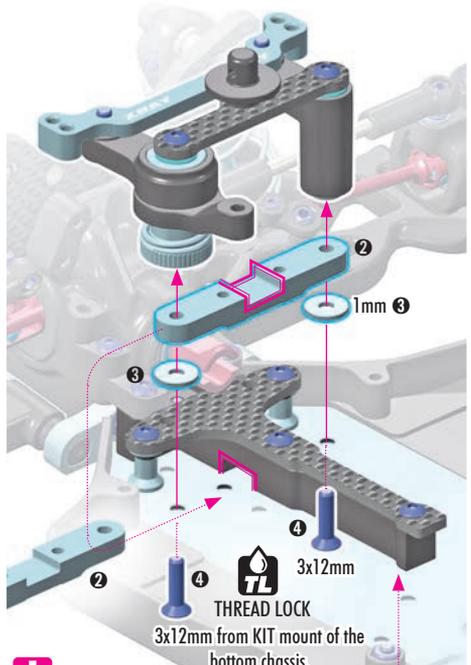
OPTION #362560 ADJUSTABLE MULTI-FLEX STEERING SYSTEM BRACE-SET



The Adjustable Multi-Flex Steering System Brace allows precise adjustment of steering characteristics by changing the mounting position of the servo saver pivot shafts to the chassis.

ALTERNATIVE - FIX

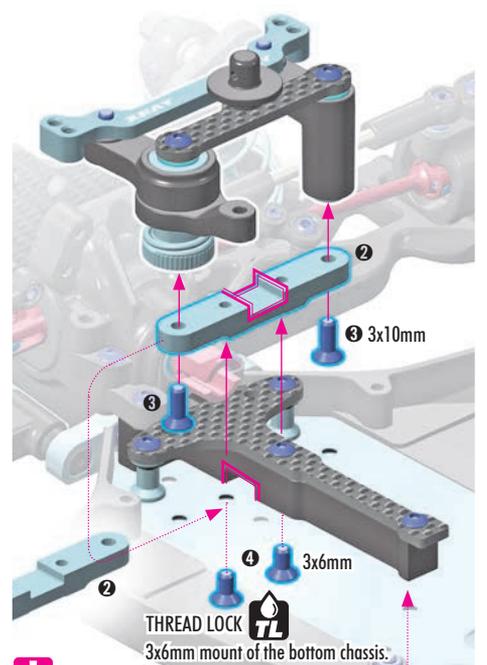
Mounting through the outside holes with shims between the brace and chassis provides greater stability and smoother steering, making the car easier to control.



! 1 Remove all screws from bottom of the chassis that secure the brace and front gearbox. Then insert the adjustable steering brace under the main brace.

ALTERNATIVE - FLEX

Using the center mounting holes, therefore attaching the shafts to the aluminum brace, results in more aggressive steering response.



! 1 Remove all screws from bottom of the chassis that secure the brace and front gearbox. Then insert the adjustable steering brace under the main brace.

2x
L=R

Thread 8mm
Ball ø5.4mm

TIP Install with HUDY Multi Tool.

TIP Install with HUDY Ball Joint Wrench

RIGHT THREAD SIDE LEFT THREAD SIDE

LEFT THREAD RIGHT THREAD

SLOT ORIENTATION

INITIAL SETTING 21mm

INITIAL SETTING 21mm

- 4x 303122 SHIM 3x6x1
- 2x 960030 N M3

2x L=R LEFT = RIGHT

DIRT Edition

1mm

1mm

1mm

M3

Ball joint NOTE ORIENTATION

ASSEMBLY VIEW

CARPET Edition

CHECK FOR FREE MOVEMENT

CHECK FOR FREE MOVEMENT

INITIAL SETTING

DIRT

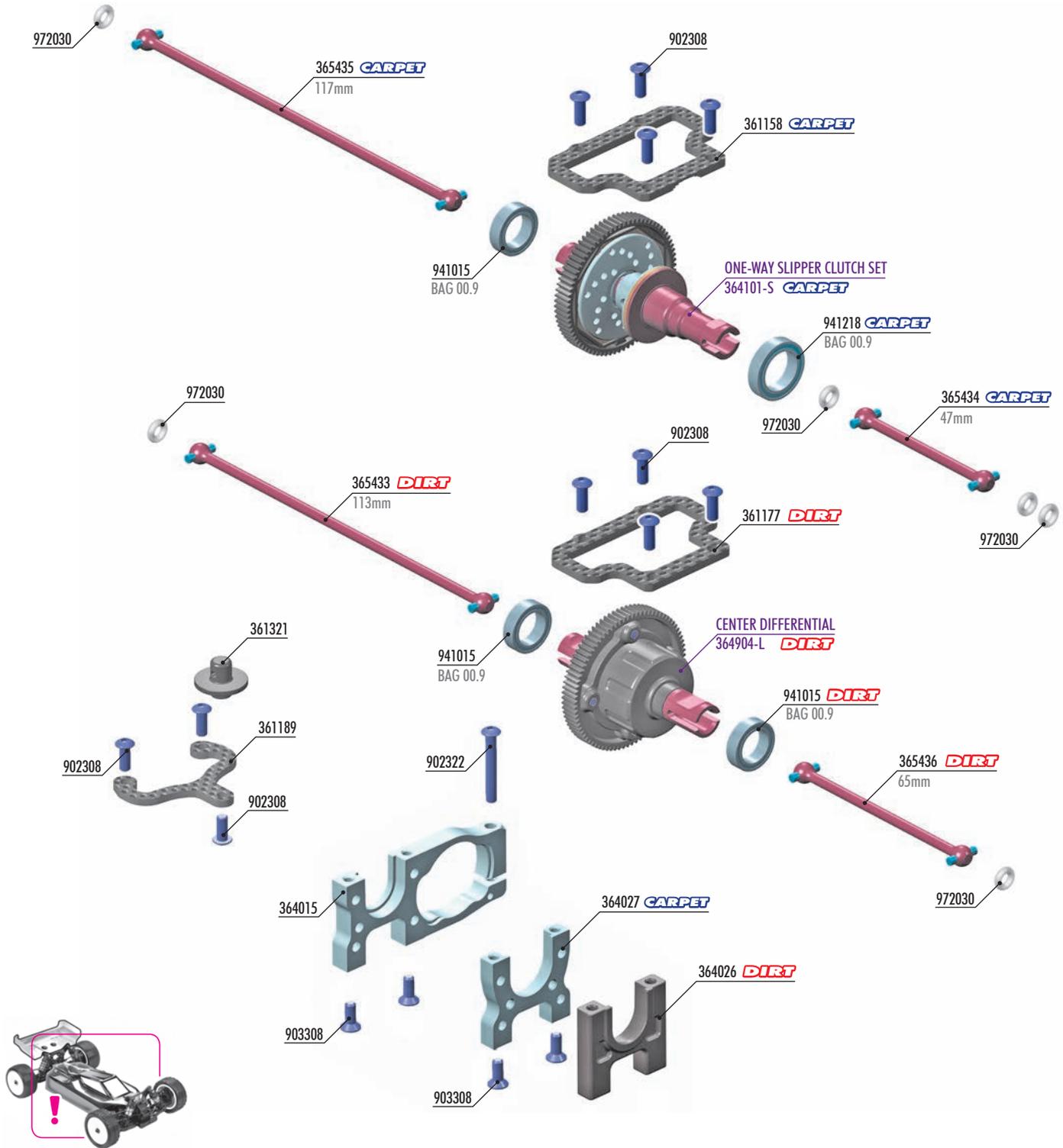
INITIAL SETTING

XRAY XRAY

CARPET

COMPATIBILITY 

Please note that all center transmission components are interchangeable between the Carpet and DIRT versions, but this is only applicable when the entire center transmission assembly is replaced.



BAG
12

- 361189 CARBON REAR BODY POST HOLDER
- 361321 BODY MOUNT - SHORT + SHIMS - SET
- 364015 ALU MOTOR BULKHEAD - EXTRA LOW
- 902308 HEX SCREW SH M3x8 (10)
- 902322 HEX SCREW SH M3x22 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 941015 BALL-BEARING 10x15x4 RUBBER SEALED - OIL (2)
- 972030 SILICONE O-RING 3x2 (10)

CARPET

- 361158 CARBON CENTER SLIPPER UPPER DECK - EXTRA LOW BULKHEAD
- 364027 ALU CENTER SLIPPER BULKHEAD - EXTRA LOW - SWISS 7075 T6
- 365434 CENTER DOGBONE DRIVE SHAFT 47mm - HUDY SPRING STEEL™
- 365435 CENTER DOGBONE DRIVE SHAFT 117mm - HUDY SPRING STEEL™
- 364101-S ONE-WAY SLIPPER CLUTCH SET - LIGHTWEIGHT & SHORT

DIRT

- 361177 CARBON CENTER DIFFERENTIAL UPPER DECK - EXTRA LOW BULKHEAD
- 364026 COMPOSITE CENTER DIFFERENTIAL BULKHEAD - EXTRA LOW
- 365433 CENTER DOGBONE DRIVE SHAFT 113mm - HUDY SPRING STEEL™
- 365436 CENTER DOGBONE DRIVE SHAFT 65mm - HUDY SPRING STEEL™
- 941218 BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2)
- 364904-L GEAR CENTER DIFFERENTIAL - LIGHTWEIGHT - SET

Numbers in parentheses () refer to quantities when purchased separately.

1x 902322 SH M3x22
4x 903308 SFH M3x8

3x22mm TIGHTEN GENTLY

NOTE ORIENTATION

3x8mm 3x8mm

THREAD LOCK All screws

Steps only for **CARPET** Edition

1x 902322 SH M3x22
4x 903308 SFH M3x8

3x22mm TIGHTEN GENTLY

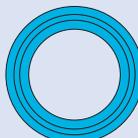
NOTE ORIENTATION

3x8mm 3x8mm

THREAD LOCK All screws

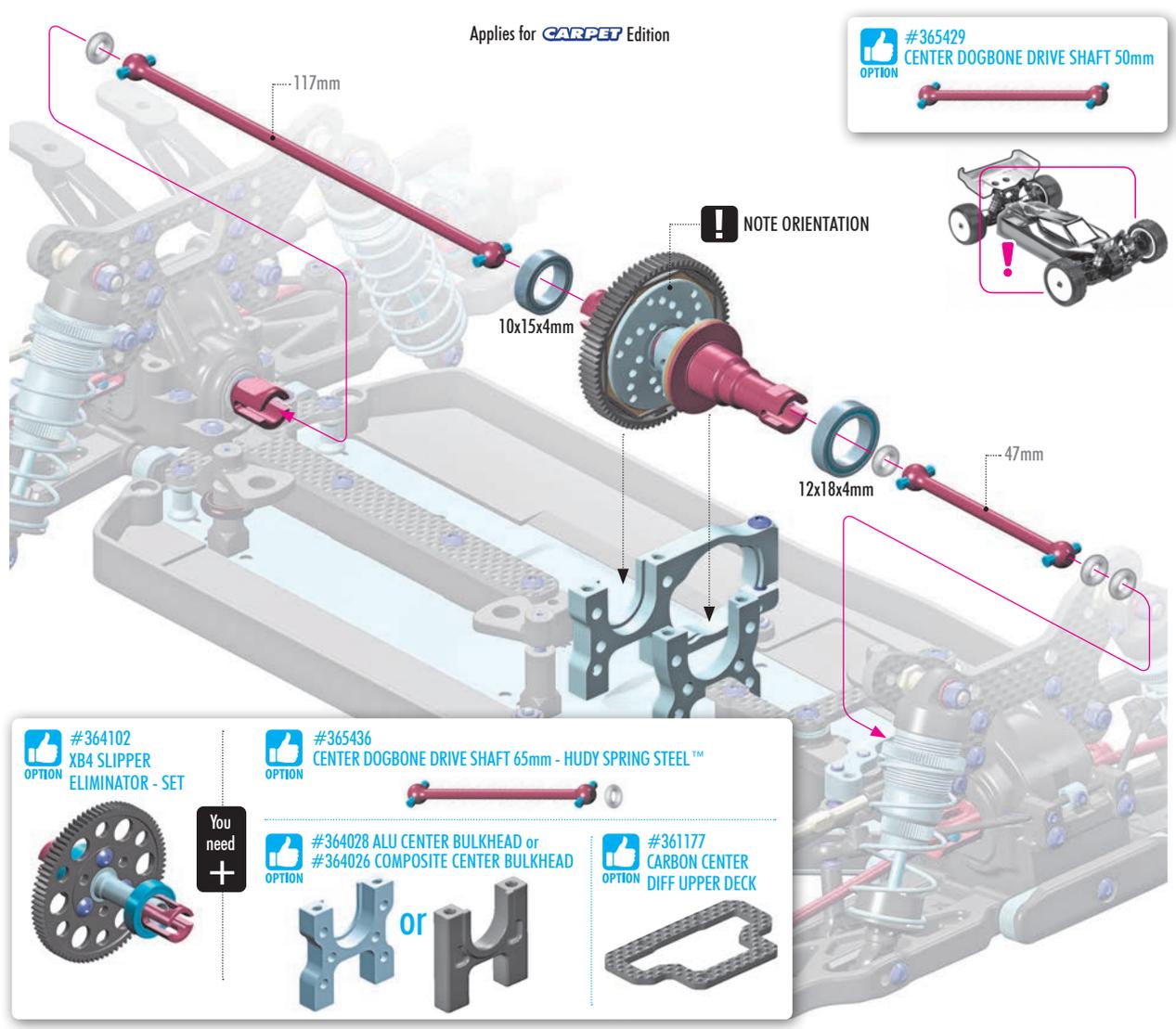
Steps only for **DIRT** Edition

#364028
ALU CENTER BULKHEAD
OPTION

-  1x 941015
BB 10x15x4
-  1x 941218
BB 12x18x4
-  4x 972030
O 3x2

Applies for **CARPET** Edition

 #365429
CENTER DOGBONE DRIVE SHAFT 50mm



 #364102
XB4 SLIPPER
ELIMINATOR - SET



 #365436
CENTER DOGBONE DRIVE SHAFT 65mm - HUDY SPRING STEEL™



 #361177
CARBON CENTER
DIFF UPPER DECK



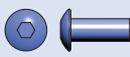
You need 

 #364028 ALU CENTER BULKHEAD or
#364026 COMPOSITE CENTER BULKHEAD

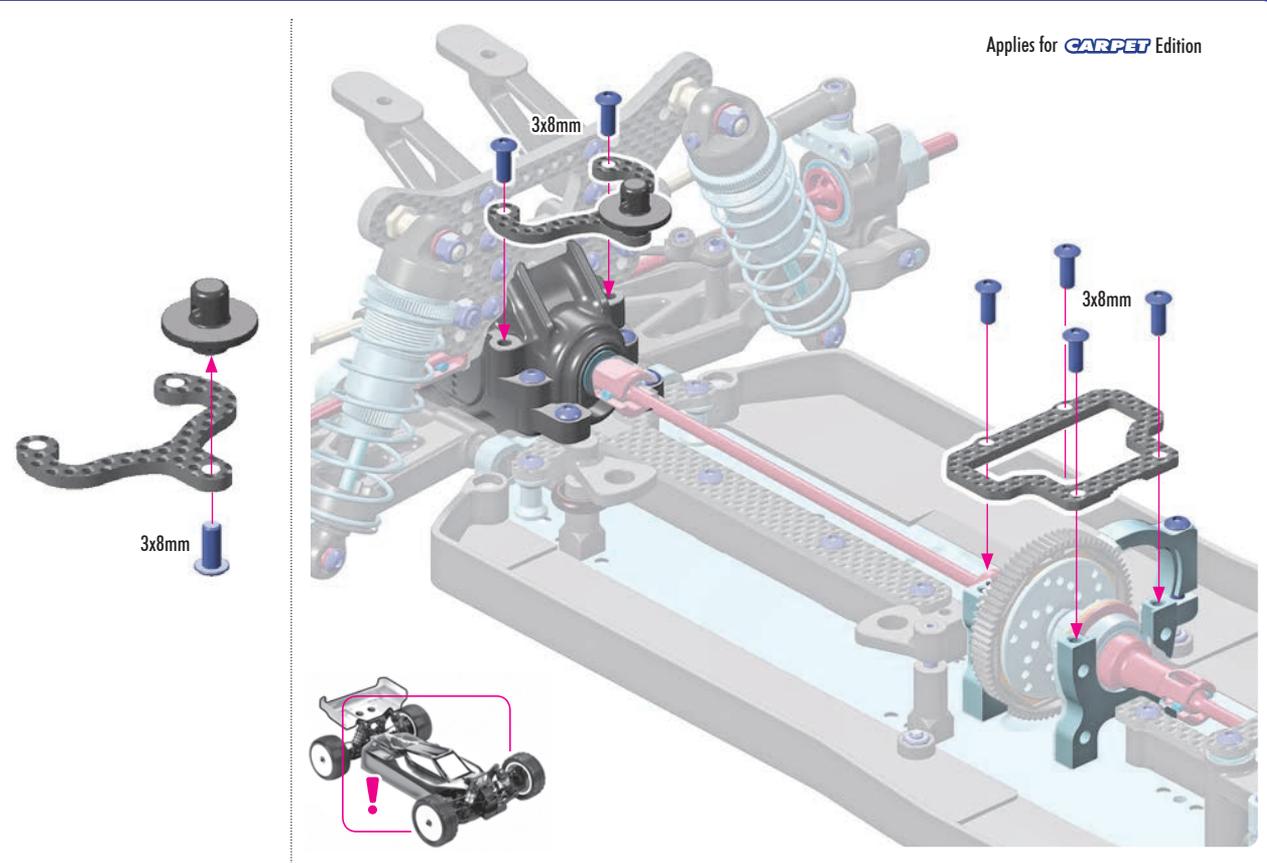


 #361177
CARBON CENTER
DIFF UPPER DECK



-  7x 902308
SH M3x8

Applies for **CARPET** Edition



Applies for **CARPET** Edition

TIP CENTER SLIPPER CLUTCH ADJUSTMENT

! 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.

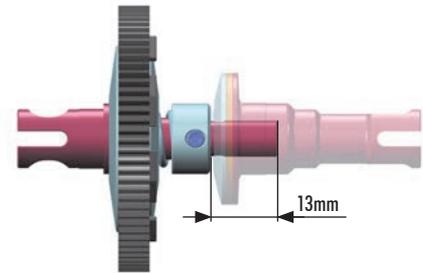
The Slipper Clutch can be adjusted by loosening the set-screw and then, while keeping the tool in the set-screw to prevent movement of the collar, rotating the spur gear by hand as indicated in the drawing.

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



ONE-WAY SLIPPER CLUTCH ADJUSTMENT

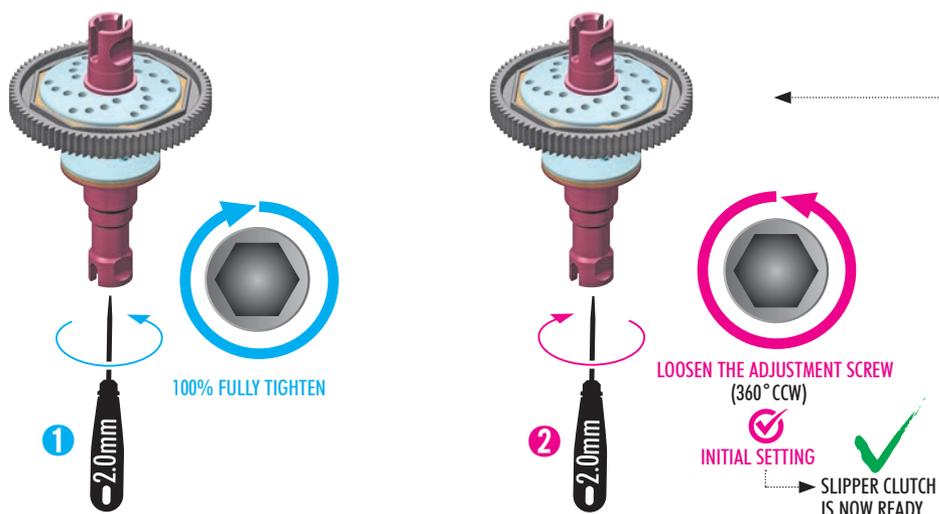
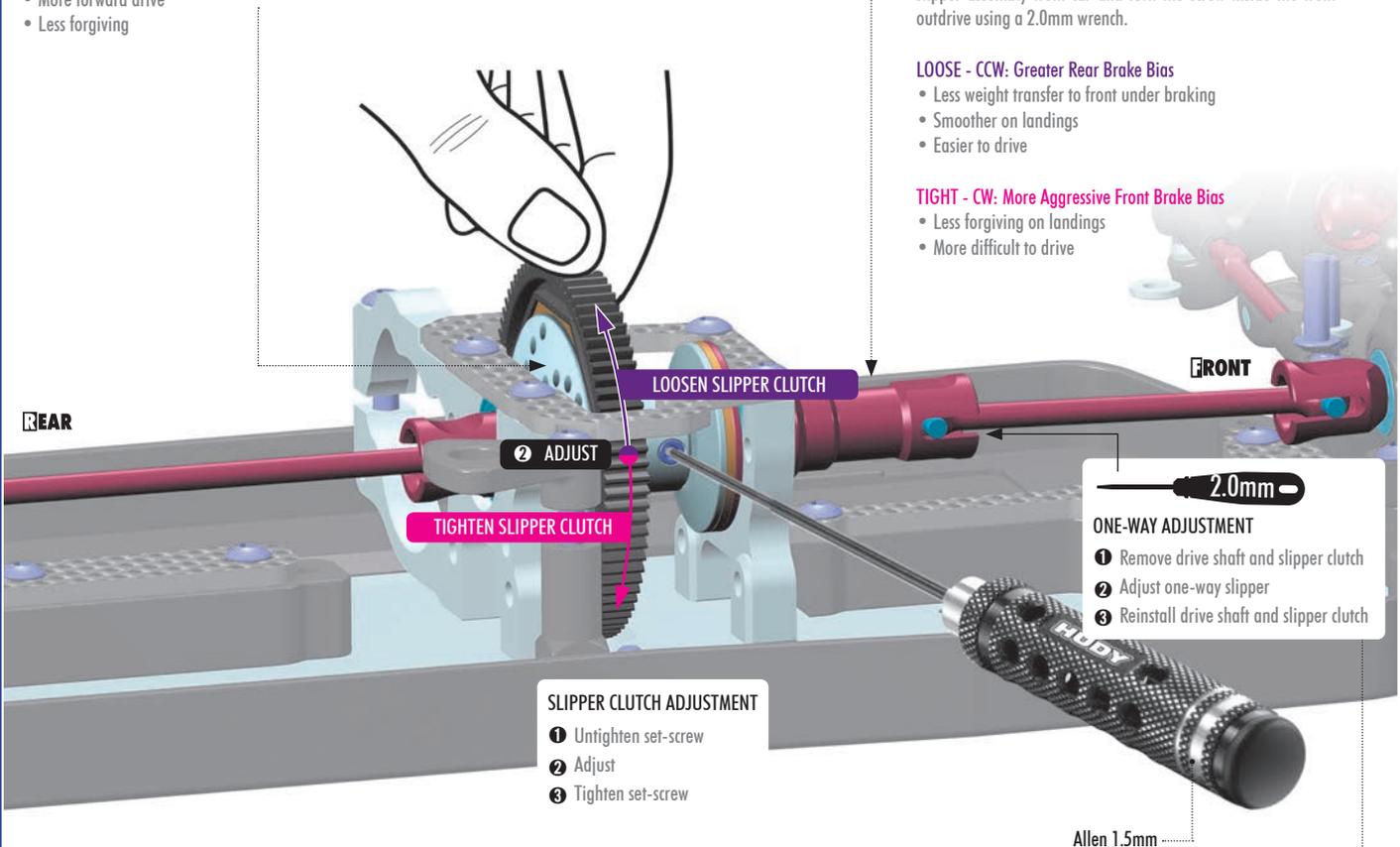
For adjusting the front one-way slipper clutch, remove the slipper assembly from car and turn the screw inside the front outdrive using a 2.0mm wrench.

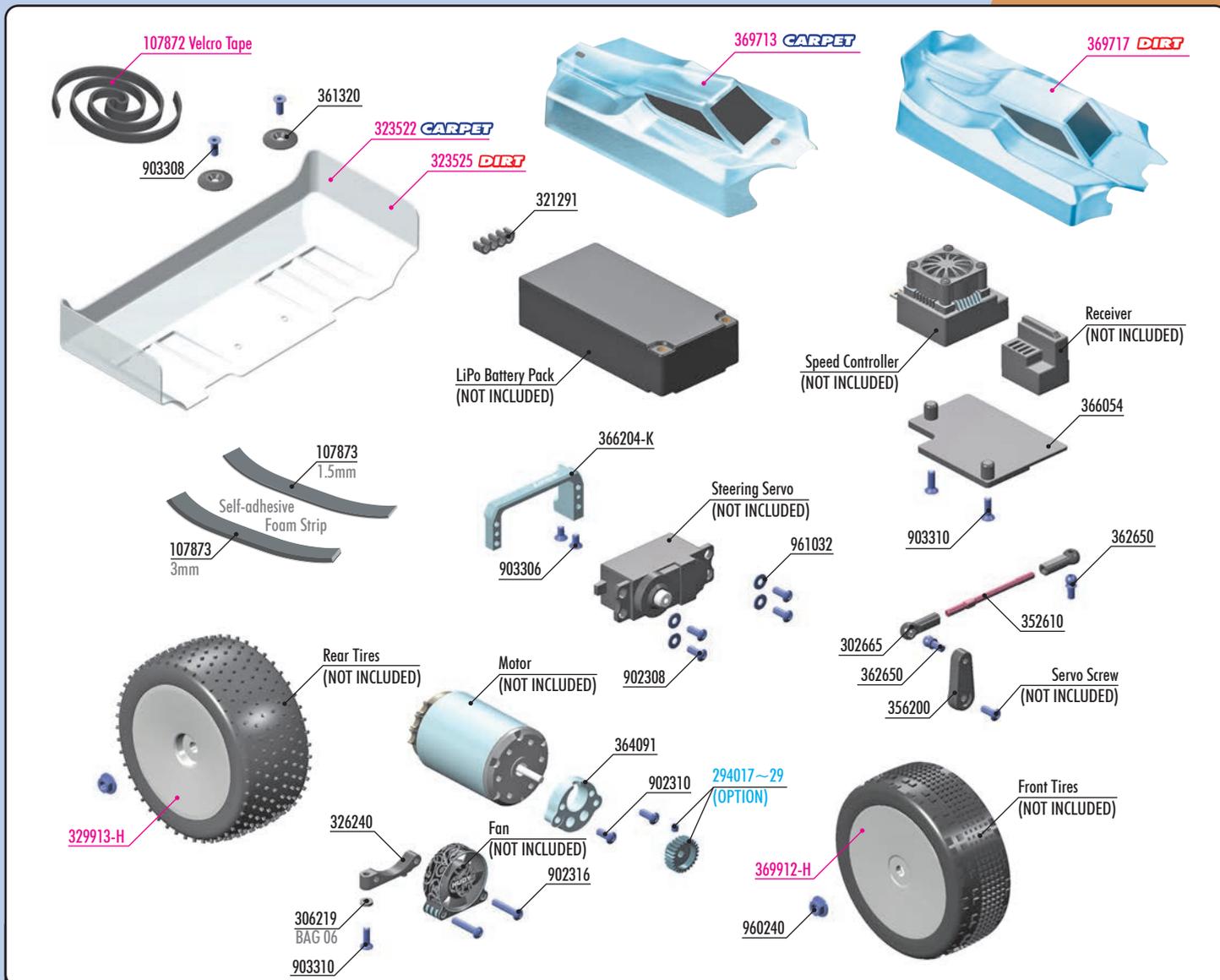
LOOSE - CCW: Greater Rear Brake Bias

- 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





BAG

13

294017~365729 PINION GEAR HARDCOATED 17~38T/48P (OPTION)

- 107873 HUDY BUMPER & BODY SPACE SPONGE SET
- 302665 COMPOSITE BALL JOINT 4.9mm - CLOSED WITH HOLE (4)
- 306219 COMPOSITE SET OF SERVO SHIMS (4)
- 321291 COMPOSITE 5-WIRES HOLDER - SET
- 326240 COMPOSITE FAN HOLDER
- 352610 ADJ. TURNBUCKLE M3 L/R 45mm - 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)
- 364091 ALU ECCENTRIC INSERT FOR NARROW MOTOR BULKHEAD
- 366054 COMPOSITE RADIO PLATE - SHORT
- 366204-K ALU MONOBLOCK SERVO HOLDER - SWISS 7075 T6
- 902308 HEX SCREW SH M3x8 (10)
- 902310 HEX SCREW SH M3x10 (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)
- 961032 WASHER S 3.2 (10)
- 960240 NUT M4 WITH SERRATED FLANGE (10)

CARPET

- 323522 LEXAN REAR WING - LUSH
- 369713 BODY FOR 1/10 4WD OFF-ROAD BUGGY - DELTA 4C - LIGHT

DIRT

- 323525 LEXAN REAR WING - LUSH - WIDE
- 369717 BODY FOR 1/10 4WD OFF-ROAD BUGGY - EPSILON 4D - LIGHT

- 107872 VELCRO TAPE WITH DOUBLE SIDED TAPE 8x500mm
- 329913-H REAR WHEEL AERODISK WITH 12mm HEX IFMAR - WHITE - HARD (2)
- 369912-H FRONT WHEEL AERODISK WITH 12mm HEX IFMAR - WHITE - HARD (2)

Included only in
CARPET
Edition



BAG

13.1

XB4 FINAL SHOCK ASSEMBLY SET CARPET

- 322051 COMPOSITE FRONT SHOCK TOWER INSERT (2)
- 363519 LEXAN FRONT WING

- 902255 HEX SCREW SH M2.5x5 (10)
- 961025 WASHER S 2.5 (10)

Numbers in parentheses () refer to quantities when purchased separately.

SERVO LINK
Adjust servo link to fit your servo.

TIP Install with HUDY Ball Joint Wrench

TIP Install with HUDY Multi Tool.

Ball ø4.9mm
6mm Thread

Ball ø4.9mm
6mm Thread

OPTION #99006 6mm Thread

OPTION #992345 HUDY Adjustable Turnbuckle 45mm M3 L/R - Titanium (2)

4x 902308 SH M3x8

4x 961032 SHIM S 3.2

Servo (NOT INCLUDED)

NOTE ORIENTATION

0.5mm

3x8mm

Steel Servo shims

3x8mm

Servo screw (NOT INCLUDED)

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

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

USE APPROPRIATE SERVO ARM:

K (23T) H (24T) F (25T)

2x 903306 SFH M3x6

THREAD LOCK 7L 3x6mm



2x 902310
SH M3x10

Motor (NOT INCLUDED)

NOTE ORIENTATION

3x10mm

Pinion & Set screw (NOT INCLUDED)

Loosen the screw. 1

2 Insert motor into the bulkhead.

PINIONS (48P)		
#294017	17T	
#294018	18T	
#294019	19T	
#294020	20T	
#294021	21T	
#294022	22T	
#294023	23T	
#294024	24T	
#294025	25T	
#294026	26T	
#365727	27T	
#365728	28T	
#365729	29T	

RECOMMENDED INITIAL COMBINATIONS			
Motor	Spur	Pinion	Ratio
4.5T	78T	17T	11.47
5.5T	78T	18T	10.83
6.5T	78T	19T	10.26
7.5T	78T	20T	9.75
8.5T	78T	21T	9.28
10.5T	72T	24T	7.50
13.5T	72T	25T	7.20

GEAR RATIO Final Drive Ratio

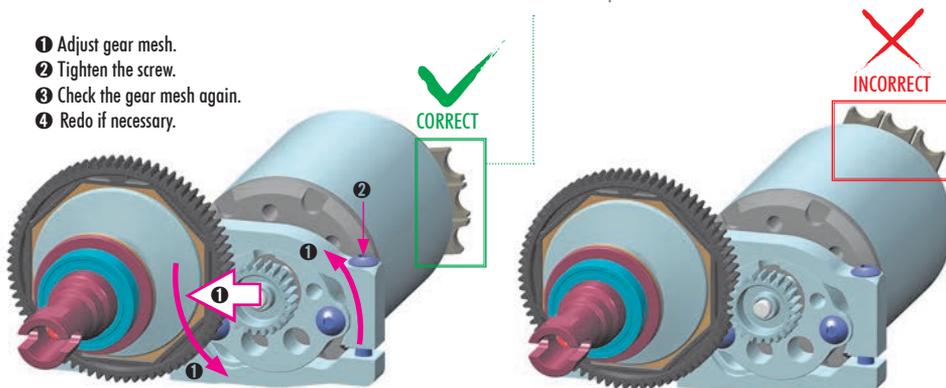
$81 : X \times 2.5 = \text{FDR}$

(Spur) (Pinion) (IGR)

GEAR MESH

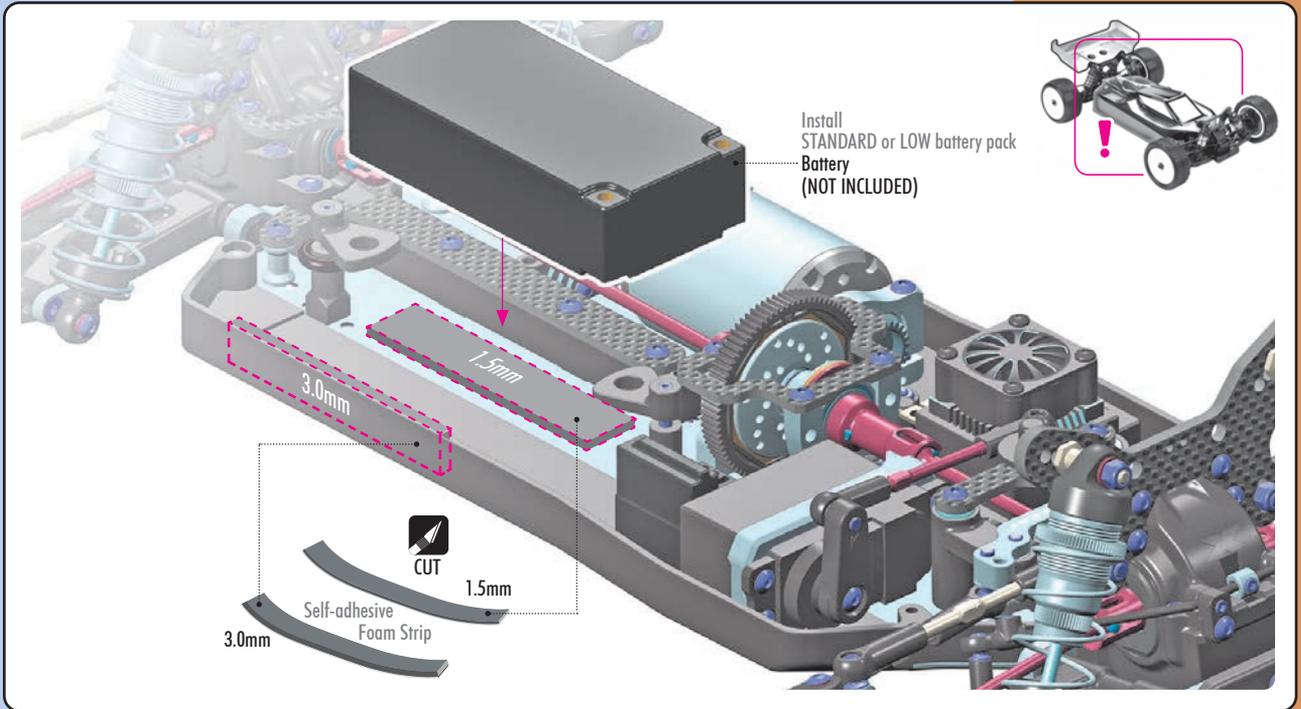
Note orientation of the motor soldering tabs to install cables as low as possible.

- 1 Adjust gear mesh.
- 2 Tighten the screw.
- 3 Check the gear mesh again.
- 4 Redo if necessary.

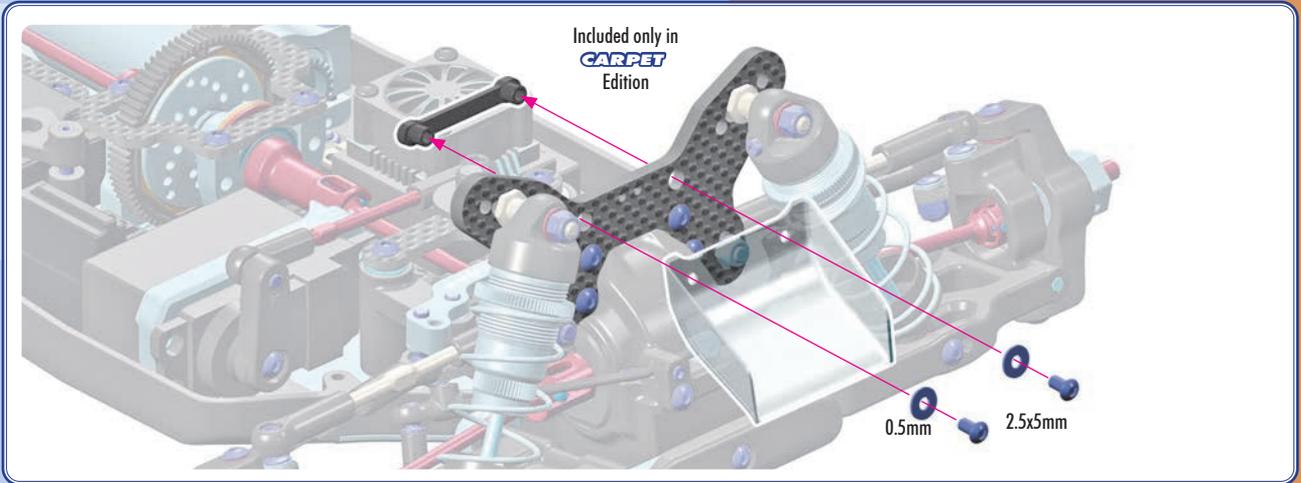


Adjust the motor so the pinion meshes with the spur gear properly. Make sure the gear mesh is not too tight.

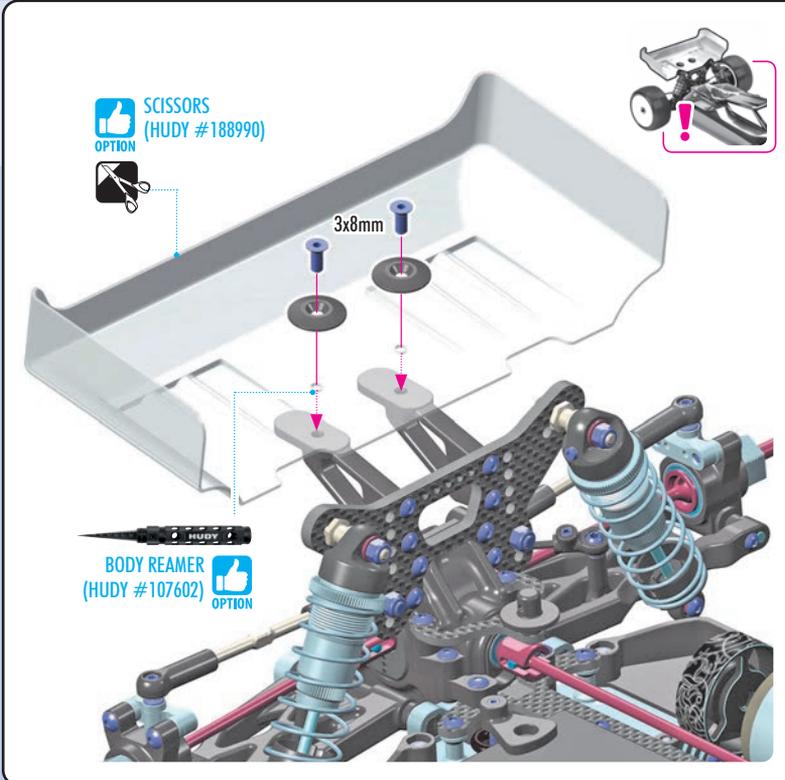
There should be a small amount of play between the teeth of the pinion gear and the spur gear.



- 2x 961025 S 2.5
- 2x 902255 SH M2.5x5



- 2x 903308 SFH M3x8



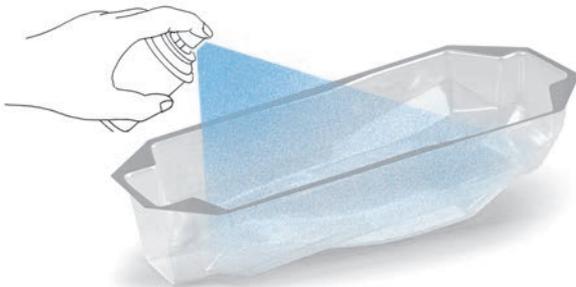
- #323560 CARBON REAR WING SHIM OPTION

XRAY LEXAN REAR WINGS			
#323510	1.0mm	OPTION	
#323511	1.5mm	OPTION	
#323513	1.0mm	RANK	OPTION
#323517	1.0mm	TEC	OPTION
#323522	Std.	LUSH	INCLUDED
#323523	Thick	LUSH	OPTION
#323525	Std.	LUSH WIDE	INCLUDED
#323526	Thick	LUSH WIDE	OPTION
#363510	1.0mm	OPTION	
#363511	1.5mm	OPTION	
#363512	2.0mm	OPTION	
XRAY LEXAN CENTER FIN			
#323515	1.0mm	ZAP	OPTION

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

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

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

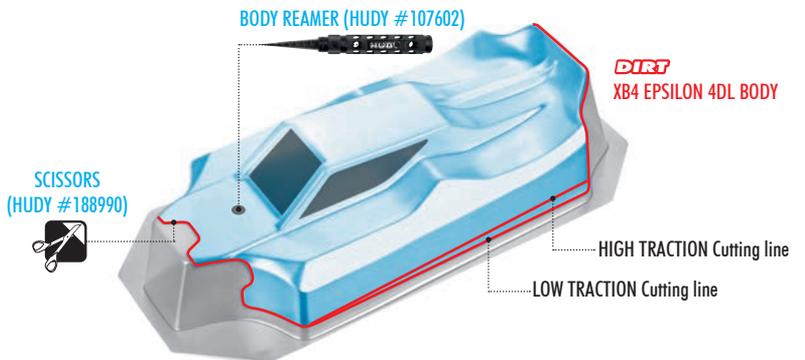
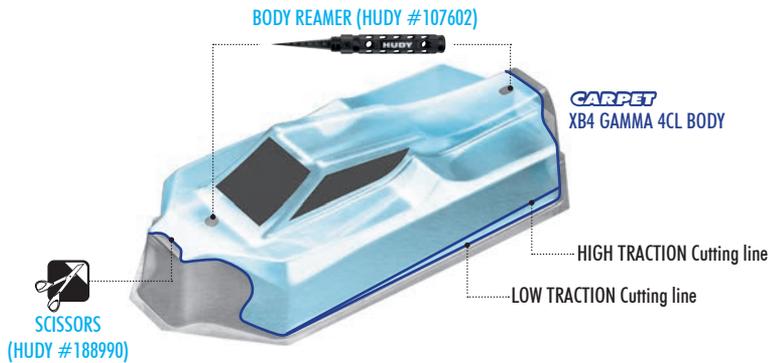


XRAY LEXAN BODY

#369712	THICK	DELTA 4C	OPTION
#369713	THIN	DELTA 4CL	INCLUDED
#369714	THICK	DELTA 4D	OPTION
#369715	THIN	DELTA 4DL	OPTION
#369716	THICK	EPSILON 4D	OPTION
#369717	THIN	EPSILON 4DL	INCLUDED

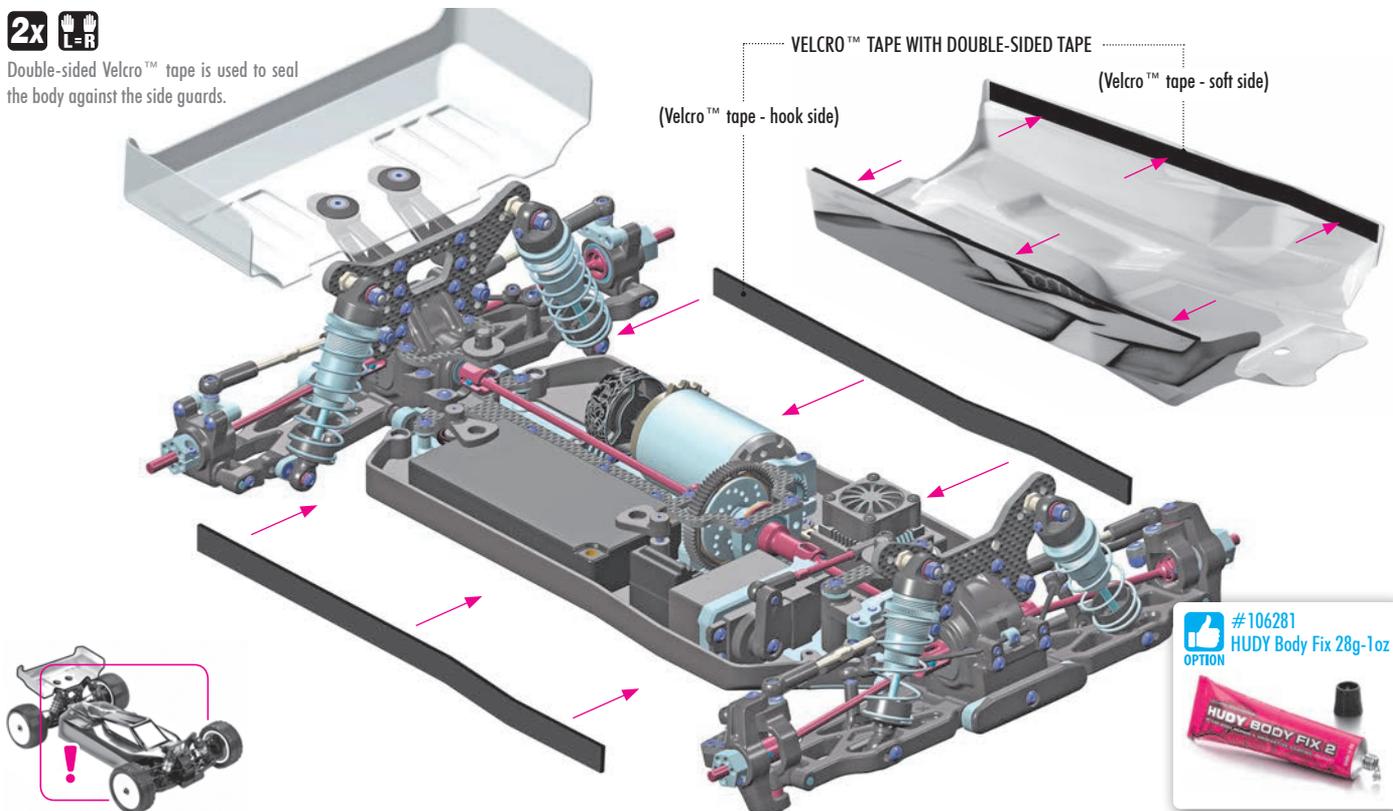


#209240
HUDY BODY POST HOLE PROTECTOR VINYL STICKER 7x16x0.5mm (8)



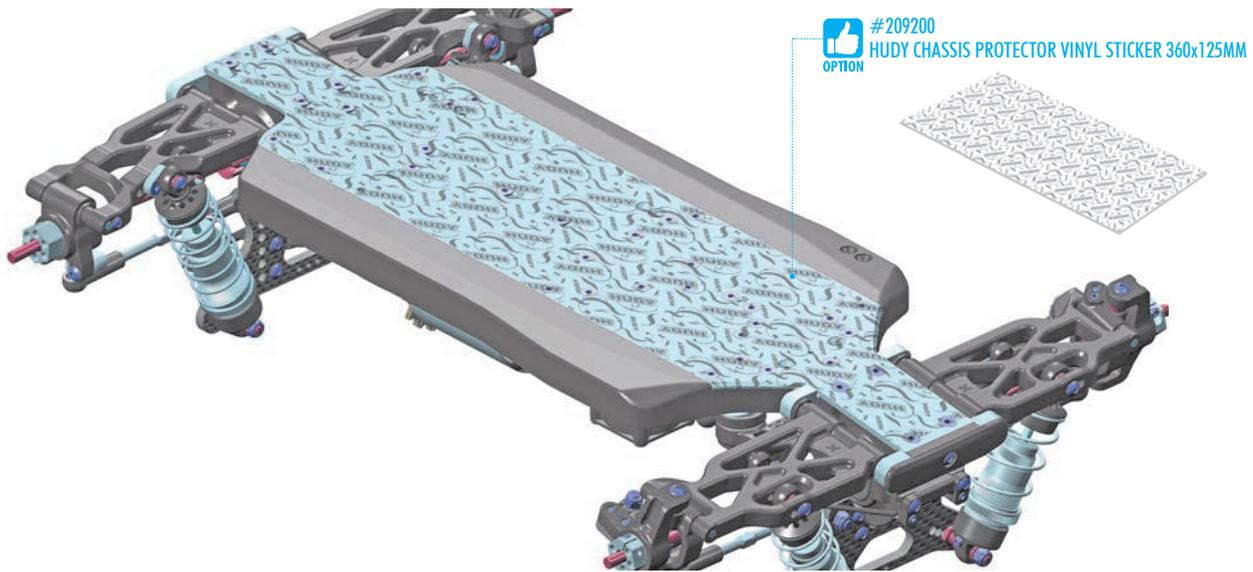
2x 

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



#106281
HUDY Body Fix 28g-1oz
OPTION

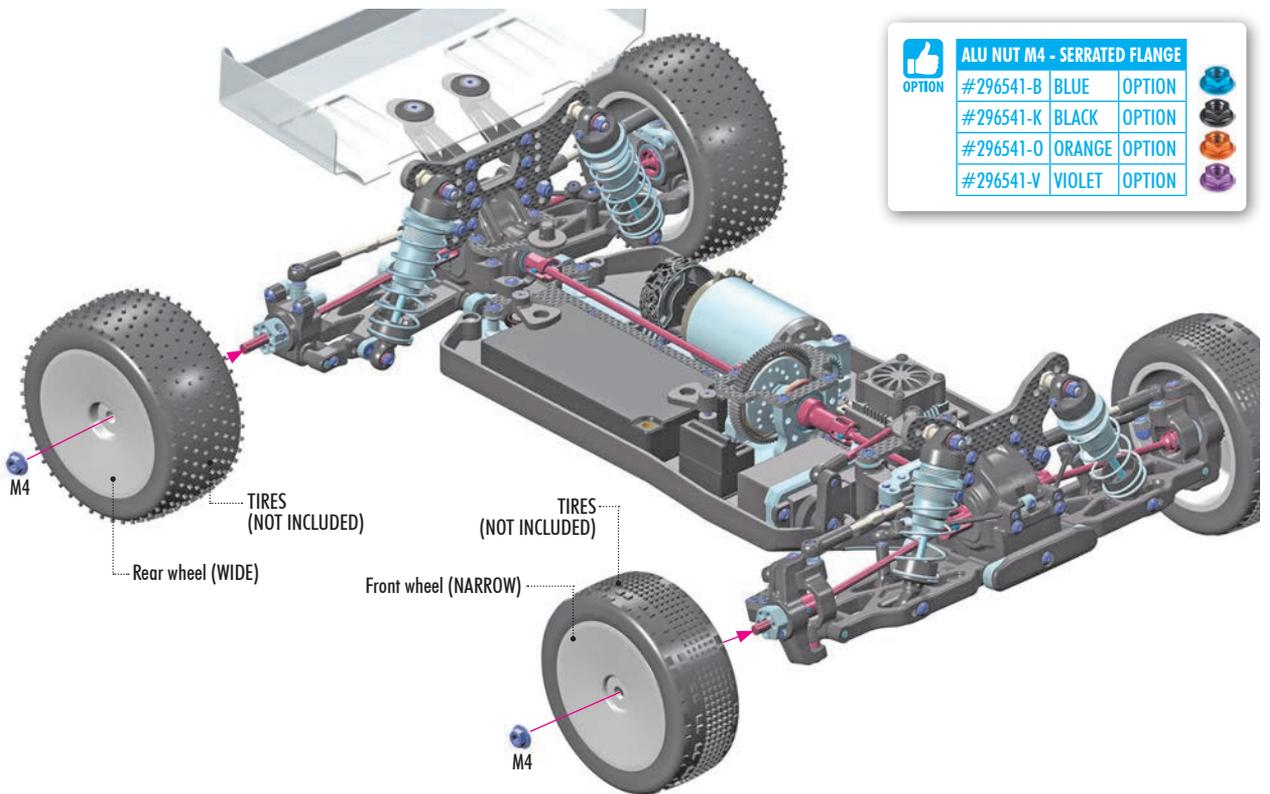




#209200
HUDY CHASSIS PROTECTOR VINYL STICKER 360x125MM
OPTION



4x 960240
N M4



ALU NUT M4 - SERRATED FLANGE
OPTION

#296541-B	BLUE	OPTION
#296541-K	BLACK	OPTION
#296541-O	ORANGE	OPTION
#296541-V	VIOLET	OPTION

XRAY FRONT AERODISK WHEELS 12mm

#369902-H	HARD	WHITE	10pcs	OPTION
#369902-Y	HARD	YELLOW	10pcs	OPTION
#369912-H	HARD	WHITE	2pcs	INCLUDED
#369912-Y	HARD	YELLOW	2pcs	OPTION



XRAY REAR AERODISK WHEELS 12mm

#329901-H	HARD	WHITE	10pcs	OPTION
#329901-Y	HARD	YELLOW	10pcs	OPTION
#329913-H	HARD	WHITE	2pcs	INCLUDED
#329913-Y	HARD	YELLOW	2pcs	OPTION



HUDY FRONT AERODISK WHEELS

803230	HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT WHITE (2)
803230-G	HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT GREEN (2)
803230-O	HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT ORANGE (2)
803230-Y	HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT YELLOW (2)
803231	HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT WHITE (10)
803231-G	HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT GREEN (10)
803231-O	HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT ORANGE (10)
803231-Y	HUDY 1/10 OFF-ROAD WHEEL - 4WD FRONT YELLOW (10)

HUDY REAR AERODISK WHEELS

803240	HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR WHITE (2)
803240-G	HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR GREEN (2)
803240-O	HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR ORANGE (2)
803240-Y	HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR YELLOW (2)
803241	HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR WHITE (10)
803241-G	HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR GREEN (10)
803241-O	HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR ORANGE (10)
803241-Y	HUDY 1/10 OFF-ROAD WHEEL - 2WD/4WD REAR YELLOW (10)

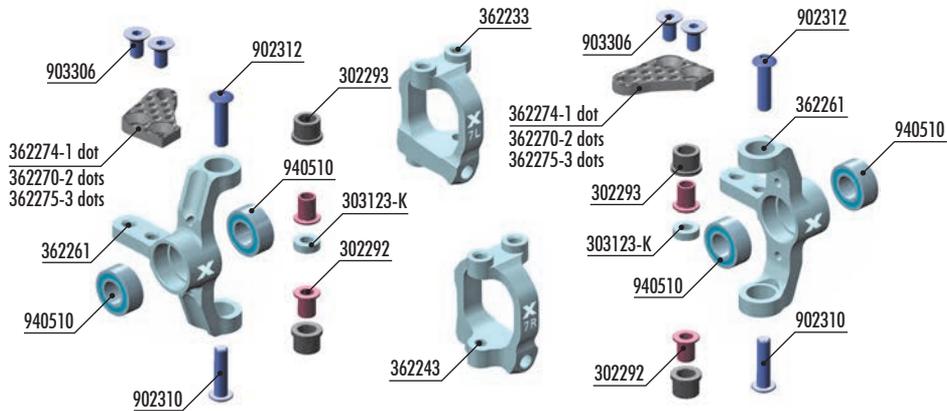
XRAY TUNING PARTS - ASSEMBLY DETAILS

(NOT INCLUDED)



#360901

ALU STEERING BLOCKS & 7° C-HUBS - SET



- 302292 STEEL STEERING BUSHING LONG (4)
- 302293 C-HUB BUSHING COMPOSITE - V2 (4)
- 303123-K ALU SHIM 3x6x2.0mm - BLACK (10)
- 362233 ALU C-HUB 7° RIGHT - SWISS 7075 T6
- 362243 ALU C-HUB 7° LEFT - SWISS 7075 T6
- 362270 GRAPHITE EXTENSION FOR ALU STEERING BLOCK (L+R) - 1 DOT
- 362274 GRAPHITE EXTENSION FOR ALU STEERING BLOCK (L+R) - 2 DOTS

- 362275 GRAPHITE EXTENSION FOR ALU STEERING BLOCK (L+R) - 3 DOTS
- 362261 ALU STEERING BLOCK - SWISS 7075 T6
- 902310 HEX SCREW SH M3x10 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 903306 HEX SCREW SFH M3x6 (10)
- 940510 BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2)



2x 303123-K SHIM 3x6x2



2x 902310 SH M3x10



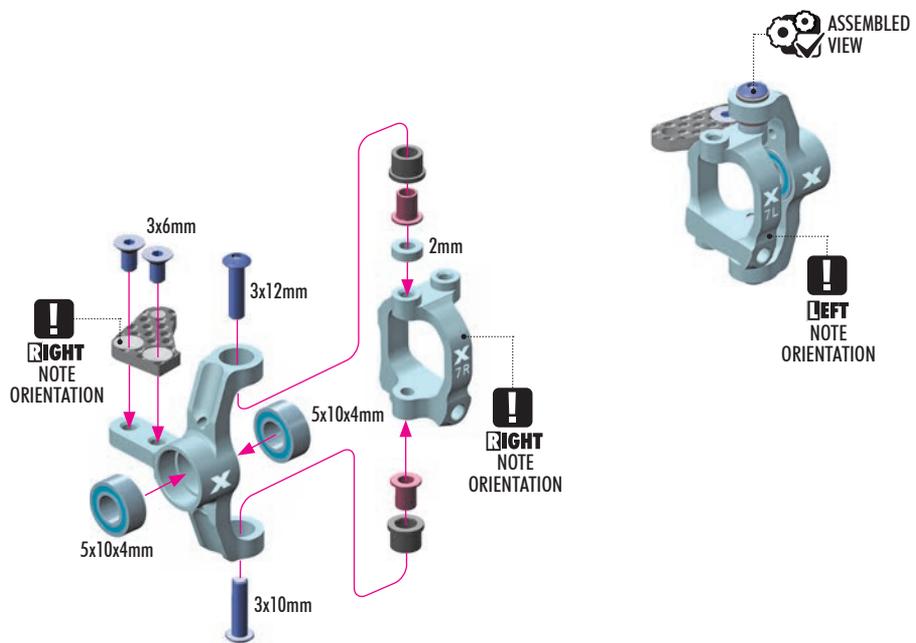
2x 902312 SH M3x12



4x 903306 SFH M3x6

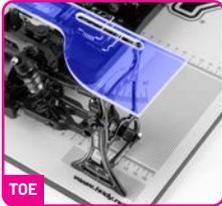


4x 940510 BB 5x10x4

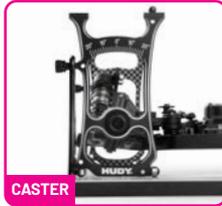


HUDY SET-UP TOOL & ACCESSORIES

(NOT INCLUDED)



TOE



CASTER



FRONT & REAR CAMBER



WHEEL NUTS INCLUDED



SET-UP BOOK



STEERING



CARRYING BOX & FOAM INSERTS



ASSEMBLY NUTS INCLUDED

#108901

HUDY Set-Up Station for 1/10 Off-road

- Precision track-width change
- Must-have set-up tool for a complete suspension geometry adjustment
- Quick and straight-forward "one screw" assembly/disassembly
- Backlash-free, wobble-free mounting
- Fully ball-bearing equipped set-up stands (12 high-precision ball-bearings)
- Ultra-smooth, ultra-precise movement and operation

- CNC-machined from high-grade premium Swiss 7075 T6 aluminum
- CNC-machined upside measure plate form tough acrylic plastic
- All components have precision engraving for instant & reliable readings
- Carrying box with foam inserts for safe storage & transportation
- High-quality, super precision & long life
- Industry standard for set-up tools since 1992



SET-UP TUNING



STRENGTH



STYLE



PERFORMANCE



WEIGHT SAVING



#293404 (23T)

#293405 (24T)

#293406 (25T)

Alu Clamp Steering Servo Horn

- Increase reliability & strength
- Clamp design
- Easy to access set screw from top
- Maximum steering control
- Drilled & tapped for 3mm linkage
- Zero flex
- Black coated
- Premium Swiss 7075 T6 aluminum



SET-UP TUNING



STRENGTH



STYLE



PERFORMANCE



WEIGHT SAVING



#104004

HUDY Air Vac - Vacuum Pump 1/10 Off-Road - V2

- Removes air from shock absorbers & diffs in seconds
- Ultra compact & handy design
- Includes holders for shock absorbers & differential
- Included 600mm connecting cable with gold-plated banana plugs
- Premium hard case for safe storage & transport



SET-UP TUNING



STRENGTH



STYLE



PERFORMANCE



WEIGHT SAVING



HUDY Titanium Super-Low Head Screw - Centering Diameter

- Titanium material
- Super lightweight
- Centering Diameter on Super-Low Head Screws
- Ultra-precise
- Long life
- High durability
- Made by HUDY
- Made in Europe

OTHER VARIANTS:

Part number	Length	Pcs	Image
#908305-T	5mm	10	
#908306-T	6mm	10	
#908308-T	8mm	10	
#908310-T	10mm	10	
#908312-T	12mm	10	
#908314-T	14mm	4	
#908316-T	16mm	4	
#908318-T	18mm	4	
#908320-T	20mm	4	
#908322-T	22mm	4	
#908325-T	25mm	4	



HUDY Titanium Flat Head Screw

OTHER VARIANTS:

Part number	Length	Pcs	Image
#903305-T	5mm	10	
#903306-T	6mm	10	
#903308-T	8mm	10	
#903310-T	10mm	10	
#903312-T	12mm	10	
#903316-T	16mm	4	



SET-UP TUNING



STRENGTH



STYLE



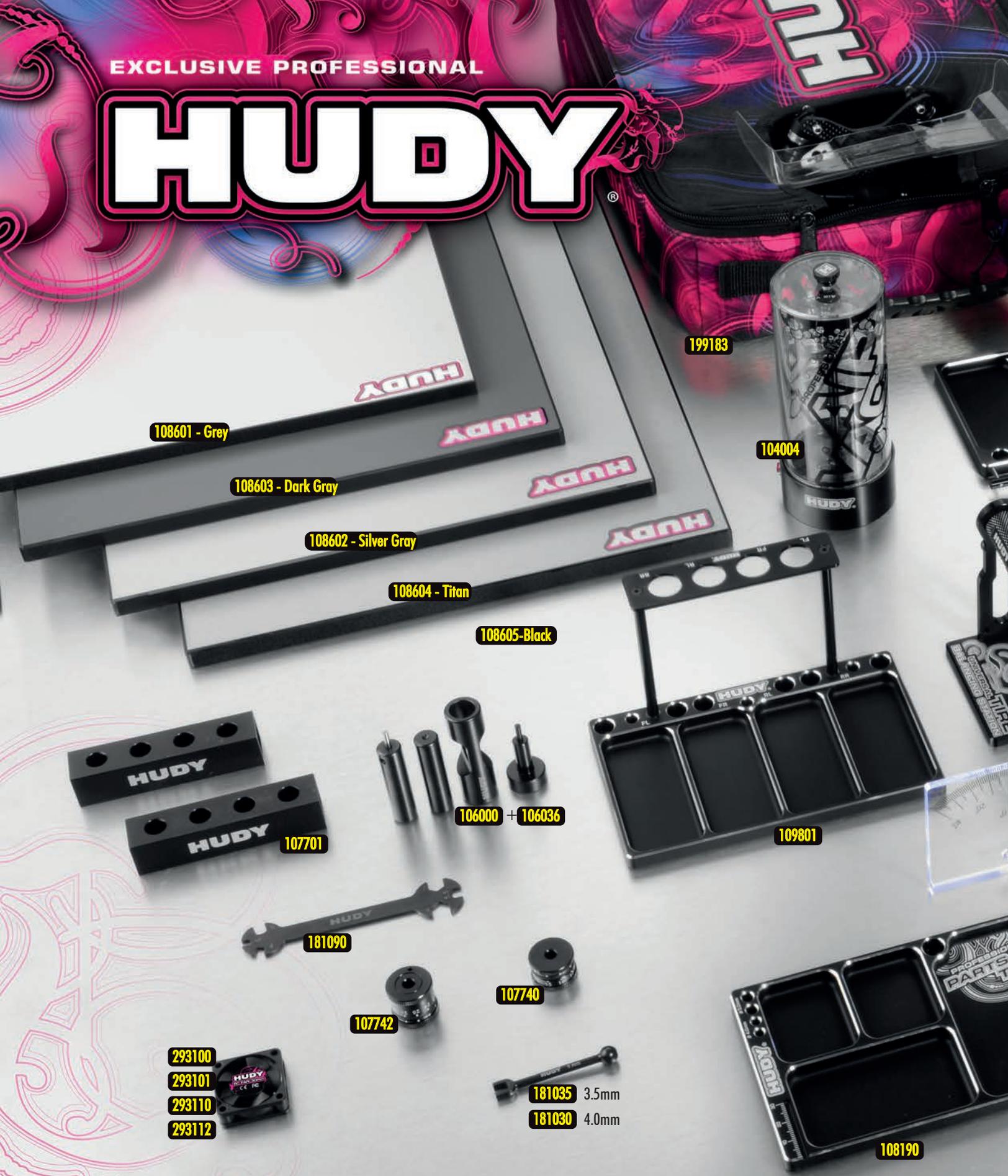
PERFORMANCE



WEIGHT SAVING

EXCLUSIVE PROFESSIONAL

HUDY®



108601 - Grey

108603 - Dark Gray

108602 - Silver Gray

108604 - Titan

108605-Black

199183

104004

107701

106000 + 106036

109801

181090

107742

107740

293100

293101

293110

293112

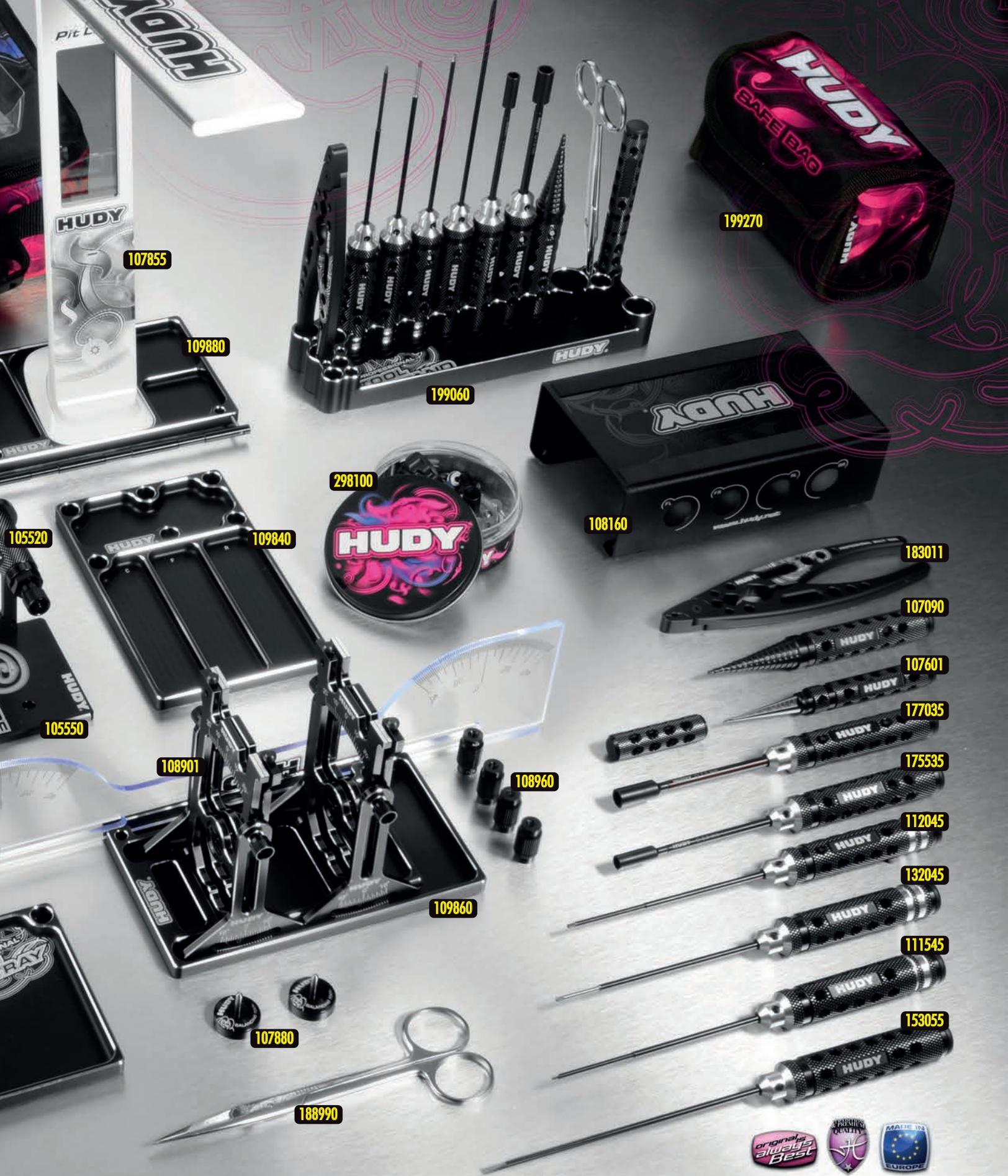
181035 3.5mm

181030 4.0mm

108190

- 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 0-9MM + 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
- 108601 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - GREY
- 108602 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - SILVER GRAY
- 108603 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - DARK GREY
- 108604 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - TITAN
- 108605 FLAT SET-UP BOARD FOR 1/10 OFF-ROAD - LIGHTWEIGHT - BLACK
- 108901 HUDY SET-UP STATION 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
- 298100 HUDY TIN ROUND BOX 80X30MM
- 293100 HUDY ALU RC FAN 30MM - BOTTOM MOUNT 2 HOLE
- 293101 HUDY ALU RC FAN 30MM - SIDE MOUNT 2 HOLE
- 293110 HUDY BRUSHLESS RC FAN 30MM - WITH EXTERNAL SOLDERING TABS
- 293112 HUDY BRUSHLESS RC FAN 30MM - WITH INTERNAL SOLDERING TABS



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

www.hudy.net

www.teamxray.com

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