XRAY

1/10 LUXURY ELECTRIC TOURING CAR 4WD

T4

2018

INSTRUCTION MANUAL

MADE IN EUROPE

WORLD VICE-CHAMPION 2X

EUROPEAN CHAMPION Modified

5X EUROPEAN CHAMPION Stock

2X ETS EURO TOURING SERIES SEASON WINNER MODIFIED

6X ETS EURO TOURING SERIES SEASON WINNER STOCK

49X USA NATIONAL CHAMPION

BEFORE YOU START

The T4 is a high-competition, high-quality, 1/10-scale touring 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 T4, 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.

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 The T4 is not what you wanted or expected, do not continue any further. Your hobby dealer cannot accept your T4 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.

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

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Irving, TX 75062
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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.

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 excess the monetary value of this product.

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

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

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.

SYMBOLS USED

Part bags used	Assemble in the specified order	Assemble left and right sides the same way	Pay attention here	Assemble as many times as specified (here twice)	Apply thread lock	Apply CA glue	Apply oil
Scale	Apply grease	Optional parts	Ensure smooth non-binding movement	Tighten screw gently	Completed assembly	Detail view	Follow Set-up Book

TOOLS REQUIRED

HUDY TOOLS:

Allen: 1.5mm | Allen: 2.0mm | Allen: 2.5mm | Allen: 3.0mm | Socket: 5.5mm | Socket: 7.0mm | Arm Reamer 3.0mm

Turnbuckle Wrench 4mm (HUDY #181040)

Scissors (HUDY #188990)

Combination Pliers (HUDY #189020)

Side Cutters (HUDY #189010)

Pocket Hobby Knife (HUDY #188981)

RC Shock-Plier Uni Tool (HUDY #183011)

Reamer (HUDY #107600) or (HUDY #107601)

ITEMS INCLUDED

Premium Silicone Oil 400cSt (HUDY #106340)

Premium Silicone Oil 3000cSt (HUDY #106430)

Graphite Grease (HUDY #106210)

NOT INCLUDED

To ensure that you always have access to the most up-to-date version of the XRAY Set-up Book, XRAY will now be offering only the digital online version on our website www.teamxray.com. By offering this online version instead of including a hardcopy printed version in kits, you will always be assured of having the most current updated version.

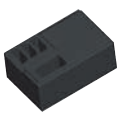
SAMPLE OF OPTIONAL PARTS	
#30XXXX	OPTION 1
#30XXXX	OPTION 2
#30XXXX	OPTION 3

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

EQUIPMENT REQUIRED

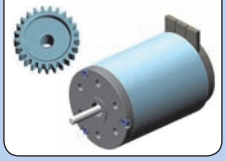
Transmitter

Receiver



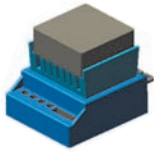
Steering Servo

Electric Motor & Pinion Gear and Setscrew



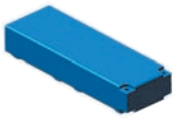
Bearing Oil (HUDY #106230)

Speed Controller



190mm Bodyshell

LiPo Battery



Lexan™ Paint

Battery Charger

Fibre Tape (HUDY #107870) Double-sided Tape (HUDY #107875)

Wheels & Tires & Inserts

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:

Style A - indicates parts that are included in the bag marked for the section.

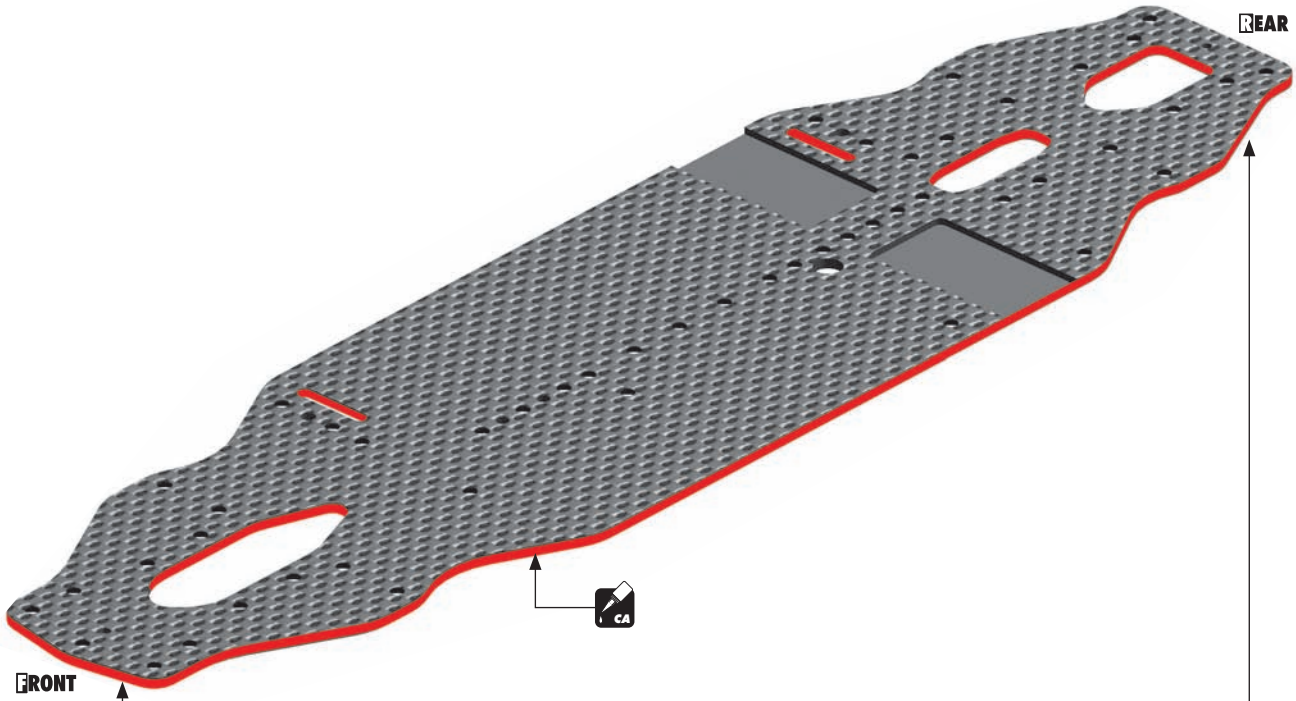
STYLE B - indicates parts that are included in the box.

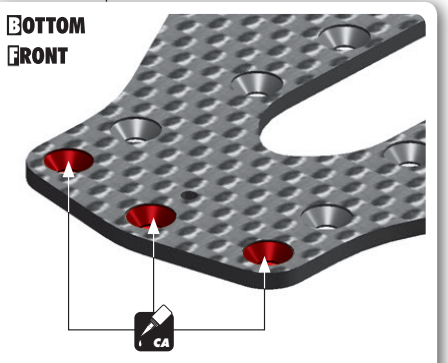
STYLE C - indicates parts that are already assembled from previous steps.

CHASSIS PREPARATION

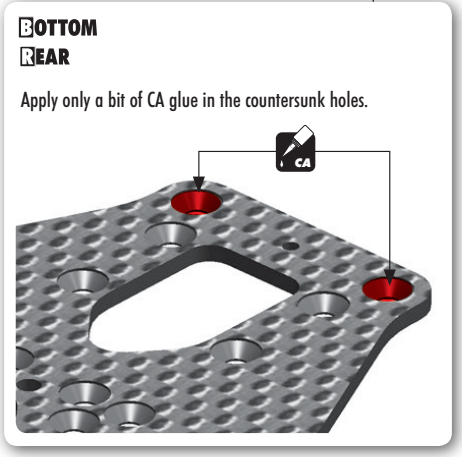
To protect and seal edges of graphite parts, sand edges smooth and then apply CA glue.

Do this for: chassis edges, countersunk holes, and shock towers.





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



1. GEAR DIFFERENTIAL & FRONT SOLID AXLE

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

OPTION #309002
SET OF CERAMIC BALL-BEARINGS (14)

OPTION #304971
HUDY SPRING STEEL™ OUTDRIVES

OPTION #305136
ALU SOLID DRIVESHAFT ADAPTERS

OPTION #305137
STEEL SOLID AXLE DRIVESHAFT ADAPTERS
HUDY SPRING STEEL™

BAG

01.1

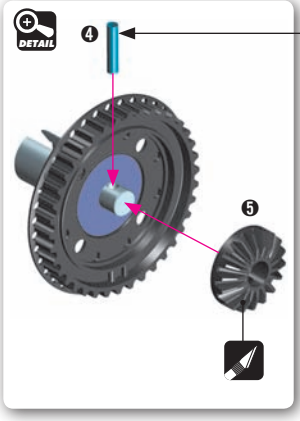
01.2

30 4900	XRAY GEAR DIFFERENTIAL - SET	90 2310	HEX SCREW SH M3x10 (10)
30 4910	COMPOSITE GEAR DIFF. CASE & COVER	90 3256	HEX SCREW SFH M2.5x6 (10)
30 4930	COMPOSITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)	94 1015	HIGH-SPEED BALL-BEARING 10x15x4 RUBBER SEALED (2)
30 4970	ALU GEAR DIFF OUTDRIVE ADAPTER - 7075 T6 (2)	96 4031	WASHER S 3.5x10x0.2 (10)
30 4980	COMPOSITE GEAR DIFF CROSS PIN	96 4050	WASHER S 5x15x0.3 (10)
30 4990	DIFF GASKET (4)	97 1240	SILICONE O-RING 24x0.7 (10)
30 5105	XRAY MULTI-DIFF T3/T4 LiPo (OPTION)	97 2050	SILICONE O-RING 5x2 (10)
30 5135	COMPOSITE SOLID AXLE DRIVESHAFT ADAPTERS (2)	98 1210	PIN 2x10 (10)
30 5188	COMPOSITE SOLID AXLE 38T - SET		

964050
S 5x15x0.3

972050
O 5x2

981210
P 2x10



OPTION #304971
HUDY SPRING STEEL™ OUTDRIVES

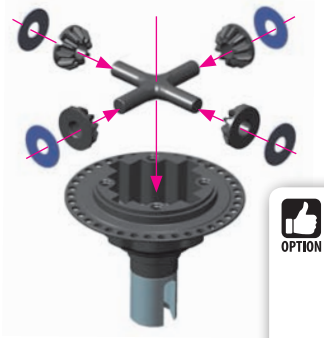
OPTION #304932
GRAPHITE GEAR DIFF BEVEL & SATELLITE GEARS (2+4)

964050
S 5x15x0.3

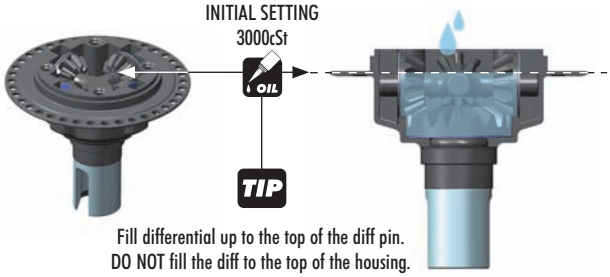
972050
O 5x2

981210
P 2x10


964031
S 3.5x10x0.2



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



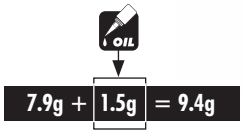
Fill differential up to the top of the diff pin.
DO NOT fill the diff to the top of the housing.

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

7.90g

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

9.40g



❶ Put the diff (without oil) on the scale and check the weight (approximately 7.90g)

❷ Slowly pour oil into the diff and watch the weight. Add 1.5g of oil into the diff. The approximate weight of the diff including oil is 9.40g.

TIP TIPS FOR DIFFERENTIALS TIP

LOW TRACTION

1000cSt (HUDY #106410)
2000cSt (HUDY #106420)

MEDIUM TRACTION

2000cSt (HUDY #106420)
3000cSt (HUDY #106430)
4000cSt (HUDY #106440)
5000cSt (HUDY #106450)

HIGH TRACTION

5000cSt (HUDY #106450)
6000cSt (HUDY #106460)
7000cSt (HUDY #106470)
8000cSt (HUDY #106480)
9000cSt (HUDY #106490)
10000cSt (HUDY #106510)

SUPER-HIGH TRACTION

10000cSt (HUDY #106510)
15000cSt (HUDY #106515)
20000cSt (HUDY #106520)

NOTE

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

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

TIP TIPS FOR FRONT DIFFERENTIAL

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

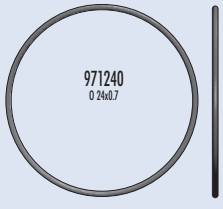
USE THESE OILS FOR FRONT DIFFERENTIAL

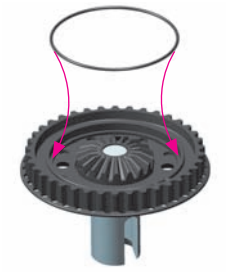
500,000 cSt (HUDY #106650)
1,000,000 cSt (HUDY #106692)
2,000,000 cSt (HUDY #106694)

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

IMPORTANT!

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

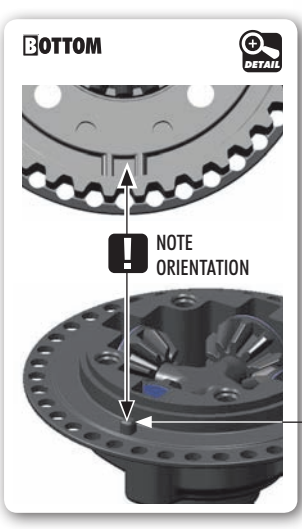


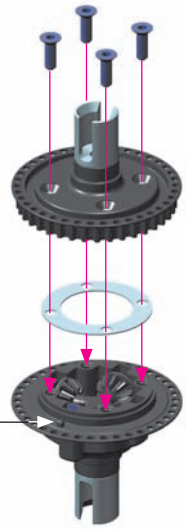


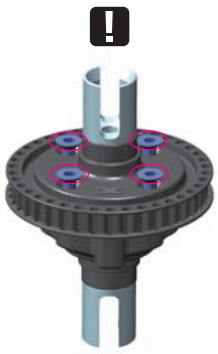
After disassembling the gear diff the large O-ring may have an increased size and may be more difficult to re-install. We recommend either inserting the old O-ring carefully in the diff cover, or replacing the old O-ring with a new O-ring if the old one cannot be made to fit properly.

1. GEAR DIFFERENTIAL & FRONT SOLID AXLE

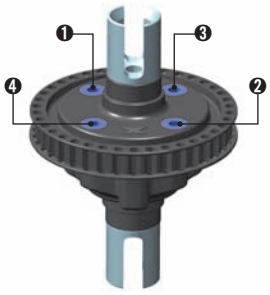
903256
SFH M2.5x6



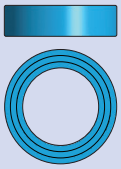




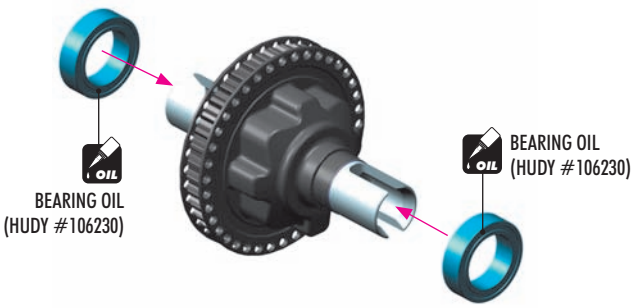
Tighten the screws equally but do NOT tighten them completely.



Finish tightening in this order.

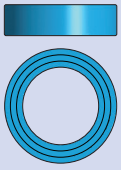


941015
BB 10x15x4

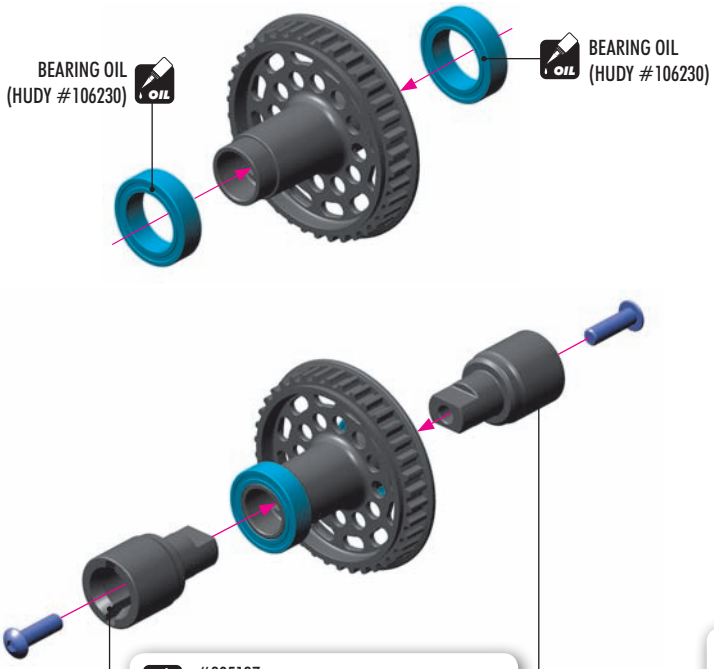


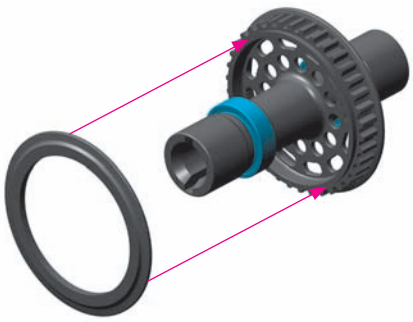
COMPOSITE FRONT SOLID AXLE

902310
SH M3x10



941015
BB 10x15x4

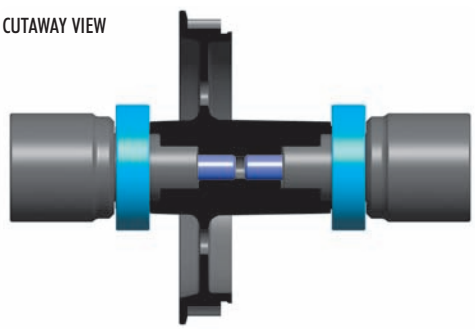




OPTION #305137
STEEL SOLID AXLE DRIVESHAFT ADAPTERS
HUDY SPRING STEEL™

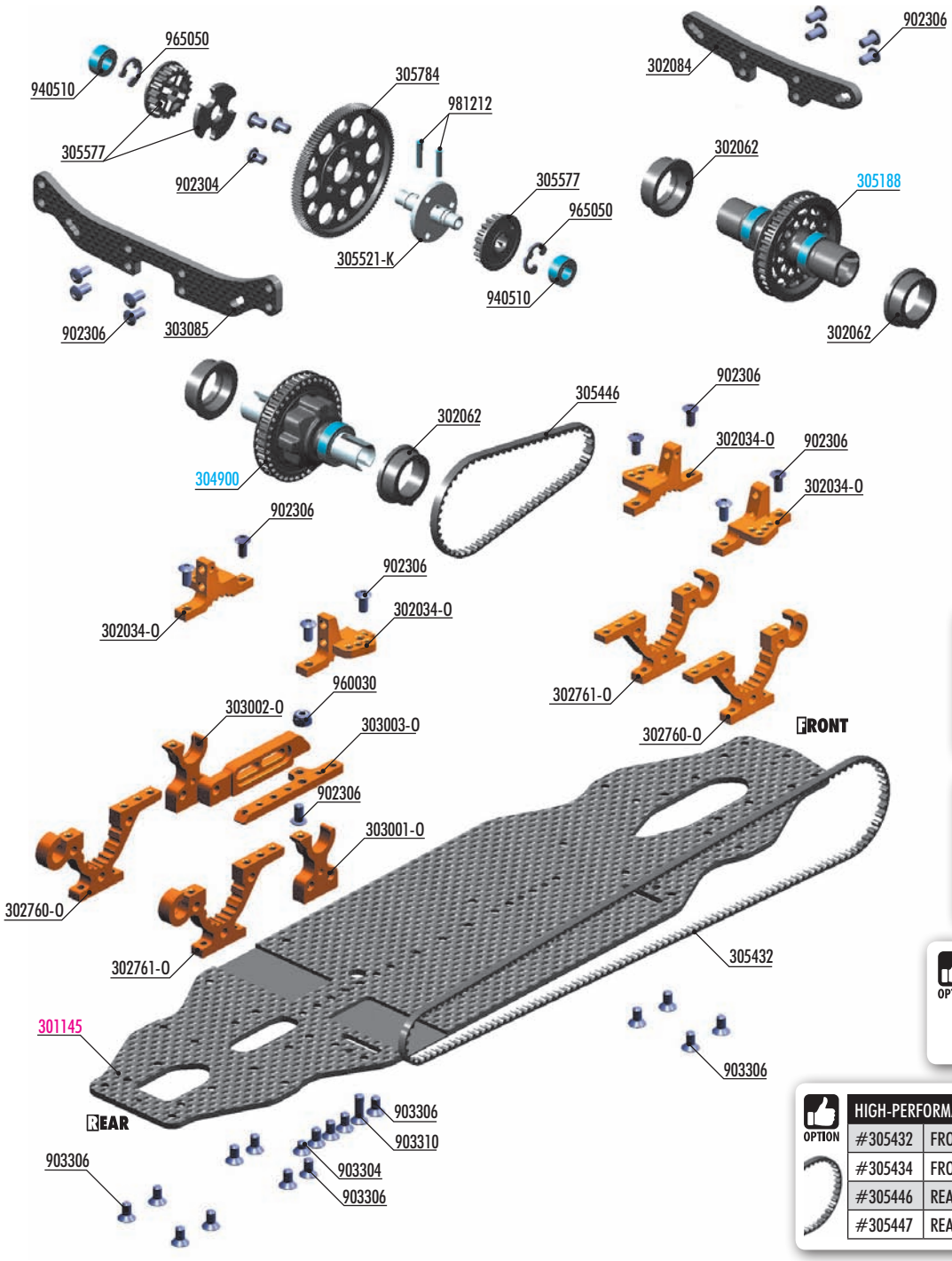
OPTION #305136
ALU SOLID DRIVESHAFT ADAPTERS

CUTAWAY VIEW



FRONT & REAR AXLES

2. CENTRAL TRANSMISSION



OPTION

OFFSET 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	INCLUDED

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

OPTION #309002
SET OF CERAMIC BALL-BEARINGS (14)

OPTION #303004
T4'18 BRASS MOTOR MOUNT PLATE

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

OPTION

HIGH-PERFORMANCE KEVLAR® DRIVE BELT			
#305432	FRONT 3 x 513 MM	STANDARD	INCLUDED
#305434	FRONT 3 x 513 MM	LOW-FRICTION	OPTION
#305446	REAR 3 x 189 MM	STANDARD	INCLUDED
#305447	REAR 3 x 189 MM	LOW-FRICTION	OPTION

OPTION #303071
BELT TENSIONER SET

OPTION #301147
T4'18 ALU FLEX CHASSIS 2.0MM

OPTION #301146
T4'18 ALU CHASSIS 2.0MM

BAG 02

30 2034-O	T4 ALU UPPER CLAMP WITH 5 ADJ. ROLL-CENTERS (L+R) - ORANGE
30 2062	T4 COMPOSITE ADJUSTMENT BALL-BEARING HUB (4)
30 2084	ULP SHOCK TOWER FRONT 3.0MM GRAPHITE
30 2760-O	T4 ALU LOWER ADJUSTMENT BULKHEAD - FRONT R / REAR L - ORANGE
30 2761-O	T4 ALU LOWER ADJUSTMENT BULKHEAD - FRONT L / REAR R - ORANGE
30 3001-O	T4'18 ALU LAYSHAFT BULKHEAD RIGHT - ORANGE
30 3002-O	T4'18 ALU MOTOR MOUNT - ORANGE
30 3003-O	T4'18 ALU MOTOR MOUNT PLATE - ORANGE
30 3085	ULP SHOCK TOWER REAR 3.0MM GRAPHITE
30 5432	HIGH-PERFORMANCE KEVLAR® DRIVE BELT FRONT 3 x 513 MM
30 5446	HIGH-PERFORMANCE KEVLAR® DRIVE BELT REAR 3 x 189 MM
30 5521-K	ALU SOLID LAYSHAFT - BLACK
30 5577	COMPOSITE FIXED PULLEY 20T (2)
30 5784	SPUR GEAR 84T / 48
90 2304	HEX SCREW SH M3x4 - STAINLESS (10)
90 2306	HEX SCREW SH M3x6 (10)
90 3304	HEX SCREW SFH M3x4 (10)
90 3306	HEX SCREW SFH M3x6 (10)
90 3310	HEX SCREW SFH M3x10 (10)
94 0510	HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2)
96 0030	NUT M3 (10)
96 5050	E-CLIP 5 (10)
98 1212	PIN 2x12 (10)
30 4900	XRAY GEAR DIFFERENTIAL - SET
30 5188	COMPOSITE SOLID AXLE 38T - SET
30 1145	T4'18 CHASSIS 2.2MM GRAPHITE

2. CENTRAL TRANSMISSION

902306
SH M3x6

903304
SFH M3x4

903306
SFH M3x6

903310
SFH M3x10

960030
N M3

NOTE ORIENTATION

DETAIL

Do not tighten fully yet, the nut will be tightened after the motor mount is mounted on the chassis.

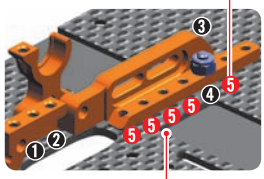
NOTE ORIENTATION

DETAIL

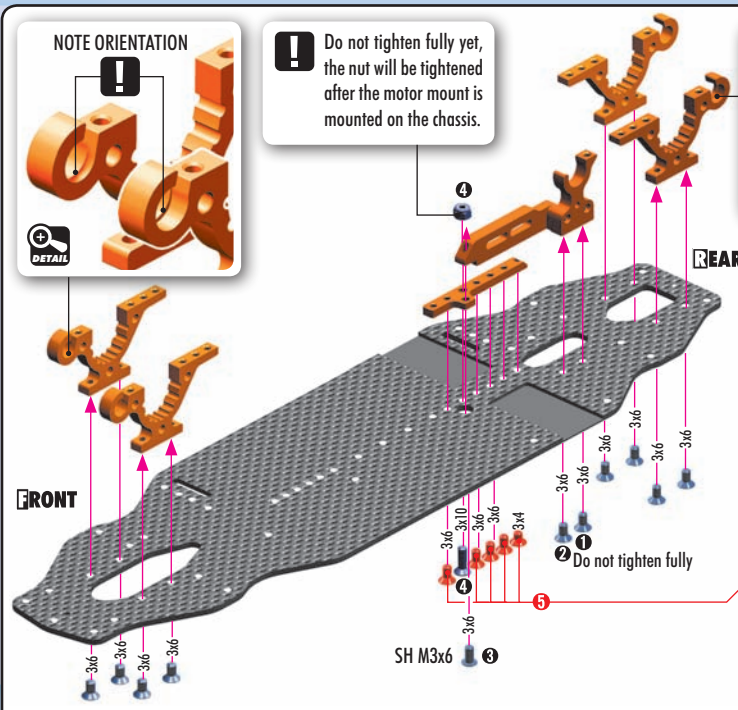
IMPORTANT!

Tighten screws in order indicated. M3 nut must always be tightened fully. When tightening the nut, use pliers.

The front screw improves steering response and in-corner steering. Recommended for medium-high traction tracks.



The back screws generates more traction and makes the car more stable in the chicanes. Recommended for low-medium traction tracks.



OPTION

#303004
T4'18 BRASS MOTOR MOUNT PLATE

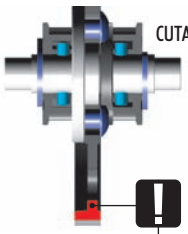
902304
SH M3x4

965050
C5

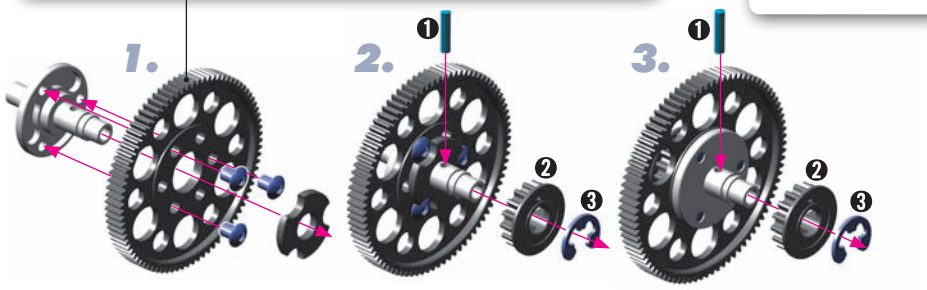
981212
P 2x12

SET-UP BOOK
GEARING ADJUSTMENT

CUTAWAY VIEW



NOTE ORIENTATION
only when using XRAY OFFSET spur gears.



OPTION

OFFSET SPUR GEARS 48P		
#305772	72T	OPTION
#305776	76T	OPTION
#305778	78T	OPTION
#305779	79T	OPTION
#305781	81T	OPTION
#305784	84T	INCLUDED

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

940510
BB 5x10x4

NOTE ORIENTATION

Short belt Long belt

BEARING OIL
(HUDY #106230)

OIL

BEARING OIL
(HUDY #106230)

OIL

LONGER SHORTER

SHORTER LONGER

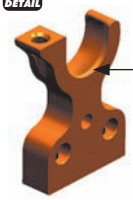
FRONT

REAR

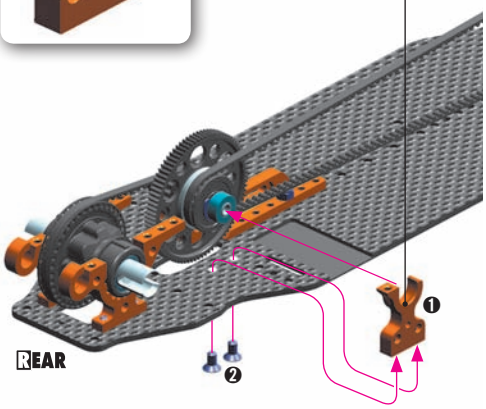
OPTION

#302063
ALU ADJUSTMENT BALL-BEARING HUB (2)

DETAIL



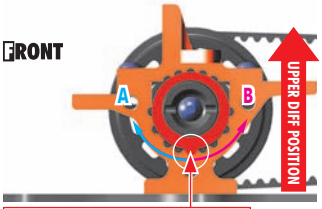
NOTE ORIENTATION



FRONT BELT TENSION ADJUSTMENT

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

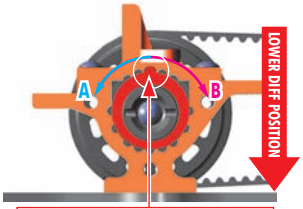
Recommended for **medium-high** traction tracks and technical tracks.



INITIAL POSITION FOR CARPET
Place tab in this BOTTOM NOTCH

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

Recommended for **low-traction** tracks.



INITIAL POSITION FOR ASPHALT
Place tab in this TOP NOTCH

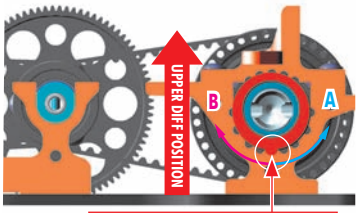
TO LOOSEN FRONT BELT: Rotate both front nylon hubs in arrow direction **A**

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

REAR BELT TENSION ADJUSTMENT

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

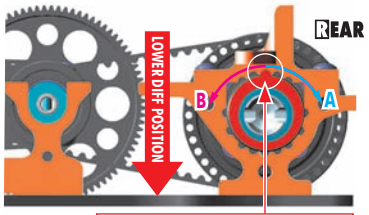
Recommended for **medium-high traction** tracks.



INITIAL POSITION FOR CARPET
Place tab in this BOTTOM NOTCH

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

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



INITIAL POSITION FOR ASPHALT
Place tab in this TOP NOTCH

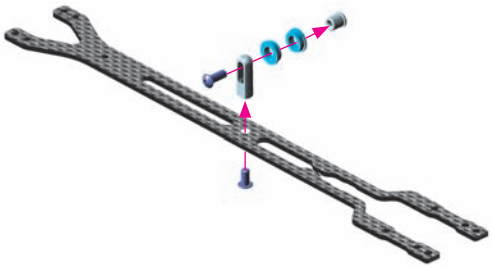
TO LOOSEN REAR BELT: Rotate both rear nylon hubs in arrow direction **A**

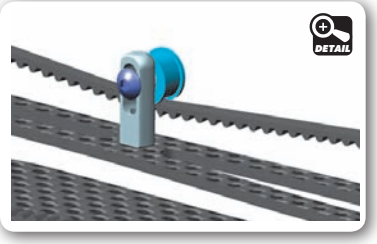
TO TIGHTEN REAR BELT: Rotate both rear nylon hubs in arrow direction **B**

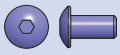
OPTION

#303071
BELT TENSIONER SET

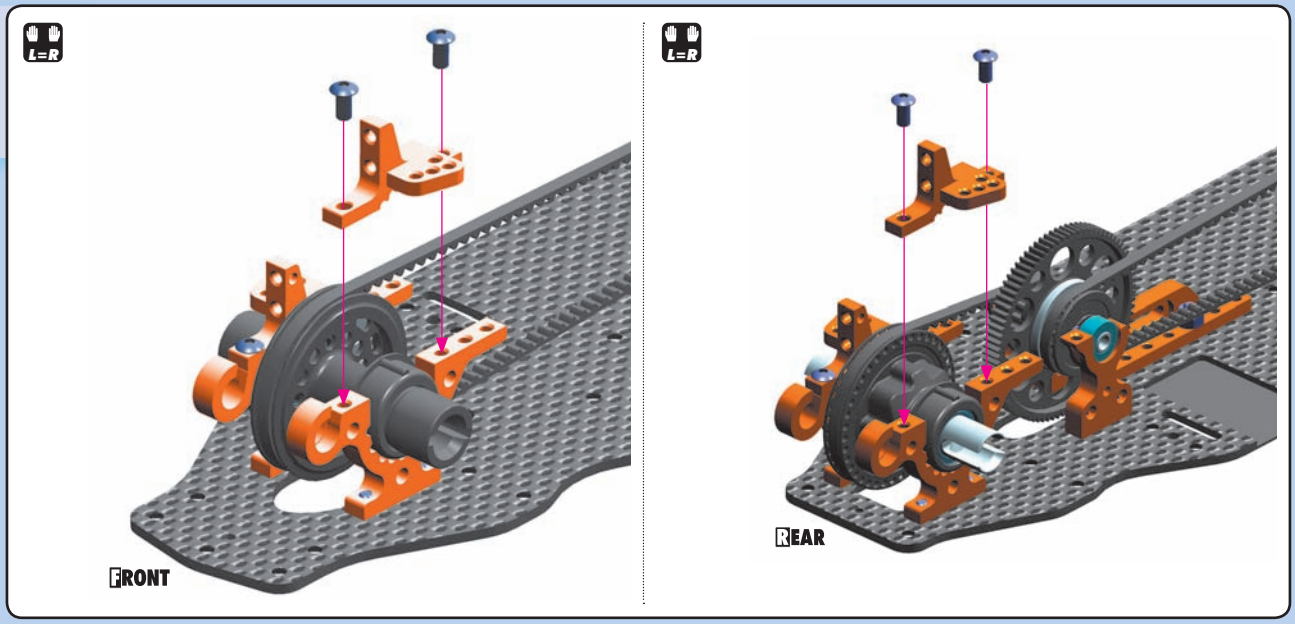
May be used when the front belt becomes worn and loose. Belt tensioner is NOT included in the kit and must be purchased separately.

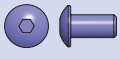




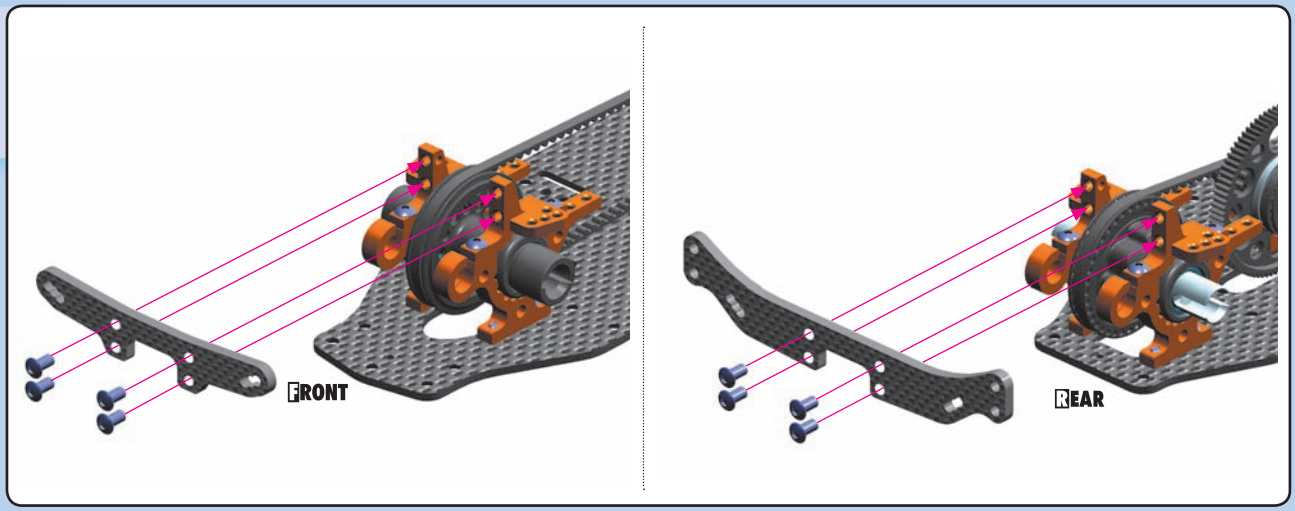


902306
SH M3x6





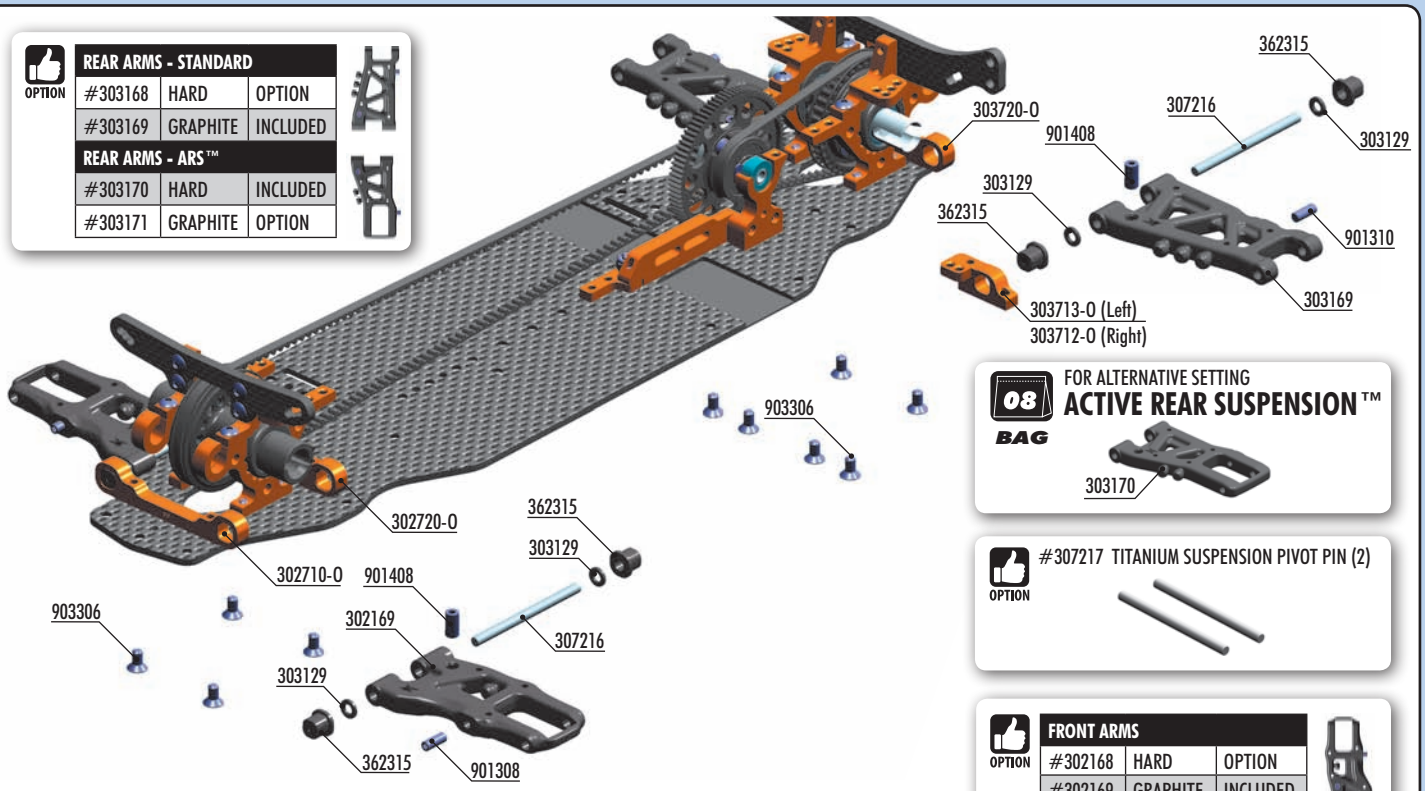
902306
SH M3x6



3. FRONT & REAR SUSPENSION

OPTION

REAR ARMS - STANDARD		
#303168	HARD	OPTION
#303169	GRAPHITE	INCLUDED
REAR ARMS - ARS™		
#303170	HARD	INCLUDED
#303171	GRAPHITE	OPTION



08 BAG

FOR ALTERNATIVE SETTING
ACTIVE REAR SUSPENSION™

303170

OPTION

#307217 TITANIUM SUSPENSION PIVOT PIN (2)

OPTION

FRONT ARMS		
#302168	HARD	OPTION
#302169	GRAPHITE	INCLUDED

OPTION

#302712-0 ALU FRONT 1-PIECE SUSPENSION HOLDER (FF-LOW)
#302722-0 ALU FRONT 1-PIECE SUSPENSION HOLDER (FR-LOW)

OPTION

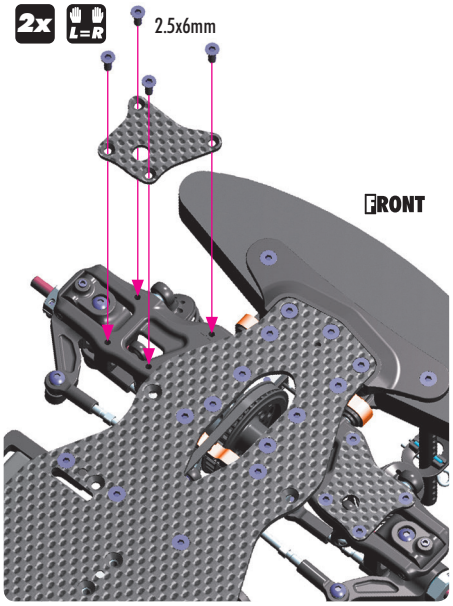
#302711 BRASS FRONT 1-PIECE SUSPENSION HOLDER - FRONT - FF
#302721 BRASS FRONT 1-PIECE SUSPENSION HOLDER - REAR - FR
#303714 BRASS 2-PIECE SUSPENSION HOLDER - RIGHT
#303715 BRASS 2-PIECE SUSPENSION HOLDER - LEFT
#303721 BRASS REAR 1-PIECE SUSPENSION HOLDER - REAR - RR

OPTION

For better stability and to make the car easier to drive, optional #302190 and #303190 graphite stiffeners may be used on the suspension arms. Using only 4 screws, each graphite stiffener can be installed or removed which will completely change the characteristics of the car. Stiffeners may be used independently at front and/or rear. **IMPORTANT!** Install/remove stiffeners equally on left & right sides.

#30 2190
GRAPHITE FRONT LOWER ARM PLATE 1.6MM (2)

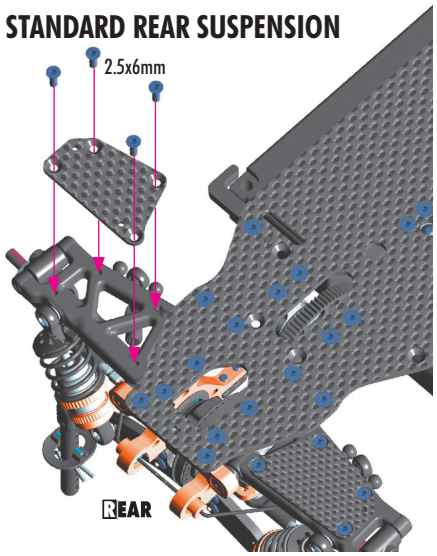
2x L=R



#30 3190
GRAPHITE REAR LOWER ARM PLATE 1.6MM (2)

2x L=R

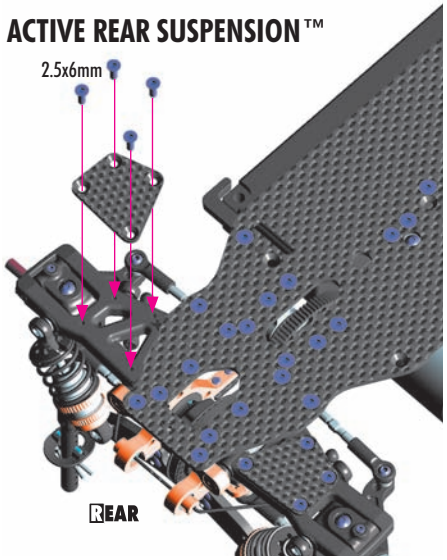
STANDARD REAR SUSPENSION



#30 3192
ARS GRAPHITE REAR LOWER ARM PLATE 1.6MM (2)

2x L=R

ACTIVE REAR SUSPENSION™



BAG 03

30 2169	FRONT SUSPENSION ARM - GRAPHITE - 1-HOLE	30 3711-0	ALU REAR LOWER 1-PIECE SUSPENSION HOLDER - FRONT - RF (OPTION)
30 2710-0	ALU FRONT LOWER 1-PIECE SUSPENSION HOLDER - FRONT - FF	30 3720-0	ALU REAR LOWER 1-PIECE SUSPENSION HOLDER - REAR - RR
30 2720-0	ALU FRONT LOWER 1-PIECE SUSPENSION HOLDER - REAR - FR	30 7216	SUSPENSION PIVOT PIN (2)
30 3129	COMPOSITE SET OF WHEELBASE SHIMS (3x1MM; 1x2MM) (2)	36 2315	ECCENTRIC BUSHING SET (2)
30 3169	REAR SUSPENSION ARM - GRAPHITE - 1-HOLE	90 1308	HEX SCREW SB M3x8 (10)
30 3170	ARS - ACTIVE REAR SUSPENSION ARM - HARD - 1-HOLE	90 1310	HEX SCREW SB M3x10 (10)
303712-0	ALU LOWER 2-PIECE SUSPENSION HOLDER - RIGHT	90 1408	HEX SCREW SB M4x8 (10)
303713-0	ALU LOWER 2-PIECE SUSPENSION HOLDER - LEFT	90 3306	HEX SCREW SFH M3x6 (10)

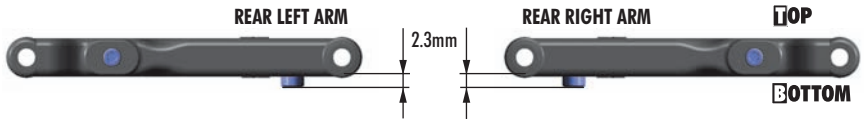
901310
SB M3x10

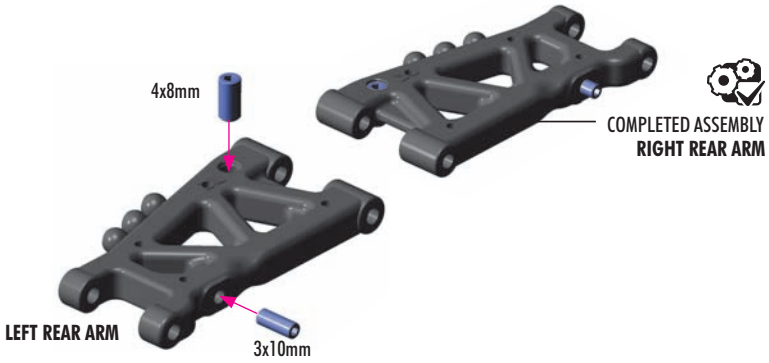
901408
SB M4x8

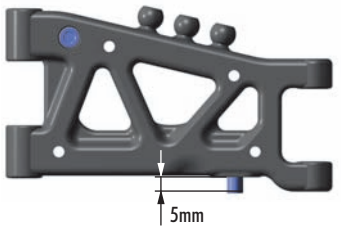
2x L=R REAR ARMS

STANDARD REAR SUSPENSION

(INITIAL SETTING)



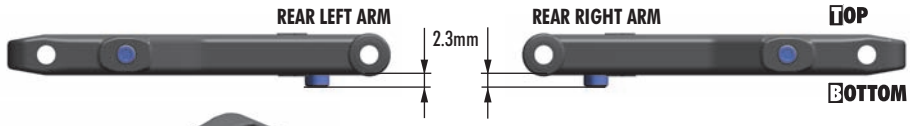


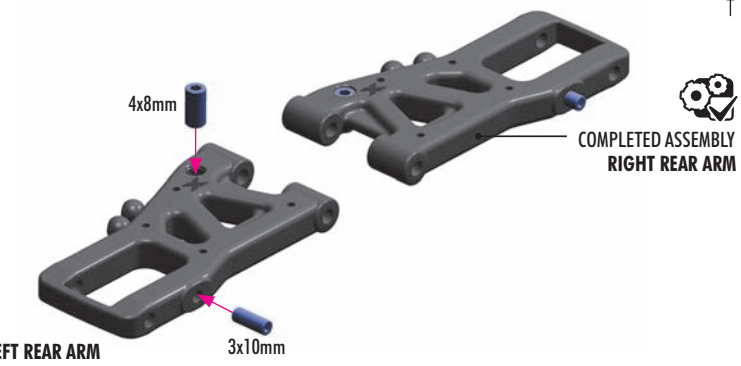


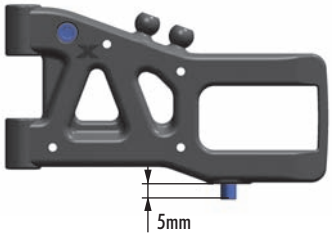
OPTION

REAR ARMS - STANDARD		
#303168	HARD	OPTION
#303169	GRAPHITE	INCLUDED
REAR ARMS - ARS™		
#303170	HARD	INCLUDED
#303171	GRAPHITE	OPTION

2x L=R ACTIVE REAR SUSPENSION™







REAR DOWNSTOP ADJUSTMENT

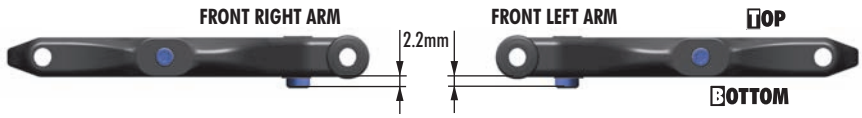
901308
SB M3x8

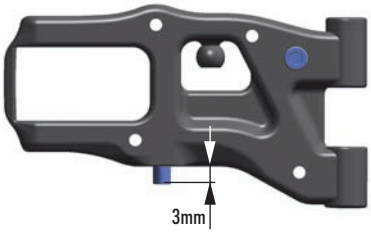
901408
SB M4x8

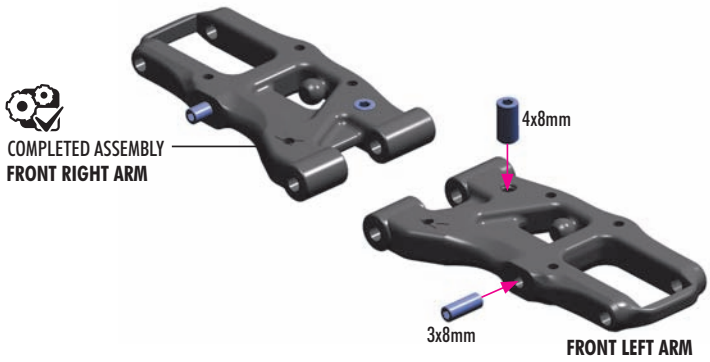
2x L=R FRONT ARMS

OPTION

FRONT ARMS		
#302168	HARD	OPTION
#302169	GRAPHITE	INCLUDED



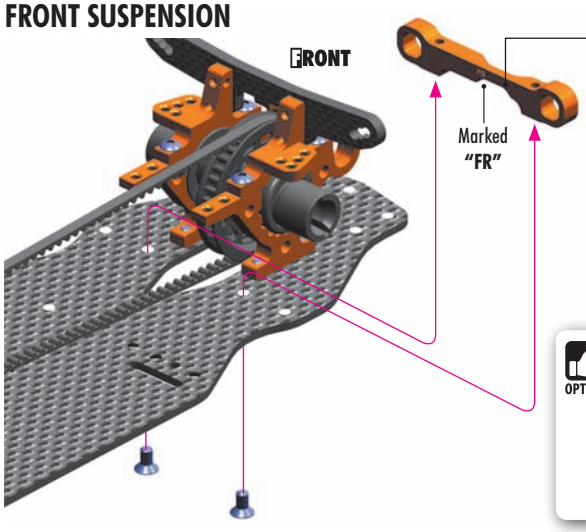




FRONT DOWNSTOP ADJUSTMENT

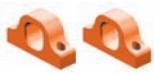
903306
SFH M3x6

FRONT SUSPENSION



NOTE ORIENTATION

OPTION #303710-0 ALU LOWER 2-PIECE SUSPENSION HOLDER
For more steering, we recommend using the optional alu separate suspension holders.



OPTION #302721
BRASS FRONT 1-PIECE SUSPENSION HOLDER (FR)

OPTION #302722-0
ALU FRONT 1-PIECE SUSPENSION HOLDER (FR-LOW)

303129
SHIM 3x6x1

903306
SFH M3x6

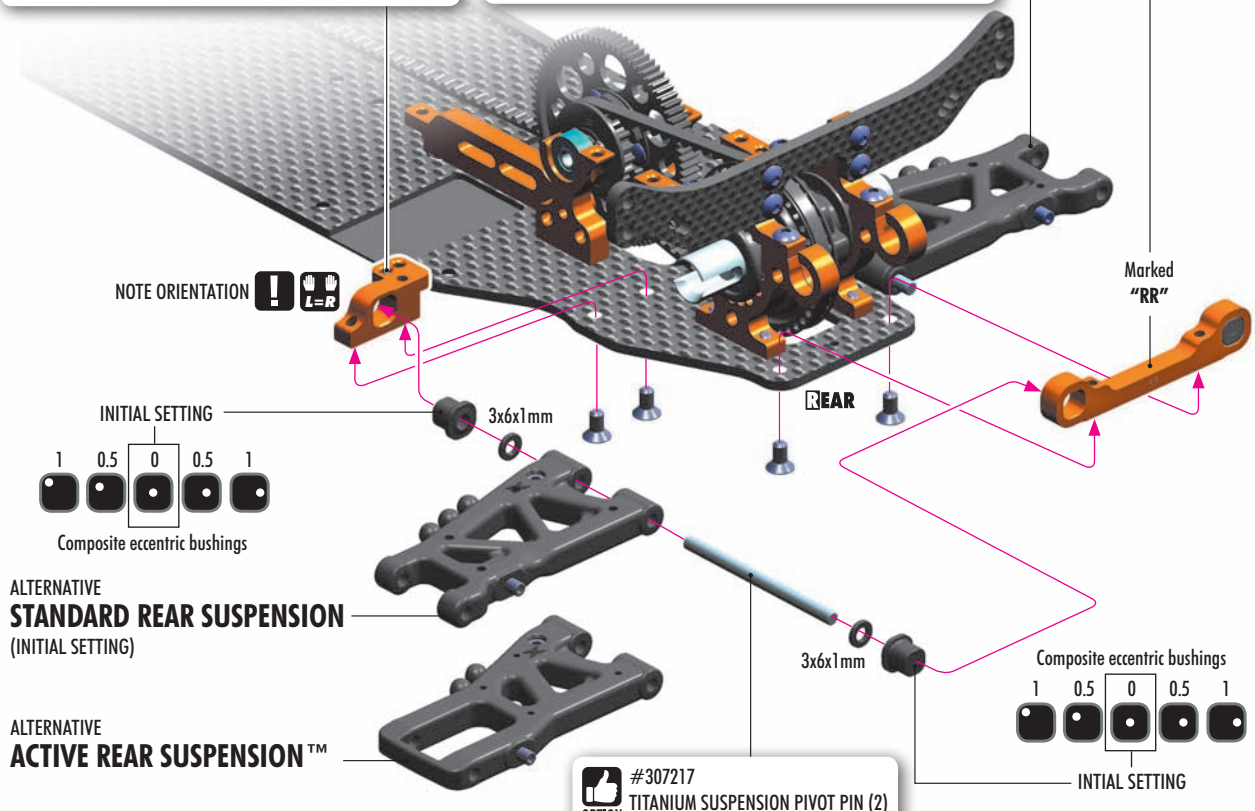
REAR SUSPENSION

OPTION #303721
BRASS REAR 1-PIECE SUSPENSION HOLDER - (RR)

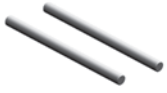
OPTION #303714 BRASS 2-PIECE SUSPENSION HOLDER - RIGHT
#303715 BRASS 2-PIECE SUSPENSION HOLDER - LEFT

It is extremely important that the arms move freely on the pivot pins. If they do not, use the Arm Reamer (3.0mm) to slightly resize the holes in the arms.

#107633 HUDY Arm Reamer 3.0mm



OPTION #307217
TITANIUM SUSPENSION PIVOT PIN (2)



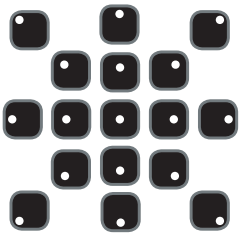
ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE CENTER

Middle position = 0.5 mm or 0.5° from center

Outer position = 1mm or 1° from center

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

All possible mounting alternatives of eccentric bushings



TOE-IN
TRACK-WIDTH
WHEELBASE
ROLL CENTER
ANTI-SQUAT
PRO-SQUAT

10

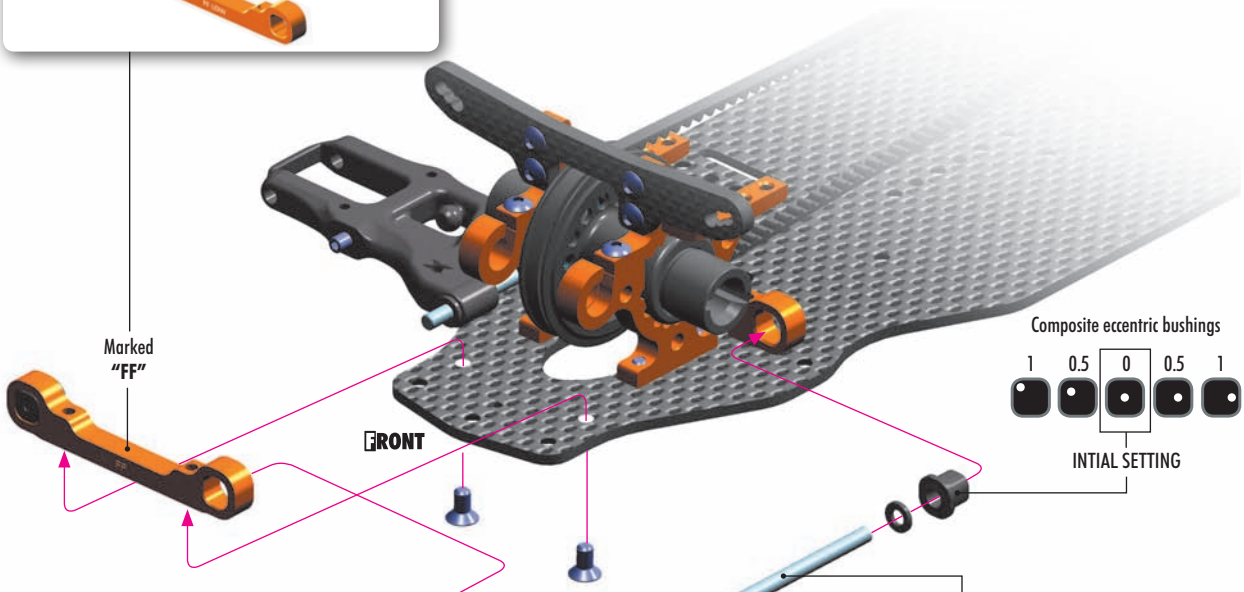
303129
SHIM 3x6x1

903306
SFH M3x6

FRONT SUSPENSION

OPTION #302711
BRASS FRONT 1-PIECE SUSPENSION HOLDER - (FF)

OPTION #302712-0
ALU FRONT 1-PIECE SUSPENSION HOLDER (FF-LOW)

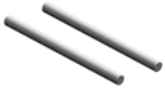


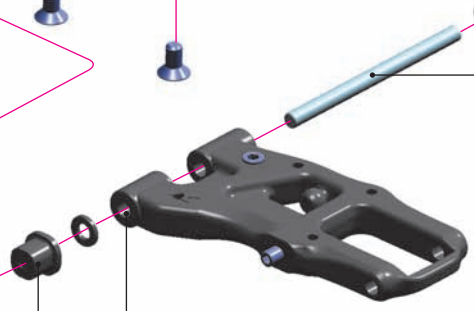
Composite eccentric bushings

1 0.5 0 0.5 1

INTIAL SETTING

OPTION #307217
TITANIUM SUSPENSION PIVOT PIN (2)



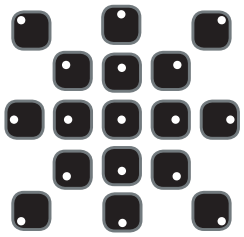


INITIAL SETTING

1 0.5 0 0.5 1

Composite eccentric bushings

All possible mounting alternatives of eccentric bushings



It is extremely important that the arms move freely on the pivot pins. If they do not, use the Arm Reamer (3.0mm) to slightly resize the holes in the arms.

L=R

#107633 HUDY Arm Reamer 3.0mm

ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE CENTER.

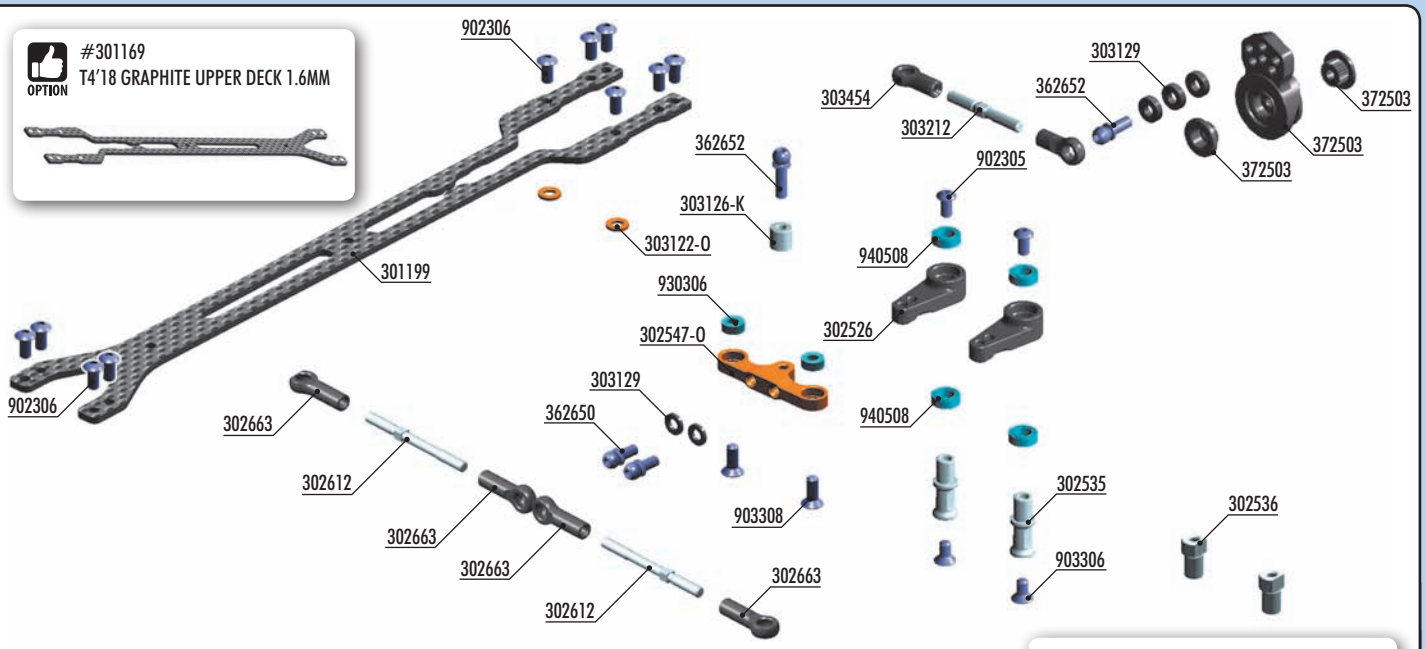
Middle position = 0.5 mm or 0.5° from center

Outer position = 1mm or 1° from center

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

TOE-IN
TRACK-WIDTH
WHEELBASE
ROLL CENTER
ANTI-DIVE
KICK-UP

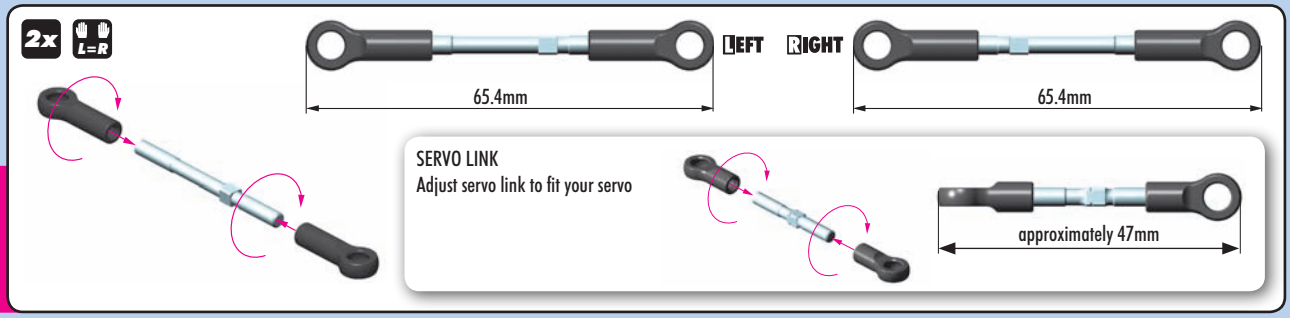
4. STEERING

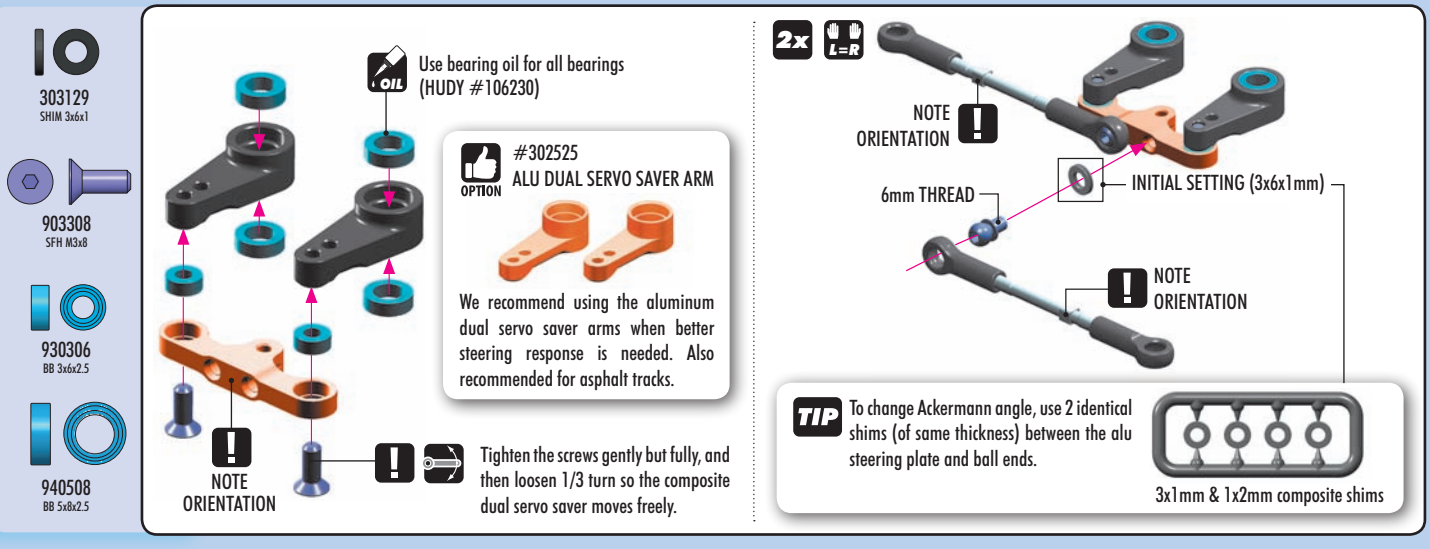


BAG 04

30 1199	T4'18 UPPER DECK 2.0MM GRAPHITE	30 3454	BALL JOINT 4.9MM - OPEN (4)
30 2526	COMPOSITE DUAL SERVO SAVER ARM	36 2650	BALL END 4.9MM WITH THREAD 6MM (2)
30 2535	ALU STEERING POST FOR DUAL SERVO SAVER (2)	36 2652	BALL END 4.9MM WITH THREAD 10MM (2)
30 2536	ALU STEERING POST FOR FLOATING SERVO SAVER (2)	37 2503	COMPOSITE SERVO SAVER - X-STIFF - SET - V2
30 2547-O	T4'14 ALU STEERING PLATE 8.5MM FOR DUAL SERVO SAVER - ORANGE		
30 2612	ALU ADJ. TURNBUCKLE M3 L/R 39 MM - SWISS 7075 T6 (2)	90 2305	HEX SCREW SH M3x5 (10)
30 2663	COMPOSITE BALL JOINT 5 MM - OPEN - V2 (8)	90 2306	HEX SCREW SH M3x6 (10)
30 3122-O	ALU SHIM 3x6x1.0MM - ORANGE (10)	90 3306	HEX SCREW SFH M3x6 (10)
30 3126-K	ALU SHIM 3x6x5.0MM - BLACK (10)	90 3308	HEX SCREW SFH M3x8 (10)
30 3129	COMPOSITE SET OF SHIMS (3x1MM; 1x2MM) (2)	93 0306	BALL-BEARING 3x6x2.5 (2)
30 3212	ALU ADJ. TURNBUCKLE L/R 26 MM - SWISS 7075 T6 (2)	94 0508	HIGH-SPEED BALL-BEARING 5x8x2.5 RUBBER SEALED (2)

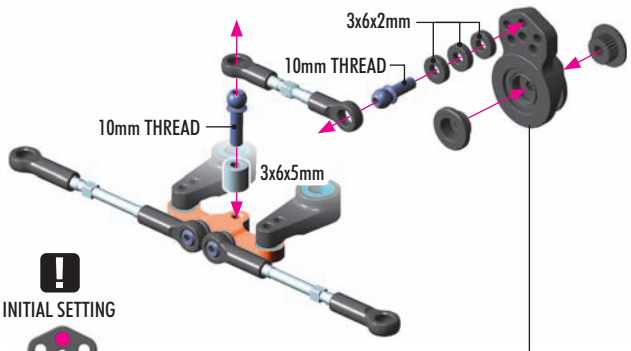
SET-UP BOOK
FRONT TOE-IN



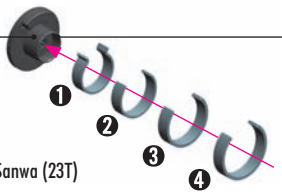


303129
SHIM 3x6x2

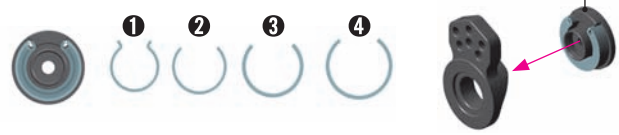
303126-K
SHIM 3x6x5



INITIAL SETTING



H = Hitec (24T)
F = Futaba, Robe (25T)
K = KO, JR, Airtronics, Sanwa (23T)



OPTION

HUDY ALU SERVO HORNS	
#293491	KO, JR, Sanwa, Airtr. - OFFSET - 23T
#293492	Hitec - OFFSET - 24T
#293493	Futaba - OFFSET - 25T

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

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

IMPORTANT!

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

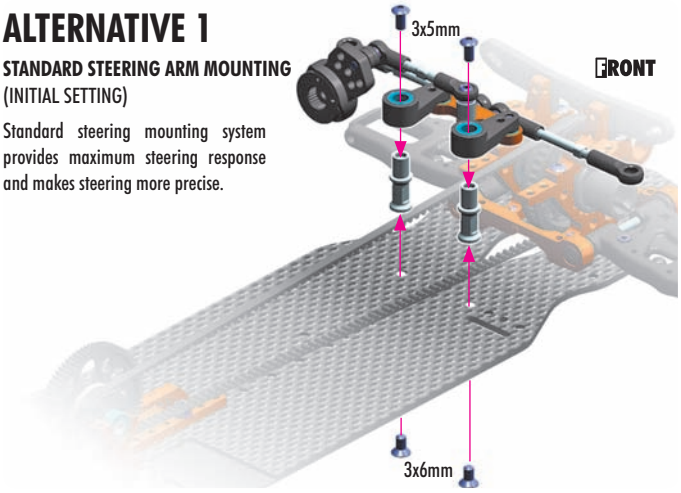
902305
SH M3x5

903306
SFH M3x6

ALTERNATIVE 1

STANDARD STEERING ARM MOUNTING
(INITIAL SETTING)

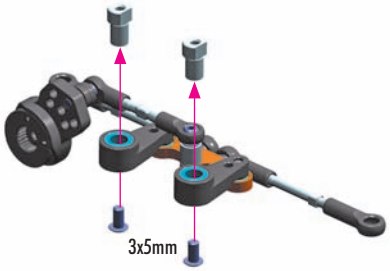
Standard steering mounting system provides maximum steering response and makes steering more precise.



ALTERNATIVE 2

FLOATING STEERING ARM MOUNTING

Floating steering mounting system makes the car easier to drive over curbs and on bumpy tracks. Helps prevent oversteer.



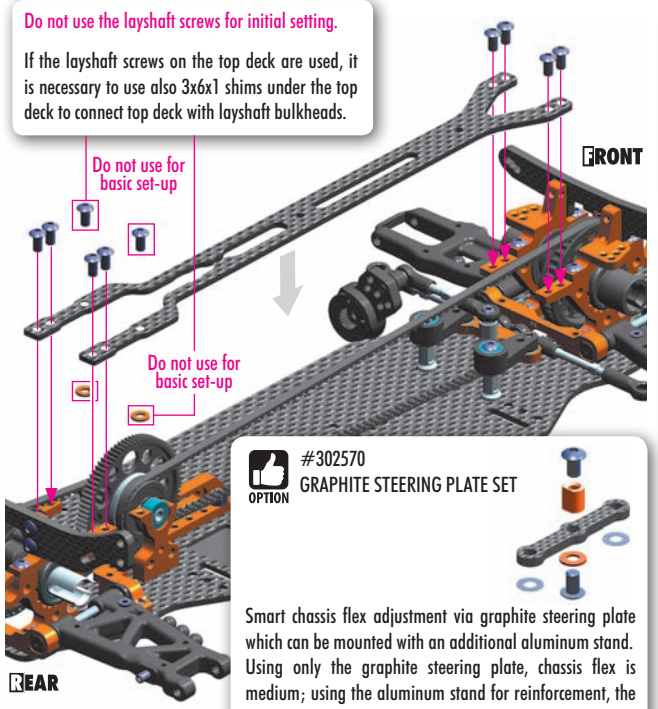
NOTE: The floating steering arms are mounted on the graphite servo holder in the Final Assembly page 33/step 1.

902306
SH M3x6

303122-O
SHIM 3x6x1

Do not use the layshaft screws for initial setting.

If the layshaft screws on the top deck are used, it is necessary to use also 3x6x1 shims under the top deck to connect top deck with layshaft bulkheads.



OPTION

#302570
GRAPHITE STEERING PLATE SET

Smart chassis flex adjustment via graphite steering plate which can be mounted with an additional aluminum stand. Using only the graphite steering plate, chassis flex is medium; using the aluminum stand for reinforcement, the flex becomes stiffer. Stiffer flex results in more aggressive handling and increased steering.

OPTION

#301169
T4'18 GRAPHITE UPPER DECK 1.6MM

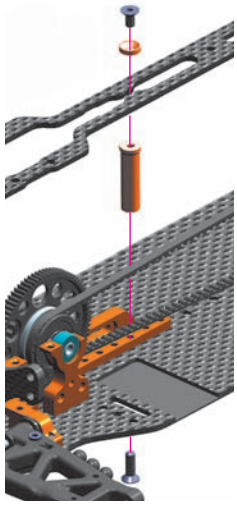
We recommend using optional 1.6mm top deck for super-low traction conditions as it provides more overall traction and steering.

OPTION

#306516-O
T4 ALU TOP DECK MOUNT - ORANGE

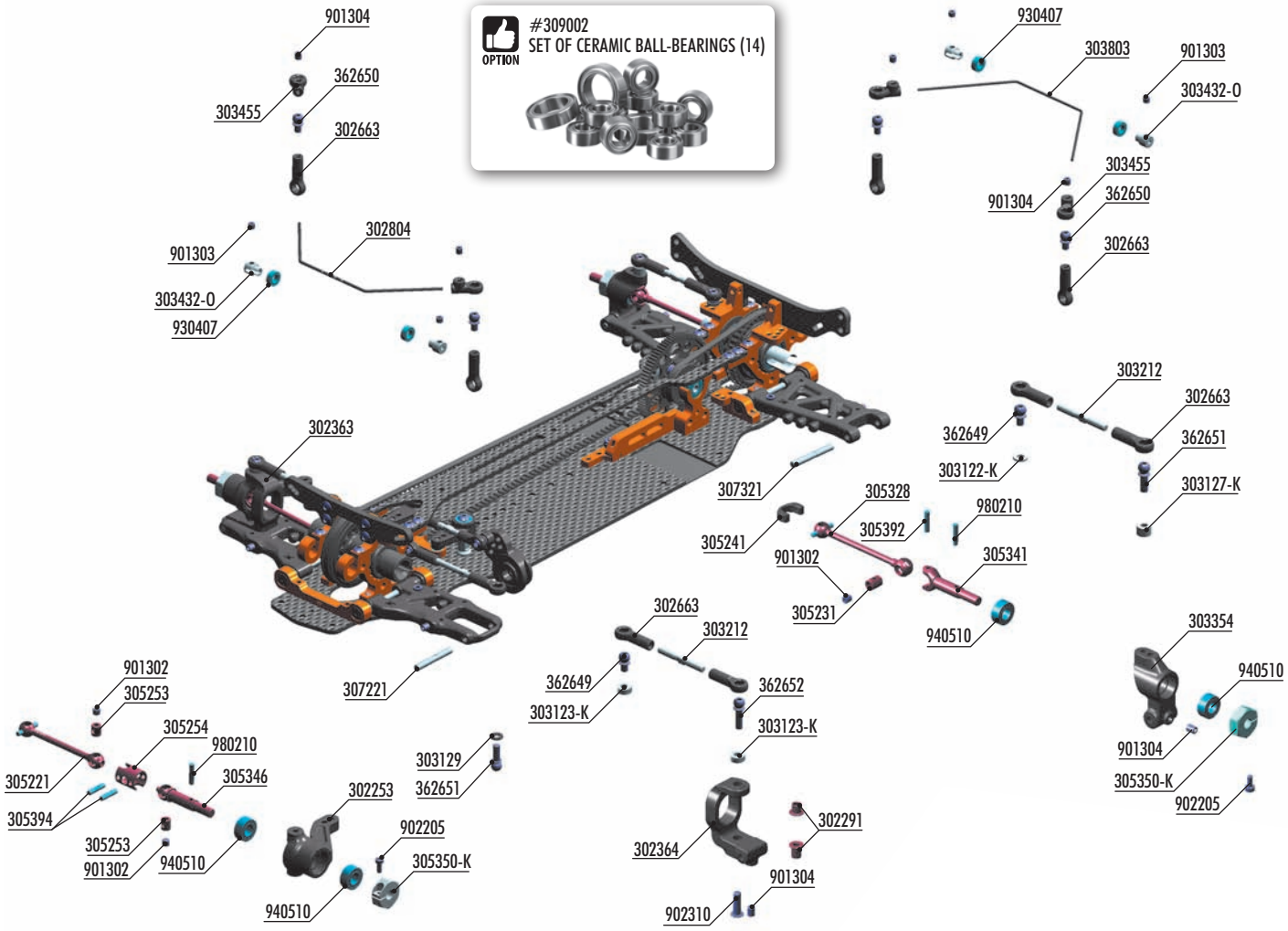
Optional alu top deck mount **improves** forward and rear **traction** and makes the car **more stable** and **easier to drive** under **low-traction conditions**, however generates **more on-power** push. Recommended for **low** and **medium traction** conditions.

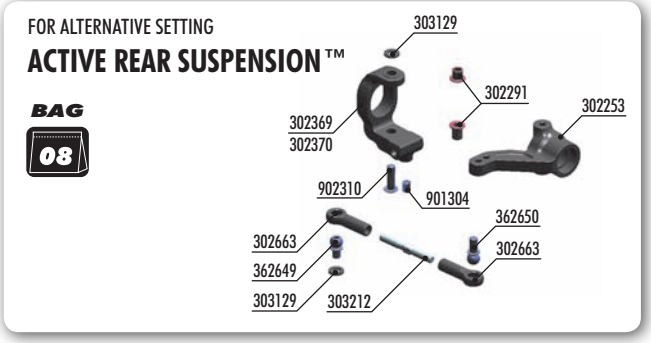
When the aluminum top deck mount is used, the screws from layshaft bulkheads and M3 nut from motor holder must be removed (page 10/ step 1).



SET-UP BOOK
CHASSIS FLEX SETTING
TOP DECK SETTING

5. FRONT & REAR TRANSMISSION





BAG 05

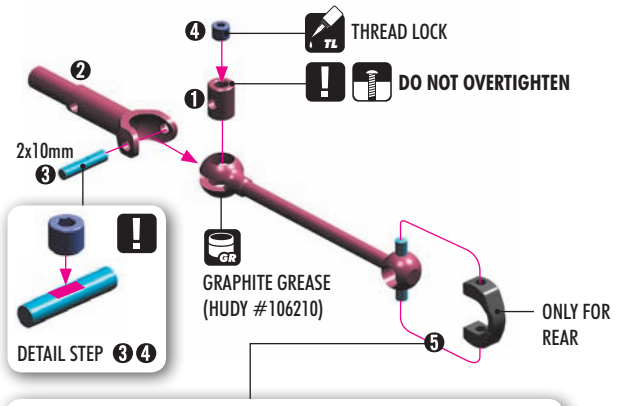
30 2253	COMPOSITE STEERING BLOCK - HARD
30 2291	STEEL STEERING BUSHING (2+2)
30 2363	COMPOSITE C-HUB RIGHT - 4° DEG. - MEDIUM - V2
30 2364	COMPOSITE C-HUB LEFT - 4° DEG. - MEDIUM - V2
30 2369	COMPOSITE C-HUB RIGHT - 0° DEG. - HARD
30 2370	COMPOSITE C-HUB LEFT - 0° DEG. - HARD
30 2663	COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8)
30 2804	ANTI-ROLL BAR FOR BALL BEARINGS - FRONT 1.4 MM
30 3122-K	ALU SHIM 3x6x1.0MM - BLACK (10)
30 3123-K	ALU SHIM 3x6x2.0MM - BLACK (10)
30 3127-K	ALU SHIM 3x6x4.0MM - BLACK (10)
30 3129	COMPOSITE SET OF SHIMS (3x1MM; 1x2MM) (2)
30 3210	TURNBUCKLE M3 L/R 26 MM - HUDY SPRING STEEL™ (2) (OPTION)
30 3212	ALU ADJ. TURNBUCKLE M3 L/R 26 MM - SWISS 7075 T6 (2)
30 3212-O	ALU ADJ. TURNBUCKLE L/R 26 MM - ORANGE - SWISS 7075 T6 (2) (OPTION)
30 3354	COMPOSITE UPRIGHT 0° OUTBOARD TOE-IN - HARD
30 3432-O	ALU ANTI-ROLL BAR BUSHING - ORANGE (2)
30 3455	COMPOSITE ANTI-ROLL BAR BALL JOINT 4.9 MM (4)
30 3803	ANTI-ROLL BAR FOR BALL BEARINGS - REAR 1.3 MM
30 5231	DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
30 5241	DRIVE SHAFT REPLACEMENT CAP 3.5 MM (4)
30 5221	ECS (ES) DRIVE SHAFT 51MM FOR 2MM PIN - HUDY SPRING STEEL™ (1)
30 5253	ECS DRIVE SHAFT COUPLING FOR 2MM PIN - HUDY SPRING STEEL™
30 5254	ECS (ES) DRIVE SHAFT CASE FOR 2MM PIN - HUDY SPRING STEEL™
30 5328	ALU DRIVE SHAFT SWISS 7075 T6 - HARDCOATED - 50MM
30 5332	ECS ES (ES) DRIVE SHAFT 52MM - HUDY SPRING STEEL™ - SET (OPTION)
30 5333	ECS ES (ES) DRIVE SHAFT 50MM - HUDY SPRING STEEL™ - SET (OPTION)
30 5334	ECS ES (ES) DRIVE SHAFT 51MM - HUDY SPRING STEEL™ - SET
30 5346	ECS DRIVE AXLE FOR 2MM PIN - HUDY SPRING STEEL™
30 5394	ECS DRIVE SHAFT PIN 2 x 9 WITH FLAT SPOT (2)
30 5341	DRIVE AXLE - LIGHTWEIGHT - HUDY SPRING STEEL™
30 5350-K	ALU WHEEL HUB - BLACK (2)
30 5392	DRIVE SHAFT PIN 2 x 10 WITH FLAT SPOT (2)
30 7221	FRONT ARM PIVOT PIN (2)
30 7321	REAR ARM PIVOT PIN (2)
36 2649	BALL END 4.9MM WITH THREAD 5MM (2)
36 2650	BALL END 4.9MM WITH THREAD 6MM (2)
36 2651	BALL END 4.9MM WITH THREAD 8MM (2)
36 2652	BALL END 4.9MM WITH THREAD 10MM (2)
90 1302	HEX SCREW SB M3x2.5 (10)
90 1303	HEX SCREW SB M3x3 (10)
90 1304	HEX SCREW SB M3x4 (10)
90 2205	HEX SCREW SH M2x5 (10)
90 2310	HEX SCREW SH M3x10 (10)
93 0407	BALL-BEARING 4x7x2.5 (2)
94 0510	HIGH-SPEED BALL-BEARING 5x10x4 RUBBER SEALED (2)
98 0210	PIN 2x10 (10)

901302
SB M3x2.5

305392
P 2x10

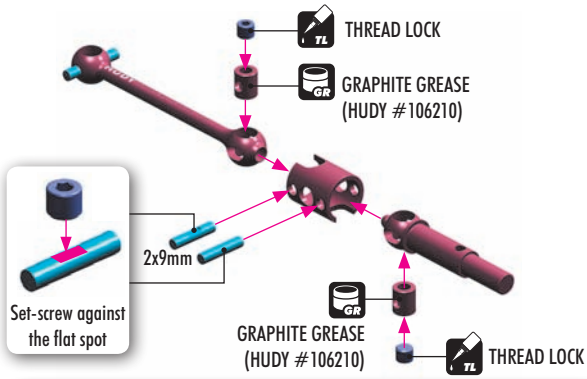
305394
P 2x9

2x REAR TRANSMISSION



TIP For easy installation of the #305241 plastic caps, use pliers as shown.

2x FRONT TRANSMISSION



ECS DRIVE SHAFTS

ECS drive shafts are available in 51mm length in kit, or optional 50mm & 52mm lengths. The ECS drive shafts were developed to decrease front wheel vibration when racing with a solid front axle, thus providing a much smoother and quieter ride and increased steering.

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

Longer drive shafts (52mm) make the car easier to drive because they give more traction and better stability, mainly in chicanes. However, the car will understeer more than with shorter (50mm) shafts which give a lot of steering and make the car more aggressive.
Both left & right shafts should ALWAYS be the same length at one end of the car (front or rear).

52mm shafts are recommended for **carpet high-traction** tracks.
51mm shafts are recommended for **carpet** tracks and **large asphalt** tracks.
50mm shafts are recommended for **low-traction** or **tight asphalt** tracks.

The new 51mm drive shafts which are included in the kit are the best compromise between 50 and 52mm length.

OPTION

DRIVE SHAFTS	
#305323	50MM - STEEL
#305324	52MM - STEEL
#305326	52MM - ALU
#305328	50MM - ALU
#305332	52MM - ECS
#305333	50MM - ECS
#305334	51MM - ECS

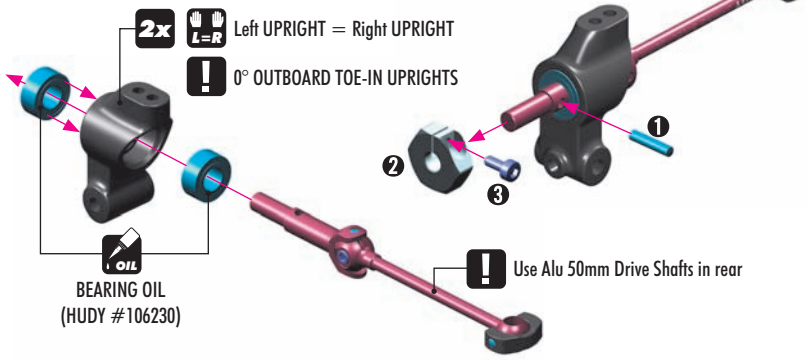
902205
SH M2x5

940510
BB 5x10x4

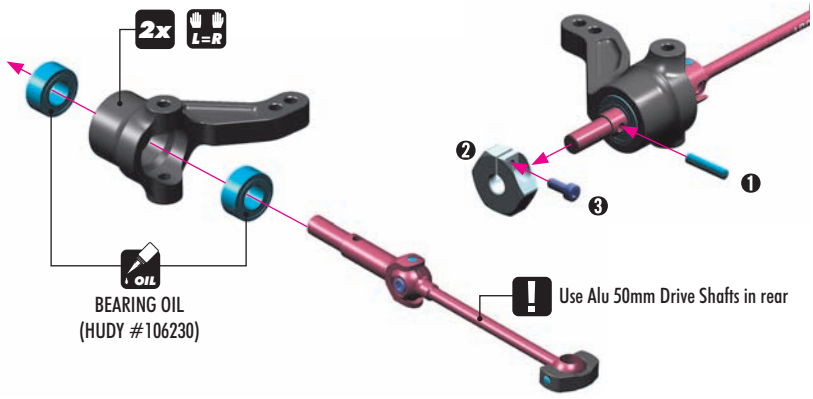
980210
P 2x10

L=R REAR TRANSMISSION

ALTERNATIVE
STANDARD REAR SUSPENSION
INITIAL SETTING



ALTERNATIVE
ACTIVE REAR SUSPENSION™



T4 OPTIONAL PARTS

	UPRIGHTS		
	#303351	1° - R MEDIUM	(2-HOLE)
	#303352	0° - R/L MEDIUM	(2-HOLE)
	#303353	1° - R HARD	(2-HOLE)
INCLUDED	#303354	0° - R/L HARD	(2-HOLE)
	#303360	0° - R/L GRAPHITE	(2-HOLE)
	#303361	1° - L MEDIUM	(2-HOLE)
	#303362	0° - R/L MEDIUM	(1-HOLE)
	#303363	1° - L HARD	(2-HOLE)
	#303364	0° - R/L HARD	(1-HOLE)
	#303358	ALU 1° - R/L	(4-HOLE)
	#303359	ALU 2° - R/L	(4-HOLE)

	WHEEL HUBS		
INCLUDED	#305350-K	ALU - OFFSET	(0 mm)
	#305351	ALU - OFFSET	(-0.75 mm)
	#305352	ALU - OFFSET	(+0.75 mm)
	#305353	ALU - OFFSET	(+1.5 mm)

	STEERING BLOCKS	
	#302252	MEDIUM
INCLUDED	#302253	HARD
	#302254	GRAPHITE
	#302256	ALU

SET-UP BOOK
REAR TOE-IN
TRACK-WIDTH

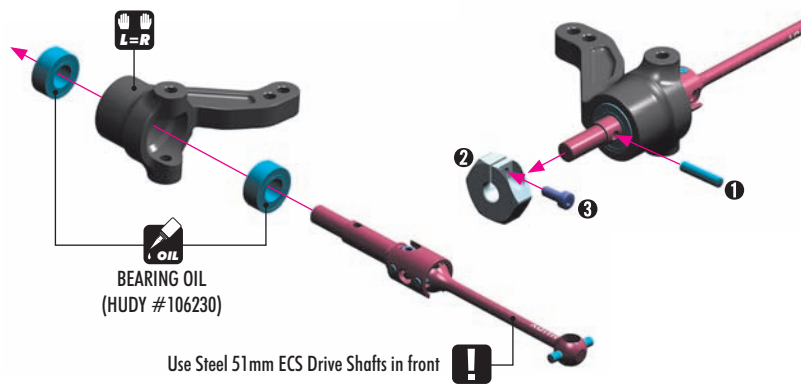
902205
SH M2x5

940510
BB 5x10x4

980210
P 2x10

SET-UP BOOK
REAR TOE-IN
TRACK-WIDTH

L=R 2x FRONT TRANSMISSION



T4 OPTIONAL PARTS

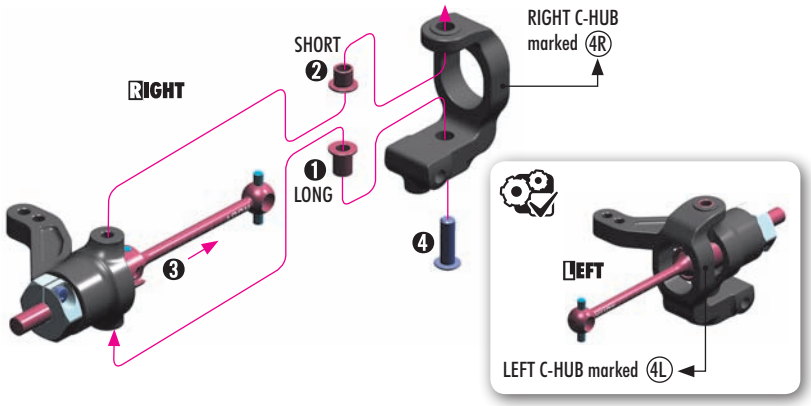
	WHEEL HUBS	
INCLUDED	#305350-K	ALU - OFFSET 0 MM
	#305351	ALU - OFFSET -0.75 MM
	#305352	ALU - OFFSET +0.75 MM
	#305353	ALU - OFFSET +1.5 MM

	STEERING BLOCKS	
	#302252	MEDIUM
INCLUDED	#302253	HARD
	#302254	GRAPHITE
	#302256	ALU

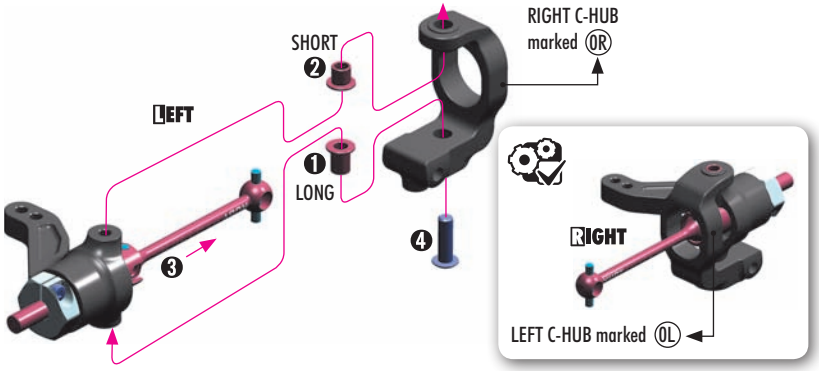
902310
SH M3x10

SET-UP BOOK
CASTER ADJUSTMENT

L=R 2x FRONT TRANSMISSION



L=R 2x ACTIVE REAR SUSPENSION™

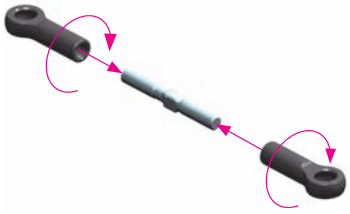


	C-HUBS FRONT TRANSMISSION	
	#302334	ALU 0° - R+L
	#302335	ALU 2° - RIGHT
	#302336	ALU 2° - LEFT
	#302337	ALU 4° - RIGHT
	#302338	ALU 4° - LEFT
	#302339	ALU 6° - RIGHT
	#302340	ALU 6° - LEFT
	#302361	2°- RIGHT - MEDIUM
	#302362	2°- LEFT - MEDIUM
INCLUDED	#302363	4°- RIGHT - MEDIUM
INCLUDED	#302364	4°- LEFT - MEDIUM
	#302365	6°- RIGHT - MEDIUM
	#302366	6°- LEFT - MEDIUM
	#302371	2°- RIGHT - HARD
	#302372	2°- LEFT - HARD
	#302373	4°- RIGHT - HARD
	#302374	4°- LEFT - HARD
	#302375	6°- RIGHT - HARD
	#302376	6°- LEFT - HARD
	#302383	4°- RIGHT - GRAPHITE
	#302384	4°- LEFT - GRAPHITE

	C-HUBS ACTIVE REAR TRANSMISSION	
	#302334	ALU 0°
	#302359	0° - RIGHT - MEDIUM
	#302360	0° - LEFT - MEDIUM
INCLUDED	#302369	0°- RIGHT - HARD
INCLUDED	#302370	0°- LEFT - HARD
	#302379	0° - RIGHT - GRAPHITE
	#302380	0° - LEFT - GRAPHITE

SET-UP BOOK
CAMBER ADJUSTMENT

4x



FRONT

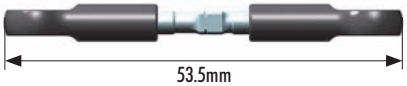
2x L=R

FRONT LEFT = FRONT RIGHT

REAR

2x L=R

REAR LEFT = REAR RIGHT



303122-K
SHIM 3x6x1

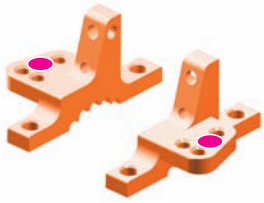
303127-K
SHIM 3x6x4

901304
SB M3x4

REAR TRANSMISSION

ALTERNATIVE
STANDARD REAR SUSPENSION
INITIAL SETTING

L=R 2x
INITIAL SETTING



OPTION
1-HOLE REAR UPRIGHTS (See page 19)

An optional 1-hole rear upright is available for fine tuning. This optional upright may be used on high-traction tracks or tracks with long sweepers, since the position of the center hole will allow faster driving through those corners because of better cornering speed.

OPTION #307322 TITANIUM REAR ARM PIVOT PIN (2)

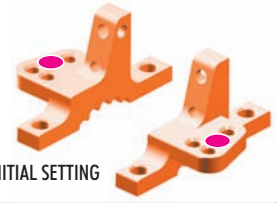
303122-K
SHIM 3x6x1

303129
SHIM 3x6x1

901304
SB M3x4

ALTERNATIVE
ACTIVE REAR SUSPENSION™

L=R 2x
INITIAL SETTING



OPTION #307322 TITANIUM REAR ARM PIVOT PIN (2)

SET-UP BOOK
ROLL CENTER
CAMBER

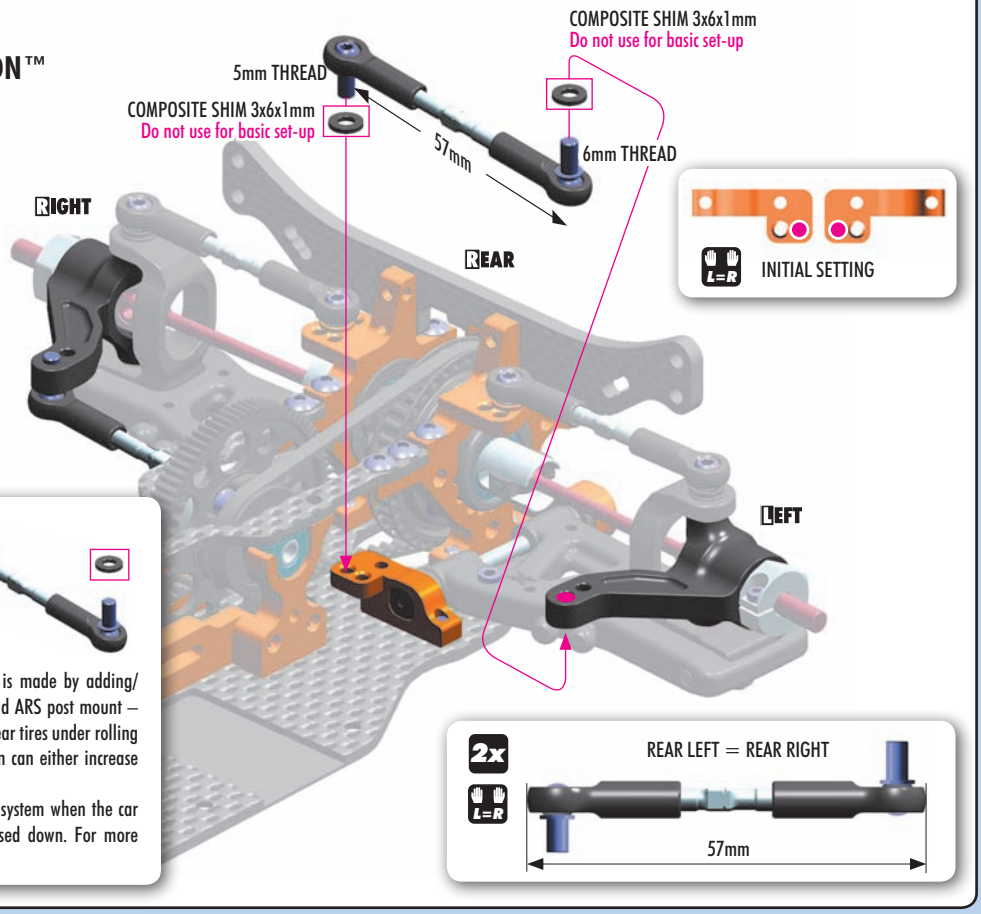
10
303129
SHIM 3x6x1

903306
SFH M3x6

2x L=R REAR TRANSMISSION

ALTERNATIVE
ACTIVE REAR SUSPENSION™

STEP 2



INITIAL SETTING

IMPORTANT
ALWAYS USE ONLY THIS POSITION

ARS LINKAGE

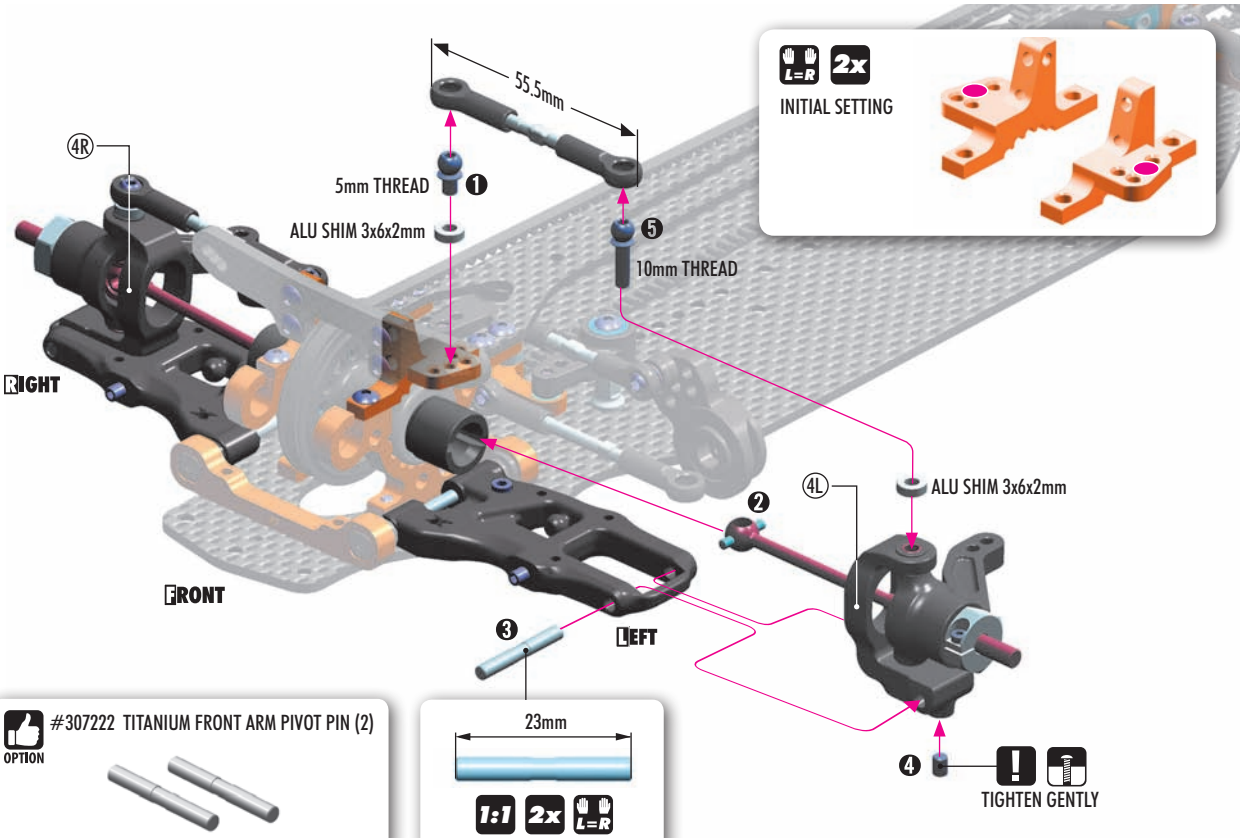
The angle of the ARS linkage – which is made by adding/removing shims on the steering block and ARS post mount – changes the toe-in characteristics of the rear tires under rolling effect; when the car is pressed the toe-in can either increase or decrease.
Check the toe-in change on your set-up system when the car is in neutral position and when is pressed down. For more information see the HUDY Set-up Book.

SET-UP BOOK
ACTIVE TOE-IN

303123-K
SHIM 3x6x2

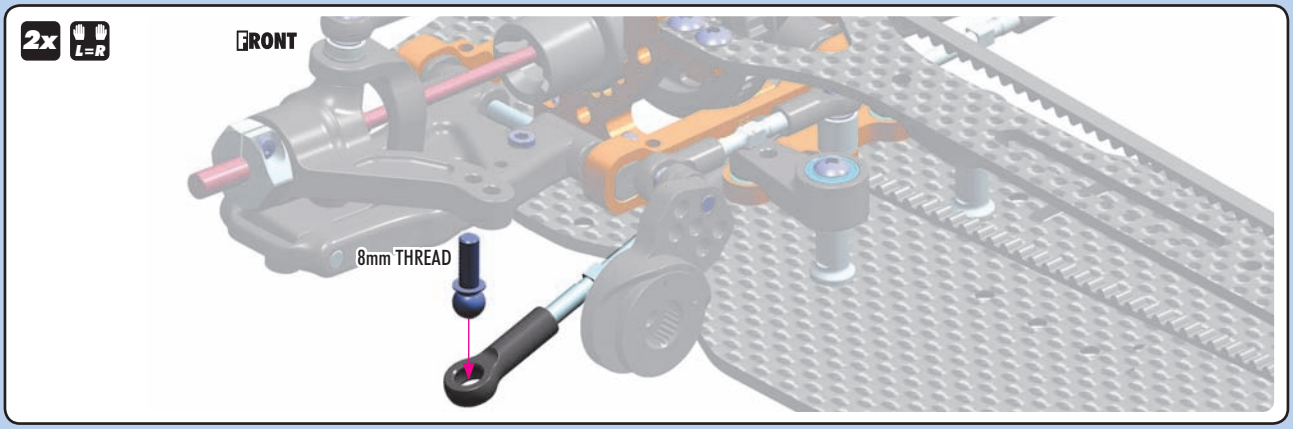
901304
SB M3x4

2x L=R FRONT TRANSMISSION



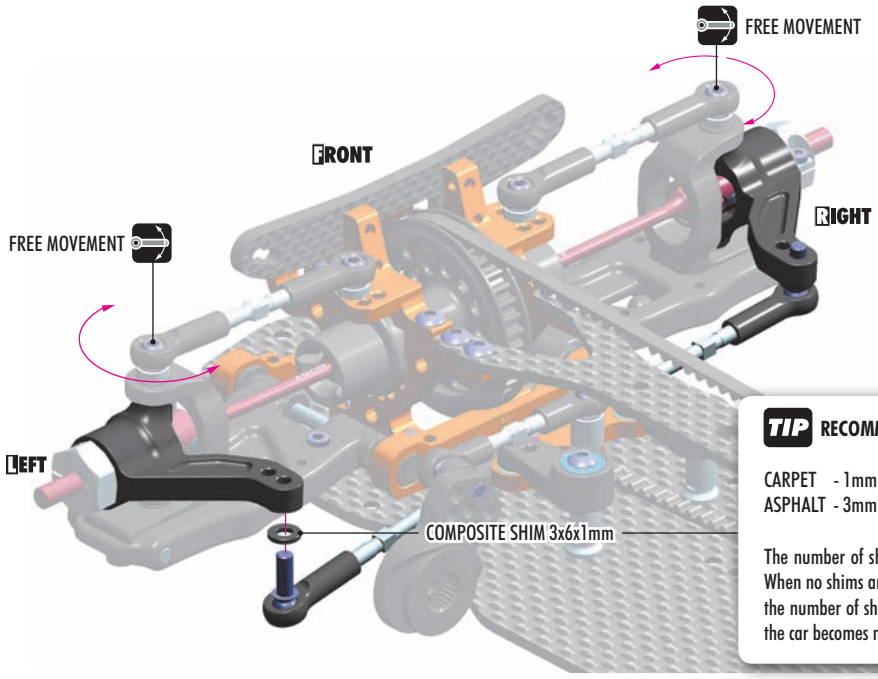
OPTION
#307222 TITANIUM FRONT ARM PIVOT PIN (2)

SET-UP BOOK
ROLL-CENTER



10
303129
SHIM 3x6x1

FRONT TRANSMISSION



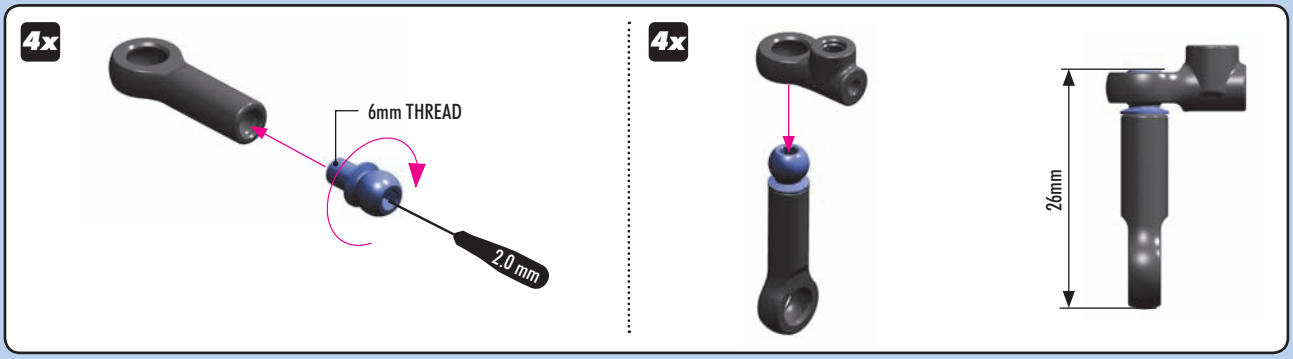
INITIAL SETTING

TIP **RECOMMENDED BUMPSTEER SETTINGS:**

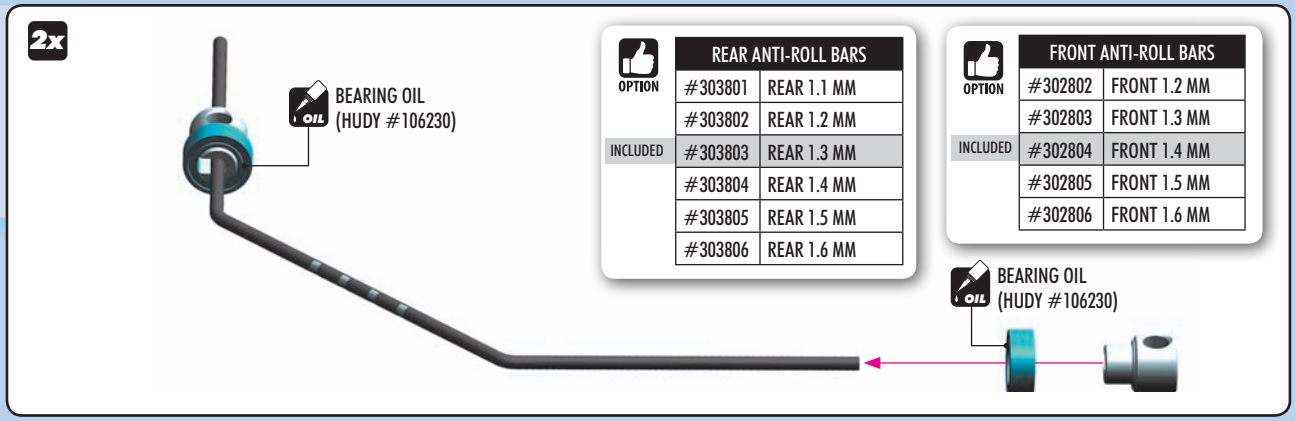
CARPET - 1mm thick shim
ASPHALT - 3mm thick shims

The number of shims changes the angles of the steering linkage. When no shims are used, the car is easy to drive into the corner. As the number of shims is increased, in-corner steering increases but the car becomes more difficult to drive.

SET-UP BOOK
ACKERMANN BUMPSTEER



10
930407
BB 4x7x2.5

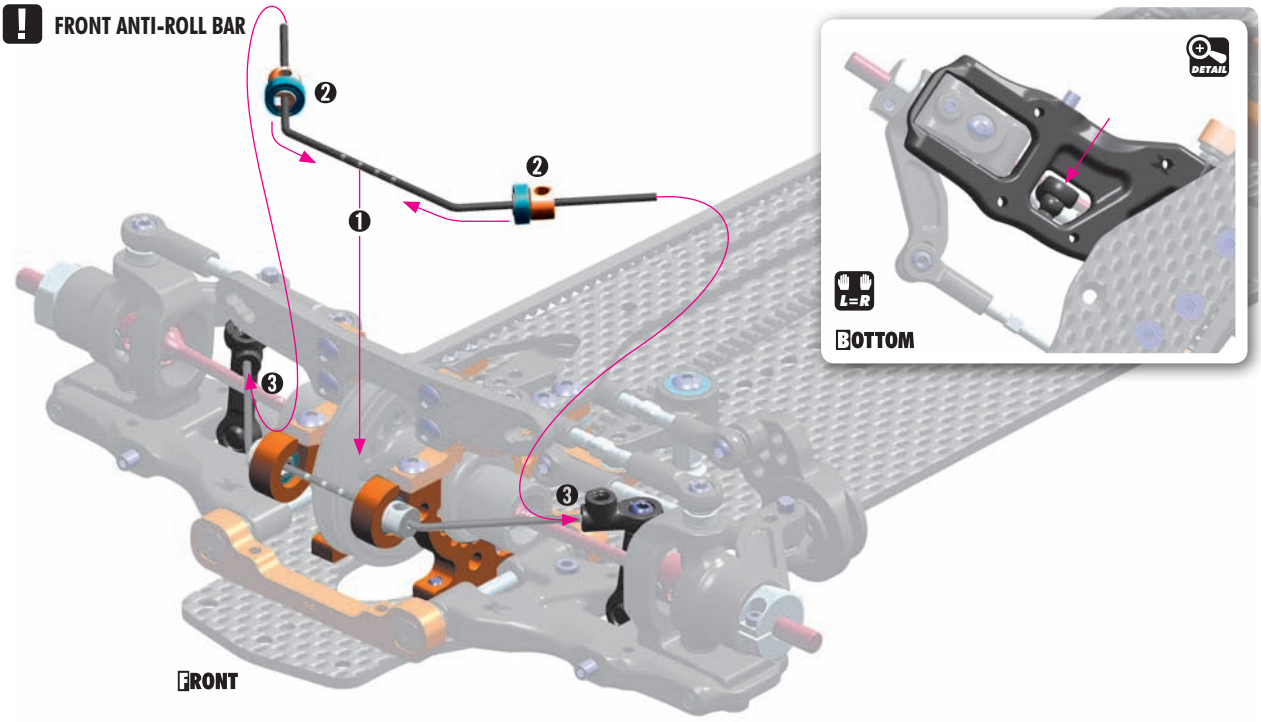


OPTION	REAR ANTI-ROLL BARS	
	#303801	REAR 1.1 MM
	#303802	REAR 1.2 MM
INCLUDED	#303803	REAR 1.3 MM
	#303804	REAR 1.4 MM
	#303805	REAR 1.5 MM
	#303806	REAR 1.6 MM

OPTION	FRONT ANTI-ROLL BARS	
	#302802	FRONT 1.2 MM
	#302803	FRONT 1.3 MM
INCLUDED	#302804	FRONT 1.4 MM
	#302805	FRONT 1.5 MM
	#302806	FRONT 1.6 MM

SET-UP BOOK
ANTI-ROLL BARS

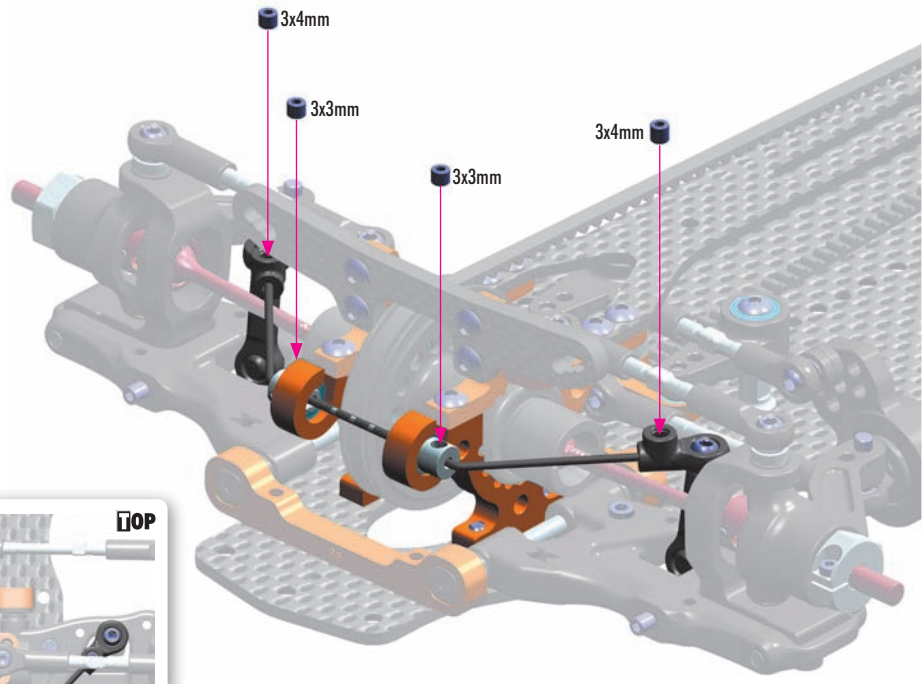
FRONT ANTI-ROLL BAR

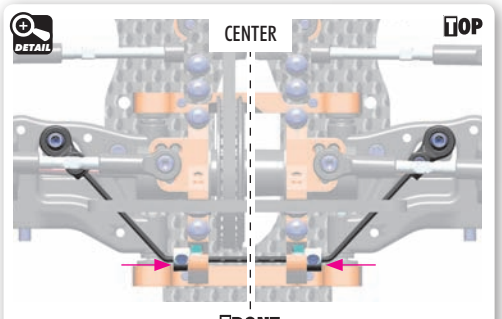


901303
SB M3x3

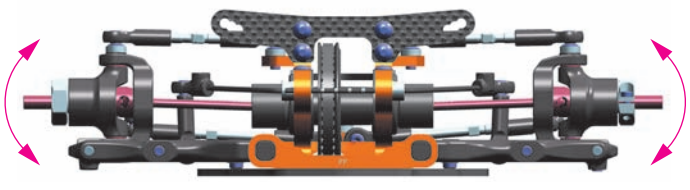
901304
SB M3x4

FRONT ANTI-ROLL BAR





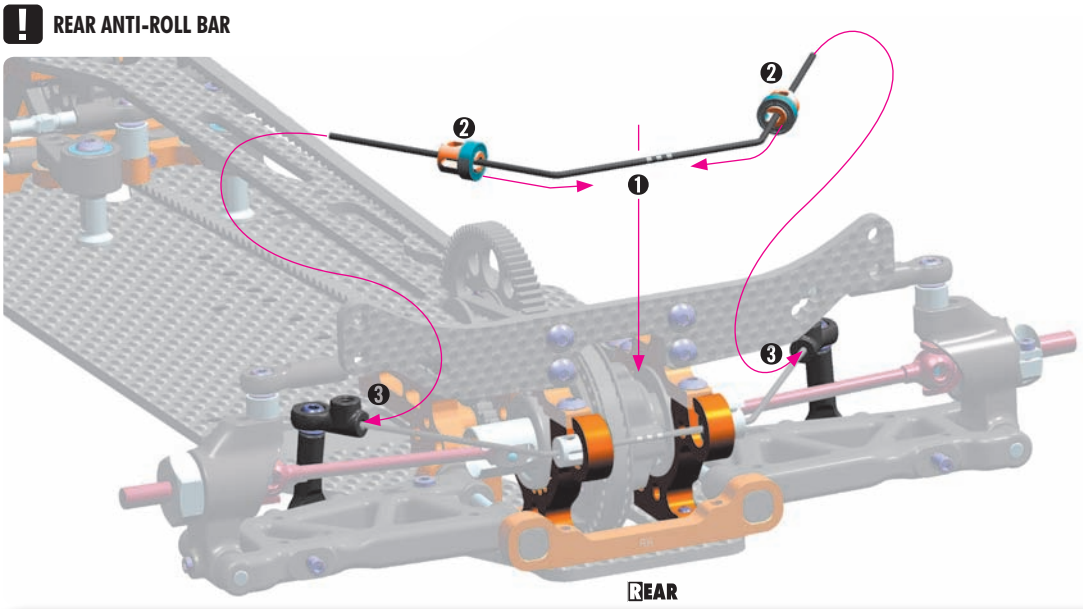
Set the bar into the center, remove the play in the bushings, and tighten the setscrews fully.



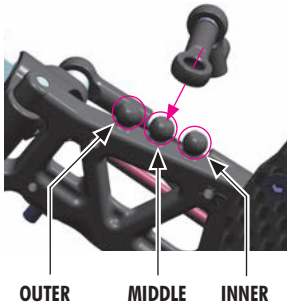
When the bars are set, verify that both sides move at the same time. If they do, the bars are set up correctly. If not, make sure that both downstops are the same and that the bar wire is flat.

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

REAR ANTI-ROLL BAR



2x L=R INITIAL POSITION



STANDARD SUSPENSION

INITIAL SETTING = MIDDLE BALL

Use the **INNER** ball on low-traction tracks (mainly low-traction carpet tracks). The car will have more traction & more steering, but will be more difficult to drive because the car will roll more.

Use the **MIDDLE** ball on low- to medium-traction tracks (asphalt, carpet). The car will have a little less rear traction and the car will roll a little less which will make it easier to drive with more cornering speed.

Use the **OUTER** ball on high-traction tracks (mainly high-traction asphalt tracks). The car will roll even less which will allow the use of more throttle in the corners, however the car will have less traction.

ACTIVE REAR SUSPENSION™

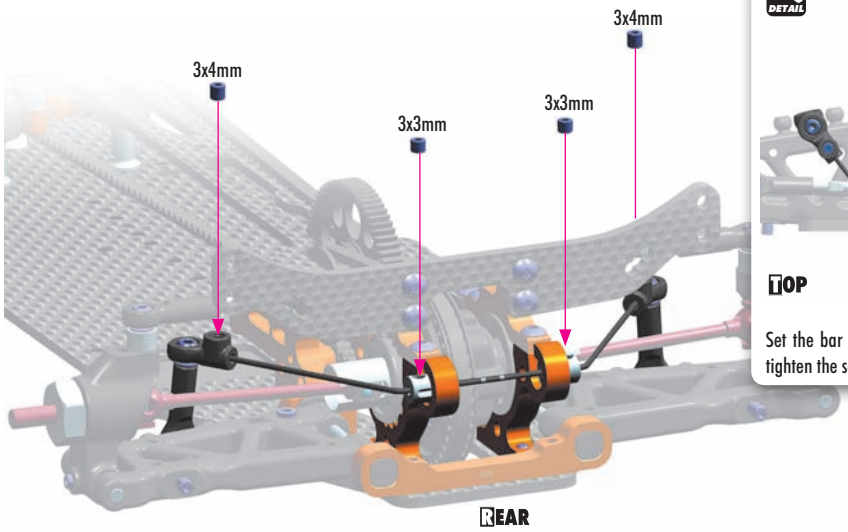
ARS arm has only two balls which are identical as inner & middle balls on the standard rear arm.

SET-UP BOOK
ANTI-ROLL BARS

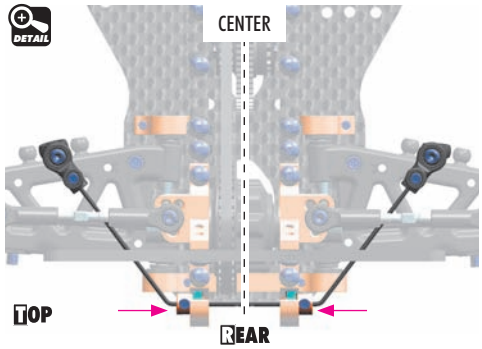
901303
SB M3x3

901304
SB M3x4

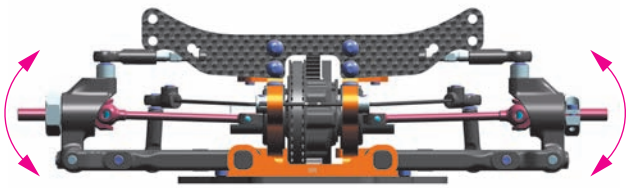
REAR ANTI-ROLL BAR



DETAIL



Set the bar into the center, remove the play in the bushings, and tighten the setscrews fully.

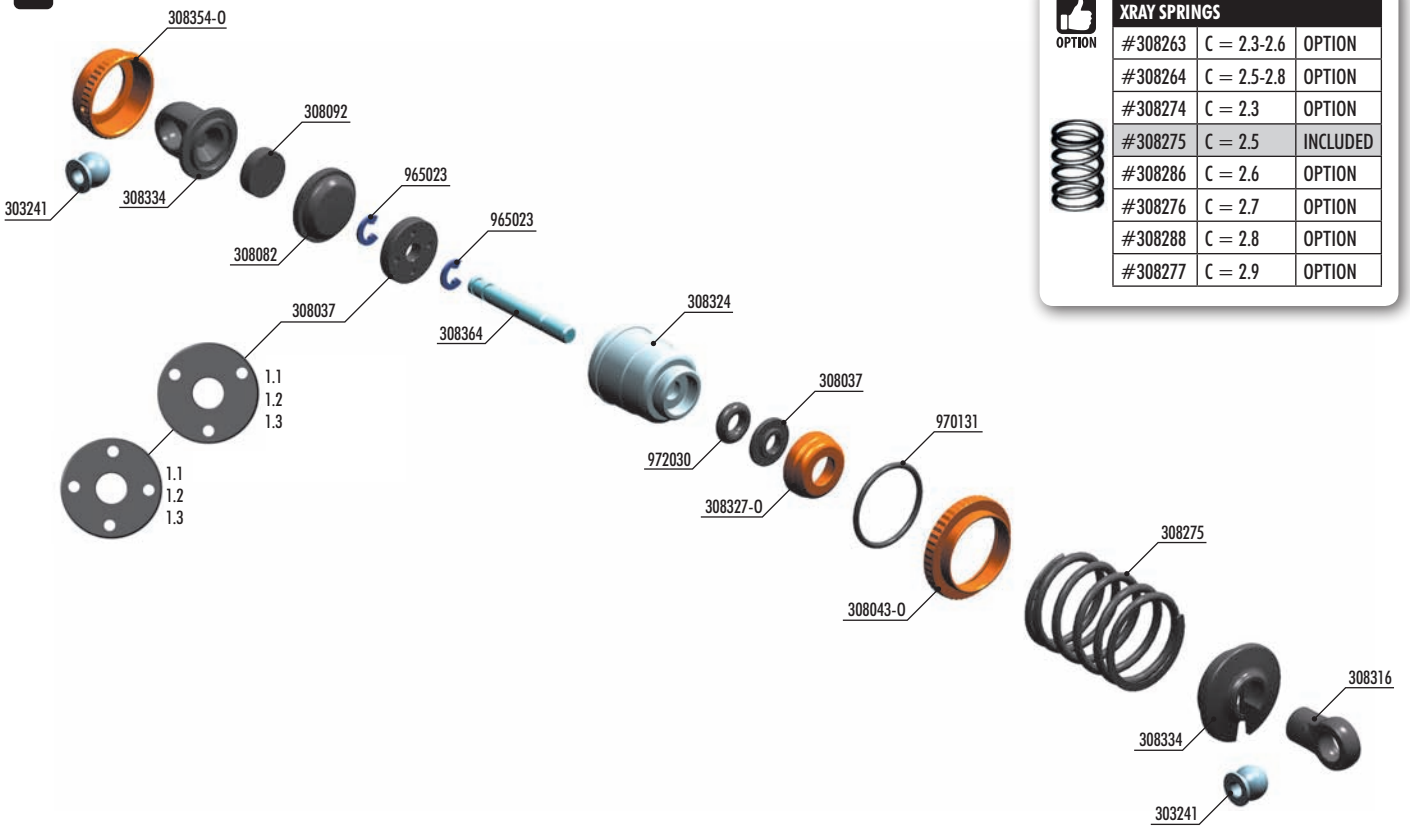


When the bars are set, verify that both sides move at the same time. If they do, the bars are set up correctly. If not, make sure that both downstops are the same and that the bar wire is flat.

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

6. SHOCK ABSORBERS

4x



OPTION

XRAY SPRINGS		
#308263	C = 2.3-2.6	OPTION
#308264	C = 2.5-2.8	OPTION
#308274	C = 2.3	OPTION
#308275	C = 2.5	INCLUDED
#308286	C = 2.6	OPTION
#308276	C = 2.7	OPTION
#308288	C = 2.8	OPTION
#308277	C = 2.9	OPTION

OPTION

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

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

OPTION

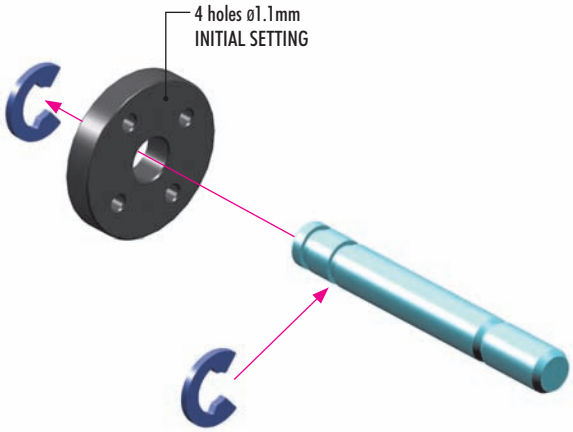
#308031-O
ALU XRAY SHOCK SPRING RETAINING COLLAR - ORANGE (4)

BAG 06

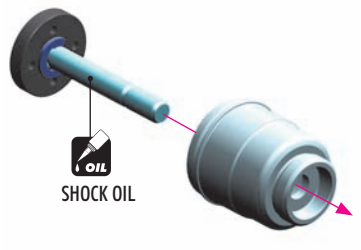
30 3241	BALL UNIVERSAL 5.8 MM HEX (4)	30 8334	ULP COMPOSITE SHOCK PARTS
30 8037	COMPOSITE PISTONS 4-HOLE 1.0-1.2MM, 3-HOLE 1.0-1.2MM	30 8354-O	ULP ALU SHOCK CAP-NUT WITH VENT HOLE - ORANGE (2)
30 8043-O	ULP ALU SHOCK ADJUSTABLE NUT - ORANGE (2)	30 8364	T4 HARDENED SHOCK SHAFT FOR ALU SHOCKS (2)
30 8082	T4 SHOCK ABSORBER MEMBRANE (4)	30 8275	XRAY SPRING-SET C=2.5
30 8092	T4 SHOCK FOAM INSERTS (4)		
30 8308-O	ULP ALU SHOCK ABSORBER-SET - ORANGE (2)	96 5023	E-CLIP 2.3 (10)
30 8316	SHOCK BALL JOINT - OPEN (4)	97 0131	O-RING 13 x 1.0 (10)
30 8324	ULP ALU SHOCK BODY (2)	97 2030	SILICONE O-RING 3 x 2 (10)
30 8327-O	ALU CAP FOR XRAY SHOCK BODY - ORANGE		

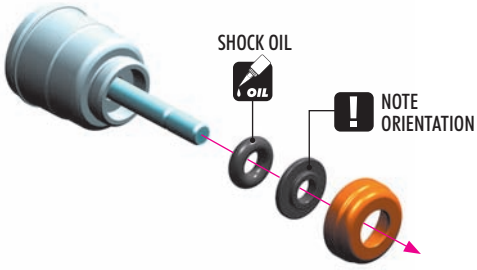
965023
C 2.3

4x

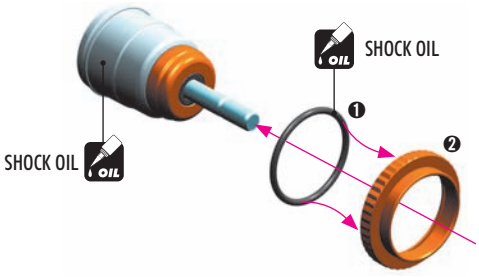


4x



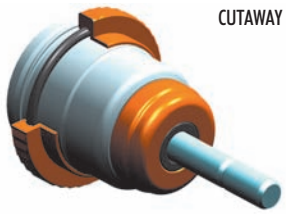


4x



DETAIL

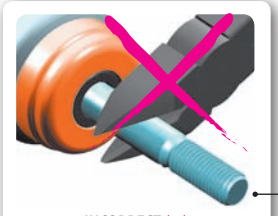
CUTAWAY VIEW

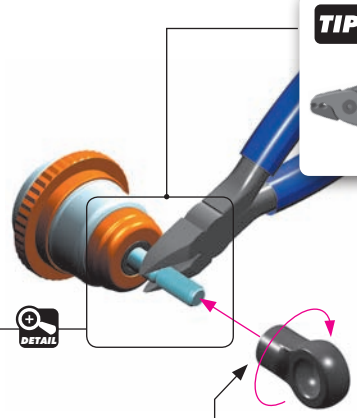


Be careful not to cross-thread the collar on the shock body.

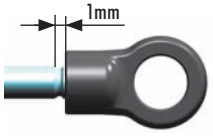
4x

TIP #183011
HUDY RC SHOCK-PLIER UNI TOOL





DETAIL 4x

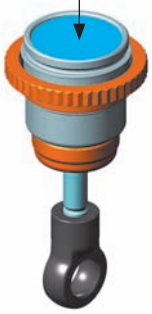


INITIAL SETTING

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

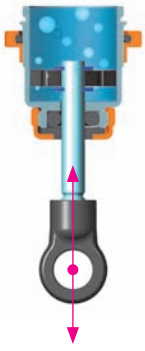
4x

OIL 400cSt



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.

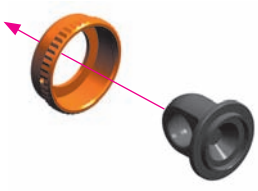


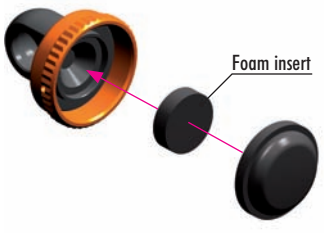
OPTION

INCLUDED

HUDY SHOCK OILS (50ml)			
#106310	100cSt	#106355	550cSt
#106315	150cSt	#106360	600cSt
#106320	200cSt	#106365	650cSt
#106325	250cSt	#106370	700cSt
#106330	300cSt	#106375	750cSt
#106335	350cSt	#106380	800cSt
#106340	400cSt	#106390	900cSt
#106345	450cSt	#106410	1000cSt
#106350	500cSt	#106420	2000cSt

4x





DETAIL

CUTAWAY VIEW

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

6. SHOCK ABSORBERS

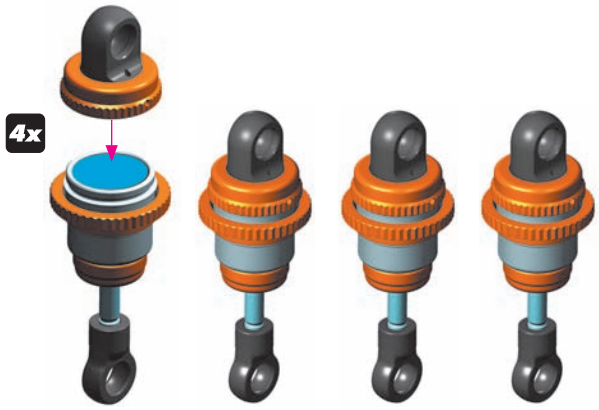
SET-UP BOOK
SHOCK DAMPING

❶ When installing the shock cap assembly on the shock body, some oil will leak out... this is normal.

❷ Tighten the cap and clean off any excess oil.

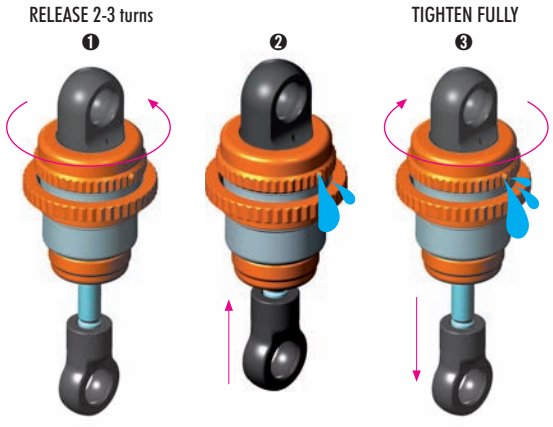
❸ After the shock is assembled, the shock rod will push itself out of the shock body fairly quickly.

❹ Follow the next procedure to adjust the rebound.



4x

REBOUND ADJUSTMENT



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

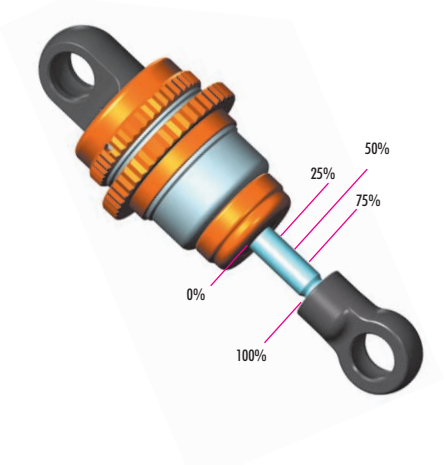
❶ Release the shock cap by 2-3 turns.

❷ Push the shock shaft fully up. For the first time the extra oil will release through the hole in the alu cap-nut.

❸ Tighten the shock cup. When tightening the shock cap, extra oil will again release through the hole in the alu cap - nut. When tightening, the shock shaft will push out from the shock body.

4x

REBOUND CHECK



REBOUND CHECK:

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

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

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

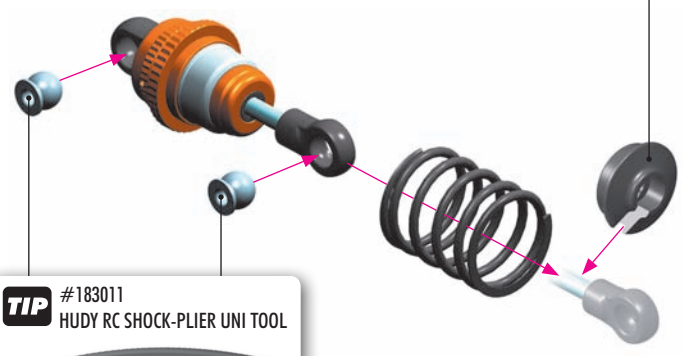
4x

SHOCK LENGTH ADJUSTMENT:

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

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

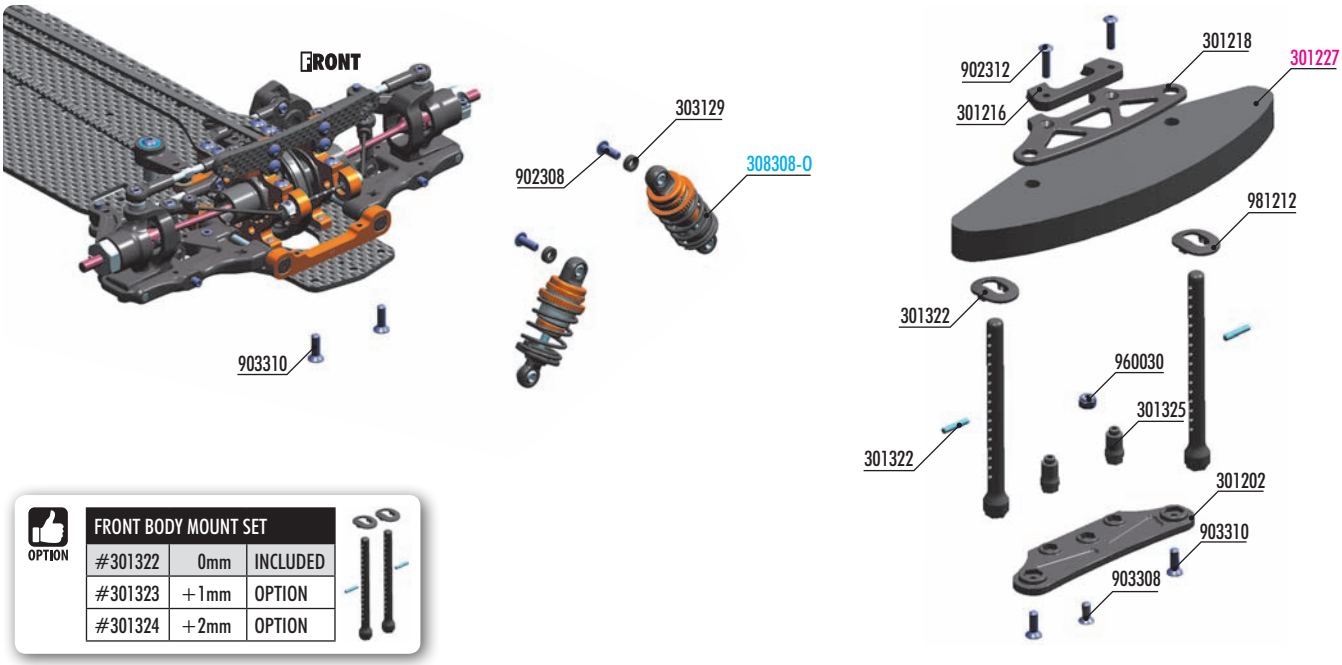
OPTION #308031-0
ALU XRAY SHOCK SPRING RETAINING COLLAR - ORANGE (4)



TIP #183011
HUDY RC SHOCK-PLIER UNI TOOL

ASSEMBLY VIEW

SET-UP BOOK
SHOCK DAMPING
SPRING RATE SELECTION

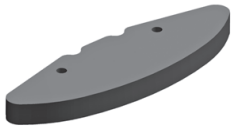


OPTION

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

OPTION #301203
IMPACT-ABSORBING BUMPER

OPTION #301228
T4 FOAM BUMPER WIDE - HARD

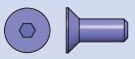


OPTION #301213
GRAPHITE UPPER HOLDER FOR BUMPER 2.5MM

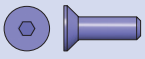
OPTION #301351-O
ALU ADJUSTABLE BODY POST STOP (2)

BAG 07

30 1202	COMPOSITE BUMPER
30 1216	COMPOSITE BUMPER UPPER HOLDER BRACE
30 1218	COMPOSITE UPPER HOLDER FOR BUMPER
30 1322	FRONT BODY MOUNT SET
30 1325	T4 COMPOSITE BRACE FOR BUMPER - LOW (2)
30 3129	COMPOSITE SET OF WHEELBASE SHIMS (3x1MM; 1x2MM) (2)
90 2308	HEX SCREW SH M3x8 (10)
90 2312	HEX SCREW SH M3x12 (10)
90 3308	HEX SCREW SFH M3x8 (10)
90 3310	HEX SCREW SFH M3x10 (10)
96 0030	NUT M3 (10)
98 1212	PIN 2x12 (10)
30 1227	T4 FOAM BUMER - LIGHT & STRONG
30 8308-O	ULP ALU SHOCK ABSORBER-SET - ORANGE (2)

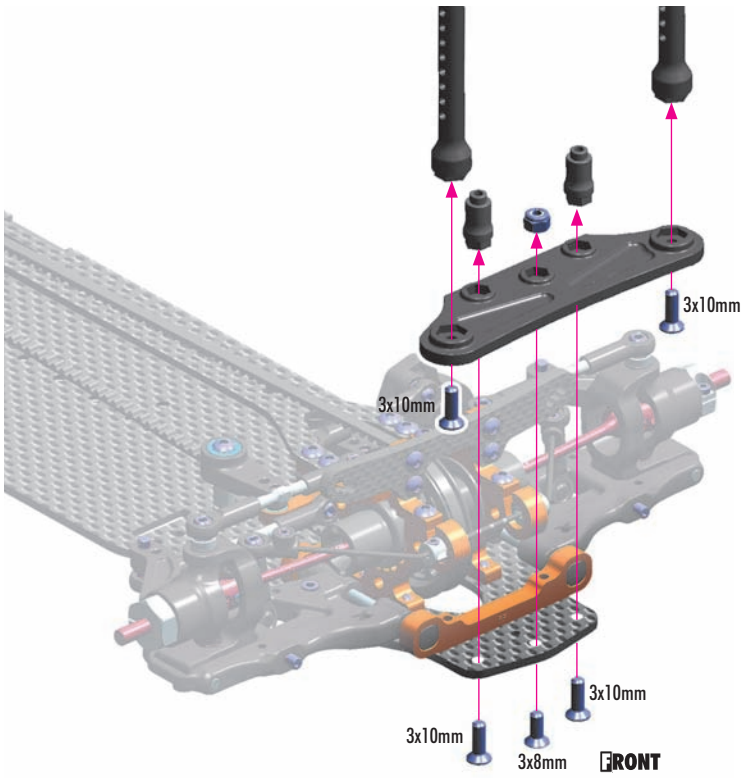


903308
SFH M3x8



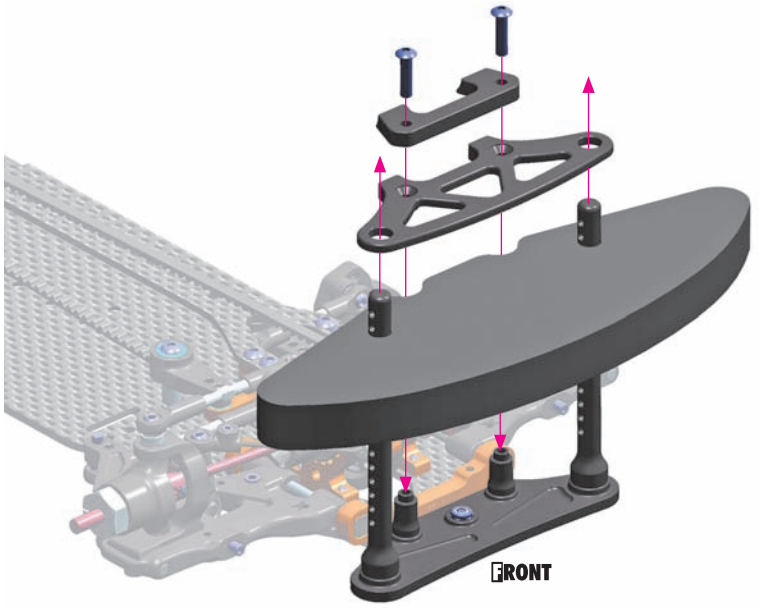
903310
SFH M3x10

960030
N M3



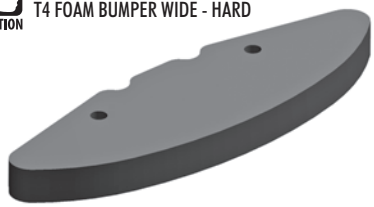
OPTION #301203
IMPACT-ABSORBING BUMPER

902312
SH M3x12



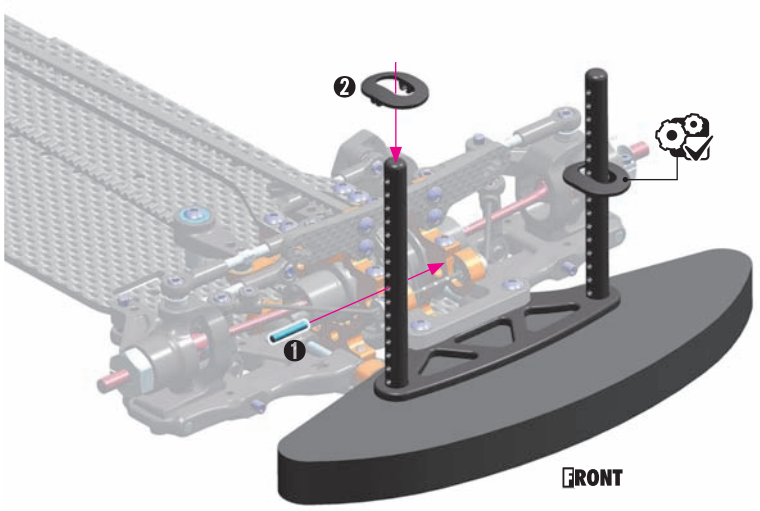
OPTION #301213
GRAPHITE UPPER HOLDER FOR BUMPER 2.5MM

OPTION #301228
T4 FOAM BUMPER WIDE - HARD



981212
P 2x12

2x L=R

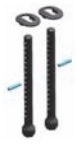


OPTION #301351-0
ALU ADJUSTABLE BODY POST STOP (2)

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

OPTION

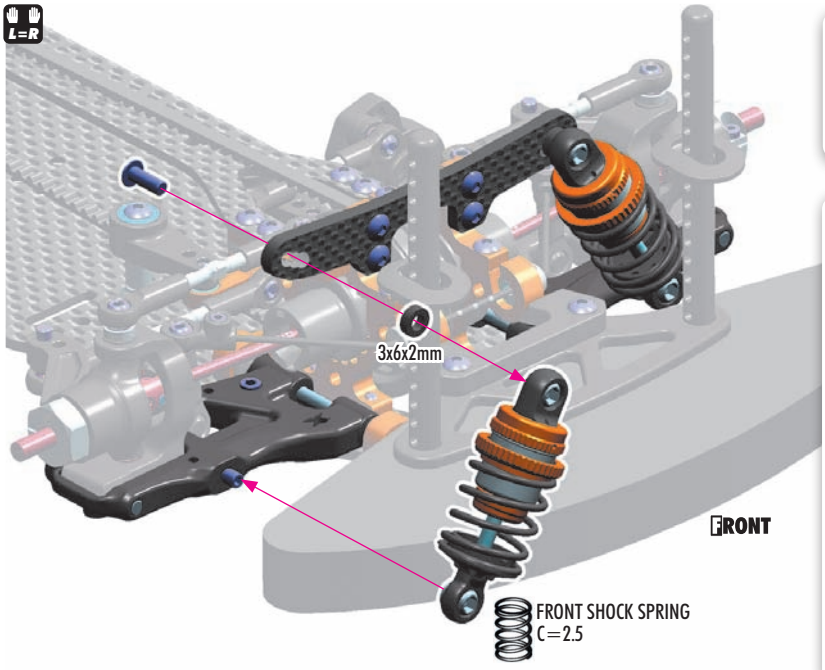
FRONT BODY MOUNT SET		
#301322	0mm	INCLUDED
#301323	+1mm	OPTION
#301324	+2mm	OPTION



902308
SH M3x8

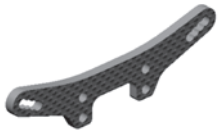
303129
SHIM 3x6x2

L=R



INITIAL SETTING

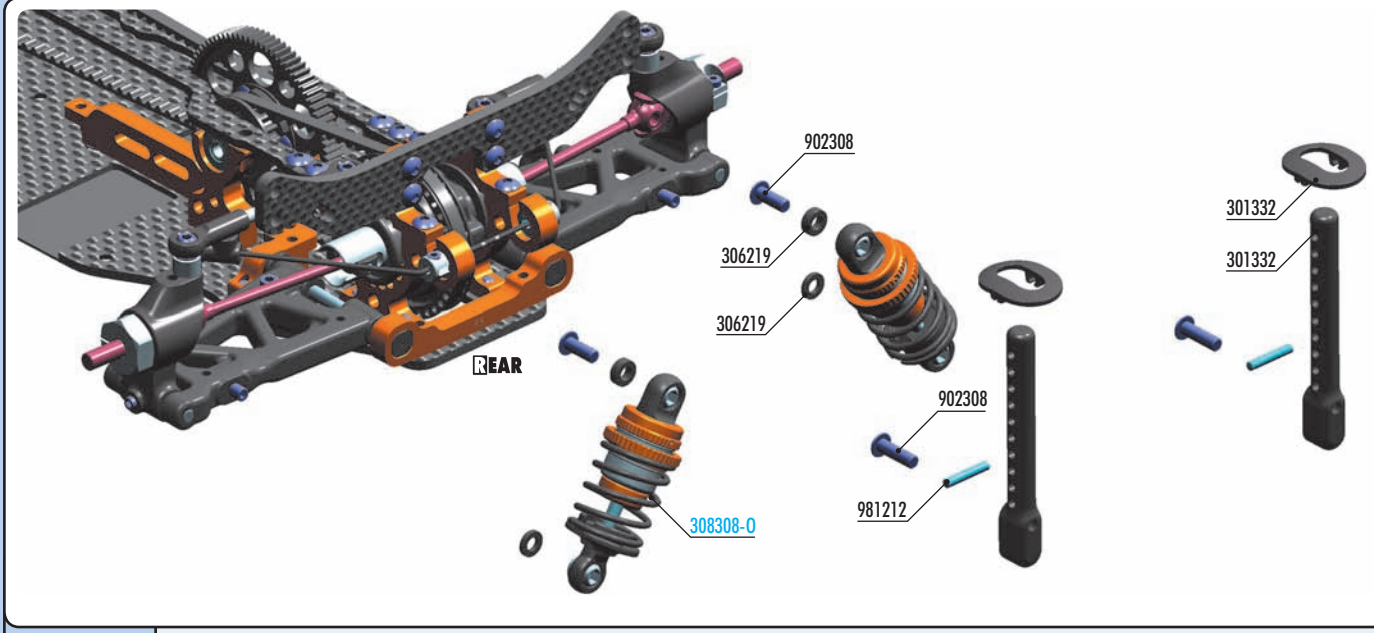
OPTION #302085
T4 SHOCK TOWER FRONT 3.0MM GRAPHITE



OPTION #308307-0
XRAY T4 ALU SHOCK ABSORBER-SET - ORANGE (2)

For some very specific racing conditions like extremely low traction, the shocks with shock towers from previous T4 cars will fit onto T4'18 and are available as an option.

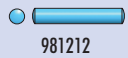
SET-UP BOOK
SHOCK POSITION
RIDE HEIGHT
DROOP

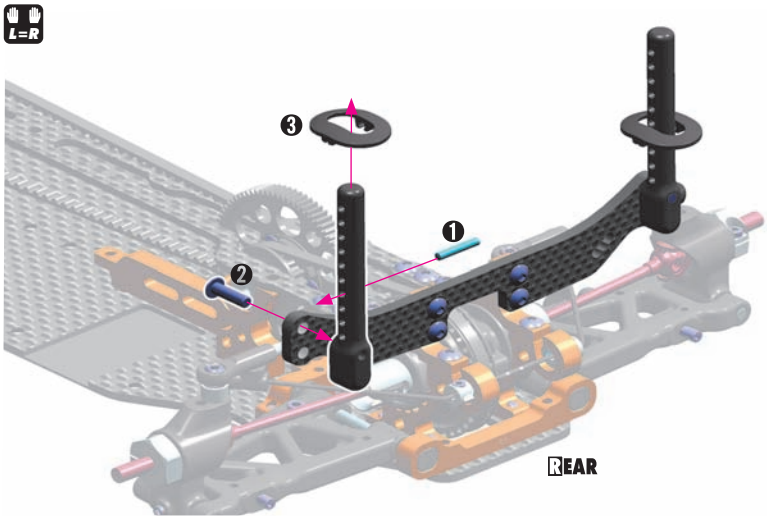


BAG 07

30 1332	REAR BODY MOUNT SET	90 2308	HEX SCREW SH M3x8 (10)
30 6219	COMPOSITE SET OF SERVO SHIMS (4)	98 1212	PIN 2x12 (10)
		30 8308-O	ULP ALU SHOCK ABSORBER-SET - ORANGE (2)


902308
SH M3x8


981212
P 2x12

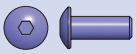


OPTION
#301351-O
ALU ADJUSTABLE BODY POST STOP (2)

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

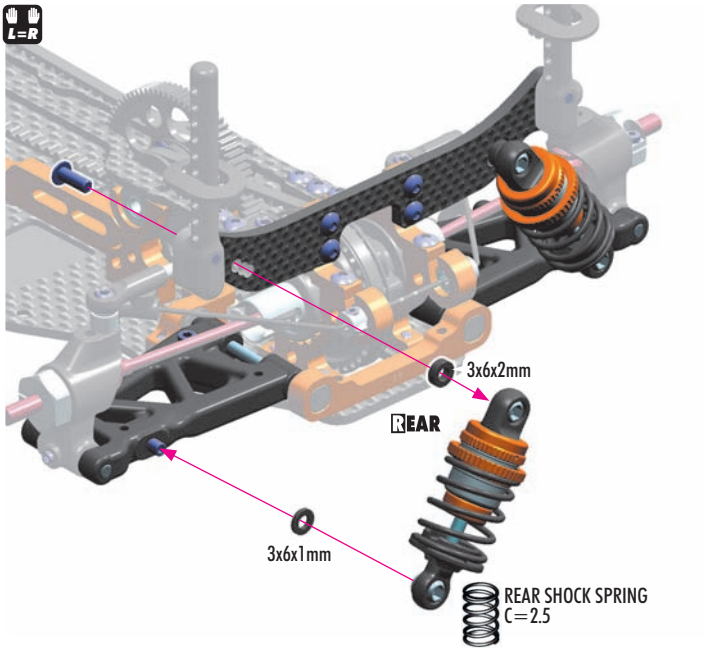
OPTION

REAR BODY MOUNT SET		
#301332	0mm	INCLUDED
#301333	+1mm	OPTION
#301334	+2mm	OPTION


902308
SH M3x8


306219
SHIM 3x6x2


306219
SHIM 3x6x3



INITIAL SETTING

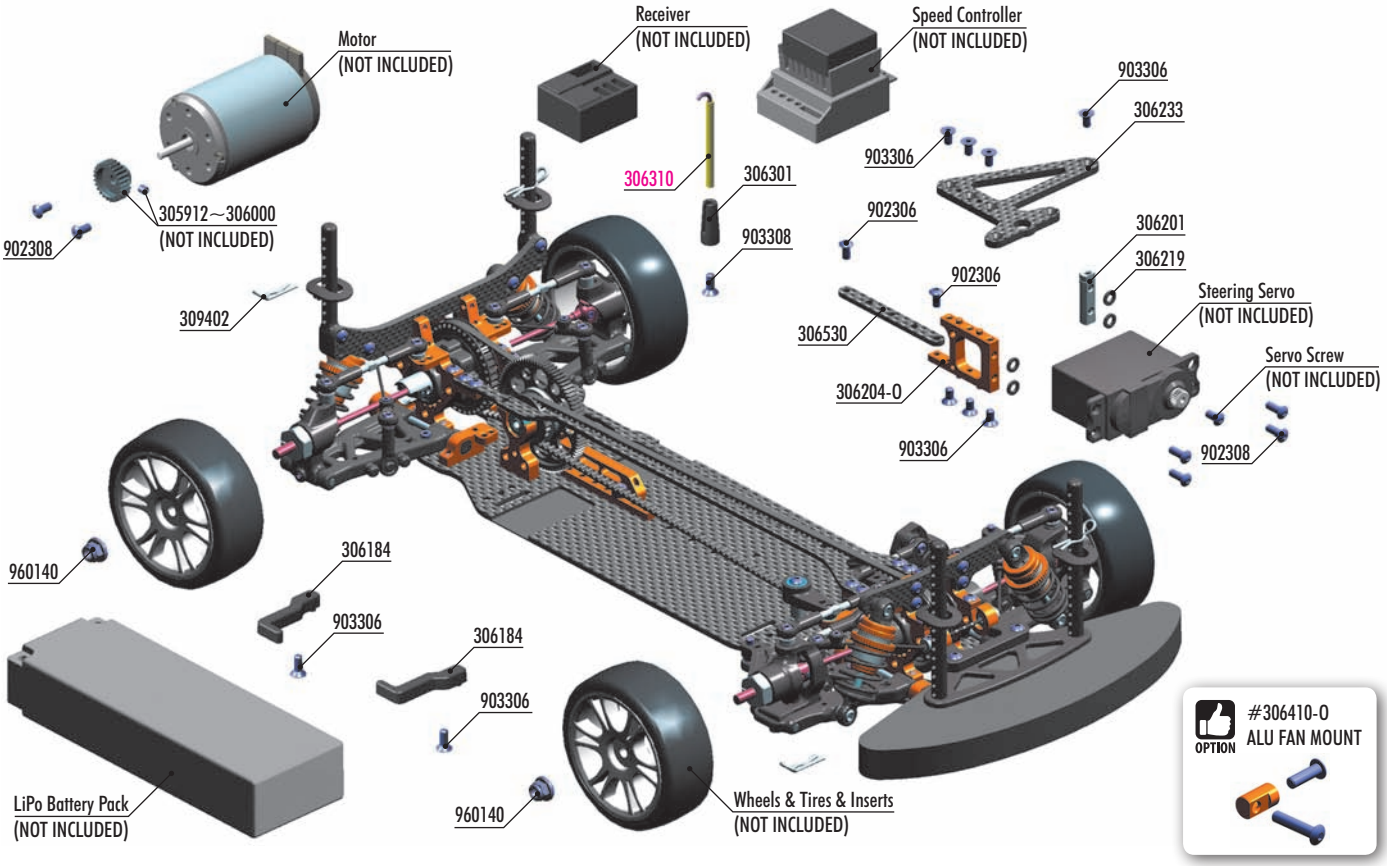
OPTION
#303086
T4 SHOCK TOWER REAR 3.0MM GRAPHITE

OPTION
#308307-O
XRAY T4 ALU SHOCK ABSORBER-SET - ORANGE (2)

For some very specific racing conditions like extremely low traction, the shocks with shock towers from previous T4 cars will fit onto T4'18 and are available as an option.

SHOCK POSITION
RIDE HEIGHT
DROOP

7. FINAL ASSEMBLY



OPTION #306410-O
ALU FAN MOUNT

OPTION #306191
T4 GRAPHITE + ALU FULLY ADJUSTABLE BATTERY HOLDER

OPTION #306194
T4 GRAPHITE + BRASS FULLY ADJUSTABLE BATTERY HOLDER

OPTION #309855
BRASS BATTERY BACKSTOP

OPTION #306531
BRASS CHASSIS STIFFENER

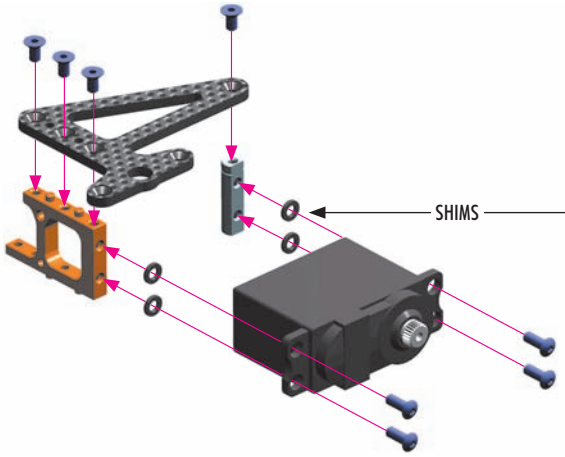
OPTION #306165
GRAPHITE BATTERY STRAP

OPTION #306186
ALU LIPO BATTERY BACKSTOPS (F+R)

OPTION #303061
GRAPHITE MOTOR GUARD

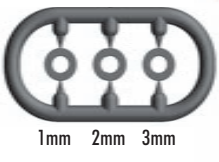
BAG 07

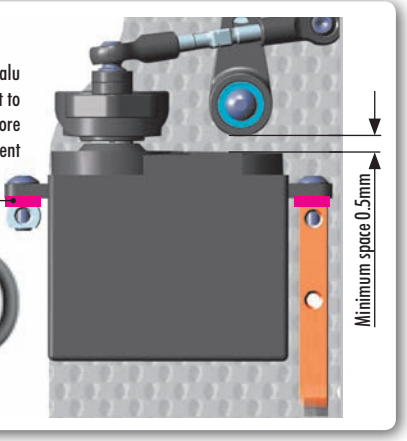
305912~306000	NARROW PINION GEAR ALU HARD COATED (OPTION)	30 9402	BODY CLIP FOR 6MM BODY POST (4)
30 6184	LONG COMPOSITE LIPO BATTERY BACKSTOP (1+1)	90 2306	HEX SCREW SH M3x6 (10)
30 6201	ALU SERVO MOUNT - LONG	90 2308	HEX SCREW SH M3x8 (10)
30 6204-O	T4'17 ALU SERVO MOUNT - ORANGE	90 3306	HEX SCREW SFH M3x6 (10)
30 6219	COMPOSITE SET OF SERVO SHIMS (4)	90 3308	HEX SCREW SFH M3x8 (10)
30 6301	ANTENNA MOUNT - THIN	96 0140	NUT M4 WITH FLANGE (10)
30 6233	T4 GRAPHITE FLOATING SERVO HOLDER 3.0MM		
30 6530	T4 GRAPHITE CHASSIS STIFFENER 2.0MM	30 6310	ANTENNA (2)



DETAIL TOP VIEW

Add shims between servo and alu servo mounts in case you want to move the servo (weight) more forward. There are 3 different thickness of shims.



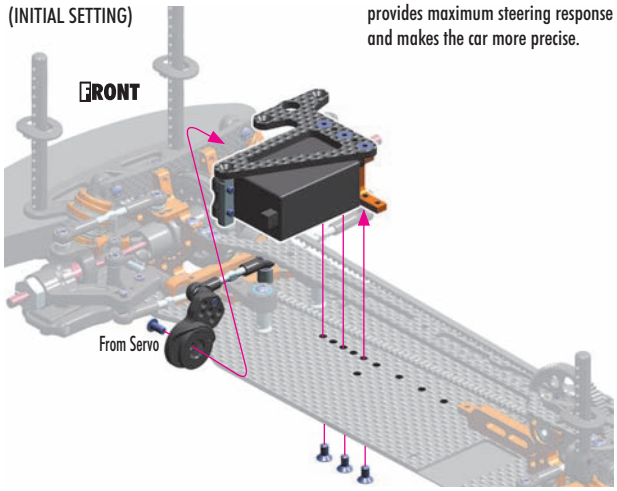


903306
SFH M3x6

ALTERNATIVE 1

STANDARD STEERING ARM MOUNTING
(INITIAL SETTING)

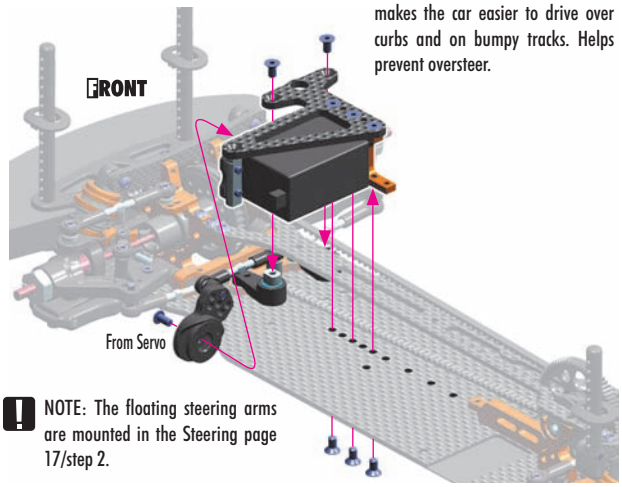
Standard steering mounting system provides maximum steering response and makes the car more precise.



ALTERNATIVE 2

FLOATING STEERING ARM MOUNTING

Floating steering mounting system makes the car easier to drive over curbs and on bumpy tracks. Helps prevent oversteer.

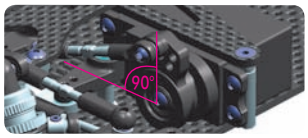


NOTE: The floating steering arms are mounted in the Steering page 17/step 2.

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

IMPORTANT!

When adjusting steering on the radio, we recommend using full steering adjustment in order to get the best steering from the car. It is important to verify that the steering block does not touch the C-hub; that would lead to chassis tweak due to extra servo strain.



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

DETAIL

INLINE FLEX CHASSIS ADJUSTMENT

The inline chassis flex adjustment has a direct effect on the steering characteristics of the car. The more stiff the inline chassis flex is, better steering response and more in-corner steering is generated.

902306
SH M3x6

903308
SFH M3x8

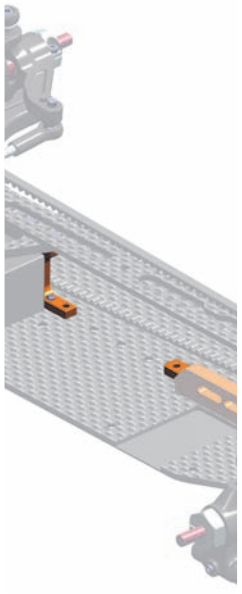
960030
N M3

303123-0
SHIM 3x6x2

306219
SHIM 3x6x2

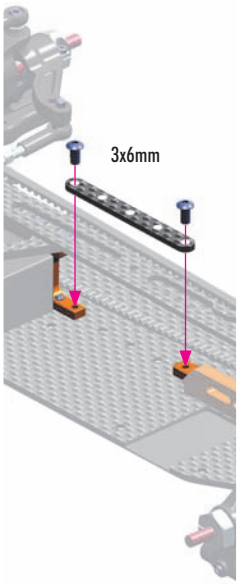
1

INITIAL SETTING



2

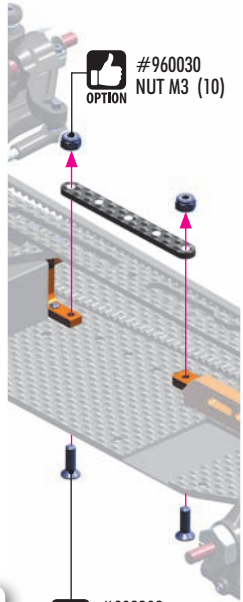
Attach the graphite reinforcement plate from the top so the chassis stays independent from inline chassis flex.



OPTION #306531
BRASS CHASSIS STIFFENER

3

Attach the graphite reinforcement plate from the bottom so the chassis is now part of the inline chassis flex.

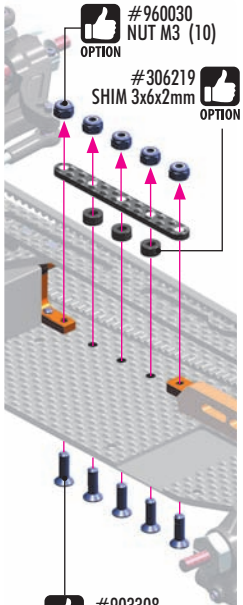


OPTION #960030
NUT M3 (10)

OPTION #903308
HEX SCREW SFH M3x8 (10)

4

Attach the graphite reinforcement plate from the bottom so the chassis is now part of the inline chassis flex and use also extra holes between the servo holder and motor mount for even extra reinforcement



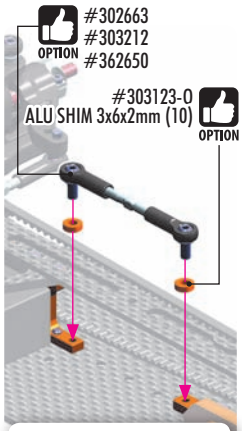
OPTION #960030
NUT M3 (10)

OPTION #306219
SHIM 3x6x2mm

OPTION #903308
HEX SCREW SFH M3x8 (10)

5

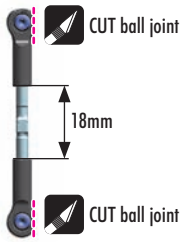
Use the linkage - mounted from the top - for inline chassis reinforcement. By using the linkage, the chassis stays stiff in the inline direction, but flexes to the sides.



OPTION #302663
#303212
#362650

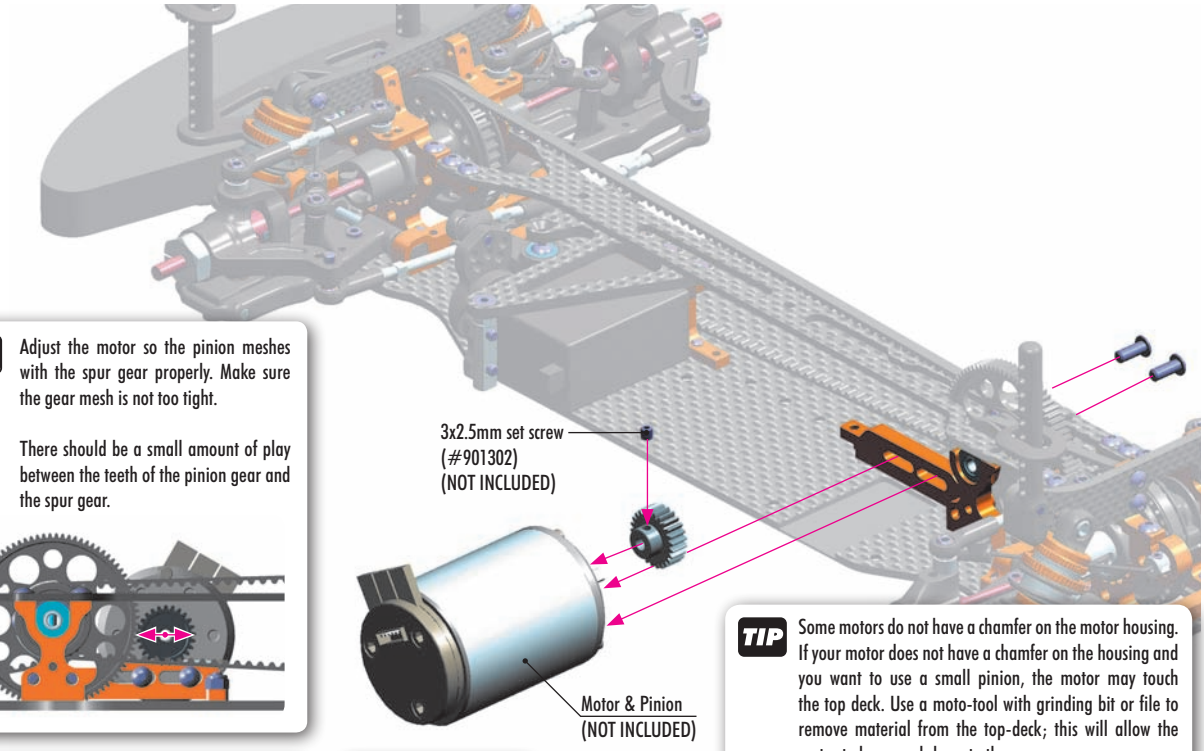
#303123-0
ALU SHIM 3x6x2mm (10)
OPTION

The linkage must move freely



The ball joints must be modified (cutted) in order to prevent ball joints touching the belt.

902308
SH M3x8



DETAIL

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

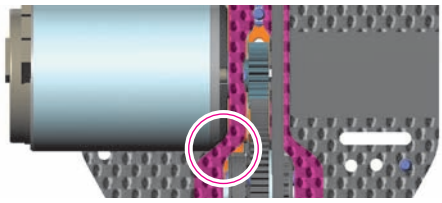
There should be a small amount of play between the teeth of the pinion gear and the spur gear.

3x2.5mm set screw
(#901302)
(NOT INCLUDED)

Motor & Pinion
(NOT INCLUDED)

TIP

Some motors do not have a chamfer on the motor housing. If your motor does not have a chamfer on the housing and you want to use a small pinion, the motor may touch the top deck. Use a moto-tool with grinding bit or file to remove material from the top-deck; this will allow the motor to be moved closer to the spur gear.



OPTION

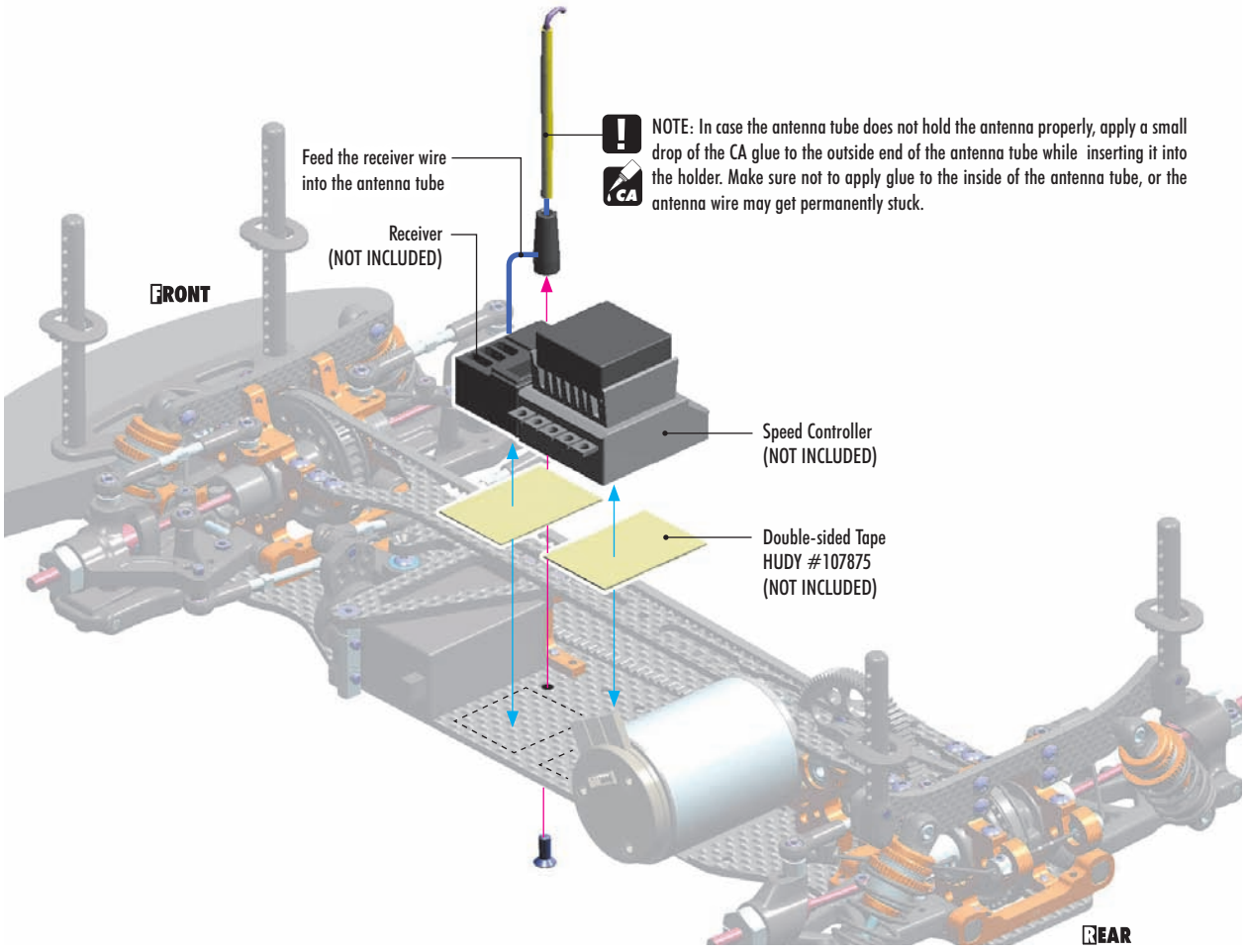
#303061
GRAPHITE MOTOR GUARD

OPTION

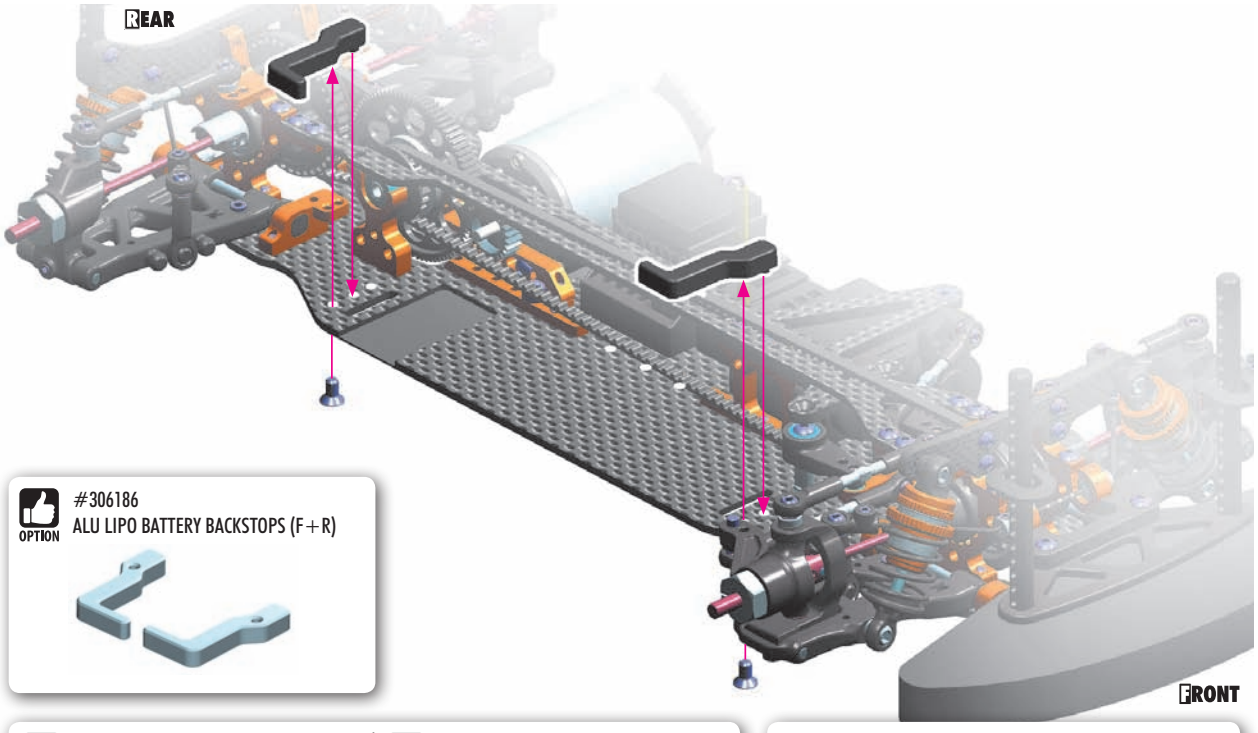
#306410-0
ALU FAN MOUNT

SET-UP BOOK
GEARING ADJUSTMENT

903308
SFH M3x8

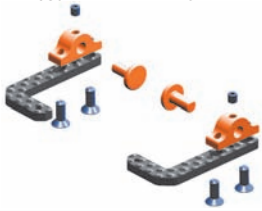


903306
SFH M3x6

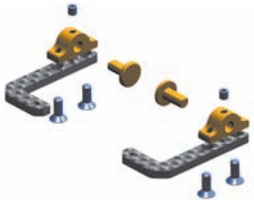


OPTION #306186
ALU LIPO BATTERY BACKSTOPS (F+R)

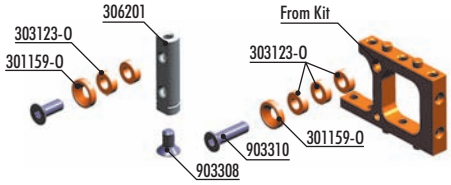
OPTION #306191
T4 GRAPHITE + ALU FULLY ADJUSTABLE BATTERY HOLDER



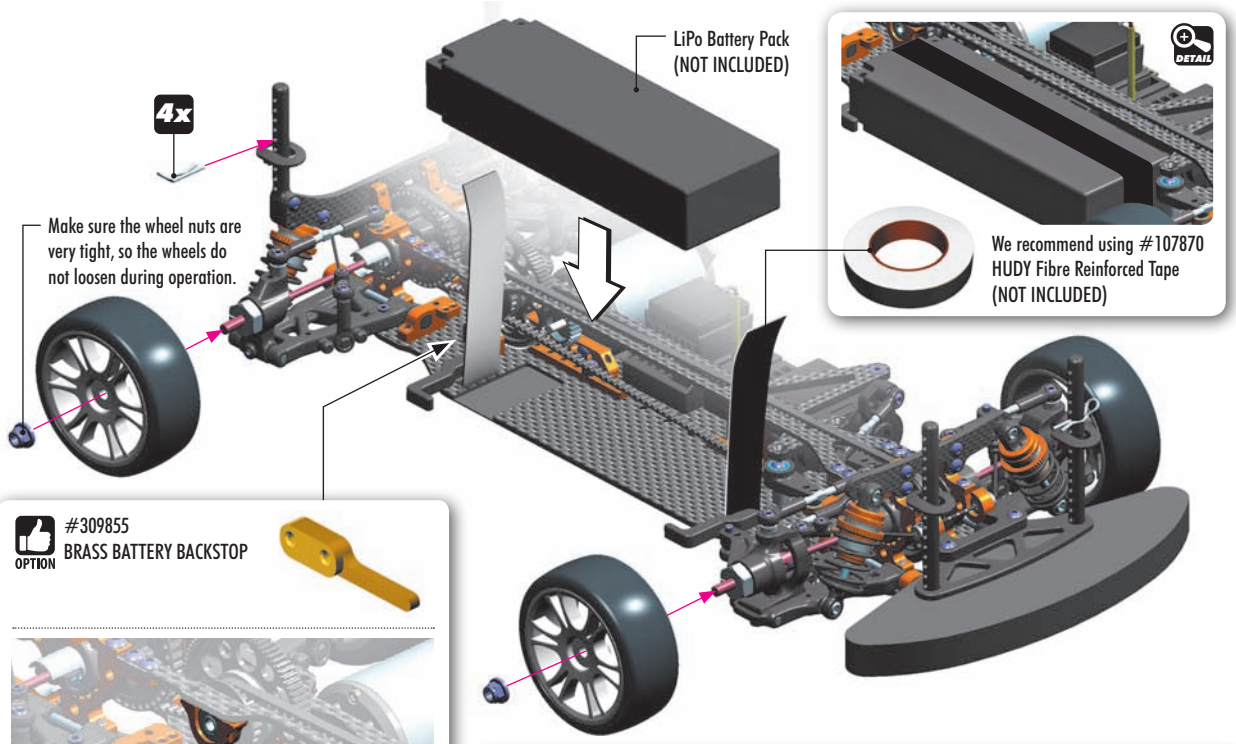
OPTION #306194
T4 GRAPHITE + BRASS FULLY ADJUSTABLE BATTERY HOLDER



TIP Using the optional stand and shims with screw allows adjustment of battery position, which has a direct influence on balance.

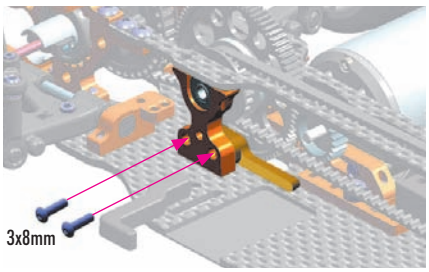


960140
N M4



We recommend using #107870 HUDY Fibre Reinforced Tape (NOT INCLUDED)

OPTION #309855
BRASS BATTERY BACKSTOP



OPTION #306165
GRAPHITE BATTERY STRAP

Designed for LiPo batteries and ensures quick & easy mounting of the battery pack into the car. Depending on the LiPo battery height, additional shims may have to be mounted below the stands.

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