

1/10 LUXURY ELECTRIC TOURING CAR

XTRAY X4



INSTRUCTION MANUAL
FOR X4'22 EDITION

BEFORE YOU START

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

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

CUSTOMER SUPPORT

We have made every effort to make these instructions as easy to understand as possible. However, if you have any difficulties, problems, or questions, please do not hesitate to contact the XRAY support team at info@teamxray.com. 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

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XRAY USA

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USA
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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 additions that may arise from the use of this product.

All rights reserved.

QUALITY CERTIFICATE

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

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

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

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

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

TOOLS REQUIRED



Combination Pliers (HUDY #189020)

Side Cutters (HUDY #189010)

Pocket Hobby Knife (HUDY #188981)

Special Tool for turnbuckles, nuts (HUDY #181090)

Turnbuckle Wrench 4mm (HUDY #181040)

Turnbuckle Wrench 3mm (HUDY #181030)

Tweezer



Allen 1.5mm (#111545 - HUDY EXCLUSIVE Limited Edition)

Allen 2.0mm (#112045 - HUDY EXCLUSIVE Limited Edition)

Allen 3.0mm (#113045 - HUDY EXCLUSIVE Limited Edition)

Ball Allen 3.0mm (#133045 - HUDY EXCLUSIVE Limited Edition)

Screwdriver 3.0mm (#153055 - HUDY EXCLUSIVE Limited Edition)

Socket 5.5mm (#175535 - HUDY EXCLUSIVE Limited Edition)

Socket 7.0mm (#177035 - HUDY EXCLUSIVE Limited Edition)

Reamer (#107602 - HUDY EXCLUSIVE Limited Edition)

Scissors (HUDY #188990)

Professional Multi Tool (HUDY #183011)

INCLUDED

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

400cSt (#106340) HUDY Premium Silicone Oils

5.000cSt (#106450) HUDY Premium Silicone Oils



(HUDY #106210) Premium Graphite Grease



EQUIPMENT REQUIRED

<p>Transmitter</p>	<p>Receiver</p>	<p>Speed Controller</p>	<p>Steering Servo</p>
<p>Electric Motor</p>	<p>Pinion Gear with Setscrew</p>	<p>LiPo Battery</p>	<p>Battery Charger</p>
<p>Lexan™ Paint</p>	<p>Wheels & Tires & Inserts (HUDY #803053 C3-28) (HUDY #803062 A1-36)</p>	<p>190mm Bodyshell</p>	<p>Double-sided Tape (HUDY #107875)</p>
<p>Fibre Tape (HUDY #107870)</p>	<p>Bearing Oil (HUDY #106230)</p>	<p>Threadlock</p>	<p>CA glue</p>

BUILD TIPS & NOTES



Alexander Hagberg (Factory Driver)
 When a QR CODE is found in the instruction manual, scan the code to be directed to an online video that explains that feature or adjustment in more detail. Make sure to watch all of the instructional videos to get the most performance out of your car.



SAMPLE OF OPTIONAL PARTS

#30XXXX	TYPE1	OPTION 1
#30XXXX	TYPE1	OPTION 2
#30XXXX	TYPE1	INCLUDED
#30XXXX	TYPE1	OPTION 3

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

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:

- 305134** **STYLE A** - indicates parts that are included in the bag marked for the section.
- 301011** **STYLE B** - indicates parts that are included in the box.
- 304901** **STYLE C** - indicates parts that are already assembled from previous steps.

CHASSIS PREPARATION

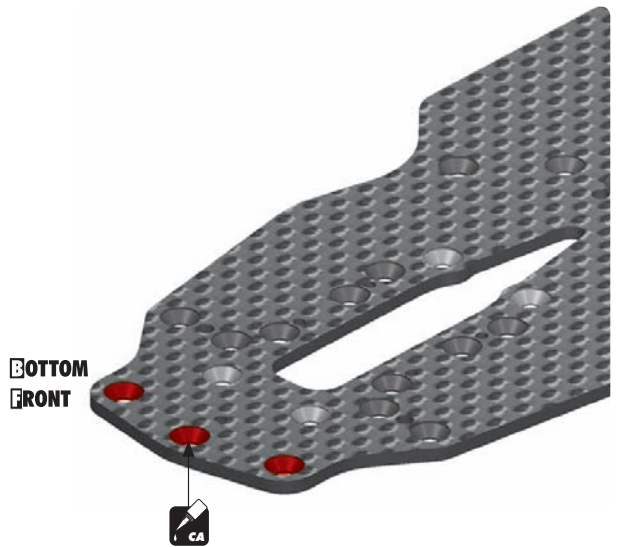
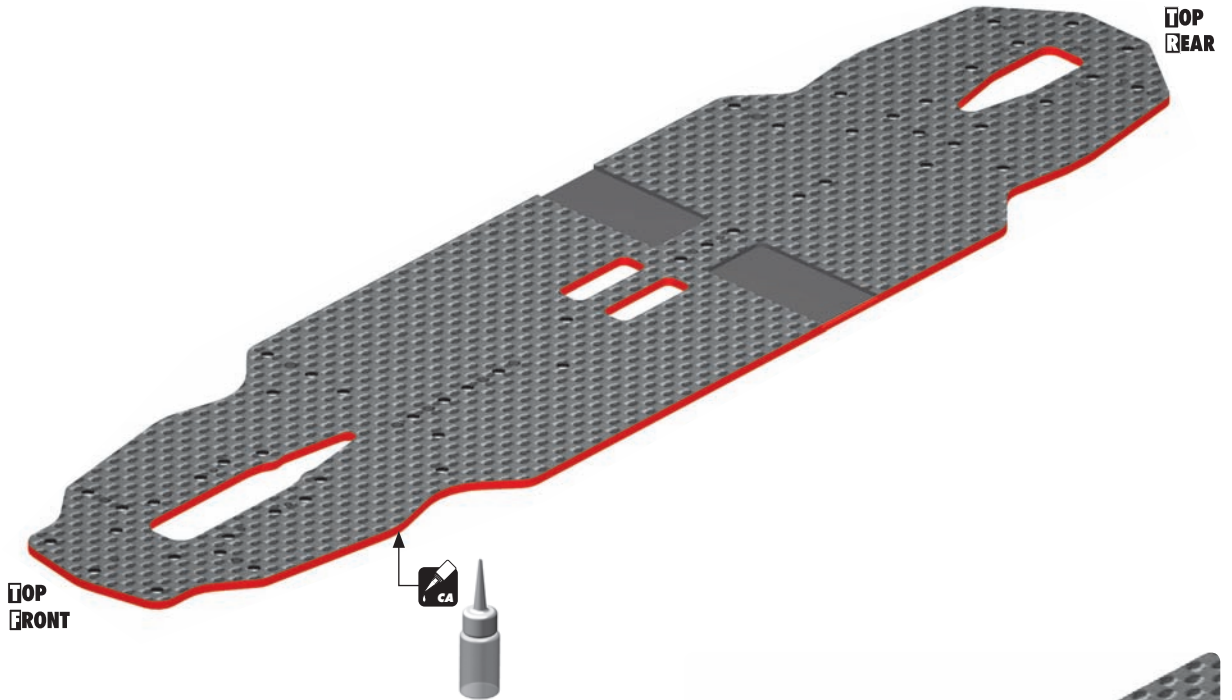


VIDEO TECH TIP



CHASSIS PREPARATION

To protect and seal edges of graphite parts, sand edges smooth and then apply CA glue.
 Do this for: chassis edges and countersunk holes.



Apply only a bit of CA glue in the countersunk holes.

1. GEAR DIFFERENTIAL & FRONT SOLID AXLE

#304932
OPTION GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)

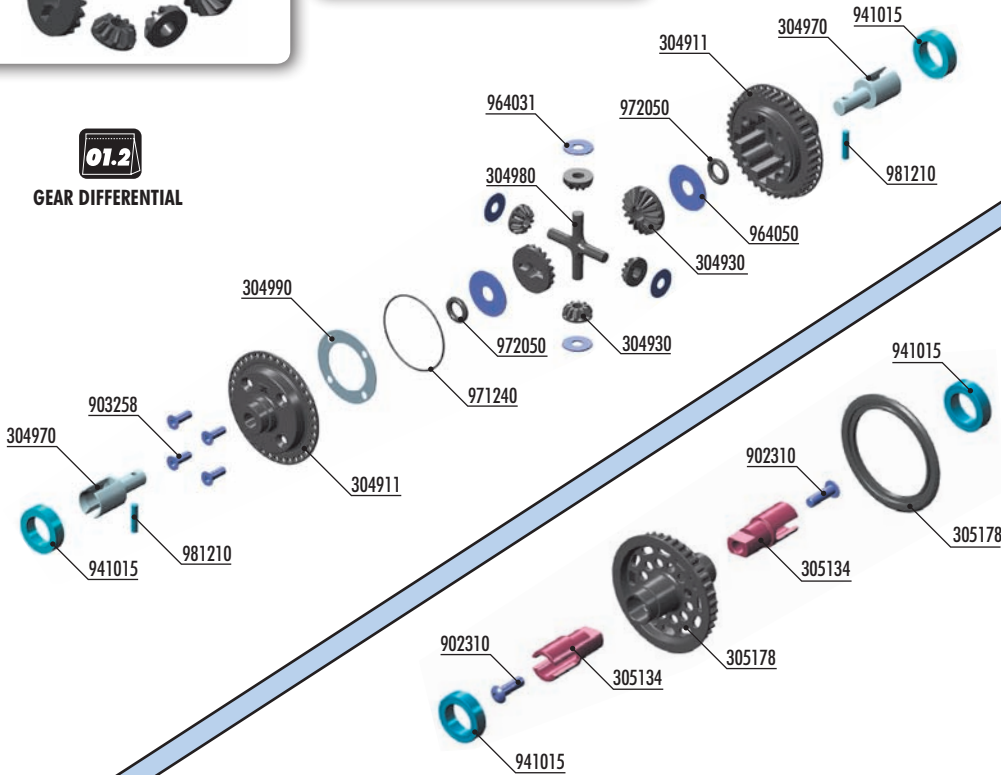


#304971
OPTION HUDY SPRING STEEL™ OUTDRIVES (2)



01.2

GEAR DIFFERENTIAL



01.1

COMPOSITE SOLID AXLE

#305136
OPTION ALU SOLID DRIVESHAFT ADAPTERS (2)



#305137
OPTION STEEL LIGHTWEIGHT SOLID AXLE DRIVESHAFT ADAPTERS HUDY SPRING STEEL™ (2)



BAG

01.1

01.2

- 304901 X4 GEAR DIFFERENTIAL - SET
- 304911 X4 COMPOSITE GEAR DIFF. CASE WITH 38T PULLEY & COVER
- 304930 COMPOSITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)
- 304970 ALU GEAR DIFF OUTDRIVE ADAPTER - 7075 T6 (2)
- 304980 COMPOSITE GEAR DIFF CROSS PIN
- 304990 DIFF GASKET (4)
- 305134 STEEL SOLID AXLE DRIVESHAFT ADAPTER - HUDY SPRING STEEL™ (2)
- 305178 X4 COMPOSITE SOLID AXLE 38T

- 902310 HEX SCREW SH M3x10 (10)
- 903258 HEX SCREW SFH M2.5x8 (10)
- 941015 BALL-BEARING 10x15x4 RUBBER SEALED - OIL (2)
- 964031 WASHER S 3.5x10x0.2 (10)
- 964050 WASHER S 5x15x0.3 (10)
- 971240 SILICONE O-RING 24x0.7 (10)
- 972050 SILICONE O-RING 5x2 (10)
- 981210 PIN 2x10 (10)



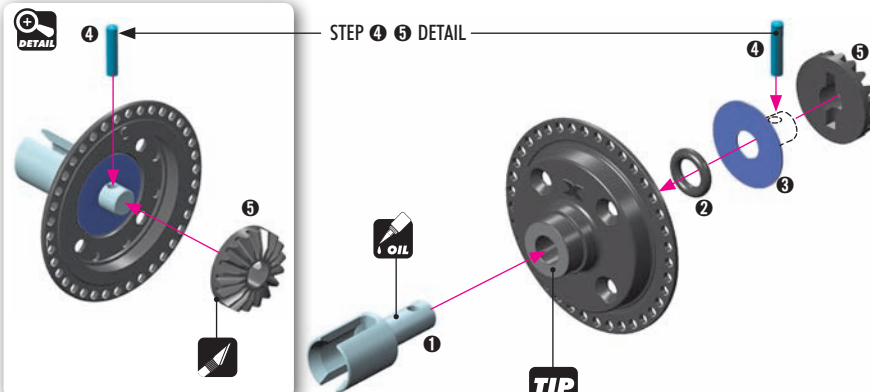
964050
S 5x15x0.3



972050
O 5x2



981210
P 2x10



TIP

If the diff is not turning freely after assembly, use thin sand paper to lightly polish the surface.

#304971
OPTION HUDY SPRING STEEL™ OUTDRIVES (2)



#304932
OPTION GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)



1. GEAR DIFFERENTIAL & FRONT SOLID AXLE



964050
5x15x0.3

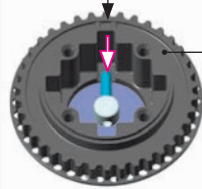
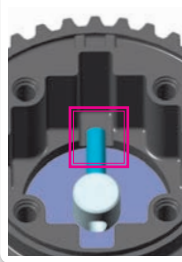


972050
0.5x2

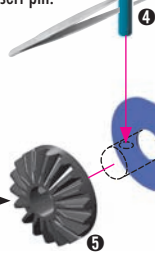


981210
P 2x10

NOTE
ORIENTATION

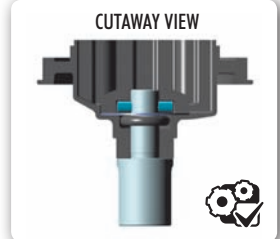


STEP 4 DETAIL
Use tweezers to insert pin.

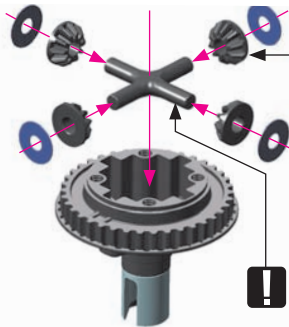


If the diff is not turning freely after assembly, use thin sand paper to lightly polish the surface.

TIP



964031
5.3x10x0.2



OPTION #304932
GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)

NOTE If the cross does not enter into the diff freely, use fine sand paper to lightly polish the ends of the cross.

INITIAL SETTING
5.000cSt



TIP



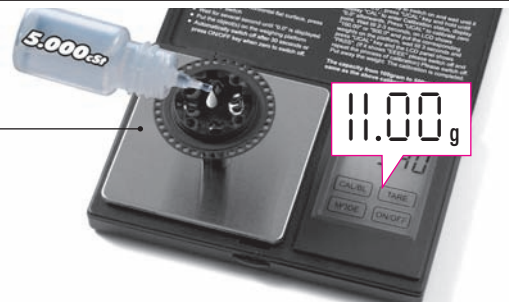
Fill differential up to the top of the diff pin.
DO NOT fill the diff to the top of the housing.

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



9.50g

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



11.00g

1 Put the diff (without oil) on the scale and check the weight (approximately 9.50g).

$$9.50g + 1.5g = 11.00g$$

2 Slowly pour oil into the diff and watch the weight. Add 1.5g of oil into the diff. The approximate weight of the diff including oil is 11.00g.

TIP

TIPS FOR DIFFERENTIALS

TIP

LOW TRACTION

1.000cSt (HUDY #106410)
2.000cSt (HUDY #106420)

MEDIUM TRACTION

2.000cSt (HUDY #106420)
3.000cSt (HUDY #106430)
4.000cSt (HUDY #106440)
5.000cSt (HUDY #106450)

HIGH TRACTION

5.000cSt (HUDY #106450)
6.000cSt (HUDY #106460)
7.000cSt (HUDY #106470)
8.000cSt (HUDY #106480)
9.000cSt (HUDY #106490)
10.000cSt (HUDY #106510)

VERY-HIGH TRACTION

10.000cSt (HUDY #106510)
11.000cSt (HUDY #106492)
12.000cSt (HUDY #106512)
15.000cSt (HUDY #106515)
20.000cSt (HUDY #106520)

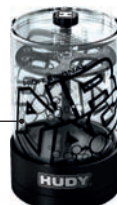
NOTE

LIGHTER oil increases rear traction, HEAVIER oil increases on-power steering and stability. It is important not to use lighter oils in high-traction conditions as this would not increase traction, but would make the car loose as the car would become too twitchy.

However, if the oil is too light, it could generate the same effect like the car has no traction. Therefore it is very important to choose the correct oil very carefully. We recommend using lighter oil first, then try heavier oil to better understand the effect on the car's behavior at the track. Choose the oil accordingly.

OPTION #104002
HUDY AIR VAC – VACUUM PUMP

TIP To make sure that all the air is removed from the diff oil, we recommend using the HUDY Air Vac.



TIP TIPS FOR FRONT DIFFERENTIAL

To increase off-power steering and mid-corner steering, the gear diff can also be used in front. **NOTE:** If you use the gear diff in the front, we recommend using optional #304971 HUDY Spring Steel™ outrives because the stress on the outrives in the front is much higher than in the rear.

USE THESE OILS FOR FRONT DIFFERENTIAL

500.000cSt (HUDY #106650)
1 000.000cSt (HUDY #106692)
2 000.000cSt (HUDY #106694)

To make the front differential thicker, you can use cleaning gum instead of oil.

IMPORTANT!

Using cleaning gum instead of oil in the gear differential can lead to gear breakage because the gears are working under dry conditions.




VIDEO TECH TIP




REAR DIFFERENTIAL

1. GEAR DIFFERENTIAL & FRONT SOLID AXLE




971240
O 24x0.7



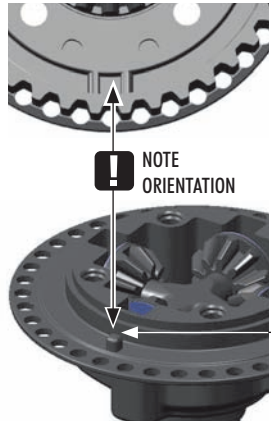
!

After disassembling the gear diff, the large O-ring may have an increased size and may be more difficult to re-install. We recommend either inserting the old O-ring carefully in the diff cover, or installing a new O-ring if the old one cannot be made to fit properly.

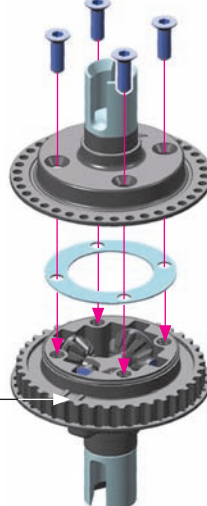



903258
SFH M2.5x8

! BOTTOM



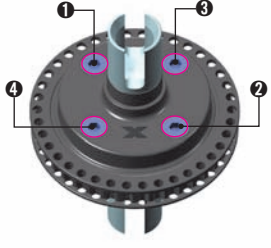
! NOTE ORIENTATION





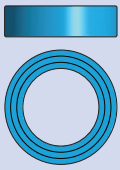
!

Tighten the screws equally but do NOT tighten them completely.

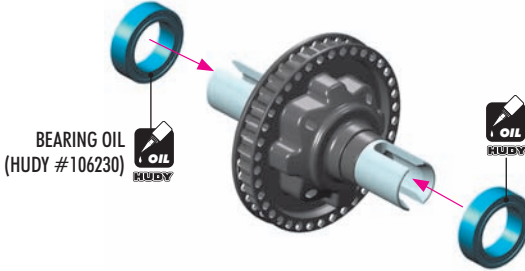


!

Finish tightening in this order.




941015
BB 10x15x4



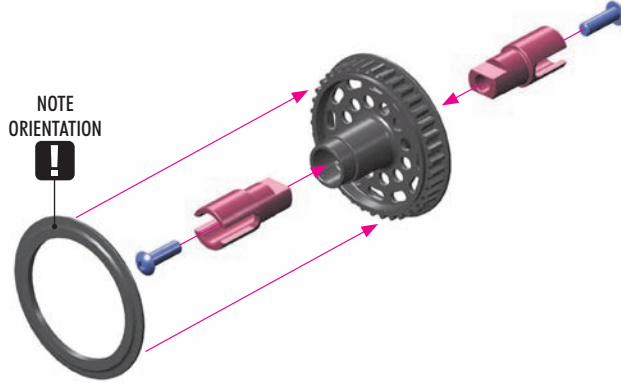
BEARING OIL
(HUDY #106230)

! OIL HUDY

1. FRONT SOLID AXLE




902310
SH M3x10



! NOTE ORIENTATION


! OPTION

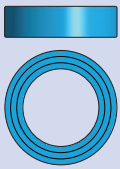
#305137
STEEL LIGHTWEIGHT SOLID AXLE
DRIVESHAFT ADAPTERS HUDY
SPRING STEEL™ (2)



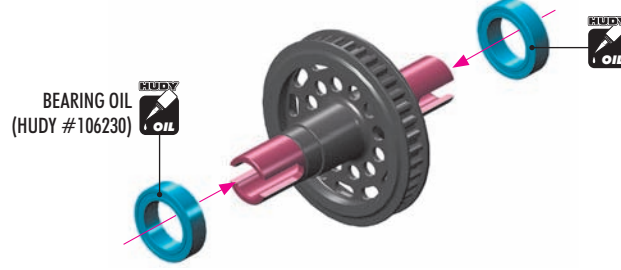
! OPTION

#305136
ALU SOLID DRIVESHAFT ADAPTERS (2)





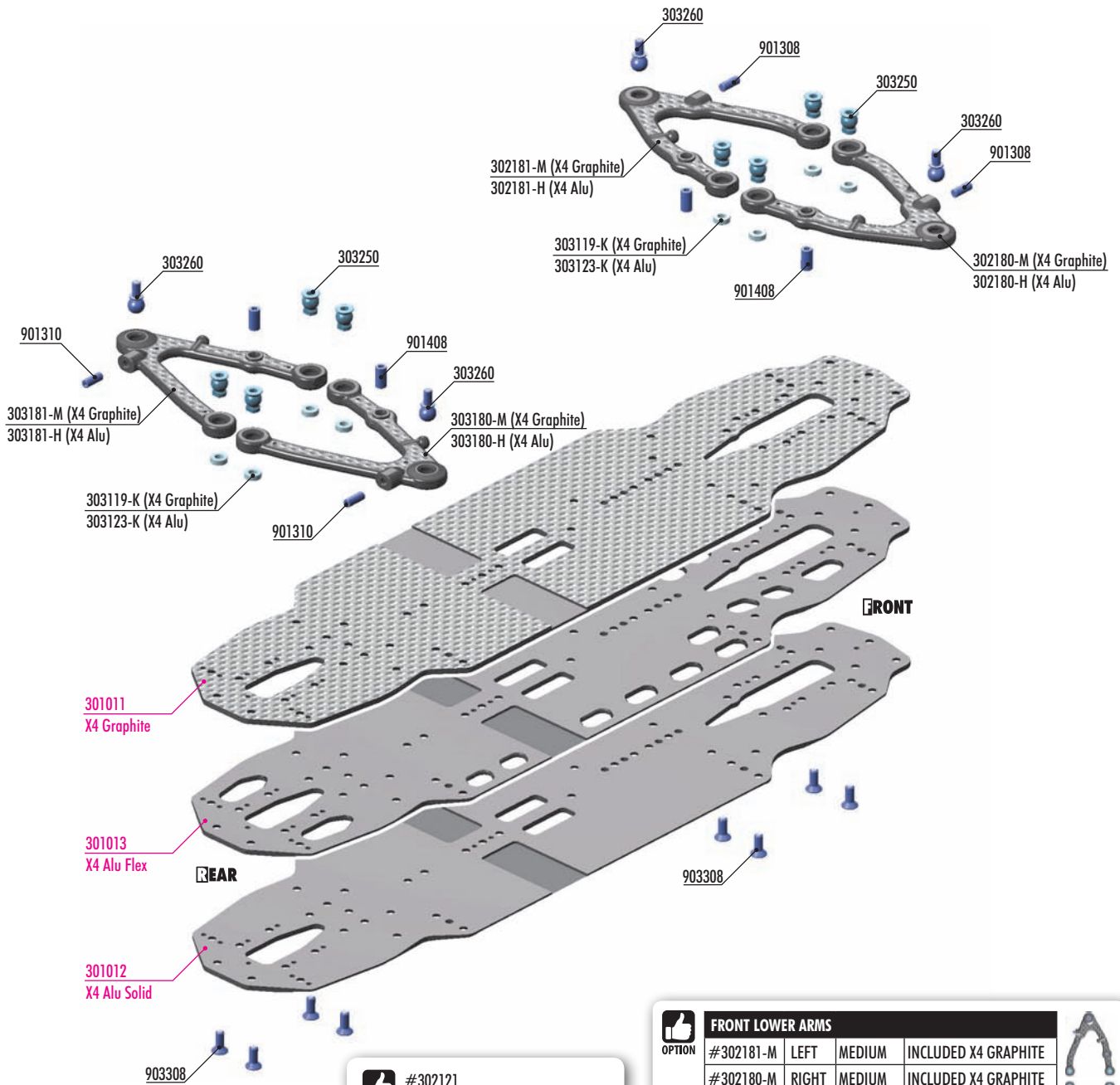
941015
BB 10x15x4



BEARING OIL
(HUDY #106230)

! OIL HUDY

2. FRONT & REAR SUSPENSION



301011
X4 Graphite

301013
X4 Alu Flex

301012
X4 Alu Solid

#302121
FRONT ROLL-CENTER SPACER (2)

#302122
REAR ROLL-CENTER SPACER (2)

FRONT LOWER ARMS				
#302181-M	LEFT	MEDIUM	INCLUDED X4 GRAPHITE	
#302180-M	RIGHT	MEDIUM	INCLUDED X4 GRAPHITE	
#302181-H	LEFT	HARD	INCLUDED X4 ALU	
#302180-H	RIGHT	HARD	INCLUDED X4 ALU	

REAR LOWER ARMS				
#303181-M	LEFT	MEDIUM	INCLUDED X4 GRAPHITE	
#303180-M	RIGHT	MEDIUM	INCLUDED X4 GRAPHITE	
#303181-H	LEFT	HARD	INCLUDED X4 ALU	
#303180-H	RIGHT	HARD	INCLUDED X4 ALU	

BAG

02

302180-M	X4 COMPOSITE CFF™	CARBON-FIBER FUSION FRONT LOWER ARM - MEDIUM - RIGHT
302180-H	X4 COMPOSITE CFF™	CARBON-FIBER FUSION FRONT LOWER ARM - HARD - RIGHT
302181-M	X4 COMPOSITE CFF™	CARBON-FIBER FUSION FRONT LOWER ARM - MEDIUM - LEFT
302181-H	X4 COMPOSITE CFF™	CARBON-FIBER FUSION FRONT LOWER ARM - HARD - LEFT
303119-K	ALU SHIM 3x9x2.0MM	- BLACK (10)
303123-K	ALU SHIM 3x6x2.0MM	- BLACK (10)
303180-M	X4 COMPOSITE CFF™	CARBON-FIBER FUSION REAR LOWER ARM - MEDIUM - RIGHT
303180-H	X4 COMPOSITE CFF™	CARBON-FIBER FUSION REAR LOWER ARM - HARD - RIGHT
303181-M	X4 COMPOSITE CFF™	CARBON-FIBER FUSION REAR LOWER ARM - MEDIUM - LEFT
303181-H	X4 COMPOSITE CFF™	CARBON-FIBER FUSION REAR LOWER ARM - HARD - LEFT
303250	X4 LOWER ARM BALL UNIVERSAL 6.0MM WITH HEX	- HUDY SPRING STEEL™ (2)
303260	X4 PIVOT BALL 6.0MM WITH M3x5.5MM THREAD	- HUDY SPRING STEEL™ (2)

901308	HEX SCREW SB M3x8 (10)
901310	HEX SCREW SB M3x10 (10)
901408	HEX SCREW SB M4x8 (10)
903308	HEX SCREW SFH M3x8 (10)

301011	X4 GRAPHITE CHASSIS 2.2MM
301012	X4 ALU SOLID CHASSIS 2.0MM - SWISS 7075 T6
301013	X4 ALU FLEX CHASSIS 2.0MM - SWISS 7075 T6

2. FRONT & REAR SUSPENSION

REAR SUSPENSION ARMS

LEFT **RIGHT**

NOTE ORIENTATION

NOTE ORIENTATION

NOTE ORIENTATION

NOTE ORIENTATION

NOTE ORIENTATION

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

Press straight

901310
SB M3x10

901408
SB M4x8

VIDEO TECH TIP

LOWER ARMS

REAR SUSPENSION ARMS

LEFT = RIGHT

4x8mm

3x10mm

5.0mm

2.6mm

Make sure to use 10mm set screw for rear arms.

FRONT SUSPENSION ARMS

LEFT **RIGHT**

NOTE ORIENTATION

NOTE ORIENTATION

NOTE ORIENTATION

NOTE ORIENTATION

NOTE ORIENTATION

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

Press straight

2. FRONT & REAR SUSPENSION

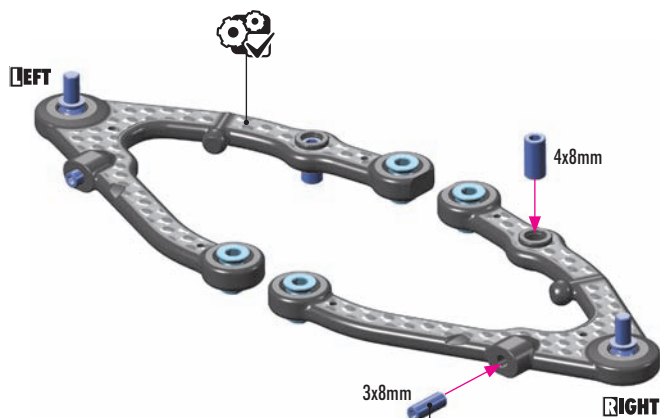


901308
SB M3x8



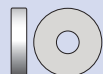
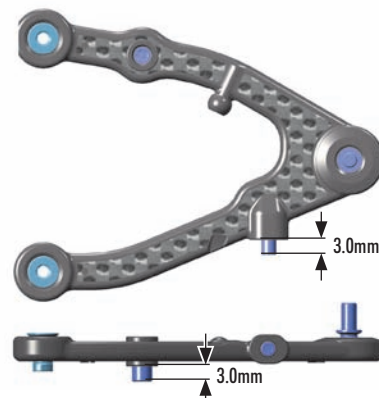
901408
SB M4x8

FRONT SUSPENSION ARMS



Make sure to use 8mm set screw for front arms.

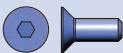
LEFT = RIGHT



303119-K
SHIM 3x9x2



303123-K
SHIM 3x6x2

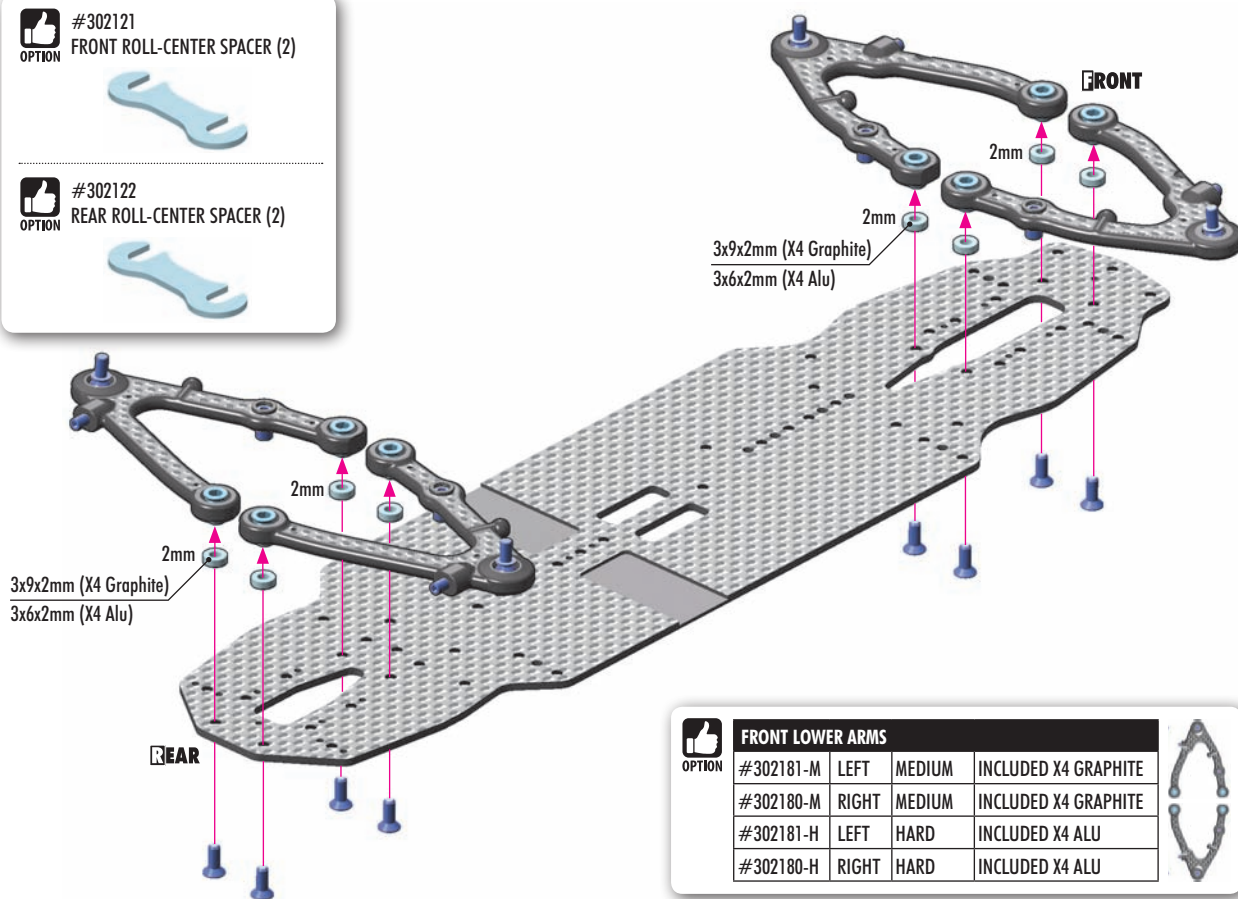


903308
SFH M3x8

#302121
FRONT ROLL-CENTER SPACER (2)

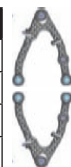


#302122
REAR ROLL-CENTER SPACER (2)



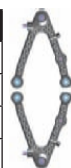
FRONT LOWER ARMS

OPTION	Part #	Side	Hardness	Included
	#302181-M	LEFT	MEDIUM	INCLUDED X4 GRAPHITE
	#302180-M	RIGHT	MEDIUM	INCLUDED X4 GRAPHITE
	#302181-H	LEFT	HARD	INCLUDED X4 ALU
	#302180-H	RIGHT	HARD	INCLUDED X4 ALU



REAR LOWER ARMS

OPTION	Part #	Side	Hardness	Included
	#303181-M	LEFT	MEDIUM	INCLUDED X4 GRAPHITE
	#303180-M	RIGHT	MEDIUM	INCLUDED X4 GRAPHITE
	#303181-H	LEFT	HARD	INCLUDED X4 ALU
	#303180-H	RIGHT	HARD	INCLUDED X4 ALU



ROLL-CENTER ADJUSTMENT

RAISING THE LOWER ARMS will raise the car's roll center. Raising the lower arms both front and rear will free up the car, and will make it initially more responsive. Side bite will be decreased. A higher roll center is typically recommended for asphalt racing.

LOWERING THE LOWER ARMS will lower the car's roll center. Lowering both the front and rear arms will lock in the car more, and will make it initially less responsive. Side bite will be increased. A lower roll center is typically recommended for carpet racing.

We recommend the MEDIUM hardness of the lower suspension arms for asphalt. These arms are more flexible than the H (hard) arms.

For carpet racing and even some high-grip asphalt conditions, we recommend the HARD suspension arms.



VIDEO TECH TIP

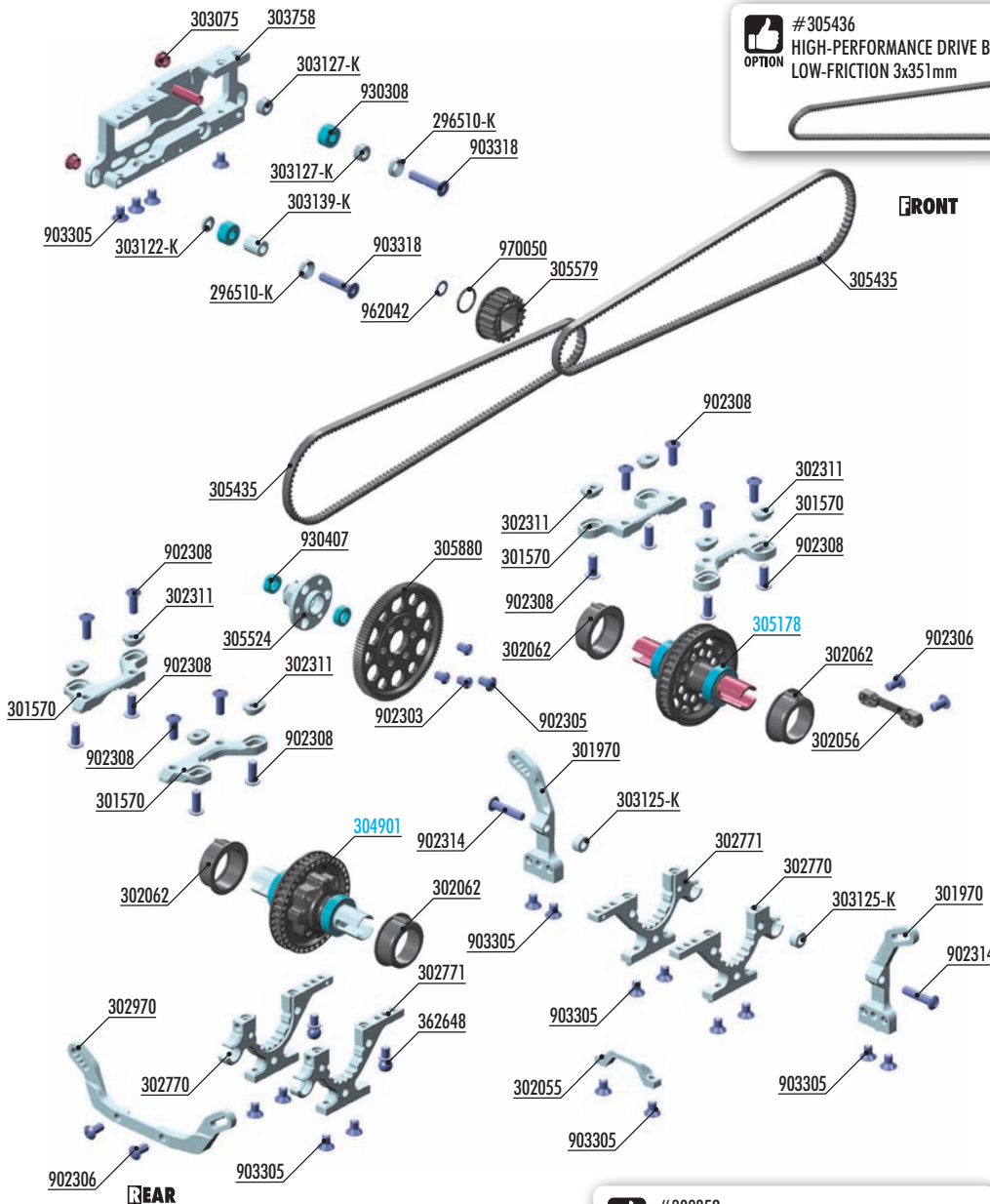


ROLL-CENTER



CHASSIS ALTERNATIVES

3. CENTRAL TRANSMISSION



#305436
 HIGH-PERFORMANCE DRIVE BELT
 LOW-FRICTION 3x351mm

#303768
 ALU CHASSIS T-BRACE - 7075 T6

#303767
 BRASS CHASSIS T-BRACE - 10g

OPTION

SPUR GEARS 48P		
#305772	72T / 48P	OPTION
#305776	76T / 48P	OPTION
#305778	78T / 48P	OPTION
#305779	79T / 48P	OPTION
#305781	81T / 48P	OPTION
#305784	84T / 48P	OPTION
#305784-0	84T / 48P	OPTION

OFFSET SPUR GEARS 64P		
#305860	90T / 64P	OPTION
#305862	92T / 64P	OPTION
#305866	96T / 64P	OPTION
#305866-0	96T / 64P	OPTION
#305869	99T / 64P	OPTION
#305870	100T / 64P	OPTION
#305870-0	100T / 64P	OPTION
#305874	104T / 64P	OPTION
#305876	106T / 64P	OPTION
#305878	108T / 64P	OPTION
#305880	110T / 64P	INCLUDED
#305880-0	110T / 64P	OPTION
#305882	112T / 64P	OPTION
#305884	114T / 64P	OPTION

#309852
 X4 BRASS WEIGHTS NICKEL COATED FOR MOTOR MOUNT 4g + 4g + 8g

#302063 or #302063-K
 ALU ADJUSTMENT BALL-BEARING HUB (2)

OPTION

ALU CASTER BUSHINGS			
#302310	FRONT 3° / REAR 5.5°	1 Dot	OPTION
#302311	FRONT 4° / REAR 4.5°	2 Dots	INCLUDED
#302312	FRONT 5° / REAR 3.5°	3 Dots	OPTION

BAG
03

- | | | | |
|----------|---|--------|---|
| 296510-K | ALU COUNTERSUNK SHIM - BLACK (10) | 305579 | X4 COMPOSITE PULLEY FOR LAYSHAFT 20T |
| 301570 | X4 ALU UPPER CLAMP - SWISS 7075 T6 (L+R) | 305880 | OFFSET SPUR GEAR 110T / 64 |
| 301970 | X4 ALU SHOCK TOWER FRONT - SWISS 7075 T6 (L+R) | 362648 | BALL END 4.9MM WITH THREAD 4MM (2) |
| 302055 | X4 ALU CHASSIS FRONT BRACE | 902303 | HEX SCREW SH M3x4 SMALL HEAD - STAINLESS (10) |
| 302056 | X4 GRAPHITE FRONT SUSPENSION BRACE | 902305 | HEX SCREW SH M3x5 (10) |
| 302062 | COMPOSITE ADJUSTMENT BALL-BEARING HUB (4) | 902306 | HEX SCREW SH M3x6 (10) |
| 302311 | X4 ALU CASTER BUSHING FRONT 4° / REAR 1.5° - 2 DOTS (4) | 902308 | HEX SCREW SH M3x8 (10) |
| 302770 | X4 ALU LOWER ADJUSTMENT BULKHEAD - FRONT R / REAR L | 902314 | HEX SCREW SH M3x14 (10) |
| 302771 | X4 ALU LOWER ADJUSTMENT BULKHEAD - FRONT L / REAR R | 903305 | HEX SCREW SFH M3x5 (10) |
| 302970 | X4 ALU SHOCK TOWER REAR - SWISS 7075 T6 | 903318 | HEX SCREW SFH M3x18 (10) |
| 303075 | STEEL NUT (2) | 930308 | BALL-BEARING 3x8x4 STEEL SEALED - OIL (2) |
| 303122-K | ALU SHIM 3x6x1.0MM - BLACK (10) | 930407 | BALL-BEARING 4x7x2.5 STEEL SEALED - OIL (2) |
| 303125-K | ALU SHIM 3x6x3.0MM - BLACK (10) | 962042 | WASHER S 4x6x0.1 (10) |
| 303127-K | ALU SHIM 3x6x4.0MM - BLACK (10) | 970050 | O-RING 5x1 (10) |
| 303139-K | ALU SHIM 3x6x7.0MM - BLACK (10) | 304901 | X4 GEAR DIFFERENTIAL - SET |
| 303758 | X4 ALU MOTOR MOUNT | 305178 | X4 COMPOSITE SOLID AXLE 38T |
| 305435 | HIGH-PERFORMANCE DRIVE BELT 3x351MM | | |
| 305524 | X4 ALU SOLID LAYSHAFT & BEARINGS | | |

3. CENTRAL TRANSMISSION



903305
SFH M3x5

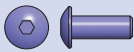


VIDEO TECH TIP



BUILDING THE BULKHEADS

3. CENTRAL TRANSMISSION



902308
SH M3x8

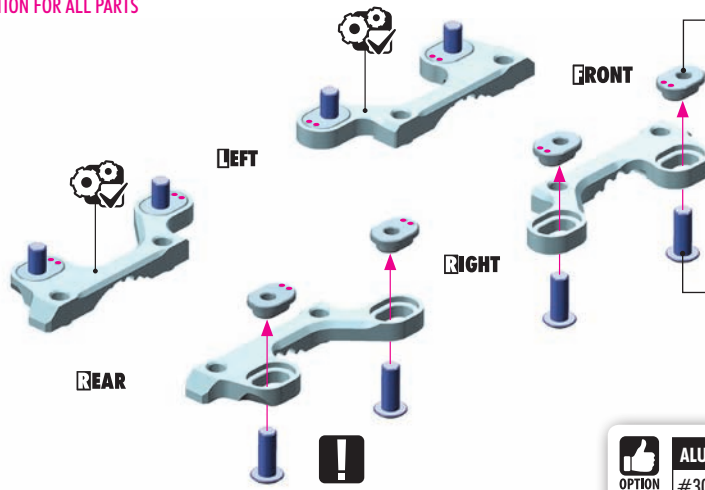


VIDEO TECH TIP



CASTER

NOTE ORIENTATION FOR ALL PARTS



Never use alu or titanium screws for the eccentric bushings.

IMPORTANT
All 4 bushings at one end of the car must be installed in the same orientation.

!
Never use alu or titanium screws for the eccentric bushings.

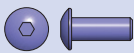
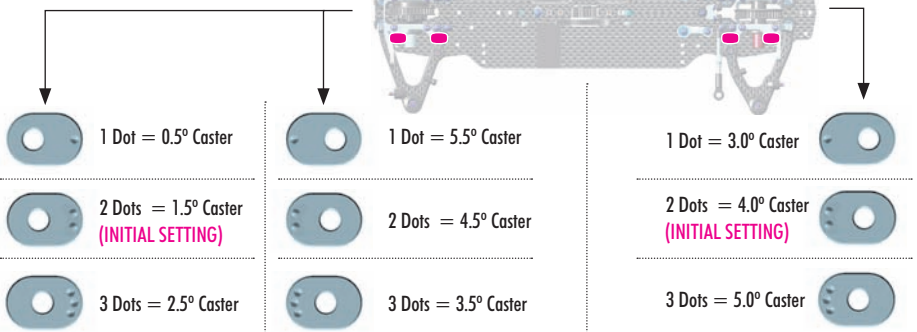
OPTION	ALU CASTER BUSHINGS			
#302310	0.5° / 3.0° / 5.5°	1 Dot	OPTION	
#302311	1.5° / 4.0° / 4.5°	2 Dots	INCLUDED	
#302312	2.5° / 3.5° / 5.0°	3 Dots	OPTION	

CASTER ADJUSTMENT

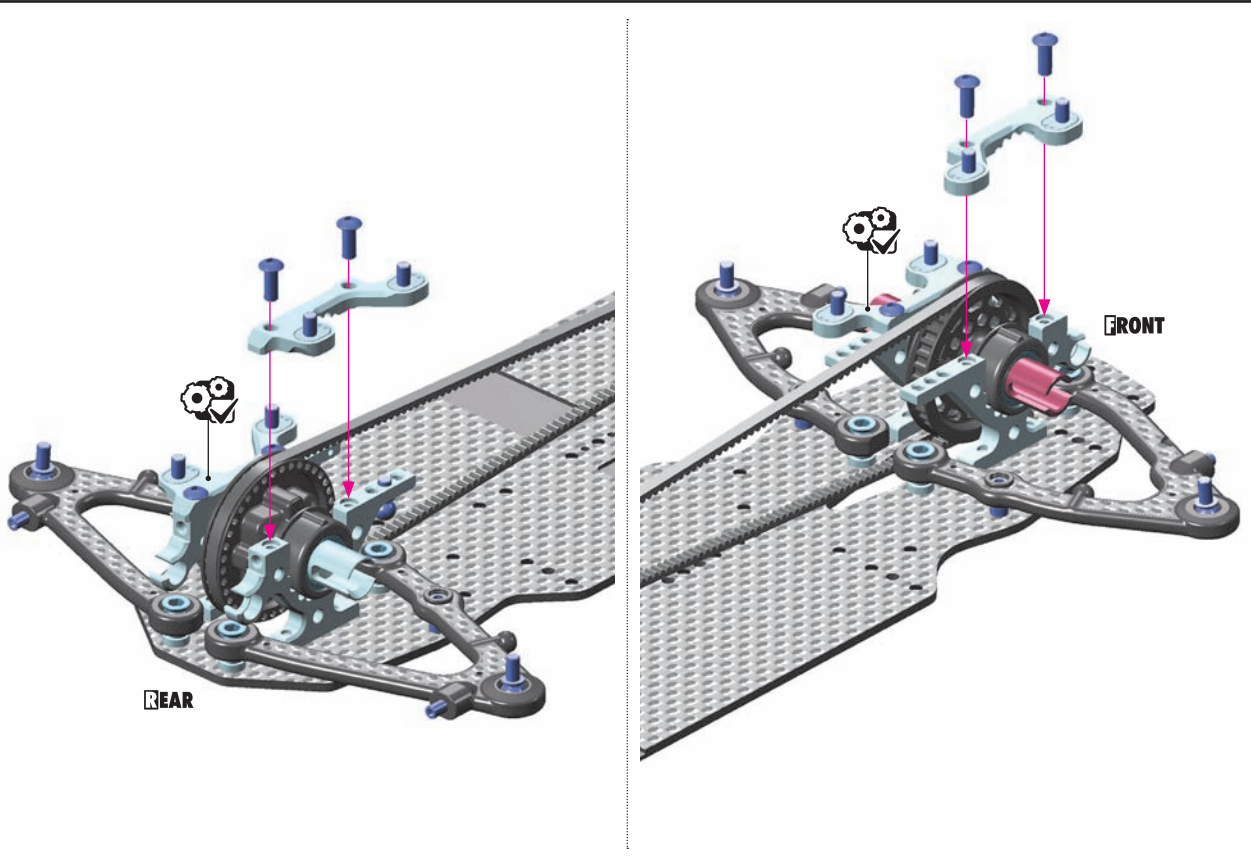
For most conditions, start with front caster set at 4.0°. Increasing front caster will increase steering (mainly on-power), but it will also make the car more difficult to drive and more likely to traction roll.

A good starting point for the rear caster is 1.5°. More rear caster will increase initial steering making the car more nervous to drive, but it can help increase cornering speeds on technical or higher grip tracks.

IMPORTANT
All 4 bushings at one end of the car must be installed in the same orientation.



902308
SH M3x8

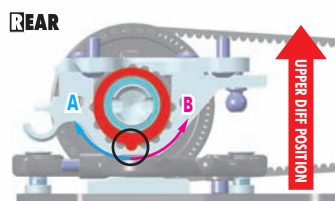


3. CENTRAL TRANSMISSION

REAR BELT TENSION ADJUSTMENT & DIFFERENTIAL POSITION

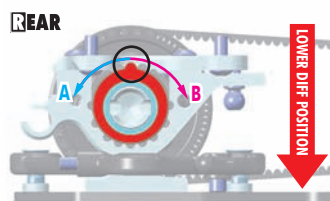
Rear diff **UPPER** position - tab in bottom notch - provides **more on-power steering**, but makes the rear **less stable**.

Recommended for **medium-high traction** tracks.



Rear diff **LOWER** position - tab in top notch - provides **more rear traction** (mainly on-power), makes the car **more stable in chicanes**, but can **cause a push on corner exit**.

Recommended for **low-medium** traction tracks.



INITIAL POSITION for CARPET/ASPHALT
Place tab in this UPPER NOTCH

TO LOOSEN REAR BELT:

Rotate both rear nylon hubs in arrow direction **A**

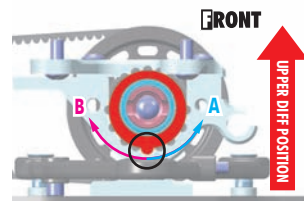
TO TIGHTEN REAR BELT:

Rotate both rear nylon hubs in arrow direction **B**

FRONT BELT TENSION ADJUSTMENT & DIFFERENTIAL POSITION

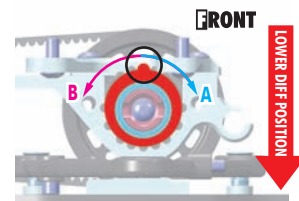
Front solid axle **UPPER** position - tab in bottom notch - provides **more steering**, but **less forward traction**.

Recommended for **medium-high** traction tracks and technical tracks.



Front solid axle **LOWER** position - tab in top notch - provides **more forward traction**, but makes the car **push on-power**.

Recommended for **low-traction** tracks.



INITIAL POSITION for CARPET/ASPHALT
Place tab in this UPPER NOTCH

TO LOOSEN FRONT BELT:

Rotate both front nylon hubs in arrow direction **A**

TO TIGHTEN FRONT BELT:

Rotate both front nylon hubs in arrow direction **B**



VIDEO TECH TIP



DIFF HEIGHT



BELT TENSION ADJUSTMENT



902303
SH M3x4



930407
BB 4x7x2.5

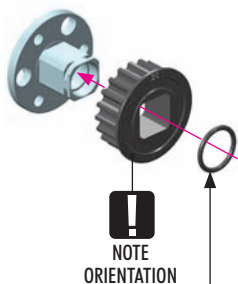


970050
O 5x1



966081
CH-CLIP 8

1.



#966081
CH-CLIP 8 (10)
INCLUDED IN THE
LAST AID BAG

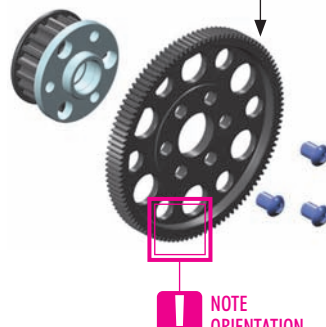
Another alternative to secure the pulley on the layshaft is to use the CH-clip which is included in the "Last Aid" Bag. To mount the clip on the layshaft, you have to use special Snap Ring Pliers.



Snap Ring Pliers
(HUDY #189040)

2. ALTERNATIVE

64P OFFSET SPUR GEAR
(INITIAL SETTING)



CUTAWAY VIEW

NOTE ORIENTATION
OFFSET NOTE ORIENTATION

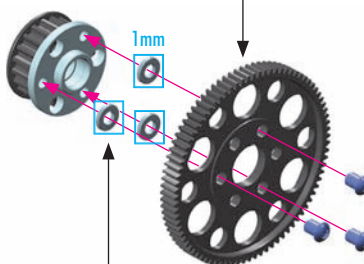


OFFSET SPUR GEARS 64P

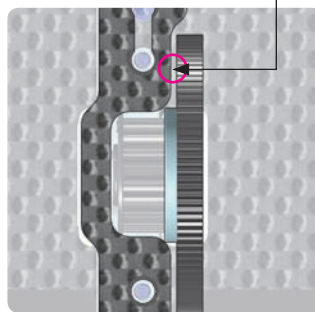
OPTION	#305860	90T	OPTION
	#305862	92T	OPTION
	#305866	96T	OPTION
	#305866-0	96T	OPTION
	#305869	99T	OPTION
	#305870	100T	OPTION
	#305870-0	100T	OPTION
	#305874	104T	OPTION
	#305876	106T	OPTION
	#305878	108T	OPTION
	#305880	110T	INCLUDED
	#305880-0	110T	OPTION
	#305882	112T	OPTION
	#305884	114T	OPTION

2. ALTERNATIVE

48P SPUR GEAR



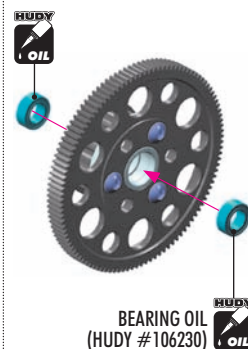
When using XRAY 48P spur gears or aftermarket spur gears without an offset, use the 3x5x1mm shims (#303141 not included) between the gear and layshaft to create the necessary clearance from the top deck.



SPUR GEARS 48P

OPTION	#305772	72T	OPTION
	#305776	76T	OPTION
	#305778	78T	OPTION
	#305779	79T	OPTION
	#305781	81T	OPTION
	#305784	84T	OPTION
	#305784-0	84T	OPTION

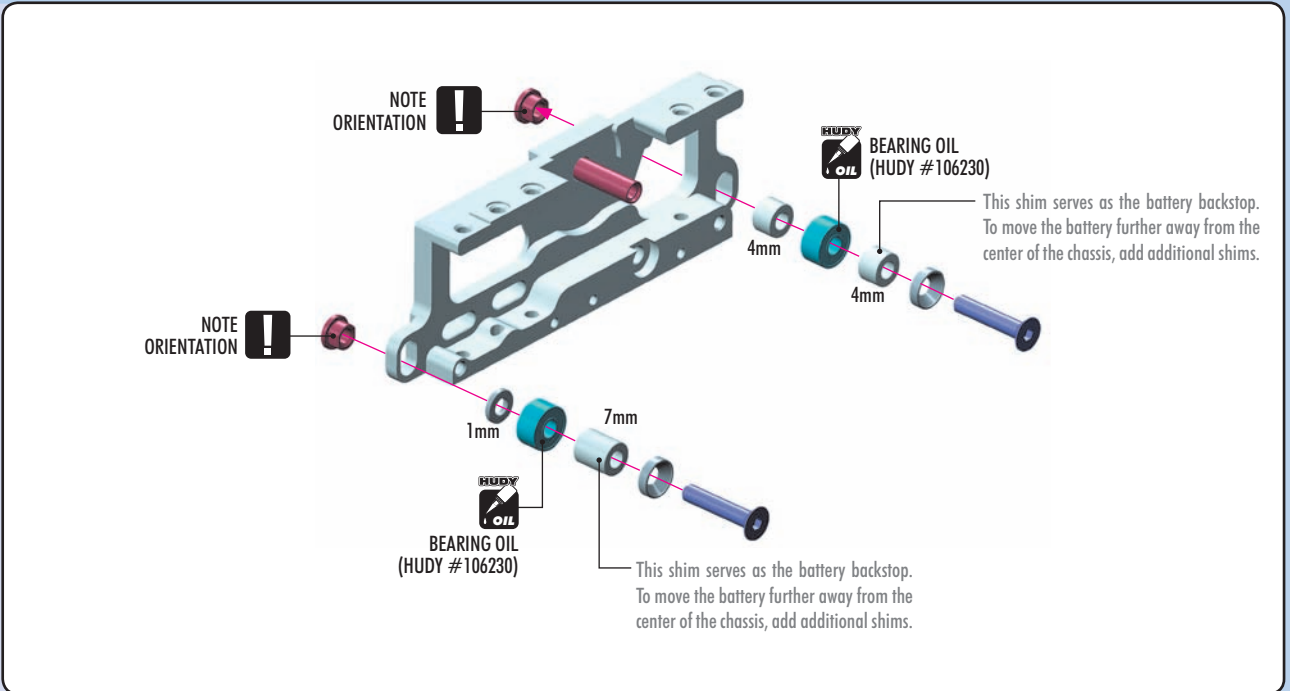
3.




BEARING OIL
(HUDY #106230)

3. CENTRAL TRANSMISSION


-  303122-K
SHIM 3x6x1
-  303127-K
SHIM 3x6x4
-  303139-K
SHIM 3x6x7
-  903318
SFH M3x18
-  930308
BB 3x8x4



NOTE ORIENTATION 


BEARING OIL (HUDY #106230)


This shim serves as the battery backstop. To move the battery further away from the center of the chassis, add additional shims.


NOTE ORIENTATION 


BEARING OIL (HUDY #106230)

This shim serves as the battery backstop. To move the battery further away from the center of the chassis, add additional shims.

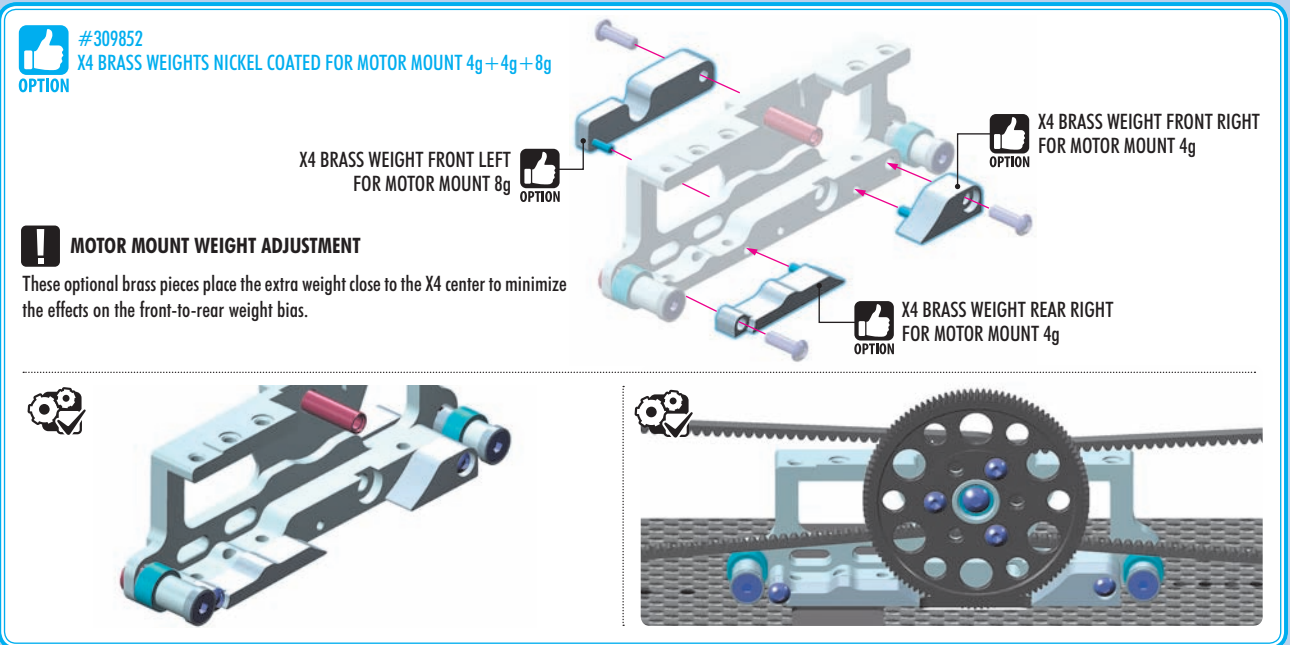
 #309852
X4 BRASS WEIGHTS NICKEL COATED FOR MOTOR MOUNT 4g + 4g + 8g
OPTION

X4 BRASS WEIGHT FRONT LEFT FOR MOTOR MOUNT 8g  **OPTION**

X4 BRASS WEIGHT FRONT RIGHT FOR MOTOR MOUNT 4g  **OPTION**

X4 BRASS WEIGHT REAR RIGHT FOR MOTOR MOUNT 4g  **OPTION**

! MOTOR MOUNT WEIGHT ADJUSTMENT
These optional brass pieces place the extra weight close to the X4 center to minimize the effects on the front-to-rear weight bias.

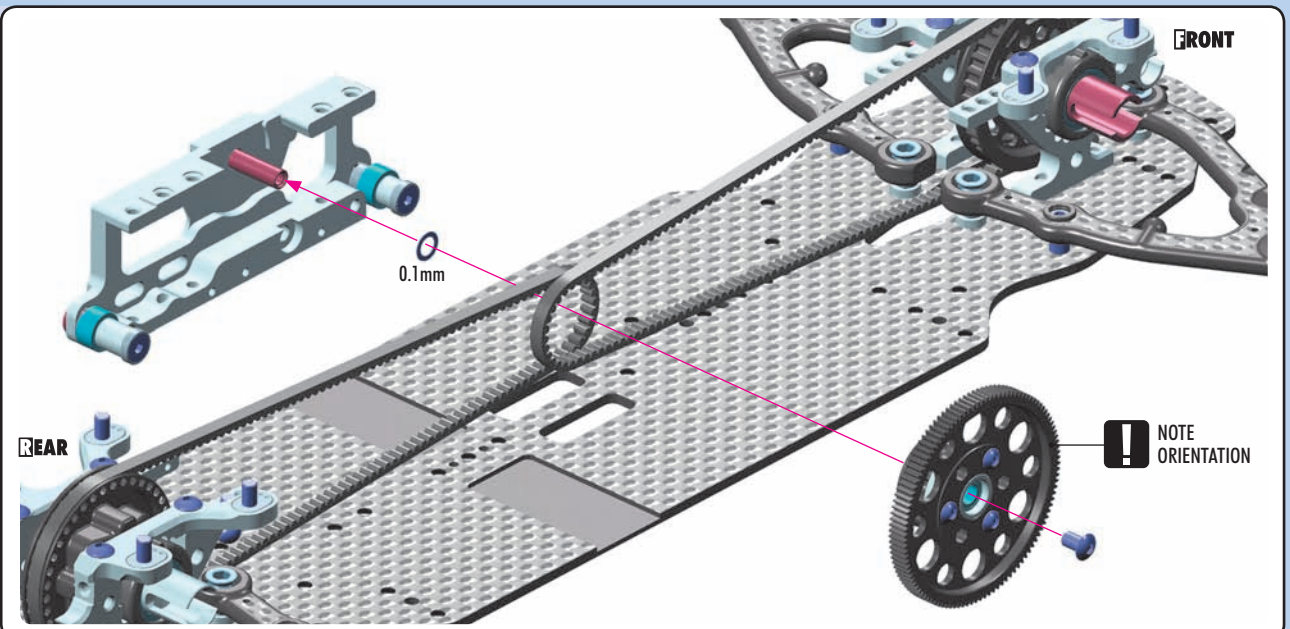


-  902305
SH M3x5
-  962042
S 4x6x0.1

 VIDEO TECH TIP



BELT TENSION ADJUSTMENT



0.1mm

FRONT

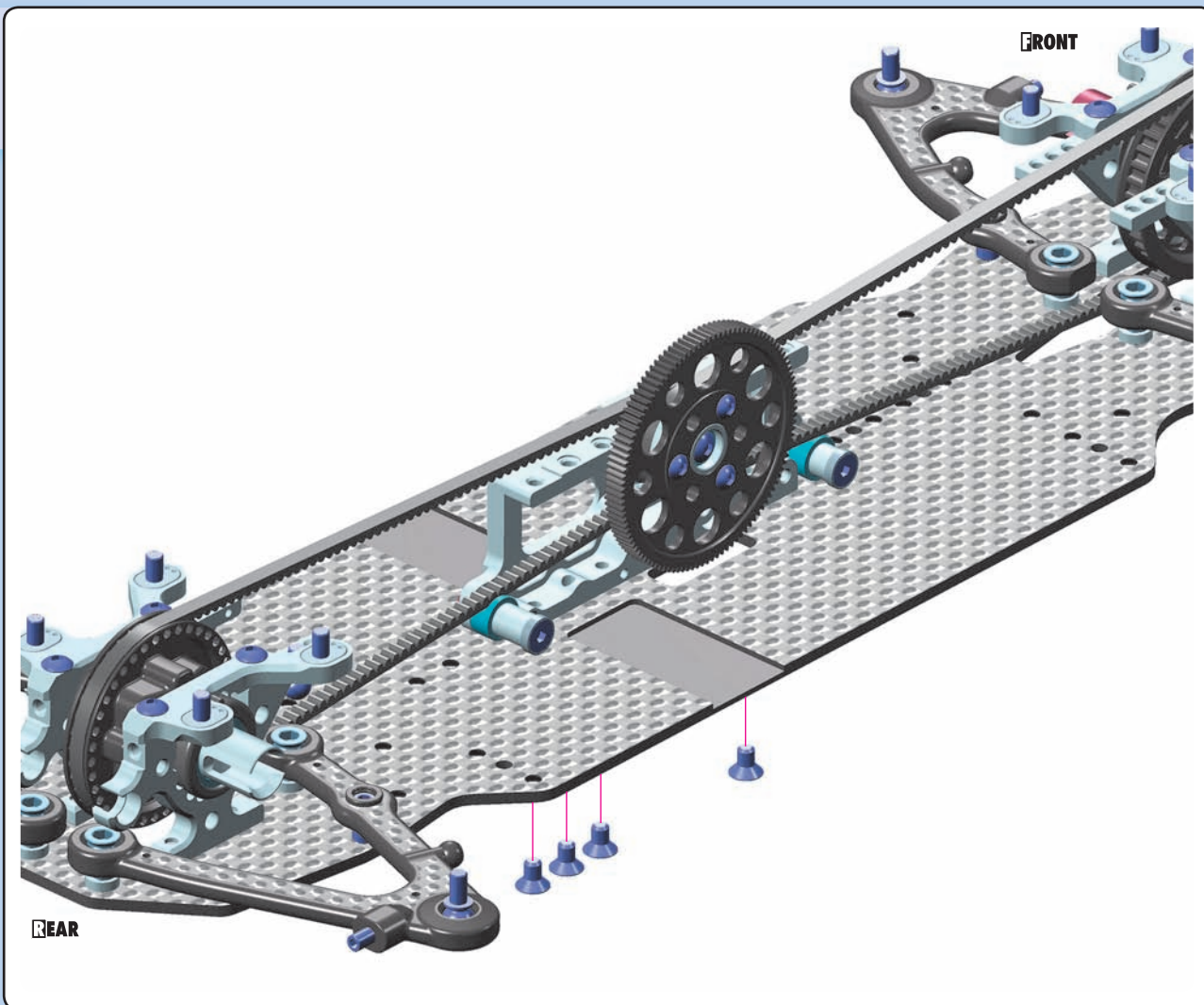
REAR

! NOTE ORIENTATION

3. CENTRAL TRANSMISSION



903305
SFH M3x5



MOTOR MOUNT FLEX ADJUSTMENT

The motor mount is part of the chassis flex adjustment. Adding or removing screws from the mount will create different flex settings for different tracks and traction levels.

NOTE: When removing screws from the motor mount, the spur gear becomes more susceptible to breakage in crashes.

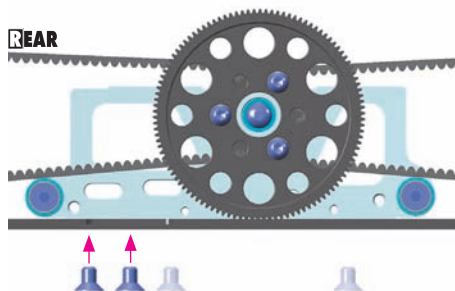


▶ VIDEO TECH TIP

MOTOR MOUNT FLEX

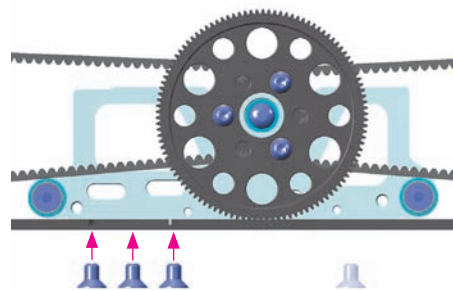
SOFT (INITIAL SETTING)

Use only the 2 rearmost screws to attach the motor mount (as shown). Do not install the 2 screws immediately in front of & behind the spur gear. This allows the chassis to flex more in the central area, and will improve traction (especially on-power). Rear grip will be improved through the entire corner, but initial reaction will decrease. This setting is recommended for low- to medium-traction conditions, both on carpet and asphalt.



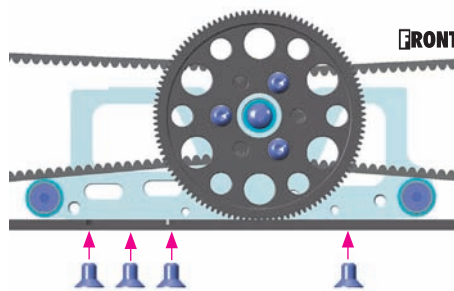
MEDIUM

Use only the 3 rearmost screws to attach the motor mount (as shown); do not install the very front screw. This gives a good compromise between stability and initial response. The car will have more rear grip than the full stiff setting, but will not be as stable as the soft setting.



STIFF

Using all screws to attach the motor mount (as shown) will give the best steering response, but with the least mechanical traction. The car will have more cornering speed, but will be more difficult to drive. Mainly recommended for high-traction carpet conditions.



3. CENTRAL TRANSMISSION



303121-K
SHIM 3x6x0.5

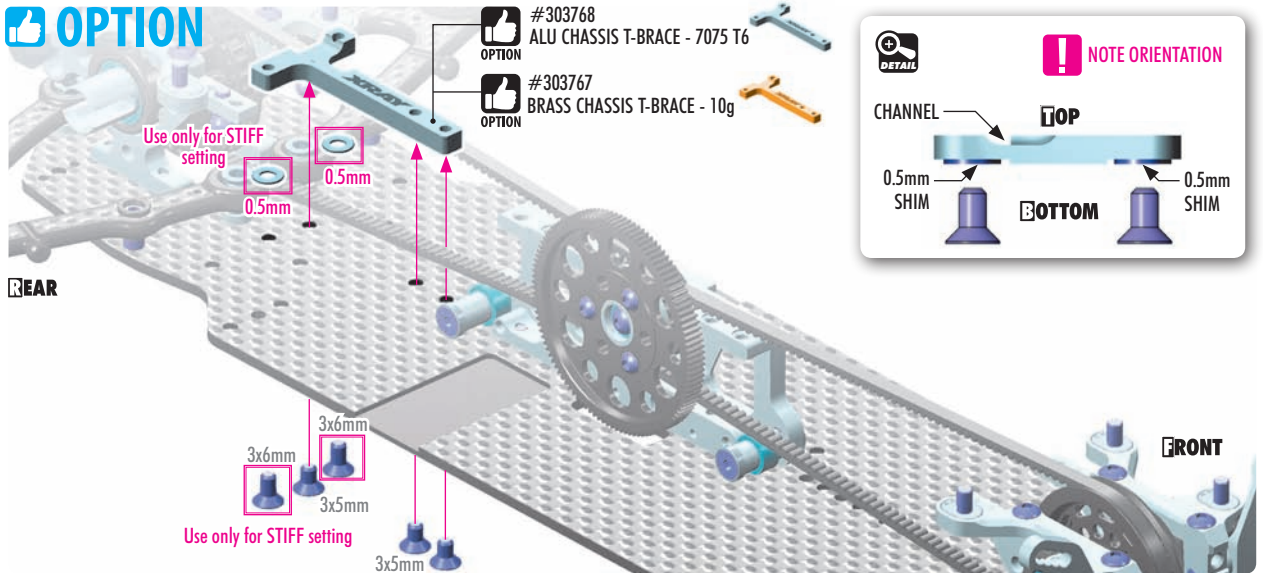


903305
SFH M3x5



903306
SFH M3x6

OPTION



CHASSIS FLEX ADJUSTMENT

The brace provides chassis flex adjustment possibilities depending on which screws are connected.

SOFT - NO BRACE

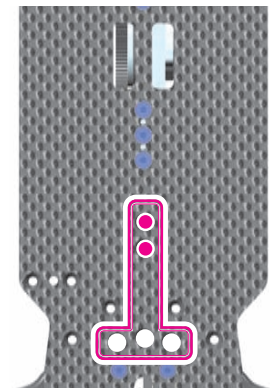
When the brace is not installed, the car will have the most steering and rotation. However, the car will be more difficult to drive as it is less stable. Recommended for medium-high traction conditions and for small, technical tracks with many hairpin corners.



REAR

SOFT - MEDIUM

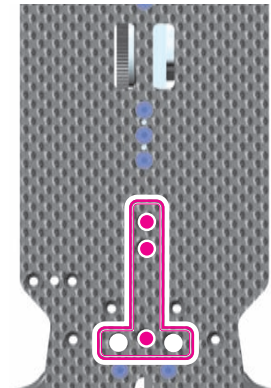
Install the brace using only the 2 forward bottom centerline screws (as shown). This gives improved on-power stability but still offers great off-power steering and rotation. Recommended for medium-high traction conditions and for small, technical tracks with many hairpin corners.



REAR

MEDIUM

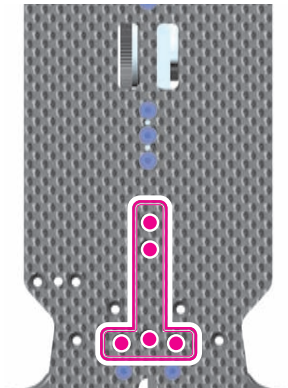
Install the brace using all 3 bottom centerline screws (as shown). This gives improved on-power stability and traction, but makes the car push more off-power. Recommended for low- or high-traction conditions where stability and traction is needed.



REAR

STIFF

In addition to installing all 3 bottom centerline screws, also install the 2 rear side screws but with 0.5mm shims between the brace and the chassis. This setting gives maximum stability.



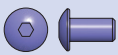
REAR



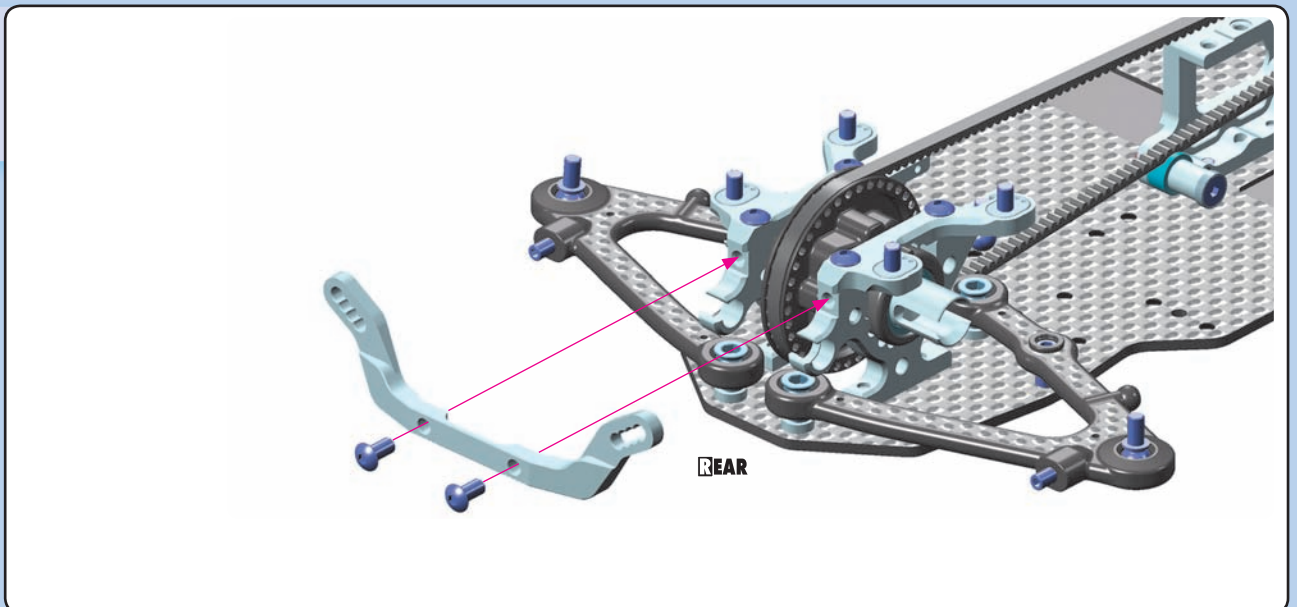
VIDEO TECH TIP



CHASSIS & TOP DECKS



902306
SH M3x6



3. CENTRAL TRANSMISSION



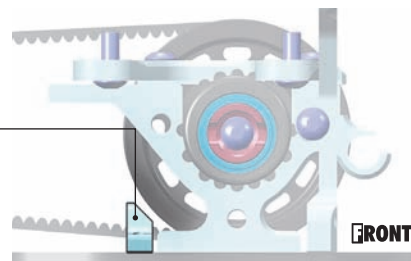
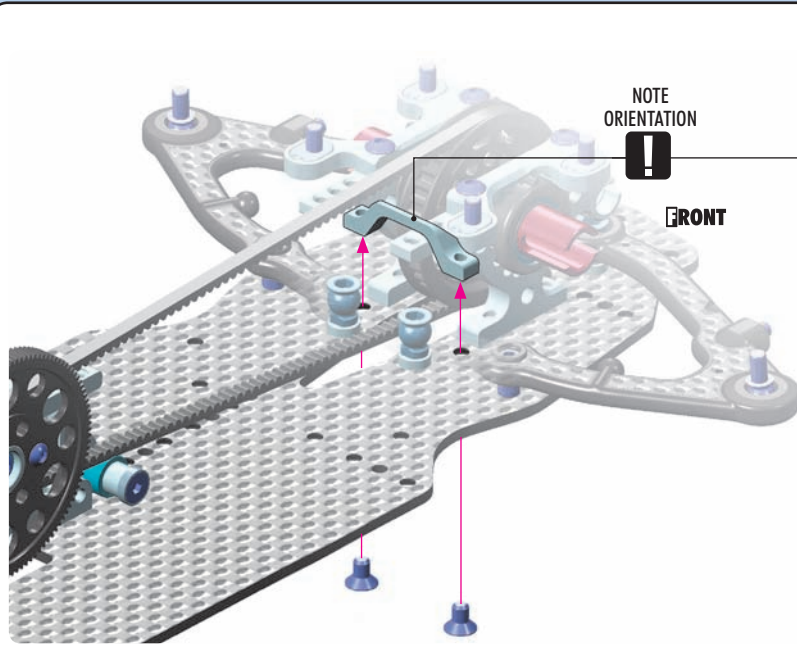
903305
SFH M3x5



VIDEO TECH TIP

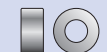


CHASSIS & TOP DECKS



FRONT CROSS BRACE

The cross brace reduces front chassis flex and improves steering response. Recommended for most conditions EXCEPT for higher-traction conditions or high-speed tracks where a smoother steering response is preferred.



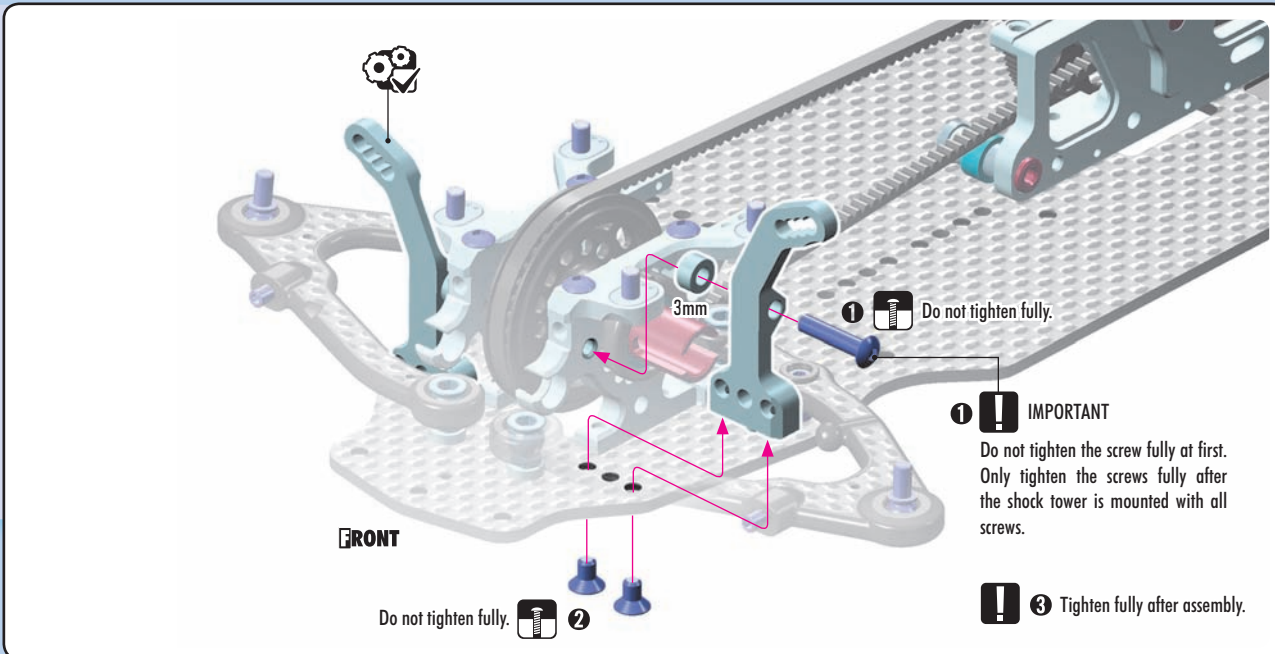
303125-K
SHIM 3x6x3



902314
SH M3x14



903305
SFH M3x5

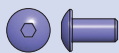


1 Do not tighten fully.

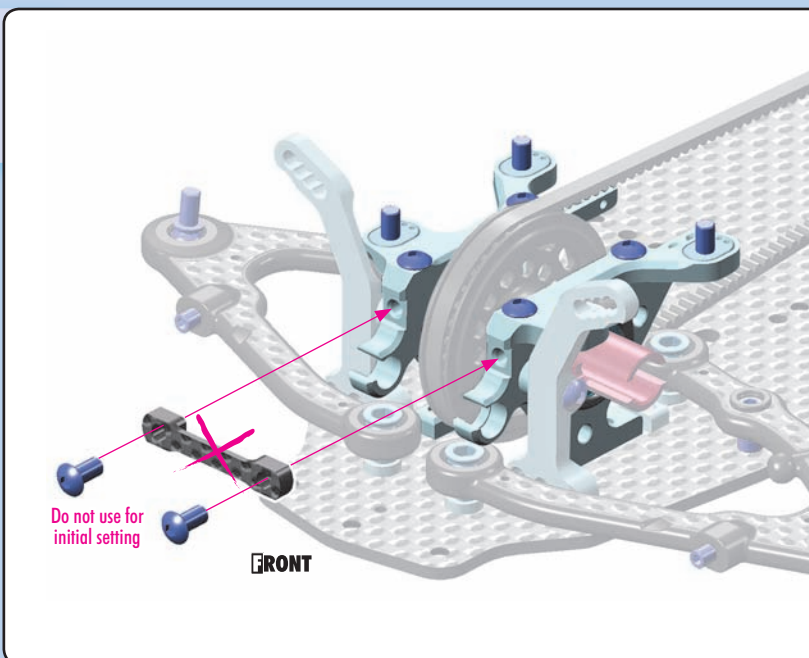
IMPORTANT

Do not tighten the screw fully at first. Only tighten the screws fully after the shock tower is mounted with all screws.

2 Tighten fully after assembly.



902306
SFH M3x6



FRONT BULKHEADS GRAPHITE BRACE

This graphite brace reduces flex in the front of the car. The brace will increase initial steering response but will reduce grip from mid corner to exit. The brace is recommended for any conditions that benefit from aggressive initial response and is more precise to drive. The brace also increases stability on bumpy tracks.

The initial setting is to run without this brace.

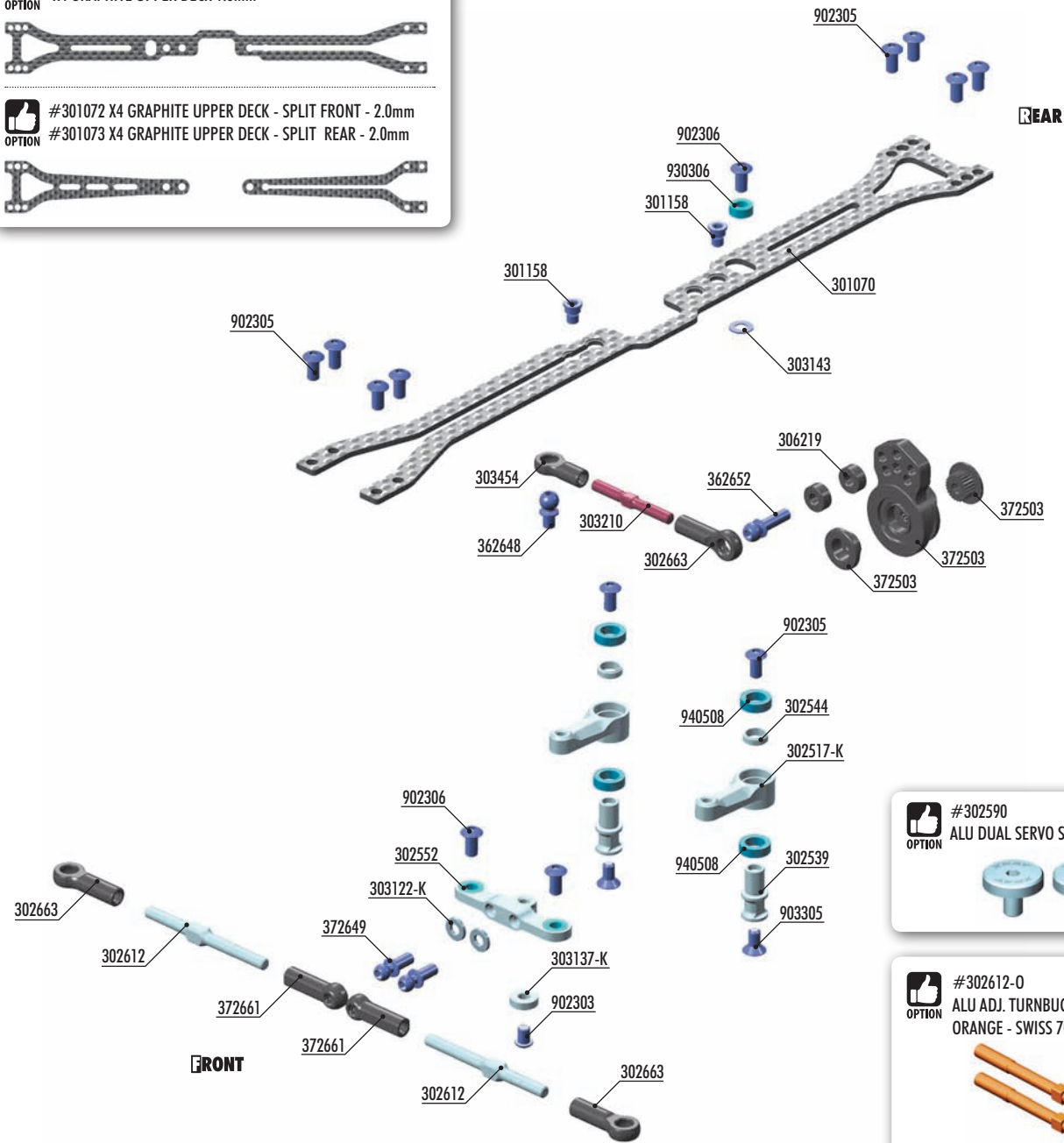
4. STEERING



#301071
X4 GRAPHITE UPPER DECK 1.6mm



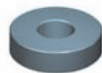
#301072 X4 GRAPHITE UPPER DECK - SPLIT FRONT - 2.0mm
#301073 X4 GRAPHITE UPPER DECK - SPLIT REAR - 2.0mm



#302571
X4 GRAPHITE STEERING PLATE SET



#303138-K or 303138-O
ALU SHIM 3x7x2.0mm (10)



#302664
COMPOSITE BALL JOINT 4.9mm
UNIDIRECTIONAL - OPEN (4)



#302590
ALU DUAL SERVO SAVER SCREW M3x7 (2)



#302612-0
ALU ADJ. TURNBUCKLE M3 L/R 39mm
ORANGE - SWISS 7075 T6 (2)



#302610
ADJ. TURNBUCKLE L/R 39mm
HUDY SPRING STEEL™ (2)



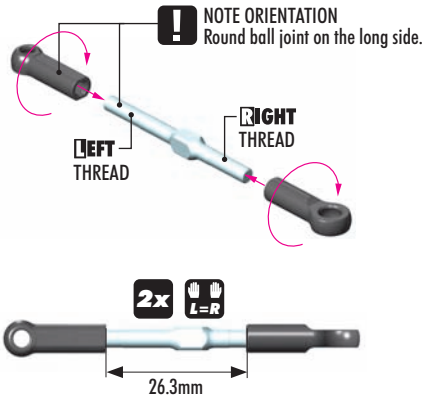
BAG

04

- 301070 X4 GRAPHITE UPPER DECK 2.0MM
- 301158 TOP DECK HEX SCREW M3x5.5 - HUDY SPRING STEEL™ (2)
- 302517-K X4 ALU DUAL STEERING ARM - BLACK + BALL-BEARINGS (2)
- 302539 X4 ALU STEERING POST FOR DUAL SERVO SAVER (2)
- 302544 ALU SHIM FOR RADIAL PLAY ADJUSTMENT OF STEERING ARM (2)
- 302552 ALU STEERING PLATE 8.0MM FOR DUAL SERVO SAVER
- 302612 ALU ADJ. TURNBUCKLE M3 L/R 39 MM - SWISS 7075 T6 (2)
- 302663 COMPOSITE BALL JOINT 5 MM - OPEN - V2 (8)
- 303122-K ALU SHIM 3x6x1.0MM - BLACK (10)
- 303137-K ALU SHIM 3x7.5x2.0MM - BLACK (10)
- 303143 ALU SHIM 3x5x0.25MM (10)
- 303210 REAR TURNBUCKLE L/R 26 MM - HUDY SPRING STEEL (2)
- 303454 BALL JOINT 4.9MM - OPEN (4)

- 306219 COMPOSITE SET OF SERVO SHIMS (4)
- 362648 BALL END 4.9MM WITH THREAD 4MM (2)
- 362652 BALL END 4.9MM WITH THREAD 10MM (2)
- 372503 COMPOSITE SERVO SAVER - X-STIFF - SET - V2
- 372649 BALL END 4.2MM WITH 4MM THREAD (2)
- 372661 COMPOSITE STEERING BALL-JOINT OPEN 4.2 MM (4)
- 902303 HEX SCREW SH M3x4 SMALL HEAD - STAINLESS (10)
- 902305 HEX SCREW SH M3x5 (10)
- 902306 HEX SCREW SH M3x6 (10)
- 903305 HEX SCREW SFH M3x5 (10)
- 930306 BALL-BEARING 3x6x2.5 STEEL-SEALED - OILED (2)
- 940508 BALL-BEARING 5x8x2.5 RUBBER-SEALED - OILED (2)

2x STEERING LINKS



OPTION #302612-0
ALU ADJ. TURNBUCKLE M3 L/R
39mm ORANGE - SWISS 7075 T6 (2)

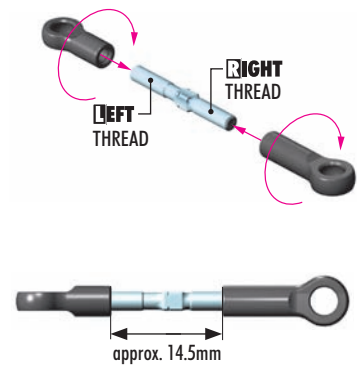


OPTION #302610
ADJ. TURNBUCKLE L/R 39mm
HUDY SPRING STEEL (2)



SERVO LINK

Adjust servo link to fit your servo.



303137-K
SHIM 3x7.5x2



902303
SH M3x4

902306
SH M3x6



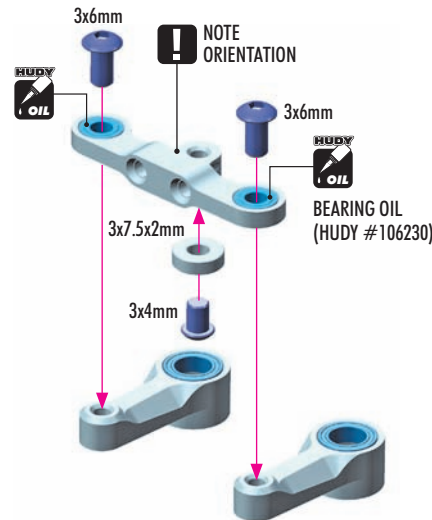
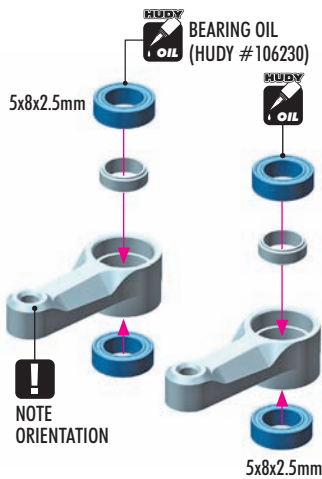
940508
BB 5x8x2.5



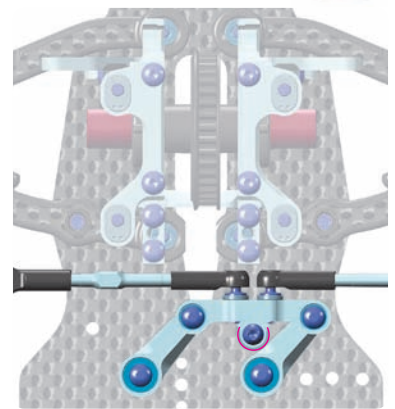
VIDEO TECH TIP



STEERING SYSTEM



OPTION #303138-K or 303138-O
ALU SHIM 3x7x2.0mm (10)



The steering lock is adjusted by the size of the shim which attaches to the bottom of the steering. The kit includes a 7.5mm OD shim, which limits the physical steering lock to approx. 26 degrees.

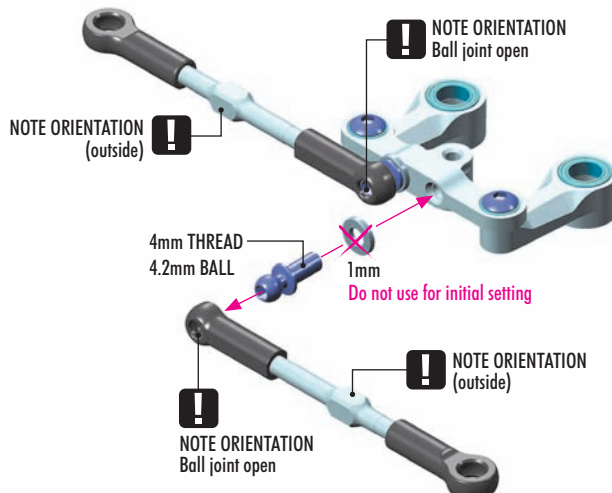
An optional 7mm shim is offered, to be able to achieve 28 degrees of steering lock.

Running no shim will allow up to 30 degrees of steering lock. More steering lock will increase steering, especially in tight corners, but it will also reduce cornering speeds, and will make the car more difficult to drive.



303122-K
SHIM 3x6x1

2x L=R



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



4. STEERING

IO

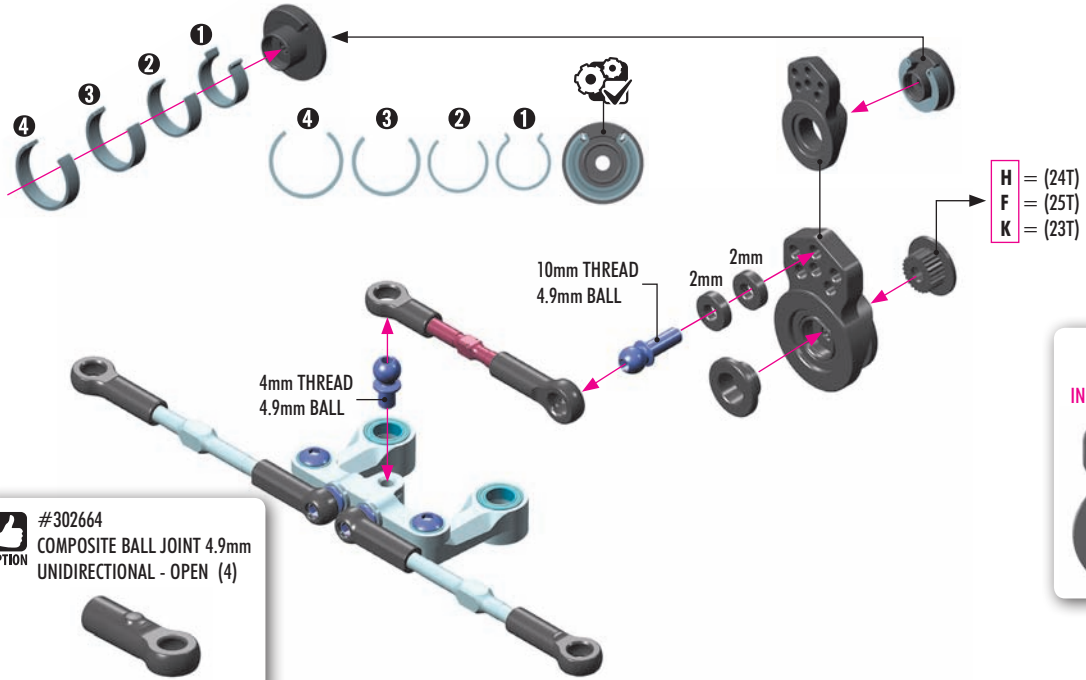
306219
SHIM 3x6x2



VIDEO TECH TIP



STEERING SYSTEM



#302664
COMPOSITE BALL JOINT 4.9mm
UNIDIRECTIONAL - OPEN (4)



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



ALU SERVO HORNS - OFFSET

#293491	KO, Sanwa - 23T
#293492	Hitec - 24T
#293493	Futaba - 25T

CLAMP ALU SERVO HORNS - OFFSET

#293401	KO, Sanwa - 23T
#293402	Hitec - 24T
#293403	Futaba - 25T



HUDY ALU SERVO HORNS

#293497	KO, Sanwa - 23T
#293498	Hitec - 24T
#293499	Futaba - 25T

HUDY CLAMP ALU SERVO HORNS

#293404	KO, Sanwa - 23T
#293405	Hitec - 24T
#293406	Futaba - 25T



HUDY ALU SERVO HORNS

#293501	KO, Sanwa - 23T
#293502	Hitec - 24T
#293503	Futaba - 25T

HUDY CLAMP ALU SERVO HORNS

#293407	KO, Sanwa - 23T
#293408	Hitec - 24T
#293409	Futaba - 25T

IMPORTANT!

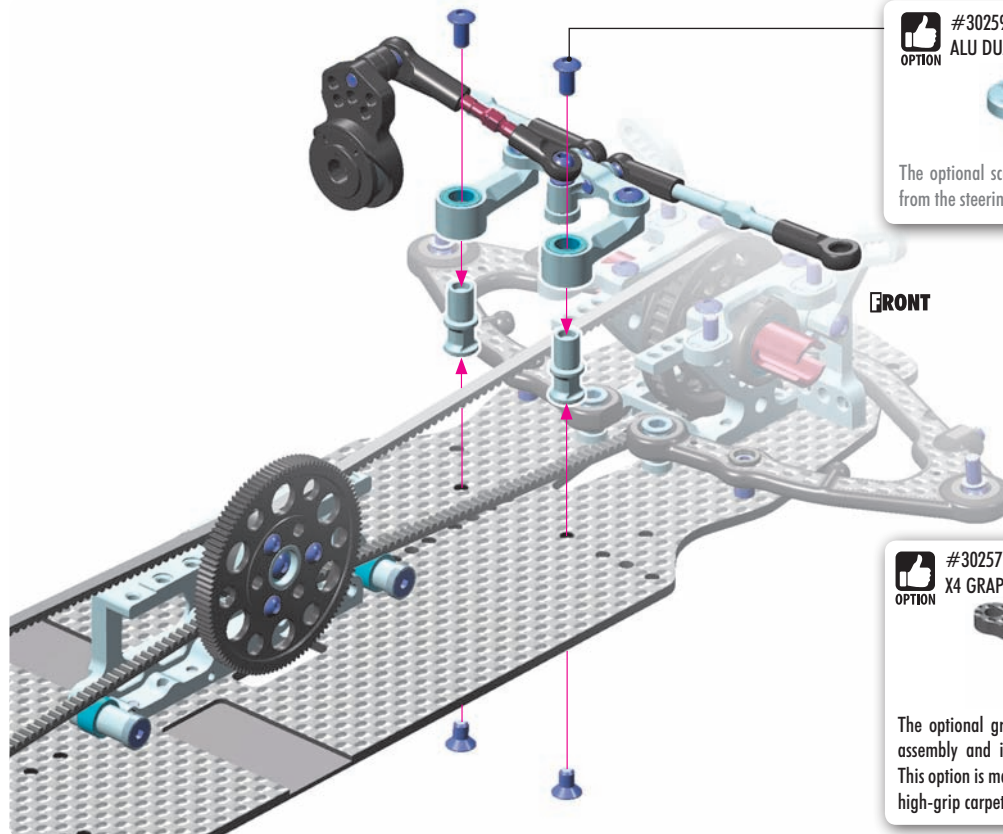
When an aluminum horn is used, the steering servo saver is not used. This increases the risk of breaking the servo in serious crashes.



902305
SH M3x5



903305
SFH M3x5



#302590
ALU DUAL SERVO SAVER SCREW M3x7 (2)



The optional screw removes excessive radial play from the steering.



#302571
X4 GRAPHITE STEERING PLATE SET



The optional graphite bridge stiffens the steering assembly and improves initial steering response. This option is mainly recommended for medium - to high-grip carpet racing.



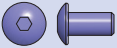
301158
SCREW 3x5.5



303143
SHIM 3x5x0.25



902305
SH M3x5



902306
SH M3x6



930306
BB 3x6x2.5

TOP DECK FLEX SETTINGS

The new feature of the top deck is the flex setting adjustment. There are three different flex setting alternatives.

SOFT	SOFT-MEDIUM <i>(INITIAL SETTING)</i>	MEDIUM	STIFF
No bushing or bearing is used. This allows maximum flex and provides maximum steering. However, the car is less stable on-power.	The top deck is connected to the motor mount via ball bearing. This setting eliminates a bit of steering but improves stability.	The top deck is connected to the motor mount via special 3x5.5mm screw in the rear, behind the layshaft. This setting eliminates a bit of steering but improves stability.	The top deck is connected to the motor mount via special screws M3x5.5mm behind and in front of layshaft. This setting provides maximum stability.



VIDEO TECH TIP



TOP DECK FLEX

#301073
OPTION X4 GRAPHITE UPPER DECK - SPLIT REAR - 2.0mm

#301072
OPTION X4 GRAPHITE UPPER DECK - SPLIT FRONT - 2.0mm

(INCLUDED) - #301070 X4 GRAPHITE TOP DECK 2.0mm

#301071 X4 GRAPHITE TOP DECK 1.6mm
OPTION We recommend using optional 1.6mm top deck for super-low traction conditions or in combination with aluminum chassis to get more overall traction and steering.

IMPORTANT
Do not use all screws, please select one of the flex setting options as described above.

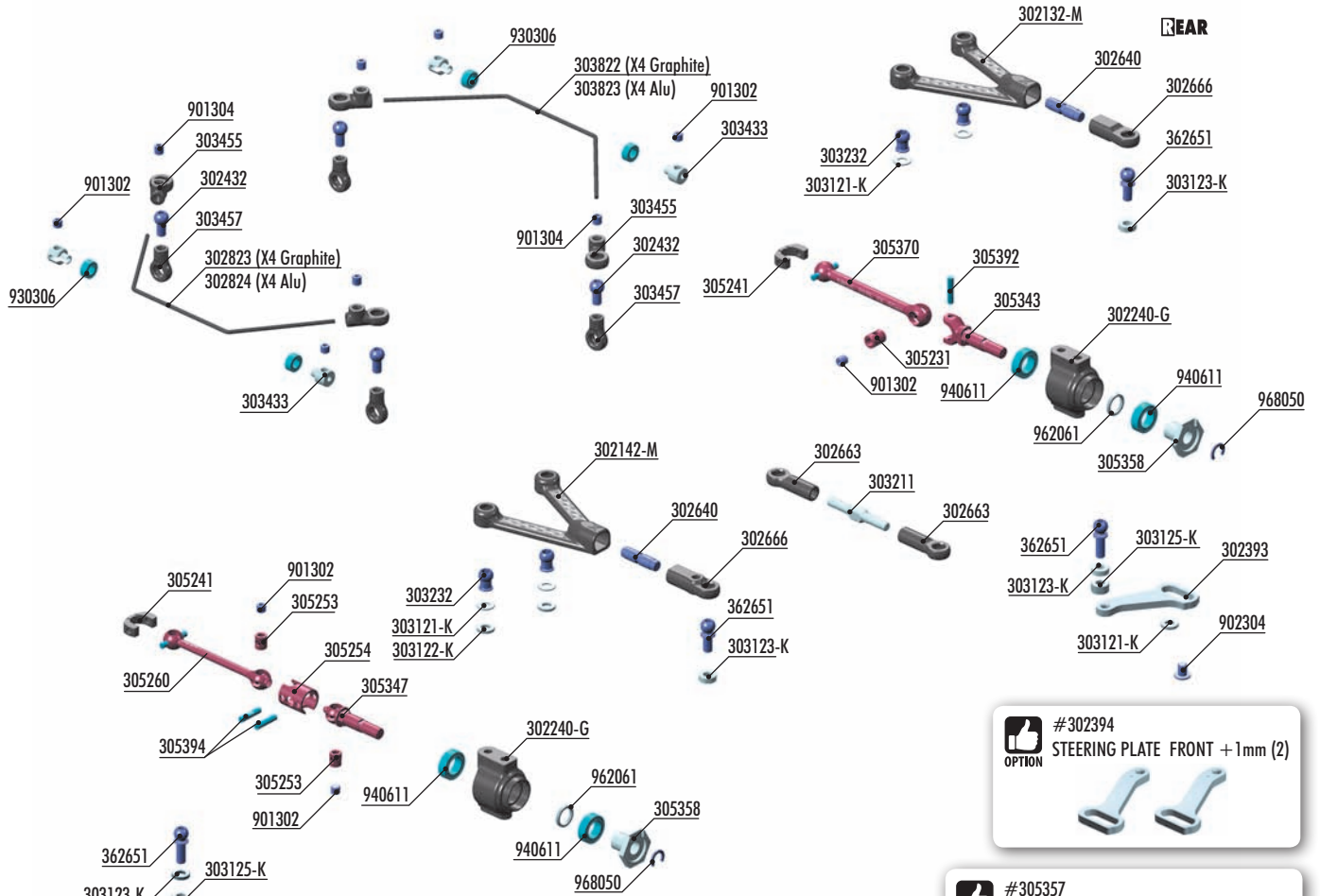


TOP DECK (SPLIT) FLEX SETTINGS

The new feature of the split top deck is the flex setting adjustment. There are three different flex setting alternatives.

SOFT	MEDIUM	STIFF
This allows maximum flex and provides maximum steering. However, the car is less stable on-power.	This setting gives reduced rear flex which increases stability. Rotation is decreased.	This setting gives reduced flex both in front and rear. Mid-corner steering is decreased, rotation is decreased. This setting provides maximum stability.

5. FRONT & REAR SUSPENSION



FRONT

REAR

OPTION #302392 X4 ALU FRONT STEER. PLATE-SWISS 7075 T6-V2 (2)
 #302393 X4 ALU REAR ARS PLATE-SWISS 7075 T6-V2 (2)

OPTION #303211-0 ALU TURNBUCKLE L/R 30mm ORANGE
 - SWISS 7075 T6 (2)

OPTION #305242 DRIVE SHAFT REPLACEMENT CAP 3.5MM
 - ORANGE - STRONG (4)

OPTION **STEERING BLOCKS**

#	DESCRIPTION	INCLUDED
#302240-G	GRAPHITE	INCLUDED
#302241	ALU	OPTION

OPTION #302394 STEERING PLATE FRONT +1mm (2)

OPTION #305357 X4 ALU WHEEL HUB -0.5 SWISS 7075 T6 (2)

OPTION #305407 CVD BB DRIVE SHAFT 52mm - SET
 #305408 CVD BB DRIVE SHAFT 54mm - SET

#304972 #305407 #305408

OPTION #305306 ECS BB DRIVE SHAFT 58mm - SET
 #305307 ECS BB DRIVE SHAFT 59mm - SET

#305138 #305306 #305307

BAG
05

- 302132-M X4 COMPOSITE CFF™ CARBON-FIBER FUSION UPPER ARM - MEDIUM - FR/RL
- 302142-M X4 COMPOSITE CFF™ CARBON-FIBER FUSION UPPER ARM - MEDIUM - FL/RR
- 302240-G X4 COMPOSITE STEERING BLOCK - GRAPHITE
- 302392 X4 ALU FRONT STEERING PLATE - SWISS 7075 T6 (2)
- 302393 X4 ALU REAR ARS PLATE - SWISS 7075 T6 (2)
- 302432 STEEL BALL END 4.9MM WITH 4MM THREAD (2)
- 302640 ADJUSTABLE CAMBER SCREW 14MM M4 L/R - HUDY SPRING STEEL™ (2)
- 302663 COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8)
- 302666 COMPOSITE BALL JOINT 4.9MM F + R - OPEN (2+2)
- 302823 X4 ANTI-ROLL BAR - FRONT 1.3 MM
- 302824 X4 ANTI-ROLL BAR - FRONT 1.4 MM
- 303121-K ALU SHIM 3x6x0.5MM - BLACK (10)
- 303122-K ALU SHIM 3x6x1.0MM - BLACK (10)
- 303123-K ALU SHIM 3x6x2.0MM - BLACK (10)
- 303125-K ALU SHIM 3x6x3.0MM - BLACK (10)
- 303211 ALU ADJUSTABLE TURNBUCKLE L/R 30 MM - SWISS 7075 T6 (2)
- 303232 X4 UPPER ARM BALL UNIVERSAL 4.9MM - HUDY SPRING STEEL™ (2)
- 303433 ALU ANTI-ROLL BAR BUSHING - 6MM (2)
- 303455 COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9 MM (4)
- 303457 BALL JOINT 4.9MM - EXTRA SHORT OPEN (4)
- 303822 X4 ANTI-ROLL BAR - REAR 1.2 MM
- 303823 X4 ANTI-ROLL BAR - REAR 1.3 MM

- 305231 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
- 305241 DRIVE SHAFT REPLACEMENT CAP 3.5 MM (4)
- 305253 ECS DRIVE SHAFT COUPLING FOR 2MM PIN - HUDY SPRING STEEL™
- 305254 ECS (ES) DRIVE SHAFT CASE FOR 2MM PIN - HUDY SPRING STEEL™
- 305260 X4 ECS DRIVE SHAFT 58MM FOR 2MM PIN - HUDY SPRING STEEL™ (1)
- 305343 X4 DRIVE AXLE - LIGHTWEIGHT - HUDY SPRING STEEL™
- 305347 X4 ECS DRIVE AXLE FOR 2MM PIN - HUDY SPRING STEEL™
- 305358 X4 ALU WHEEL HUB - SWISS 7075 T6 (2)
- 305360 X4 ECS DRIVE SHAFT 58MM - HUDY SPRING STEEL™ - SET
- 305370 X4 ALU DRIVE SHAFT 54MM - SWISS 7075 T6 - HARD COATED
- 305392 DRIVE SHAFT PIN 2 x 10 WITH FLAT SPOT (2)
- 305394 ECS DRIVE SHAFT PIN 2 x 9 WITH FLAT SPOT (2)
- 362651 BALL END 4.9MM WITH THREAD 8MM (2)
- 901302 HEX SCREW SB M3x2.5 (10)
- 901304 HEX SCREW SB M3x4 (10)
- 902304 HEX SCREW SH M3x4 - STAINLESS (10)
- 930306 BALL-BEARING 3x6x2.5 STEEL-SEALED - OILED (2)
- 940611 BALL-BEARING 6x10x3 RUBBER SEALED - OIL (2)
- 962061 WASHER S 6x7.5x1.0 (10)
- 968050 C-CLIP 5 (10)

5. FRONT & REAR SUSPENSION



901302
SB M3x2.5

305392
P 2x10

305394
P 2x9

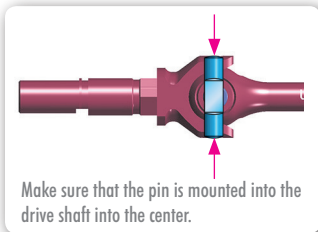
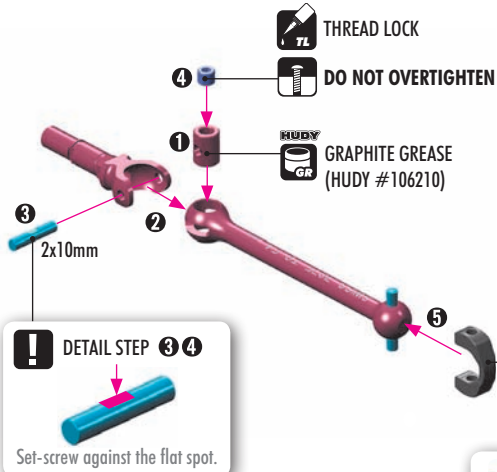


VIDEO TECH TIP

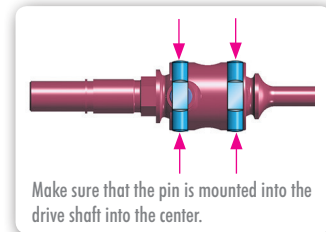
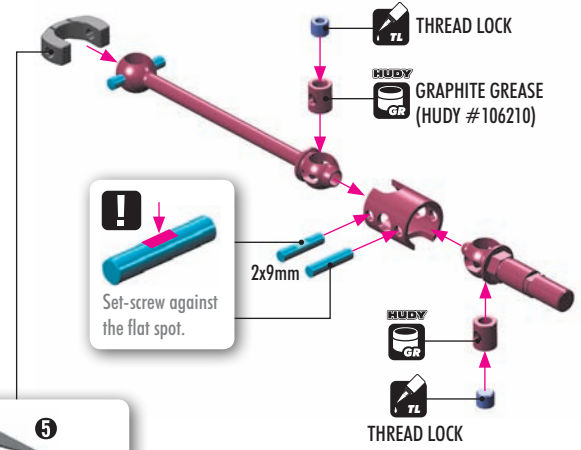


DRIVE SHAFTS

2x REAR TRANSMISSION - CVD DRIVE SHAFT



2x FRONT TRANSMISSION - ECS DRIVE SHAFT



REAR CVD DRIVE SHAFTS		
#305370	54mm - CVD	INCLUDED
#305407	52mm - BB CVD	OPTION
#305408	54mm - BB CVD	OPTION



FRONT ECS DRIVE SHAFTS		
#305360	58mm - ECS	INCLUDED
#305306	58mm - BB ECS	OPTION
#305307	59mm - BB ECS	OPTION

Longer driveshafts 59mm Front / 54mm Rear make the car easier to drive by creating more traction and better stability, felt mostly in chicanes. However, the car will also understeer more than when using the shorter 58mm Front / 52mm Rear driveshafts that create more steering and make the car more aggressive. Both left and right should ALWAYS be the same length at each end of the car (FL = FR; RR = RL).

59mm Front / 54mm Rear shafts are recommended for **carpet** tracks and **large asphalt** tracks.
58mm Front / 52mm Rear shafts are recommended for **low-traction** or **tight asphalt** tracks.



#305407 CVD BB DRIVE SHAFT 52mm - SET
#305408 CVD BB DRIVE SHAFT 54mm - SET



The CVD bearing driveshafts improve off-power steering and rotation, but decrease rear traction and stability. Recommended for use in high-traction conditions, and for tracks with many hairpin corners.

The new ball-bearing driveshafts must be used with optional:
#304972 ALU GEAR DIFF CVD BB DRIVESHAFT ADAPTER - SWISS 7075 T6 (2)



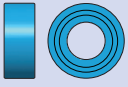
#305306 ECS BB DRIVE SHAFT 58mm - SET
#305307 ECS BB DRIVE SHAFT 59mm - SET



The optional ECS ball-bearing driveshafts feature a new ball-bearing assembly at the inner end of the driveshaft where it inserts into the outdrive. The friction between the driveshaft and the outdrive is greatly reduced, which gives smoother handling especially on fast direction changes such as chicanes. The reduced friction also helps to increase cornering speeds.

The new ball-bearing driveshafts must be used with optional:
#305138 SOLID AXLE ECS BB DRIVESHAFT ADAPTER - HUDY SPRING STEEL™ (2)

5. FRONT & REAR SUSPENSION



940611
BB 6x10x3



962061
S 6x7.5x1



968050
CS

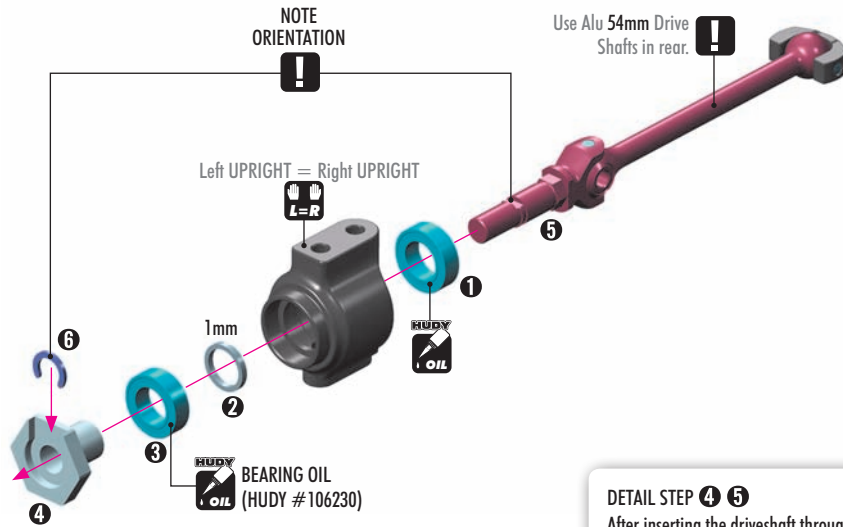


VIDEO TECH TIP



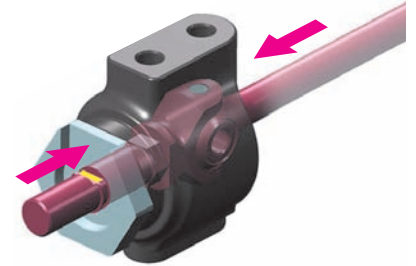
FRONT & REAR UPRIGHTS

2x REAR TRANSMISSION



DETAIL STEP 4 5

After inserting the driveshaft through the wheel hub, push both sides to ensure they are properly aligned.

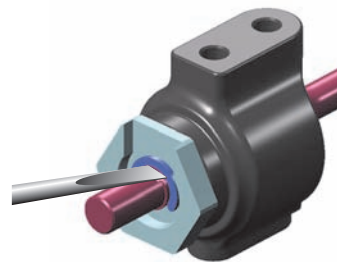
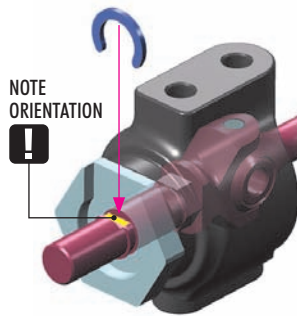


DETAIL STEP 6

INSTALL the C-CLIP with Combination pliers Tool (HUDY #189020).

Before installing the C-clip, make sure that the slot on the axle is in the line with the cut out on the hex.

REMOVE the C-CLIP with Screwdriver Tool 3.0mm (HUDY #153055).



OFFSET WHEEL SHIMS

OPTION	#305380	0.75mm	OPTION
	#305382	0.5mm	OPTION
	#305381	1.0mm	OPTION



To adjust the width of the car, optional wheel shims can be quickly added or removed.

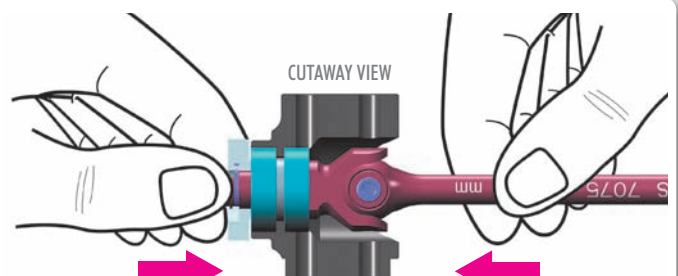


#305357
X4 ALU WHEEL HUB -0.5mm SWISS 7075 T6 (2)



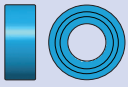
STEERING BLOCKS

OPTION	#302240-G	GRAPHITE	INCLUDED
	#302241	ALU	OPTION



After inserting the clip, push both sides again to ensure that there is sufficient axial play.

5. FRONT & REAR SUSPENSION



940611
BB 6x10x3

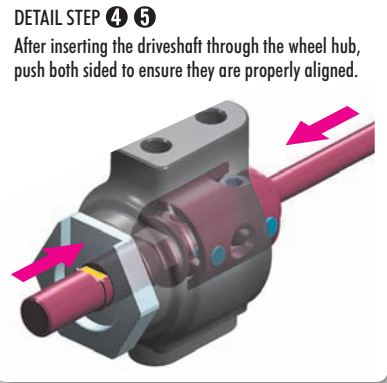
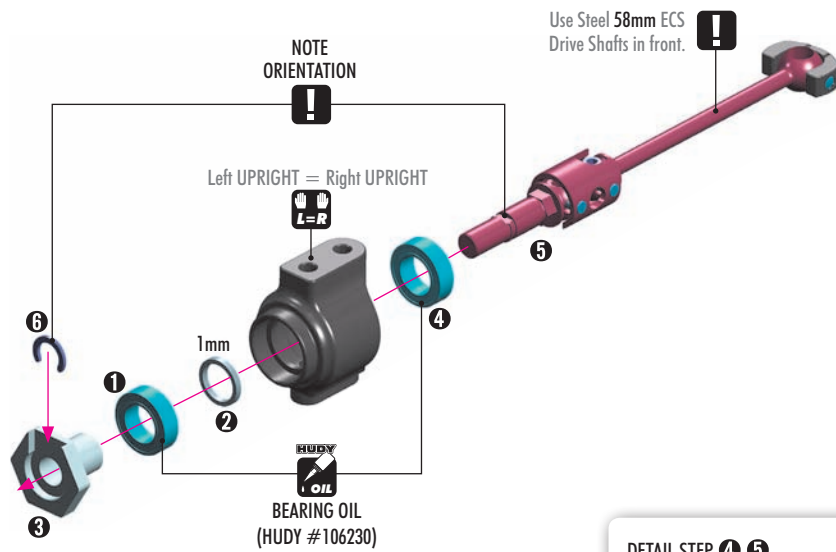


962061
S 6x7.5x1



968050
C5

2x FRONT TRANSMISSION



DETAIL STEP 6

INSTALL the C-CLIP with Combination pliers Tool (HUDY #189020).

Before installing the C-clip, make sure that the slot on the axle is in the line with the cut out on the hex.

REMOVE the C-CLIP with Screwdriver Tool 3.0mm (HUDY #153055).

NOTE ORIENTATION

OPTION

OFFSET WHEEL SHIMS			
#305380	0.75mm	OPTION	
#305382	0.5mm	OPTION	
#305381	1.0mm	OPTION	

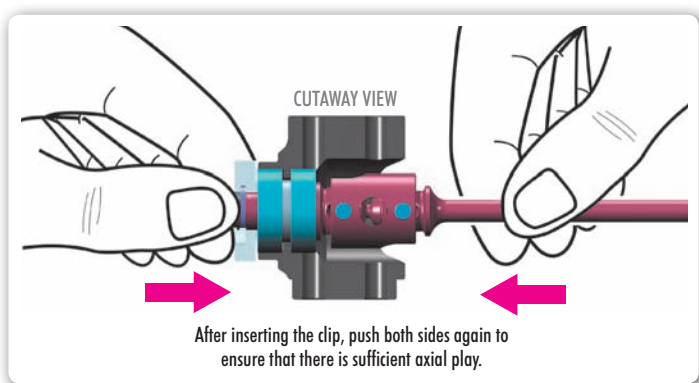
To adjust the width of the car, optional wheel shims can be quickly added or removed.

OPTION

#305357
X4 ALU WHEEL HUB -0.5mm SWISS 7075 T6 (2)

OPTION

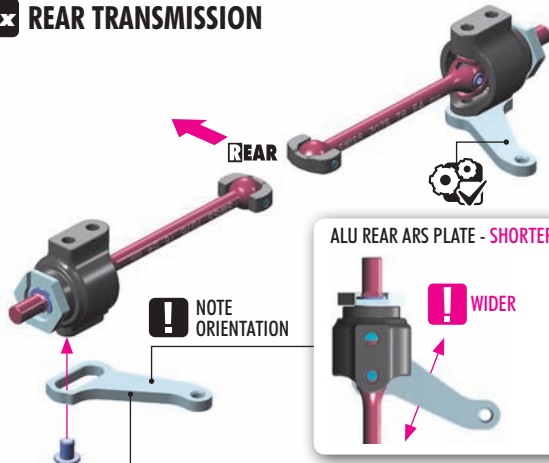
STEERING BLOCKS		
#302240-G	GRAPHITE	INCLUDED
#302241	ALU	OPTION



5. FRONT & REAR SUSPENSION

902304
SH M3x4

2x REAR TRANSMISSION



ALU REAR ARS PLATE - SHORTER

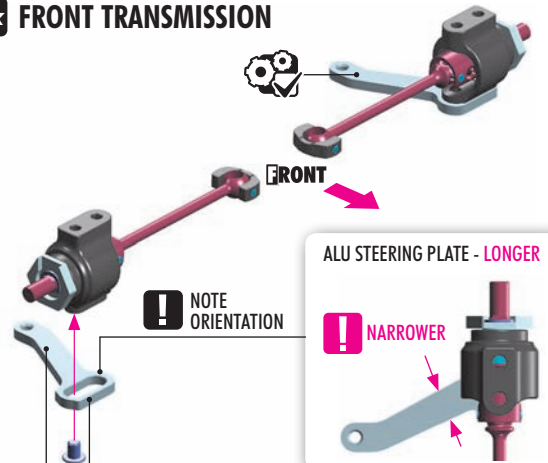
WIDER

NOTE ORIENTATION

#302392 - X4 ALU FRONT STEER. PLATE-SWISS 7075 T6-V2 (2)
OPTION #302393 - X4 ALU REAR ARS PLATE - SWISS 7075 T6 - V2 (2)

Use optional alu plates for increased durability.

2x FRONT TRANSMISSION



ALU STEERING PLATE - LONGER

NARROWER

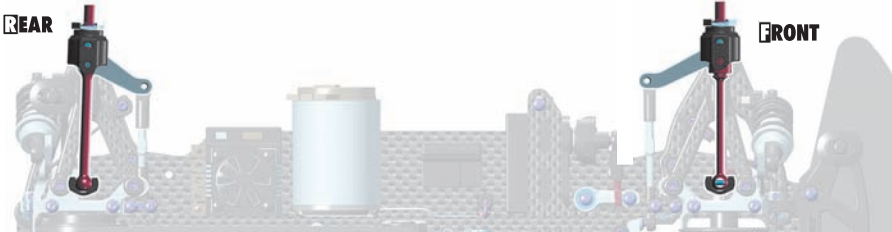
NOTE ORIENTATION

#302394
OPTION STEERING PLATE FRONT +1mm (2)

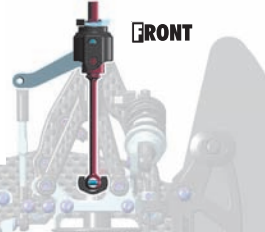


+1mm front steering arms are offered as an option, mainly recommended for high-traction carpet conditions such as black carpet. The +1mm arms have the linkage point moved 1mm outward, closer towards the wheel, meaning that the steering links are longer. The +1mm arms makes the steering a little less sensitive but more precise.

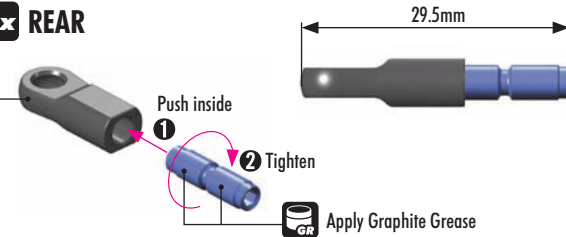
REAR



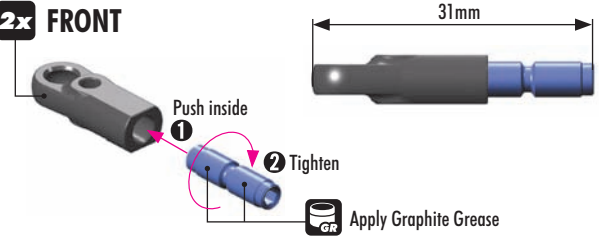
FRONT



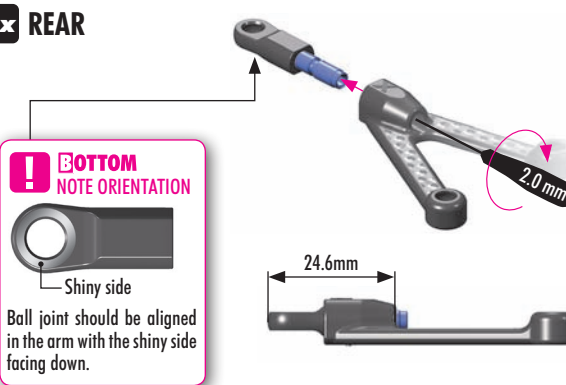
2x REAR



2x FRONT



2x REAR

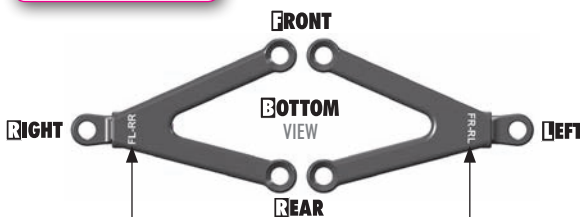


NOTE ORIENTATION



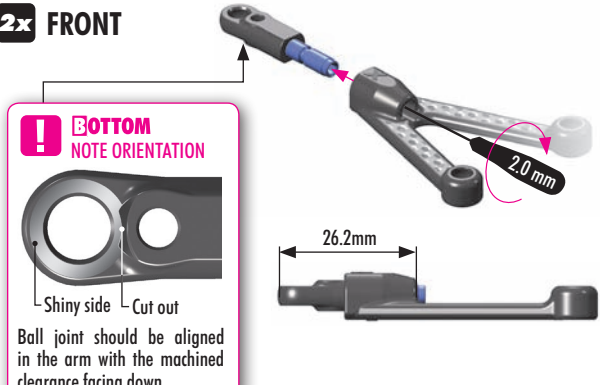
Shiny side

Ball joint should be aligned in the arm with the shiny side facing down.



Check arm orientation so that each arm is in the correct location with the markings facing down when installed.

2x FRONT



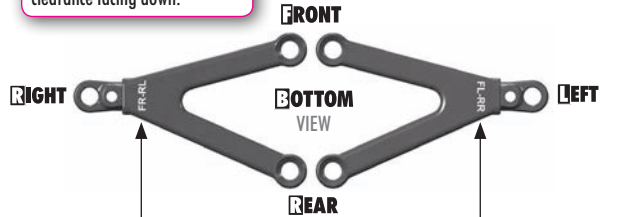
NOTE ORIENTATION



Shiny side

Cut out

Ball joint should be aligned in the arm with the machined clearance facing down.



Check arm orientation so that each arm is in the correct location with the markings facing down when installed.



VIDEO TECH TIP



CAMBER & UPPER ARMS

5. FRONT & REAR SUSPENSION



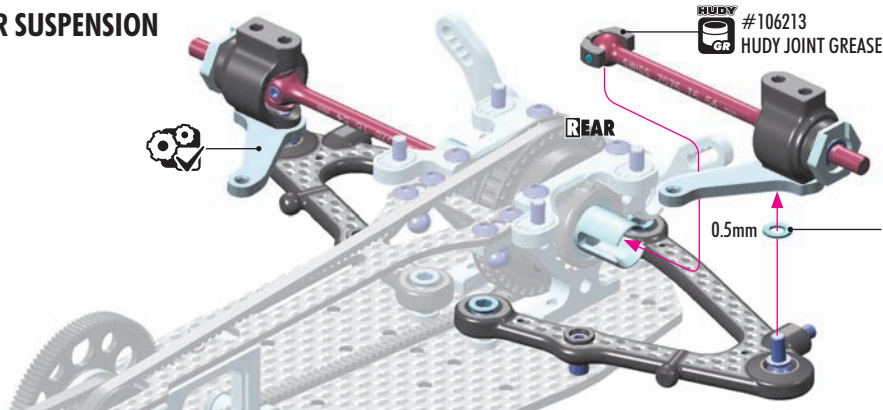
303121-K
SHIM 3x6x0.5

VIDEO TECH TIP



ROLL-CENTER

2x REAR SUSPENSION



Raising the rear axle height will free up the rear and improve rotation and off-power steering. Mainly recommended for medium- to high-traction asphalt surfaces. Minimum shim thickness is 0.5mm; do not use thinner.



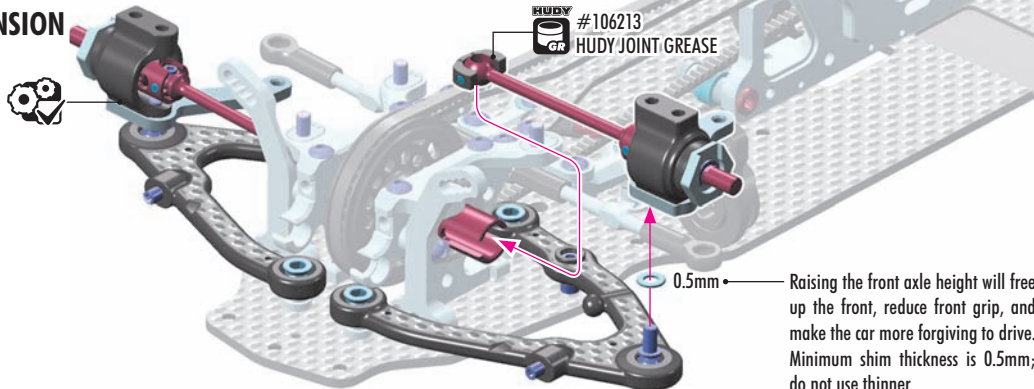
303121-K
SHIM 3x6x0.5

VIDEO TECH TIP



ROLL-CENTER

2x FRONT SUSPENSION



Raising the front axle height will free up the front, reduce front grip, and make the car more forgiving to drive. Minimum shim thickness is 0.5mm; do not use thinner.



303121-K
SHIM 3x6x0.5



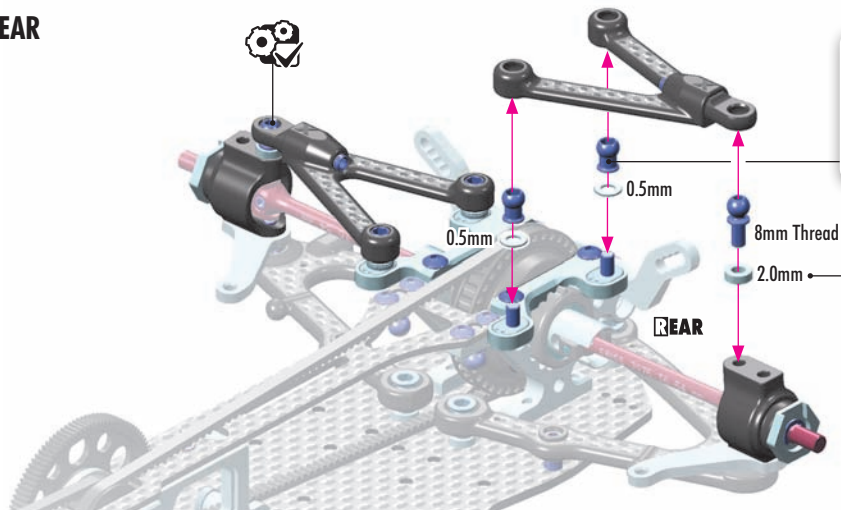
303123-K
SHIM 3x6x2

VIDEO TECH TIP



ROLL-CENTER

2x REAR



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



Rear upper arm location affects the rear roll-center and camber gain. Raising the arm with thicker shims on the upper clamps will lower the rear roll-center and decrease camber gain. Reducing the shim height on the upper clamps has the same effect as increasing the shim height on the outside.



303121-K
SHIM 3x6x0.5



303122-K
SHIM 3x6x1



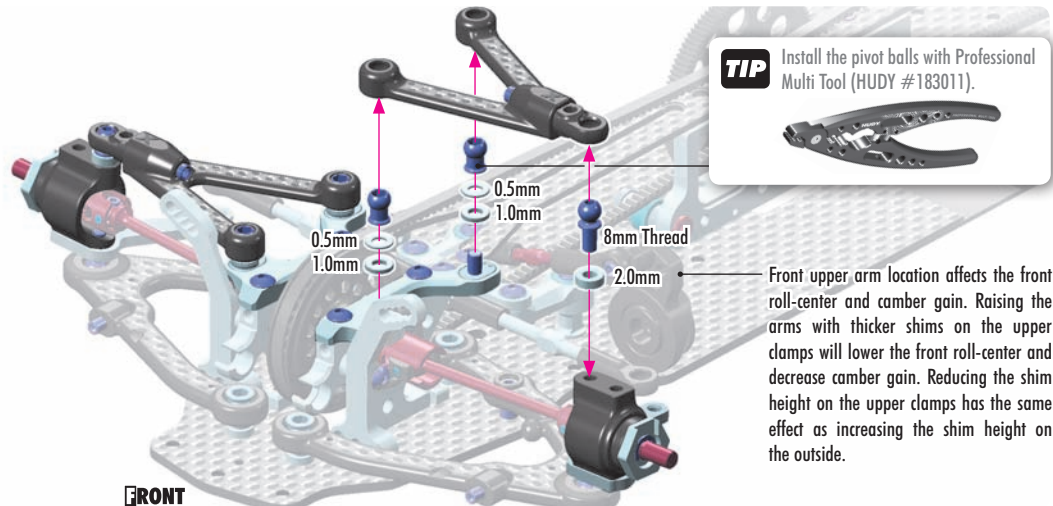
303123-K
SHIM 3x6x2

VIDEO TECH TIP



ROLL-CENTER

2x FRONT



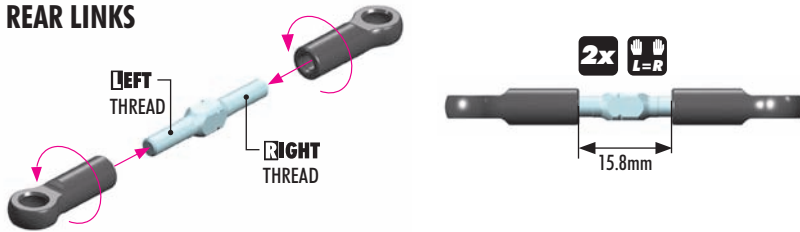
TIP Install the pivot balls with Professional Multi Tool (HUDY #183011).



Front upper arm location affects the front roll-center and camber gain. Raising the arms with thicker shims on the upper clamps will lower the front roll-center and decrease camber gain. Reducing the shim height on the upper clamps has the same effect as increasing the shim height on the outside.

5. FRONT & REAR SUSPENSION

2x REAR LINKS



#303211-O ALU TURNBUCKLE L/R
30mm ORANGE - SWISS 7075 T6 (2)

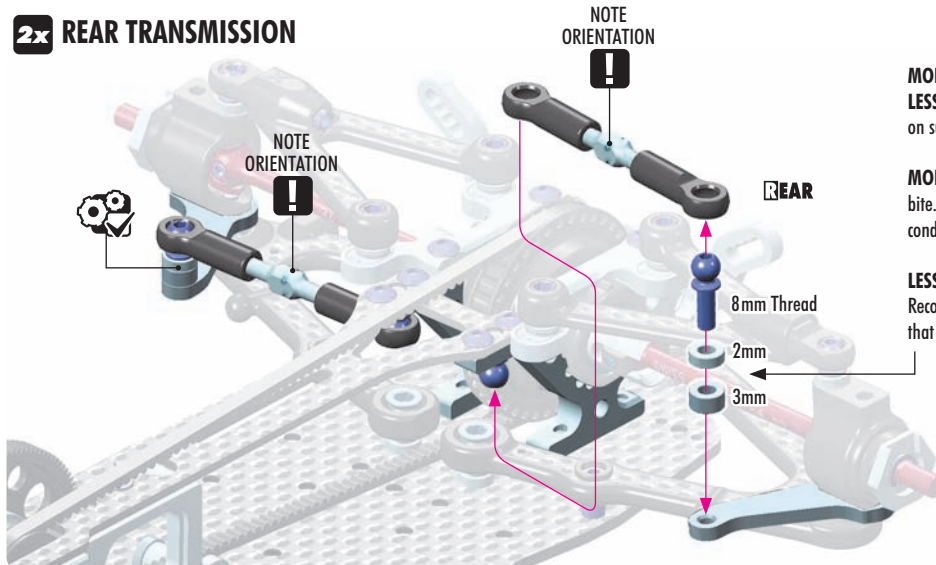


VIDEO TECH TIP



REAR TOE-GAIN

2x REAR TRANSMISSION



MORE SHIMS gives more toe-gain on compression.
LESS SHIMS gives less toe-gain (or even toe loss), on suspension compression.

MORE TOE-GAIN improves rear grip and side bite. Mainly recommended for low- to medium-grip conditions.

LESS TOE-GAIN reduces rear grip and side bite. Recommended for higher- grip conditions or tracks that require more steering.

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

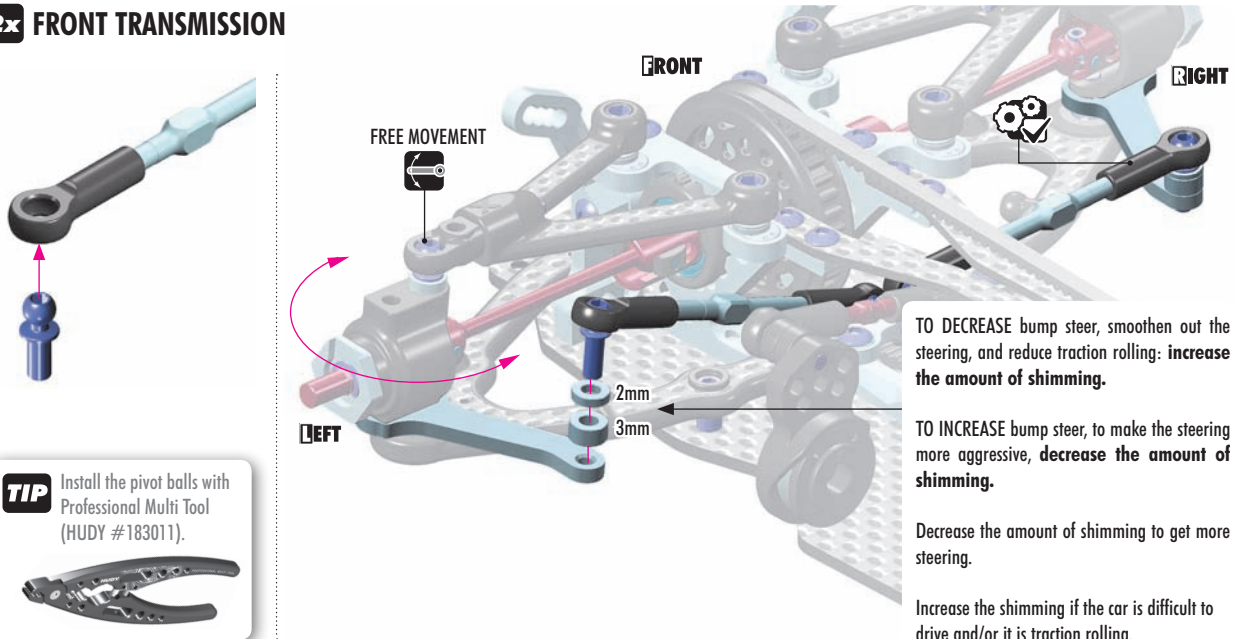


VIDEO TECH TIP



STEERING SYSTEM

2x FRONT TRANSMISSION



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

TO DECREASE bump steer, smoothen out the steering, and reduce traction rolling: **increase the amount of shimming.**

TO INCREASE bump steer, to make the steering more aggressive, **decrease the amount of shimming.**

Decrease the amount of shimming to get more steering.

Increase the shimming if the car is difficult to drive and/or it is traction rolling.

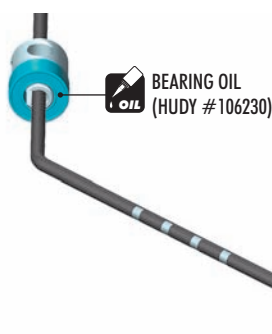


VIDEO TECH TIP



ANTI-ROLL BARS

2x FRONT & REAR ANTI-ROLL BARS



REAR ANTI-ROLL BARS		
#303821	1.1mm	OPTION
#303822	1.2mm	INCLUDED X4 Graphite
#303823	1.3mm	INCLUDED X4 Alu
#303824	1.4mm	OPTION

FRONT ANTI-ROLL BARS		
#302821	1.1mm	OPTION
#302822	1.2mm	OPTION
#302823	1.3mm	INCLUDED X4 Graphite
#302824	1.4mm	INCLUDED X4 Alu
#302825	1.5mm	OPTION

5. FRONT & REAR SUSPENSION

4x

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

4mm Thread

2.0mm

17mm

2x REAR TRANSMISSION

REAR

- 901302
SB M3x2.5
- 901304
SB M3x4

REAR TRANSMISSION

DETAIL

CENTER

TOP

REAR

Set the bar into the center, remove the play in the bushings, and tighten the set-screws fully.

3x4mm ④

3x2.5mm ④

3x2.5mm ④

3x4mm ④

REAR

SOFTER rear anti-roll bar:
Generates more side traction. Mainly recommended for low-grip asphalt tracks.

STIFFER rear anti-roll bar:
Helps the car stay flatter and reduces traction rolling on high-grip surfaces.

VIDEO TECH TIP

ANTI-ROLL BARS

VIDEO TECH TIP

ANTI-ROLL BARS

When the bars are set, verify that both sides move at the same time. If they do, the bars are set up correctly. If not, make sure that both downstops are the same and that the bar wire is flat.

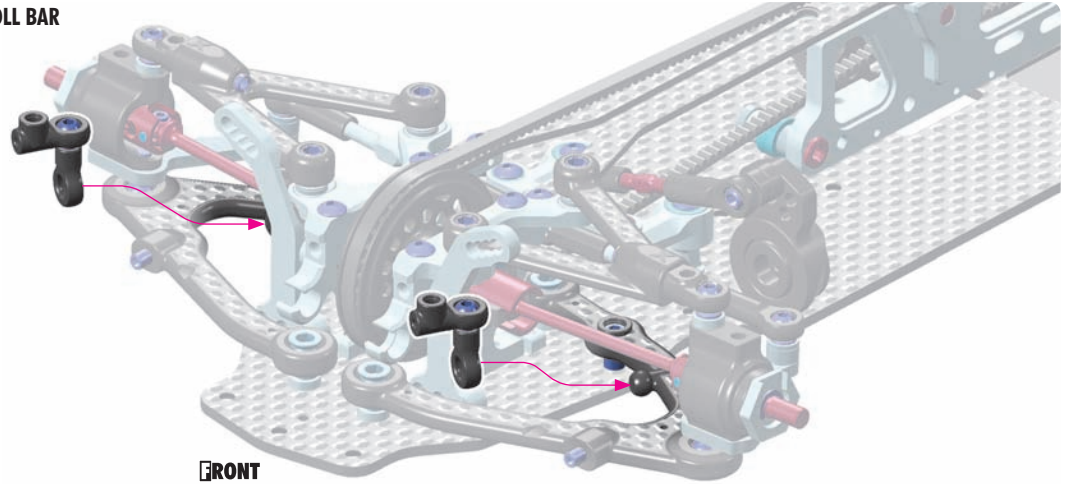
If both sides still do not move at the same time, adjust the length of the bar holders.

VIDEO TECH TIP

ANTI-ROLL BARS

5. FRONT & REAR SUSPENSION

2x FRONT ANTI-ROLL BAR

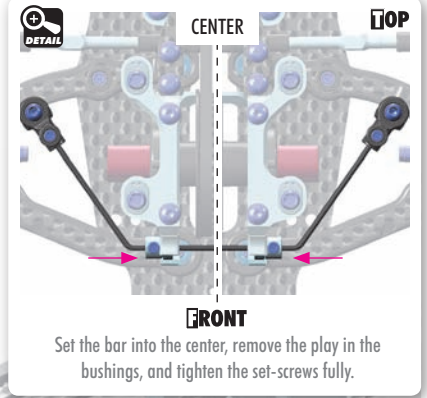
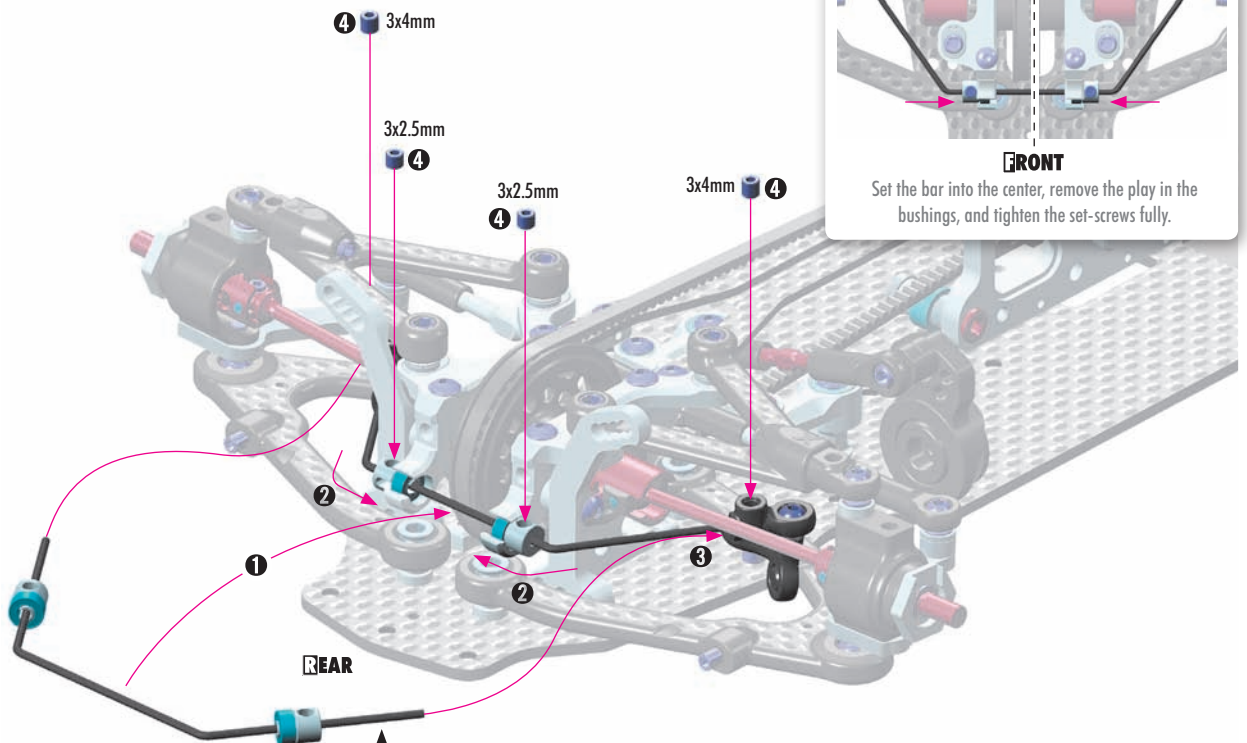


901302
SB M3x2.5



901304
SB M3x4

! FRONT ANTI-ROLL BAR



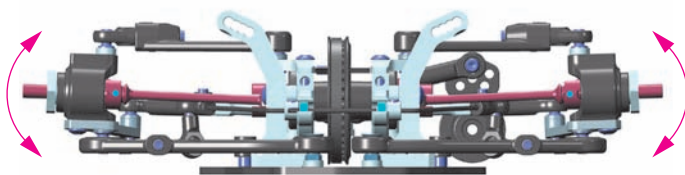
VIDEO TECH TIP



ANTI-ROLL BARS

SOFTER front anti-roll bar:
Allows the front to roll more which gives more front grip and improves on-power steering.

STIFFER front anti-roll bar:
Makes the car initially more responsive, and helps the car stay flatter on fast direction changes. Reduces steering from mid-corner to corner exit. Mainly recommended for high-grip carpet.



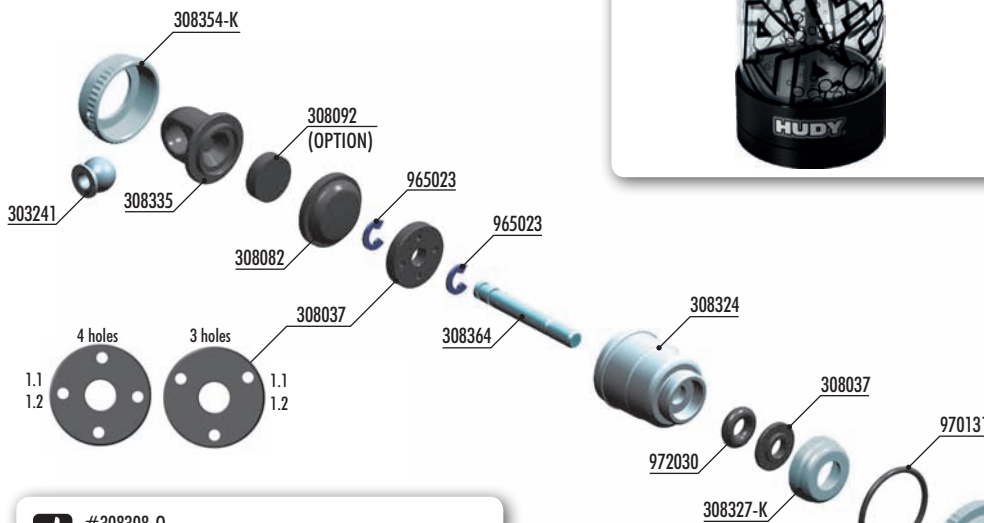
When the bars are set, verify that both sides move at the same time. If they do, the bars are set up correctly. If not, make sure that both downstops are the same and that the bar wire is flat.



If both sides still do not move at the same time, adjust the length of the bar holders.

6. SHOCK ABSORBERS

4x



#104002
HUDY AIR VAC – VACUUM PUMP - ON-ROAD



XRAY SPRINGS

Part #	Spring Rate (C)	Availability
#308263	C = 2.3-2.6	OPTION
#308264	C = 2.5-2.8	INCLUDED
#308274	C = 2.3	OPTION
#308275	C = 2.5	OPTION
#308286	C = 2.6	OPTION
#308276	C = 2.7	OPTION
#308288	C = 2.8	OPTION
#308277	C = 2.9	OPTION
#308290	C = 3.0	OPTION

#308308-0
ULP ALU SHOCK ABSORBER-SET - ORANGE (2)



#308031-0
ALU XRAY SHOCK SPRING RETAINING COLLAR - ORANGE (4)



#308031-K
ALU XRAY SHOCK SPRING RETAINING COLLAR - BLACK (4)



VIDEO TECH TIP



SHOCKS & SPRINGS

#308029
ULP ALU PROGRESSIVE SHOCK SYSTEM - SET (2)

Progressive shock system for touring cars for improved traction and steering characteristics. Shock insert with 3 triangular cutouts used with piston WITHOUT holes. The hardness of the shock is influenced not by the holes in the piston, but rather by the insert.



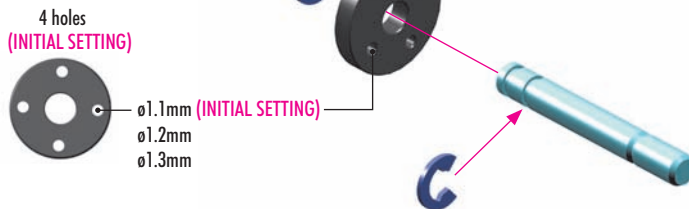
BAG

06

- 303241 BALL UNIVERSAL 5.8 MM HEX (4)
- 308037 COMPOSITE PISTONS 4-HOLE 1.0-1.2MM, 3-HOLE 1.0-1.2MM
- 308044-K ULP ALU SHOCK ADJUSTABLE NUT - BLACK (2)
- 308082 SHOCK ABSORBER MEMBRANE (4)
- 308092 SHOCK FOAM INSERTS (4) (OPTION)
- 308308-K ULP ALU SHOCK ABSORBER-SET - BLACK (2)
- 308316 SHOCK BALL JOINT - OPEN (4)
- 308324 ULP ALU SHOCK BODY (2)
- 308327-K ALU CAP FOR XRAY SHOCK BODY - BLACK
- 308335 ULP COMPOSITE SHOCK PARTS WITH 2 HOLES
- 308354-K ULP ALU SHOCK CAP-NUT WITH VENT HOLE - BLACK (2)
- 308364 HARDENED SHOCK SHAFT FOR ALU SHOCKS (2)
- 965023 E-CLIP 2.3 (10)
- 970131 O-RING 13 x 1.0 (10)
- 972030 SILICONE O-RING 3 x 2 (10)
- 308264 XRAY 4S SPRING-SET PROGRESSIVE C=2.5-2.8 (2)

965023
C 23

4x



6. SHOCK ABSORBERS

OIL
972030
Ø 3x2

4x

SHOCK OIL

SHOCK OIL

NOTE ORIENTATION

970131
Ø 13x1.0

4x

SHOCK OIL

SHOCK OIL

CUTAWAY VIEW

Be careful not to cross-thread the collar on the shock body.

4x

INCORRECT ✗

CORRECT ✓

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

4x NOTE! Set this distance to 8.5mm when using PSS system in front shocks.

9mm INITIAL SETTING

HINT: Pre-thread the ball joint using an M3 screw.
WARNING! Be careful not to pre-thread too far, since the ball joint may split or the plastic threads may strip out.

VIDEO TECH TIP

HUDY AIR-VAC SHOCK BUILD

OIL 400cSt

SHOCK FILLING

4x

- 1 Fully extend the piston rod so the piston is at the bottom of the shock body.
- 2 Hold the shock upright and slightly overfill the shock body with shock oil.
- 3 Let the oil settle and allow air bubbles to rise to the top. Slowly move the piston up and down to allow oil into all cavities within the shock body.
- 4 Extend the piston rod most of the way out of the shock body. Let the shock rest for 5 minutes to allow the air bubbles to escape.
- 5 Add shock oil as necessary.

TIP **HUDY** #104002
OPTION HUDY AIR VAC – VACUUM PUMP

SHOCK OILS (50ml)					
#106325	250cSt	OPTION	#106352	525cSt	OPTION
#106330	300cSt	OPTION	#106355	550cSt	OPTION
#106335	350cSt	OPTION	#106357	575cSt	OPTION
#106337	375cSt	OPTION	#106360	600cSt	OPTION
#106340	400cSt	INCLUDED	#106362	625cSt	OPTION
#106342	425cSt	OPTION	#106365	650cSt	OPTION
#106345	450cSt	OPTION	#106367	675cSt	OPTION
#106347	475cSt	OPTION	#106370	700cSt	OPTION
#106350	500cSt	OPTION	#106375	750cSt	OPTION
			#106380	800cSt	OPTION

To make sure that all the air is removed from the shock oil, we recommend using the HUDY Air Vac.

4x

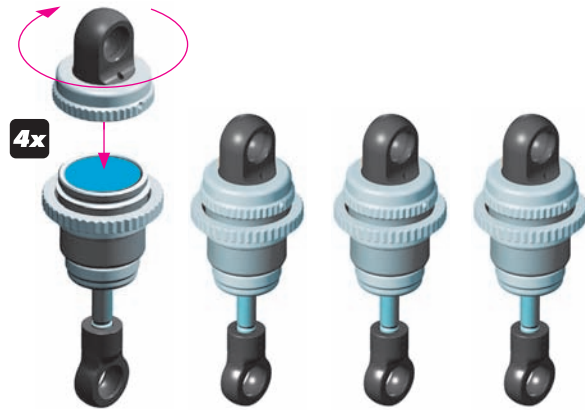
Foam insert (OPTION)

CUTAWAY VIEW

After you insert the membrane, ensure that it is fully seated inside the alu. cap.

6. SHOCK ABSORBERS

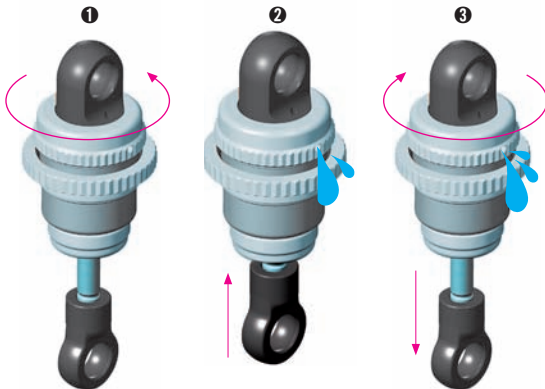
- ❶ When installing the shock cap assembly on the shock body, some oil will leak out... this is normal.
- ❷ Tighten the cap and clean off any excess oil.
- ❸ After the shock is assembled, the shock rod will push itself out of the shock body fairly quickly.
- ❹ Follow the next procedure to adjust the rebound.



4x

REBOUND ADJUSTMENT

RELEASE 2-3 turns

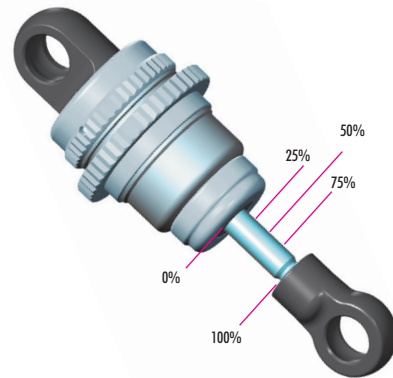


AFTER THE SHOCK IS ASSEMBLED YOU HAVE TO SET THE SHOCK REBOUND:

- ❶ Release the shock cap by 2-3 turns.
- ❷ Push the shock shaft fully up. For the first time the extra oil will release through the hole in the alu cap-nut.
- ❸ Tighten the shock cap. When tightening the shock cap, extra oil will again release through the hole in the alu cap - nut. When tightening, the shock shaft will push out from the shock body.

4x

REBOUND CHECK



REBOUND CHECK:

It is very important to push the shock shaft into the shock body slowly otherwise air can come into the shock body which would create bubbles.

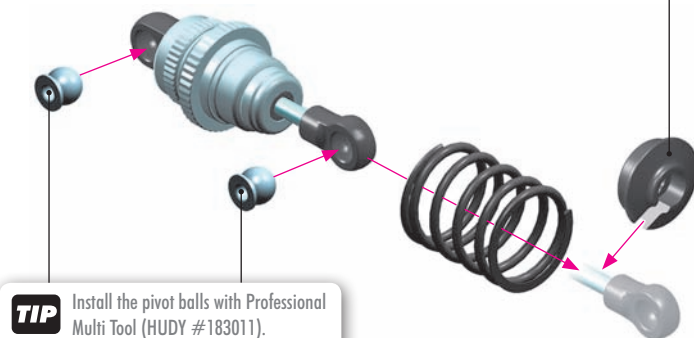
- 100% rebound - do not do step 2 and 3
- 75% rebound - repeat steps 1 to 3 until the shock shaft will push out 75% of its length
- 50% rebound - repeat steps 1 to 3 until the shock shaft will push out 50% of its length
- 25% rebound - repeat steps 1 to 3 until the shock shaft will push out 25% of its length
- 0% rebound - repeat steps 1 to 3 until the shock shaft will push out 0% of its length

If the shock shaft does not rebound enough, you will have to refill the shock with shock oil, and then repeat the bleeding and rebound adjustment procedure.

4x SHOCK LENGTH ADJUSTMENT:

❗ It is VERY IMPORTANT that all shocks are equal length.

Fully extend the shock absorber and measure the end-to-end length; we recommend using digital calipers to give an accurate measurement. If a shock absorber is shorter or longer than others, adjust the shock length by tightening or loosening the ball joint on the shock rod.



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



👍 #308031-0
OPTION ALU XRAY SHOCK SPRING RETAINING COLLAR - ORANGE (4)



👍 #308031-K
OPTION ALU XRAY SHOCK SPRING RETAINING COLLAR - BLACK (4)

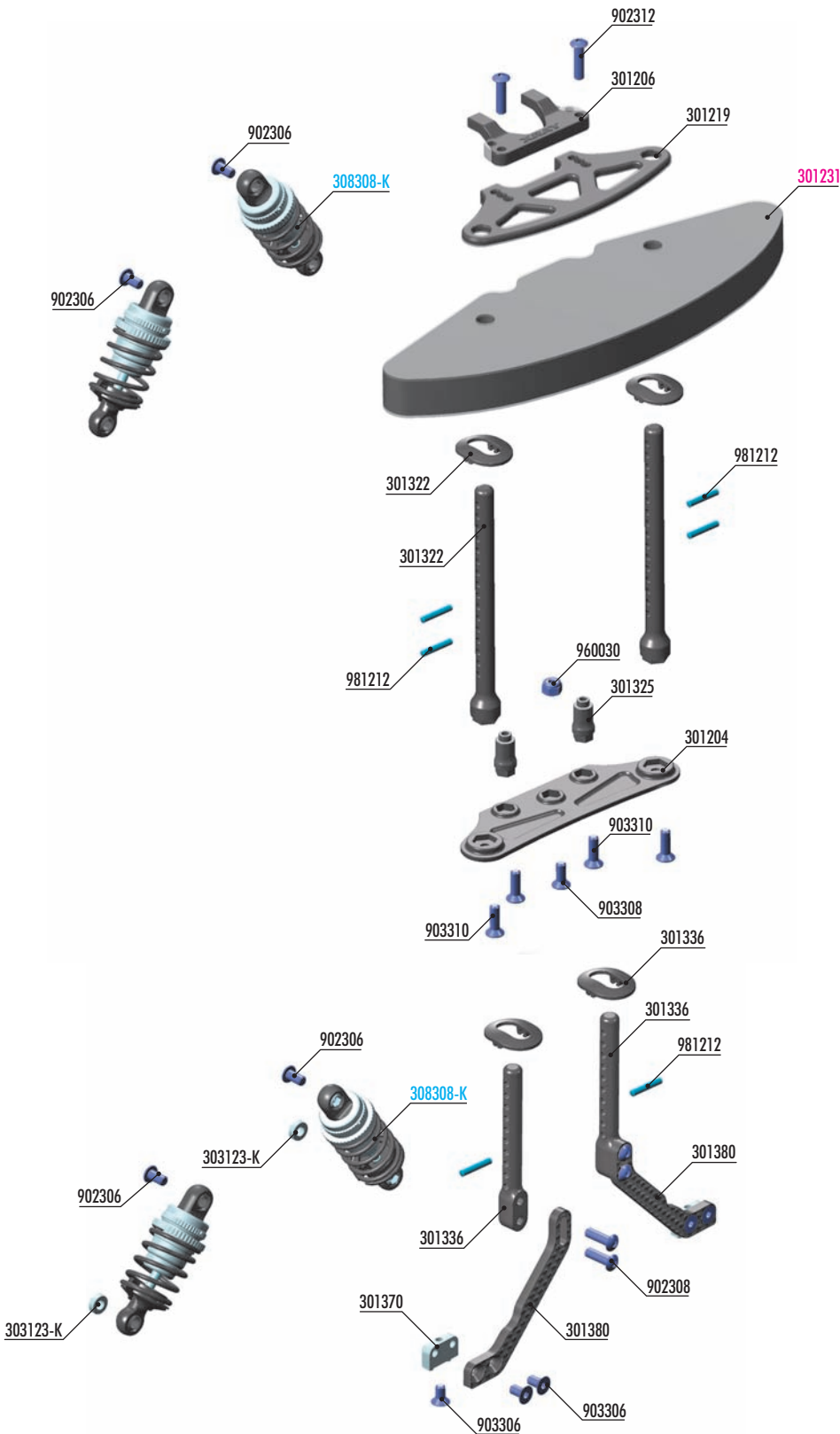


VIDEO TECH TIP



SHOCKS & SPRINGS

7. FRONT & REAR ASSEMBLY



REAR BODY MOUNT SET			
#301336	0mm	INCLUDED	
#301337	+1mm	OPTION	
#301338	+2mm	OPTION	

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

FRONT ECC. BODY MOUNT SET			
#301326	0mm	INCLUDED	
#301327	+1mm	OPTION	
#301328	+2mm	OPTION	

#301351-0
ALU ADJUSTABLE BODY POST STOP (2)

#301210
GRAPHITE UPPER HOLDER FOR BUMPER 2.5mm

#301232
FOAM BUMPER FOR ADJ. BODY MOUNTS - HARD

BAG

07

- 301204 COMPOSITE BUMPER
- 301206 X4 COMPOSITE BUMPER UPPER HOLDER BRACE
- 301219 COMPOSITE UPPER HOLDER FOR BUMPER
- 301322 FRONT BODY MOUNT SET
- 301325 COMPOSITE BRACE FOR BUMPER - LOW (2)
- 301336 REAR BODY MOUNT SET
- 301370 X4 ALU PLATE FOR REAR GRAPHITE BODY POST HOLDER
- 301380 GRAPHITE BODY POST HOLDER (L+R)
- 303123-K ALU SHIM 3x6x2.0MM - BLACK (10)

- 902306 HEX SCREW SH M3x6 (10)

- 902308 HEX SCREW SH M3x8 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 903306 HEX SCREW SFH M3x6 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 903310 HEX SCREW SFH M3x10 (10)
- 960030 NUT M3 (10)
- 981212 PIN 2x12 (10)

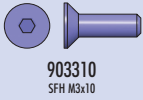
- 301231** FOAM BUMPER - LIGHT & STRONG

- 308308-K** ULP ALU SHOCK ABSORBER-SET - BLACK (2)

7. FRONT & REAR ASSEMBLY



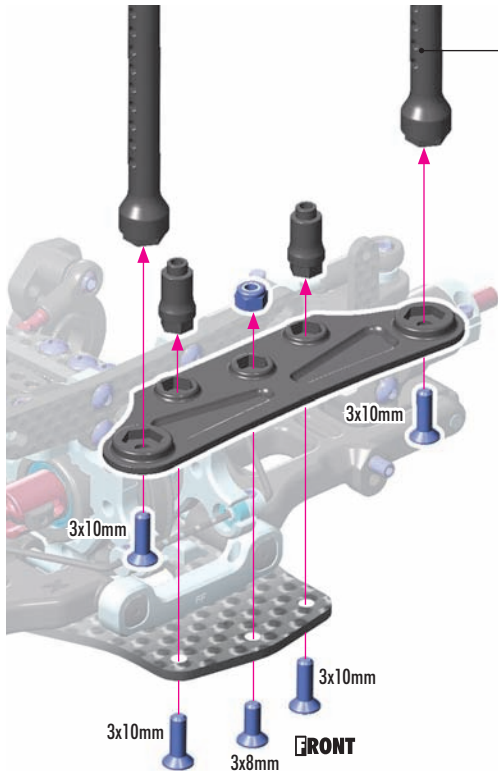
903308
SFH M3x8



903310
SFH M3x10



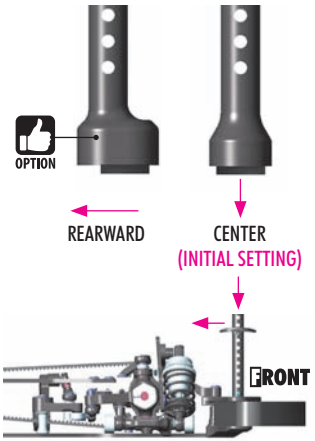
960030
N M3



FRONT BODY POST ORIENTATION

This new, innovative & unique feature allows adjustment of the body position for all kind of surfaces, traction conditions, touring classes, using only one body. There are two different body positions; rearward and center. Depending on the conditions the body post positions can be easily changed which allows the body to be moved.

- The body in the **REARWARD POSITION** makes the car super stable and very easy to drive. It makes the car easier to drive in chicanes and more predictable in high-traction conditions.
- The body in the **CENTER POSITION** makes the car more aggressive and steer faster, but is a bit more difficult to drive in low-grip conditions.



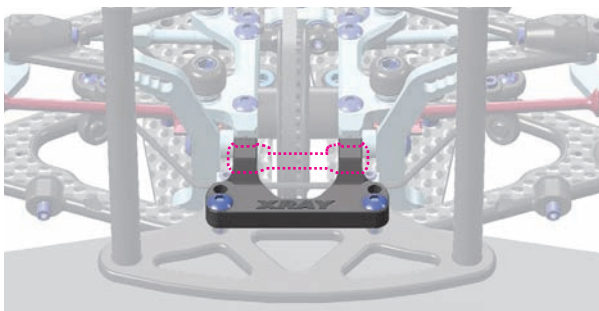
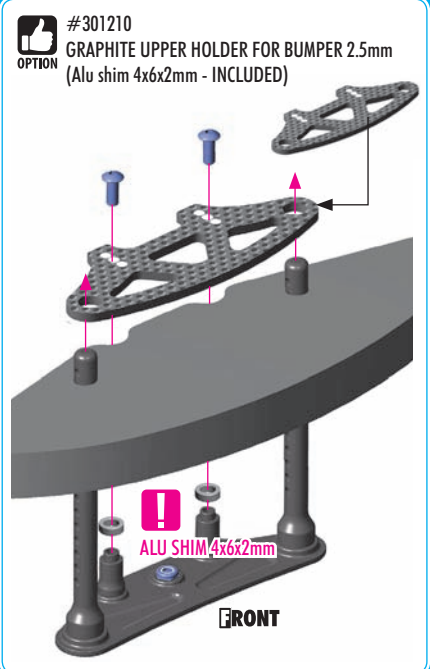
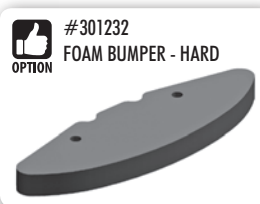
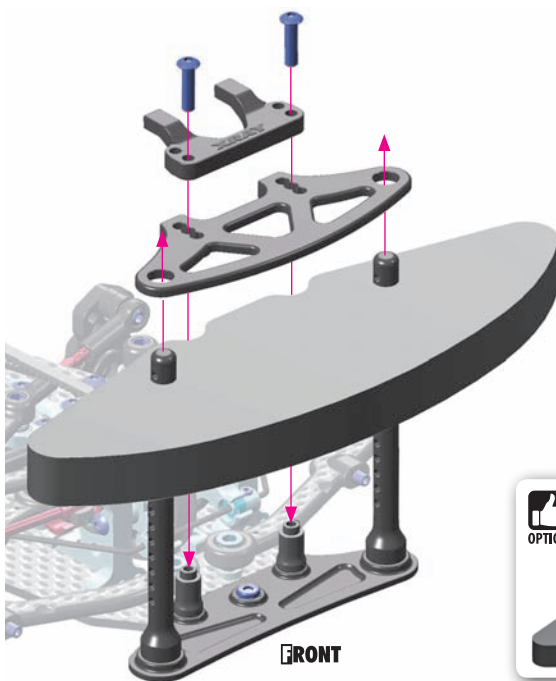
It is important to use the same body setting (rearward and center) on both front and rear body posts at the same time.

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

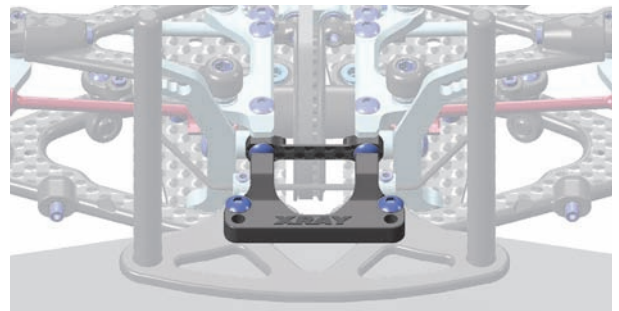
OPTION	FRONT ECC. BODY MOUNT SET	
#301326	0mm	OPTION
#301327	+1mm	OPTION
#301328	+2mm	OPTION



902312
SH M3x12



Position WITHOUT graphite brace
INITIAL SETTING



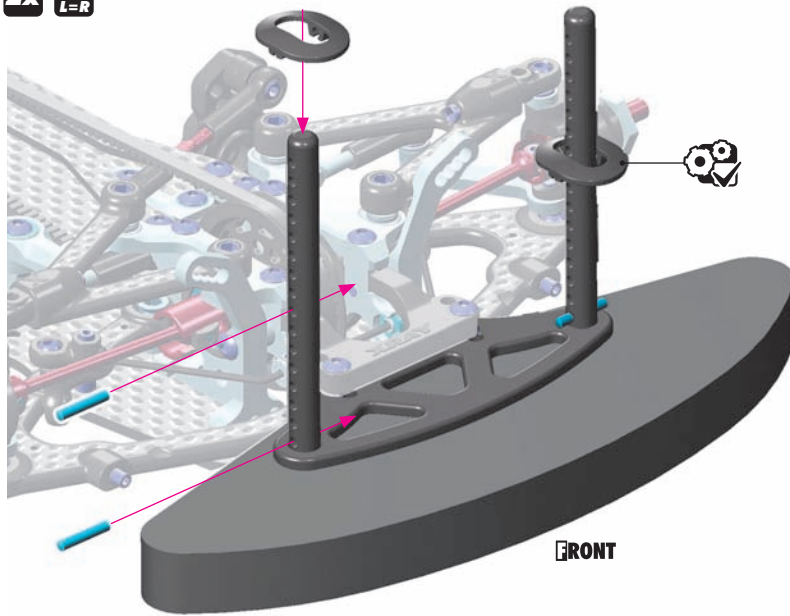
Position WITH graphite brace

7. FRONT & REAR ASSEMBLY



981212
P 2x12

2x
L=R



FRONT



#301351-0
ALU ADJUSTABLE BODY POST STOP (2)



Very handy, easily externally adjustable body post made from Swiss 7075 T6 aluminum. Allows for adjustment of body height by 3mm without needing to change the position on the body post.



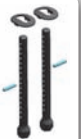
FRONT ECC. BODY MOUNT SET

#301326	0mm	OPTION
#301327	+1mm	OPTION
#301328	+2mm	OPTION



FRONT BODY MOUNT SET

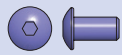
#301322	0mm	INCLUDED
#301323	+1mm	OPTION
#301324	+2mm	OPTION



VIDEO TECH TIP



FRONT BODY UPSTOP SYSTEM



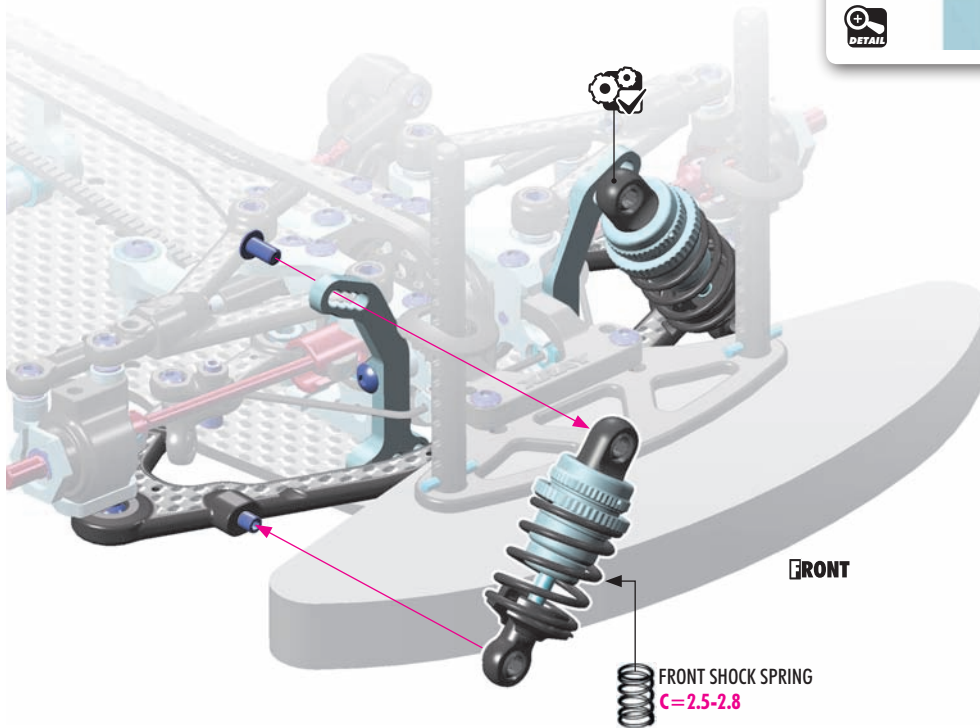
902306
SH M3x6



VIDEO TECH TIP

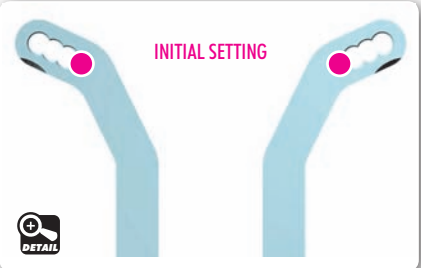


SHOCKS & SPRINGS



FRONT

FRONT SHOCK SPRING
C=2.5-2.8



INITIAL SETTING



#308029
ULP ALU PROGRESSIVE SHOCK SYSTEM - SET (2)



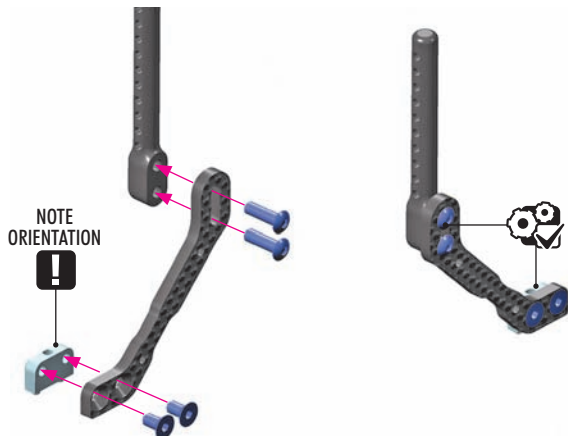
The progressive shock inserts can improve traction and steering characteristics. The ULP PSS set fits the stock ULP shock bodies included in the kit.

7. FRONT & REAR ASSEMBLY



2x REAR VERTICAL BODY MOUNTING (INITIAL SETTING)

NOTE ORIENTATION

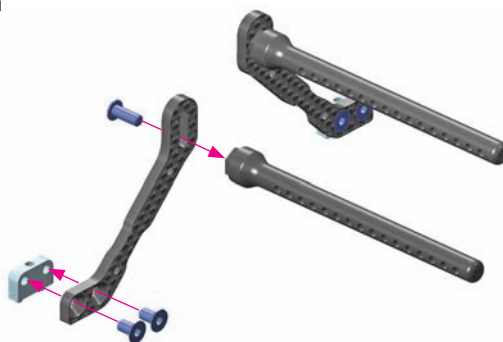


REAR BODY MOUNT SET

Part #	Height	Status
#301336	0mm	INCLUDED
#301337	+1mm	OPTION
#301338	+2mm	OPTION



REAR HORIZONTAL BODY MOUNTING

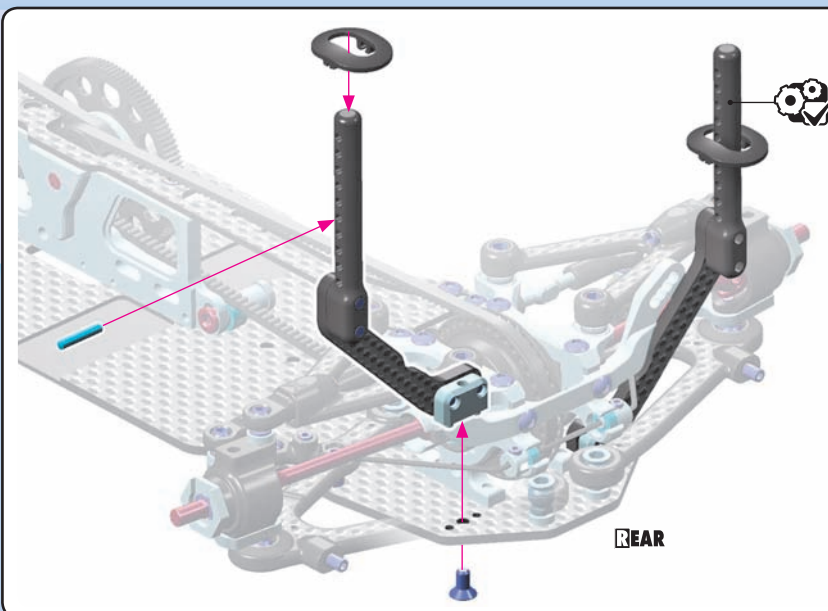
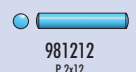
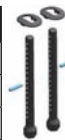


The optional horizontal rear body mounting has proven beneficial for medium- to high-grip conditions, and especially on technical tracks. The horizontal mounting improves the direction change of the car, improves steering response, and improves rotation. However, rear grip is reduced. This is particularly useful for spec classes such as Stock and Super Stock. The kit carbon mounts allow for the height of the horizontal posts to be adjusted.



FRONT BODY MOUNT SET

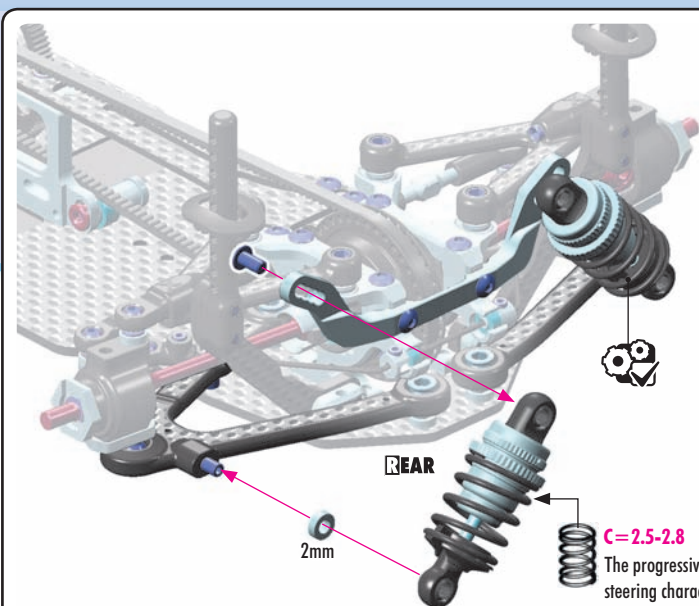
Part #	Height	Status
#301322	0mm	INCLUDED
#301323	+1mm	OPTION
#301324	+2mm	OPTION



#301351-0 ALU ADJUSTABLE BODY POST STOP (2)



Very handy, easily externally adjustable body post made from Swiss 7075 T6 aluminum. Allows for adjustment of body height by 3mm without needing to change the position on the body post.



#308029 ULP ALU PROGRESSIVE SHOCK SYSTEM - SET (2)



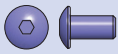
The progressive shocks improve traction and steering characteristics. This ULP progressive system directly fits the ULP shocks in the kit.



SHOCK SHIMMING TUTORIAL

C=2.5-2.8
The progressive shock inserts can improve traction and steering characteristics. The ULP PSS set fits the stock ULP shock bodies included in the kit.

7. FINAL ASSEMBLY



902306
SH M3x6



903306
SFH M3x6

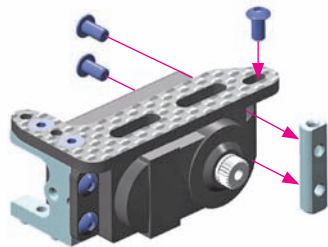
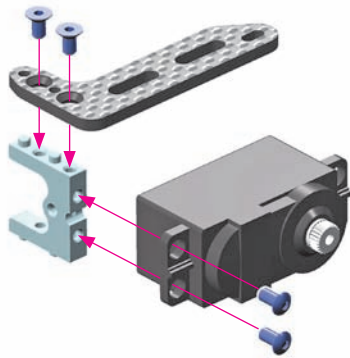


VIDEO TECH TIP



STEERING SYSTEM

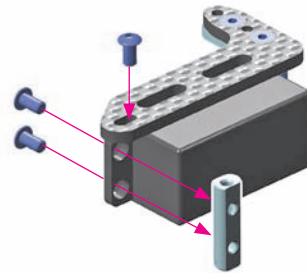
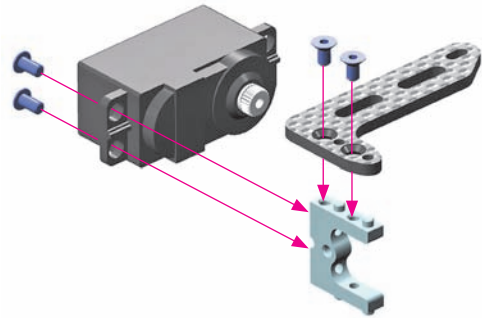
ALTERNATIVE 1 FLOATING REARWARD MOUNT SERVO HOLDER (INITIAL SETTING)



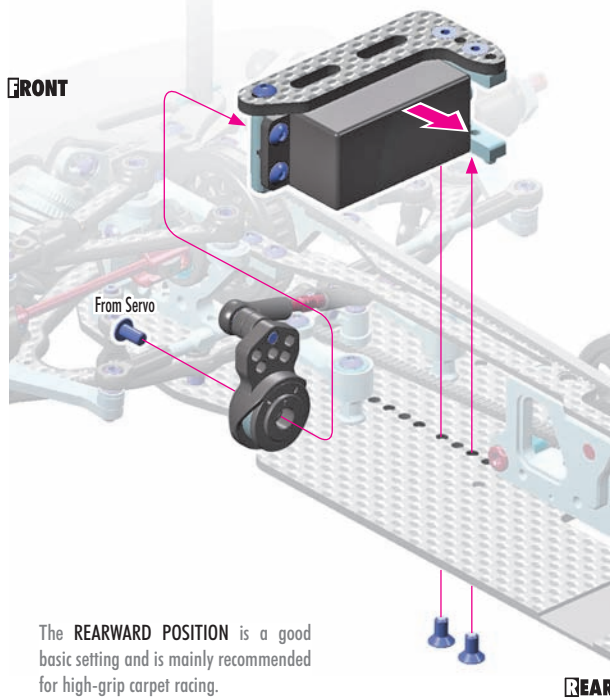
TIP

For improved weight balance and for more space for electronics, we recommend using a narrow, light servo.

ALTERNATIVE 2 FLOATING FORWARD MOUNT SERVO HOLDER

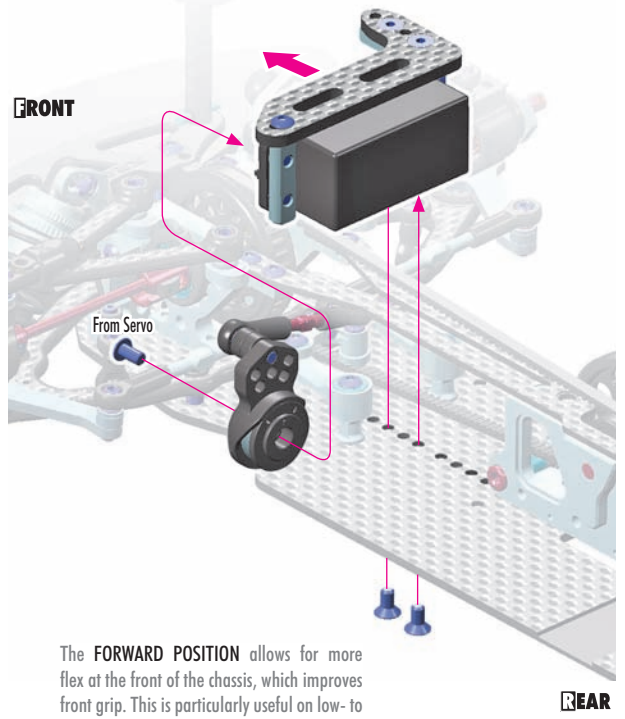


ALTERNATIVE 1 FLOATING REARWARD MOUNT SERVO HOLDER (INITIAL SETTING)



The REARWARD POSITION is a good basic setting and is mainly recommended for high-grip carpet racing.

ALTERNATIVE 2 FLOATING FORWARD MOUNT SERVO HOLDER



The FORWARD POSITION allows for more flex at the front of the chassis, which improves front grip. This is particularly useful on low- to medium-grip carpet as well as asphalt.



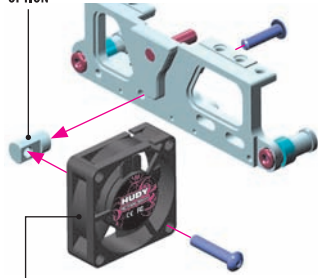
Attach servo arm to servo output shaft using screw from servo. Servo saver must be perpendicular to chassis when servo is in neutral.



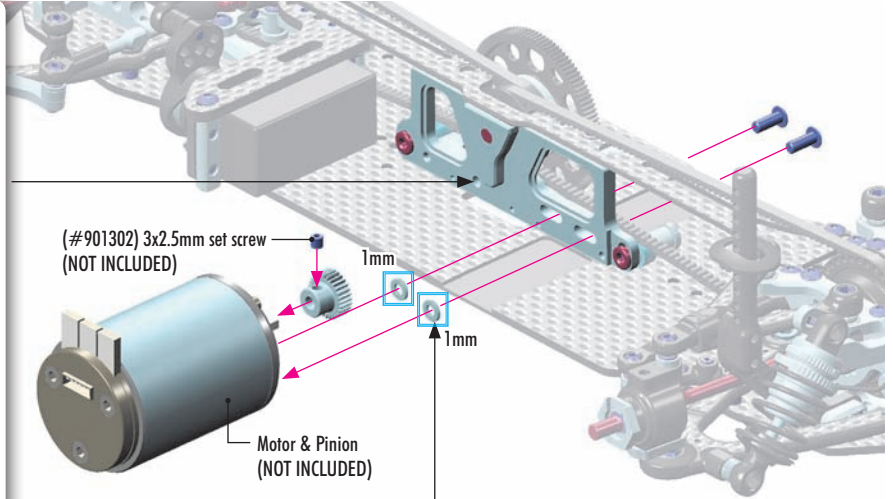
7. FINAL ASSEMBLY



#306410
ALU FAN MOUNT
OPTION



#293110 HUDY BRUSHLESS RC FAN 30MM WITH EXTERNAL SOLDERING TABS
#293111 HUDY BRUSHLESS RC FAN 40MM WITH EXTERNAL SOLDERING TABS
#293112 HUDY BRUSHLESS RC FAN 30MM WITH INTERNAL SOLDERING TABS
#293113 HUDY BRUSHLESS RC FAN 40MM WITH INTERNAL SOLDERING TABS



(#901302) 3x2.5mm set screw (NOT INCLUDED)
1mm
1mm
Motor & Pinion (NOT INCLUDED)



TIP

If you use very heavy battery for stock racing and very light speedo and motor, you can use shims between motor and motor mount to move the weight more outside on the motor side which can help to have same weight balance left and right. You can use shims #303122 (3x6x1mm) not included in kit.



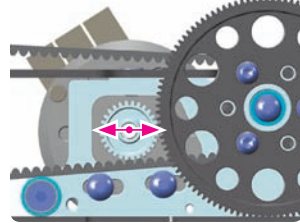
ALU PINION GEARS (OPTION)

- | | |
|-------------------|-------------------|
| #305912 12T / 48P | #305968 18T / 64P |
| #305913 13T / 48P | #305969 19T / 64P |
| #305914 14T / 48P | #305970 20T / 64P |
| #305915 15T / 48P | #305971 21T / 64P |
| #305916 16T / 48P | #305972 22T / 64P |
| #305917 17T / 48P | #305973 23T / 64P |
| #305918 18T / 48P | #305974 24T / 64P |
| #305919 19T / 48P | #305975 25T / 64P |
| #305920 20T / 48P | #305976 26T / 64P |
| #294021 21T / 48P | #305977 27T / 64P |
| #294022 22T / 48P | #294128 28T / 64P |
| #294023 23T / 48P | #294129 29T / 64P |
| #305924 24T / 48P | #294130 30T / 64P |
| #305925 25T / 48P | #294131 31T / 64P |
| #305926 26T / 48P | #305982 32T / 64P |
| #305927 27T / 48P | #294133 33T / 64P |
| #305928 28T / 48P | #305984 34T / 64P |
| #305929 29T / 48P | #305985 35T / 64P |
| #294030 30T / 48P | #294136 36T / 64P |
| #305931 31T / 48P | #294137 37T / 64P |
| #305932 32T / 48P | #294138 38T / 64P |
| #294033 33T / 48P | #294139 39T / 64P |
| #305934 34T / 48P | #294140 40T / 64P |
| #294035 35T / 48P | #294141 41T / 64P |
| | #294142 42T / 64P |
| | #294143 43T / 64P |
| | #294144 44T / 64P |
| | #294145 45T / 64P |
| | #305996 46T / 64P |
| | #294147 47T / 64P |
| | #294148 48T / 64P |
| | #294149 49T / 64P |
| | #294150 50T / 64P |
| | #294152 52T / 64P |
| | #294154 54T / 64P |
| | #294156 56T / 64P |
| | #294158 58T / 64P |
| | #294160 60T / 64P |



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.



VIDEO TECH TIP



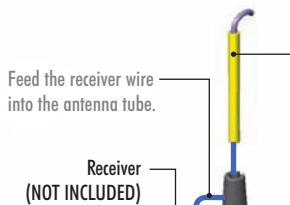
WEIGHT BALANCE



VIDEO TECH TIP



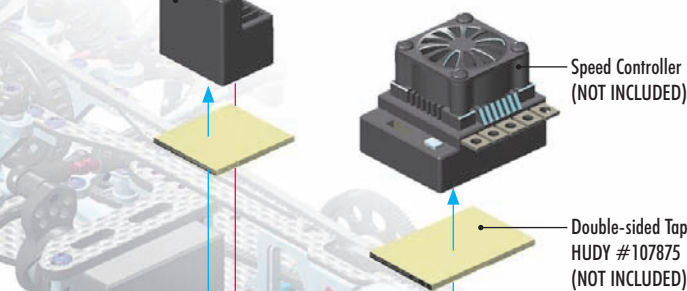
ELECTRONICS INSTALLATION



Feed the receiver wire into the antenna tube.



NOTE: If the antenna tube does not hold the antenna properly, apply a small drop of the CA glue to the outside end of the antenna tube while inserting it into the holder. Make sure not to apply glue to the inside of the antenna tube, or the antenna wire will get permanently stuck.



Speed Controller (NOT INCLUDED)

Double-sided Tape HUDY #107875 (NOT INCLUDED)

For perfect left-to-right balance, we recommend using HUDY pure tungsten weights under your electronics.

#293086
HUDY PURE TUNGSTEN WEIGHT THIN 15g - (24.5x24.5mm)
OPTION

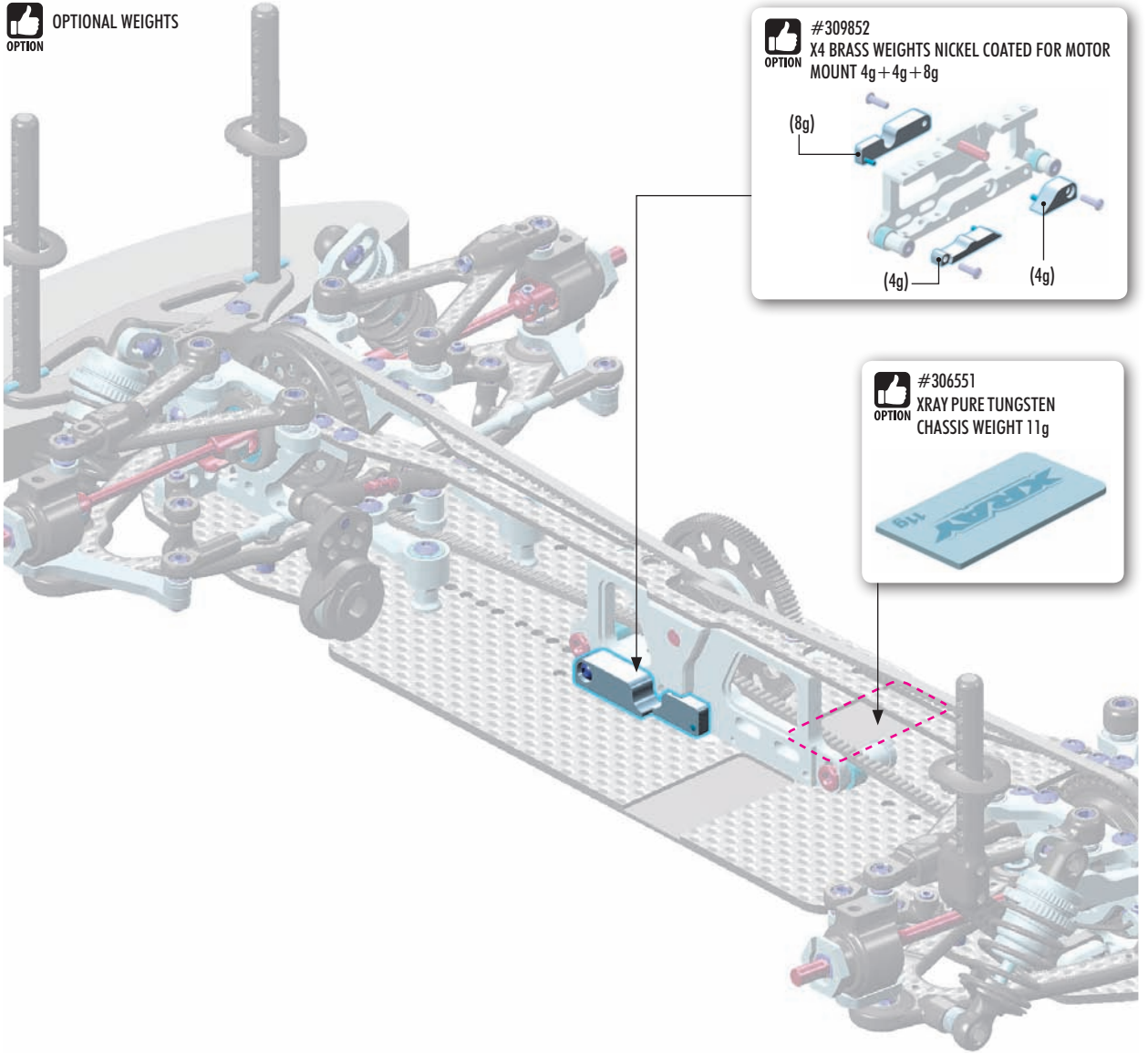


#293087
HUDY PURE TUNGSTEN WEIGHT THIN 20g - (31x26mm)
OPTION

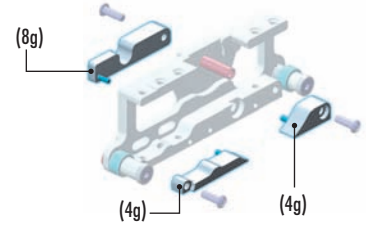


7. FINAL ASSEMBLY

OPTIONAL WEIGHTS
OPTION



#309852
X4 BRASS WEIGHTS NICKEL COATED FOR MOTOR MOUNT 4g + 4g + 8g



#306551
XRAY PURE TUNGSTEN CHASSIS WEIGHT 11g



VIDEO TECH TIP



WEIGHT BALANCE

901305
SB M3x5

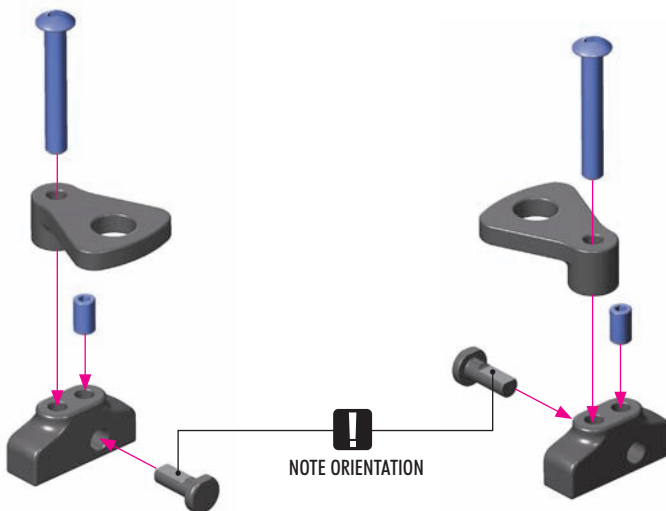
902320
SH M3x20



VIDEO TECH TIP

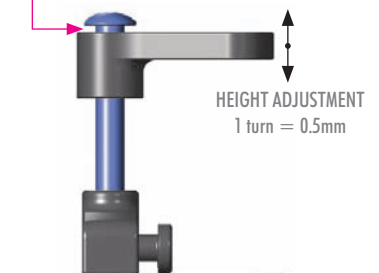


BATTERY MOUNTING SYSTEM



NOTE ORIENTATION

To ensure correct functioning of the battery holder, do not overtighten the screw; the holder must be able to move.



HEIGHT ADJUSTMENT
1 turn = 0.5mm

7. FINAL ASSEMBLY



903312
SFH M3x12



VIDEO TECH TIP



WEIGHT BALANCE



VIDEO TECH TIP

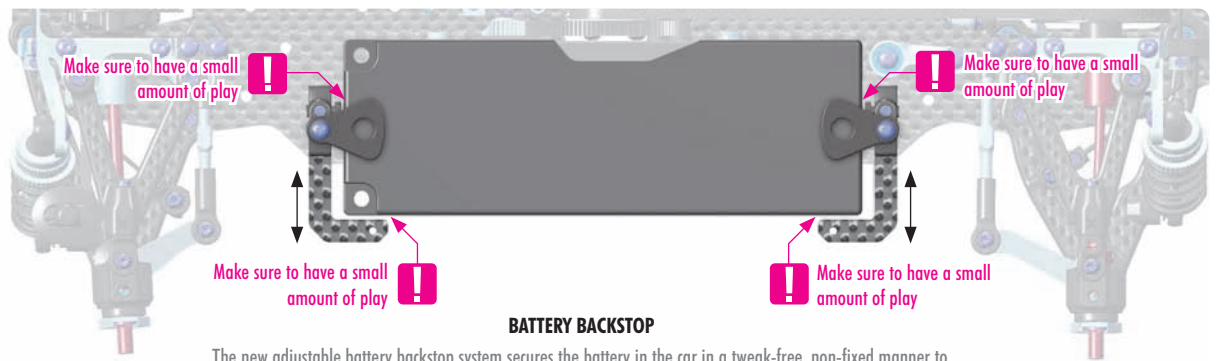
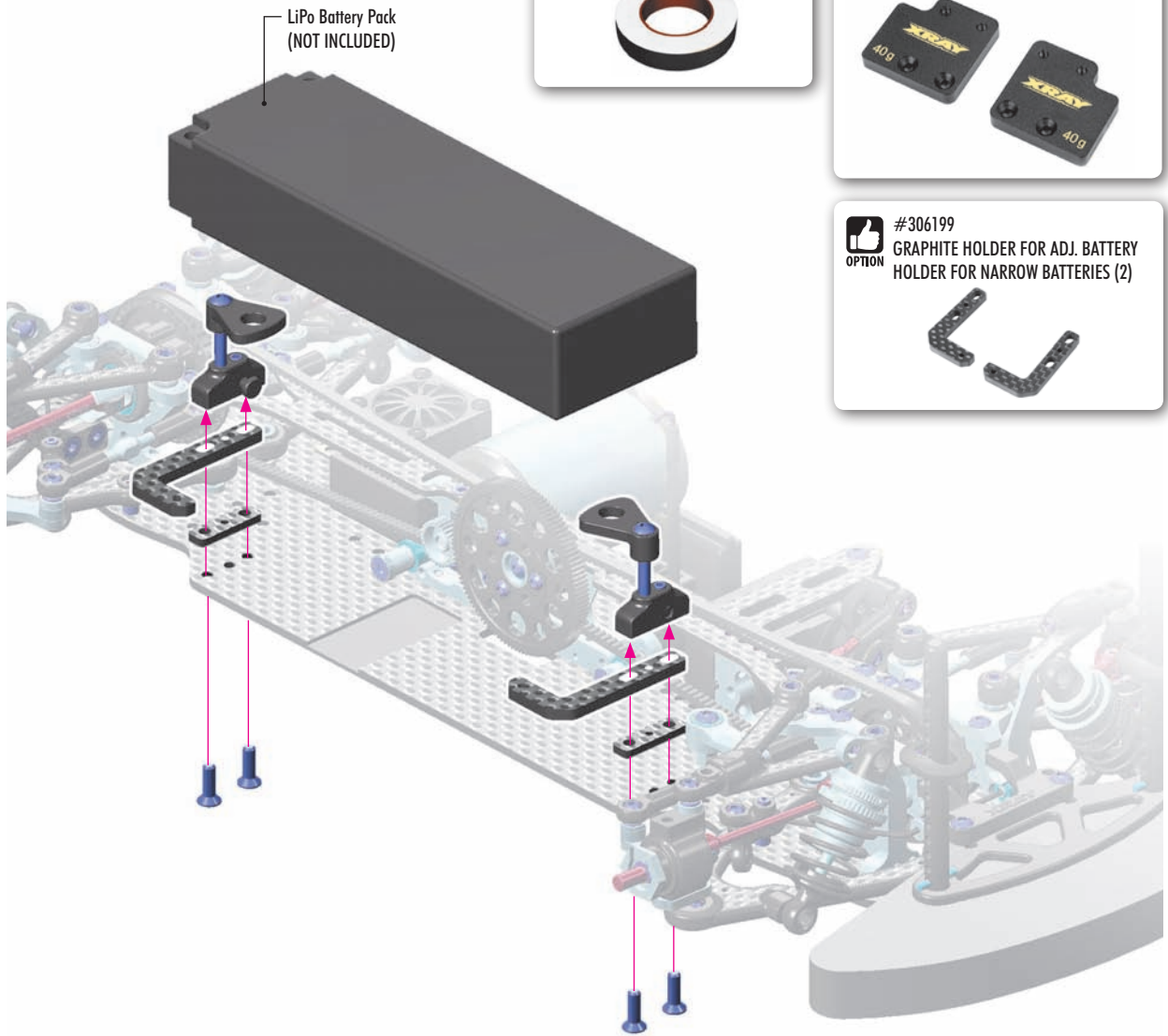


BATTERY MOUNTING SYSTEM

#107870
OPTION HUDY FIBRE-REINFORCED TAPE

#309861
OPTION SHORT LIPO BALANCING CHASSIS WEIGHT 40g (2)

#306199
OPTION GRAPHITE HOLDER FOR ADJ. BATTERY HOLDER FOR NARROW BATTERIES (2)

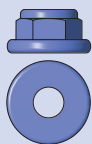


The new adjustable battery backstop system secures the battery in the car in a tweak-free, non-fixed manner to help improve traction and makes it more stable and easier to drive.

It is very important that battery has a very small amount of play in all directions so it does not tweak the car, but the play cannot be too much otherwise the battery may fall out in crashes.



7. FINAL ASSEMBLY



960240
N M4



OPTION

ALU REAR WING SHIM

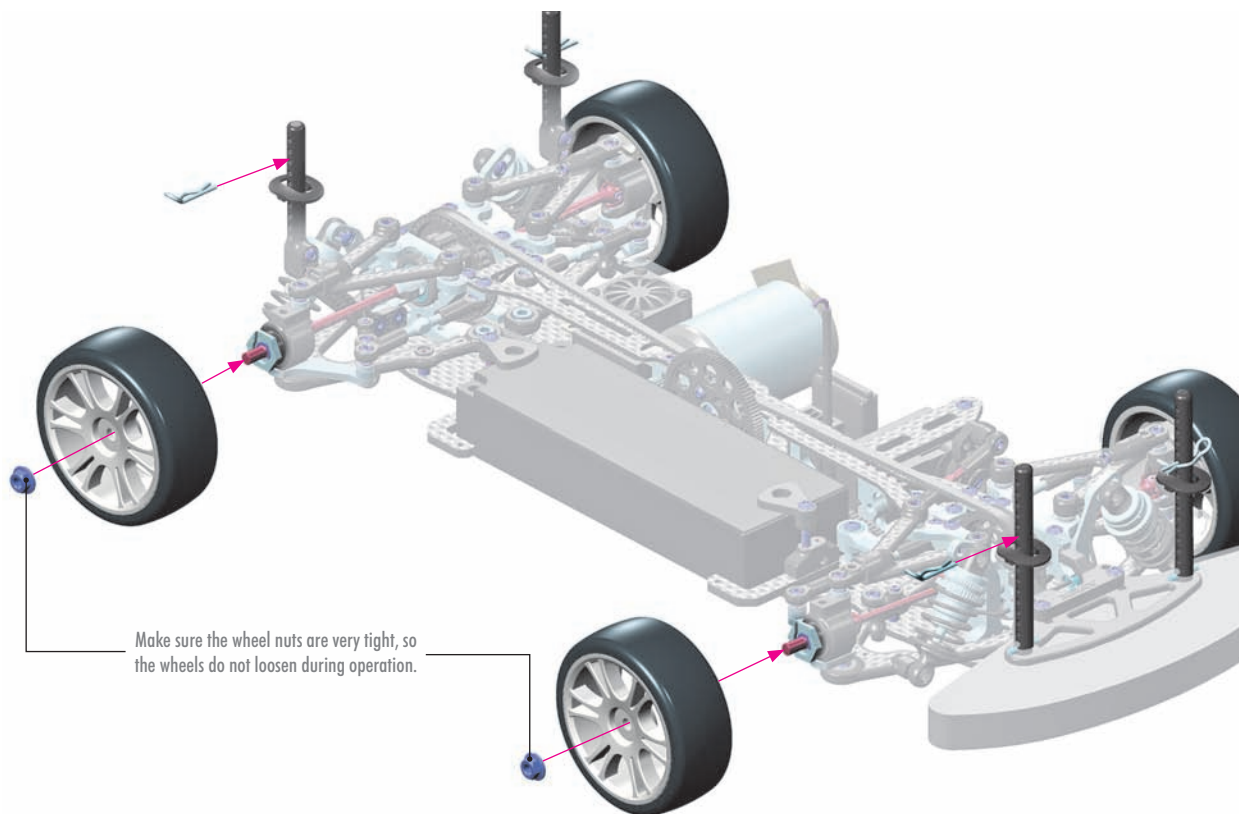
#353561	SILVER	OPTION
#293561	SILVER	OPTION
#293561-0	ORANGE	OPTION



OPTION

OFFSET ALU WHEEL SHIMS

#305380	0.75mm	OPTION
#305382	0.5mm	OPTION
#305381	1.0mm	OPTION



Make sure the wheel nuts are very tight, so the wheels do not loosen during operation.



VIDEO TECH TIP



TRACK WIDTH
(OFFSET)



DOWNSTOP & RIDE
HEIGHT



CHASSIS TWEAK



OPTION

#293081
HUDY PURE TUNGSTEN WEIGHT 5g



OPTION

#293082
HUDY PURE TUNGSTEN WEIGHT 10g



OPTION

#309862
XRAY STAINLESS STEEL WEIGHT FOR NARROW
BATTERY PACK 35g



OPTION

#326181
STAINLESS STEEL BATTERY WEIGHT 35g



OPTION

#293083
HUDY PURE TUNGSTEN WEIGHT 15g



OPTION

#293085
HUDY PURE TUNGSTEN WEIGHT THIN ROUND
WITH M3 - 10g



7. FINAL ASSEMBLY

BODY STOP SYSTEM

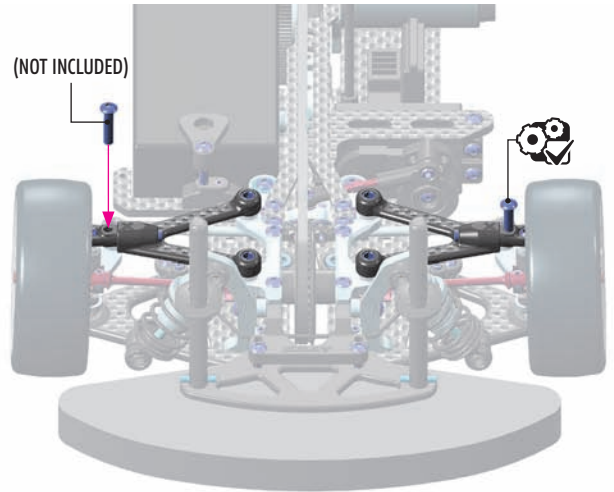
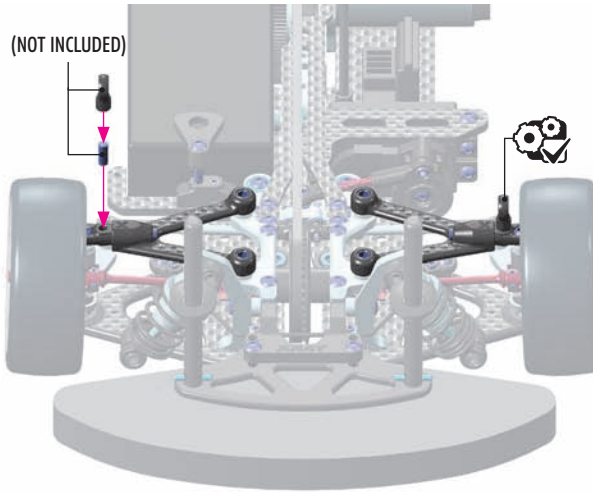
The X4 features an adjustable front body upstop system incorporated into the new upper arm to prevent the body shell from bottoming out and hitting the ground during cornering. When the system is set correctly, it allows the body to be run lower without dragging on the ground to improve aerodynamic efficiency.



BODY STOP ALTERNATIVE
with screw and ball joint
(#901308 SB M3x8mm / #303457 Ball Joint)



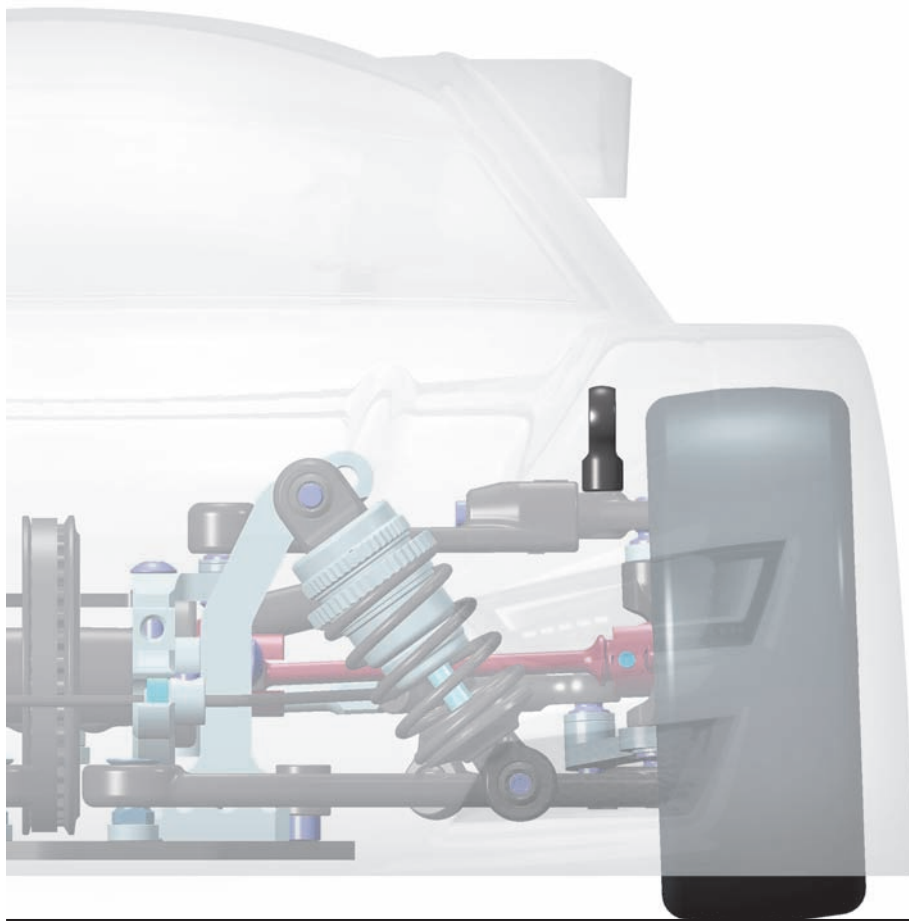
BODY STOP ALTERNATIVE
with screw
(#902316 SH M3x16mm)



▶ VIDEO TECH TIP



BODY UPSTOPS



SET-UP SHEET

VER.01 ©XRAY

XRAY X4'22

RACE		
TRACK		
NAME	DATE	

TRACK TEMPERATURE	QUAL POSITION	FINAL POSITION	BEST LAPTIME	LAPS	TIME
			/sec	/	

TRACK

TRACK SURFACE CARPET ASPHALT

TRACK LAYOUT TECHNICAL MIXED FAST

TRACTION LOW MEDIUM HIGH

FRONT TRANSMISSION REAR

SOLID AXLE YES

GEAR DIFFERENTIAL - OIL /cSt GEAR DIFFERENTIAL - OIL /cSt

PINION /T SPUR GEAR /T FINAL DRIVE RATIO

FRONT SHOCKS REAR

XRAY SPRINGS

OIL /cSt

REBOUND %

YES NO FOAM INSERTS YES NO

3 HOLES 4 HOLES PSS

PISTONS 1.0mm 1.1mm 1.2mm

3 HOLES 4 HOLES PSS

SHOCK LENGTH FRONT /mm SHOCK LENGTH REAR /mm

THICKNESS/mm **ANTI-ROLL BAR** THICKNESS/mm

TIRES

ADDITIVE

ADDITIVE TIMING

FRONT LEFT FRONT RIGHT REAR LEFT REAR RIGHT

TREATED AREA

TOTAL WEIGHT /g WEIGHT BALANCE FRONT % REAR %

MOTOR TIMING

ESC BATTERIES

BODY WING

BODY POSITION

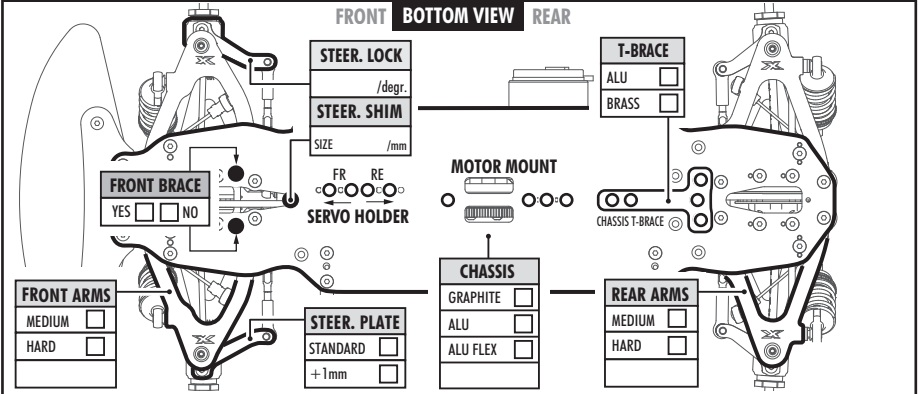
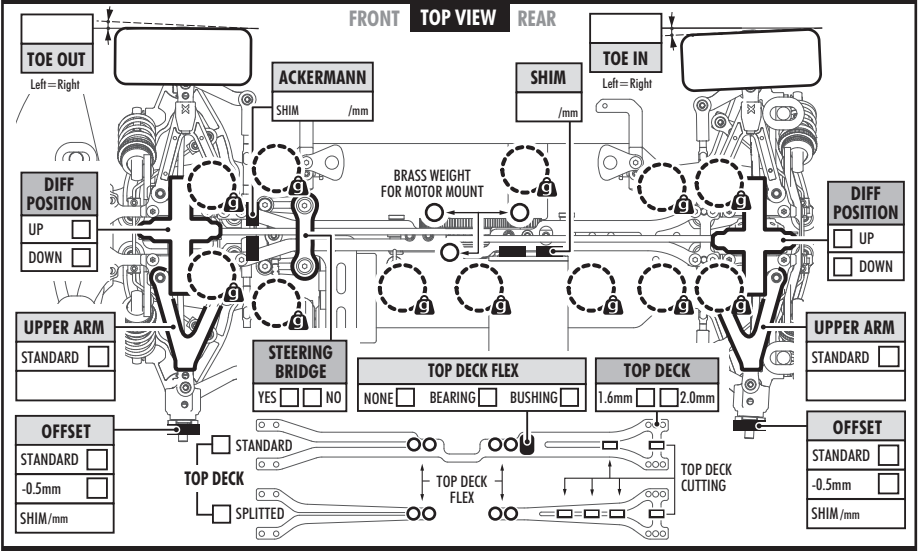
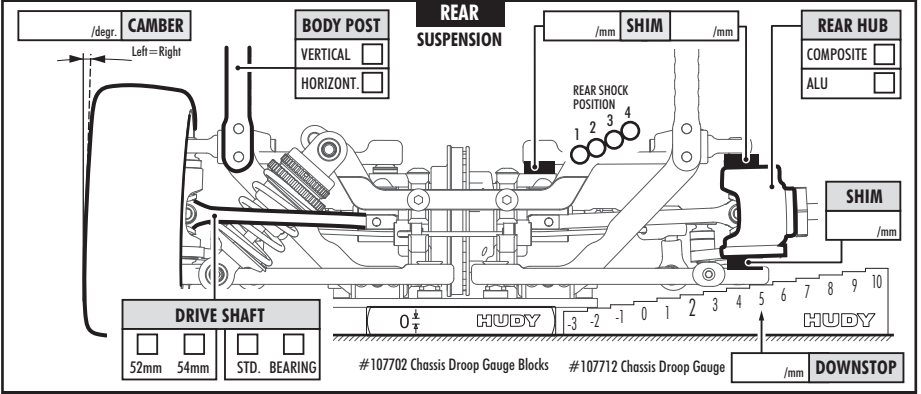
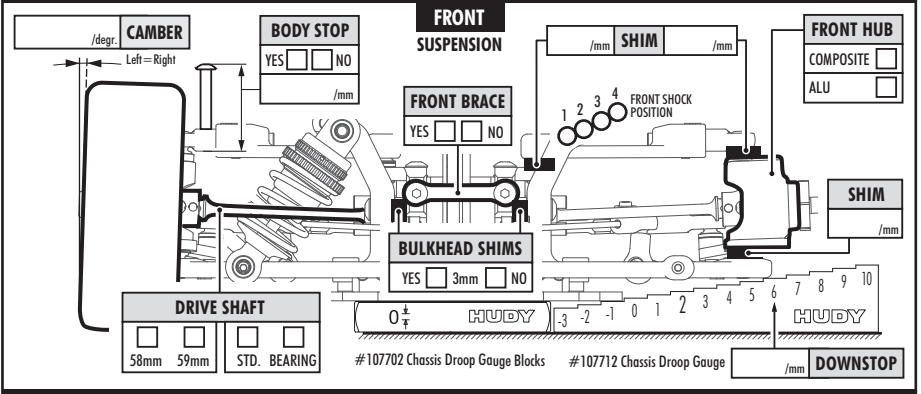
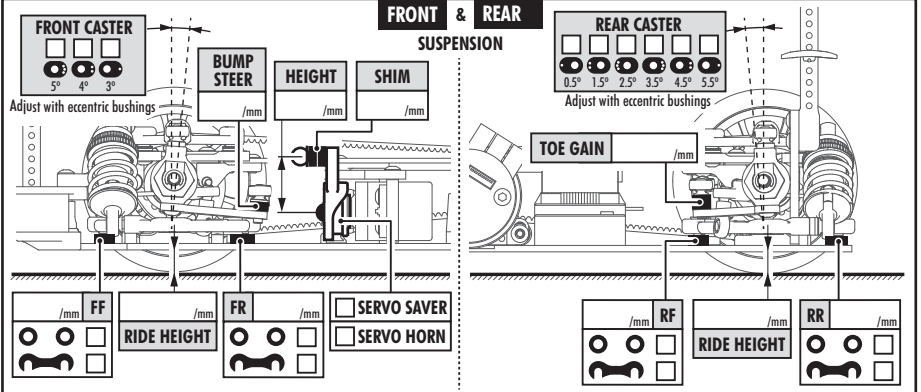
Dimension from body post to window bottom line /mm

Dimension from body post to upper holder /mm

WING SIDE PLATE YES NO

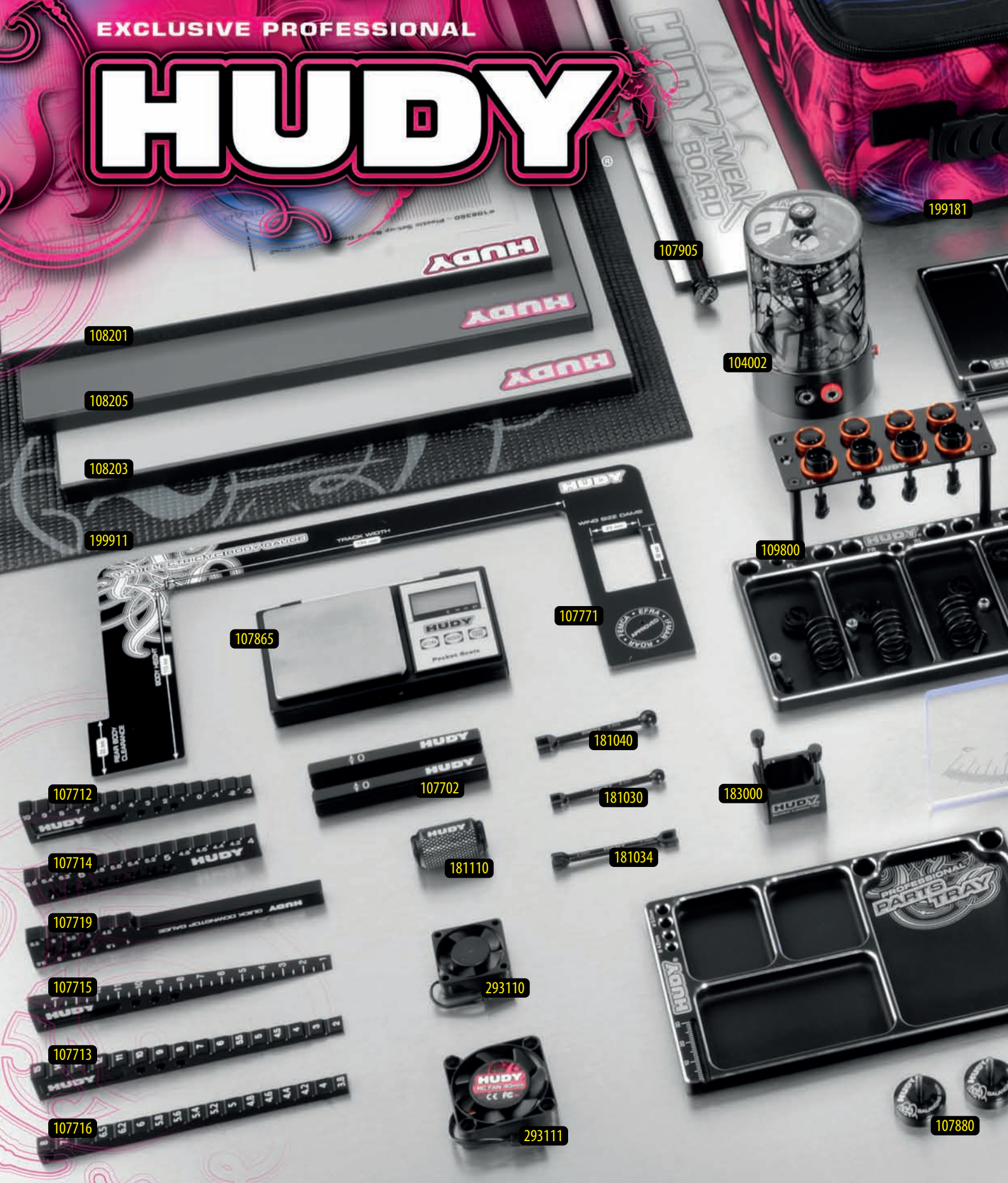
Dimension from edge to surface /mm

COMMENTS



EXCLUSIVE PROFESSIONAL

HUDY®



- 104002 HUDY AIR VAC - VACUUM PUMP - ON-ROAD
- 106260 HUDY TIRE ADDITIVE - TIRE GRIPPER - 50ML - V2
- 107090 HUDY BEARING CHECKING TOOL
- 107601 LIMITED EDITION - REAMER FOR BODY 0-9MM + COVER - SMALL
- 107643 LIMITED EDITION - ARM REAMER # 3.0MM
- 107702 CHASSIS DROOP GAUGE SUPPORT BLOCKS FOR 1/10 (2)
- 107712 CHASSIS DROOP GAUGE -3.0-10MM FOR 1/10 CARS (10MM)
- 107713 CHASSIS RIDE HEIGHT GAUGE STEPPED 2.0-15.0MM
- 107714 ULTRA-FINE CHASSIS DROOP GAUGE 4.0-6.6MM
- 107715 CHASSIS RIDE HEIGHT GAUGE 1.0-15.0MM (BEVELED)
- 107716 ULTRA-FINE CHASSIS RIDE HEIGHT GAUGE 3.8-8.0MM
- 107719 QUICK DOWNSTOP GAUGE TOOL 1.0-6.5MM

- 107720 CHASSIS RIDE HEIGHT GAUGE 30-17MM FOR 1/8 & 1/10 OFF-ROAD
- 107750 HUDY GRAPHITE QUICK CAMBER GAUGE 1.5°, 2°, 2.5° FOR 1/10 TC
- 107771 HUDY BODY GAUGE 1/10 ELECTRIC TOURING CARS
- 107855 HUDY PIT LED
- 107865 HUDY PROFESSIONAL DIGITAL POCKET SCALE 300G/0.01G
- 107870 HUDY FIBRE-REINFORCED TAPE - BLACK
- 107875 HUDY ULTRA DOUBLE-SIDED TAPE
- 107880 CHASSIS BALANCING TOOL (2)
- 107904 HUDY QUICK-TWEAK STATION 1/10 & 1/12 ON-ROAD
- 107905 HUDY TWEAK BOARD SET
- 108150 HUDY 1/10 TOURING CAR STAND - V3
- 108190 HUDY ALU TRAY FOR PARTS

- 108201 FLAT SET-UP BOARD FOR 1/10
- 108203 FLAT SET-UP BOARD FOR 1/10
- 108205 FLAT SET-UP BOARD FOR 1/10
- 109305 UNIVERSAL EXCLUSIVE SET-UP
- 109360 ALU NUT FOR 1/10 TOURING
- 109370 ALU SET-UP WHEEL FOR 1/10
- 109800 HUDY ALU TRAY FOR ON-ROAD
- 109840 HUDY ALU TRAY FOR 1/10 OFF-ROAD
- 109860 HUDY ALU TRAY FOR SET-UP
- 109880 HUDY ALU TRAY FOR ACCESSORIES
- 111545 LIMITED EDITION - ALLEN WRENCH
- 112045 LIMITED EDITION - ALLEN WRENCH

108201

108205

108203

199911

107865

107771

107712

107702

181040

107714

181030

183000

107719

181110

107715

293110

107713

107716

293111

107880

107905

104002

199181

109800



107855
 109880
 109840
 109305
 109370
 108190

113045
 132045
 175535
 177035
 181030
 181034
 181040
 181110
 183000
 183011
 188981
 188990

107904
 106260
 199270
 107875
 107870
 108150
 107750
 183011
 107090
 107601
 107643
 177035
 175535
 111545
 132045
 112045
 113045

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EXCLUSIVE PROFESSIONAL

HUDY

HUDY

199295-H

199290-H

106261

106200

105590

107840

107846

293080

293012

293011

293083

293082

293081

803053

803062

107861

107761

106290

293084

294017~294035

294127~294160

- 107761 HUDY ADJUSTABLE CAMBER GAUGE 80MM
- 107772 HUDY PROFESSIONAL 1/10 TC WHEEL ARCH MARKER + WHEEL ADAPTER & NUT
- 106210 HUDY GRAPHITE GREASE
- 106230 HUDY BEARING OIL
- 106200 HUDY MAGIC CLEANING GUM
- 106261 HUDY TIRE ADDITIVE - TIRE GRIPPER RED - 50ML
- 106350 HUDY PREMIUM SILICONE OIL 500 CST - 50ML
- 107861 HUDY PROFESSIONAL RACING STOPWATCH XL DISPLAY
- 106290 HUDY PROFESSIONAL SOLDER 3M LENGTH
- 107840 CLEANING BRUSH LARGE - SOFT
- 107846 CLEANING BRUSH SMALL - SOFT
- 105520 WHEEL ADAPTER FOR 1/10 ON-ROAD & 1/10 OFF-ROAD - 12MM

- 105590 HUDY WHEEL BALANCING PUTTY
- 181090 HUDY SPECIAL TOOL FOR TURNBUCKLES & NUTS
- 181091 HUDY TURNBUCKLE WRENCH 3 & 4MM - V2
- 803053 HUDY 1/10 TC CARPET TIRES C3-28 (4)
- 803062 HUDY 1/10 TC TIRES A1-36 - ASPHALT (4)
- 293011 HUDY STAINLESS STEEL BATTERY WEIGHT 35G
- 293012 HUDY STAINLESS STEEL BATTERY WEIGHT FOR NARROW BATTERY PACK 35G
- 293080 LEAD WEIGHTS 4X5G & 4X10G WITH 3M GLUE
- 293081 HUDY PURE TUNGSTEN WEIGHT 5G
- 293082 HUDY PURE TUNGSTEN WEIGHT 10G
- 293083 HUDY PURE TUNGSTEN WEIGHT 15G
- 293084 HUDY PURE TUNGSTEN WEIGHT 10G (4)
- 294017~294035 PRECISION BALANCING CHASSIS WEIGHT 10G (4)
- 294127~294160



293491~293493

293401~293403

293497~293499

293404~293406

293501~293503

293407~293409

- 293311 GRAPHITE REAR WING SIDE PLATE 0.5MM - 1/10 ELECTRIC (2)
- 293403 ALU CLAMP SERVO HORN - FUTABA, SAVÖX - OFFSET 1-HOLE M3 - 25T
- 293493 ALU SERVO HORN - FUTABA, SAVÖX - OFFSET 1-HOLE M3 - 25T - V2
- 294023 HUDY ALU ULTRA-LIGHT PINION GEAR - HARD COATED - 23T / 48
- 294140 HUDY ALU ULTRA-LIGHT PINION GEAR - HARD COATED - 40T / 64
- 294156 HUDY ALU ULTRA-LIGHT PINION GEAR - HARD COATED - 56T / 64
- 298012 HUDY PARTS BOX - 10-COMPARTMENTS
- 298013 HUDY SPRINGS BOX - 10-COMPARTMENTS
- 298014 HUDY PARTS BOX - 8-COMPARTMENTS
- 298015 HUDY PARTS CASE - 290 X 195MM
- 298016 HUDY TINY HARDWARE BOX - 4-COMPARTMENTS
- 298017 HUDY TINY ONE-PIECE HARDWARE BOX - 8-COMPARTMENTS

- 298018 HUDY TINY HARDWARE BOX - 8-COMPARTMENTS
- 298019 HUDY DIFF BOX - 8-COMPARTMENTS
- 199280M-H HUDY HARD CASE - 140X110X95MM - OIL BAG MEDIUM
- 199290-H HUDY HARD CASE - 235X190X75MM - ACCESSORIES / ENGINE BAG
- 199295-H HUDY HARD CASE - 280X150X85MM - ACCESSORIES BAG LARGE
- 199296-H HUDY HARD CASE - 120X85X46MM - ACCESSORIES / STOP WATCH

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