

1/10 LUXURY ELECTRIC TOURING CAR FWD

XRAY X4F



INSTRUCTION MANUAL
FOR X4F'26 EDITION

BEFORE YOU START

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

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

Read carefully and fully understand the instructions before beginning assembly.

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**

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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Slovakia, EUROPE
Phone: 421-32-7401100
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E-mail: info@teamxray.com

XRAY USA

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

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

SAFETY PRECAUTIONS

Contains:

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

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

CAUTION: CANCER HAZARD

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

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

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

this model will void guaranty immediately.

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



IMPORTANT NOTES - GENERAL

- This product is not suitable for children under 16 years of age without the direct supervision of a responsible and knowledgeable adult.
- Carefully read all manufacturers warnings and cautions for any parts used in the construction and use of your model.
- Assemble this kit only in places away from the reach of very small children.
- First-time builders and users should seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.
- Exercise care when using tools and sharp instruments.
- Take care when building, as some parts may have sharp edges.
- Keep small parts out of reach of small children. Children must not be allowed to put any parts in their mouth, or pull vinyl bag over their head.
- Read and follow instructions supplied with paints and/or cement, if used (not included in kit).
- Immediately after using your model, DO NOT touch equipment on the model such as the motor and speed controller, because they generate high temperatures. You may seriously burn yourself seriously touching them.
- Follow the operating instructions for the radio equipment at all times.
- DO NOT put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury as your finger, hair, clothes, etc. may get caught.
- Be sure that your operating frequency is clear before turning on or running your model, and never share the same frequency with somebody else at the same time. Ensure that others are aware of the operating frequency you are using and when you are using it.
- Use a transmitter designed for ground use with RC cars. Make sure that no one else is using the same frequency as yours in your operating area. Using the same frequency at the same time, whether it is driving, flying or sailing, can cause loss of control of the RC model, resulting in a serious accident.
- Always turn on your transmitter before you turn on the receiver in the car. Always turn off the receiver before turning your transmitter off.
- Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- Disconnect the battery pack before storing your model.
- When learning to operate your model, go to an area that has no obstacles that can

damage your model if your model suffers a collision.

- Remove any sand, mud, dirt, grass or water before putting your model away.
- If the model behaves strangely, immediately stop the model, check and clear the problem.
- To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
- The model car is not intended for use on public places and roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- Because the model car is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Since radio interference can cause momentary loss of control, always allow a safety margin in all directions around the model in order to prevent collisions.
- DO NOT use your model:
 - Near real cars, animals, or people that are unaware that an RC car is being driven.
 - In places where children and people gather
 - In residential districts and parks
 - In limited indoor spaces
 - In wet conditions
 - In the street
 - In areas where loud noises can disturb others, such as hospitals and residential areas.
 - At night or anytime your line of sight to the model may be obstructed or impaired in any way.

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

XRAY



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.

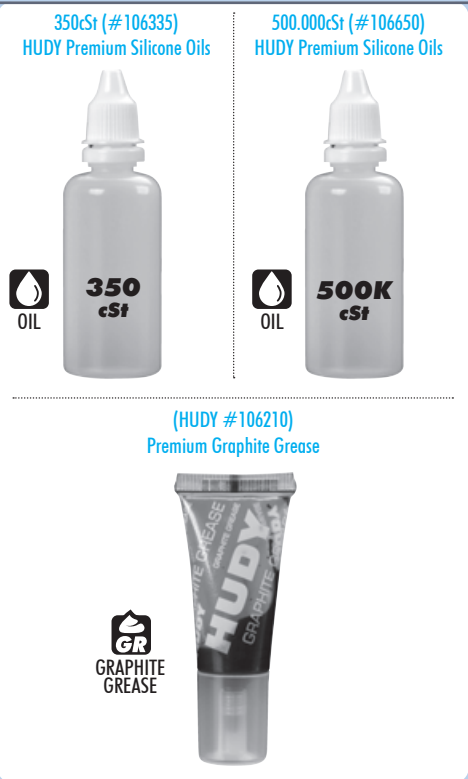
We do reserve all rights to change any specification without prior notice. All rights reserved.

X4F'26

TOOLS REQUIRED



INCLUDED



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 #803041 SLICK PRECUT)</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.

VIDEO TECH TIP



NOTE!

Please note that the videos are made specifically for the X4, but will contain very good information that may apply to the X4F as well.



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:

- 304911 **STYLE A** - indicates parts that are included in the bag marked for the section.
- 301024 **STYLE B** - indicates parts that are included in the box.
- 304902 **STYLE C** - indicates parts that are already assembled from previous steps.
- 301085 **STYLE D** - indicates parts that are optional.

CHASSIS PREPARATION



VIDEO TECH TIP

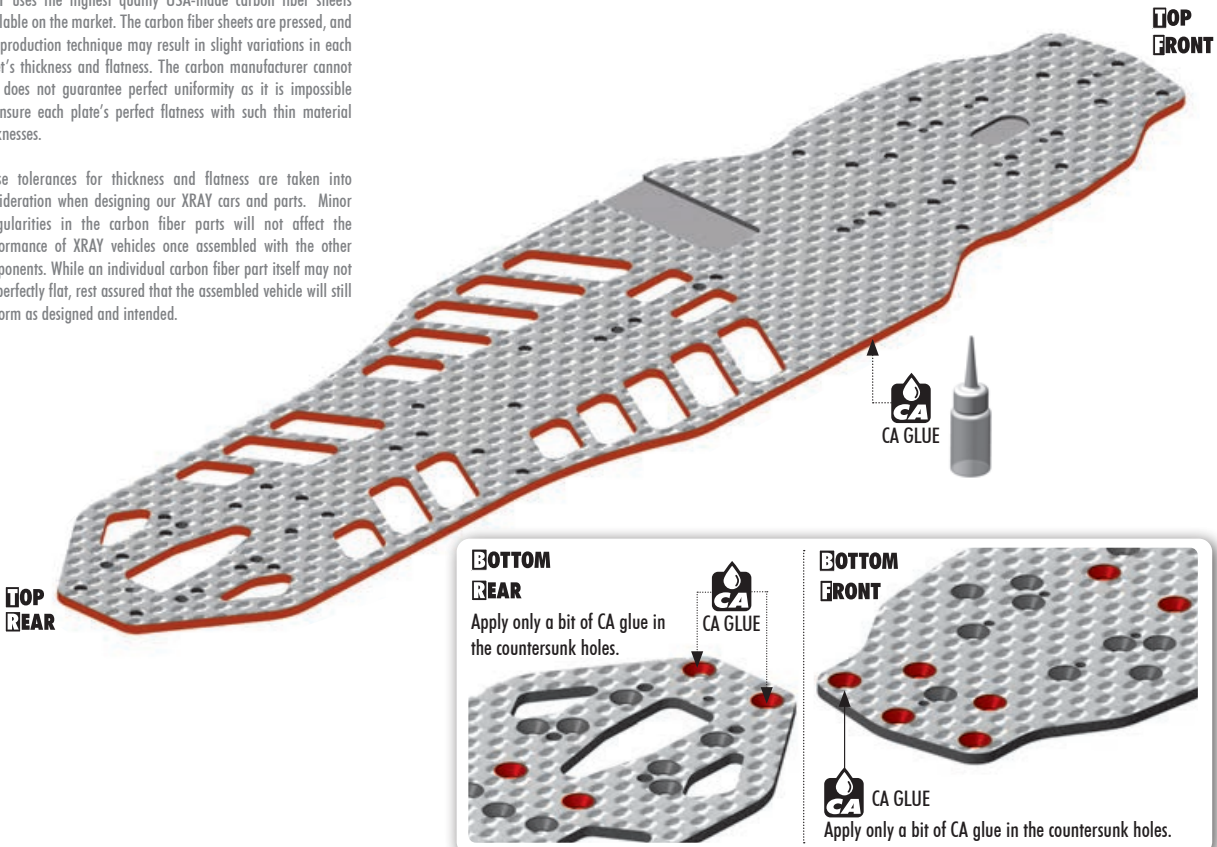


CHASSIS PREPARATION

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

XRAY uses the highest quality USA-made carbon fiber sheets available on the market. The carbon fiber sheets are pressed, and this production technique may result in slight variations in each sheet's thickness and flatness. The carbon manufacturer cannot and does not guarantee perfect uniformity as it is impossible to ensure each plate's perfect flatness with such thin material thicknesses.

These tolerances for thickness and flatness are taken into consideration when designing our XRAY cars and parts. Minor irregularities in the carbon fiber parts will not affect the performance of XRAY vehicles once assembled with the other components. While an individual carbon fiber part itself may not lay perfectly flat, rest assured that the assembled vehicle will still perform as designed and intended.



TIP

All ball-bearings are factory pre-oiled. Regularly service, clean and lubricate all ball-bearings with **HUDY Bearing Oil (#106230)**. Replace any bearings that develop a "gritty" feeling to prevent inefficiency and avoid rear axle bearing blowouts.

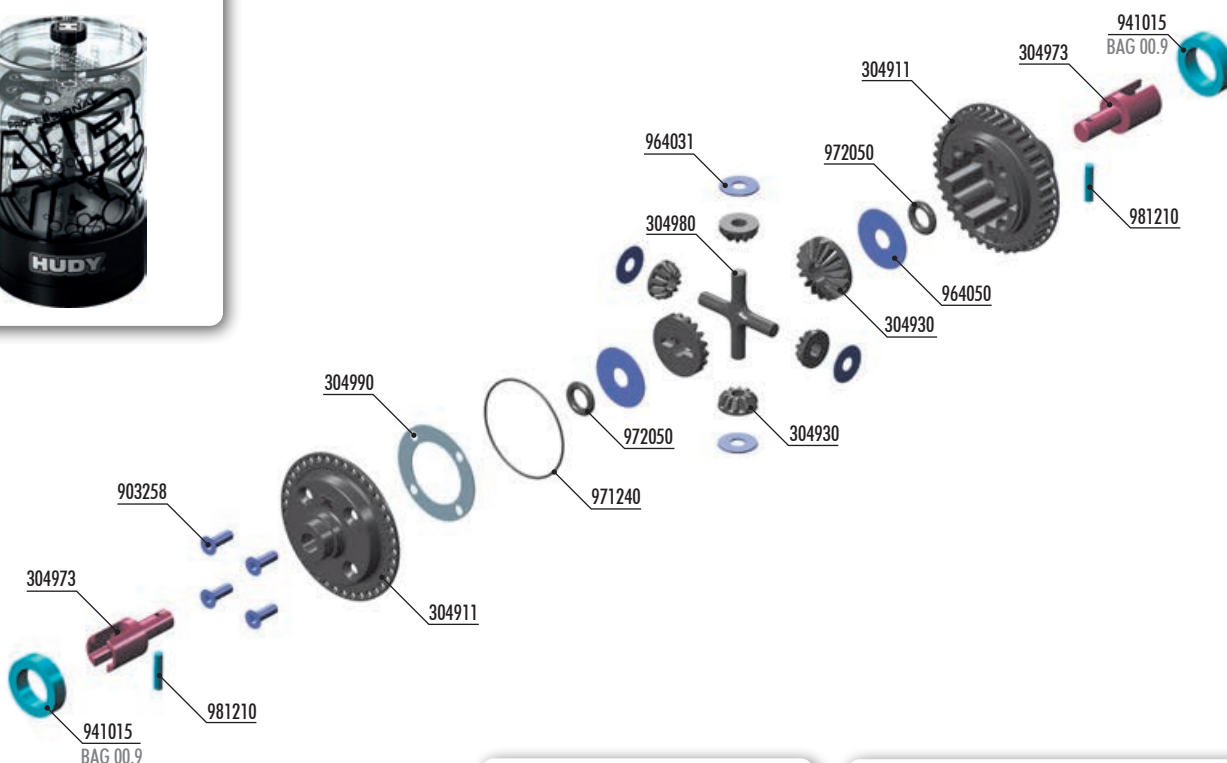
Make sure to use only original XRAY ball-bearings, which all have specific tolerances, axial and radial play, and are all individually selected. Using 3rd party ball-bearings may result in failures and damage to other parts.



1. GEAR DIFFERENTIAL



#104002
HUDY AIR VAC – VACUUM PUMP



#304972
ALU GEAR DIFF CVD BB DRIVESHAFT
ADAPTER - SWISS 7075 T6 (2)



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



BAG

01.2

304902 X4 BB GEAR DIFFERENTIAL - SET
304911 X4 COMPOSITE GEAR DIFF. CASE WITH 38T PULLEY & COVER
304930 COMPOSITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)
304973 STEEL GEAR DIFF BB DRIVESHAFT ADAPTER - HUDY SPRING STEEL™ (2)
304980 COMPOSITE GEAR DIFF CROSS PIN
304990 DIFF GASKET (4)

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)

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



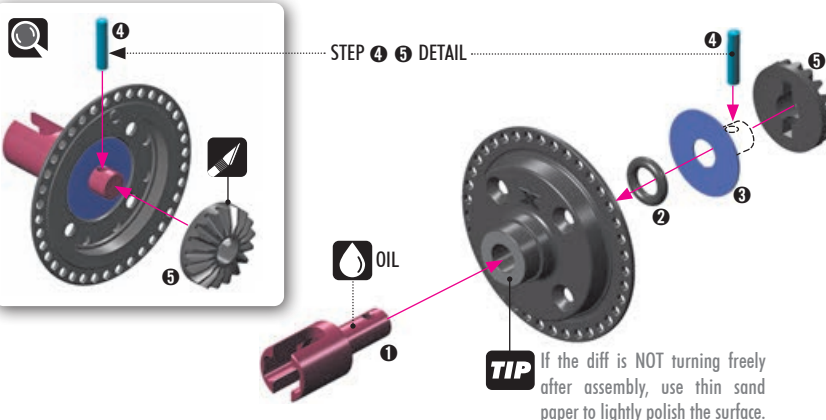
1x 964050
S 5x15x0.3



1x 972050
O 5x2



1x 981210
P 2x10



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



#304972
ALU GEAR DIFF CVD BB DRIVESHAFT
ADAPTER - SWISS 7075 T6 (2)



1. GEAR DIFFERENTIAL



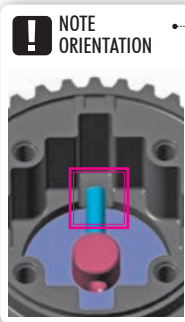
1x 964050
S 5x15x0.3



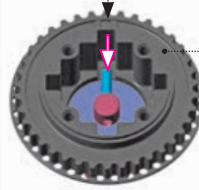
1x 972050
O 5x2



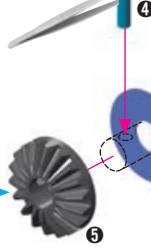
1x 981210
P 2x10



NOTE ORIENTATION



STEP 4 DETAIL
Use tweezers to insert pin.

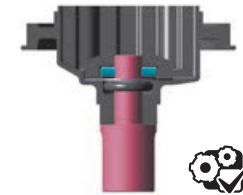


If the diff is NOT turning freely after assembly, use thin sand paper to lightly polish the surface.

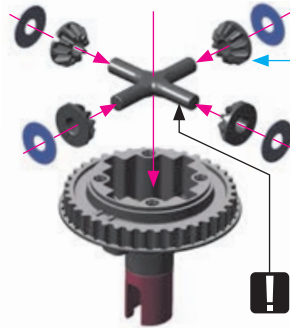
TIP



CUTAWAY VIEW



4x 964031
S 3.5x10x0.2



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

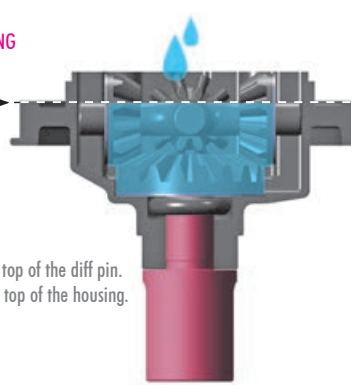
! If the cross does NOT enter into the diff freely, use fine sand paper to lightly polish the ends of the cross.



INITIAL SETTING
500.000cSt

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:



12.00g

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



12.00g + 1.50g = 13.50g



13.50g

1 Put the diff (without oil) on the scale and check the weight (approximately 12.00g)

2 Slowly pour oil into the diff and watch the weight. Add 1.50g of oil into the diff. The approximate weight of the diff including oil is 13.50g.



VIDEO TECH TIP



REAR DIFFERENTIAL

TIPS FOR DIFFERENTIALS

- 100.000cSt (HUDY #106610)
- 150.000cSt (HUDY #106615)
- 200.000cSt (HUDY #106620)
- 300.000cSt (HUDY #106630)
- 500.000cSt (HUDY #106650) **INITIAL SETTING**
- 1 000.000cSt (HUDY #106692)
- 2 000.000cSt (HUDY #106694)

Lower viscosity oil will increase steering but reduce traction.

LOWER VISCOSITY

INITIAL SETTING

HIGHER VISCOSITY

Higher viscosity oil will improve forward traction and increase stability, but reduces steering.



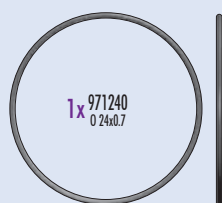
TIP To make sure that all the air is removed from the diff oil, we recommend using the HUDY Air Vac.

#104002 or #104003
HUDY AIR VAC – VACUUM PUMP

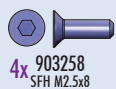
TIP To make the front differential thicker, you can use **#106200 HUDY Magic Cleaning Gum** instead of oil.

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

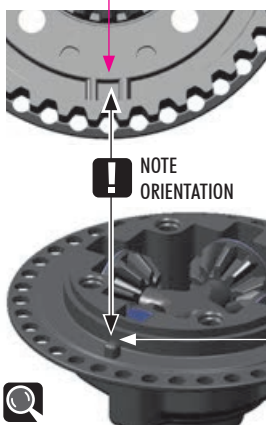
1. GEAR DIFFERENTIAL



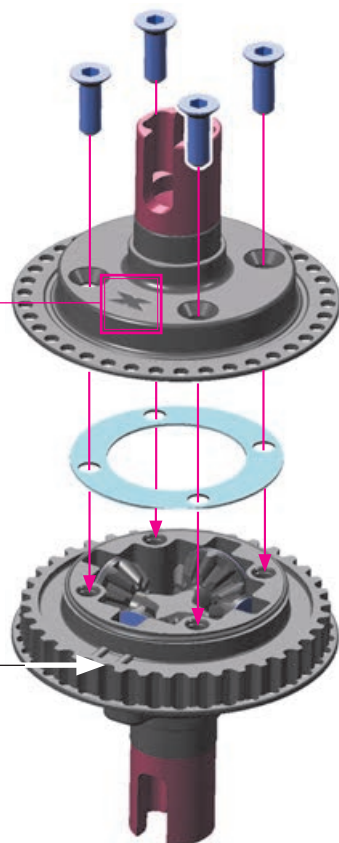
After disassembling the gear diff, the large O-ring may have an increased size and may be more difficult to re-install. We recommend either inserting the old O-ring carefully in the diff cover, or installing a new O-ring if the old one cannot be made to fit properly.



BOTTOM



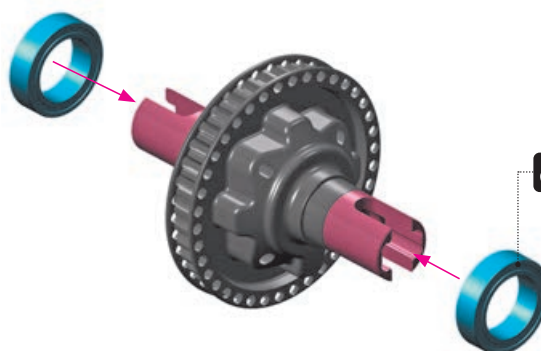
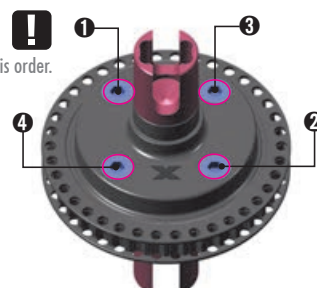
Marked
symbol
"X"



Tighten the screws equally but
DO NOT tighten them completely.

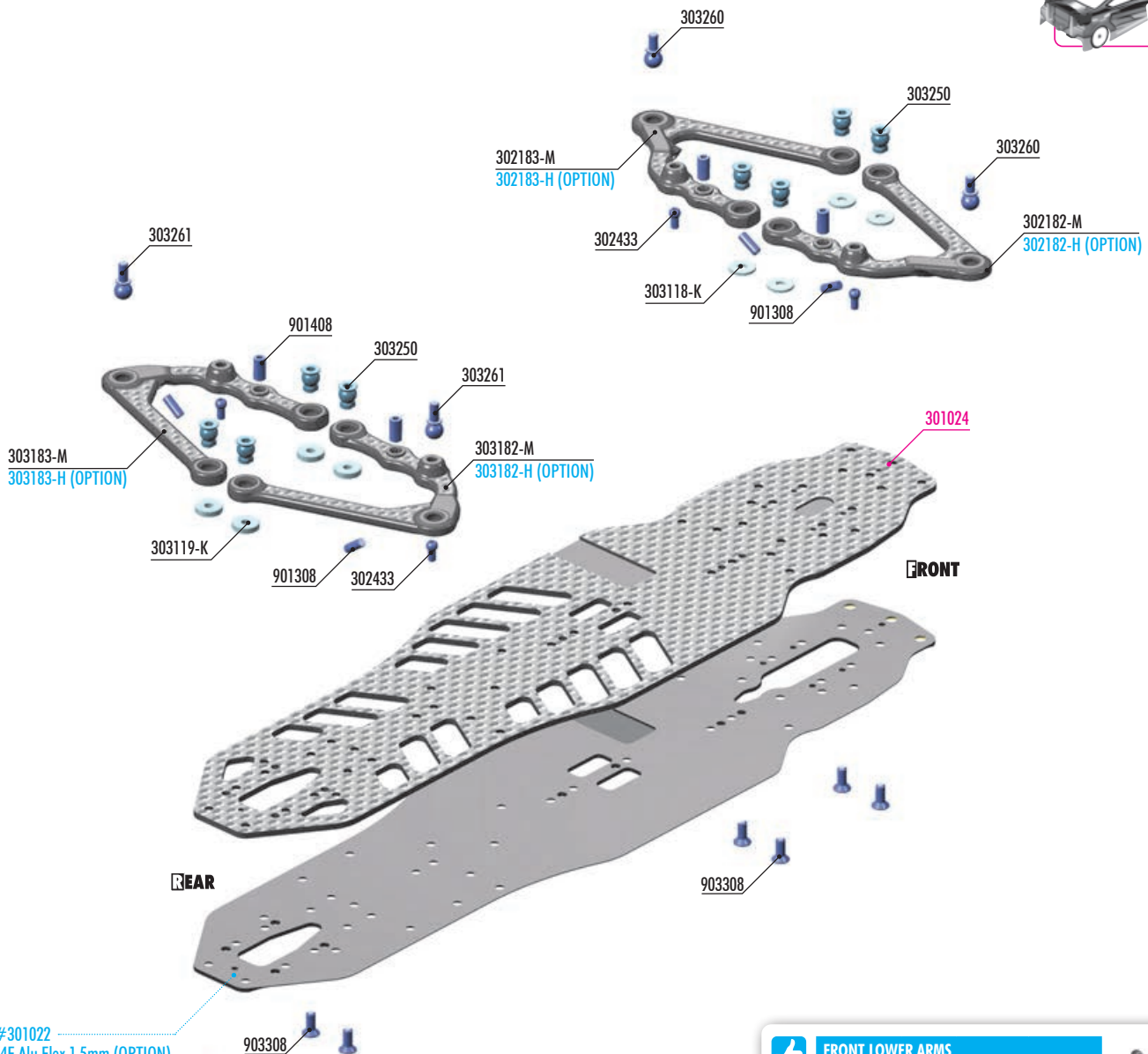


Finish tightening in this order.



BEARING OIL
(HUDY #106230)

2. FRONT & REAR SUSPENSION



#301022
X4F Alu Flex 1.5mm (OPTION)



1.5mm chassis requires special 110deg countersunk screws.



#913300
HEX SCREW 110° FOR 1.5MM CHASSIS - HUDY SPRING STEEL (33)



903308



#302121
FRONT ROLL-CENTER SPACER (2)



#302122
REAR ROLL-CENTER SPACER (2)



FRONT LOWER ARMS

Part Number	Side	Material	Status
#302183-M	LEFT	MEDIUM	INCLUDED
#302182-M	RIGHT	MEDIUM	INCLUDED
#302183-H	LEFT	HARD	OPTION
#302182-H	RIGHT	HARD	OPTION
#302183-G	LEFT	GRAPHITE	OPTION
#302182-G	RIGHT	GRAPHITE	OPTION



REAR LOWER ARMS

Part Number	Side	Material	Status
#303183-M	LEFT	MEDIUM	INCLUDED
#303182-M	RIGHT	MEDIUM	INCLUDED
#303183-H	LEFT	HARD	OPTION
#303182-H	RIGHT	HARD	OPTION
#303183-G	LEFT	GRAPHITE	OPTION
#303182-G	RIGHT	GRAPHITE	OPTION



BAG

02

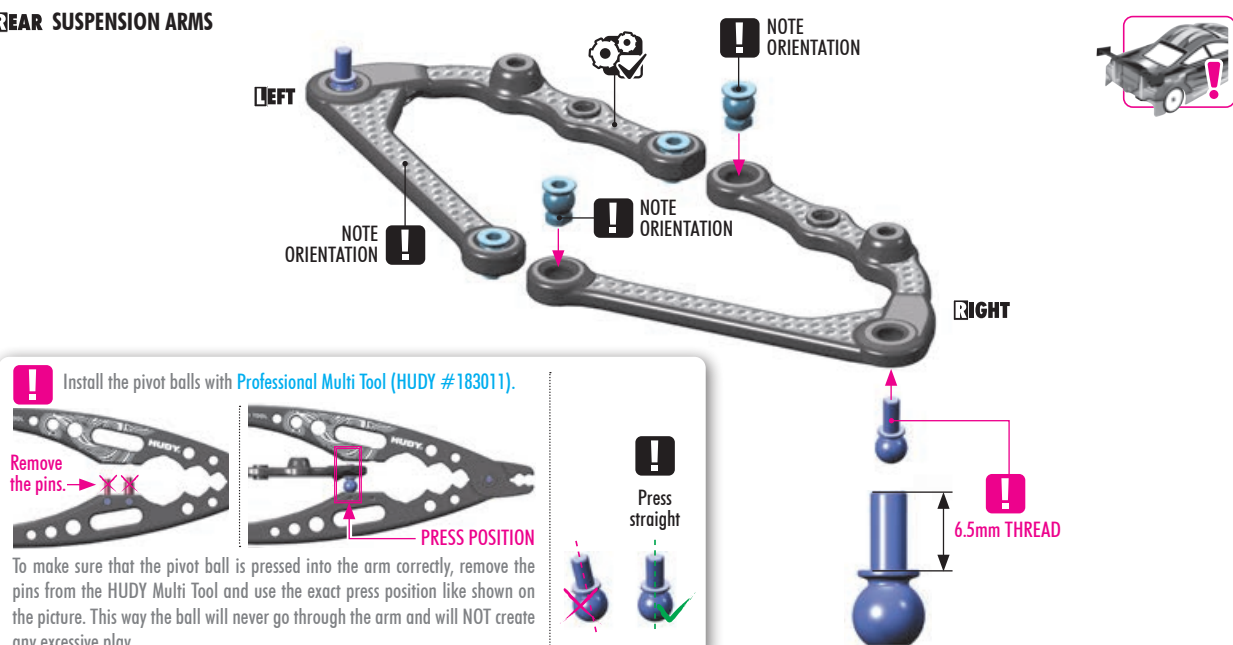
- 302182-M X4 CFF™ FRONT LOWER ARM - INNER SHOCK POSITION - MEDIUM - RIGHT
- 302183-M X4 CFF™ FRONT LOWER ARM - INNER SHOCK POSITION - MEDIUM - LEFT
- 302433 ANTI-ROLL BAR STEEL BALL END 3.8mm WITH 4mm THREAD (2)
- 303118-K ALU SHIM 3x9x1.0mm - BLACK (10)
- 303119-K ALU SHIM 3x9x2.0mm - BLACK (10)
- 303182-M X4 CFF™ REAR LOWER ARM - INNER SHOCK POSITION - MEDIUM - RIGHT
- 303183-M X4 CFF™ REAR LOWER ARM - INNER SHOCK POSITION - MEDIUM - 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)
- 303261 X4 PIVOT BALL 6.0mm WITH M3x6.5mm THREAD - HUDY SPRING STEEL™ (2)

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

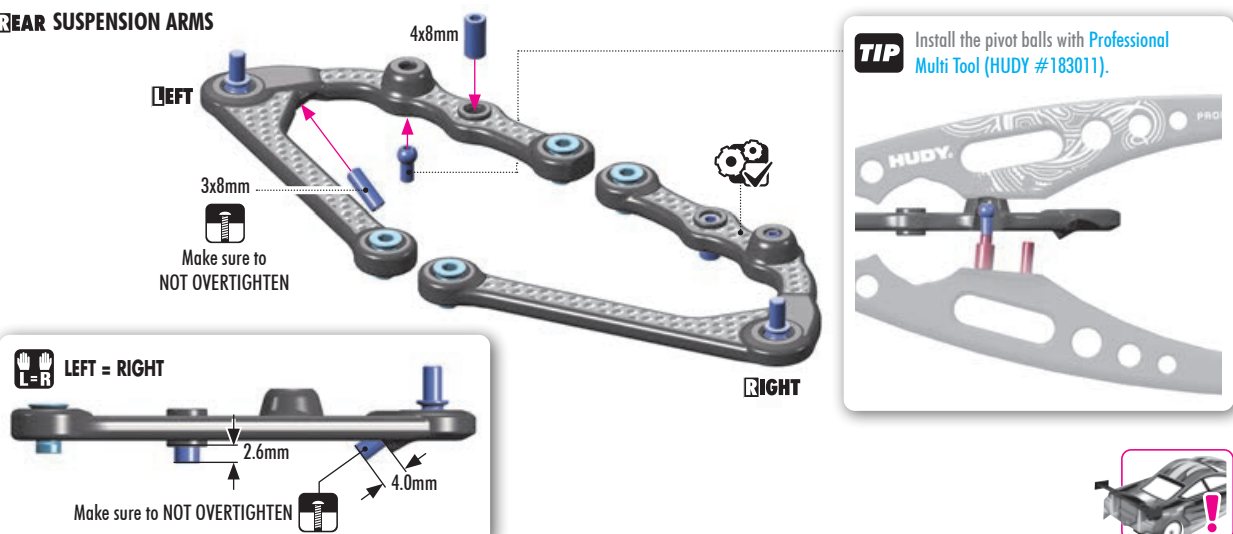
301024 CARBON CHASSIS 2.2mm

2. FRONT & REAR SUSPENSION

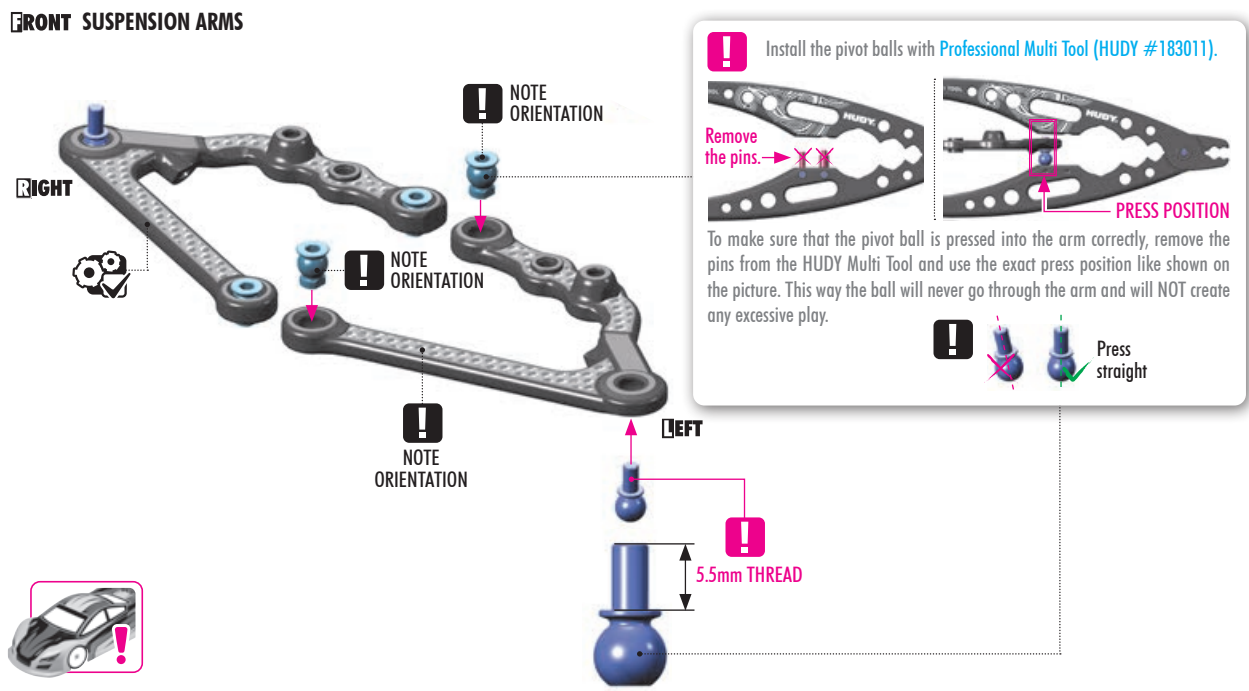
REAR SUSPENSION ARMS



REAR SUSPENSION ARMS



FRONT SUSPENSION ARMS



2x 901308
SB M3x8



2x 901408
SB M4x8



▶ VIDEO TECH TIP



LOWER ARMS

2. FRONT & REAR SUSPENSION

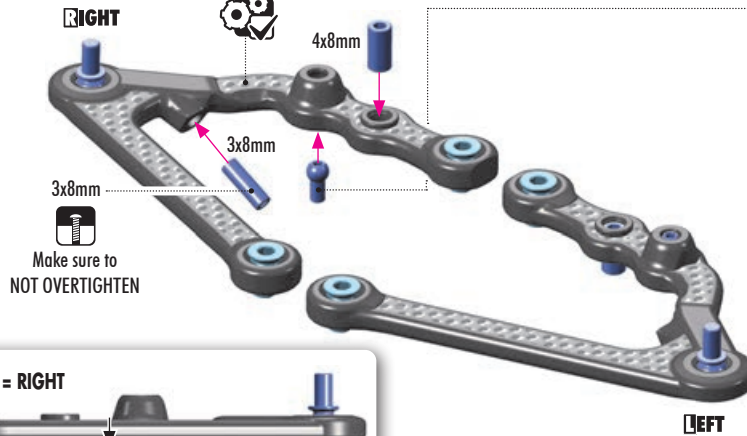


2x 901308
SB M3x8

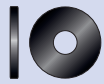
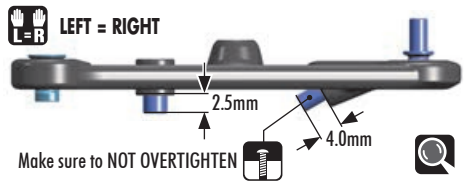
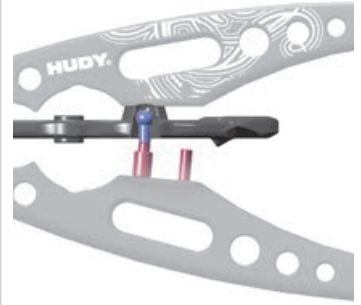


2x 901408
SB M4x8

FRONT SUSPENSION ARMS



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



4x 303118-K
SHIM 3x9x1



4x 303119-K
SHIM 3x9x2

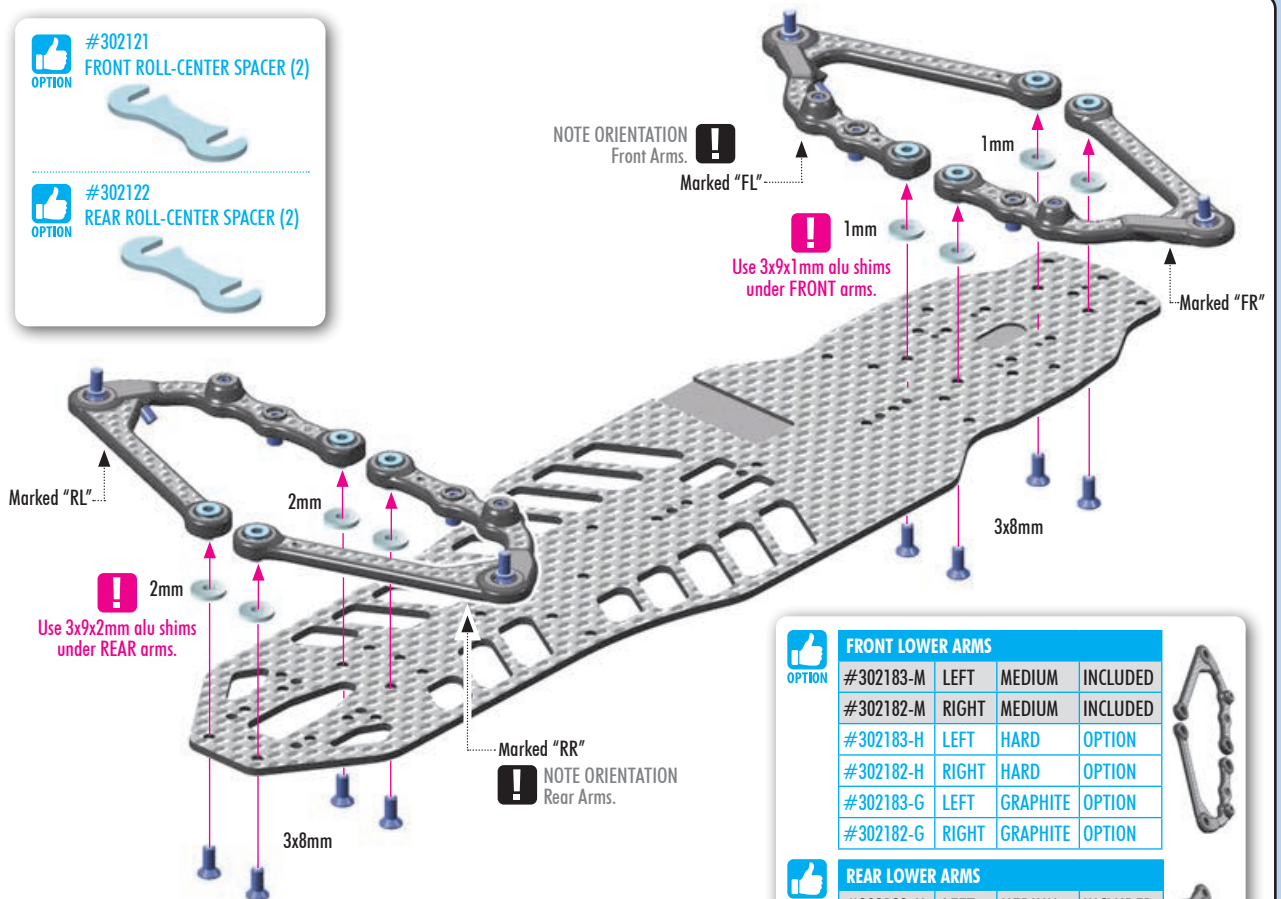


8x 903308
SFH M3x8

#302121
FRONT ROLL-CENTER SPACER (2)



#302122
REAR ROLL-CENTER SPACER (2)



VIDEO TECH TIP



ROLL-CENTER



CHASSIS ALTERNATIVES

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.



OPTION	FRONT LOWER ARMS				
	#302183-M	LEFT	MEDIUM	INCLUDED	
	#302182-M	RIGHT	MEDIUM	INCLUDED	
	#302183-H	LEFT	HARD	OPTION	
	#302182-H	RIGHT	HARD	OPTION	
	#302183-G	LEFT	GRAPHITE	OPTION	
	#302182-G	RIGHT	GRAPHITE	OPTION	

OPTION	REAR LOWER ARMS				
	#303183-M	LEFT	MEDIUM	INCLUDED	
	#303182-M	RIGHT	MEDIUM	INCLUDED	
	#303183-H	LEFT	HARD	OPTION	
	#303182-H	RIGHT	HARD	OPTION	
	#303183-G	LEFT	GRAPHITE	OPTION	
	#303182-G	RIGHT	GRAPHITE	OPTION	

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-traction asphalt conditions, we recommend the **HARD** suspension arms.

For very high traction conditions both carpet and asphalt, optional **GRAPHITE** arms will help to make the car more stable and easier to drive. Graphite arms should reduce chassis roll, resulting in improved cornering speed.

FRONT

REAR

#301578
ALU UPPER CLAMPS - 1.0mm

#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-O	84T / 48P	OPTION	

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

#303768
ALU CHASSIS T-BRACE - 7075 T6

#303767
BRASS CHASSIS T-BRACE - 8g

#ALU CASTER BUSHINGS			
#302310	FRONT 3° / REAR 5.5° or 0.5°	1 Dot	INCLUDED
#302311	FRONT 4° / REAR 4.5° or 1.5°	2 Dots	OPTION
#302312	FRONT 5° / REAR 3.5° or 2.5°	3 Dots	INCLUDED

#305578-O FIXED PULLEY FOR LAYSHAFT WITH BEARINGS 20T - GRAPHITE (2)	

#302064-K ALU ADJ. BALL-BEARING HUB + 1MM (2)	

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

3. CENTRAL TRANSMISSION



2x 303126-K
SHIM 3x6x5



4x 902305
SH M3x5



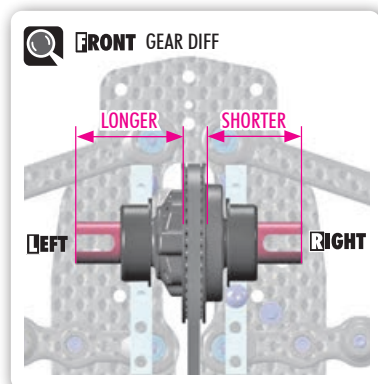
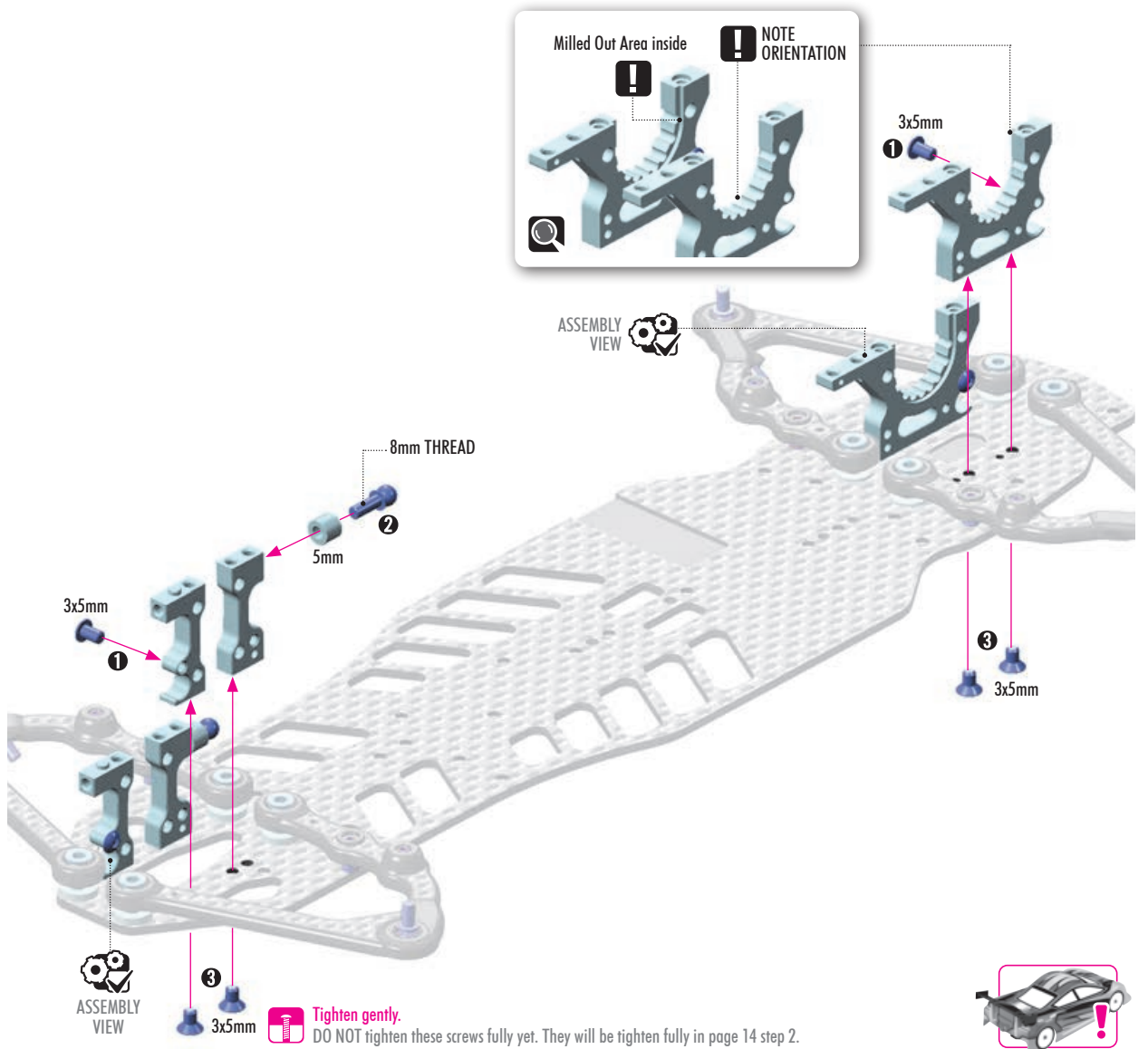
8x 903305
SFH M3x5



VIDEO TECH TIP



BUILDING THE
BULKHEADS



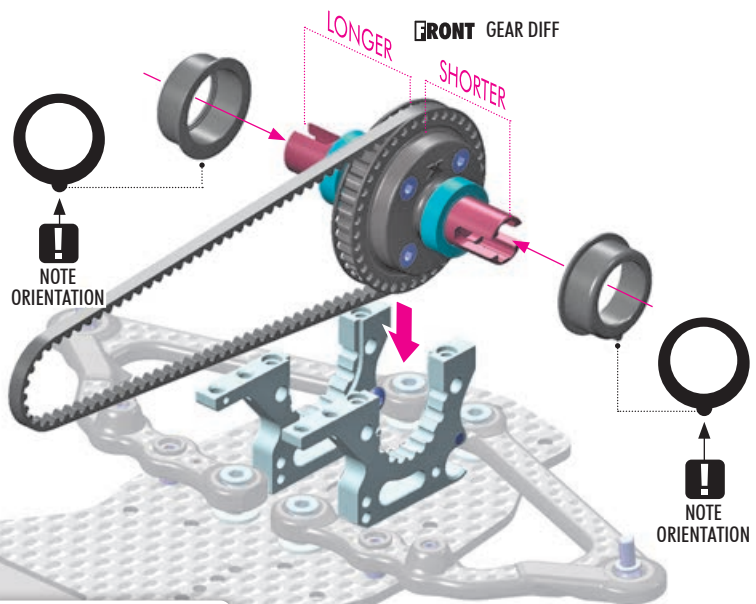
#302064-K
ALU ADJ. BALL-BEARING
HUB +1MM (2)



+1 Extra HIGH position (tab in bottom notch) increases rotation.

+1 Extra LOW position (tab in top notch) generates more traction and increases stability.

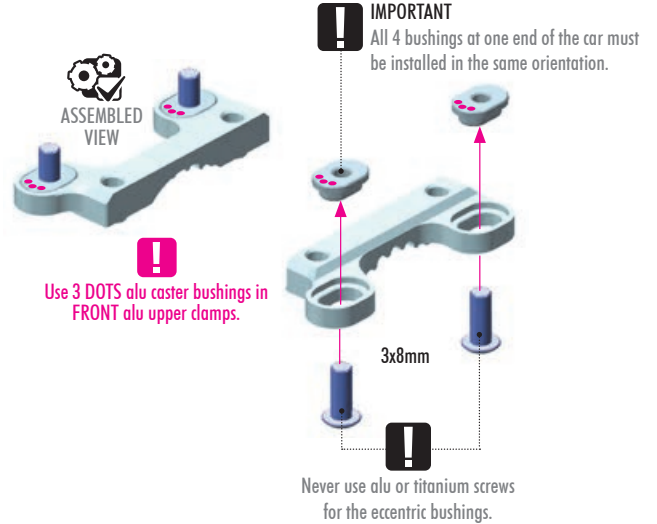
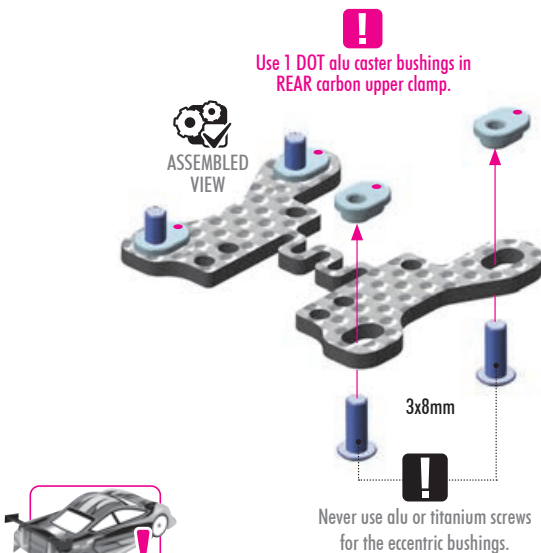
#302063-K
ALU ADJUSTMENT BALL-BEARING HUB (2)



3. CENTRAL TRANSMISSION



NOTE ORIENTATION FOR ALL PARTS



ALU CASTER BUSHINGS

#302310	FRONT 3° / REAR 5.5° or 0.5°	1 Dot	INCLUDED
#302311	FRONT 4° / REAR 4.5° or 1.5°	2 Dots	OPTION
#302312	FRONT 5° / REAR 3.5° or 2.5°	3 Dots	INCLUDED



#301578 ALU UPPER CLAMPS - 1.0mm



The new upper clamps move the inner pivot 1.0mm closer to center. This position lengthens the upper arm and reduces camber gain to free up the car. Mid corner steering improves in long sweepers, and traction rolling is reduced in very high traction carpet conditions. Recommended for large open tracks or high traction carpet tracks.

CASTER ADJUSTMENT

FRONT CASTER

For most conditions, 5.0 deg front caster is a good starting point. Decreasing caster increases entry steering but will cause more on-power push.

REAR CASTER

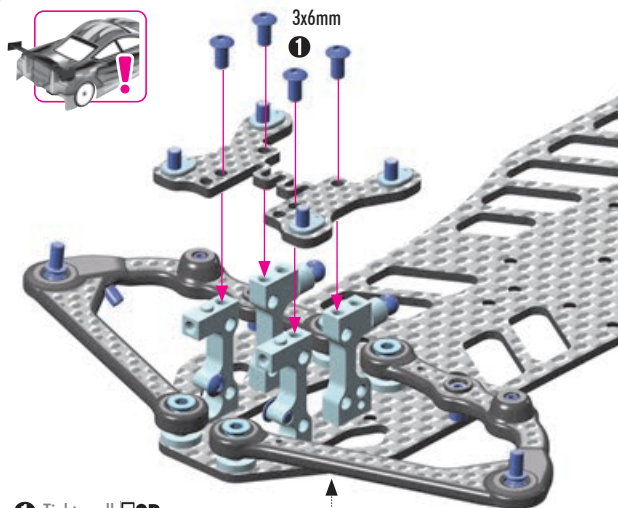
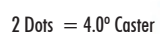
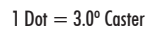
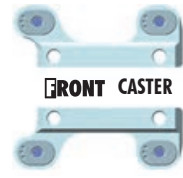
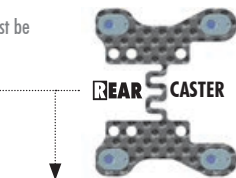
A good starting point for rear caster is 0.5°.

0.5 caster generates more cornerspeed and makes the car easier to drive in long sweepers. Recommended for both carpet and asphalt tracks.

5.5 caster improves rotation and steering, mainly recommended for tight tracks.

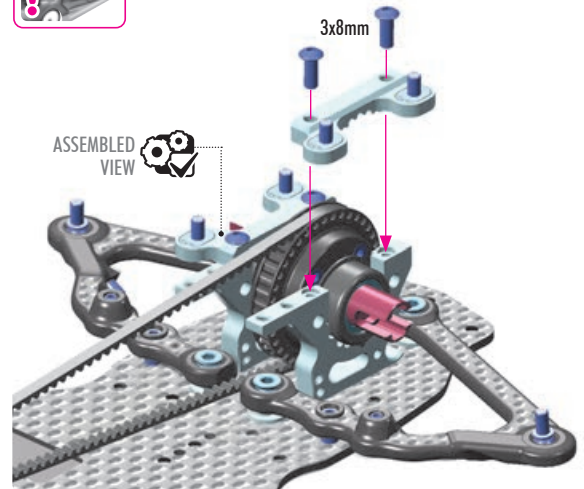
IMPORTANT

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



1 Tighten all TOP screws.

2 Tighten all BOTTOM chassis screws.



3. CENTRAL TRANSMISSION

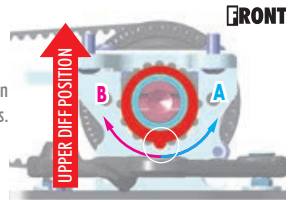


FRONT BELT TENSION ADJUSTMENT

Front diff **UPPER** position - tab in bottom notch - provides **more steering**, but **less front traction**

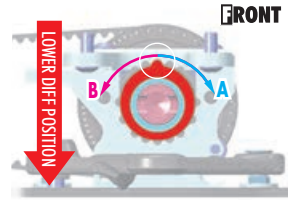
Front diff **LOWER** position - tab in top notch - provides **more front traction**, but makes the car **push on-power**.

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



INITIAL POSITION FOR CARPET/ASPHALT
Place tab in this **BOTTOM NOTCH**

Recommended for **low-traction** tracks.



TO LOOSEN REAR BELT: Rotate both front nylon hubs in arrow direction **A**

TO TIGHTEN REAR BELT: Rotate both front nylon hubs in arrow direction **B**



VIDEO TECH TIP



DIFF HEIGHT



BELT TENSION ADJUSTMENT



3x 902303
SH M3x4



2x 930407
BB 4x7x2.5

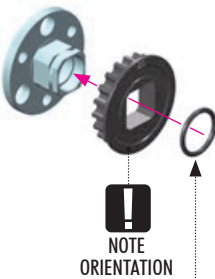


1x 970050
O 5x1



1x 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)



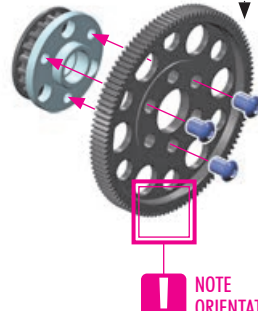
#305578-0
FIXED PULLEY FOR
LAYSHAFT WITH
BEARINGS 20T
GRAPHITE (2)



2. ALTERNATIVE

64P OFFSET SPUR GEAR

INITIAL SETTING



CUTAWAY VIEW

NOTE OFFSET ORIENTATION

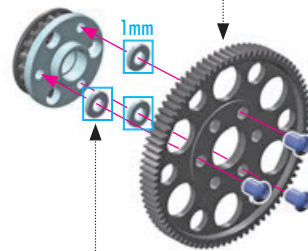


OFFSET SPUR GEARS 64P

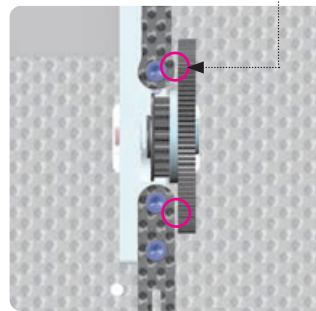
OPTION			
#305860	90T	OPTION	
#305862	92T	OPTION	
#305866	96T	OPTION	
#305866-0	96T	OPTION	
#305869	99T	OPTION	
#305870	100T	INCLUDED	
#305870-0	100T	OPTION	
#305874	104T	OPTION	
#305876	106T	OPTION	
#305878	108T	OPTION	
#305880	110T	OPTION	
#305880-0	110T	OPTION	
#305882	112T	OPTION	
#305884	114T	OPTION	

2. ALTERNATIVE

48P SPUR GEAR



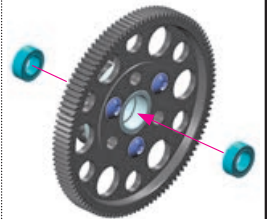
When using XRAY 48P spur gears or aftermarket spur gears without an offset, use the 3x5x1mm shims (#303141 NOT included) between the gear and layshaft to create the necessary clearance from the top deck.



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.



3. CENTRAL TRANSMISSION



1x 903306
SFH M3x6



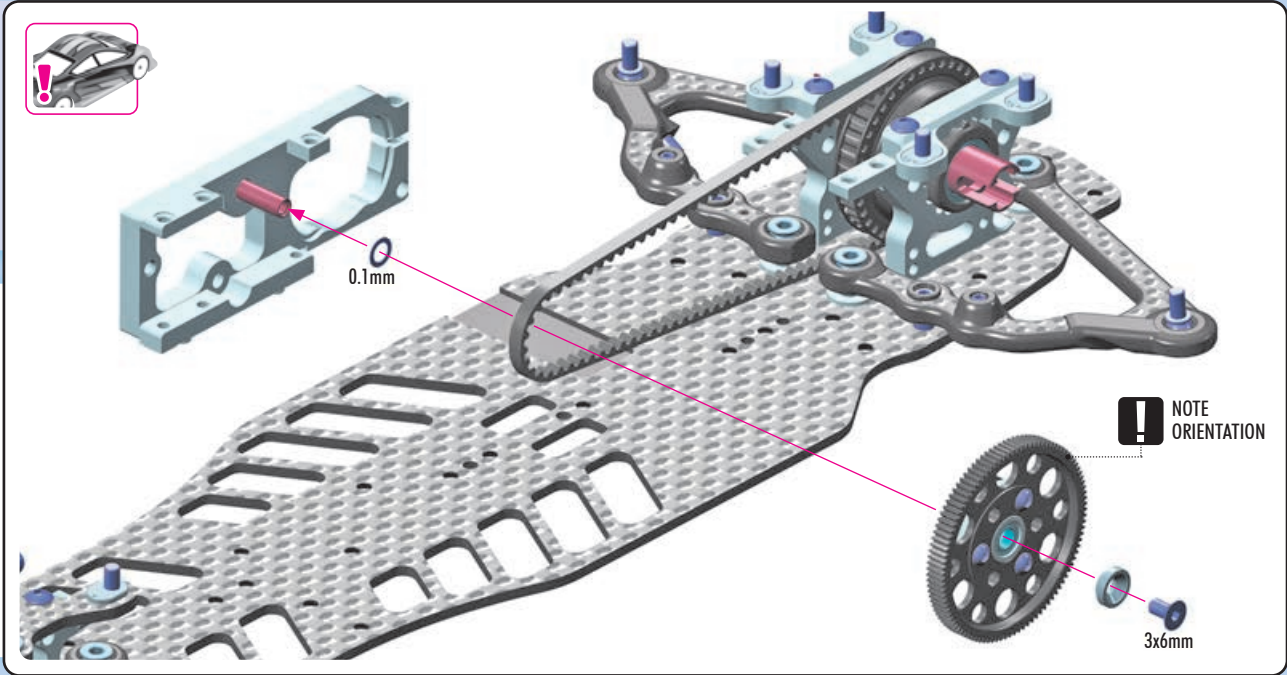
1x 962042
S 4x6x0.1



VIDEO TECH TIP

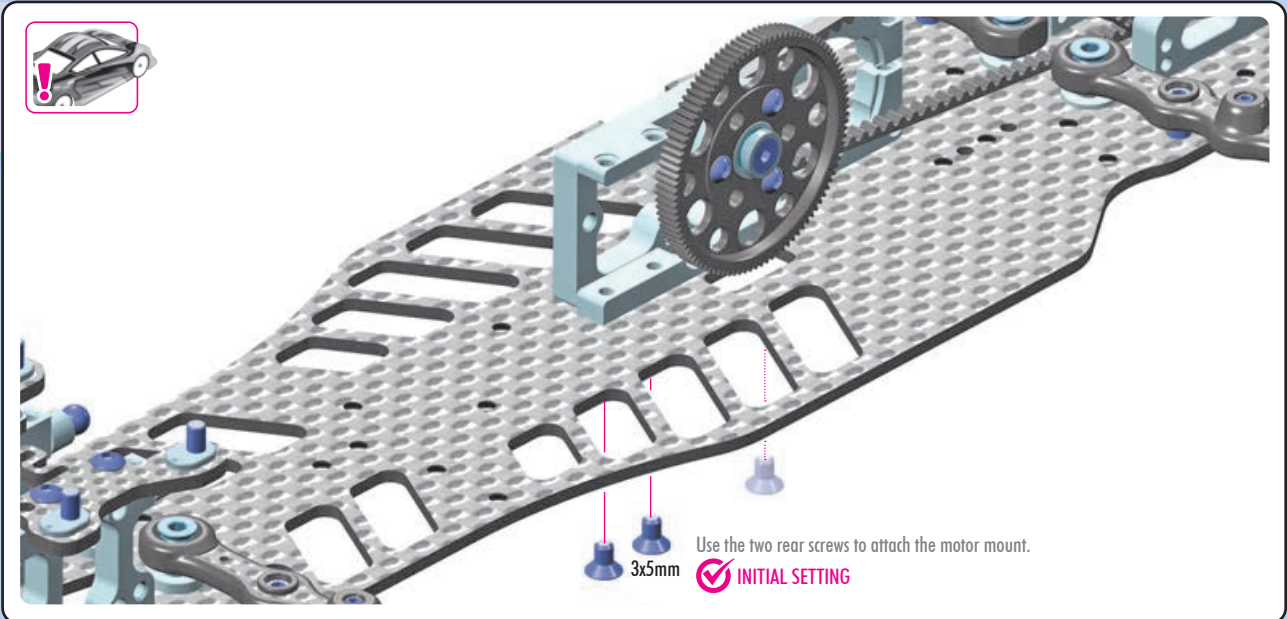


BELT TENSION
ADJUSTMENT





3x 903305
SFH M3x5



MOTOR MOUNT FLEX ADJUSTMENT



VIDEO TECH TIP

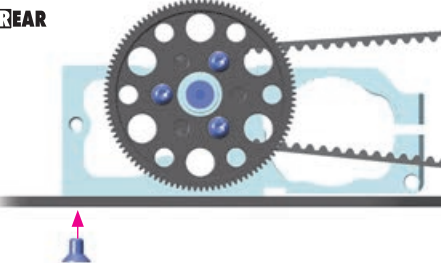


MOTOR MOUNT FLEX

SOFT

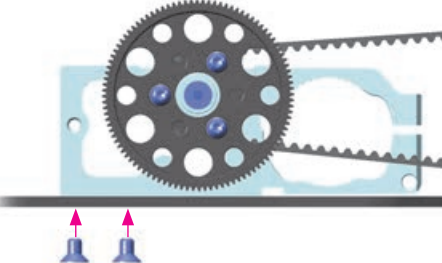
Use only the rearmost screw to attach the motor mount as shown below. This allows more central chassis flex and will improve traction, especially on power. Rear grip will improve through the entire corner. This setting is recommended for low to medium traction conditions, both on asphalt and carpet.

REAR



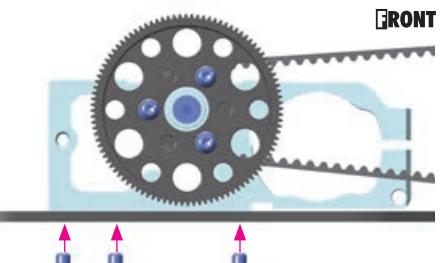
MEDIUM INITIAL SETTING

Use the two rear screws to attach the motor mount as shown, and DO NOT install the very front screw. This configuration is a compromise between stability and initial response. The additional rear screw improves stability with a slight reduction in steering.



STIFF

Use all three screws to attach the motor mount for maximum stability. Recommended for high traction surfaces.



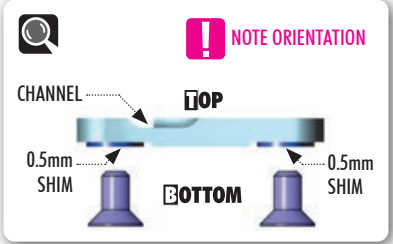
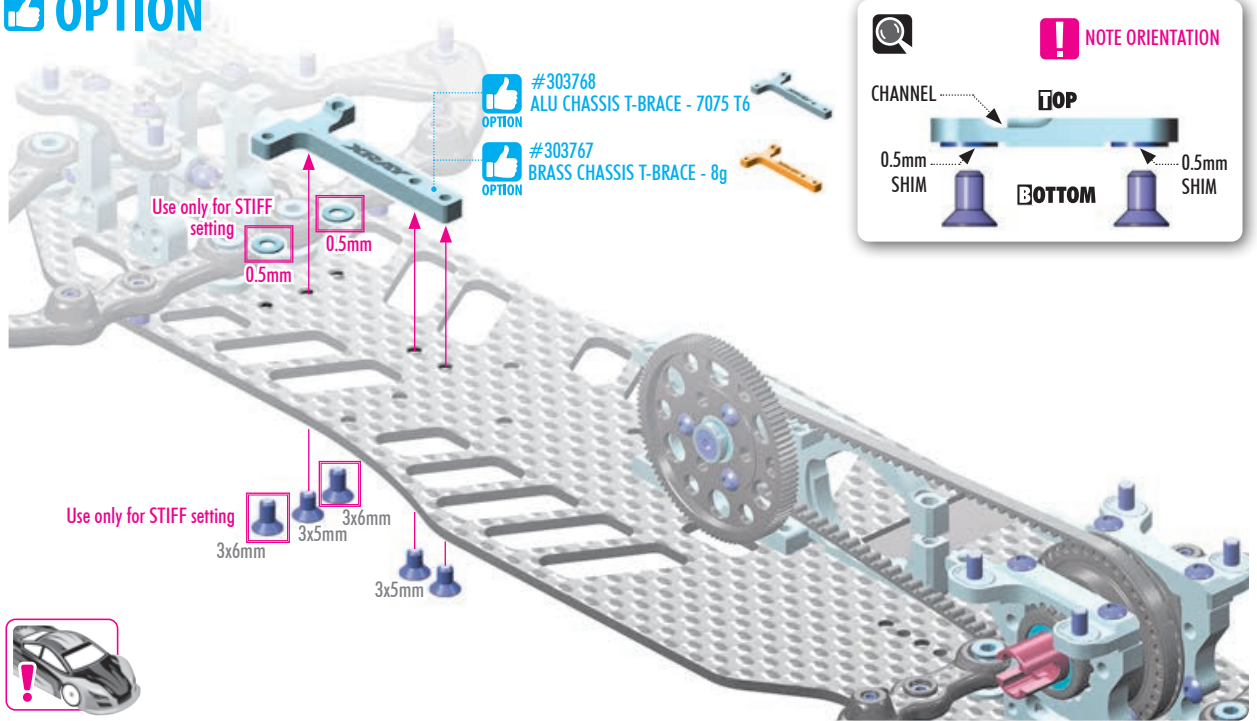
3. CENTRAL TRANSMISSION

OPTION

2x 303121-K
SHIM 3x6x0.5

3x 903305
SFH M3x5

2x 903306
SFH M3x6



#303768
ALU CHASSIS T-BRACE - 7075 T6

#303767
BRASS CHASSIS T-BRACE - 8g

Use only for STIFF setting
0.5mm
0.5mm
3x6mm
3x5mm
3x6mm
3x5mm

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

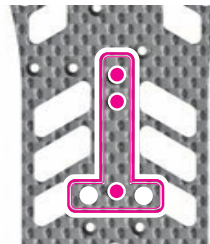
Install the brace using only the 2 forward bottom centerline screws (as shown). This gives improved on-power stability but still offers great off-power steering and rotation. Recommended for medium-high traction conditions and for small, technical tracks with many hairpin corners.



REAR

MEDIUM

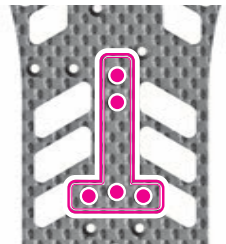
Install the brace using all 3 bottom centerline screws (as shown). This gives improved on-power stability and traction, but makes the car push more off-power. Recommended for low- or high-traction conditions where stability and traction is needed.



REAR

STIFF

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



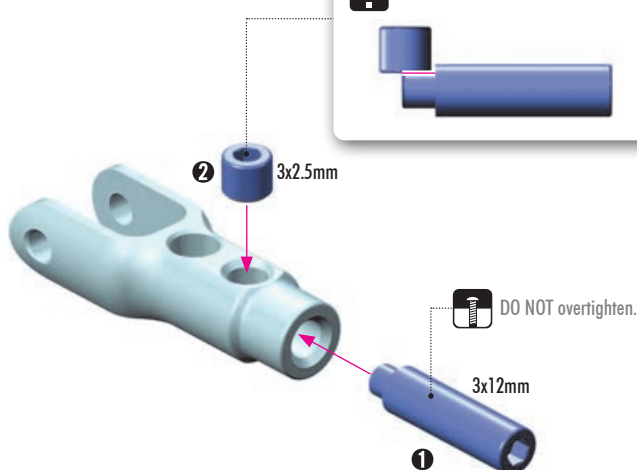
REAR

2x

2x 901302
SB M3x2.5

2x 901313
SB M3x12

The screw presses against the notch.

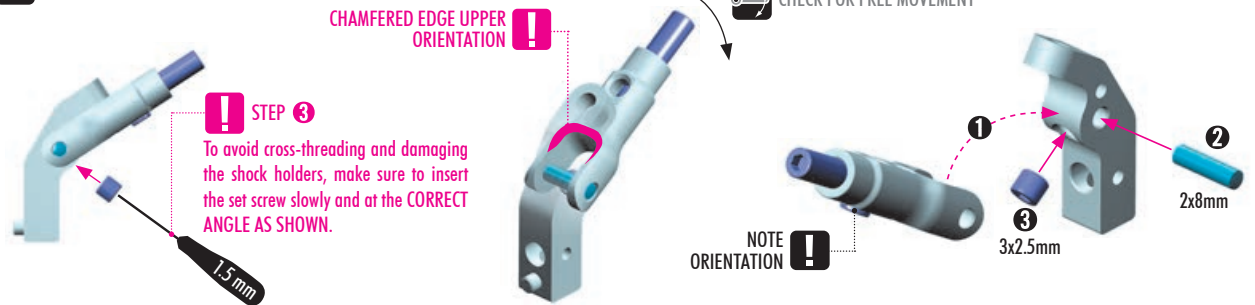


ASSEMBLED VIEW

3. CENTRAL TRANSMISSION

- 2x 901302 SB M3x2.5
- 2x 981208 P 2x8

2x REAR SHOCK HOLDERS



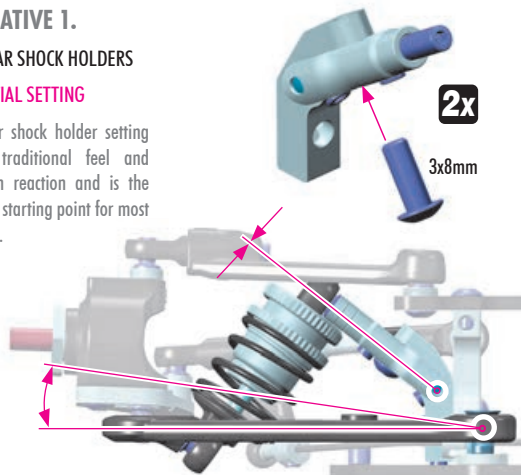
- 2x 902308 SH M3x8

ALTERNATIVE 1.

FIXED REAR SHOCK HOLDERS

INITIAL SETTING

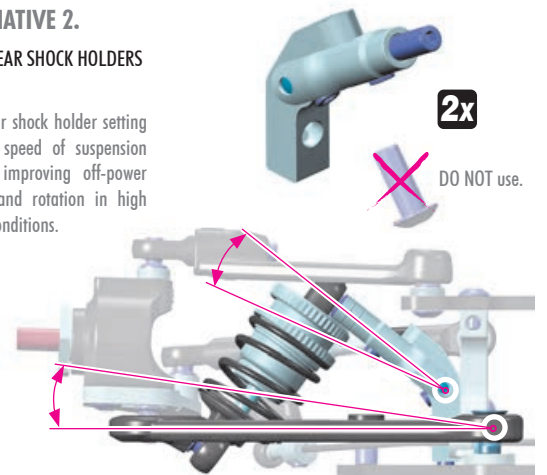
Fixed rear shock holder setting provides traditional feel and suspension reaction and is the suggested starting point for most conditions.



ALTERNATIVE 2.

ACTIVE REAR SHOCK HOLDERS

Active rear shock holder setting increases speed of suspension reaction, improving off-power steering and rotation in high traction conditions.



- 2x 303142-K SHIM 3x5x0.5

- 2x 902310 SH M3x10

- 2x 903305 SFH M3x5



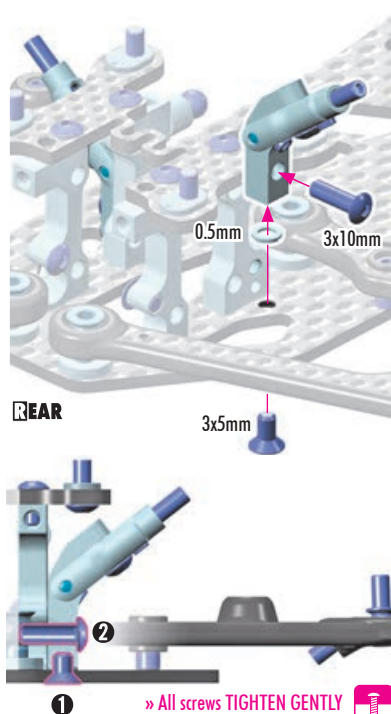
REAR SHOCK HOLDERS FLEX ADJUSTMENT

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

FLEX ALTERNATIVE 1.

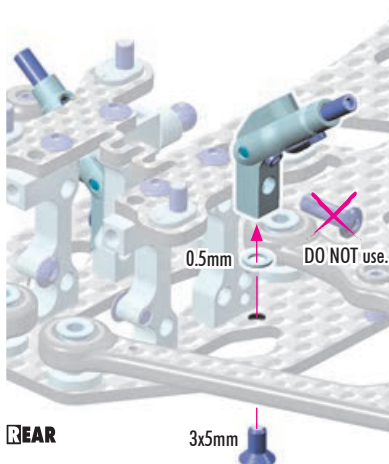
INITIAL SETTING

Attach the shock holder to both the chassis and bulkhead for free yet predictable handling for the easiest control. Recommended as a starting point for all traction levels.



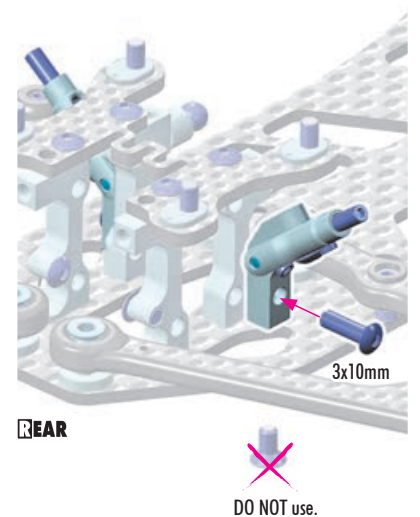
FLEX ALTERNATIVE 2.

Attach the shock holder to only the chassis for medium flex setting. Provides more traction and steering than stiff setting. Recommended for medium traction tracks.



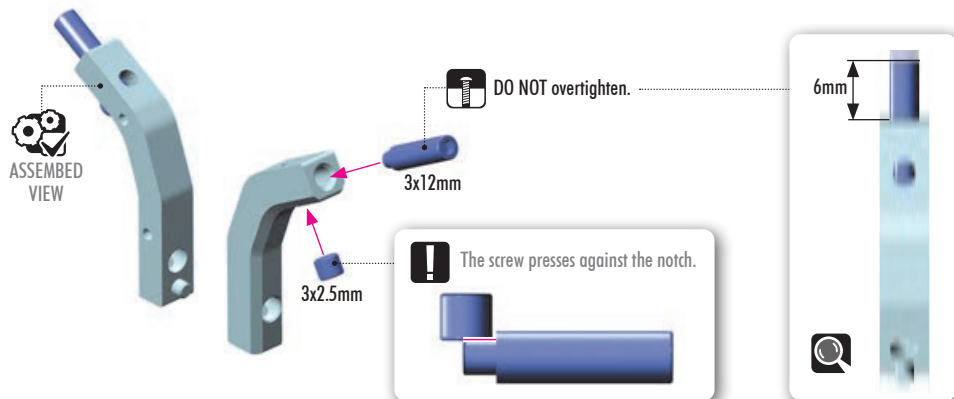
FLEX ALTERNATIVE 3.

Attaching the shock holders to only the bulkheads generates maximum traction and steering and is recommended for lower traction conditions. It can make the car less stable and can lead to traction-roll in higher traction conditions.



3. CENTRAL TRANSMISSION

2x FRONT SHOCK HOLDERS



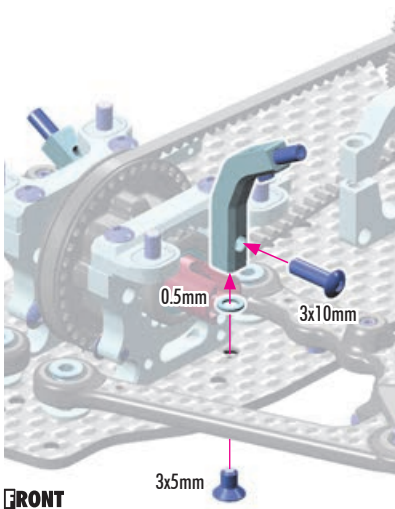
FRONT SHOCK HOLDERS FLEX ADJUSTMENT

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

FLEX ALTERNATIVE 1.

✓ INITIAL SETTING

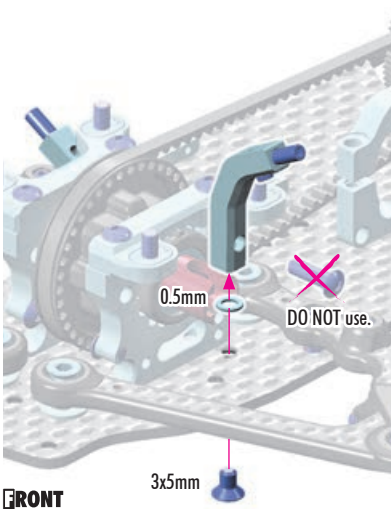
Attach the shock holder to both the chassis and bulkhead for free yet predictable handling for the easiest control. Recommended as a starting point for all grip levels.



FRONT

FLEX ALTERNATIVE 2.

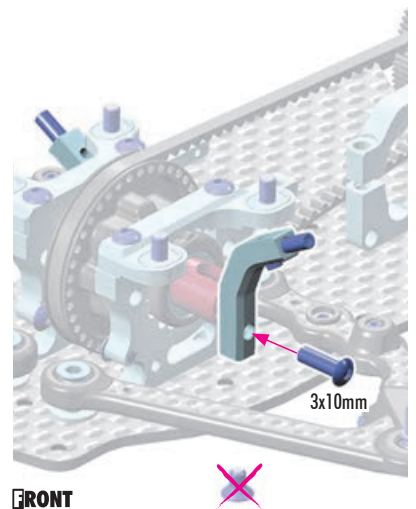
Attach the shock holder to only the chassis for medium flex setting. Provides more traction and steering than stiff setting. Recommended for medium traction tracks.



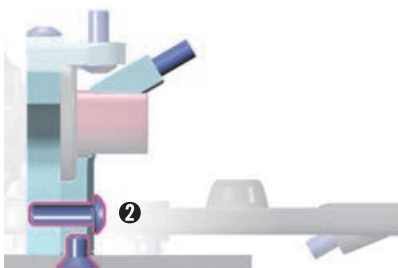
FRONT

FLEX ALTERNATIVE 3.

Attaching the shock holders to only the bulkheads generates maximum traction and steering and is recommended for lower traction conditions. It can make the car less stable and can lead to traction-roll in higher traction conditions.



FRONT



1 » All screws **TIGHTEN GENTLY**

» Fully **TIGHTEN** in this order 1 2



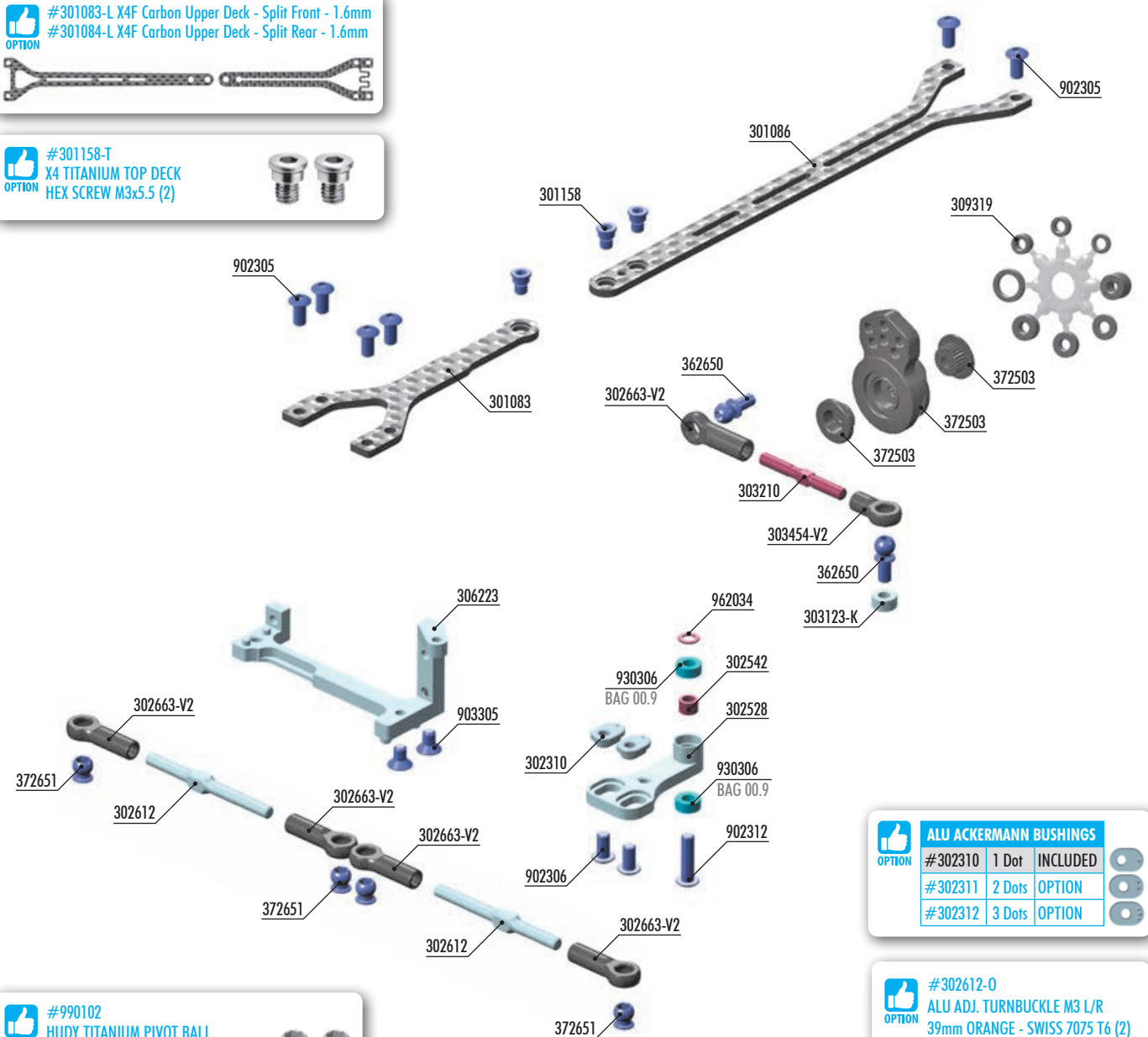
4. STEERING



#301083-L X4F Carbon Upper Deck - Split Front - 1.6mm
#301084-L X4F Carbon Upper Deck - Split Rear - 1.6mm



#301158-T
X4 TITANIUM TOP DECK
HEX SCREW M3x5.5 (2)



#990102
HUDY TITANIUM PIVOT BALL
D=4.9 / S=3.5 / 3mm HEX (2)



#990006
HUDY TITANIUM BALL STUD
D=4.9 / L=6 / S=3.5 / 2mm HEX (2)



#301085
CARBON UPPER DECK - 2.0mm



Optional one piece top deck increases chassis flex.
Suggested for low traction conditions, it may remove some
initial steering but generates more overall traction.



ALU ACKERMANN BUSHINGS

#	Dot	INCLUDED	
#302310	1 Dot	INCLUDED	
#302311	2 Dots	OPTION	
#302312	3 Dots	OPTION	



#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

301083 X4F CARBON UPPER DECK - SPLIT FRONT - 2.0mm
301086 X4F CARBON UPPER DECK - SPLIT REAR - 2.0mm
301158 TOP DECK HEX SCREW M3x5.5 - HUDY SPRING STEEL™ (2)
302310 ALU CASTER BUSHING FRONT 3° / REAR 0.5°/5.5° - 1 DOT (4)
302528 X4F ALU SERVO SAVER ARM - BLACK - SWISS 7075 T6
302542 STEEL SHIM 3x4.5x2.1mm (2)
302612 ALU ADJ. TURNBUCKLE M3 L/R 39mm - SWISS 7075 T6 (2)
302663-V2 COMPOSITE BALL JOINT 4.9mm - OPEN (8)
303123-K ALU SHIM 3x6x2.0mm - BLACK (10)
303210 REAR TURNBUCKLE L/R 26mm - HUDY SPRING STEEL (2)
303454-V2 BALL JOINT 4.9mm - OPEN (4)
306223 X4F ALU SERVO MOUNT - BLACK - ONE-PIECE - SWISS 7075 T6
309319 UNIVERSAL SET OF PLASTIC SHIMS

362650 BALL END 4.9mm WITH THREAD 6mm (2)
372503 COMPOSITE SERVO SAVER - X-STIFF - SET - V2
372651 PIVOT BALL UNIVERSAL 4.9mm (2)

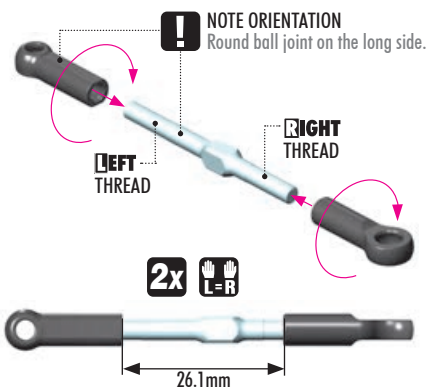
902305 HEX SCREW SH M3x5 (10)
902306 HEX SCREW SH M3x6 (10)
902312 HEX SCREW SH M3x12 (10)
903305 HEX SCREW SFH M3x5 (10)
930306 BALL-BEARING 3x6x2.5 STEEL-SEALED - OILED (2)
962034 STEEL WASHER S 3x4.7x1 (10)

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

XRAY

4. STEERING

2x STEERING LINKS



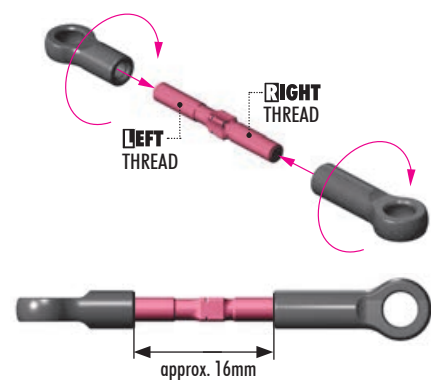
#302612-0
ALU ADJ. TURNBUCKLE M3 L/R
39mm ORANGE - SWISS 7075 T6 (2)

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

1x

SERVO LINK

Adjust servo link to fit your servo.



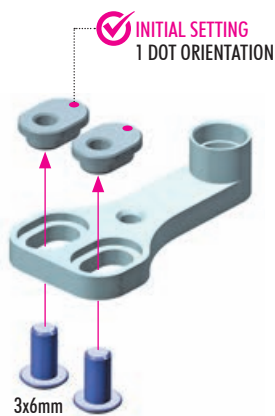
2x 902306
SH M3x6

1x 902312
SH M3x12

1x 302542
SHIM 3x4.5x2.1

1x 962034
SHIM 3x4.7x1

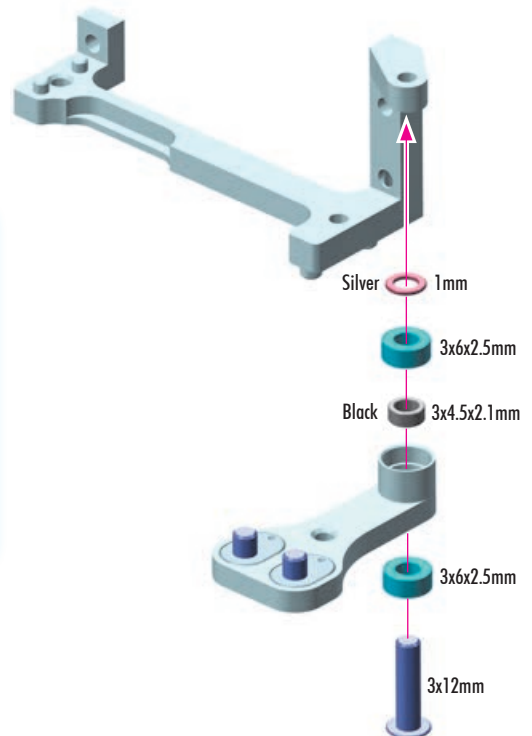
2x 930306
BB 3x6x2.5



VIDEO TECH TIP



STEERING SYSTEM



ACKERMANN SETTINGS

There are two Ackermann setting alternatives. You can insert the Ackermann inserts in two different orientations which will result in the different Ackermann settings.

Dot oriented in the REAR:

- steering link mounted maximum forward
- less Ackermann

Makes the car more responsive, improves in-corner steering.
This setting equals to X4F'24 Ackermann position.



Dot oriented in the FRONT:

- steering link mounted maximum backward
- more Ackermann

Makes the car easier to drive, improves cornering speed.



Optional 2 Dots and 3 Dots inserts are available as an option for Ackermann setting fine tuning.

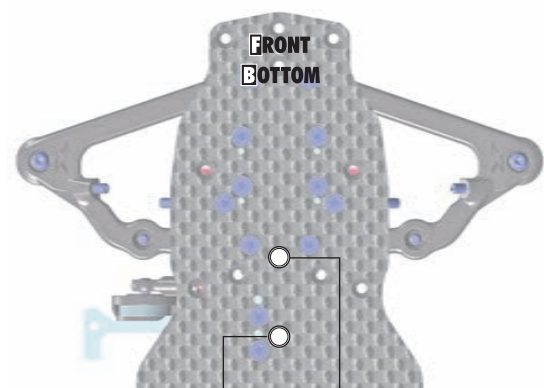


ALU ACKERMANN BUSHINGS			
#302310	1 Dot	INCLUDED	
#302311	2 Dots	OPTION	
#302312	3 Dots	OPTION	



CHANGE ACKERMANN SETTINGS

To change the Ackermann setting, you can use 2mm screw driver and you can access to the screws from the window in the chassis.



STEERING ARM HOLE
Use this hole in the chassis for tightening the steering arm screw.

ACKERMANN SETTING HOLE
Use this hole in the chassis for adjusting the Ackermann setting.

4. STEERING

TIP
Install with HUDY Multi Tool.

2x L=R

#990102
HUDY TITANIUM PIVOT BALL
D=4.9 / S=3.5 / 3mm HEX (2)

The composite ball joints must move freely and **CAN NOT** touch each other. In case they are touching, use a hobbyknife to remove material from the ball joints.

CAN NOT TOUCH

IO
1x 303123-K
SHIM 3x6x2

SERVO SAVER

Use the adapter that matches the steering servo.
F = 25T H = 24T K = 23T

INITIAL SETTING

HUDY ADJUSTABLE CLAMP SERVO HORNS

#293414	23T	KO, Sanwa
#293416	25T	Futaba, Savox

ADJUSTABLE 15-19mm HEIGHT

HUDY ALU FIXED SERVO SAVER 1/10 TC & FWD - SET

#293352

Use the adapter that matches the steering servo.
F = 25T H = 24T K = 23T

VIDEO TECH TIP

STEERING SYSTEM

ALU SERVO HORNS - OFFSET		
#293491	KO, Sanwa - 23T	
#293492	Hitec - 24T	
#293493	Savox, Futaba - 25T	
CLAMP ALU SERVO HORNS - OFFSET		
#293401	KO, Sanwa - 23T	
#293402	Hitec - 24T	
#293403	Savox, Futaba - 25T	
CLAMP ALU SERVO HORNS - OFFSET		
#293411	KO, Sanwa - 23T	
#293412	Hitec - 24T	
#293413	Savox, Futaba - 25T	

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

HUDY ALU SERVO HORNS	
#293497	KO, Sanwa - 23T
#293498	Hitec - 24T
#293499	Savox, Futaba - 25T
HUDY CLAMP ALU SERVO HORNS	
#293404	KO, Sanwa - 23T
#293405	Hitec - 24T
#293406	Savox, Futaba - 25T

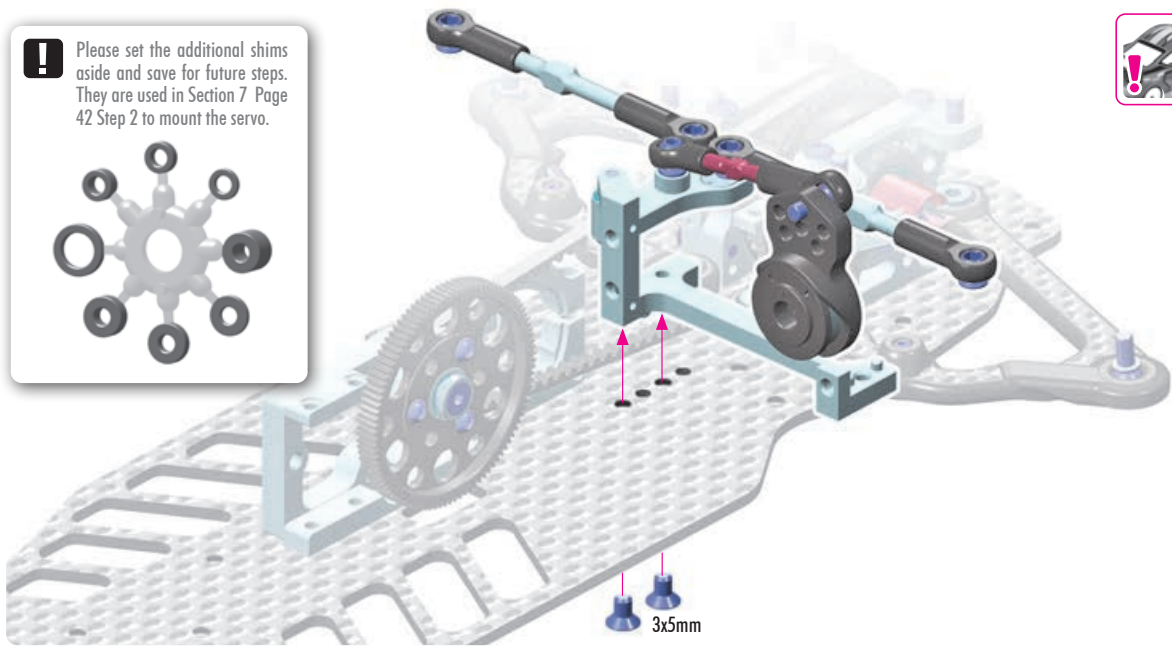
HUDY ALU SERVO HORNS	
#293501	KO, Sanwa - 23T
#293502	Hitec - 24T
#293503	Savox, Futaba - 25T
HUDY CLAMP ALU SERVO HORNS	
#293407	KO, Sanwa - 23T
#293408	Hitec - 24T
#293409	Savox, Futaba - 25T

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.



2x 903305
SFH M3x5

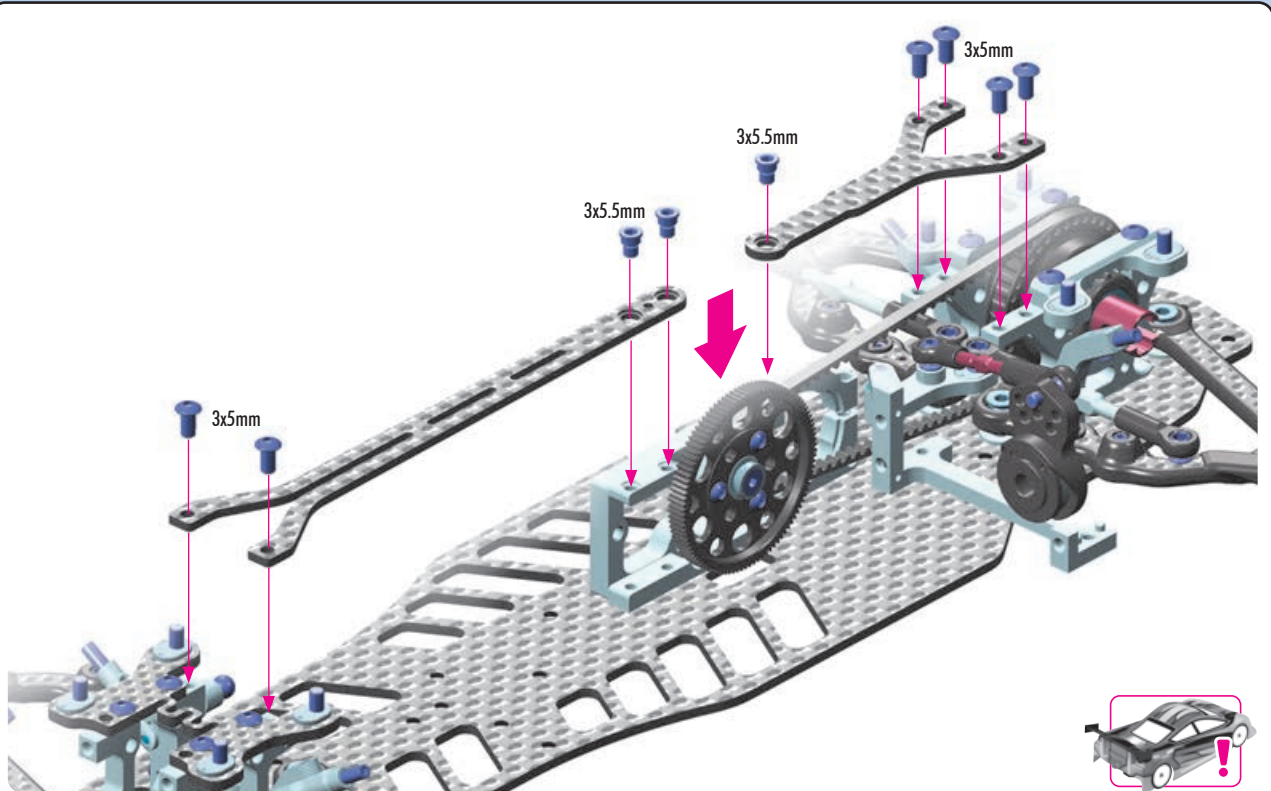
! Please set the additional shims aside and save for future steps. They are used in Section 7 Page 42 Step 2 to mount the servo.



3x 301158
SCREW 3x5.5



6x 902305
SH M3x5



VIDEO TECH TIP



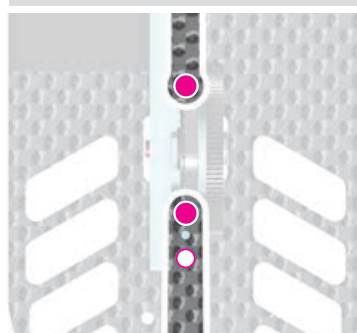
TOP DECK FLEX



TOP DECK (SPLIT) FLEX SETTINGS

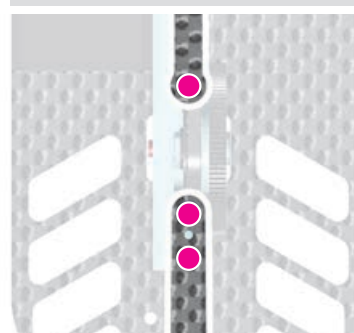
The new feature of the split top deck is the flex setting adjustment. There are two different flex setting alternatives.

SOFT



This allows maximum flex and provides maximum steering and rotation. However, the car is less stable on-power.

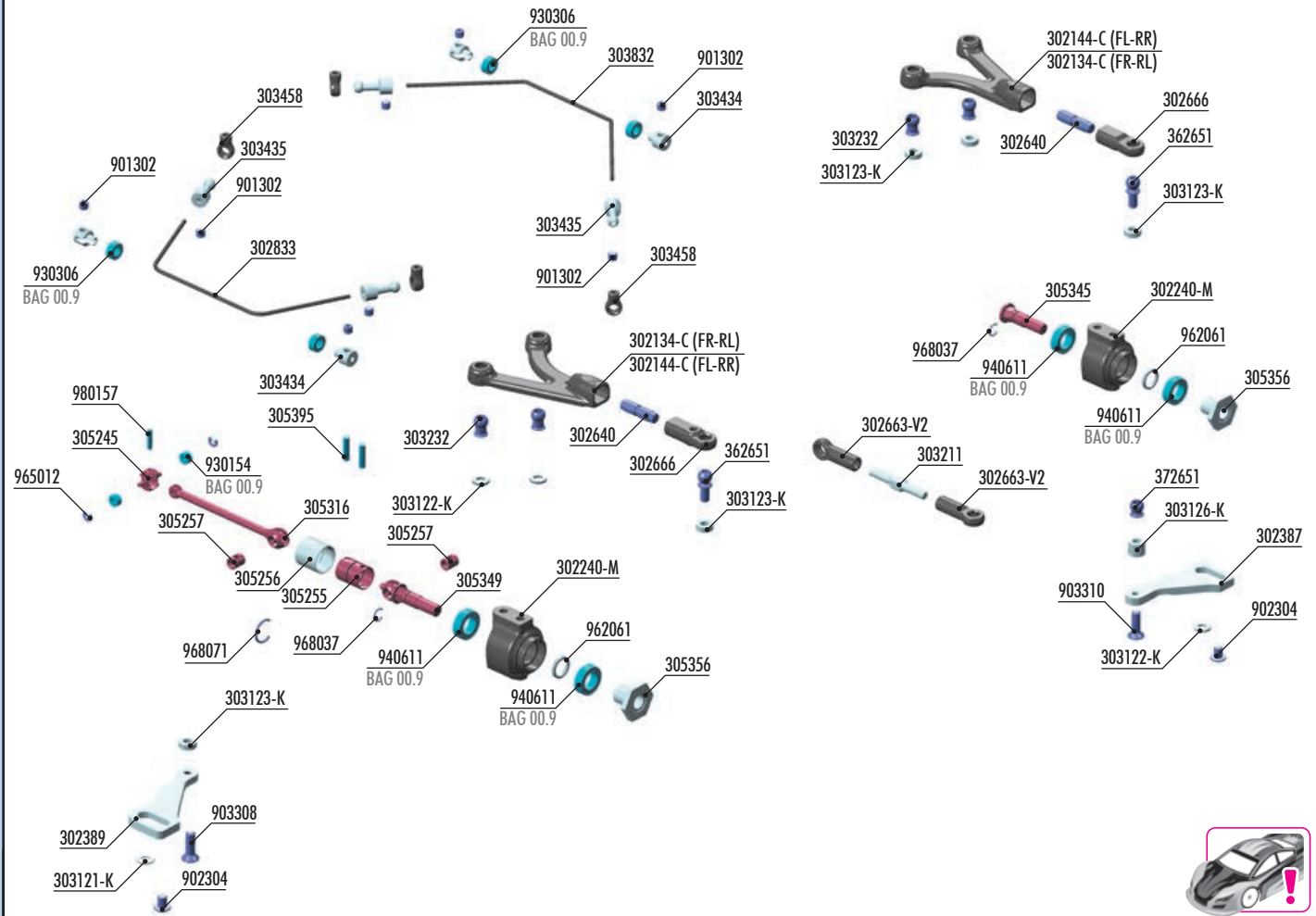
STIFF



INITIAL SETTING

This setting gives reduced flex in the rear which improves stability and on-power traction.

5. FRONT & REAR SUSPENSION



BAG

05

302134-C X4 COMPOSITE UPPER ARM - INNER SHOCK POSITION - FR/RL
 302144-C X4 COMPOSITE UPPER ARM - INNER SHOCK POSITION - FL/RR
 302240-M X4 COMPOSITE STEERING BLOCK - MEDIUM
 302387 X4 ALU REAR ARS PLATE - INNER SHOCK POSITION - SWISS 7075 T6 (L+R)
 302389 X4F ALU FRONT STEERING PLATE - INNER SHOCK POSITION - 7075 T6 (L+R)
 302640 ADJUSTABLE CAMBER SCREW 14mm M4 L/R - HUDY SPRING STEEL™ (2)
 302663-V2 COMPOSITE BALL JOINT 4.9mm - OPEN (8)
 302666 COMPOSITE BALL JOINT 4.9mm F+R - OPEN (2+2)
 302833 X4 ANTI-ROLL BAR UAM - UNDER ARM MOUNT - FRONT 1.3mm
 303121-K ALU SHIM 3x6x0.5mm - BLACK (10)
 303122-K ALU SHIM 3x6x1.0mm - BLACK (10)
 303123-K ALU SHIM 3x6x2.0mm - BLACK (10)
 303126-K ALU SHIM 3x6x5.0mm - BLACK (10)
 303211 ALU ADJUSTABLE TURNBUCKLE L/R 30mm - SWISS 7075 T6 (2)
 303232 X4 UPPER ARM BALL UNIVERSAL 4.9mm - HUDY SPRING STEEL™ (2)
 303434 ALU ANTI-ROLL BAR BUSHING ø2.0mm - 6mm (2)
 303435 ALU ANTI-ROLL BAR BALL END 3.9mm - SWISS 7075 T6 (2)
 303458 COMPOSITE ANTI-ROLL BAR BALL JOINT 3.9mm (4)
 303832 X4 ANTI-ROLL BAR UAM - UNDER ARM MOUNT - REAR 1.2mm
 305245 ECS BB DRIVE SHAFT ADAPTER - HUDY SPRING STEEL™ (2)
 305255 ECS BB SC DRIVE SHAFT CASE - HUDY SPRING STEEL™
 305256 ECS BB SC ALU DRIVE SHAFT SLEEVE - SWISS 7075 T6

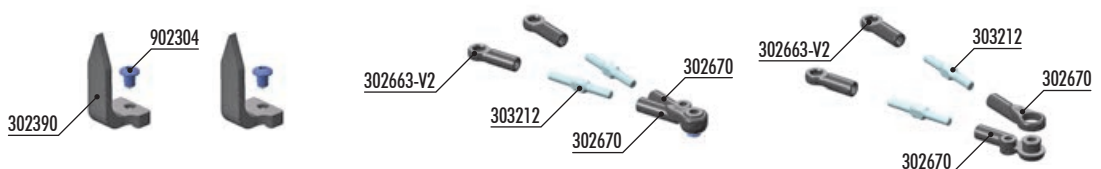
305257 ECS BB SC DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
 305306 X4 ECS BB DRIVE SHAFT 58mm - HUDY SPRING STEEL™ - SET
 305316 X4 ECS BB DRIVE SHAFT 58mm - HUDY SPRING STEEL™ (2)
 305345 X4F DRIVE AXLE - HUDY SPRING STEEL™
 305349 X4 ECS DRIVE AXLE - SPRING CLIP - HUDY SPRING STEEL™
 305356 X4 ALU WHEEL HUB - SPRING CLIP - SWISS 7075 T6 (2)
 305395 ECS BB SC DRIVE SHAFT PIN 2 x 8.4 (2)
 362651 BALL END 4.9mm WITH THREAD 8mm (2)
 372651 PIVOT BALL UNIVERSAL 4.9mm (2)

901302 HEX SCREW SB M3x2.5 (10)
 902304 HEX SCREW SH M3x4 - STAINLESS (10)
 903308 HEX SCREW SFH M3x8 (10)
 903310 HEX SCREW SFH M3x10 (10)
 930154 BALL-BEARING 1.5x4x2 STEEL-SEALED - OIL (4)
 930306 BALL-BEARING 3x6x2.5 STEEL-SEALED - OIL (2)
 940611 BALL-BEARING 6x10x3 RUBBER SEALED - OIL (2)
 962061 WASHER S 6x7.5x1.0 (10)
 965012 E-CLIP 1.2 (10)
 968037 C-CLIP 3.7 (10)
 968071 C-CLIP 7.1 (10)
 980157 PIN 1.5x7.3 (10)

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

BAG

05.1



302390 X4 COMPOSITE CASTER GAUGE (2)
 302663-V2 COMPOSITE BALL JOINT 4.9mm - OPEN (8)
 302670 COMPOSITE UPPER ARM LINKS (1+1+1+1)

303212 ALU ADJ. TURNBUCKLE L/R 26MM - SWISS 7075 T6 (2)
 902304 HEX SCREW SH M3x4 - STAINLESS (10)

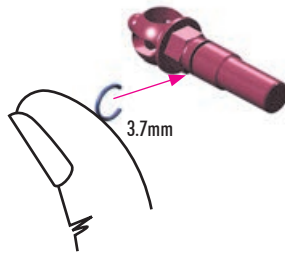
5. FRONT & REAR SUSPENSION

2x FRONT TRANSMISSION - ECS DRIVE SHAFT

4x 305395
P 2x8.4

2x 968037
C 3.7

2x 968071
C 7.1



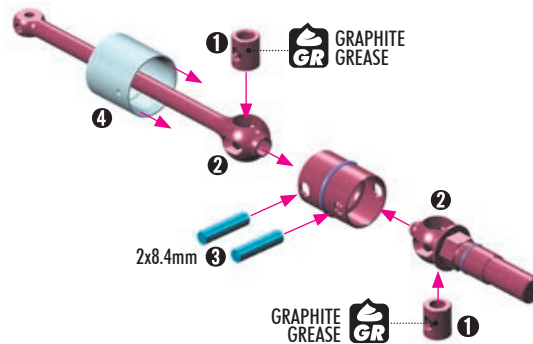
Insert the clip into the groove on the axle. The clip should fit smoothly without extra force and should NOT require pliers. Make sure the clip will rotate after installation.



2x

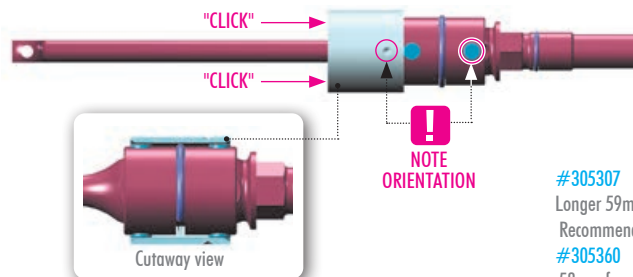


2x



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

2x



#305307
Longer 59mm front drive shafts provide more stability but reduce steering. Recommended for high traction carpet.

#305360
58mm front drive shafts must be used with 305241 replacement caps.

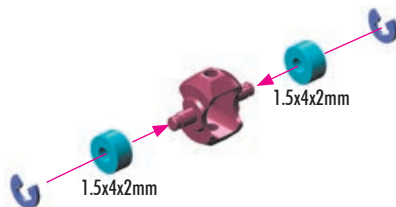


VIDEO TECH TIP



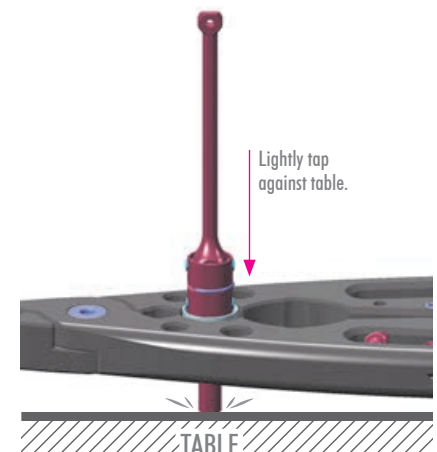
DRIVE SHAFTS

2x



TIP DISASSEMBLY OF ECS DRIVE SHAFT

To disassemble the alu drive shaft sleeve from the drive shaft, hold the sleeve firmly with a HUDY Multi-Tool, and lightly push the drive shaft down against a flat surface.

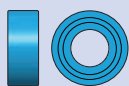


2x



2x 980157
P 1.5x7.3

5. FRONT & REAR SUSPENSION



4x 940611
BB 6x10x3



2x 962061
S 6x7.5x1



2x 968037
C 3.7

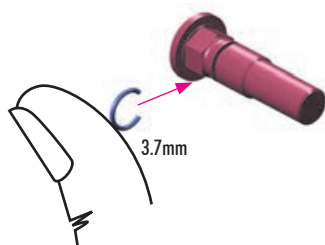


VIDEO TECH TIP



FRONT & REAR
UPRIGHTS

2x REAR TRANSMISSION



Insert the clip into the groove on the axle. The clip should fit smoothly without extra force and should NOT require pliers. Make sure the clip will rotate after installation.

Left UPRIGHT = Right UPRIGHT



STEERING BLOCKS

OPTION	#	STEERING BLOCKS	INCLUDED
	#302240-M	MEDIUM	INCLUDED
	#302240-H	HARD	OPTION
	#302240-G	GRAPHITE	OPTION
	#302241	ALU	OPTION



MEDIUM hubs generate the maximum amount of side traction, which is the best starting point for most conditions.

HARD hubs' additional stiffness is recommended for low to medium traction conditions for balanced handling with good traction and cornering speed.

GRAPHITE hubs are recommended for high to very high traction conditions to help improve rotation and cornering speed.

ALU hubs are recommended for high traction surfaces to improve rotation and free up the car, but they will decrease traction. ALU hubs also improve durability in serious crashes.



OFFSET WHEEL SHIMS

OPTION	#	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.



#305359 ALU WHEEL HUB +0.5mm



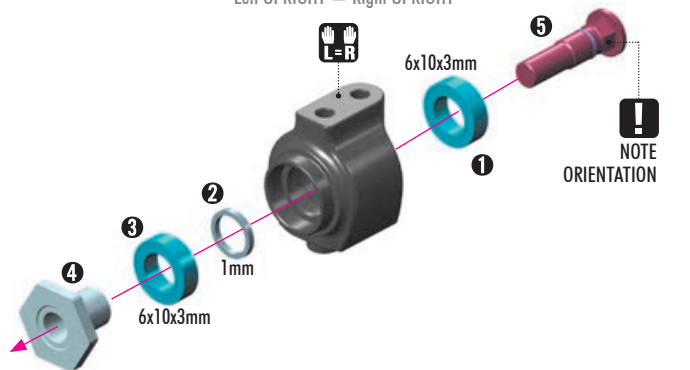
The wider wheel hubs free up the car and improve cornering speed in high traction conditions.



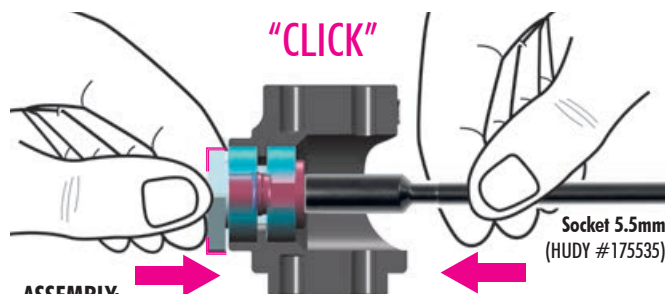
#305354 ALU WHEEL HUB -0.5mm



For very low traction conditions, the narrower wheel hubs can generate more traction and steering but will make the car nervous and decrease cornering speed.



NOTE
ORIENTATION



Socket 5.5mm
(HUDY #175535)

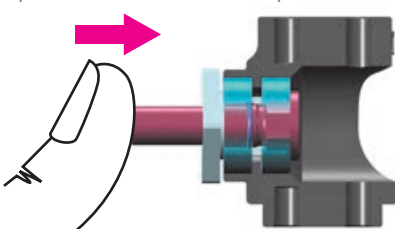
ASSEMBLY:

When installing the wheel hub on the drive axle, make sure the inside groove in the hub seats over the clip on the axle.

To confirm proper installation there should be a 'click' noise when the clip engages the inner groove in the wheel hub. There should be slight axial play once fully seated.

DISASSEMBLY:

To remove the wheel hub from the axle, push the end of the axle back through the wheel hub to separate the wheel hub from the inner clip.



CUTAWAY VIEW

2x REAR TRANSMISSION

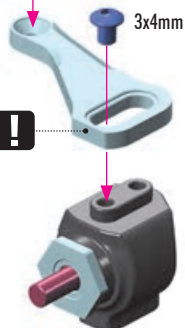
3x10mm



DO NOT OVERTIGHTEN

The thread in the rear ARS plate is very short; therefore, make sure to tighten the screw gently.

NOTE
ORIENTATION



ASSEMBLY
VIEW



BOTTOM
VIEW

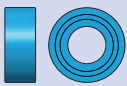


2x 902304
SH M3x4



2x 903310
SFH M3x10

5. FRONT & REAR SUSPENSION



4x 940611
BB 6x10x3



2x 962061
S 6x7.5x1

2x FRONT TRANSMISSION



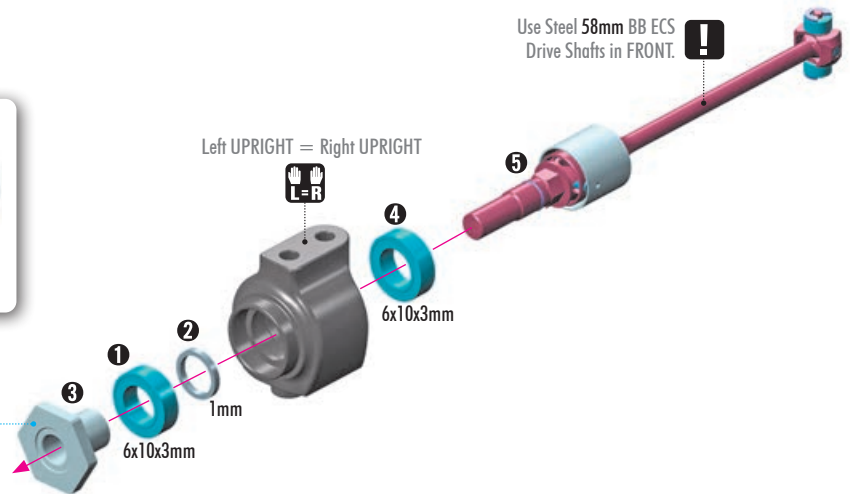
OFFSET WHEEL SHIMS

#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.

Use Steel 58mm BB ECS
Drive Shafts in FRONT. **!**



STEERING BLOCKS

#	MEDIUM	INCLUDED
#302240-M	MEDIUM	INCLUDED
#302240-H	HARD	OPTION
#302240-G	GRAPHITE	OPTION
#302241	ALU	OPTION



MEDIUM hubs generate the maximum amount of side traction, which is the best starting point for most conditions.

HARD hubs' additional stiffness is recommended for low to medium traction conditions for balanced handling with good traction and cornering speed.

GRAPHITE hubs are recommended for high to very high traction conditions to help improve rotation and cornering speed.

ALU hubs are recommended for high traction surfaces to improve rotation and free up the car, but they will decrease traction. Alu hubs also improve durability in serious crashes.



#305359
ALU WHEEL HUB +0.5mm



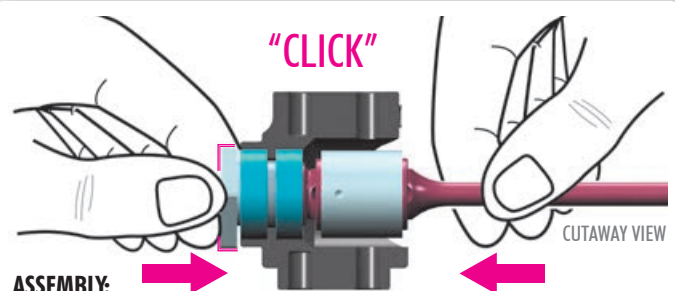
The wider wheel hubs free up the car and improve cornering speed in high traction conditions.



#305354
ALU WHEEL HUB -0.5mm



For very low traction conditions, the narrower wheel hubs can generate more traction and steering but will make the car nervous and decrease cornering speed.



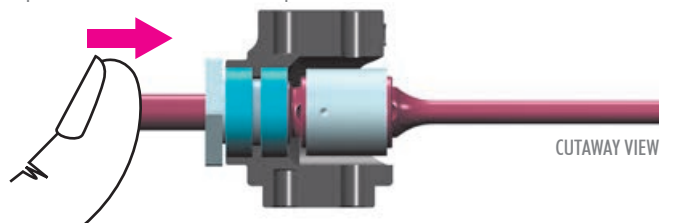
ASSEMBLY:

When installing the wheel hub on the drive axle, make sure the inside groove in the hub seats over the clip on the axle.

To confirm proper installation there should be a 'click' noise when the clip engages the inner groove in the wheel hub. There should be slight axial play once fully seated.

DISASSEMBLY:

To remove the wheel hub from the axle, push the end of the axle back through the wheel hub to separate the wheel hub from the inner clip.



2x FRONT TRANSMISSION

DO NOT OVERTIGHTEN

The threads in the front steering plate are very short; take caution to tighten the screw gently.



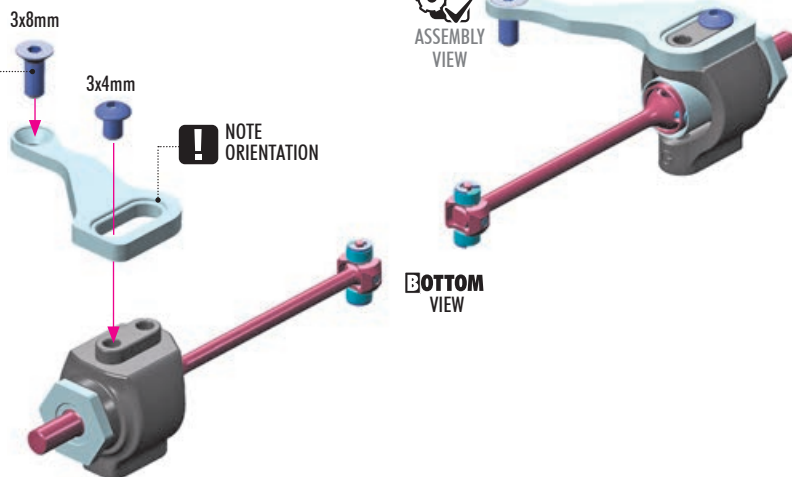
3x8mm

3x4mm

! NOTE
ORIENTATION

ASSEMBLY
VIEW

BOTTOM
VIEW



5. FRONT & REAR SUSPENSION

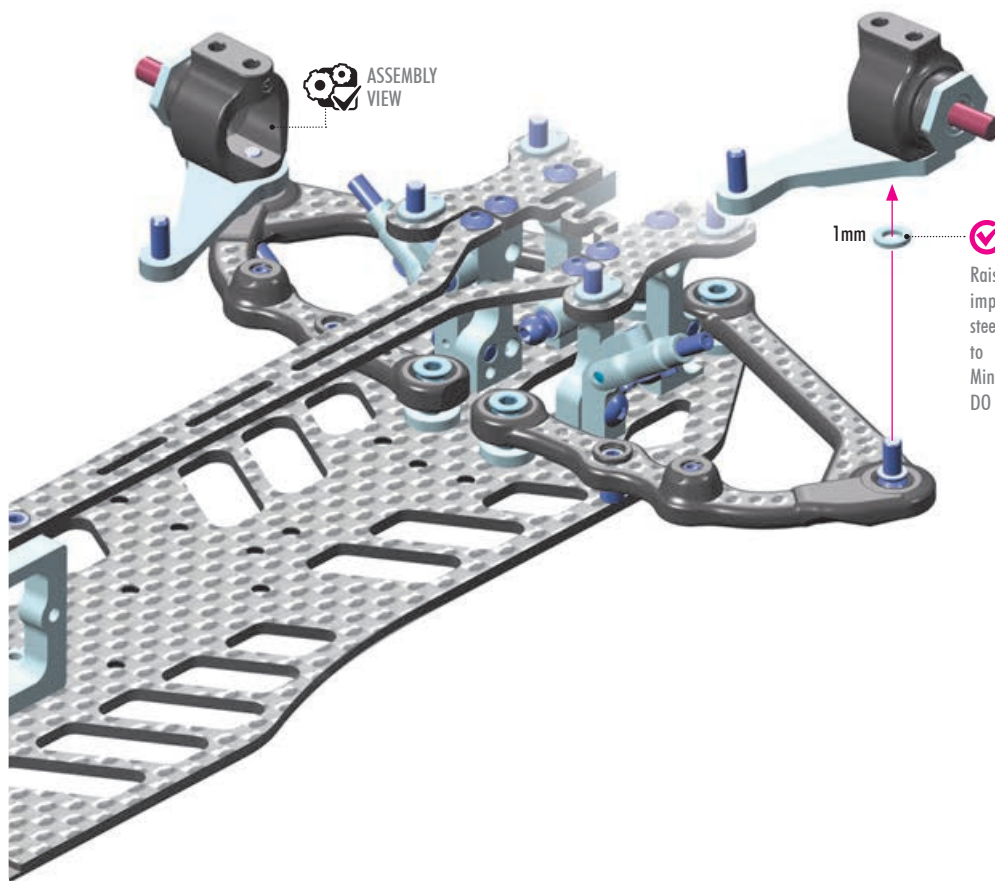
2x 303122-K
SHIM 3x6x1

VIDEO TECH TIP



ROLL-CENTER

2x REAR SUSPENSION



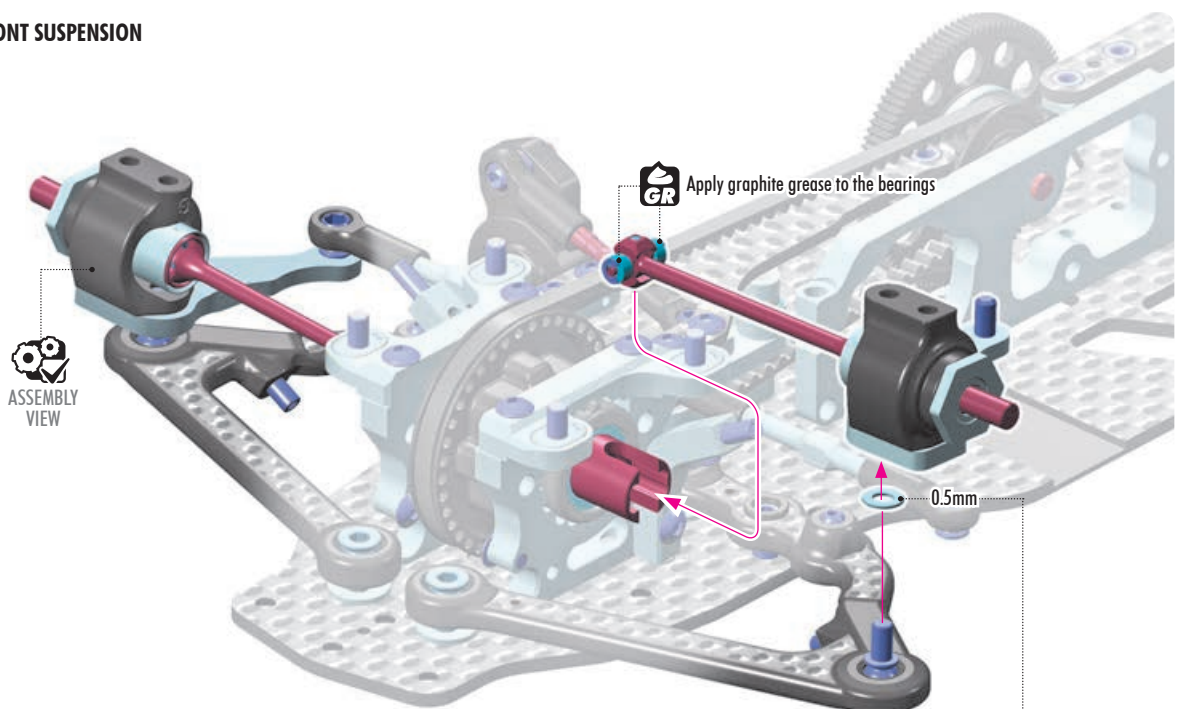
✓ INITIAL SETTING

Raising the rear axle height will improve rotation and off-power steering. Recommended for medium to high traction asphalt surfaces. Minimum shim thickness is 0.5mm; DO NOT use thinner.



2x 303121-K
SHIM 3x6x0.5

2x FRONT SUSPENSION



Raising the front axle height will free up the front, reduce front grip, and make the car more forgiving to drive. Higher front axle also helps to avoid traction rolling in higher traction conditions. Minimum shim thickness is 0.5mm; DO NOT use thinner.



XRAY

5. FRONT & REAR SUSPENSION

This kit includes two upper arm **ALTERNATIVES**. The traditional **CFF™ UPPER ARM** and **UPPER ARM LINKS**. Please read the full descriptions before selecting the best alternative.

UPPER ARMS CFF™ ALTERNATIVE

CFF™ Upper Arms are suggested for most conditions as they provide neutral handling and require minimal set-up adjustments between runs.

INITIAL SETTING



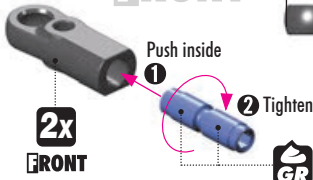
VIDEO TECH TIP



CAMBER & UPPER ARMS

FRONT

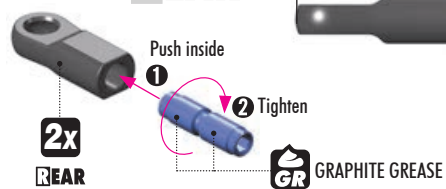
31mm



GRAPHITE GREASE

REAR

29.5mm



GRAPHITE GREASE

! BOTTOM NOTE ORIENTATION

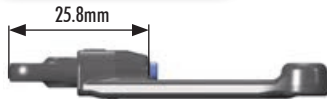


Shiny side Cut out
Ball joint should be aligned in the arm with the machined clearance facing down.

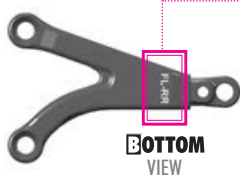
! BOTTOM NOTE ORIENTATION



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



LEFT FL-RR



BOTTOM VIEW



FRONT

CAMBER = 2.0°

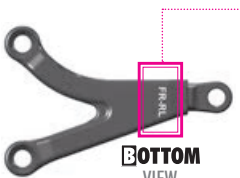
RIGHT FR-RL



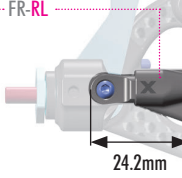
BOTTOM VIEW

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

LEFT FR-RL



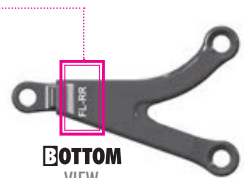
BOTTOM VIEW



REAR

CAMBER = 2.0°

RIGHT FL-RR



BOTTOM VIEW



OPTION

UPPER ARMS CFF™				
#302144-M	MEDIUM	FL-RR	OPTION	
#302134-M	MEDIUM	FR-RL	OPTION	
#302144-S	SOFT	FL-RR	OPTION	
#302134-S	SOFT	FR-RL	OPTION	

UPPER ARMS CFF™				
#302144-XS	EXTRA-SOFT	FL-RR	OPTION	
#302134-XS	EXTRA-SOFT	FR-RL	OPTION	
#302144-C	COMPOSITE	FL-RR	INCLUDED	
#302134-C	COMPOSITE	FR-RL	INCLUDED	



COMPOSITE upper arms are recommended for modified and in very low traction conditions. They provide maximum traction and side-bite, but reduce cornering speed and initial steering.

EXTRA SOFT upper arms are recommended for both modified and stock in low to medium traction conditions on carpet or asphalt.

SOFT upper arms are recommended for medium traction conditions.

MEDIUM upper arms are recommended in medium to high traction conditions. They provide slightly less traction than soft arms, but generate more cornering speed and are the most durable.



OPTION

#302640-T
X4 ADJUSTABLE CAMBER SCREW 14mm
M4 L/R - TITANIUM (2)



5. FRONT & REAR SUSPENSION



6x 303123-K
SHIM 3x6x2

VIDEO TECH TIP



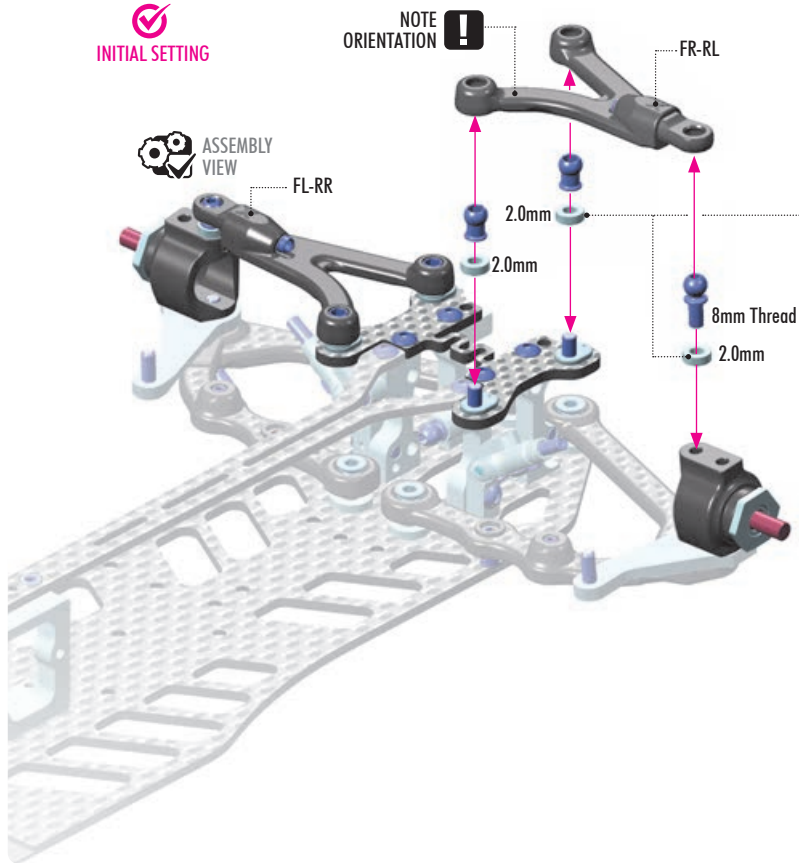
ROLL-CENTER

UPPER ARMS CFF™ ALTERNATIVE

REAR SUSPENSION



INITIAL SETTING



Rear upper arm location affects the rear roll-center and camber gain. Raising the arm with thicker shims on the carbon upper clamp 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.

Thicker shim on carbon upper clamp provides more rotation and off-power steering but decreases rear traction.

#990101
HUDY TITANIUM PIVOT BALL
OPTION D=4.9 / S=5 / 3mm HEX (2)



#990008
HUDY TITANIUM BALL STUD
OPTION D=4.9 / L=8 / S=3.5 / 2mm
HEX (2)

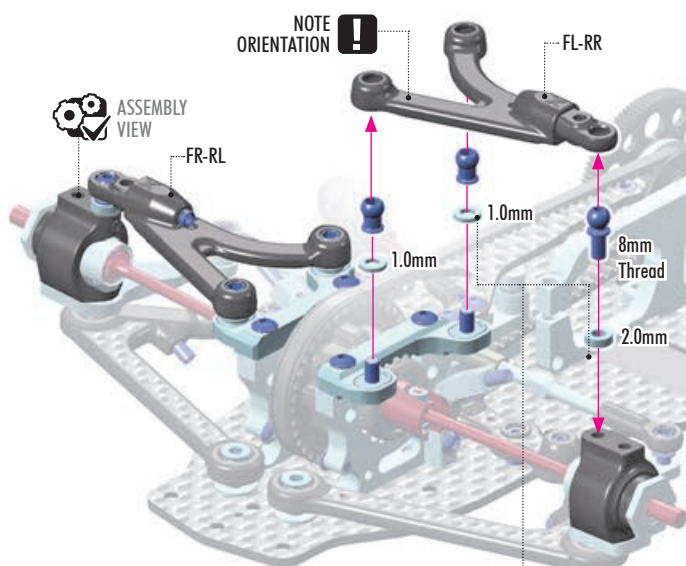


UPPER ARMS CFF™ ALTERNATIVE

FRONT SUSPENSION



INITIAL SETTING



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.



#990101
HUDY TITANIUM PIVOT BALL
OPTION D=4.9 / S=5 / 3mm HEX (2)



#990008
HUDY TITANIUM BALL STUD
OPTION D=4.9 / L=8 / S=3.5 / 2mm
HEX (2)

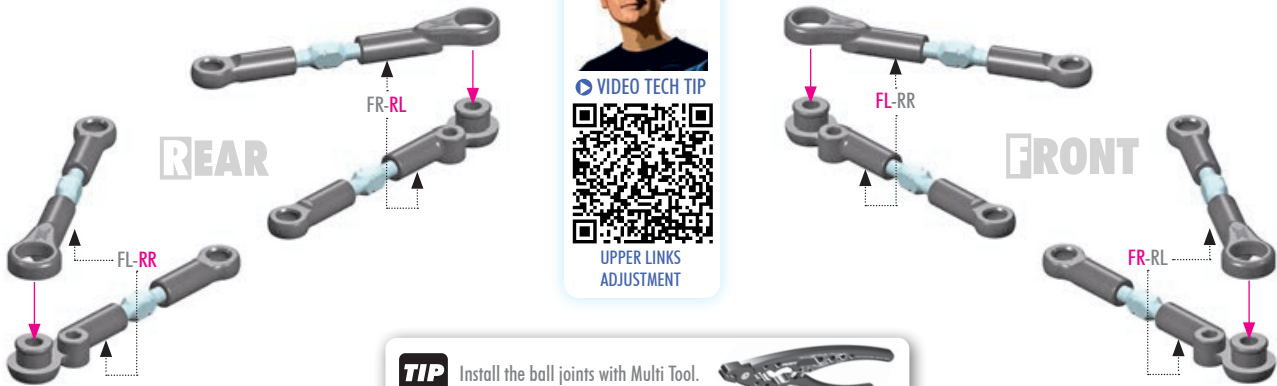
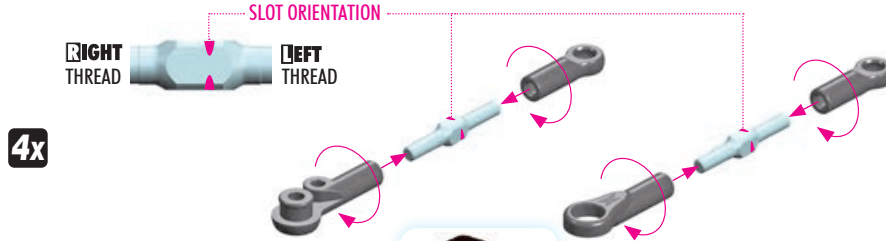


XRAY

5. FRONT & REAR SUSPENSION

ALTERNATIVE LINK STYLE UPPER ARMS

Replace the standard CFF upper arms. See full description below on when to use.



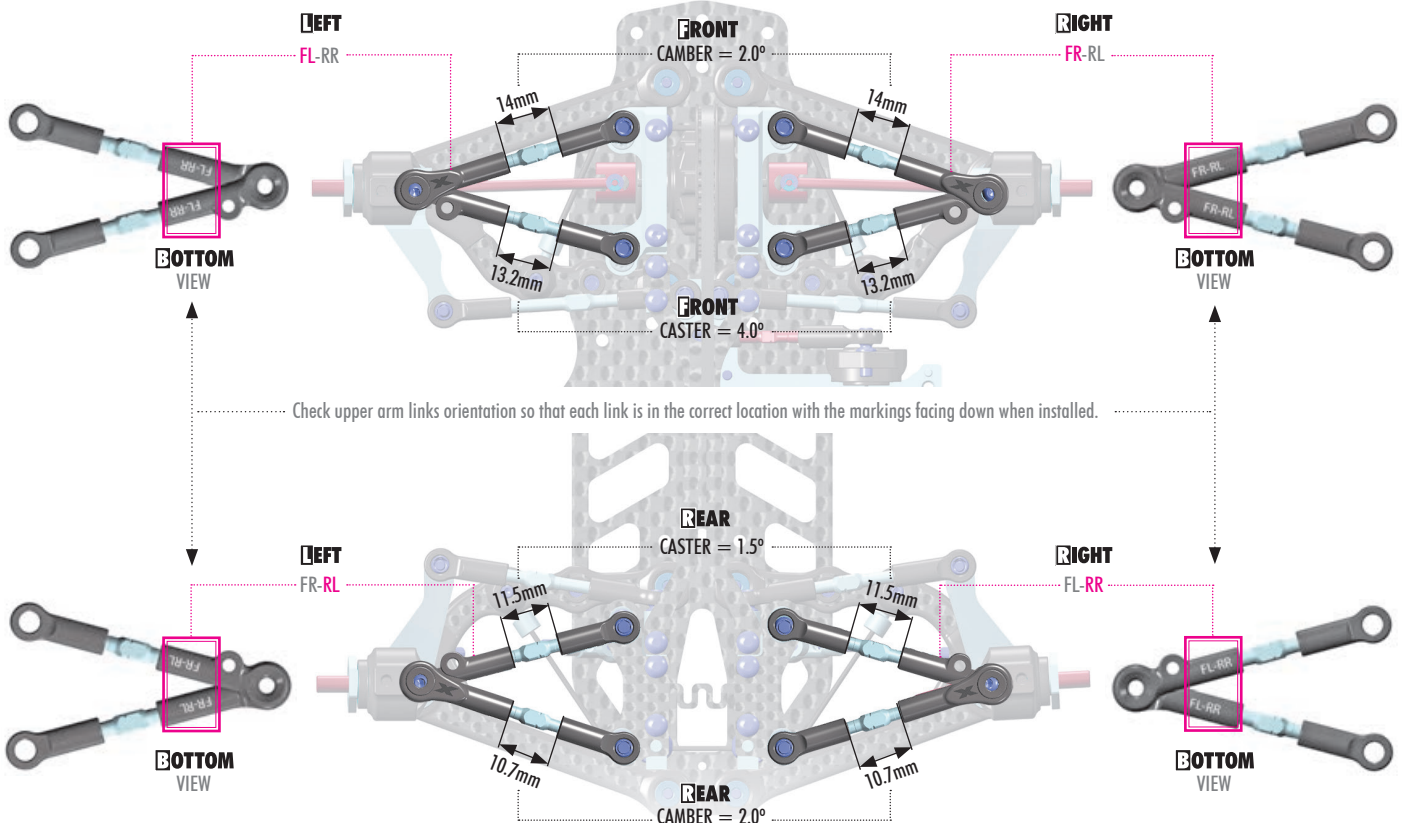
LINK STYLE UPPER ARMS

The link style upper arms are also included in the kit as an alternative to the CFF arms, offering the freedom of choice to select the one with the preferred handling characteristics and adjustment capabilities.

Please see Page 52-54 for link adjustment instructions.

The added rigidity from the turnbuckles reduces flex of the suspension assembly, which has proven beneficial on certain track conditions such as medium to high traction asphalt and carpet. The car generates more initial reaction from the increased rigidity.

When switching from CFF to Upper Link arms, retain the same caster eccentric insert positions in the upper bulkheads as previously used.



5. FRONT & REAR SUSPENSION

6x 303123-K
SHIM 3x6x2

UPPER ARMS LINKS ALTERNATIVE REAR SUSPENSION

ASSEMBLED VIEW

RIGHT FL-RR

LEFT FR-RL

2mm

2mm

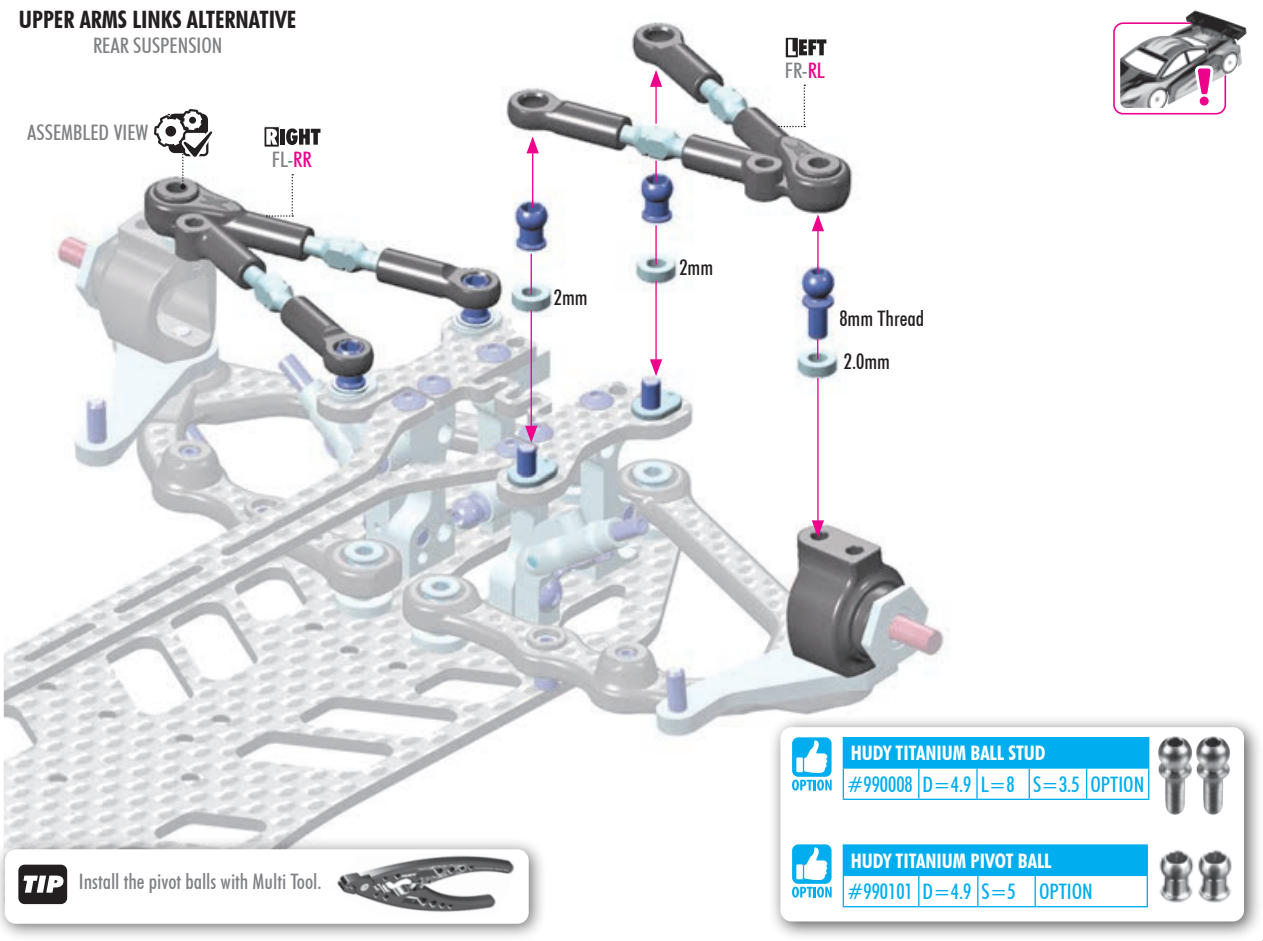
8mm Thread

2.0mm

TIP Install the pivot balls with Multi Tool.

HUDY TITANIUM BALL STUD
#990008 D=4.9 L=8 S=3.5 OPTION

HUDY TITANIUM PIVOT BALL
#990101 D=4.9 S=5 OPTION



4x 303122-K
SHIM 3x6x1

2x 303123-K
SHIM 3x6x2

UPPER ARMS LINKS ALTERNATIVE FRONT SUSPENSION

ASSEMBLED VIEW

RIGHT FR-RL

LEFT FL-RR

1.0mm

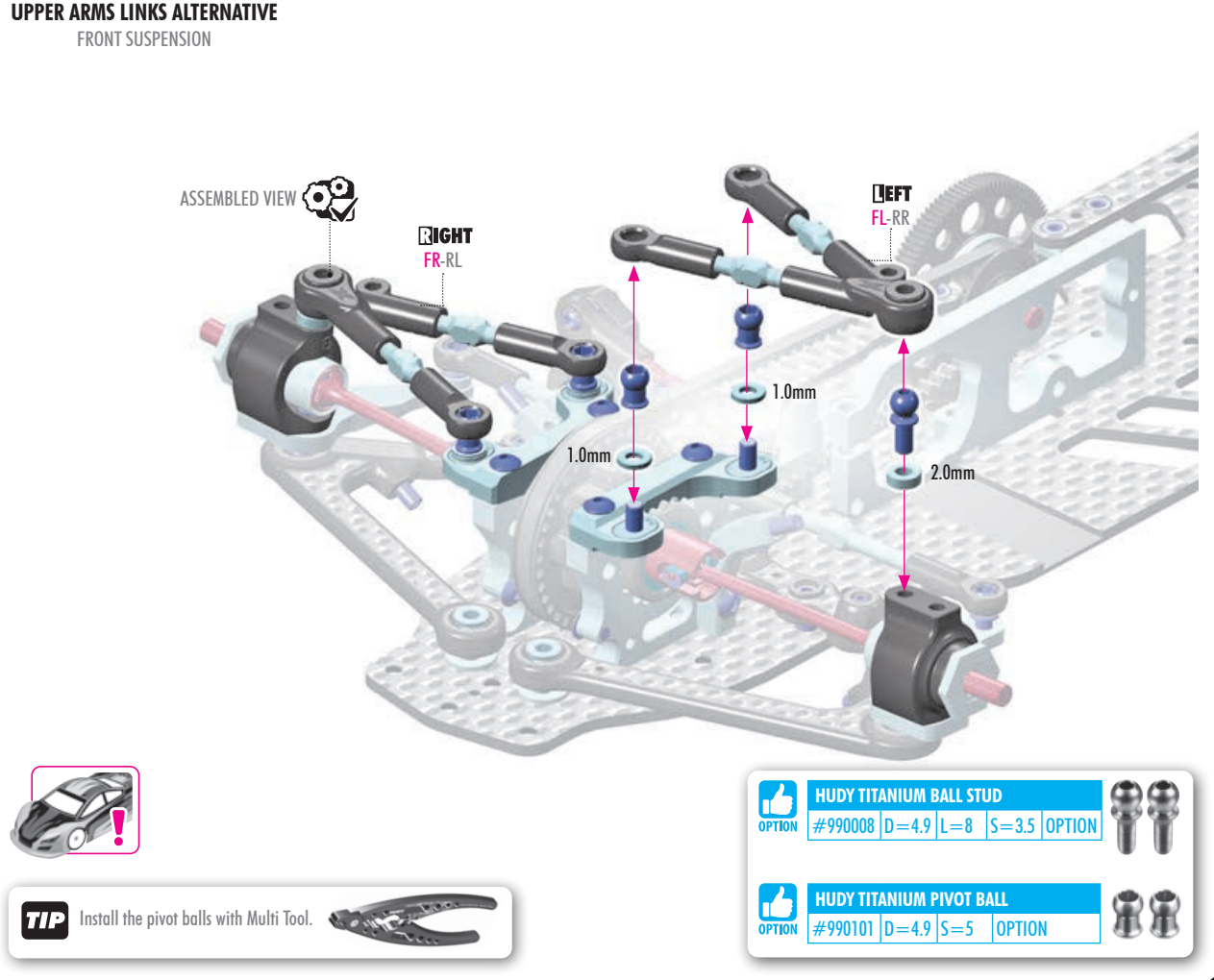
1.0mm

2.0mm

TIP Install the pivot balls with Multi Tool.

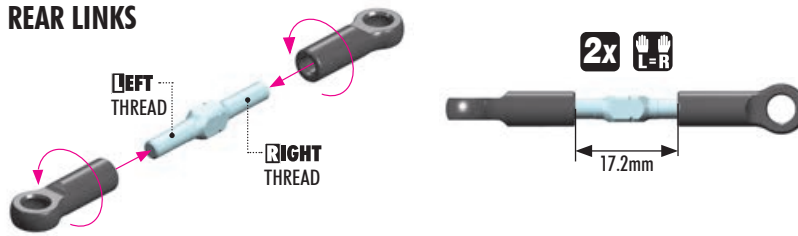
HUDY TITANIUM BALL STUD
#990008 D=4.9 L=8 S=3.5 OPTION

HUDY TITANIUM PIVOT BALL
#990101 D=4.9 S=5 OPTION



5. FRONT & REAR SUSPENSION

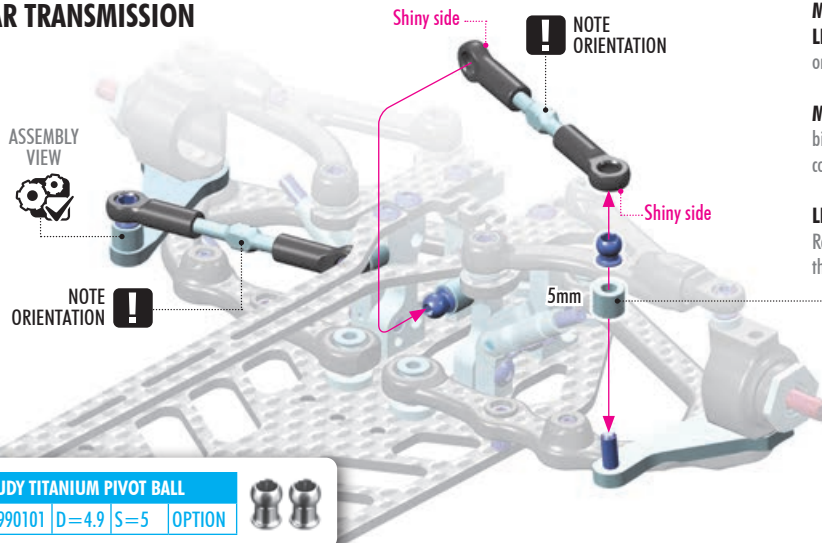
2x REAR LINKS



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



2x REAR TRANSMISSION



HUDY TITANIUM PIVOT BALL
#990101 D=4.9 S=5 OPTION

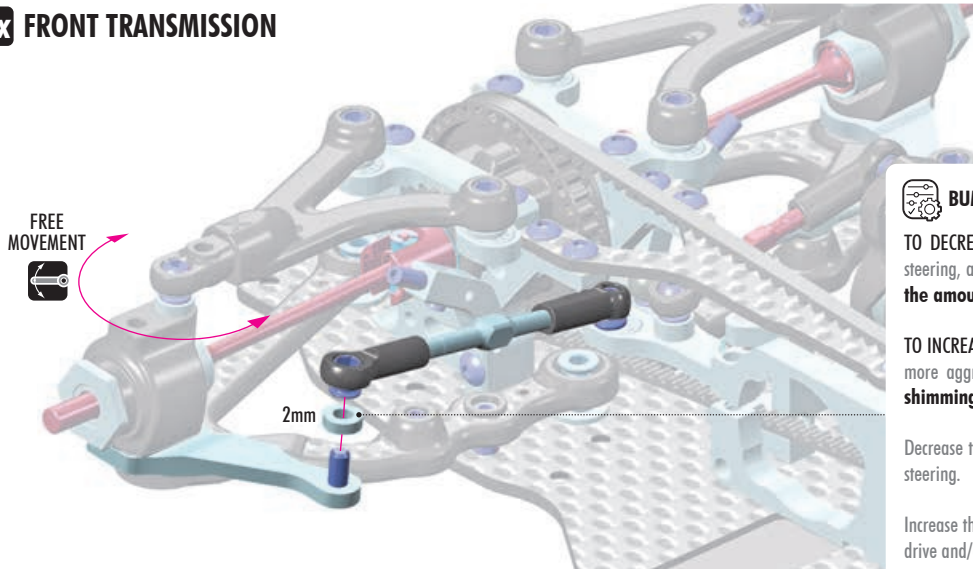
MORE SHIMS gives more toe-gain on compression.
LESS SHIMS gives less toe-gain (or even toe loss), on suspension compression.

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.



2x FRONT TRANSMISSION



BUMP STEER ADJUSTMENT

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

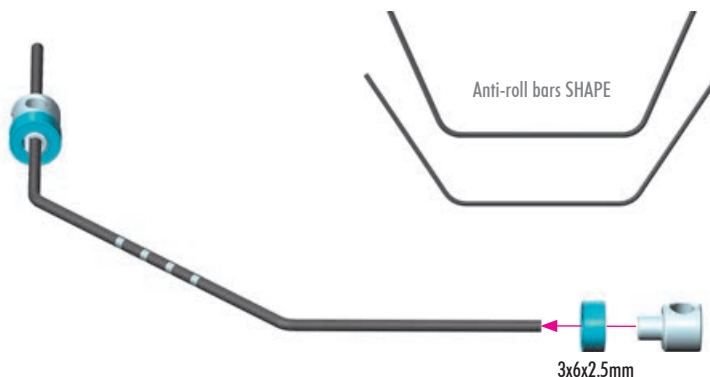
TO INCREASE bump steer, to make the steering more aggressive, **decrease the amount of shimming.**

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.



2x FRONT & REAR ANTI-ROLL BARS



FRONT ANTI-ROLL BARS		
#302831	1.1mm	OPTION
#302832	1.2mm	OPTION
#302833	1.3mm	INCLUDED
#302834	1.4mm	OPTION

REAR ANTI-ROLL BARS		
#303831	1.1mm	OPTION
#303832	1.2mm	INCLUDED
#303833	1.3mm	OPTION
#303834	1.4mm	OPTION
#303836	1.6mm	OPTION
#303838	1.8mm	OPTION



2x 303126-K
SHIM 3x6x5



VIDEO TECH TIP



REAR TOE-GAIN



2x 303123-K
SHIM 3x6x2

VIDEO TECH TIP



STEERING SYSTEM



2x 930306
BB 3x6x2.5

VIDEO TECH TIP



ANTI-ROLL BARS

5. FRONT & REAR SUSPENSION

2x



TIP

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

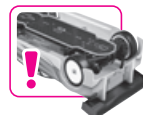


REAR ANTI-ROLL BAR

IMPORTANT:
DO NOT overtighten.

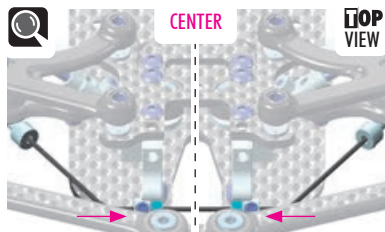
ASSEMBLED VIEW

BOTTOM VIEW

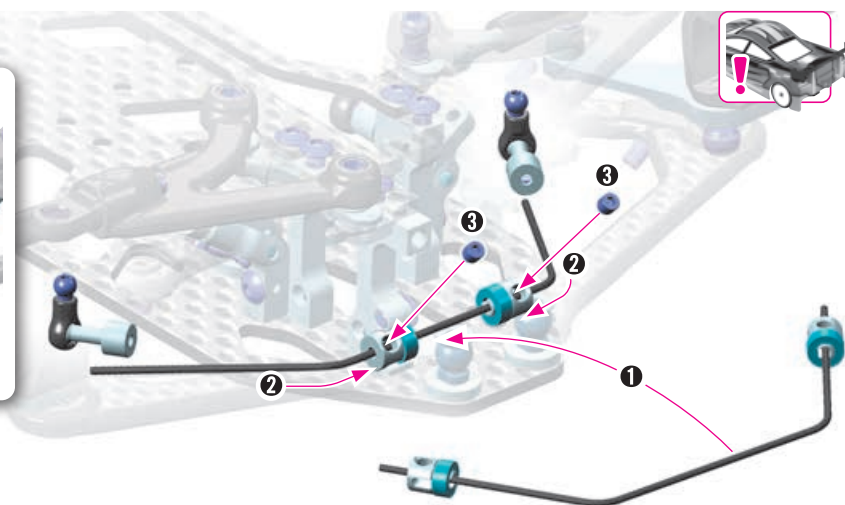


2x 901302
SB M3x2.5

REAR ANTI-ROLL BAR



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



OPTION

REAR ANTI-ROLL BARS

#303831	1.1mm	OPTION
#303832	1.2mm	INCLUDED
#303833	1.3mm	OPTION
#303834	1.4mm	OPTION
#303836	1.6mm	OPTION
#303838	1.8mm	OPTION

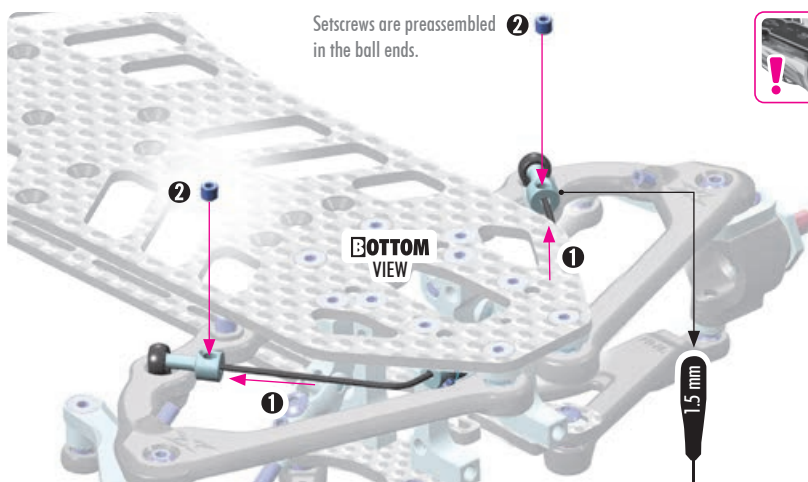
SOFTER rear anti-roll bar:

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.

Setscrews are preassembled in the ball ends.



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.



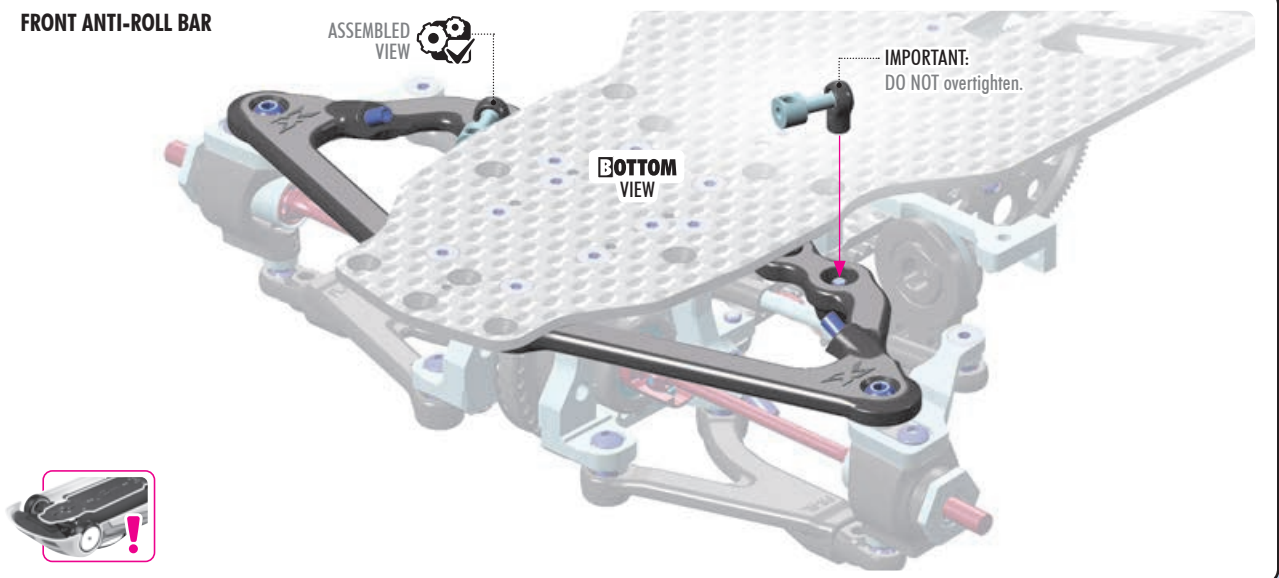
VIDEO TECH TIP



ANTI-ROLL BARS

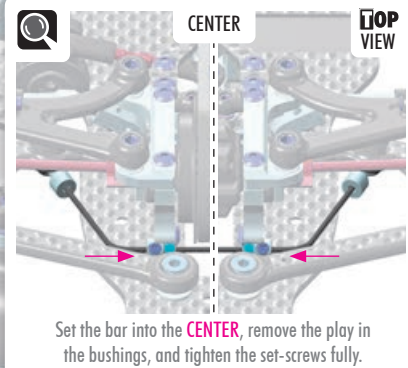
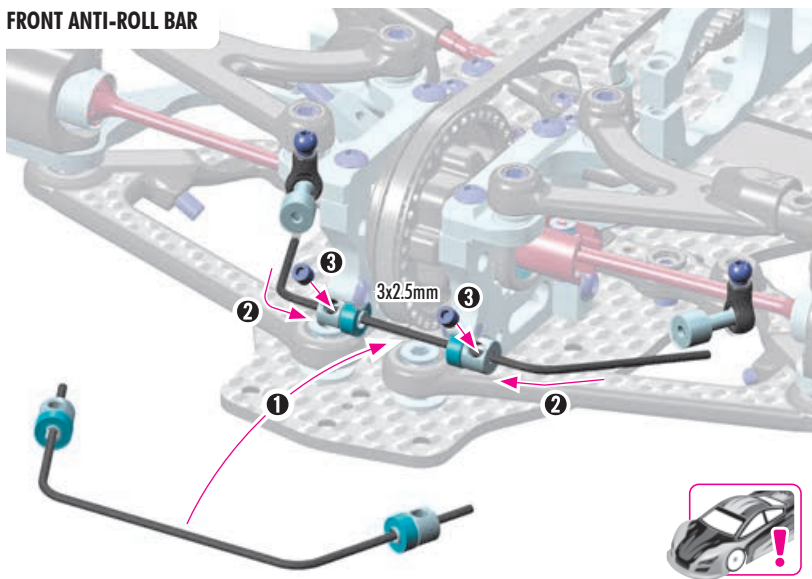
5. FRONT & REAR SUSPENSION

FRONT ANTI-ROLL BAR



2x 901302
SB M3x2.5

FRONT ANTI-ROLL BAR



FRONT ANTI-ROLL BARS

OPTION			
#302831	1.1mm	OPTION	
#302832	1.2mm	OPTION	
#302833	1.3mm	INCLUDED	
#302834	1.4mm	OPTION	

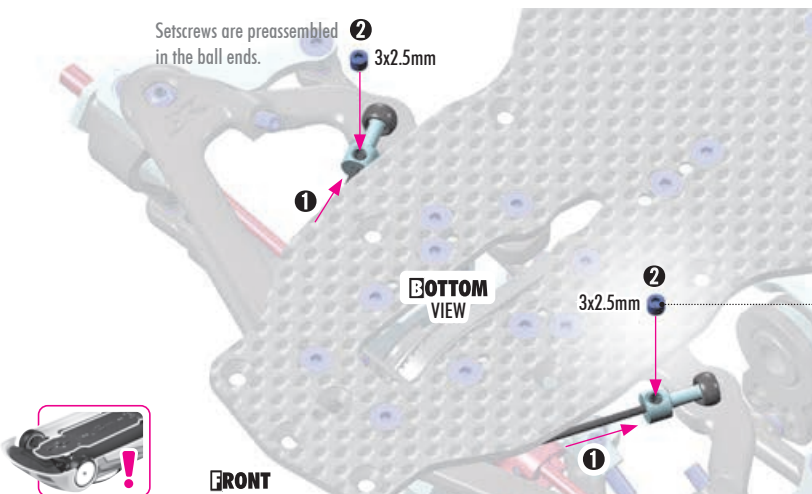
SOFTER front anti-roll bar:

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

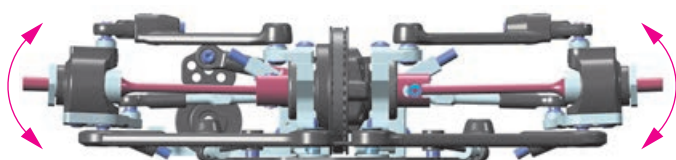
STIFFER front anti-roll bar:

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.

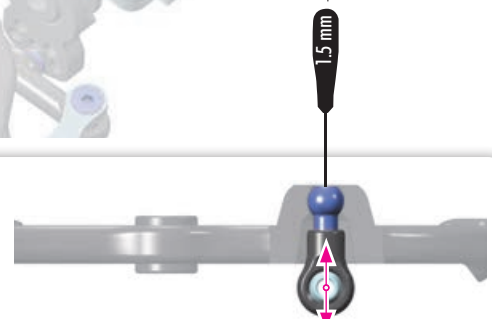
2x 901302
SB M3x2.5



FRONT



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.



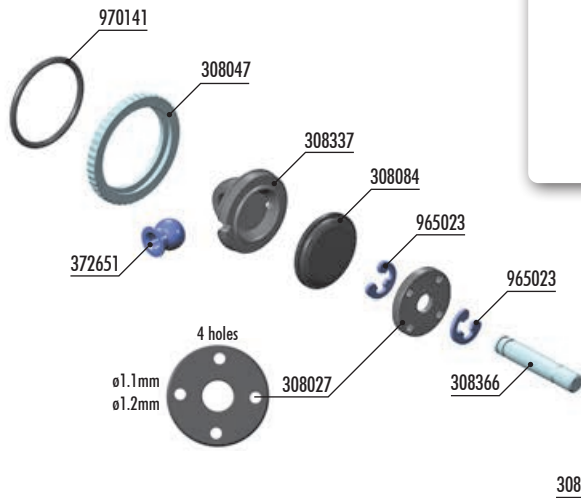
VIDEO TECH TIP



ANTI-ROLL BARS

6. SHOCK ABSORBERS

4x



#104002 or #104003
HUDY AIR VAC – VACUUM PUMP - ON-ROAD



XRAY SPRINGS

#308164	C = 2.4-2.7	OPTION
#308165	C = 2.5-2.8	INCLUDED
#308166	C = 2.6-2.9	OPTION
#308175	C = 2.5	OPTION
#308176	C = 2.6	INCLUDED
#308177	C = 2.7	OPTION
#308178	C = 2.8	OPTION
#308179	C = 2.9	OPTION
#308180	C = 3.0	OPTION



#308129
XLP2 ALU PROGRESSIVE SHOCK SYSTEM - SET (2)

The progressive shock inserts improve steering characteristics. The XLP2 PSS set fits the stock XLP2 shock bodies included in the kit. Must be used with: #308026 - XLP Progressive Pistons.



#308026
XLP COMPOSITE 2-HOLE ø0.8mm PROGRESSIVE PISTON (4)



HUDY TITANIUM PIVOT BALL

#990101 | D=4.9 | S=5 | OPTION



#308033-K
ALU XLP SHOCK SPRING RETAINING COLLAR - BLACK (4)



VIDEO TECH TIP SHOCKS & SPRINGS

BAG

06

308027 XLP COMPOSITE 4-HOLE 1.1-1.2MM PISTON (2+2)
308047 XLP2 ALU SHOCK ADJUSTABLE NUT - BLACK (2)
308084 XLP2 SILICONE HYPER RESISTANT MEMBRANE (4)
308311 XLP2 ALU SHOCK ABSORBER-SET (2)
308329 XLP2 ALU SHOCK BODY (2)
308328-K XLP ALU CAP FOR SHOCK BODY - BLACK (2)
308337 XLP2 COMPOSITE SHOCK PARTS WITH 2 HOLES
308366 XLP2 HARDENED SHOCK SHAFT (2)
372651 PIVOT BALL UNIVERSAL 4.9 MM - HUDY SPRING STEEL™ (2)

965023 E-CLIP 2.3 (10)
970141 O-RING 14 x 1.0 (10)
972030 SILICONE O-RING 3 x 2 (10)

308165 XLP SPRING-SET PROGRESSIVE C=2.5-2.8 (2)
308176 XLP SPRING-SET C=2.6 (2)

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

8x 965023
E2.3

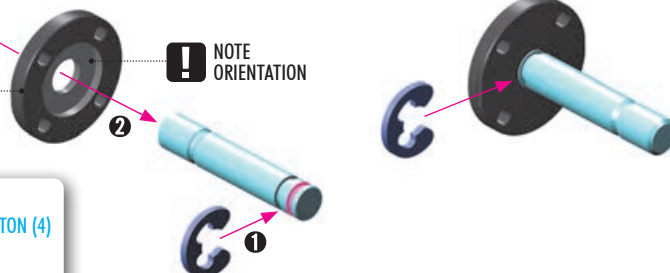
4x

INITIAL SETTING



INITIAL SETTING

NOTE ORIENTATION



ø0.8mm



#308026
XLP COMPOSITE 2-HOLE ø0.8mm PROGRESSIVE PISTON (4)



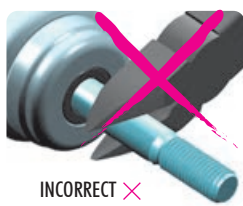
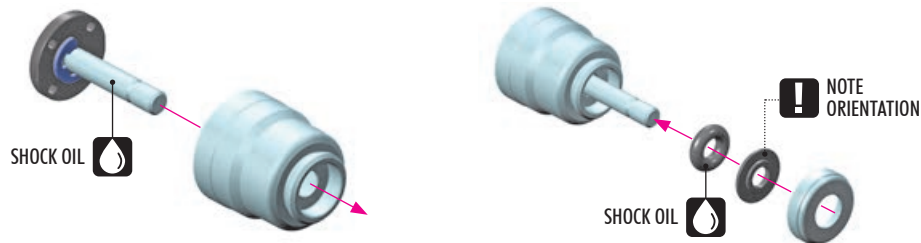
These pistons must be used with optional:
#308129 XLP2 PROGRESSIVE SHOCK INSERTS

6. SHOCK ABSORBERS

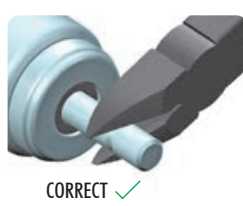


4x 972030
0 3x2

4x

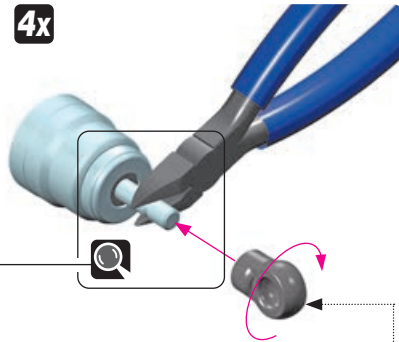


INCORRECT ✗



CORRECT ✓

4x



Pre-thread the ball joint using an M3 screw.

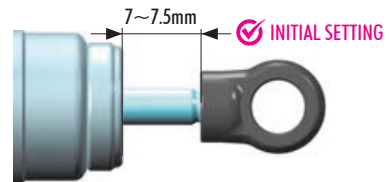
TIP

Be careful NOT to pre-thread too far, since the ball joint may split or the plastic threads may strip out.

!

4x

The necessary shock length depends on the downstop setting. When using minimum downstop, increase the shock length.



INITIAL SETTING

#183070
HUDY ALU SHOCK PLIERS

We recommend using HUDY shock pliers when adjusting shock length. These pliers allow super easy and comfortable shock length adjustment.



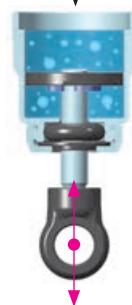
VIDEO TECH TIP



HUDY AIR-VAC SHOCK BUILD

OIL 350cSt

4x



SHOCK FILLING

- 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.



SHOCK OILS (50ml)

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

TIP



#104002 or #104003
HUDY AIR VAC - VACUUM PUMP



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



REBOUND ADJUSTMENT

IMPORTANT

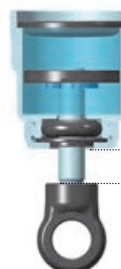
When building the shocks with brand new membranes, some rebound may occur. After a few runs, or letting the shock settle for 24 hours, the membrane will break-in and zero rebound will be possible.

Insert shock membrane.

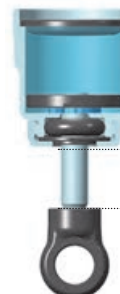


0~25% Rebound
INITIAL SETTING

For most conditions, 0-25% rebound is recommended. This is the most forgiving and best to absorb bumps. Cornering speed is generally the best with this setting.



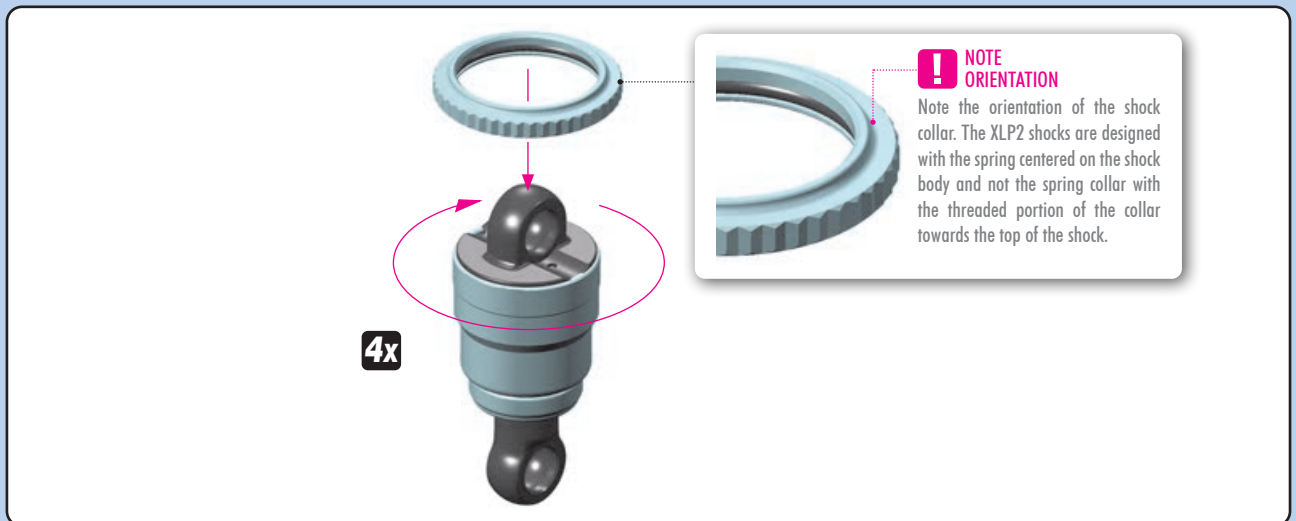
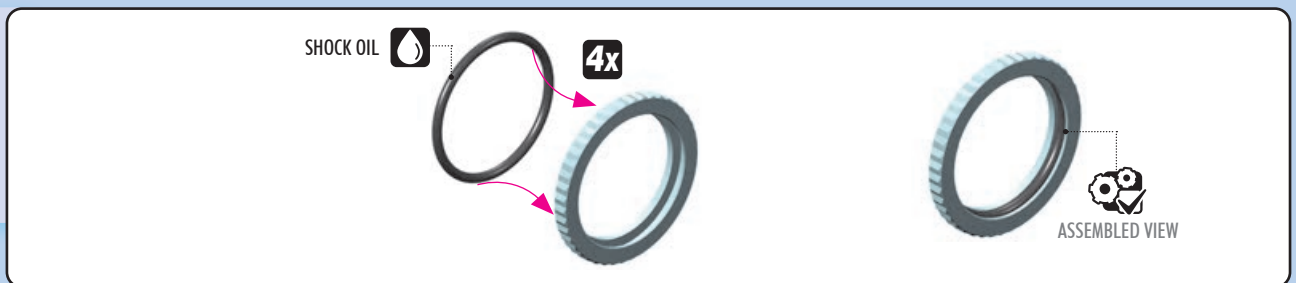
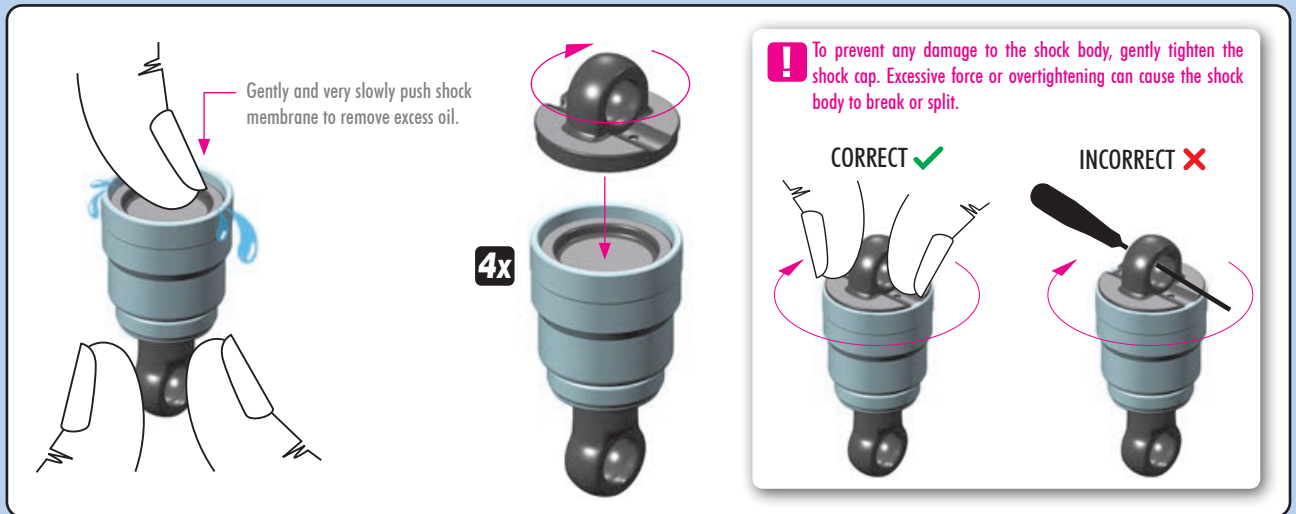
50% Rebound



100% Rebound

For certain low traction conditions, adding additional rebound may improve initial reaction and side bite. Direction change will be faster and may feel like the car is creating more traction. Note that higher rebound settings will make the car less stable over bumps and may increase the tendency to traction roll.

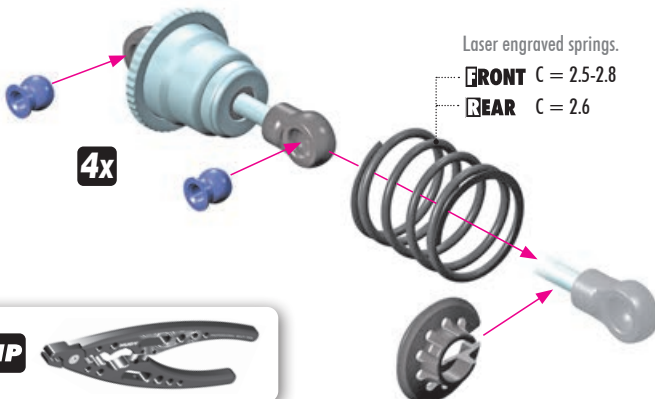
6. SHOCK ABSORBERS



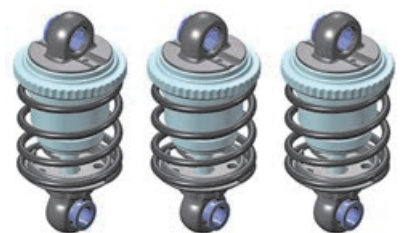
SHOCK LENGTH ADJUSTMENT:

! It is **VERY IMPORTANT** that all shocks are equal length.

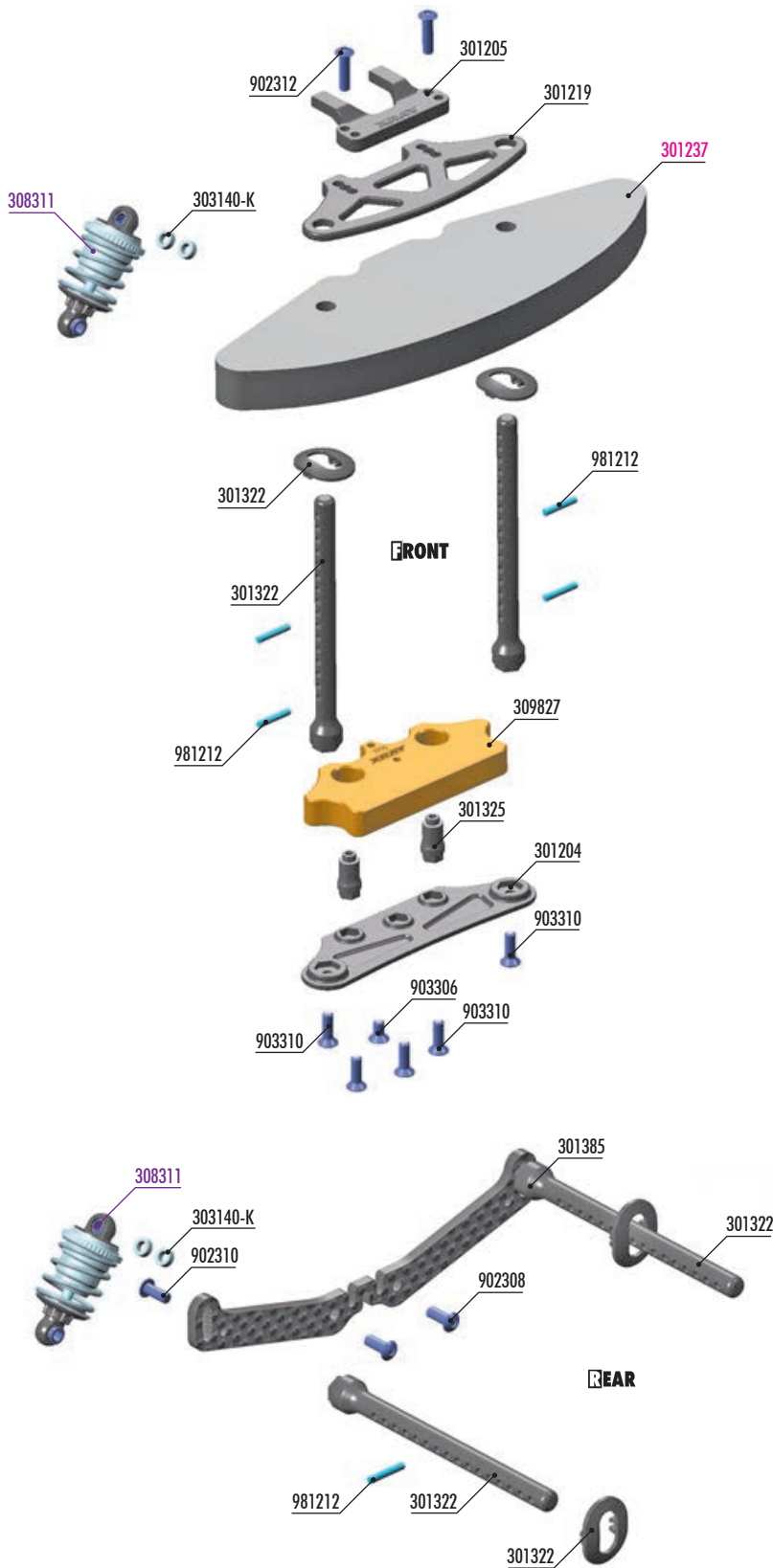
Fully extend the shock absorber and measure the end-to-end length; we recommend using digital calipers to give an accurate measurement. If a shock absorber is shorter or longer than others, adjust the shock length by tightening or loosening the ball joint on the shock rod.



ASSEMBLED VIEW



7. FRONT & REAR ASSEMBLY



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

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

#301210

CARBON UPPER HOLDER - 2.5mm

(Alu shim 4x6x2mm - INCLUDED)

A black, textured carbon upper holder with a complex, elongated shape featuring several cutouts and mounting points. Two silver-colored screws are positioned above the holder, and a small, rectangular aluminum shim is placed to the left of the holder.

#309826-L

X4F WEIGHT FRONT

#301322-H

HARD COMPOSITE HORIZONTAL
REAR BODY MOUNT POST - SET

	#301351-O	ALU ADJUSTABLE BODY POST STOP (2)
OPTION		

#301351-K

ALU ADJUSTABLE BODY POST STOP (2)

OPTION

BAG

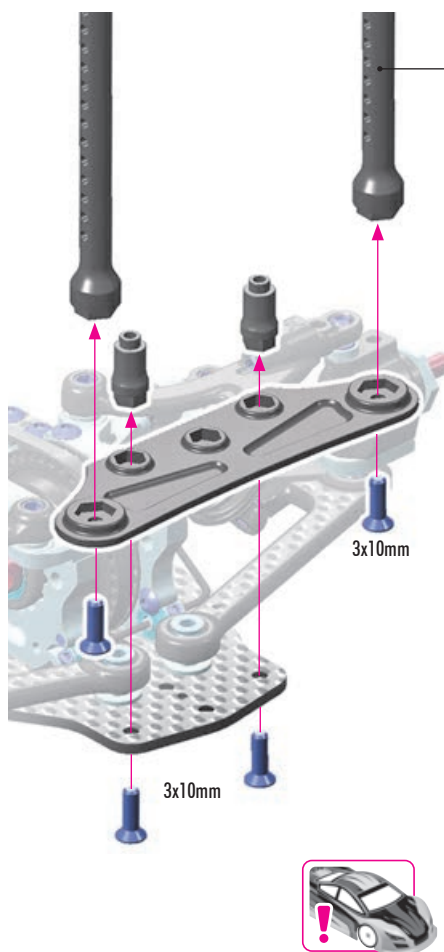
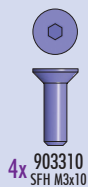
07

301204	COMPOSITE BUMPER
301205	X4 COMPOSITE LONGER BUMPER UPPER HOLDER BRACE
301219	COMPOSITE UPPER HOLDER FOR BUMPER
301322	FRONT BODY MOUNT SET
301325	COMPOSITE BRACE FOR BUMPER - LOW (2)
301385	X4F CARBON BODY POST & BODY POST HOLDER - ONE-PIECE
303140-K	ALU SHIM 3x5x2.0mm - BLACK (10)
309827	X4F BUMPER WEIGHT FRONT 100g
902308	HEX SCREW SH M3x8 (10)
902310	HEX SCREW SH M3x10 (10)
902312	HEX SCREW SH M3x12 (10)

903306	HEX SCREW SFH M3x6 (10)
903310	HEX SCREW SFH M3x10 (10)
981212	PIN 2x12 (10)
301237	X4F FOAM BUMPER FOR 100g WEIGHT - HARD
308311	XP2 ALU SHOCK ABSORBER-SET - BLACK (2)

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

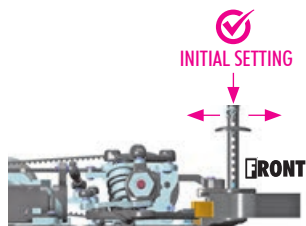
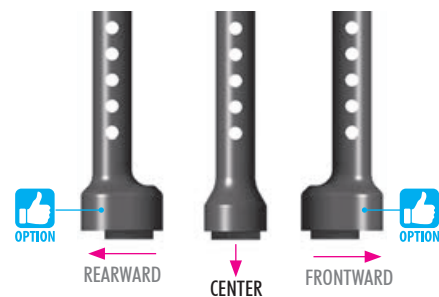
7. FRONT & REAR ASSEMBLY



FRONT BODY POST ORIENTATION

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

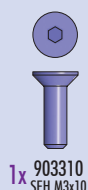
- The body in the **REARWARD POSITION** makes the car super stable and very easy to drive. It makes the car easier to drive in chicanes and more predictable in high-traction conditions.
- The body in the **CENTER POSITION** makes the car more aggressive and steer faster, but is a slightly more difficult to drive in low-grip conditions.
- The body in the **FORWARD POSITION** is the most aggressive. It makes the car steer a lot, but is more difficult to drive when the traction is high or when the track has a lot of chicanes.



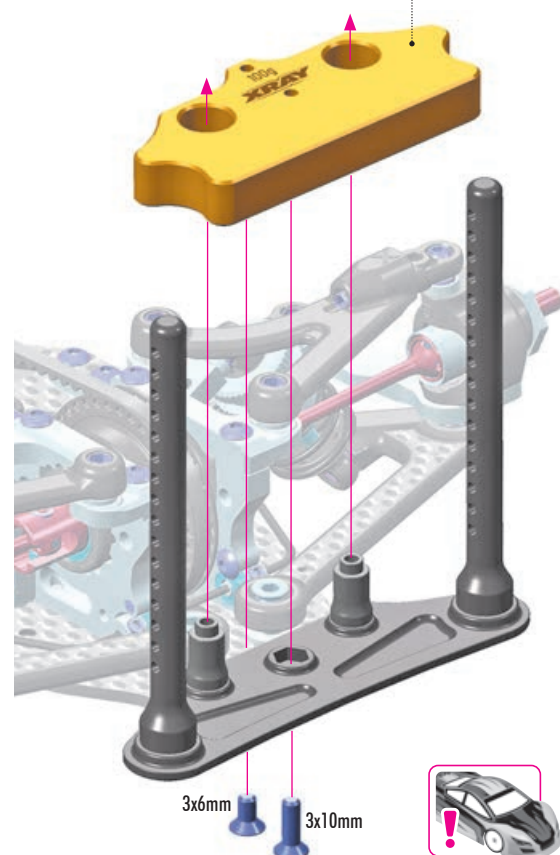
It is important to use the same body setting (rearward and center) on both front and rear body posts at the same time.

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

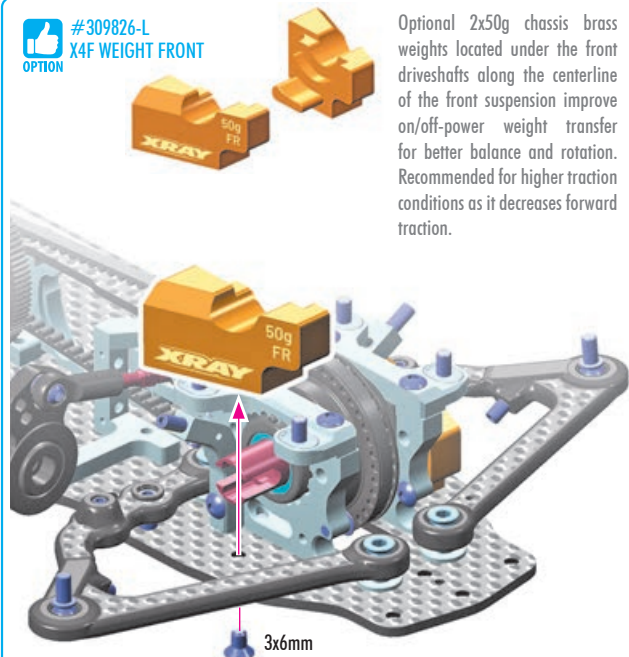
FRONT ECC. BODY MOUNT SET			
#301326	0mm	OPTION	
#301327	+1mm	OPTION	
#301328	+2mm	OPTION	



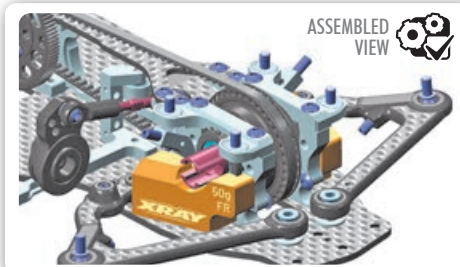
For very low to medium traction conditions, we recommend the X4F bumper weight to improve front traction for the car. The weight helps to improve stability of the car.



#309826-L X4F WEIGHT FRONT



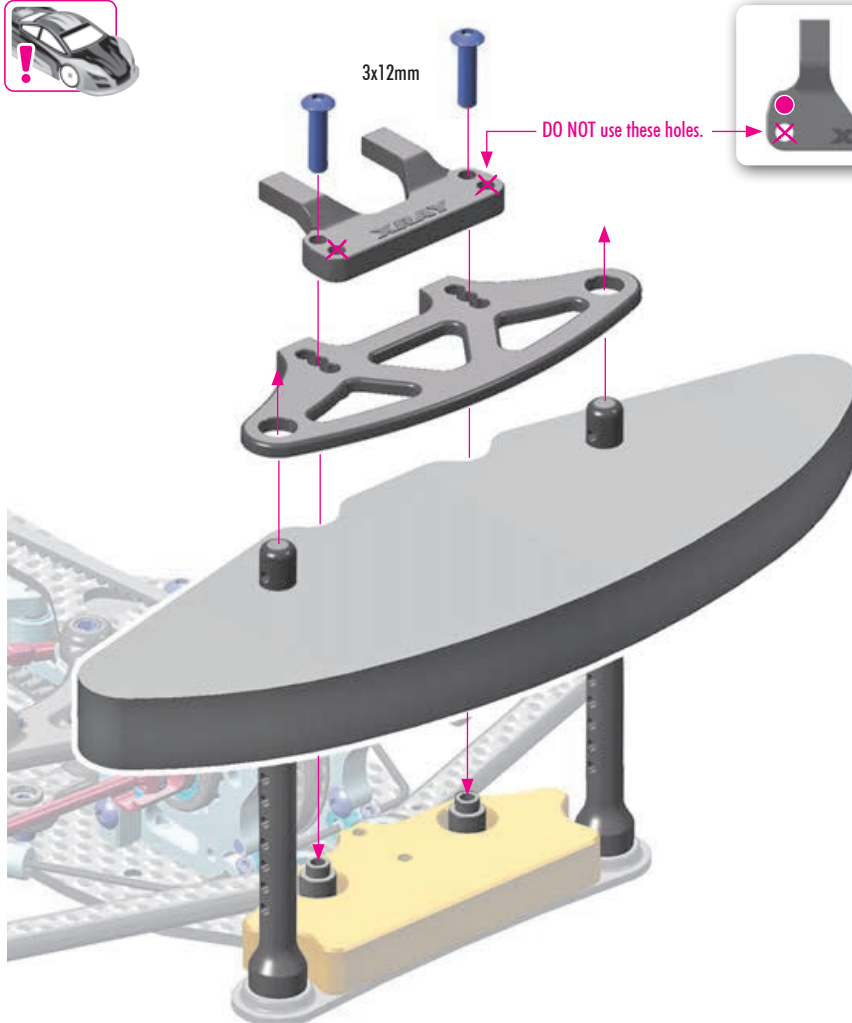
Optional 2x50g chassis brass weights located under the front driveshafts along the centerline of the front suspension improve on/off-power weight transfer for better balance and rotation. Recommended for higher traction conditions as it decreases forward traction.



7. FRONT & REAR ASSEMBLY



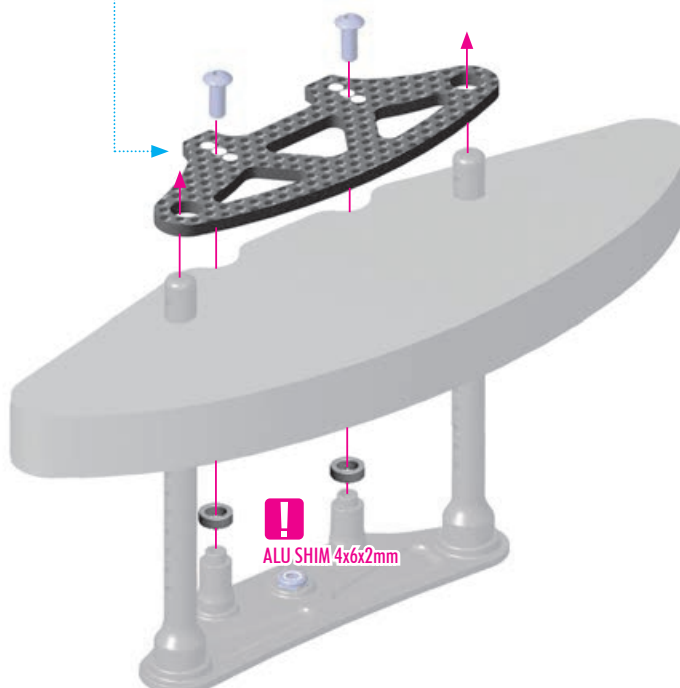
2x 902312
SH M3x12



INITIAL
SETTING



#301210
CARBON UPPER HOLDER FOR BUMPER 2.5mm
(Alu shim 4x6x2mm - INCLUDED)



7. FRONT & REAR ASSEMBLY




4x 981212
P 2x12

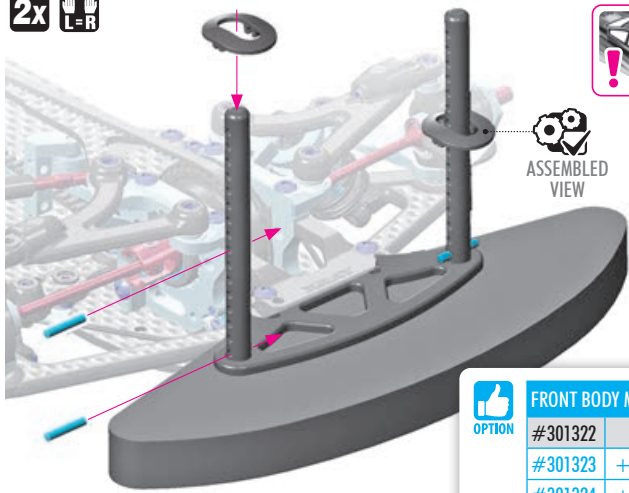


VIDEO TECH TIP





FRONT BODY UPSTOP
SYSTEM


2x 




ASSEMBLED
VIEW


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




 **#301351-K**
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 BODY MOUNT SET**

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



 **FRONT ECC. BODY MOUNT SET**

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






4x 303140-K
SHIM 3x5x2



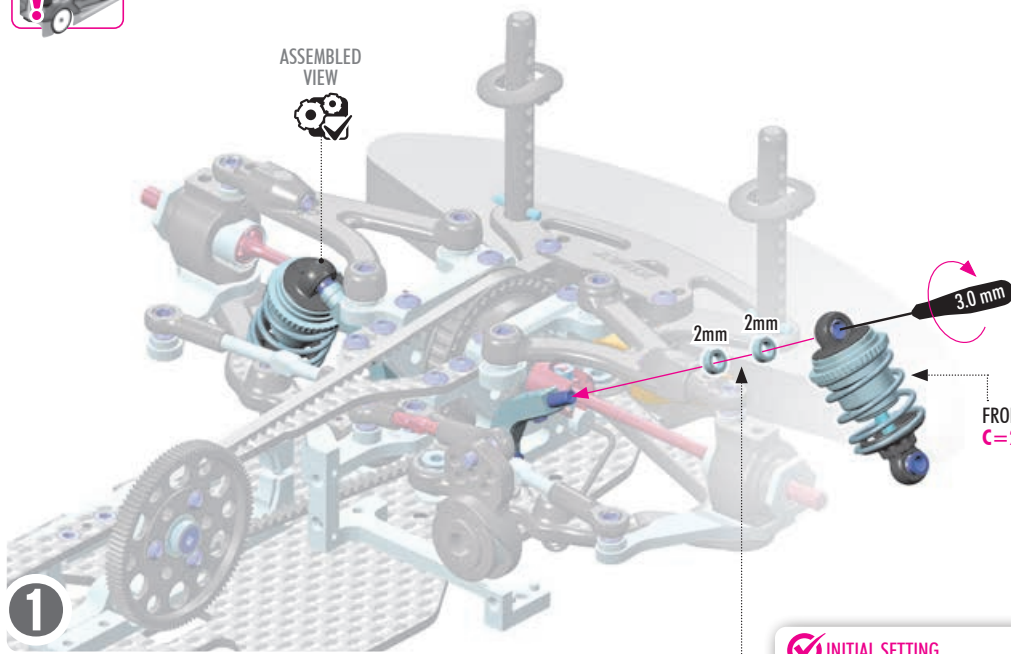
VIDEO TECH TIP



SHOCKS & SPRINGS



ASSEMBLED
VIEW

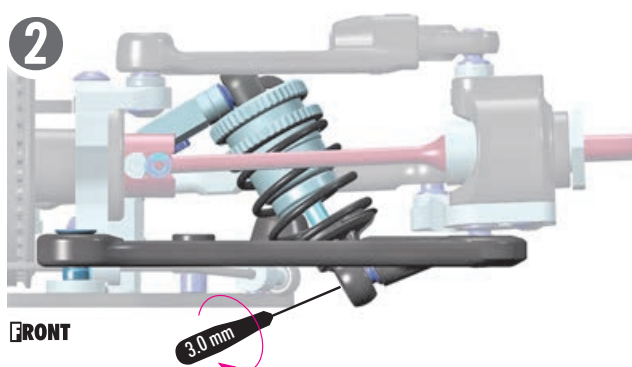


2mm 2mm 3.0 mm

FRONT SHOCK SPRING
C=2.5-2.8


1

2

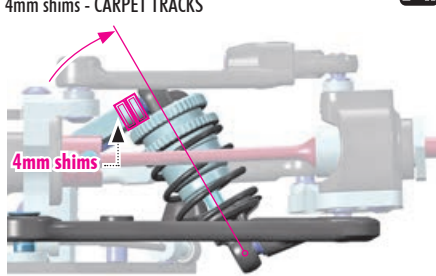


FRONT


3.0 mm

 **INITIAL SETTING**

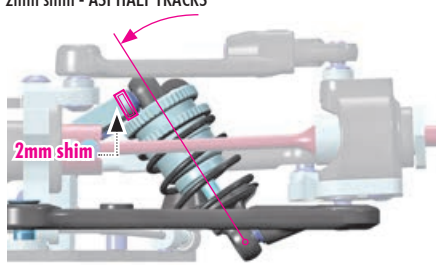
4mm shims - CARPET TRACKS




4mm shims


 **INITIAL SETTING**


2mm shim - ASPHALT TRACKS





2mm shim

 **#308129**
XLP2 ALU PROGRESSIVE SHOCK SYSTEM - SET (2)

 The progressive shock inserts improve steering characteristics. The XLP2 PSS set fits the stock XLP2 shock bodies included in the kit. Must be used with #308026 - XLP Progressive Pistons.

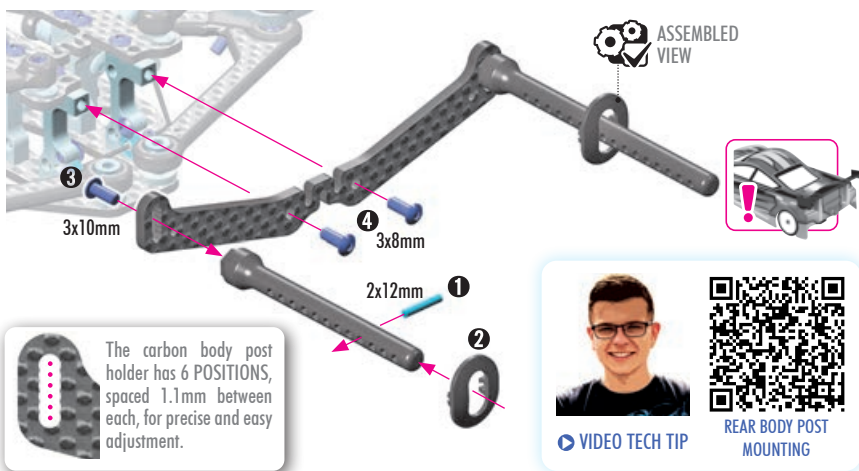


 **#308026**
XLP COMPOSITE 2-HOLE
ø0.8mm PROGRESSIVE
PISTON (4)



7. FRONT & REAR ASSEMBLY

- 2x 902308 SH M3x8
- 2x 902310 SH M3x10
- 2x 981212 P 2x12



#301322-H HARD COMPOSITE HORIZONTAL REAR BODY MOUNT POST - SET

Optional HARD posts eliminates the flex of the horizontal mounting. Use these posts only for horizontal body mounting.



Optional horizontal rear body mounting has shown benefits on medium to high grip conditions, especially on technical tracks, by improving directional changes, steering response and rotation. Note that rear grip is also reduced, so may be useful in Stock or Super Stock spec class racing.

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



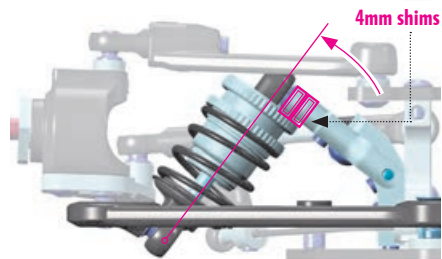
#301351-K ALU ADJUSTABLE BODY POST STOP (2)



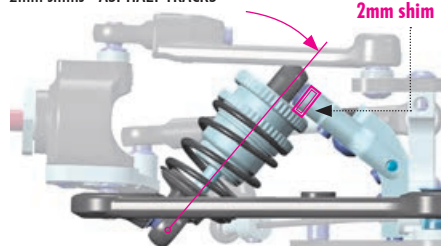
Very handy, easily externally adjustable body post made from Swiss 7075 T6 aluminum. Allows for adjustment of body height by 3mm without needing to change the position on the body post.



INITIAL SETTING 4mm shims - CARPET TRACKS



INITIAL SETTING 2mm shims - ASPHALT TRACKS



REAR SHOCK SPRING
C=2.6

3.0 mm

2mm

2mm

ASSEMBLED VIEW



REAR

1

2

#308129 XLP2 ALU PROGRESSIVE SHOCK SYSTEM - SET (2)

The progressive shock inserts improve steering characteristics. The XLP2 PSS set fits the stock XLP2 shock bodies included in the kit. Must be used with #308026 - XLP Progressive Pistons.



#308026 XLP COMPOSITE 2-HOLE ø0.8mm PROGRESSIVE PISTON (4)



VIDEO TECH TIP

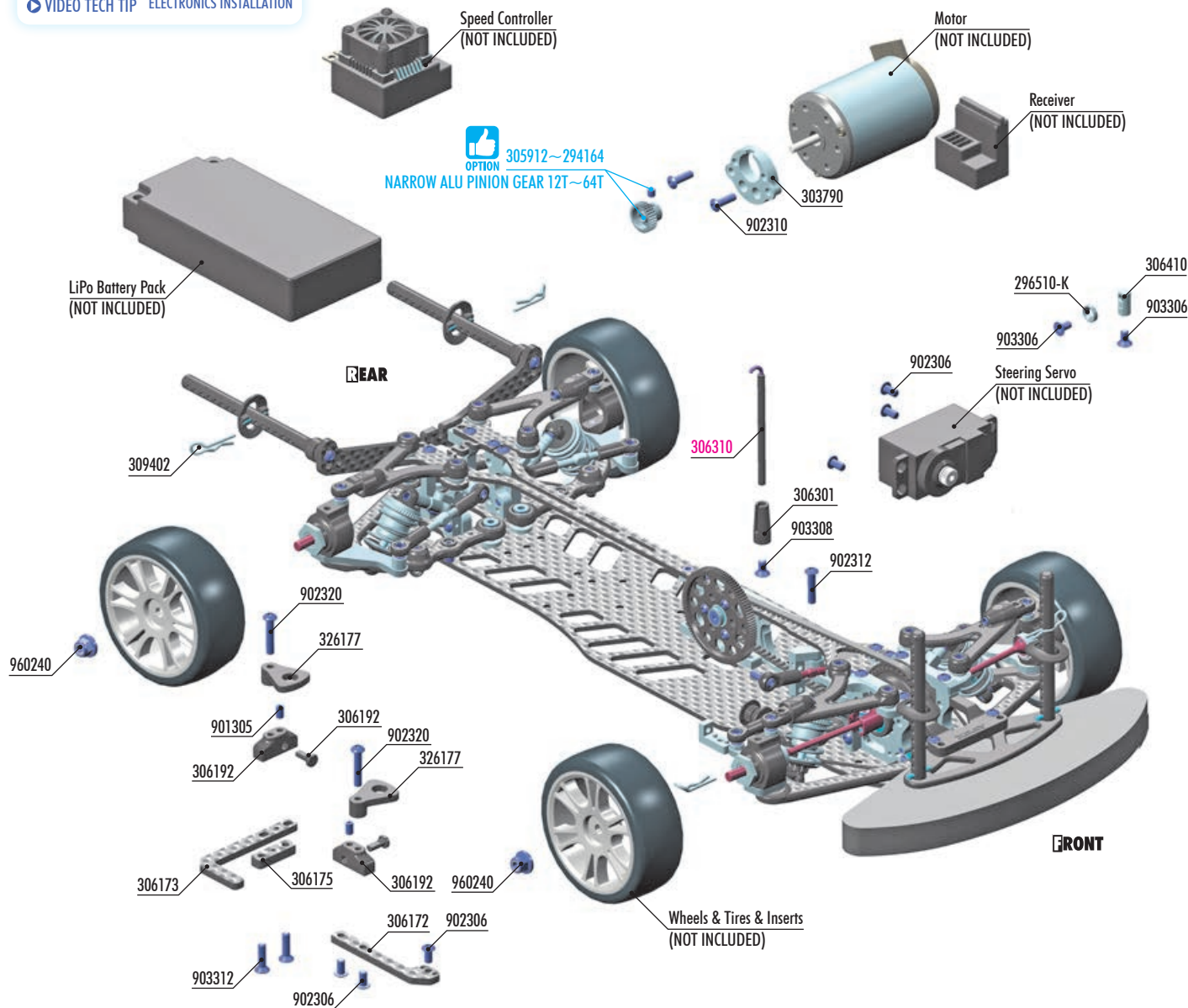


SHOCK SHIMMING
TUTORIAL

7. FINAL ASSEMBLY



VIDEO TECH TIP ELECTRONICS INSTALLATION



HUDY ALU RC FAN 30mm & 40mm (on page 43)



TUNGSTEN & STAINLESS STEEL WEIGHTS (on page 42 and 45)



#306410 ALU FAN MOUNT



ALU REAR WING SHIM

#	COLOR	BRAND	OPTION
#353561	SILVER	XRAY	OPTION
#293561	SILVER	HUDY	OPTION
#293561-K	BLACK	HUDY	OPTION
#293561-O	ORANGE	HUDY	OPTION



BAG

07

305912~294160 NARROW ALU PINION GEAR 12T~60T (OPTION)

- 296510-K ALU COUNTERSUNK SHIM - BLACK (10)
- 303790 ALU ECCENTRIC MOTOR BULKHEAD INSERT
- 306172 X4F CARBON BATTERY HOLDER - FRONT
- 306173 X4F CARBON BATTERY HOLDER - REAR
- 306175 CARBON BATTERY PLATE SHIM (2)
- 306192 COMPOSITE ADJUSTABLE BATTERY HOLDER & BACKSTOP (2+2)
- 306301 ANTENNA MOUNT - THIN
- 306410 ALU UNIVERSAL MOUNT
- 309402 BODY CLIP FOR 6mm BODY POST (4)
- 326177 COMPOSITE BATTERY CLAMP (2)

- 901305 HEX SCREW SB M3x5 (10)
- 902306 HEX SCREW SH M3x6 (10)
- 902310 HEX SCREW SH M3x10 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 902320 HEX SCREW SH M3x20 (10)
- 903306 HEX SCREW SFH M3x6 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 903312 HEX SCREW SFH M3x12 (10)
- 960240 NUT M4 WITH SERRATED FLANGE (10)

306310 ANTENNA (2)

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

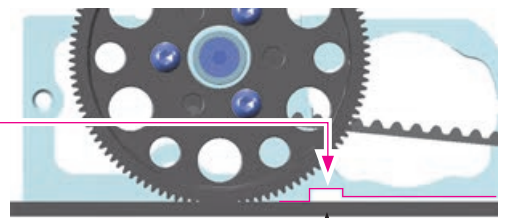
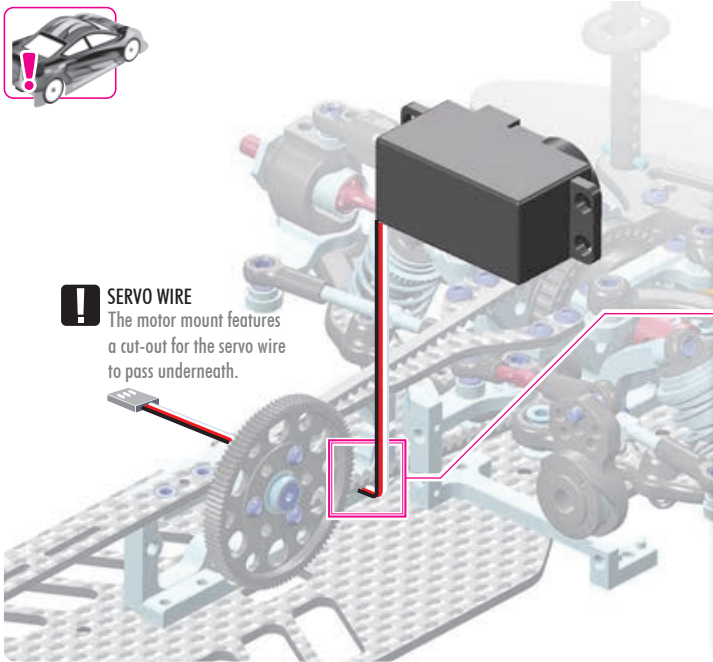
XRAY

7. FINAL ASSEMBLY



! SERVO WIRE

The motor mount features a cut-out for the servo wire to pass underneath.



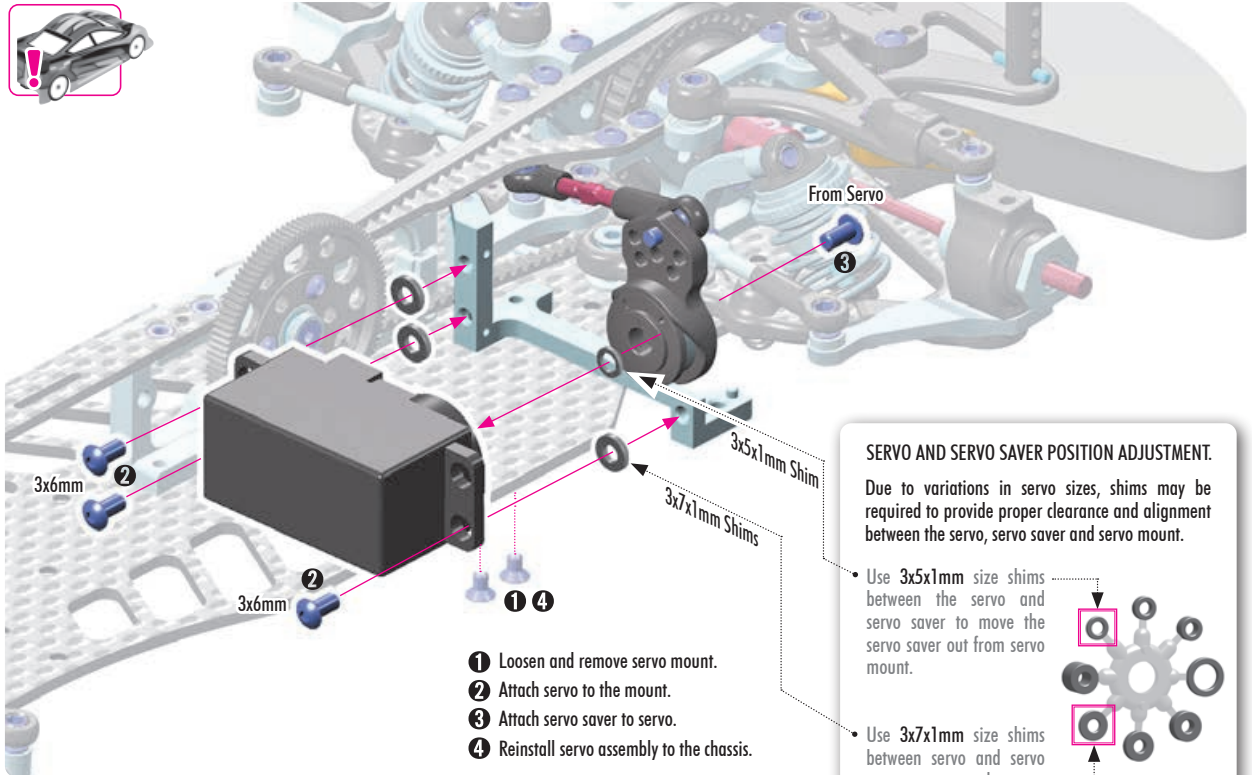
(Tighten the motor mount screws)

! SERVO WIRE

The motor mount features a cut-out for the servo wire to pass underneath. When installing servo, loosen the motor mount, place the servo wire in the groove, and then tighten the motor mount and top deck.



3x 902306
SH M3x6

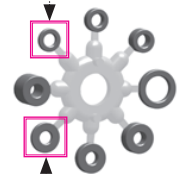


- 1 Loosen and remove servo mount.
- 2 Attach servo to the mount.
- 3 Attach servo saver to servo.
- 4 Reinstall servo assembly to the chassis.

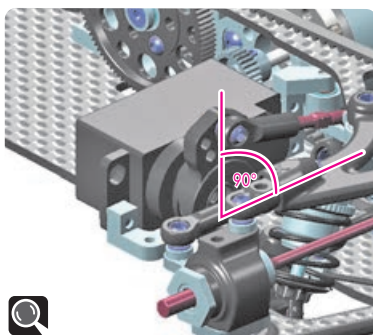
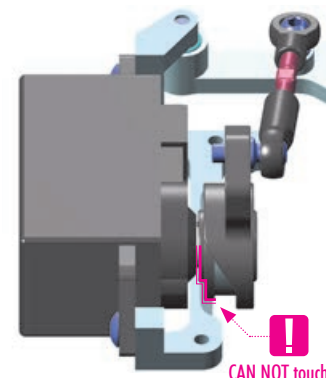
SERVO AND SERVO SAVER POSITION ADJUSTMENT.

Due to variations in servo sizes, shims may be required to provide proper clearance and alignment between the servo, servo saver and servo mount.

- Use 3x5x1mm size shims between the servo and servo saver to move the servo saver out from servo mount.



- Use 3x7x1mm size shims between servo and servo mount to move the servo more back.



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

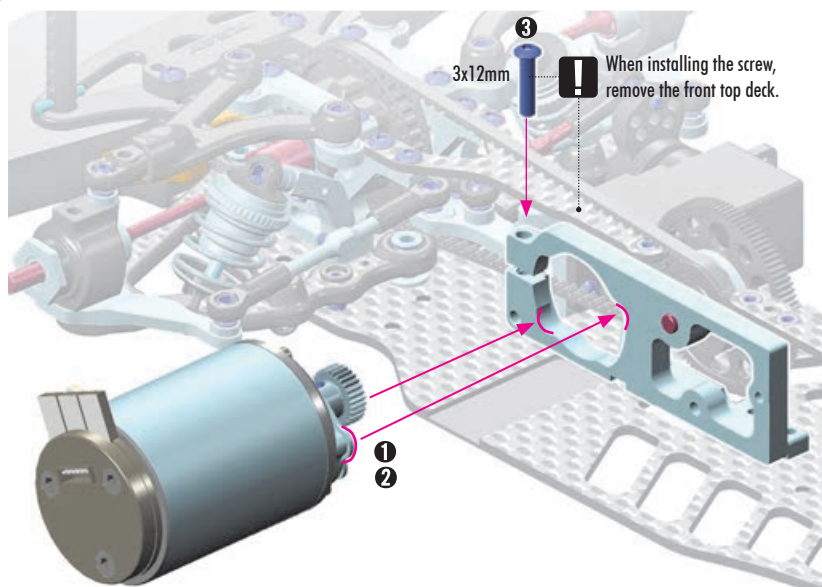
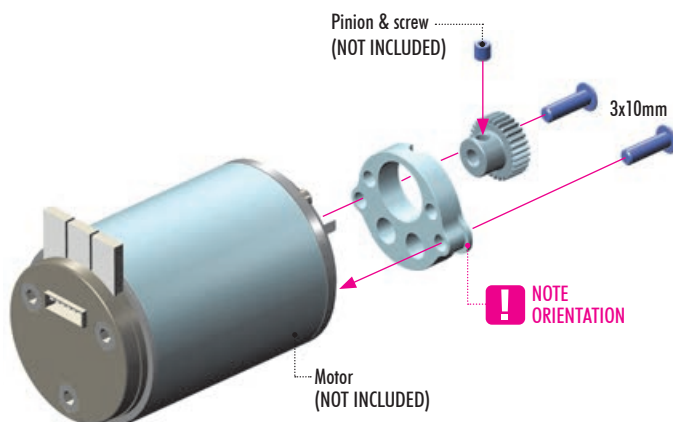


VIDEO TECH TIP



STEERING SYSTEM

7. FINAL ASSEMBLY



The most-used FWD ratios are 4.5 and 5. Use these recommended spur gears and pinions to achieve the desired ratio.

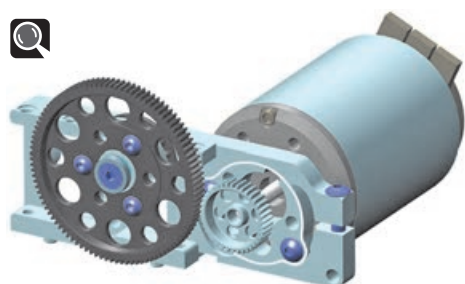
4.5 ratio - 90T spur / 38T pinion

5 ratio - 100T spur / 38T pinion

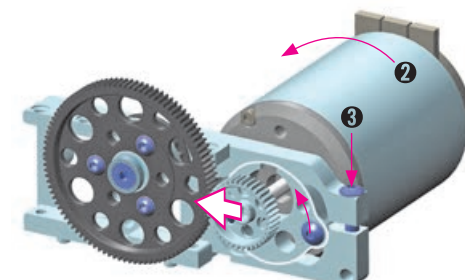


ALU PINION GEARS (OPTION)

#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
#294017 17T / 48P	#294123 23T / 64P
#294018 18T / 48P	#294124 24T / 64P
#294019 19T / 48P	#294125 25T / 64P
#294020 20T / 48P	#294126 26T / 64P
#294021 21T / 48P	#294127 27T / 64P
#294022 22T / 48P	#294128 28T / 64P
#294023 23T / 48P	#294129 29T / 64P
#294024 24T / 48P	#294130 30T / 64P
#294025 25T / 48P	#294131 31T / 64P
#305926 26T / 48P	#294132 32T / 64P
#305927 27T / 48P	#294133 33T / 64P
#305928 28T / 48P	#294134 34T / 64P
#305929 29T / 48P	#294135 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
	#294146 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
	#294162 62T / 64P
	#294164 64T / 64P



1 Attach the motor to the eccentric motor holder in the indicated orientation. Tighten the mounting screws.



2 Adjust the gear mesh by rotating the eccentric motor holder.

3 Tighten the clamp screw.

2 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.



7. FINAL ASSEMBLY



1x 903308
SFH M3x8



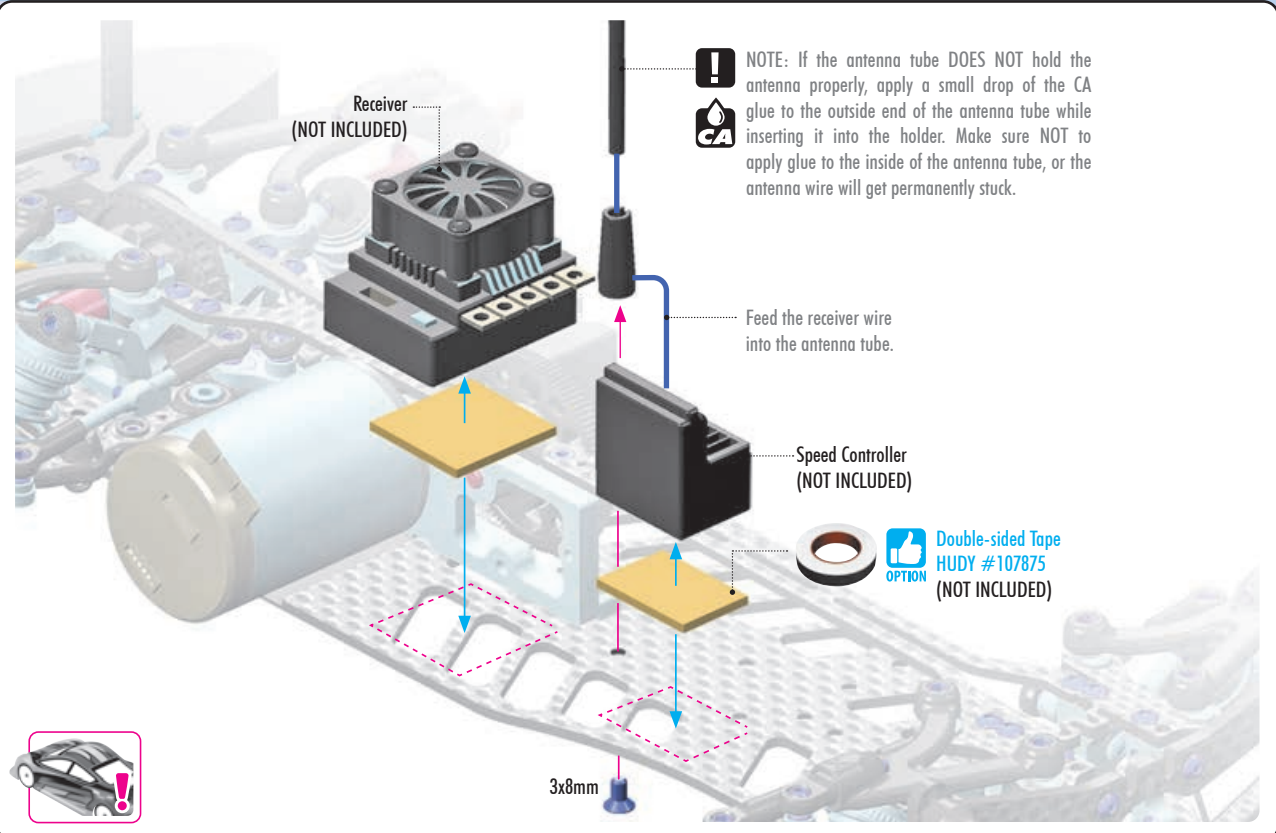
VIDEO TECH TIP



WEIGHT BALANCE



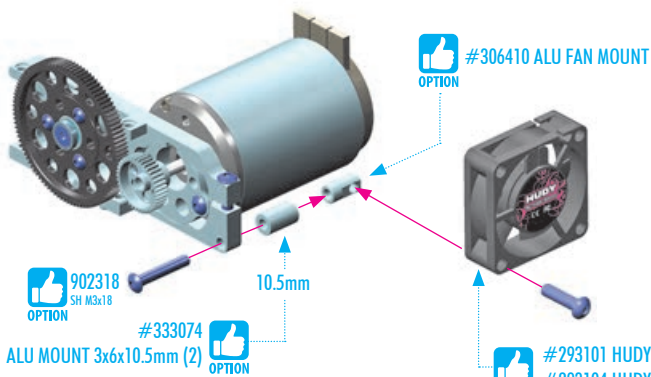
ELECTRONICS
INSTALLATION



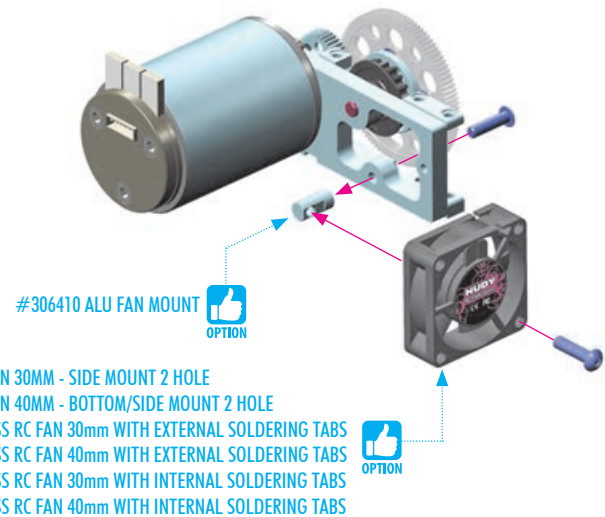
OPTION

FORWARD ALU FAN MOUNT ALTERNATIVE

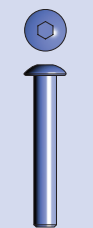
There are two options how to mount the fan mount depending of the style and size of the fan. Either in front or behind the motor. If you are using HUDY fan, we recommend to use FORWARD mount as it keeps the weight of the car as much in front as possible.



REARWARD ALU FAN MOUNT ALTERNATIVE



2x 901305
SB M3x5



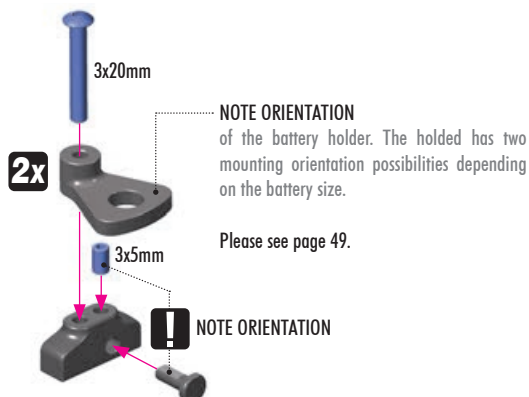
2x 902320
SH M3x20



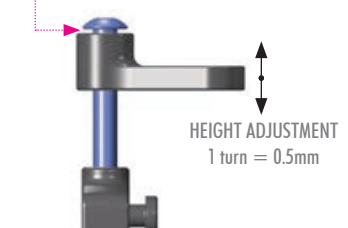
VIDEO TECH TIP



BATTERY MOUNTING
SYSTEM



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



7. FINAL ASSEMBLY

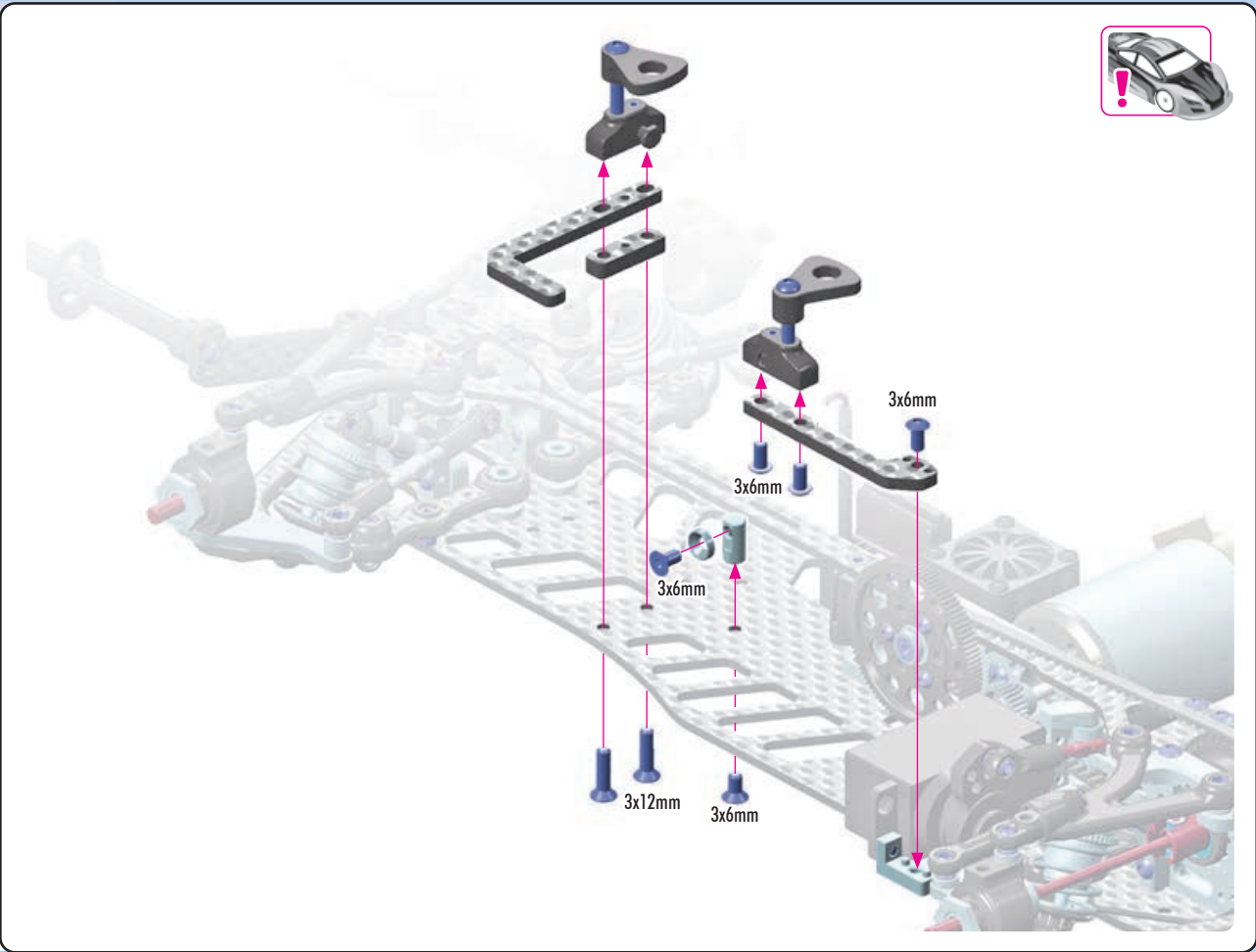
- 3x 902306 SH M3x6
- 2x 903306 SFH M3x6
- 2x 903312 SFH M3x12



VIDEO TECH TIP



WEIGHT BALANCE

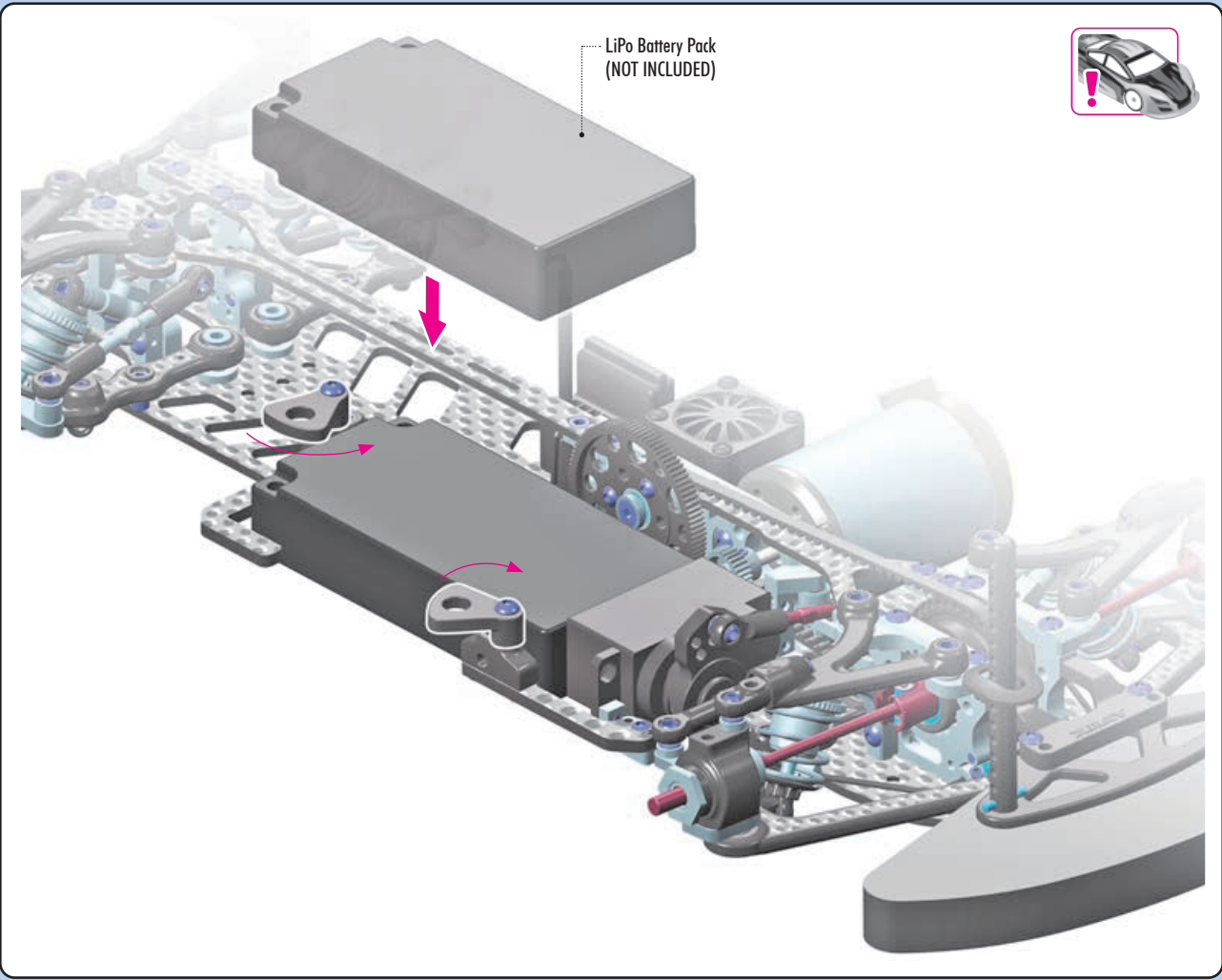




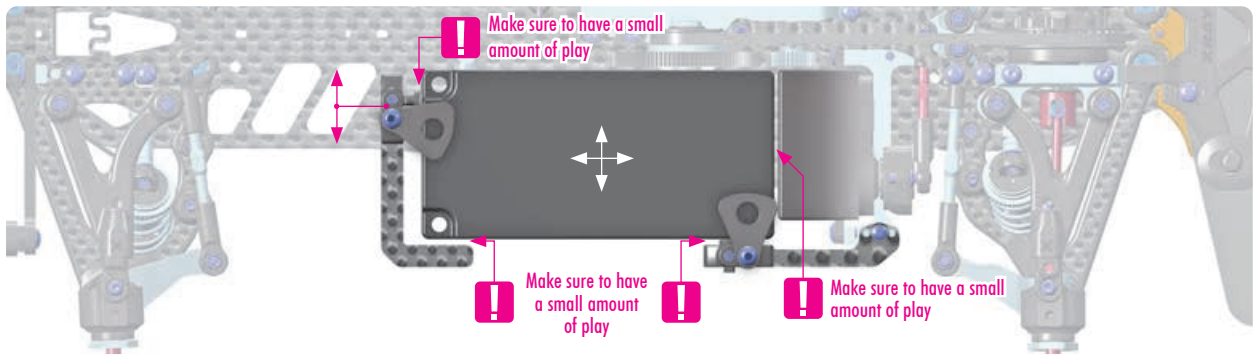
VIDEO TECH TIP



BATTERY MOUNTING SYSTEM



7. FINAL ASSEMBLY



BATTERY BACKSTOP

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.



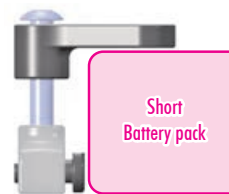
Due to different battery sizes used on carpet and asphalt, there are multiple battery mounting possibilities.



Standard Height
Battery pack



LCG
Battery pack



Short
Battery pack



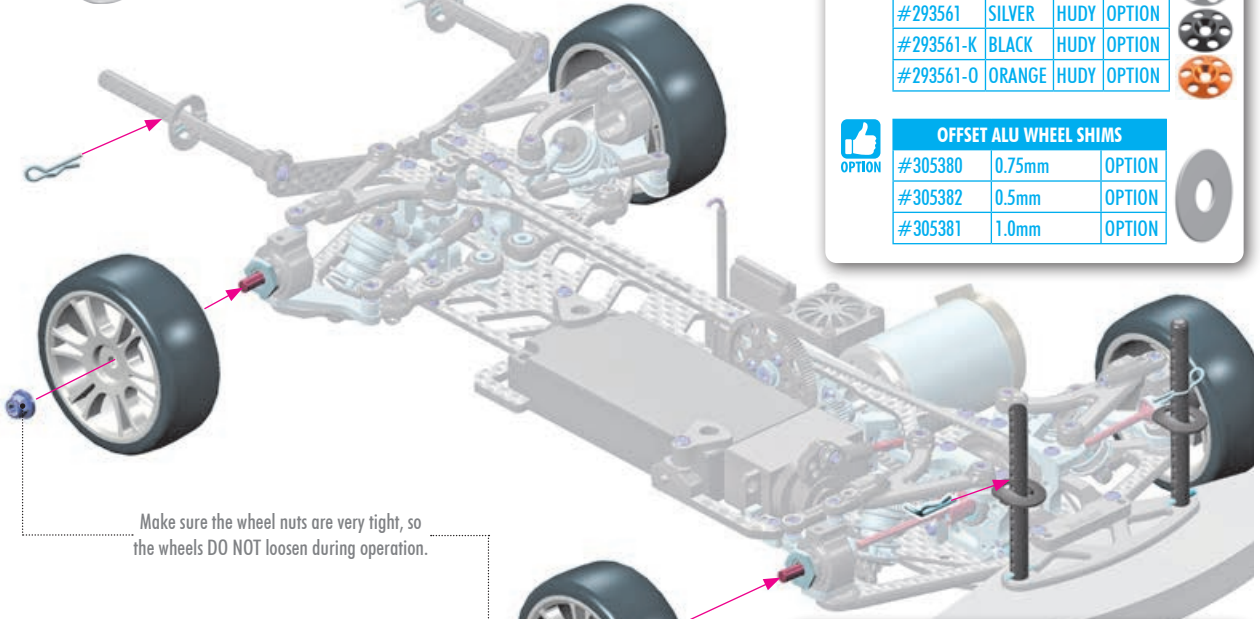
Long
Battery pack

Backstop orientation

Backstop orientation



4x 960240
N M4



Make sure the wheel nuts are very tight, so the wheels DO NOT loosen during operation.



ALU REAR WING SHIM

#	COLOR	TYPE	OPTION
#353561	SILVER	XRAY	OPTION
#293561	SILVER	HUDY	OPTION
#293561-K	BLACK	HUDY	OPTION
#293561-O	ORANGE	HUDY	OPTION



OFFSET ALU WHEEL SHIMS

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



NUT M4 WITH SERRATED FLANGE

#	COLOR	STATUS
#960240	SILVER	INCLUDED
#960241-K	ALU BLACK	OPTION
#960241-O	ALU ORANGE	OPTION



#803041

HUDY 1/10 PRE-CUT SLICK TIRES RIGHT & LEFT (2+2)



VIDEO TECH TIP



TRACK WIDTH
(OFFSET)



DOWNSTOP & RIDE
HEIGHT



BODY STOP SYSTEM

The X4F 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

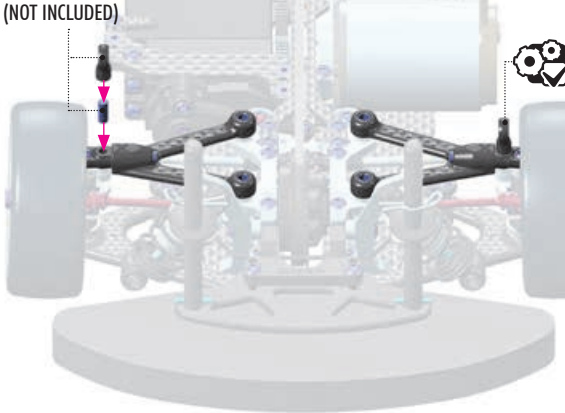
(#901308 SB M3x8mm / #303457 Ball Joint)



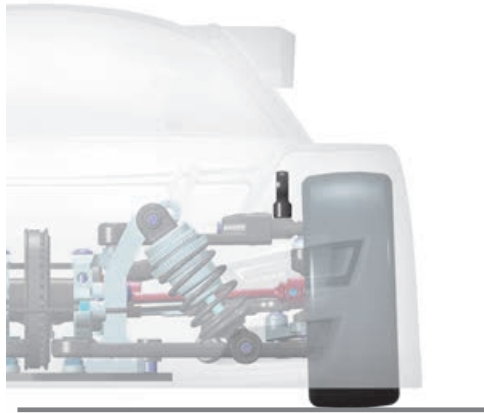
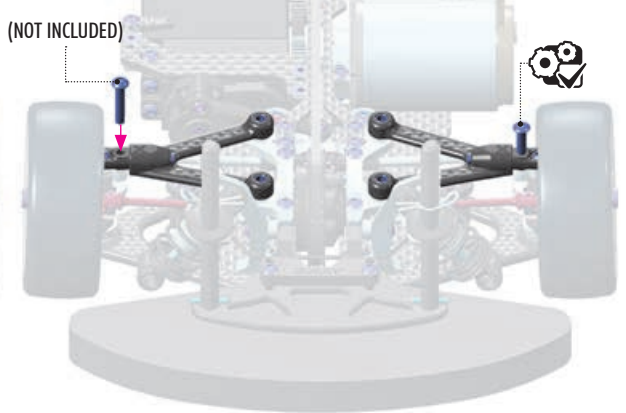
BODY STOP ALTERNATIVE with screw

(#902316 SH M3x16mm)

(NOT INCLUDED)



(NOT INCLUDED)



VIDEO TECH TIP



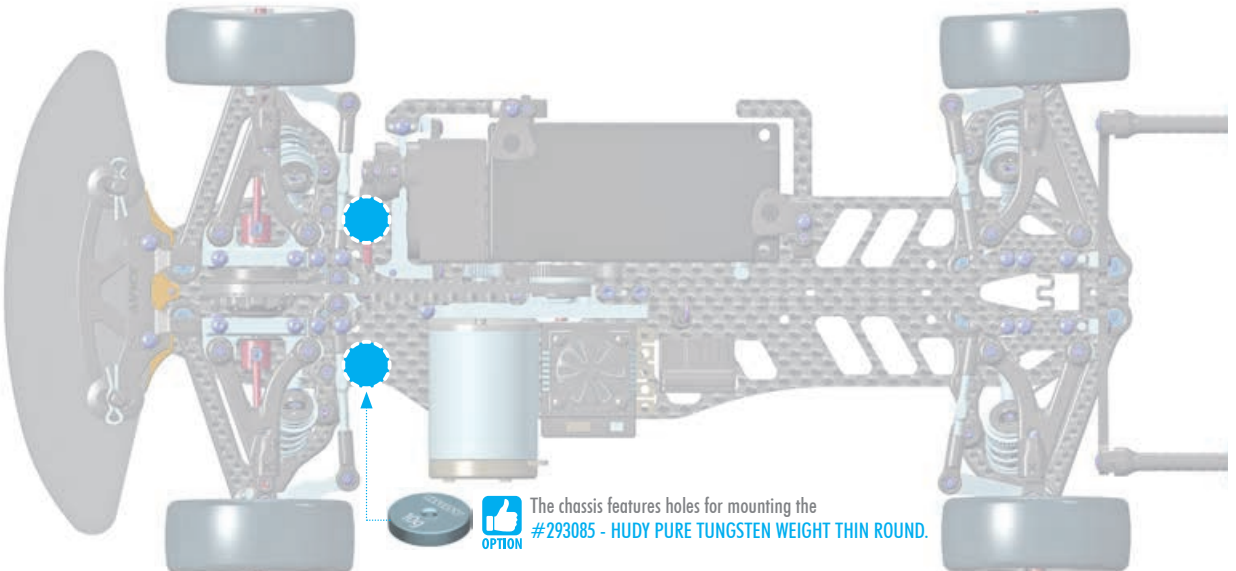
REAR BODY POST
MOUNTING



VIDEO TECH TIP



CHASSIS TWEAK



The chassis features holes for mounting the
#293085 - HUDY PURE TUNGSTEN WEIGHT THIN ROUND.



#326181
STAINLESS STEEL
BATTERY WEIGHT 35g



#293083
HUDY PURE TUNGSTEN
WEIGHT 15g



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

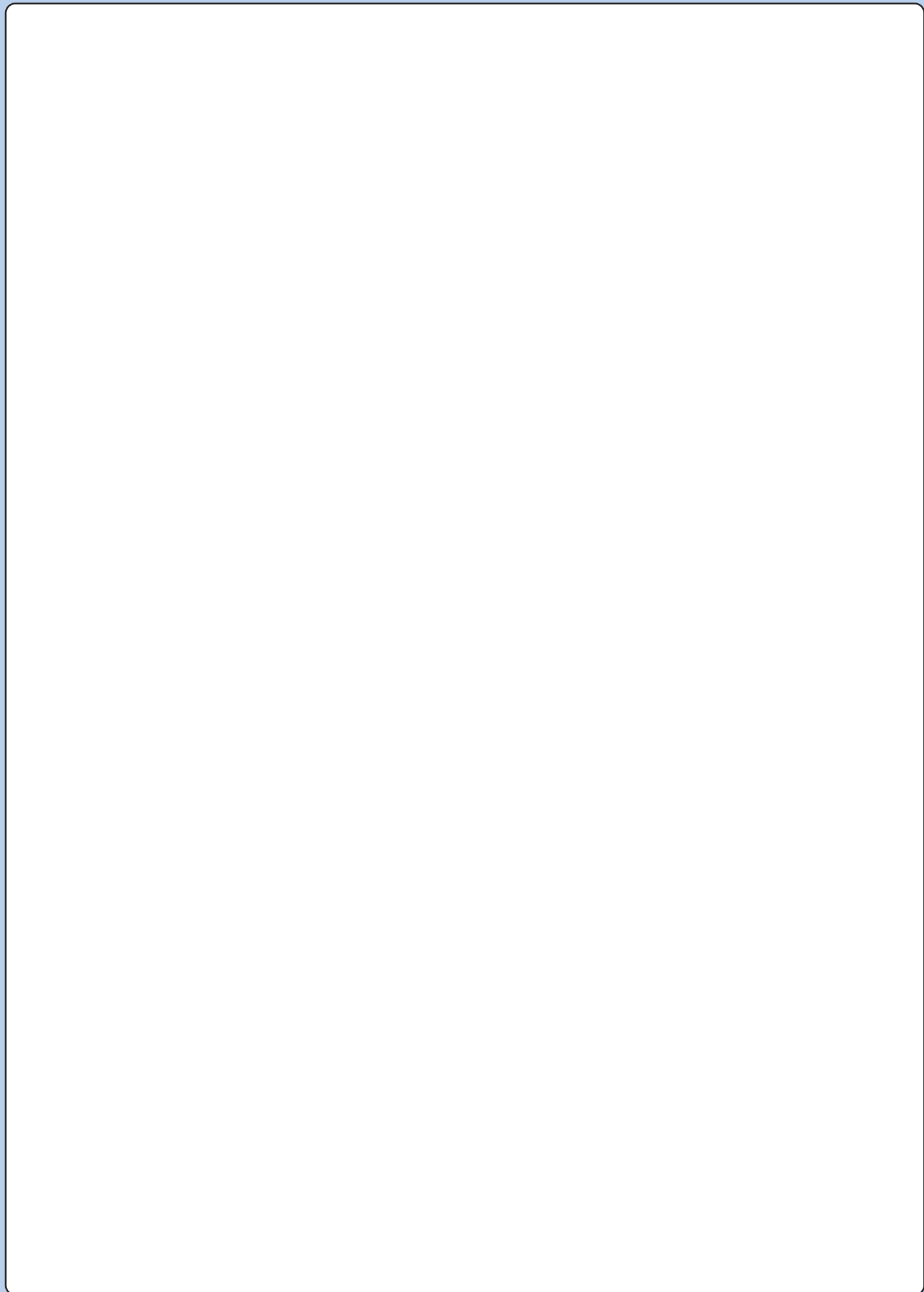


#293081
HUDY PURE TUNGSTEN
WEIGHT 5g



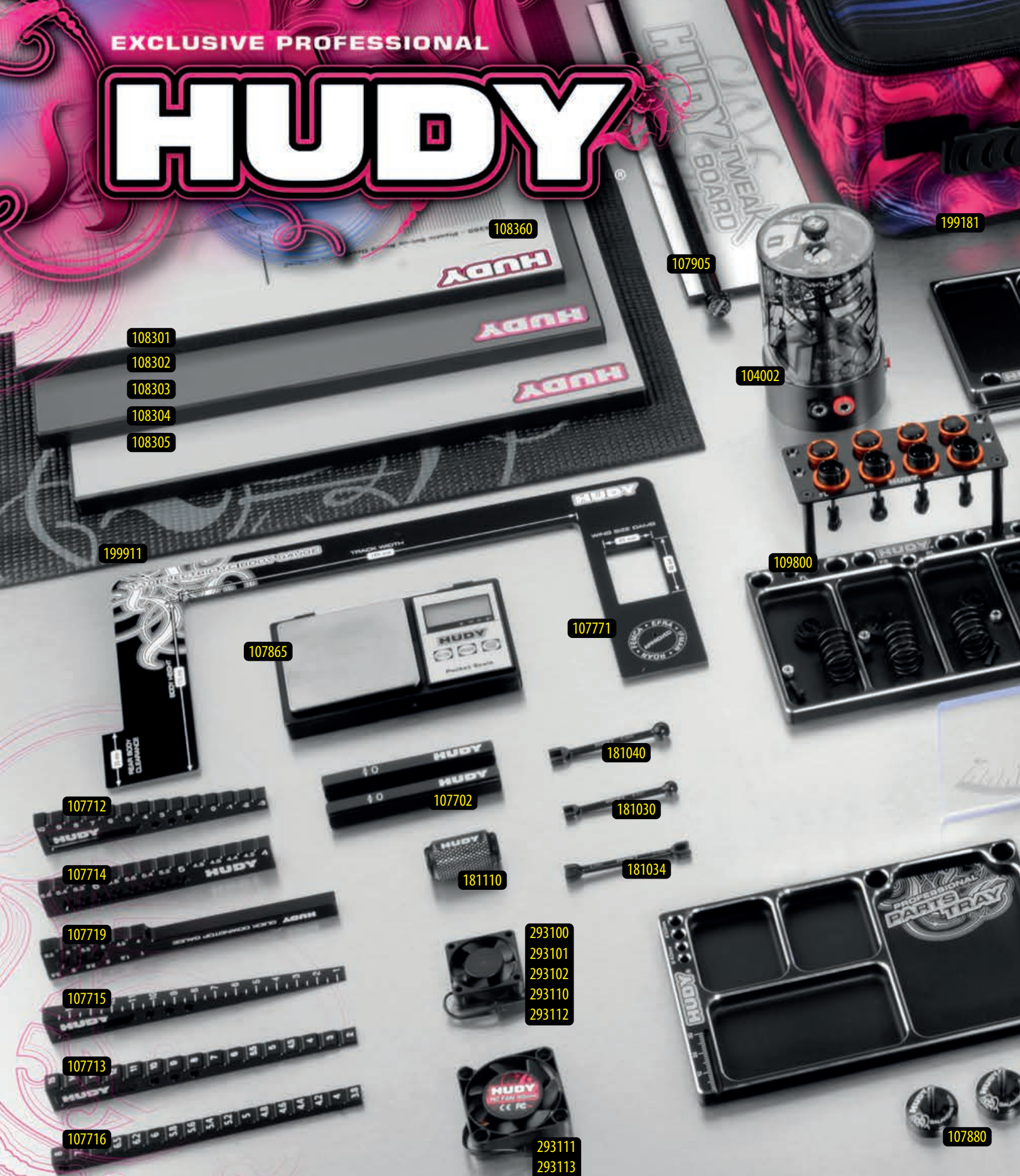
#293082
HUDY PURE TUNGSTEN
WEIGHT 10g





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 CARBON 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 PARTS TRAY 160x100MM
 108192 HUDY ALU PARTS TRAY NARROW 215x50MM
 108193 HUDY ALU PARTS TRAY LARGE 215x100MM
 108301 FLAT SET-UP BOARD 1/10 & 1/12 - LIGHTWEIGHT - GREY
 108302 FLAT SET-UP BOARD 1/10 & 1/12 - LIGHTWEIGHT - SILVER GREY

108303 FLAT SET-UP BOARD 1/10 & 1/12 - LIGHTWEIGHT - BLACK
 108304 FLAT SET-UP BOARD 1/10 & 1/12 - LIGHTWEIGHT - WHITE
 108305 FLAT SET-UP BOARD 1/10 & 1/12 - LIGHTWEIGHT - RED
 108360 PLASTIC SET-UP BOARD DE
 109301 HUDY SET-UP STATION FOR
 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
 109860 HUDY ALU TRAY FOR SET-UP
 109880 HUDY ALU TRAY FOR ACCESSORIES
 111545 LIMITED EDITION - ALLEN
 112045 LIMITED EDITION - ALLEN
 113045 LIMITED EDITION - ALLEN



& 1/12 - LIGHTWEIGHT - DARK GREY
 & 1/12 - LIGHTWEIGHT - TITAN
 & 1/12 - LIGHTWEIGHT - BLACK
 CAL 282X386MM - 1/10 TC
 R 1/10 TOURING CARS
 G SET-UP SYSTEM (4)
 TO RUBBER TIRES (4)
 ROAD DIFF & SHOCKS
 OFF-ROAD DIFF ASSEMBLY
 UP SYSTEM
 SSORIES & PIT LED
 WRENCH # 1.5MM
 WRENCH # 2.0MM
 WRENCH # 3.0MM

132045 LIMITED EDITION - ALLEN WRENCH + BALL REPL. TIP # 2.0MM
 175535 LIMITED EDITION - SOCKET DRIVER # 5.5MM
 177035 LIMITED EDITION - SOCKET DRIVER # 7.0MM
 181030 HUDY SPRING STEEL TURNBUCKLE WRENCH 3 MM
 181034 TURNBUCKLE WRENCH 3 & 4MM - HUDY SPRING STEEL™
 181040 TURNBUCKLE WRENCH 4MM - HUDY SPRING STEEL™
 181110 HUDY BALL JOINT WRENCH
 183011 HUDY PROFESSIONAL MULTI TOOL
 188981 HUDY POCKET HOBBY KNIFE
 188990 HUDY PROFESSIONAL BODY SCISSORS
 199060 HUDY ALU TOOL STAND
 199181 HUDY CAR BAG - 1/10 ON-ROAD - TC - PAN CAR - CUSTOM NAME
 199270 HUDY LIPO SAFETY BAG - CUSTOM NAME
 199911 HUDY PIT MAT ROLL 750x1200MM WITH PRINTING

293100 HUDY ALU RC FAN 30MM - BOTTOM MOUNT 2 HOLE
 293101 HUDY ALU RC FAN 30MM - SIDE MOUNT 2 HOLE
 293102 HUDY ALU RC FAN 30MM - TOP/SIDE MOUNT 4 HOLE
 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
 298100 HUDY TIN ROUND BOX 80x30mm

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

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EXCLUSIVE PROFESSIONAL

HUDY

HUDY

199295-H

199290-H

106261

106200

803041

107861

107840

107846

107761

105590

293080

106290

293012

293011

293083

293082

293081

293084

294017~294035

294127~294160

- | | | | |
|--------|-------------------------------------------------------------------|--------|-----------------------------------------------------------------|
| 107761 | HUDY ADJUSTABLE CAMBER GAUGE 80MM | 105590 | HUDY WHEEL BALANCING PUTTY |
| 107772 | HUDY PROFESSIONAL 1/10 TC WHEEL ARCH MARKER + WHEEL ADAPTER & NUT | 181090 | HUDY SPECIAL TOOL FOR TURNBUCKLES & NUTS |
| 106210 | HUDY GRAPHITE GREASE | 181091 | HUDY TURNBUCKLE WRENCH 3 & 4MM - V2 |
| 106230 | HUDY BEARING OIL | 803041 | HUDY 1/10 PRE-CUT SLICK TIRES RIGHT & LEFT (2+2) |
| 106200 | HUDY MAGIC CLEANING GUM | 293011 | HUDY STAINLESS STEEL BATTERY WEIGHT 35G |
| 106261 | HUDY TIRE ADDITIVE - TIRE GRIPPER RED - 50ML | 293012 | HUDY STAINLESS STEEL BATTERY WEIGHT FOR NARROW BATTERY PACK 35G |
| 106350 | HUDY PREMIUM SILICONE OIL 500 CST - 50ML | 293080 | LEAD WEIGHTS 4x5G & 4x10G WITH 3M GLUE |
| 107861 | HUDY PROFESSIONAL RACING STOPWATCH XL DISPLAY | 293081 | HUDY PURE TUNGSTEN WEIGHT 5G |
| 106290 | HUDY PROFESSIONAL SOLDER 3M LENGTH | 293082 | HUDY PURE TUNGSTEN WEIGHT 10G |
| 107840 | CLEANING BRUSH LARGE - SOFT | 293083 | HUDY PURE TUNGSTEN WEIGHT 15G |
| 107846 | CLEANING BRUSH SMALL - SOFT | 293084 | PRECISION BALANCING CHASSIS WEIGHT 10G (4) |
| 105520 | WHEEL ADAPTER FOR 1/10 ON-ROAD & 1/10 OFF-ROAD - 12MM | 293311 | CARBON 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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