

1/10 LUXURY NITRO TOURING CAR

XRAY NT1



INSTRUCTION MANUAL
XRAY NT1'23

BEFORE YOU START

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

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

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

carefully and fully understand the instructions before beginning assembly.

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

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

XRAY Europe

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Email: info@teamxray.com

XRAY USA

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Irving, TX 75062
USA
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Fax: (214) 744-2401
Email: xray@rcamerica.com

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

SAFETY PRECAUTIONS

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

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 - NITRO ENGINES

- Always test the brakes and the throttle before starting your engine to avoid losing control of the model.
- Make sure the air filter is clean and oiled.
- Never run your engine without an air filter. Your engine can be seriously damaged if dirt and debris get inside the engine.
- For proper engine break-in, please refer to the manual that came with the engine.
- Do not run near open flames or smoke while running your model or while handling fuel.
- Some parts will be hot after operation. Do not touch the exhaust or the engine until they have cooled. These parts may reach 275°F during operation!

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 R/C 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.

IMPORTANT NOTES - NITRO FUEL

- Handle fuel only outdoors. Never handle nitro fuel indoors, or mix nitro fuel in a place where ventilation is bad.
- Only use nitro fuel for R/C models. Do not use gasoline or kerosene in R/C models as it may cause a fire or explosion, and ruin your engine.
- Nitro fuel is highly flammable, explosive, and poisonous. Never use fuel indoors or in places with open fires and sources of heat.
- Always keep the fuel container cap tightly shut.
- Always read the warning label on the fuel container for safety information.
- Nitro-powered model engines emit poisonous vapors and gasses. These vapors irritate eyes and can be highly dangerous to your health. We recommend wearing rubber or vinyl gloves to avoid direct contact with nitro fuel.
- Nitro fuel for RC model cars is made of the combination of the methyl alcohol,

castor or synthetic oil, nitro methane etc. The flammability and volatility of these elements is very high, so be very careful during handling and storage of nitro fuel.

- Keep nitro fuel away from open flame, sources of heat, direct sunlight, high temperatures, or near batteries.
- Store fuel in a cool, dry, dark, well-ventilated place, away from heating devices, open flames, direct sunlight, or batteries. Keep nitro fuel away from children.
- Do not leave the fuel in the carburetor or fuel tank when the model is not in use. There is danger that the fuel may leak out.
- Wipe up any spilled fuel with a cloth.
- Be aware of spilled or leaking fuel. Fuel leaks can cause fires or explosions.
- Do not dispose of fuel or empty fuel containers in a fire. There is danger of explosion.

R/C & BUILDING TIPS

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

- Ask your local hobby shop for any advice.

Please support your local hobby shop. We at XRAY Model Racing Cars support all local hobby dealers. Therefore we ask you, if at all possible, to purchase XRAY products at your hobby dealer and give them your support like we do. If you have difficulty finding XRAY products, please check out www.teamxray.com to get advice, or contact us via email at info@teamxray.com, or contact the XRAY distributor in your country.

WARRANTY

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

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will not cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This includes but is not limited to damage from

crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the integrity of components. Warranty will not cover components that are considered consumable on RC vehicles. XRAY does not pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

Limitations of Liability

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

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

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

QUALITY CERTIFICATE

XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newly-purchased kit are manufactured with the highest regard to quality. However, due to the many factors inherent in model racecar competition, we cannot guarantee any

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

In line with our policy of continuous product development, the exact specifications of the kit may vary. In the unlikely event of any problems with your new kit, you should contact the model shop where you purchased it, quoting the part number. We do reserve all rights to change any specification without prior notice. All rights reserved.

SYMBOLS USED

Apply threadlock	Ensure smooth non-binding movement	Detail	Assemble in the specified order	Part bags used
Apply oil	Cut off remaining material	Pay attention here	Assembly view	Assemble left and right sides the same way
Apply grease	Assemble as many times as specified	Follow tip here	Optional parts	Number of teeth

TOOLS REQUIRED

Combination Pliers
(HUDY #189020)

Side Cutters
(HUDY #189010)

Pocket Hobby Knife (HUDY #188981)

Cross Wrench 3mm (HUDY #107581)

HUDY Ball Joint Wrench
(HUDY #181110)

Clutch Spring Tool (HUDY #182005)

Turnbuckle Wrench 3mm
(HUDY #181030)

Special Tool for turnbuckles, nuts (HUDY #181090)

Tweezers

Scissors (HUDY #188990)

Pinion Tool Set (XRAY #339901)

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

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

Ball Allen Wrench 2.0mm (#132045 - HUDY EXCLUSIVE Limited Edition)

Allen Wrench 2.5mm (#112545 - HUDY EXCLUSIVE Limited Edition)

Ball Allen Wrench 2.5mm (#132545 - HUDY EXCLUSIVE Limited Edition)

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

Arm Reamer 3.0mm (#107643 - HUDY EXCLUSIVE Limited Edition)

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

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

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

Slotted Screwdriver 4.0mm (#154055 - HUDY EXCLUSIVE Limited Edition)

Caster Clip Remover (#107612 - HUDY EXCLUSIVE Limited Edition)

Reamer (#107602 - HUDY EXCLUSIVE Limited Edition)

Flywheel/Clutch Multi-Tool (HUDY #182010)

Professional Multi Tool
(HUDY #183011)

EQUIPMENT INCLUDED

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

600cSt (#106360)
HUDY Premium Silicone Oils



Silicone Diff Oil
(HUDY #106560 60.000cSt)



Silicone Diff Oil
(HUDY #106630 300.000cSt)



(HUDY #106210)
Premium Graphite Grease



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.

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 at our Website at 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 up-to-date version.

EQUIPMENT REQUIRED

Transmitter & Receiver



Engine
(FX T300 #630100)



Exhaust & Manifold - Set
(FX #639550)



Starter Box & Battery Pack
(HUDY #104400)



Glow Plug Igniter



Steering and Throttle Servos



Double-sided Tape
(HUDY #107875)



Lexan™ Paint



Bodyshell



Fuel + Fuel Bottle
(HUDY #104200)



Battery Charger



Receiver Pack



Wheels & Tires



Bearing Oil
(HUDY #106230)



Threadlock



Engine After Run Oil
(HUDY #106250)



One-Way Lube
(HUDY #106231)



Air Filter Oil
(HUDY #106240)



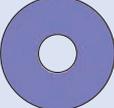
CA glue

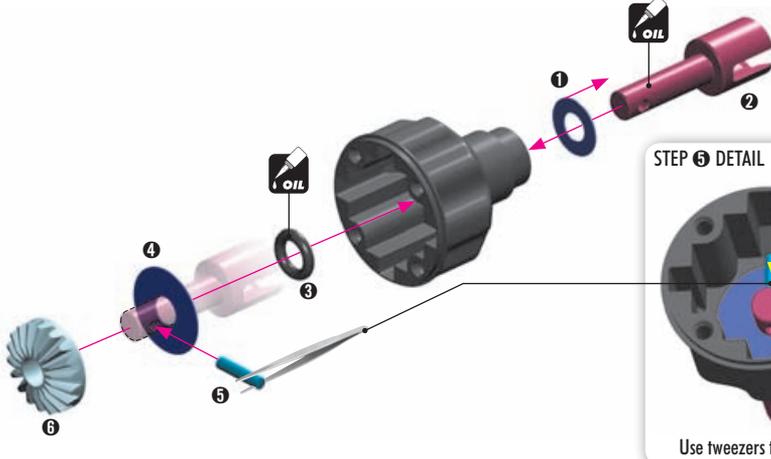


Tire Truer
(HUDY #102003)

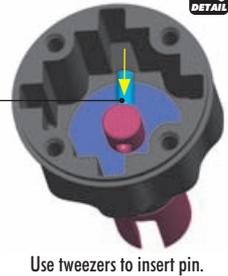


1. FRONT GEAR DIFFERENTIAL & SOLID AXLE

-  962051
S 5x10x0.2
-  964050
S 5x15x0.3
-  972050 0 5x2
980210 P 2x10

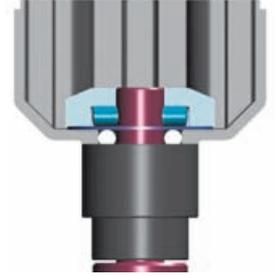


STEP 6 DETAIL



Use tweezers to insert pin.

CUTAWAY VIEW



Silicone oil 300.000cSt 



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

Remove the nozzle of the bottle to allow easy filling of the diff. 

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

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



12.70g

① Put the diff (without oil) on the scale and check the weight (approximately 12.70g).

Silicone oil 300.000cSt



14.70g

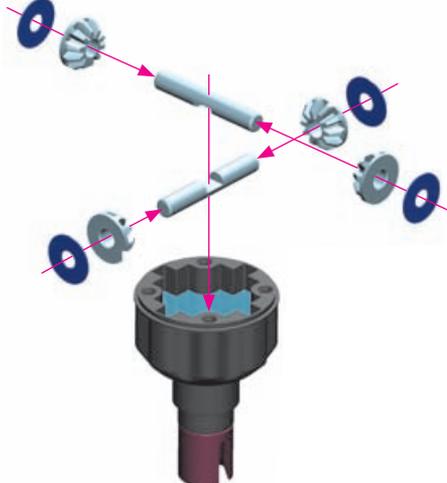
② Slowly pour oil into the diff and watch the weight. Add 2.0g of oil into the diff. The approximate weight of the diff including oil is 14.70g.

$12.70g + 2.0g = 14.70g$

-  964031
S 3.5x10x0.2



①



 #335081
ALU DIFFERENTIAL PIN - HARDCOATED (2)



②



Push down

Rotate

③

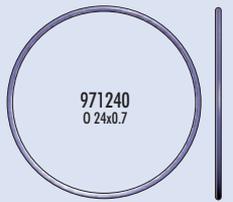


Wait approx. 5min

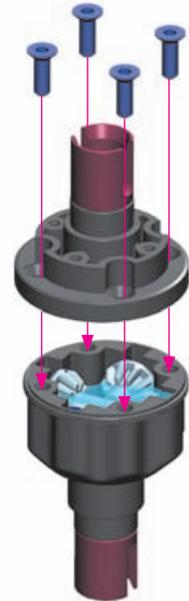
 #104002
HUDY AIR VAC – VACUUM PUMP



1. FRONT GEAR DIFFERENTIAL & SOLID AXLE



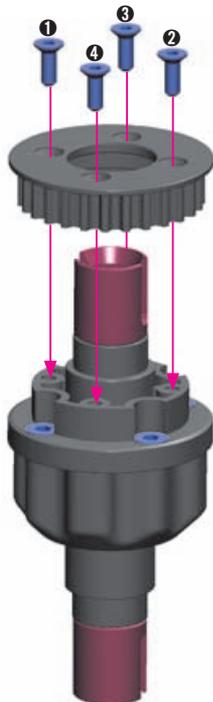
After disassembling the differential, the large O-ring may have an increased size and may be more difficult to re-install. We recommend either replacing the O-ring with a new one or carefully re-inserting the old O-ring in the diff cover.



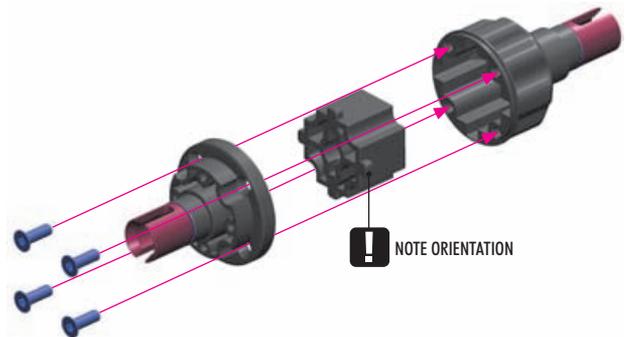
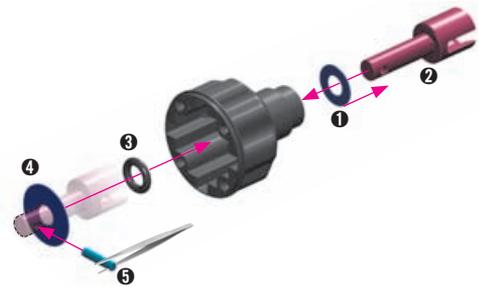
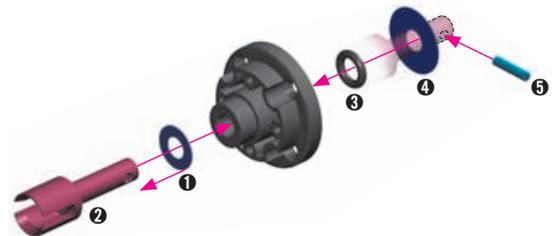
Tighten the screws equally but do NOT tighten them completely.



Finish tightening in this order.



SOLID AXLE



The front diff can be easily changed into a solid axle. Remove the internal gears and replace with the solid axle locking body. DO NOT add silicone oil inside the housing when making a solid axle.

1. REAR GEAR DIFFERENTIAL

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



#335081
OPTION ALU DIFFERENTIAL PIN - HARDCOATED (2)



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



BAG
01.2

335030 DIFF BEVEL & SATELLITE GEARS (2+4)
 335050 REAR GEAR DIFFERENTIAL - SET
 335060 COMPOSITE REAR DIFF. CASE & COVER
 335072 LIGHTWEIGHT DIFF OUTDRIVE ADAPTER - HUDY SPRING STEEL™ (2)
 335080 DIFF PIN (2)

903258 HEX SCREW SFH M2.5x8 (10)
 962051 WASHER S 5x10x0.2 (10)
 964031 WASHER S 3.5x10x0.2 (10)
 964050 WASHER S 5x15x0.3 (10)
 971240 SILICONE O-RING 24x0.7 (10)
 972050 SILICONE O-RING 5x2 (10)
 980210 PIN 2x10 (10)



962051
 S 5x10x0.2



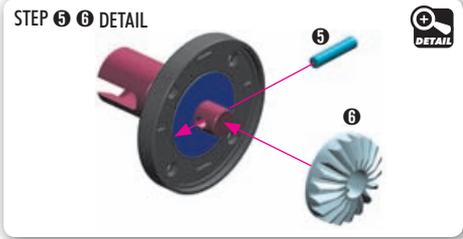
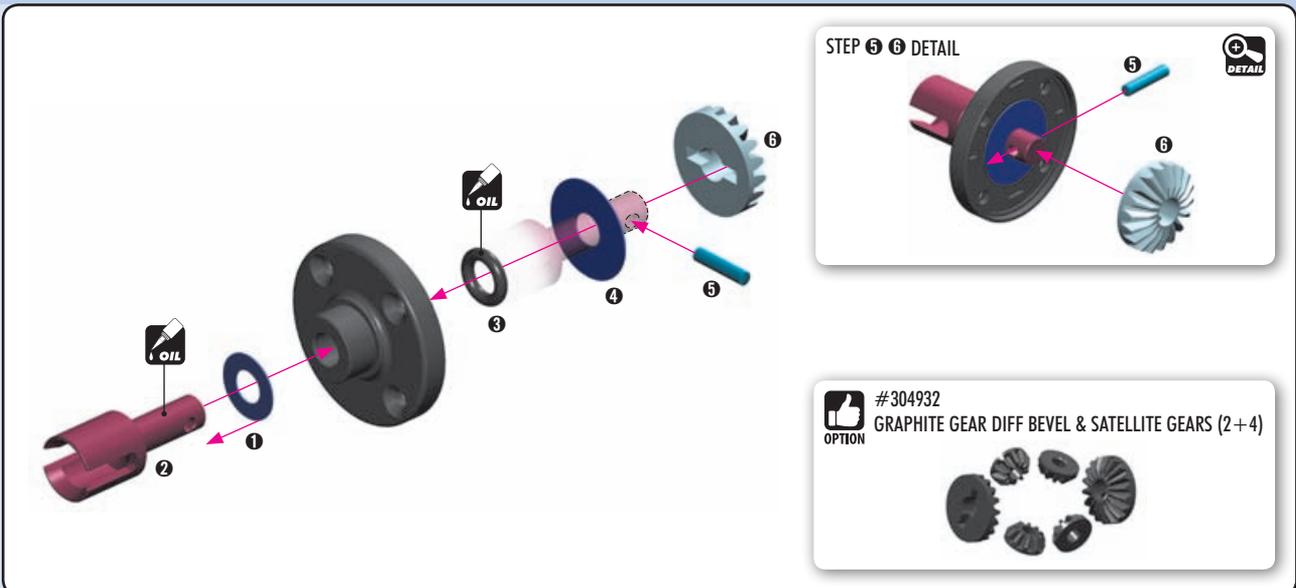
964050
 S 5x15x0.3



972050
 O 5x2



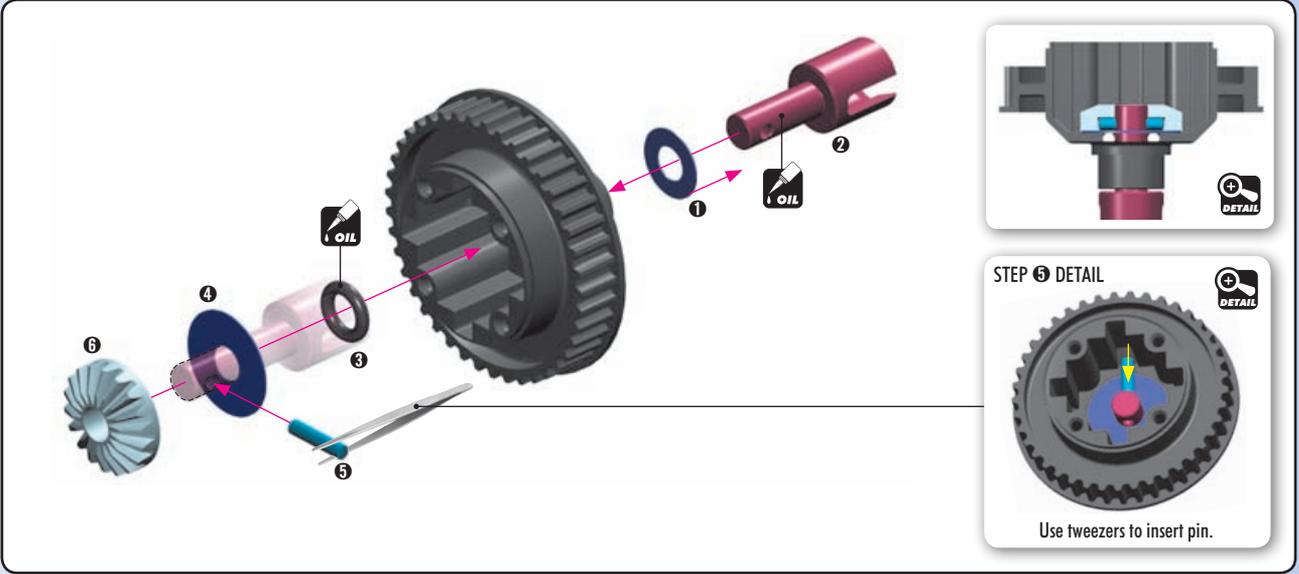
980210
 P 2x10



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

1. REAR GEAR DIFFERENTIAL

-  962051
5.5x10x0.2
-  964050
5.5x15x0.3
-  972050
0.5x2
-  980210
P 2x10



 Silicone oil **60.000cSt**

NET TIP

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

Remove the nozzle of the bottle to allow easy filling of the diff.



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

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



14.70g

Put the diff (without oil) on the scale and check the weight (approximately 14.70g).



14.70g + 2.0g = 16.70g

Silicone oil **60.000cSt**



16.70g

Slowly pour oil into the diff and watch the weight. Add 2.0g of oil into the diff. The approximate weight of the diff including oil is 16.70g.

← 16.70g

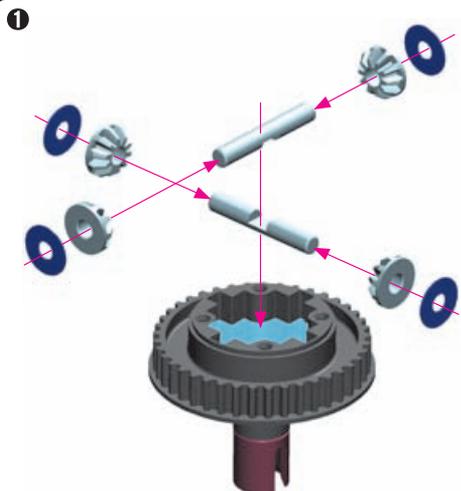
1. REAR GEAR DIFFERENTIAL



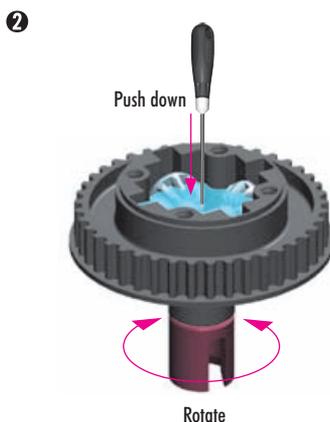
964031
S 3.5x10x0.2



GEAR DIFF ADJUSTMENT



#335081
ALU DIFFERENTIAL PIN - HARDCOATED (2)



Push down

Rotate



Wait approx. 5min



#104002
HUDY AIR VAC - VACUUM PUMP



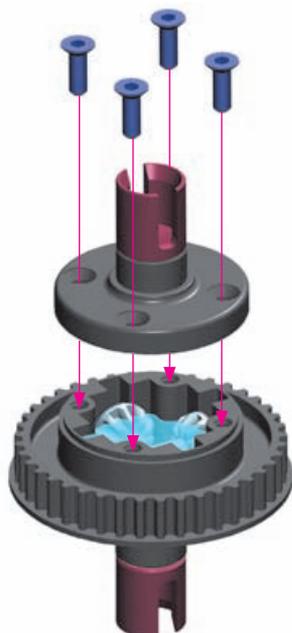
971240
O 24x0.7



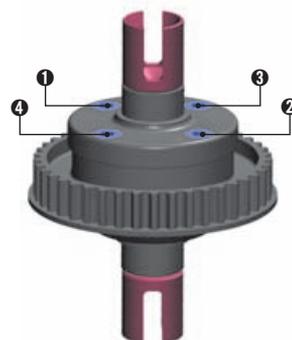
After disassembling the differential, the large O-ring may have an increased size and may be more difficult to re-install. We recommend either replacing the O-ring with a new one or carefully re-inserting the old O-ring in the diff cover.



903258
SFH M2.5x8



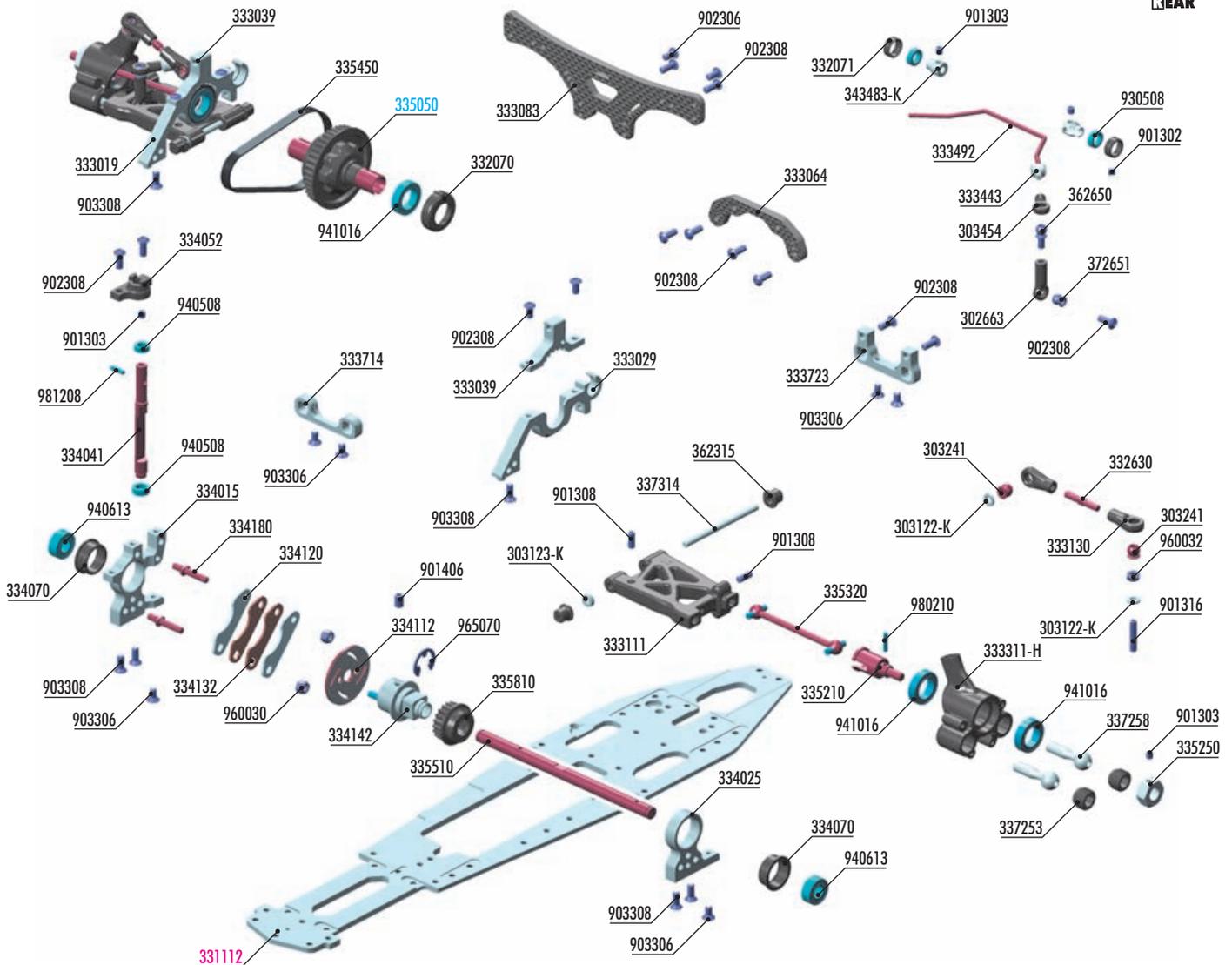
Tighten the screws equally but do NOT tighten them completely.



Finish tightening in this order.

2. REAR SUSPENSION

REAR



BAG

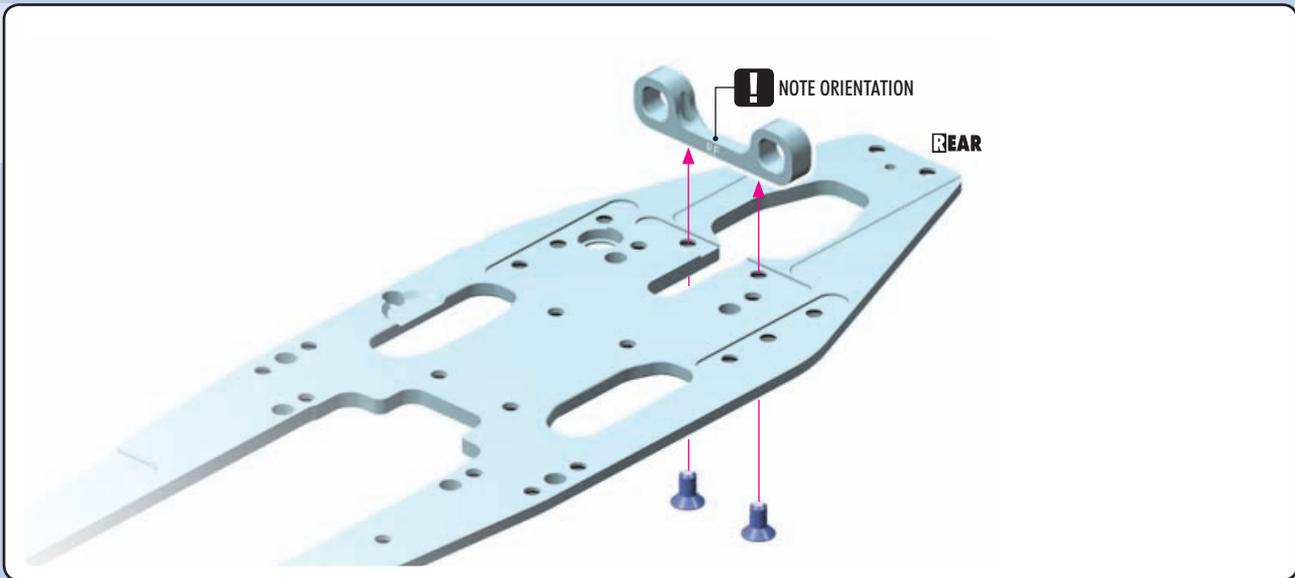
02

302663	COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8)	337258	STEEL PIVOT BALL 8.4 MM ϕ 3.3 L=25MM (2)
303122-K	ALU SHIM 3x6x1.0MM - BLACK (10)	337314	REAR LOWER INNER PIVOT PIN (2)
303123-K	ALU SHIM 3x6x2.0MM - BLACK (10)	343483-K	ALU CUTTED ANTI-ROLL BAR COLLAR ϕ 2.3 - BLACK (2)
303241	BALL UNIVERSAL 5.8 MM HEX (4)	362315	ECCENTRIC BUSHING SET (2)
303454	BALL JOINT 4.9MM - OPEN (4)	362650	BALL END 4.9MM WITH THREAD 6MM (2)
332070	COMPOSITE ADJUST. BALL-BEARING HUB (4)	372651	PIVOT BALL UNIVERSAL 4.9 MM - HUDY SPRING STEEL (2)
332071	COMPOSITE BALL-BEARING HUB (4)		
332630	ADJ. TURNBUCKLE L/R 25 MM - HUDY SPRING STEEL™ (2)	901302	HEX SCREW SB M3x2.5 (10)
333019	ALU LOWER BULKHEAD REAR RIGHT - BLACK - SWISS 7075 T6	901303	HEX SCREW SB M3x3 (10)
333029	ALU LOWER BULKHEAD REAR LEFT - BLACK - SWISS 7075 T6	901308	HEX SCREW SB M3x8 (10)
333039	ALU UPPER CLAMP REAR (L+R) - BLACK - SWISS 7075 T6	901316	HEX SCREW SB M3x16 (10)
333064	GRAPHITE ROLL-CENTER BRIDGE	901406	HEX SCREW SB M4x6 (10)
333083	GRAPHITE SHOCK TOWER REAR	902306	HEX SCREW SH M3x6 (10)
333111	COMPOSITE SUSPENSION ARM REAR LOWER - HARD	902308	HEX SCREW SH M3x8 (10)
333130	COMPOSITE REAR UPPER CAMBER LINK BALL JOINT 5.8 MM (4)	903306	HEX SCREW SFH M3x6 (10)
333311-H	COMPOSITE UPRIGHT REAR FOR AERO DISC - HARD	903308	HEX SCREW SFH M3x8 (10)
333443	ALU ANTI-ROLL BAR COLLAR ϕ 2.2 (2)	930508	BALL-BEARING 5x8x2.5 STEEL SEALED - OIL (2)
333492	ANTI-ROLL BAR FOR BALL-BEARINGS - REAR 2.0 MM	940508	BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
333714	ALU REAR LOWER 1-PIECE SUSPENSION HOLDER - FRONT - BLACK - RF	940613	BALL-BEARING 6x13x5 RUBBER SEALED - OIL (2)
333723	ALU REAR LOWER 1-PIECE SUSPENSION HOLDER - REAR - BLACK - RR	941016	BALL-BEARING 10x16x4 RUBBER SEALED - OIL (2)
334015	ALU BRAKE STAND - BLACK - SWISS 7075 T6	960030	NUT M3 (10)
334025	ALU 2-SPEED HOLDER - BLACK - SWISS 7075 T6 - SET	960032	NUT M3 (10)
334041	BRAKE CAM POST - STEEL	965070	E-CLIP 7 (10)
334052	COMPOSITE BRAKE UPPER PLATE	981208	PIN 2x8 (10)
334070	COMPOSITE 6x13x5 BALL-BEARING HUB (2)	980210	PIN 2x10 (10)
334112	VENTILATED BRAKE DISK - LASER CUT - PRECISION-GROUND		
334120	HARDENED STEEL BRAKE PAD - LASER CUT (2)	335050	REAR GEAR DIFFERENTIAL - SET
334132	BRAKE PAD "SLS" (2)		
334142	ALU LIGHTWEIGHT BRAKE DISK ADAPTER - BLACK - SWISS 7075 T6	331112	CHASSIS 3MM - CNC MACHINED - SWISS 7075 T6
334180	ADJUSTABLE BRAKE PAD GUIDE PIN - HUDY SPRING STEEL™ (2)		
335210	DRIVE AXLE - HUDY SPRING STEEL™		
335250	ALU WHEEL HUB 12MM - BLACK (2)		
335320	DRIVE SHAFT - 60 MM - HUDY SPRING STEEL™		
335450	PUR®-REFINFORCED DRIVE BELT REAR 5.5 x 177 MM		
335510	2-SPEED SHAFT - V2		
335810	COMPOSITE BELT PULLEY 20T - 2-SPEED-CENTER		
337253	COMPOSITE ADJUSTING NUT M10x1 WITH BALL CUP (4)		

2. REAR SUSPENSION



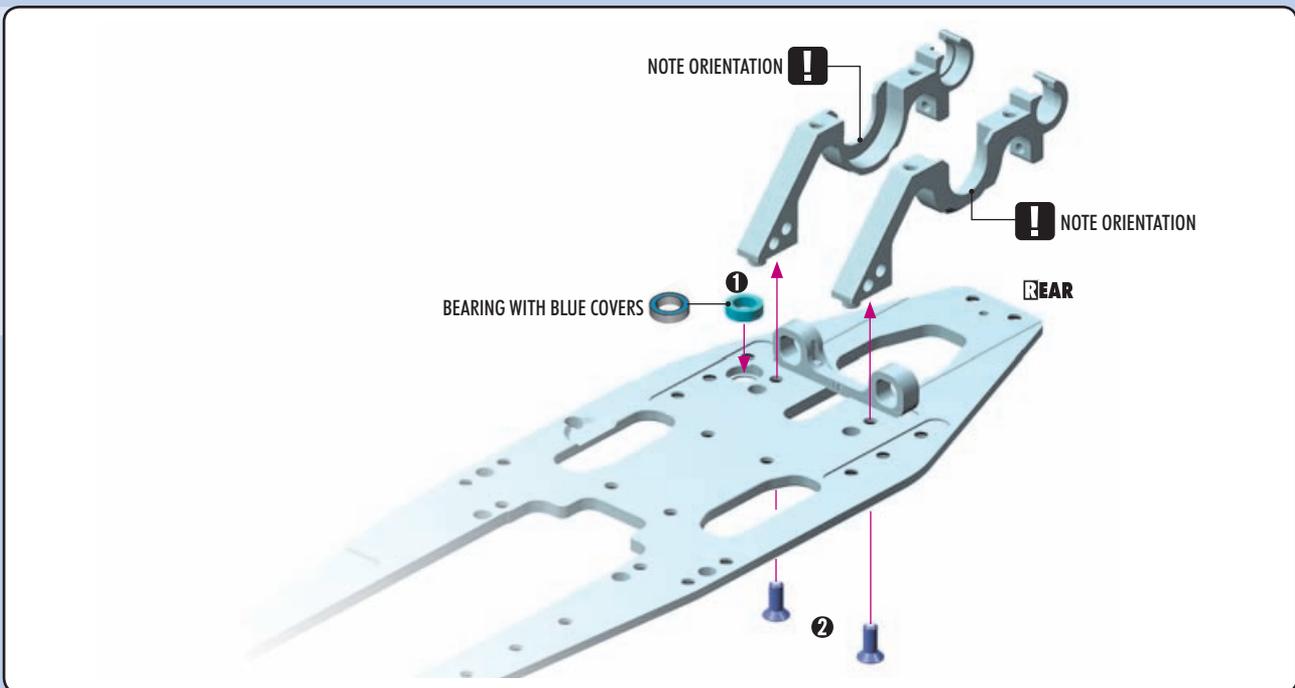
903306
SFH M3x6



903308
SFH M3x8

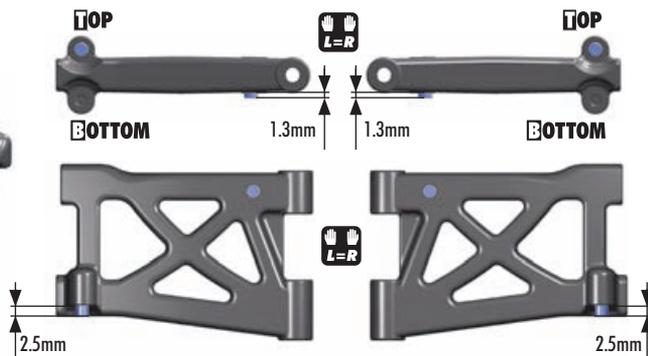
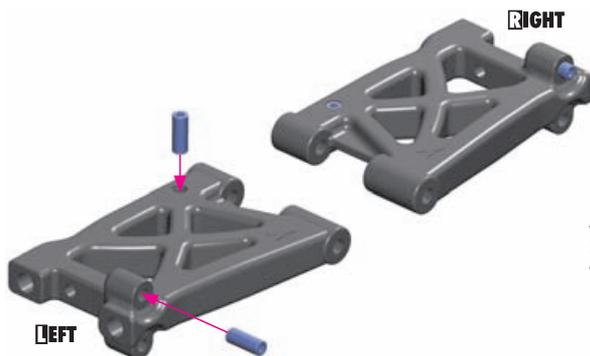


940508
BB 5x8x2.5



901308
SB M3x8

2x REAR ARMS



REAR DOWNSTOP
ADJUSTMENT



REAR SUSPENSION ARMS

#333110	MEDIUM	OPTION
#333111	HARD	INCLUDED
#333111-G	GRAPHITE	OPTION



2. REAR SUSPENSION



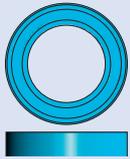
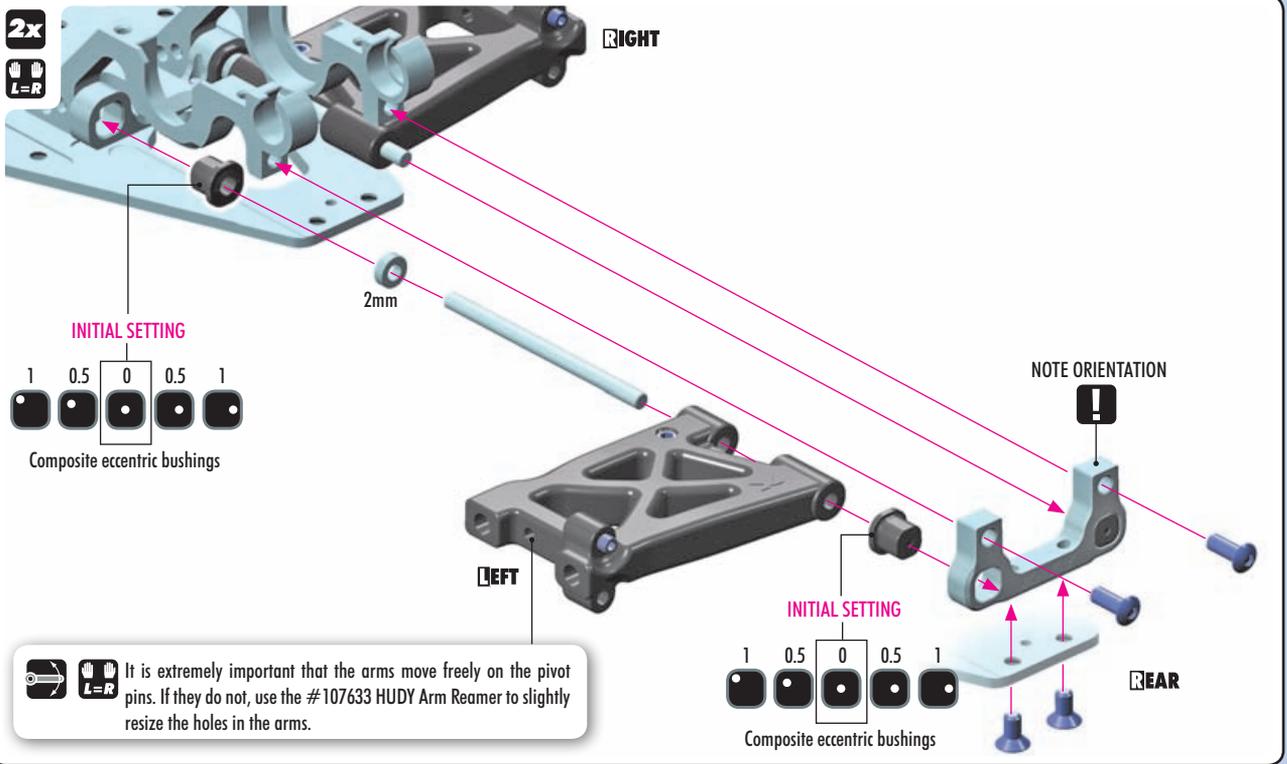
303123-K
SHIM 3x6x2



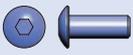
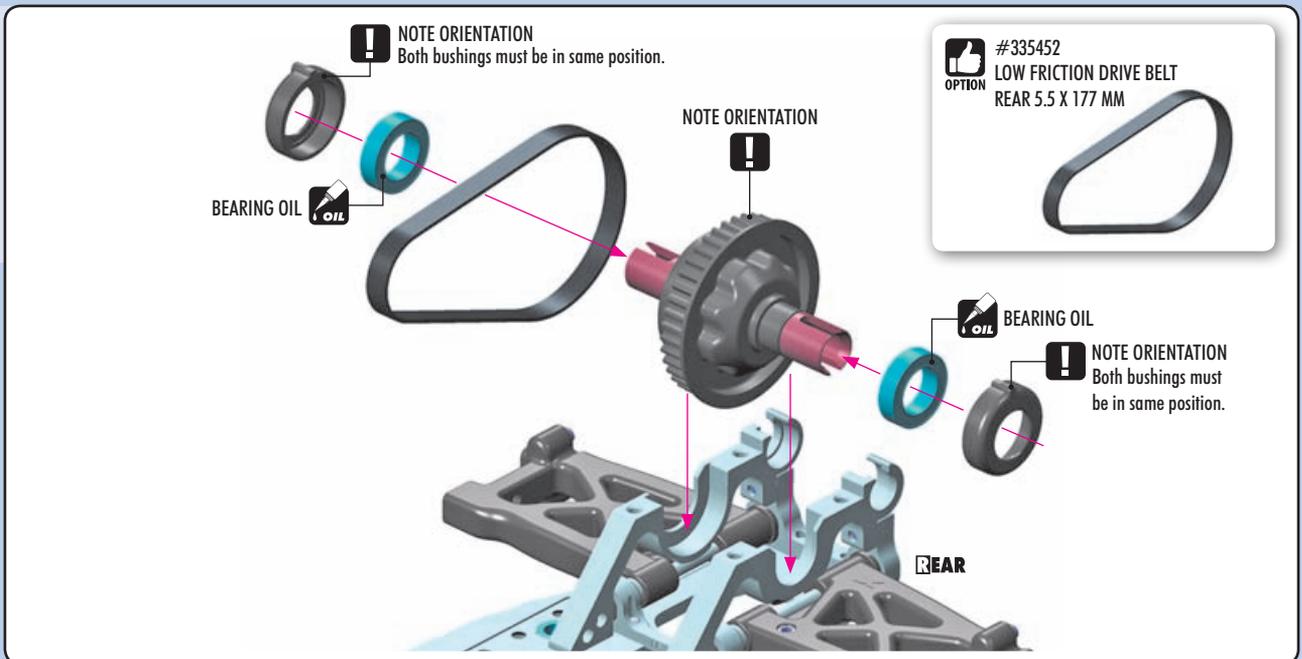
902308
SH M3x8



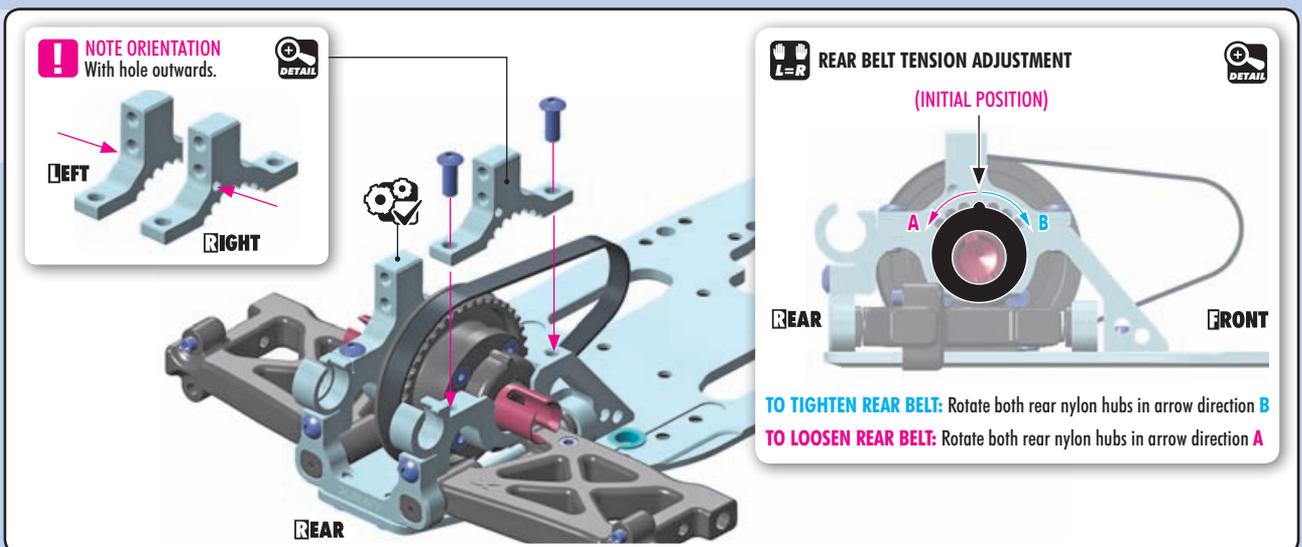
903306
SFH M3x6



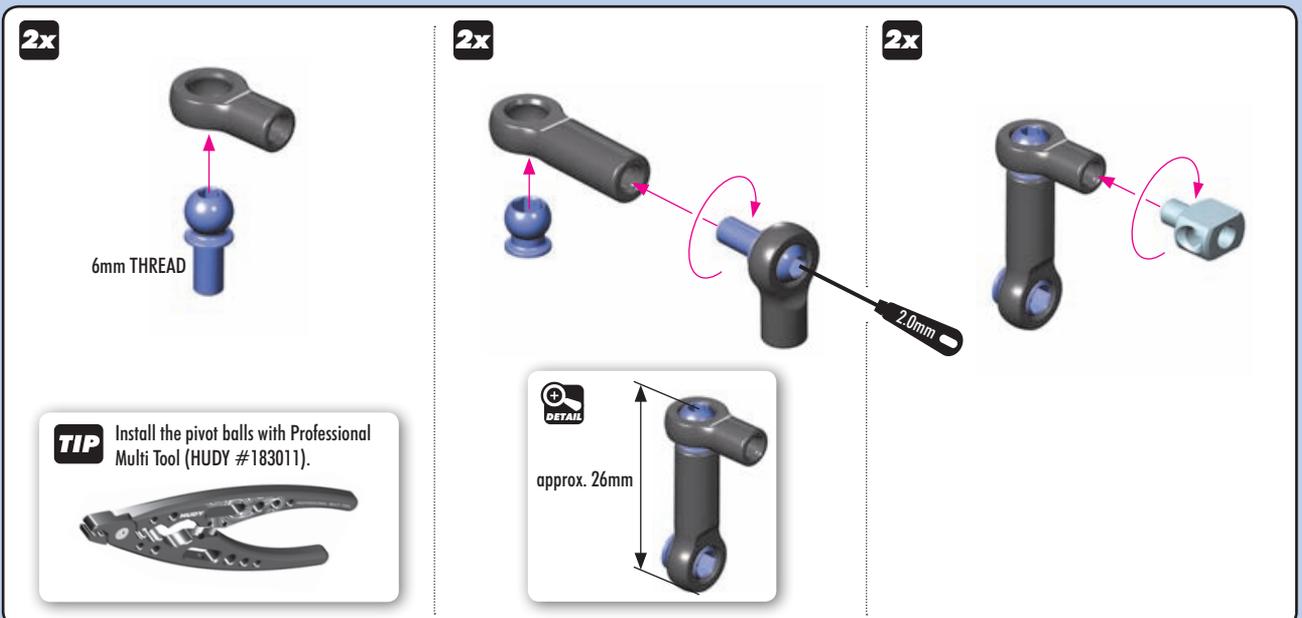
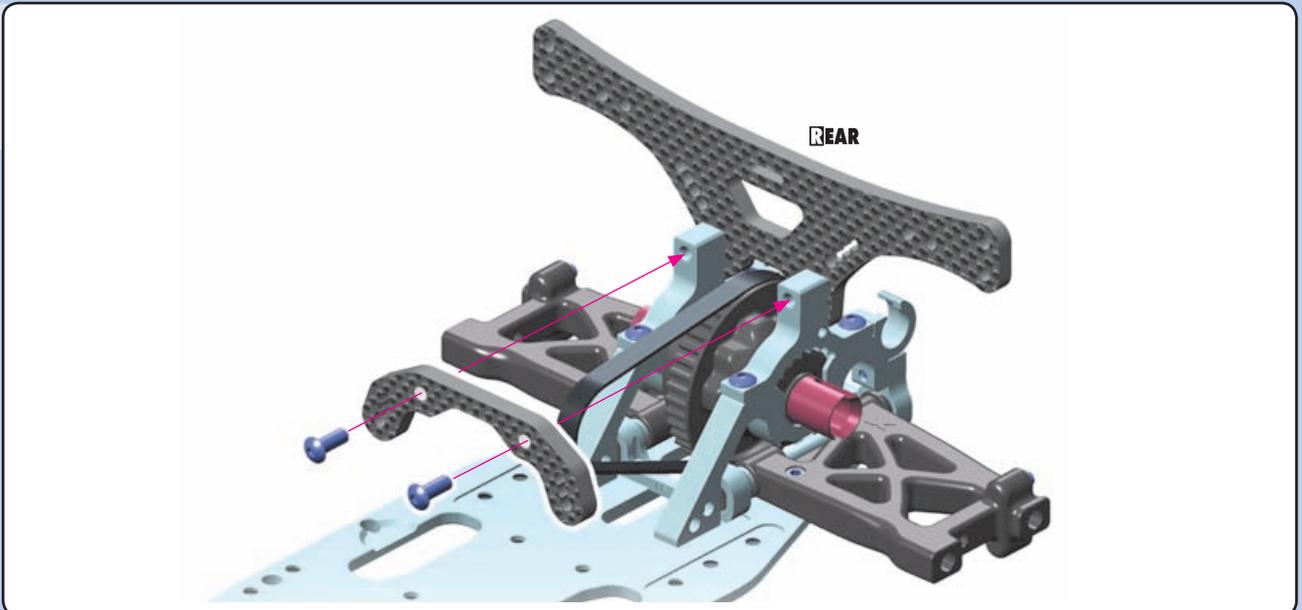
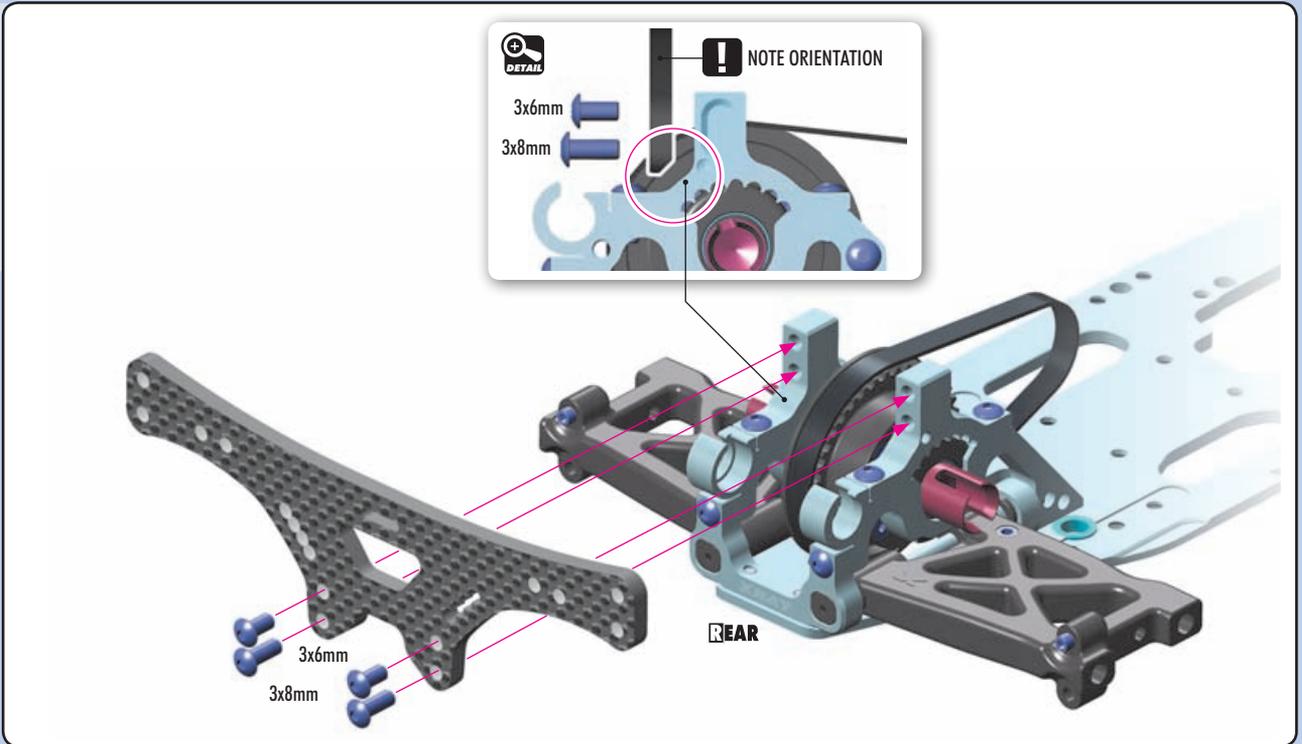
941016
BB 10x16x4



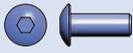
902308
SH M3x8



2. REAR SUSPENSION

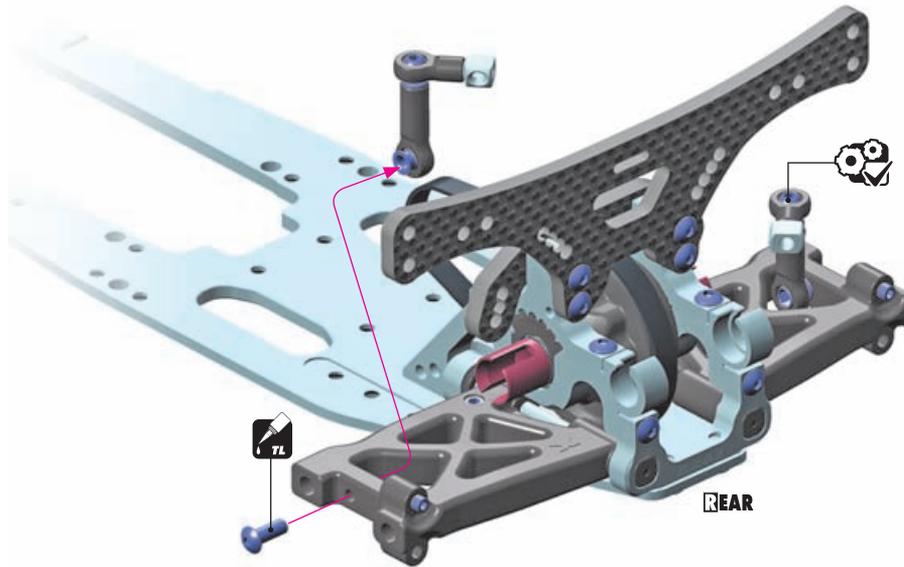


2. REAR SUSPENSION



902308
SH M3x8

2x
L=R

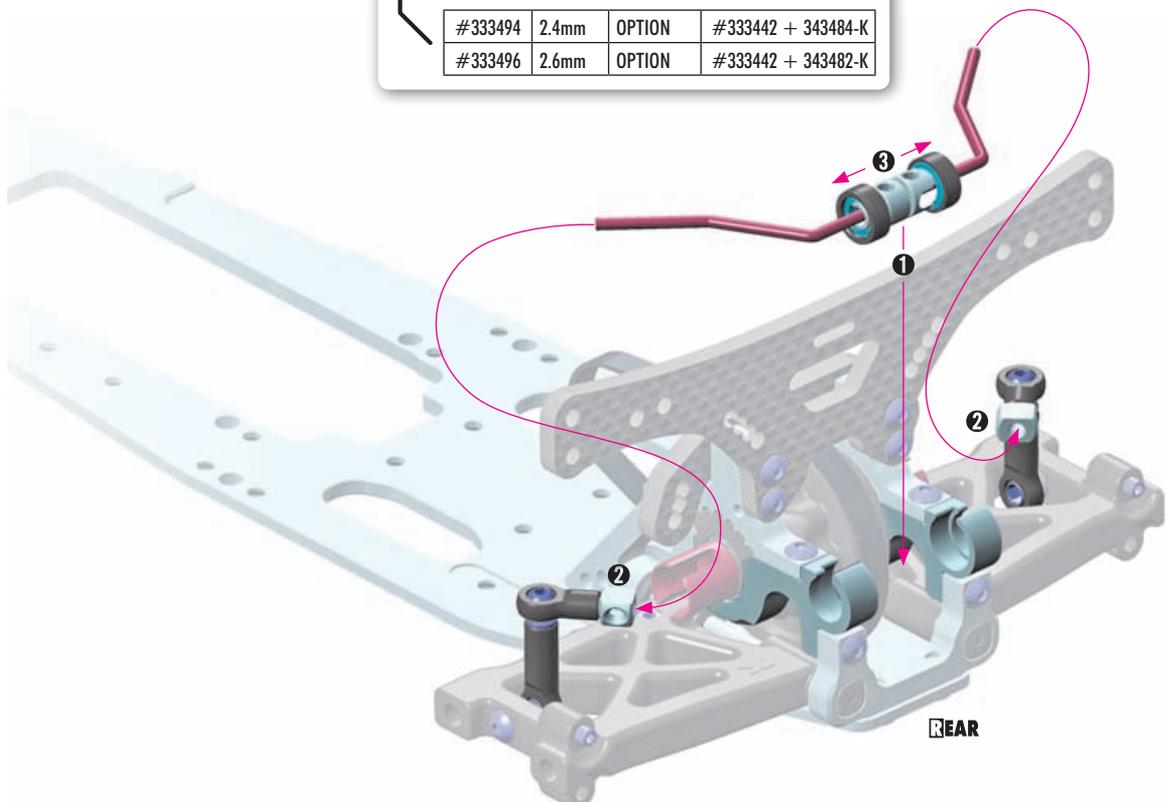


930508
BB 5x8x2.5



OPTION

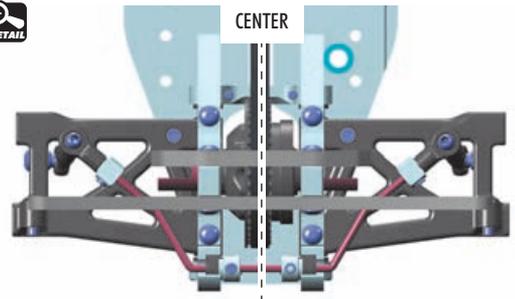
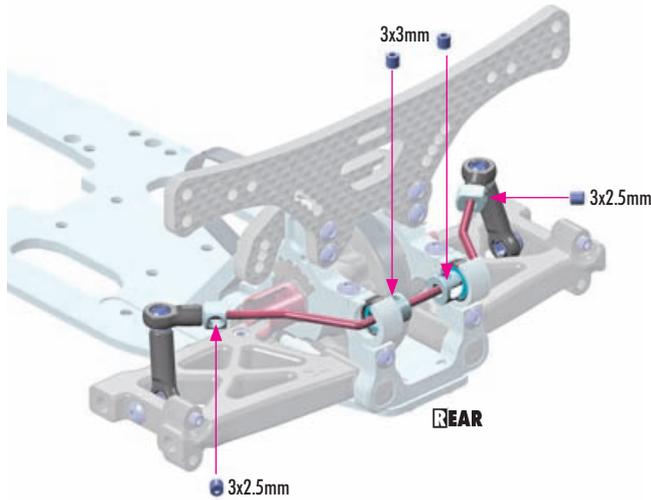
REAR ANTI-ROLL BARS			COLLARS	
#333488	1.8mm	OPTION		
#333490	2.0mm	OPTION	#333443 + 343483-K	
#333492	2.2mm	INCLUDED	INCLUDED	
#333494	2.4mm	OPTION	#333442 + 343484-K	
#333496	2.6mm	OPTION	#333442 + 343482-K	



2. REAR SUSPENSION

901302
SB M3x2.5

901303
SB M3x3



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

TOP VIEW

REAR

SET-UP BOOK

REAR ANTI-ROLL BAR ADJUSTMENT



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.

2x

L=R



NOTE ORIENTATION

#337252 ALU NUT
#337254 COMPOSITE CUP

OPTION

Tighten composite hex nuts using HUDY tool #107581.

TIP



OPTION

REAR UPRIGHT

#333311	MEDIUM	OPTION
#333311-H	HARD	INCLUDED



Pivot balls must move freely.



During initial assembly, tighten each composite hex nut until the pivot ball starts to bind, then loosen slightly. Verify that the pivot balls move freely.

901303
SB M3x3



901316
SB M3x16

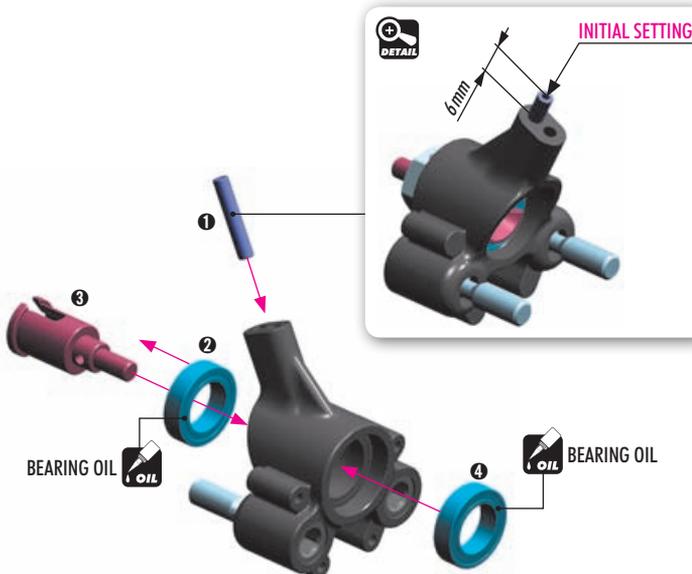


941016
BB 10x16x4

980210
P 2x10

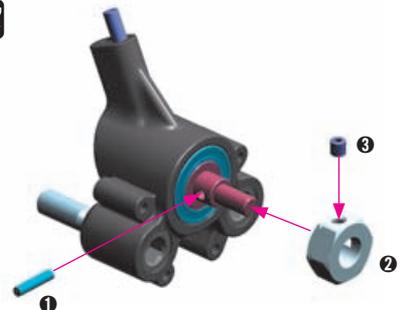
2x

L=R



2x

L=R



OPTION

WHEEL HUBS

#335250	0mm	INCLUDED
#335251	-0.75MM	OPTION
#335252	+0.75MM	OPTION



2. REAR SUSPENSION



303241
BALL 5.8

2x

! Use ball joints WITH DOT.



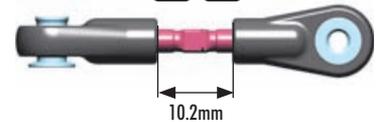
TIP BALL JOINT WRENCH (HUDY #181110).



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



L=R 1:1



! 90° angle difference between the ball joints.

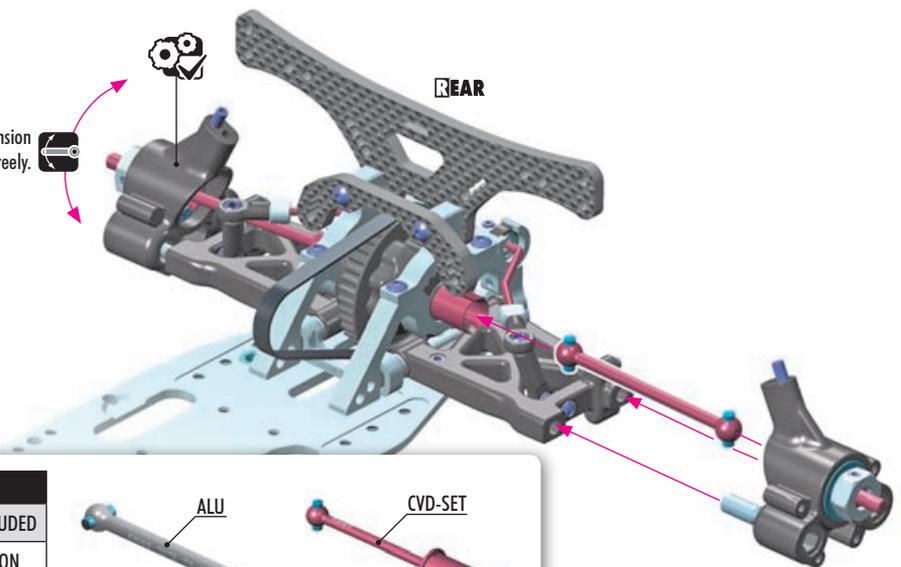
SET-UP BOOK

REAR CAMBER ADJUSTMENT

2x

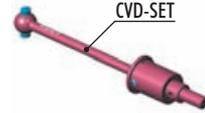
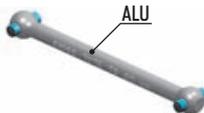
L=R

Ensure that both suspension assemblies move freely.



OPTION

DRIVE SHAFT		
#335320	HUDY SPRING STEEL™	INCLUDED
#335321	ALU	OPTION
#335305	CVD - SET	OPTION



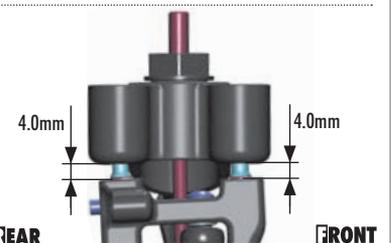
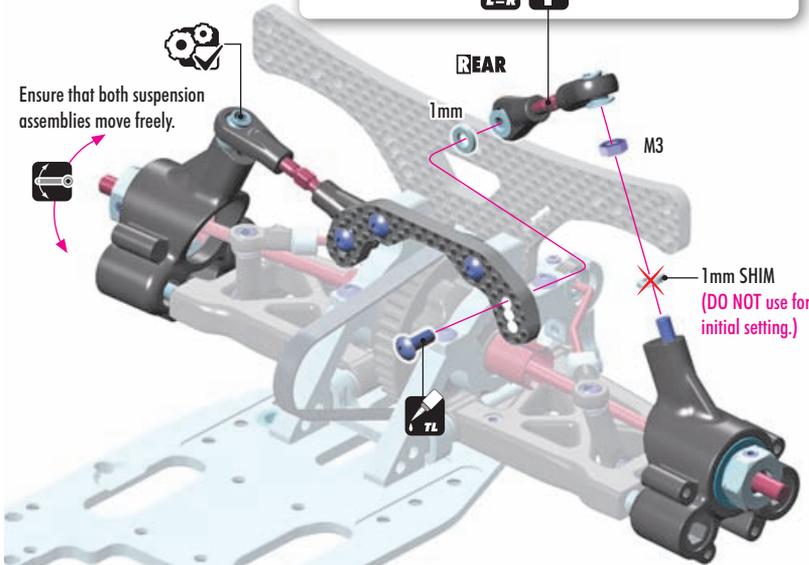
2x

L=R

INSIDE OUTSIDE

L=R ! NOTE ORIENTATION

Ensure that both suspension assemblies move freely.



303122-K
SHIM 3x6x1



902308
SH M3x8

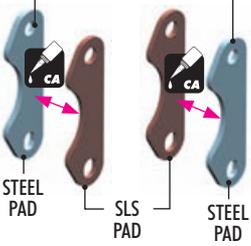


960032
N M3

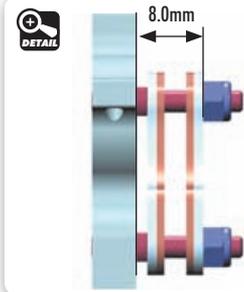
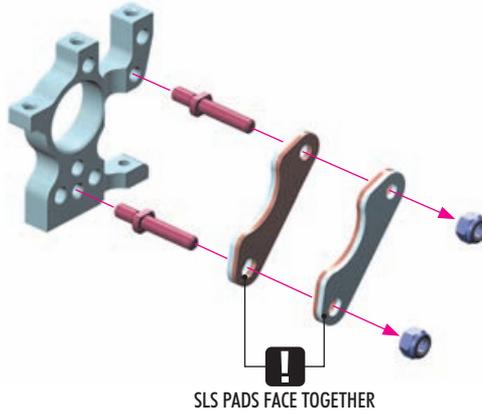
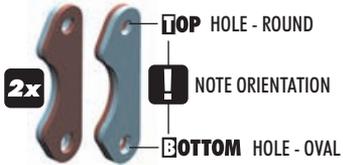
2. REAR SUSPENSION



Roughen steel plates with sandpaper before gluing SLS pads.



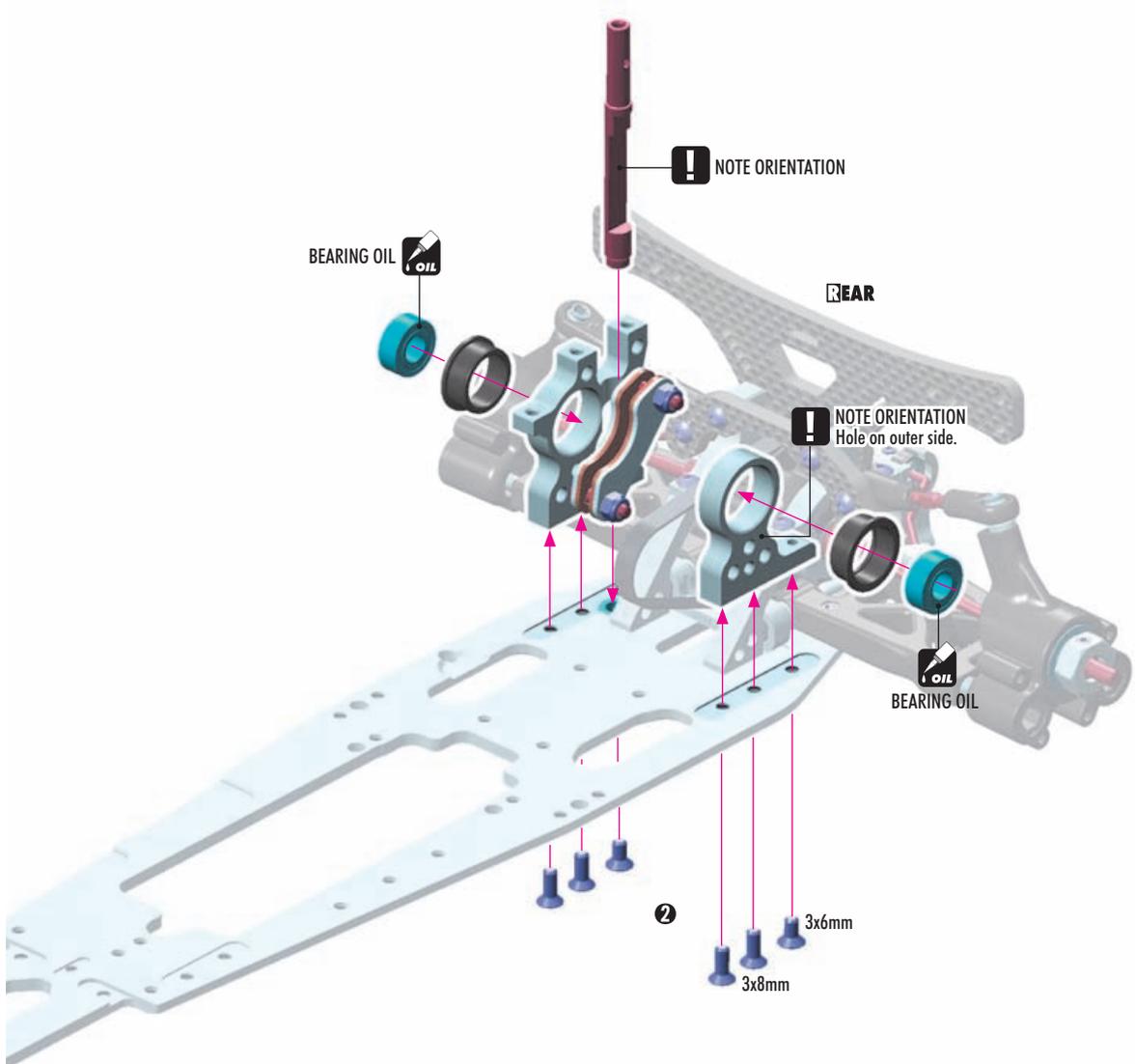
We recommend gluing the brake pads to the steel pads, however there is no performance difference between glued & unglued brake pads.



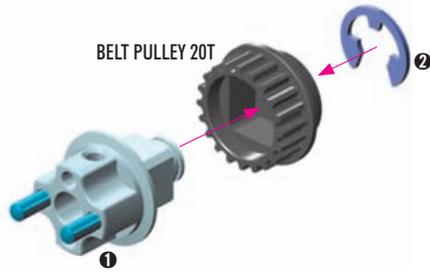
#372176
OPTION SPRING 4.0 COILS 3.6x0.5mm
C=1.5 - GOLD (SOFT)



The springs can be used only in combination with #334111 Ventilated Brake Disc and #962032 Shims 3x6x0.2mm.

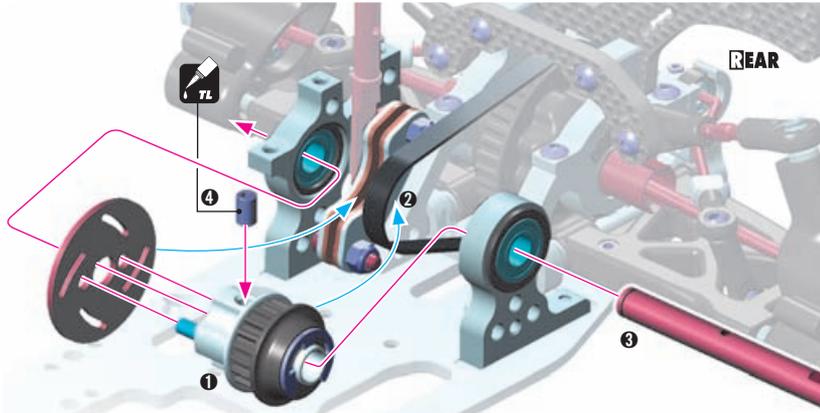


2. REAR SUSPENSION



#335801-0
OPTION LOW FRICTION COMPOSITE BELT PULLEY SET - GRAPHITE

BELT PULLEY 20T - 2-SPEED CENTER
BELT PULLEY 18T - 2-SPEED SIDE
BELT PULLEY 19T - MID-CENTER
BELT PULLEY 25T - MID-SIDE
BELT PULLEY 26T - MID-SIDE



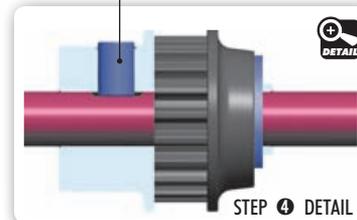
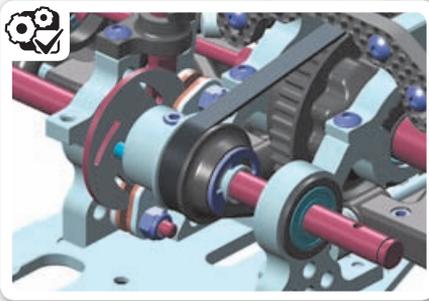
#334111
OPTION VENTILATED BRAKE DISC PRECISION-GROUND LIGHTWEIGHT



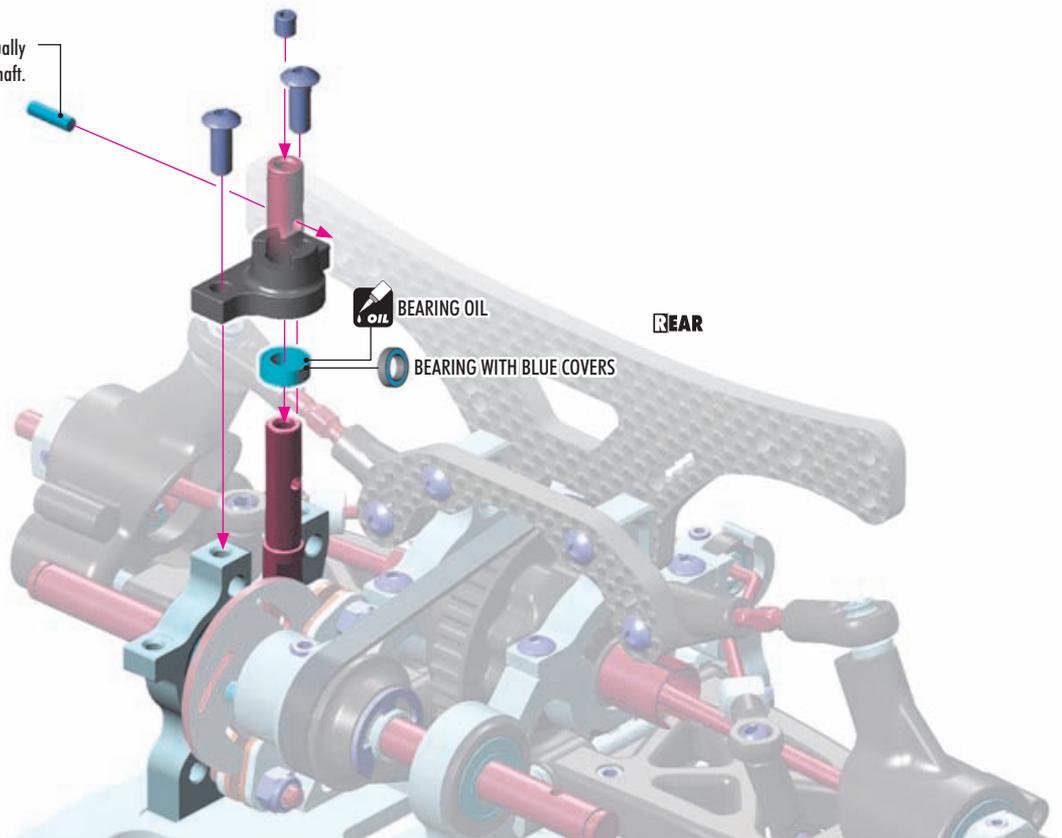
#335511
OPTION 2-SPEED SHAFT - LIGHTWEIGHT



NOTE ORIENTATION ! Tighten set-screw onto flat spot.



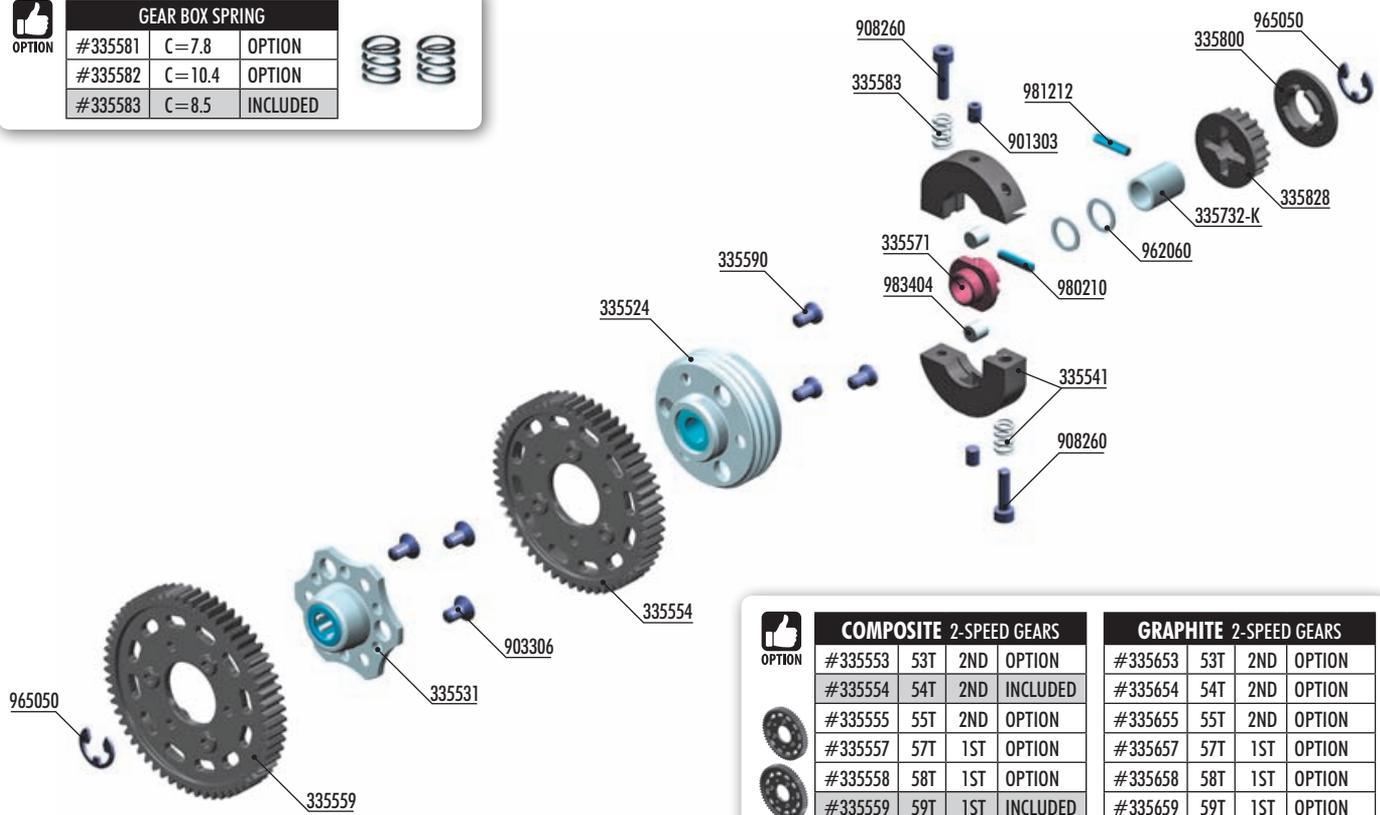
Pin must protrude equally on both sides of camshaft.



3. REAR TRANSMISSION



GEAR BOX SPRING			
#335581	C=7.8	OPTION	
#335582	C=10.4	OPTION	
#335583	C=8.5	INCLUDED	



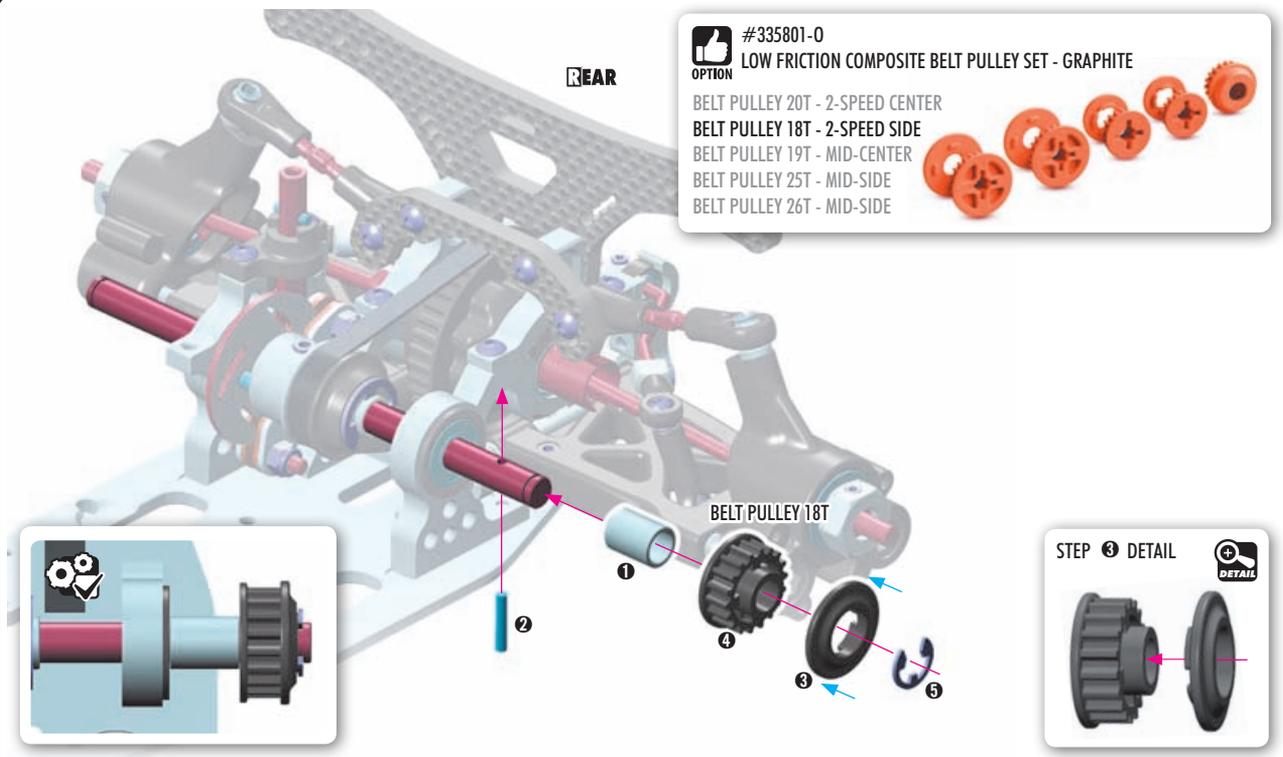
COMPOSITE 2-SPEED GEARS			
#335553	53T	2ND	OPTION
#335554	54T	2ND	INCLUDED
#335555	55T	2ND	OPTION
#335557	57T	1ST	OPTION
#335558	58T	1ST	OPTION
#335559	59T	1ST	INCLUDED
#335560	60T	1ST	OPTION

GRAPHITE 2-SPEED GEARS			
#335653	53T	2ND	OPTION
#335654	54T	2ND	OPTION
#335655	55T	2ND	OPTION
#335657	57T	1ST	OPTION
#335658	58T	1ST	OPTION
#335659	59T	1ST	OPTION
#335660	60T	1ST	OPTION

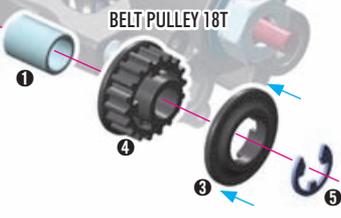
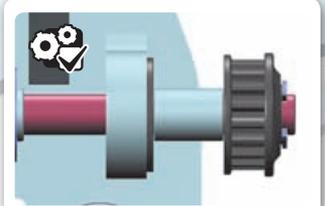


- 335524 ALU SMALL CARRIER FOR 2-SPEED GEAR (2nd) + BALL-BEARING - SOFT
- 335531 ALU LIGHTWEIGHT DRIVE FLANGE WITH ONE-WAY BEARING - SWISS 7075 T6
- 335541 COMPOSITE SMALL 2-SPEED GEAR BOX SHOE - SET
- 335554 COMPOSITE 2-SPEED GEAR 54T (2nd) - V3
- 335559 COMPOSITE 2-SPEED GEAR 59T (1st)
- 335571 ADAPTER SMALL 2-SPEED
- 335590 HEX SCREW SFH M3x6 - GRINDED (3)
- 335583 SPRING FOR SMALL GEAR BOX - MEDIUM-HARD (2)
- 335732-K ALU LOCATING COLLAR - BLACK
- 335800 COMPOSITE BELT PULLEY COVER SET

- 335828 COMPOSITE BELT PULLEY 18T - 2-SPEED-SIDE
- 901303 HEX SCREW SB M3x3 (10)
- 903306 HEX SCREW SFH M3x6 (10)
- 908260 HEX SCREW SOCKET HEAD CAP M2.5x10 (10)
- 962060 WASHER S 6x8x0.5 (10)
- 965050 E-CLIP 5 (10)
- 980210 PIN 2x10 (10)
- 981212 PIN 2x12 (10)
- 983404 ROLLER PIN 4x4 MM (2)

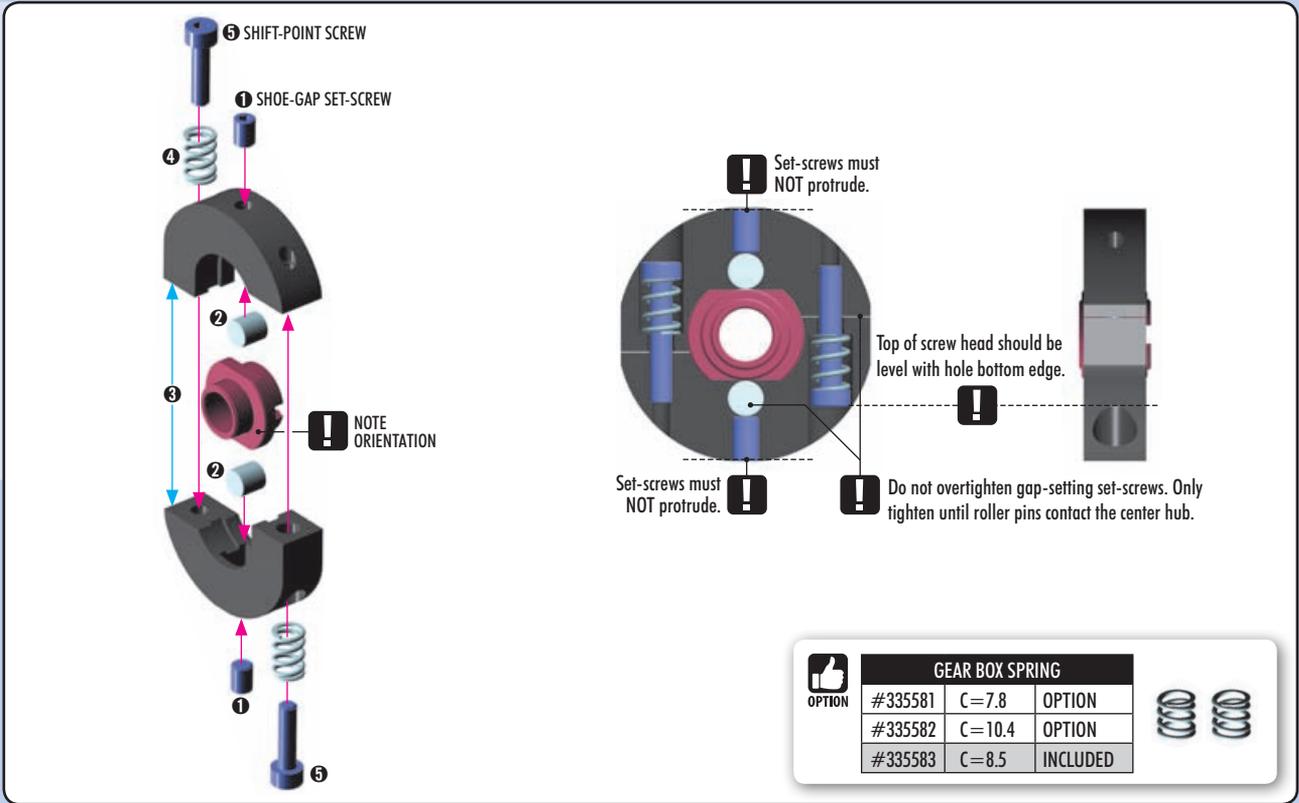


- #335801-0 LOW FRICTION COMPOSITE BELT PULLEY SET - GRAPHITE
- BELT PULLEY 20T - 2-SPEED CENTER
- BELT PULLEY 18T - 2-SPEED SIDE
- BELT PULLEY 19T - MID-CENTER
- BELT PULLEY 25T - MID-SIDE
- BELT PULLEY 26T - MID-SIDE



3. REAR TRANSMISSION

-  901303
SB M3x3
-  908260
SCH M2.5x10
-  983404
RP 4x4



1 SHOE-GAP SET-SCREW

2 NOTE ORIENTATION

3 NOTE ORIENTATION

4

5 SHIFT-POINT SCREW

Set-screws must NOT protrude.

Top of screw head should be level with hole bottom edge.

Set-screws must NOT protrude.

Do not overtighten gap-setting set-screws. Only tighten until roller pins contact the center hub.

GEAR BOX SPRING			
OPTION	#335581	C=7.8	OPTION
	#335582	C=10.4	OPTION
	#335583	C=8.5	INCLUDED

-  335590
SFH M3x6
GROUND
-  903306
SFH M3x6

TIP Use HUDY Reamer #107602 to slightly chamfer the edges on all 3 holes for screws.

TIP Use HUDY Reamer #107602 to slightly chamfer the edges on all 3 holes for screws.

BEARING OIL

NOTE ORIENTATION

3x6mm GROUND

ONE WAY LUBE

-  962060
SHIM 6x8x0.5
-  965050
C5
-  980210
P 2x10

IMPORTANT! Adjust the shoe gap according to the Set-Up Book.

REAR

0.5mm

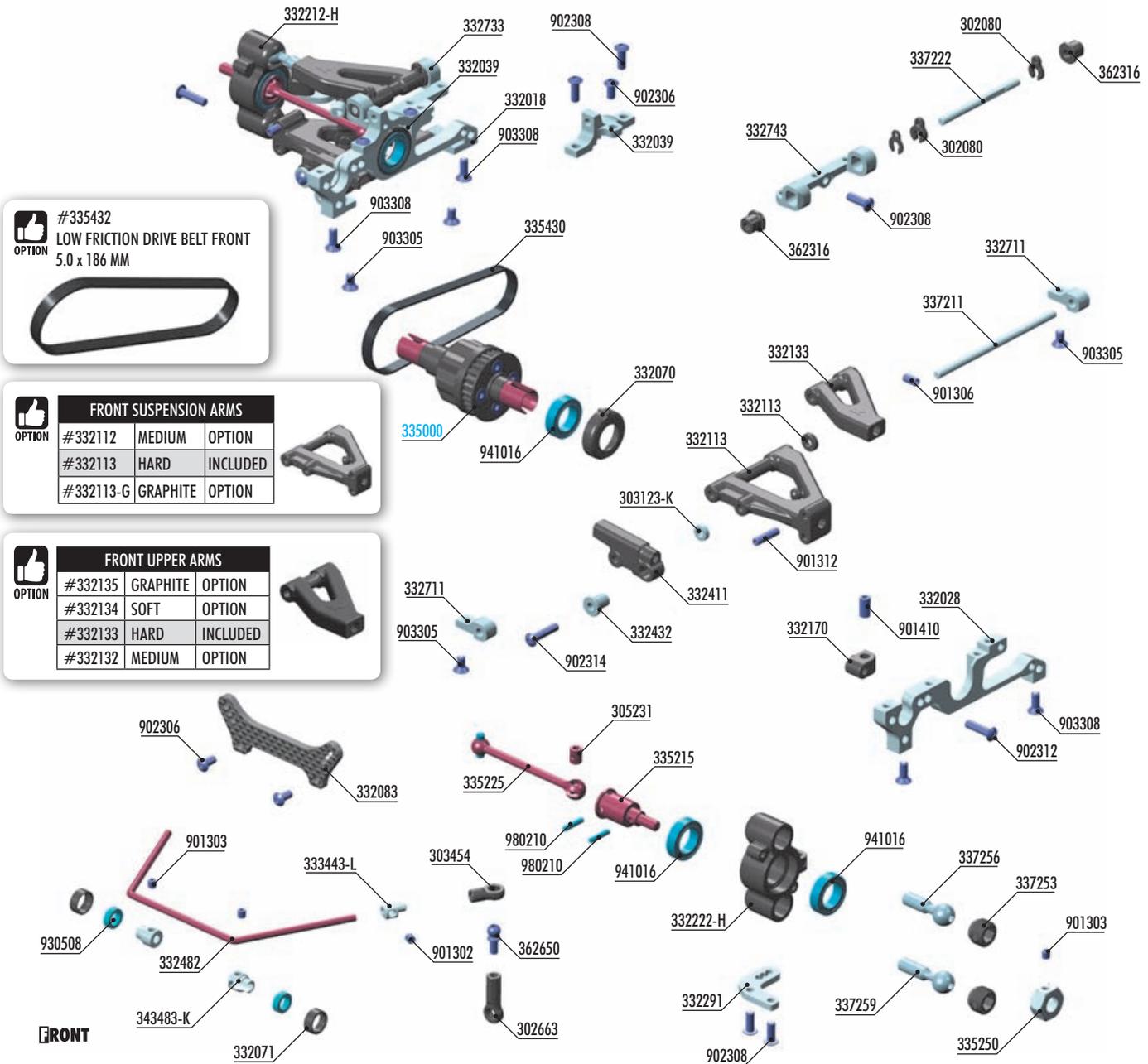
NOTE ORIENTATION

NOTE ORIENTATION

COMPOSITE 2-SPEED GEARS				GRAPHITE 2-SPEED GEARS				
OPTION	#335553	53T	2ND	OPTION	#335653	53T	2ND	OPTION
	#335554	54T	2ND	INCLUDED	#335654	54T	2ND	OPTION
	#335555	55T	2ND	OPTION	#335655	55T	2ND	OPTION
	#335557	57T	1ST	OPTION	#335657	57T	1ST	OPTION
	#335558	58T	1ST	OPTION	#335658	58T	1ST	OPTION
	#335559	59T	1ST	INCLUDED	#335659	59T	1ST	OPTION
	#335560	60T	1ST	OPTION	#335660	60T	1ST	OPTION



4. FRONT SUSPENSION



#335432
LOW FRICTION DRIVE BELT FRONT
 5.0 x 186 MM

FRONT SUSPENSION ARMS

#332112	MEDIUM	OPTION
#332113	HARD	INCLUDED
#332113-G	GRAPHITE	OPTION

FRONT UPPER ARMS

#332135	GRAPHITE	OPTION
#332134	SOFT	OPTION
#332133	HARD	INCLUDED
#332132	MEDIUM	OPTION

FRONT

BAG

04

- 302080 CASTER CLIPS SET 4+3+2+1 MM (2)
- 302663 COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8)
- 303123-K ALU SHIM 3x6x2.0MM - BLACK (10)
- 303454 BALL JOINT 4.9MM - OPEN (4)
- 305231 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
- 332018 ALU LOWER BULKHEAD FRONT RIGHT - BLACK - SWISS 7075 T6
- 332028 ALU LOWER BULKHEAD FRONT LEFT - BLACK - SWISS 7075 T6
- 332039 ALU UPPER CLAMP FRONT (L+R) - BLACK - SWISS 7075 T6
- 332070 COMPOSITE ADJUST. BALL-BEARING HUB (4)
- 332071 COMPOSITE BALL-BEARING HUB (4)
- 332083 GRAPHITE SHOCK TOWER FRONT 2.5MM
- 332113 COMPOSITE SUSP. ARM FRONT LOWER FOR WIRE ANTI-ROLL BAR - HARD
- 332133 COMPOSITE SUSP. ARM FRONT UPPER WITH HOLE - HARD
- 332170 COMPOSITE SUSP. ARM BACKSTOP (2)
- 332212-H COMPOSITE STEERING BLOCK RIGHT FOR AERO DISC - HARD
- 332222-H COMPOSITE STEERING BLOCK LEFT FOR AERO DISC - HARD
- 332291 ALU EXTENSION FOR STEERING BLOCK - SWISS 7075 T6 (2)
- 332411 COMPOSITE FRONT ANTI-ROLL BAR HOLDER & ECCENTRIC W/O UPSTOP (2+2)
- 332432 ALU FRONT ANTI-ROLL BAR HUB (2)
- 332482 ANTI-ROLL BAR FRONT 2.2 MM
- 332711 ALU LOWER 2-PIECE FRONT SUSPENSION HOLDER - BLACK (1)
- 332733 ALU UPPER ARM HOLDER RIGHT - BLACK - SWISS 7075 T6 - SET
- 332743 ALU UPPER ARM HOLDER LEFT - BLACK - SWISS 7075 T6 - SET
- 333443-L ALU ANTI-ROLL BAR COLLAR ø2.2 - LIGHTWEIGHT (2)
- 335215 CVD AXLE - SUPER LIGHT - HUDY SPRING STEEL™
- 335225 CVD DRIVE SHAFT - FRONT - HUDY SPRING STEEL™
- 335250 ALU WHEEL HUB 12MM - BLACK (2)
- 335430 PUR®-REINFORCED DRIVE BELT FRONT 5 x 186 MM
- 337211 FRONT LOWER INNER PIVOT PIN (2)
- 337222 FRONT UPPER PIVOT PIN WITH FLAT SPOT (2)
- 337253 COMPOSITE ADJUSTING NUT M10x1 WITH BALL CUP (4)
- 337256 STEEL PIVOT BALL 8.4 MM (2)
- 337259 STEEL PIVOT BALL 8.4 MM ø2.6 L=25MM (2)
- 343483-K ALU CUTTED ANTI-ROLL BAR COLLAR ø2.3 - BLACK (2)
- 362316 OPEN ECCENTRIC BUSHING SET (2)
- 362650 BALL END 4.9MM WITH THREAD 6MM (2)
- 901302 HEX SCREW SB M3x2.5 (10)
- 901303 HEX SCREW SB M3x3 (10)
- 901306 HEX SCREW SB M3x6 (10)
- 901312 HEX SCREW SB M3x12 (10)
- 901410 HEX SCREW SB M4x10 (10)
- 902306 HEX SCREW SH M3x6 (10)
- 902308 HEX SCREW SH M3x8 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 902314 HEX SCREW SH M3x14 (10)
- 903305 HEX SCREW SFH M3x5 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 930508 BALL-BEARING 5x8x2.5 STEEL SEALED - OIL (2)
- 941016 BALL-BEARING 10x16x4 RUBBER SEALED - OIL (2)
- 980210 PIN 2x10 (10)
- 335000 **FRONT GEAR DIFFERENTIAL - SET**

4. FRONT SUSPENSION



941016
BB 10x16x4

NOTE ORIENTATION
Both bushings must be in same position.

NOTE ORIENTATION

NOTE ORIENTATION
Both bushings must be in same position.

BEARING OIL

BEARING OIL

FRONT

#335432
LOW FRICTION DRIVE BELT
FRONT 5.0 x 186 MM



902308
SH M3x8

2x L=R

RIGHT

FRONT

LEFT

FRONT BELT TENSION ADJUSTMENT

INITIAL POSITION

FRONT

REAR

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

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



902306
SH M3x6



902308
SH M3x8

2x L=R

Do not tighten fully.
This screw will be tightened after assembling the radio plate (see page 36/step 1).

3x6mm

FRONT

FRONT FLEX SCREW
(DO NOT use for initial setting)

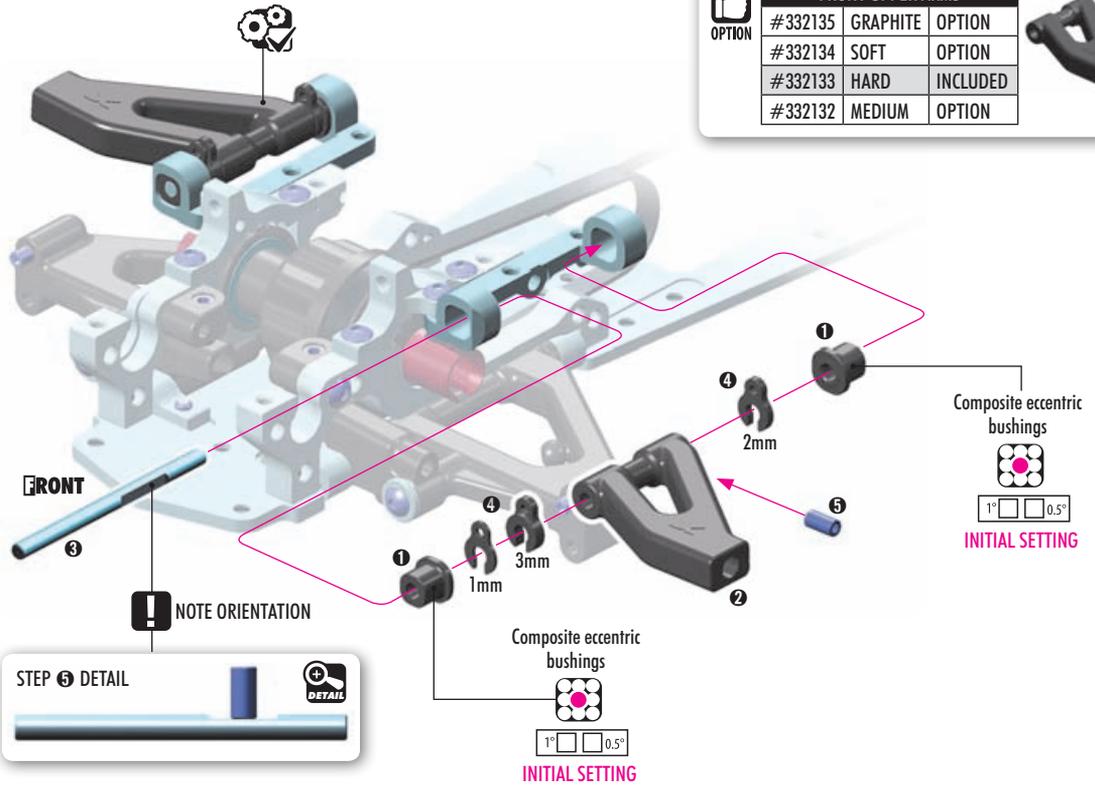
3x8mm

NOTE ORIENTATION

4. FRONT SUSPENSION

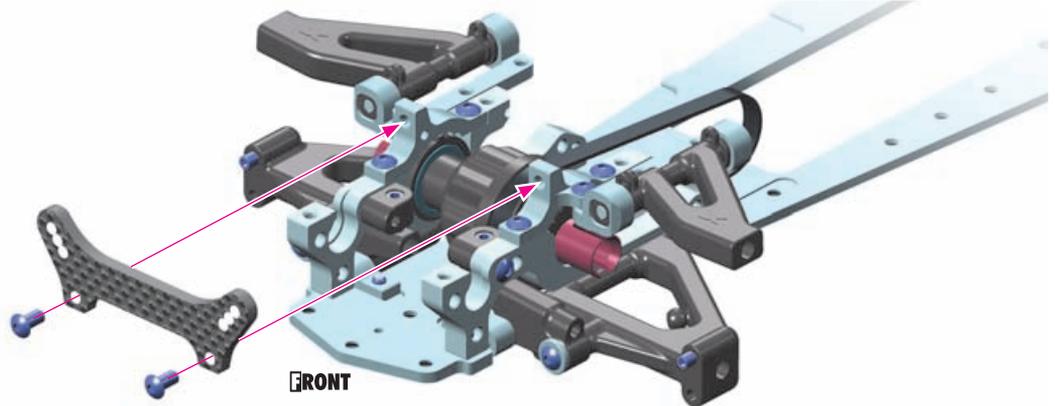
901306
SB M3x6

2x
L=R

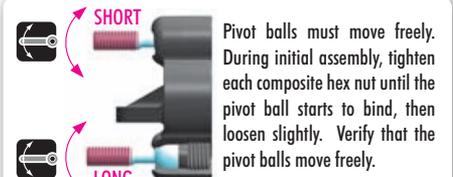
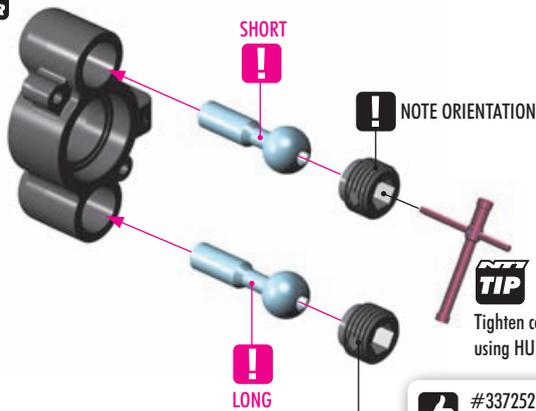


SET-UP BOOK
FRONT ROLL CENTER ADJUSTMENT

902306
SH M3x6



2x
L=R

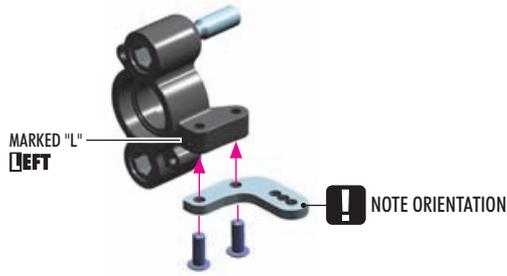


STEERING BLOCK				
#332212	1°	RIGHT	M	OPTION
#332212-H	1°	RIGHT	H	INCLUDED
#332213	0°	RIGHT	-	OPTION
#332222	1°	LEFT	M	OPTION
#332222-H	1°	LEFT	H	INCLUDED
#332223	0°	LEFT	-	OPTION

4. FRONT SUSPENSION



2x L=R



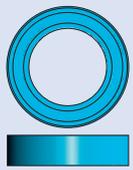
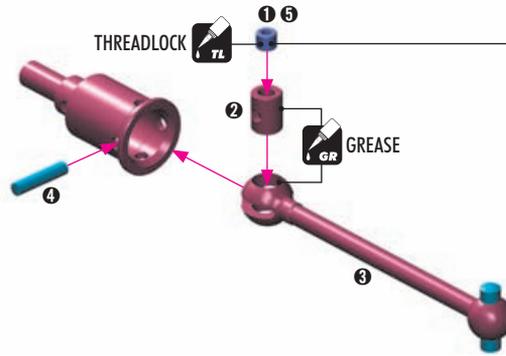
OPTION #332290 GRAPHITE EXTENSION FOR STEERING BLOCK (2)



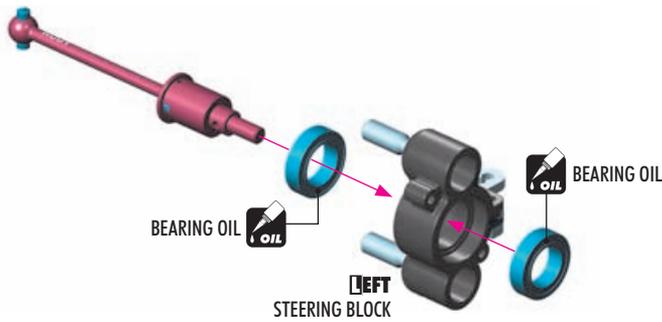
Optional graphite steering arms are available. They give more flex and front traction, but they are more fragile.



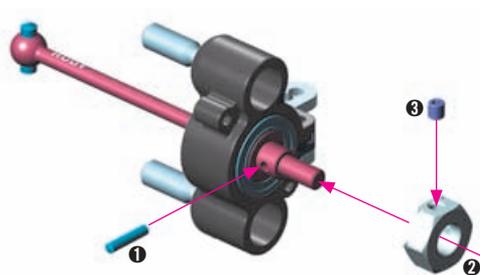
2x L=R



2x L=R



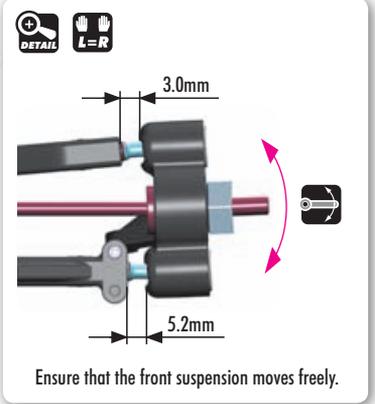
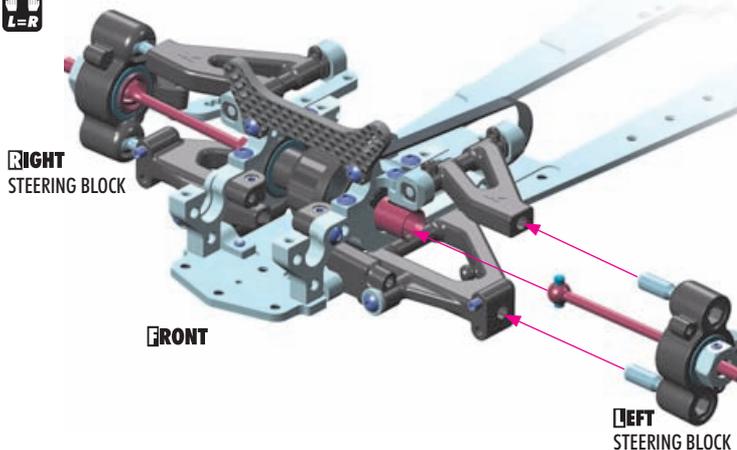
2x L=R



OPTION	WHEEL HUBS		
#335250	0.0mm	INCLUDED	
#335251	-0.75mm	OPTION	
#335252	+0.75mm	OPTION	



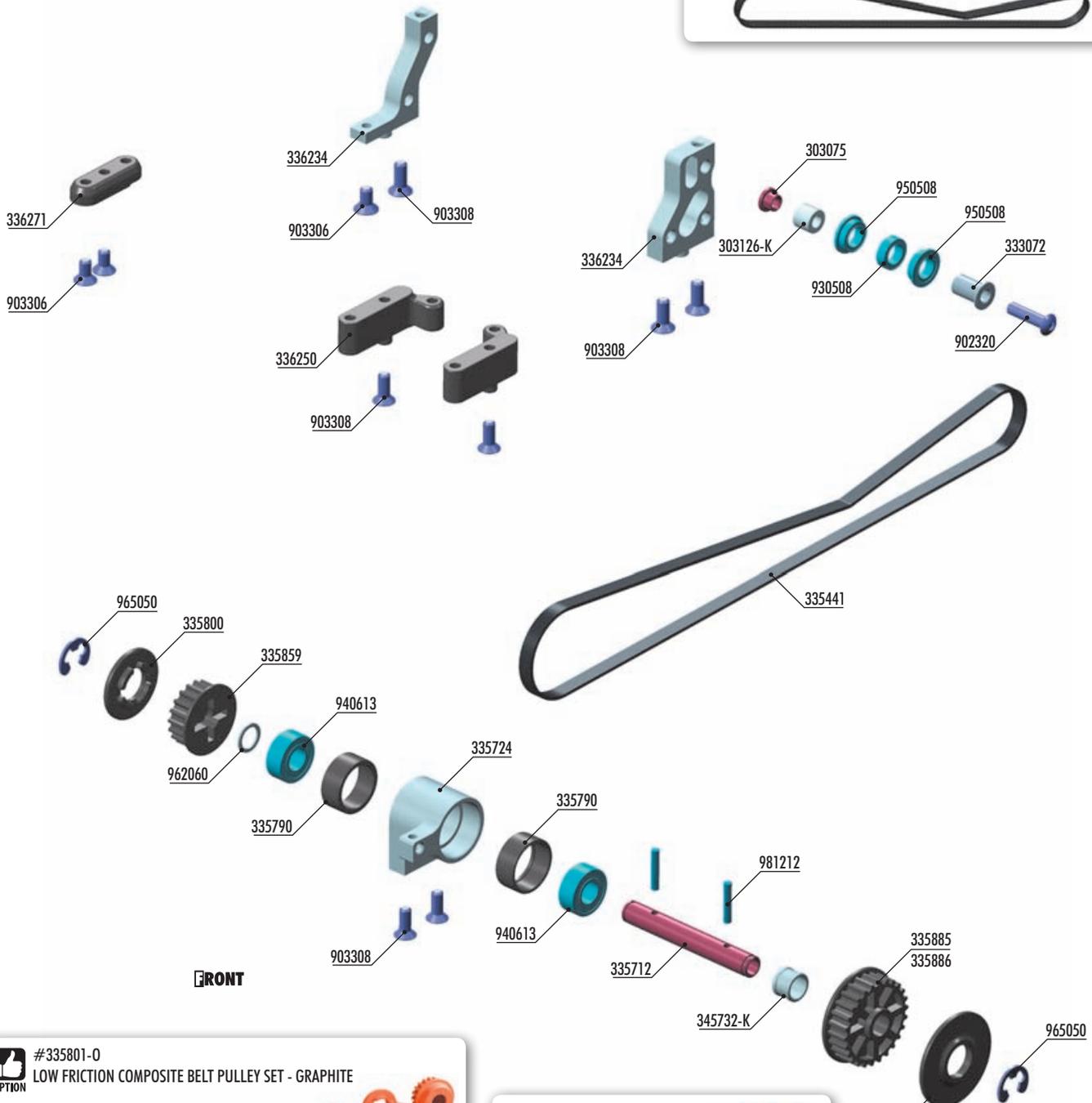
2x L=R



5. FRONT TRANSMISSION



#335443
LOW FRICTION DRIVE BELT SIDE 4.5 X 396 MM



FRONT



#335801-0
LOW FRICTION COMPOSITE BELT PULLEY SET - GRAPHITE

BELT PULLEY 20T - 2-SPEED CENTER
BELT PULLEY 18T - 2-SPEED SIDE
BELT PULLEY 19T - MID-CENTER
BELT PULLEY 25T - MID-SIDE
BELT PULLEY 26T - MID-SIDE



#345732-0
ALU MIDDLE SHAFT LOCATING COLLAR - SHORT - LIGHT-WEIGHT - ORANGE



BAG



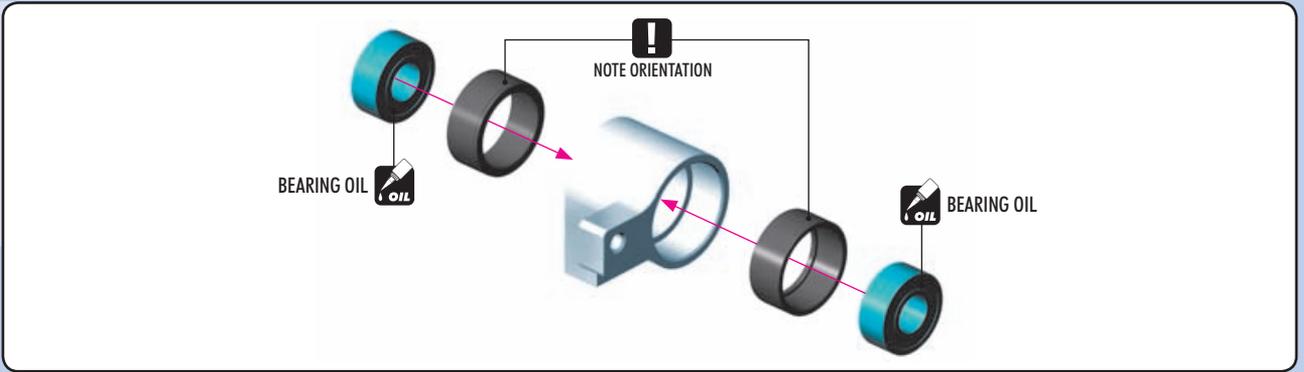
303126-K ALU SHIM 3x6x5.0MM - BLACK (10)
303075 BELT TENSIONER STEEL BUSHING (2)
333072 BELT TENSIONER SET
335441 PUR®-REINFORCED DRIVE BELT SIDE 4.5 x 390 MM
335712 FRONT MIDDLE SHAFT - HUDY SPRING STEEL™ - LIGHTWEIGHT
335724 ALU FRONT MIDDLE SHAFT HOLDER - BLACK - SET
335790 COMPOSITE BALL-BEARING BUSHING FOR MIDDLE SHAFT (2)
335800 COMPOSITE BELT PULLEY COVER SET
335859 COMPOSITE BELT PULLEY 19T - MID-CENTER
335885 COMPOSITE BELT PULLEY 25T - MID-SIDE
335886 COMPOSITE BELT PULLEY 26T - MID-SIDE
336234 ALU RADIO PLATE MOUNTS (L+R) - SWISS 7075 T6 - BLACK
336250 COMPOSITE BATTERY MOUNT L+R (2)

336271 COMPOSITE BATTERY PLATE HOLDER
345732-K ALU MIDDLE SHAFT LOCATING COLLAR - SHORT - BLACK
902320 HEX SCREW SH M3x20 (10)
903306 HEX SCREW SFH M3x6 (10)
903308 HEX SCREW SFH M3x8 (10)
930508 BALL-BEARING 5x8x2.5 STEEL SEALED - OIL (2)
940613 BALL-BEARING 6x13x5 RUBBER SEALED - OIL (2)
950508 BALL-BEARING 5x8x2.5 FLANGED - STEEL SEALED - OIL (2)
962060 WASHER S 6x8x0.5 (10)
965050 E-CLIP 5 (10)
981212 PIN 2x12 (10)

5. FRONT TRANSMISSION



940613
BB 6x13x5



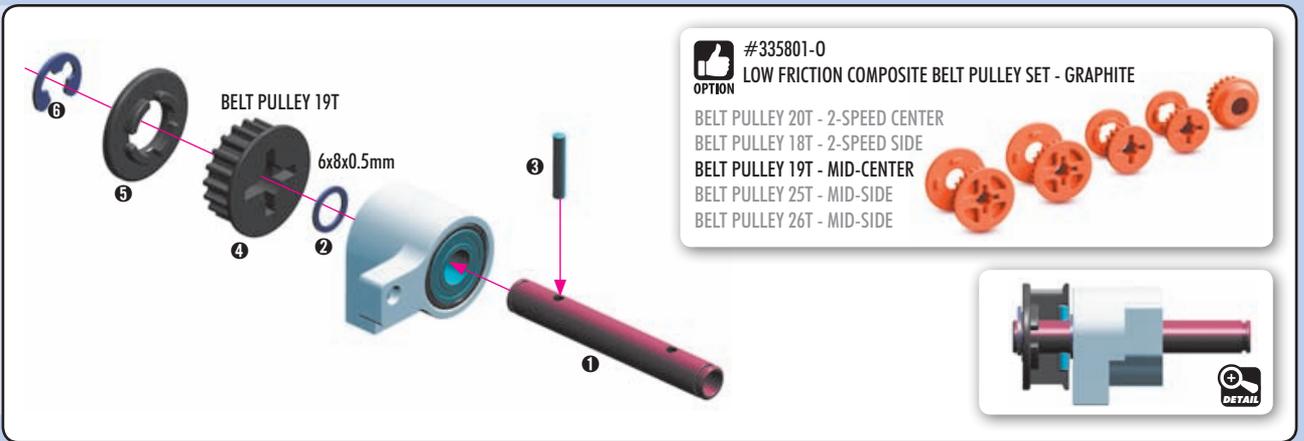
962060
SHIM 6x8x0.5



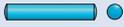
965050
C5



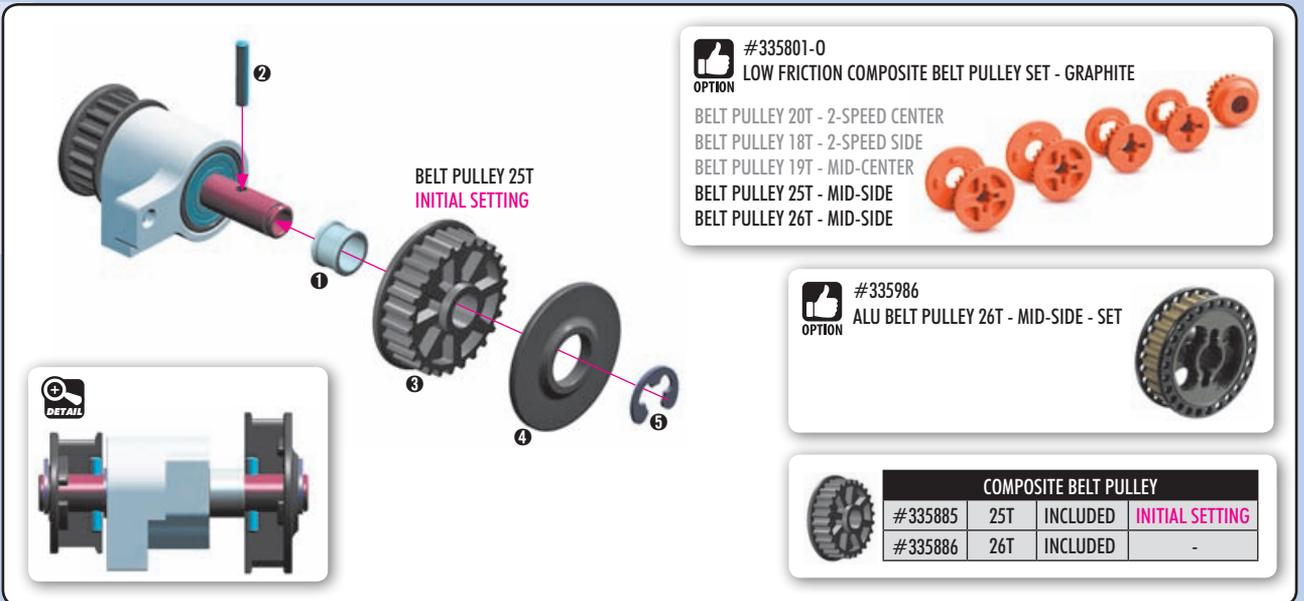
981212
P 2x12



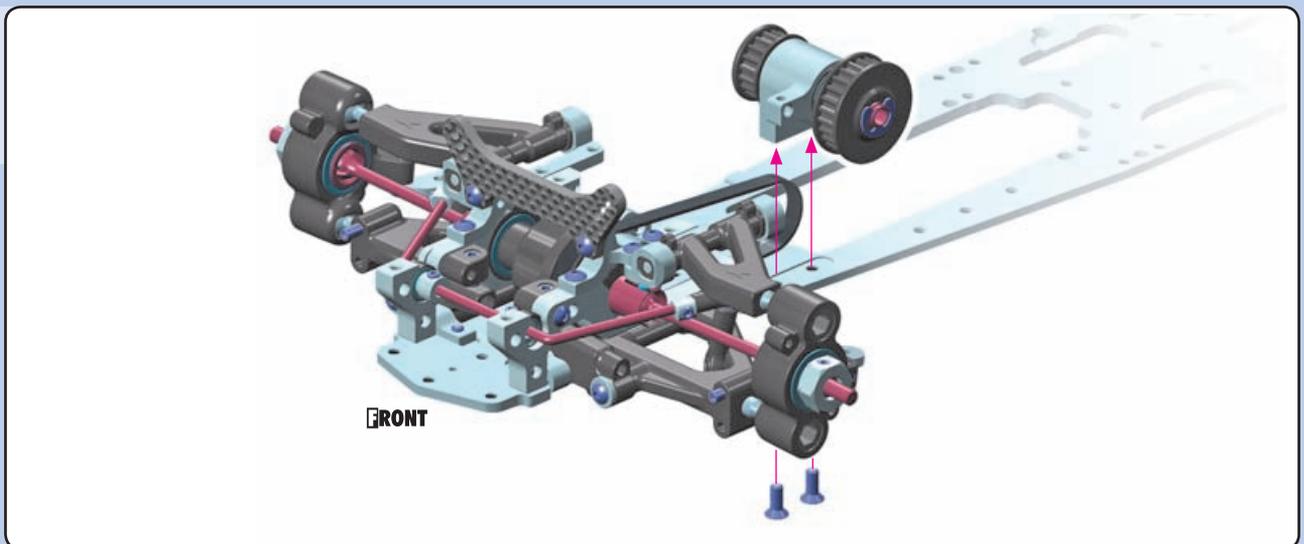
965050
C5



981212
P 2x12



903308
SFH M3x8



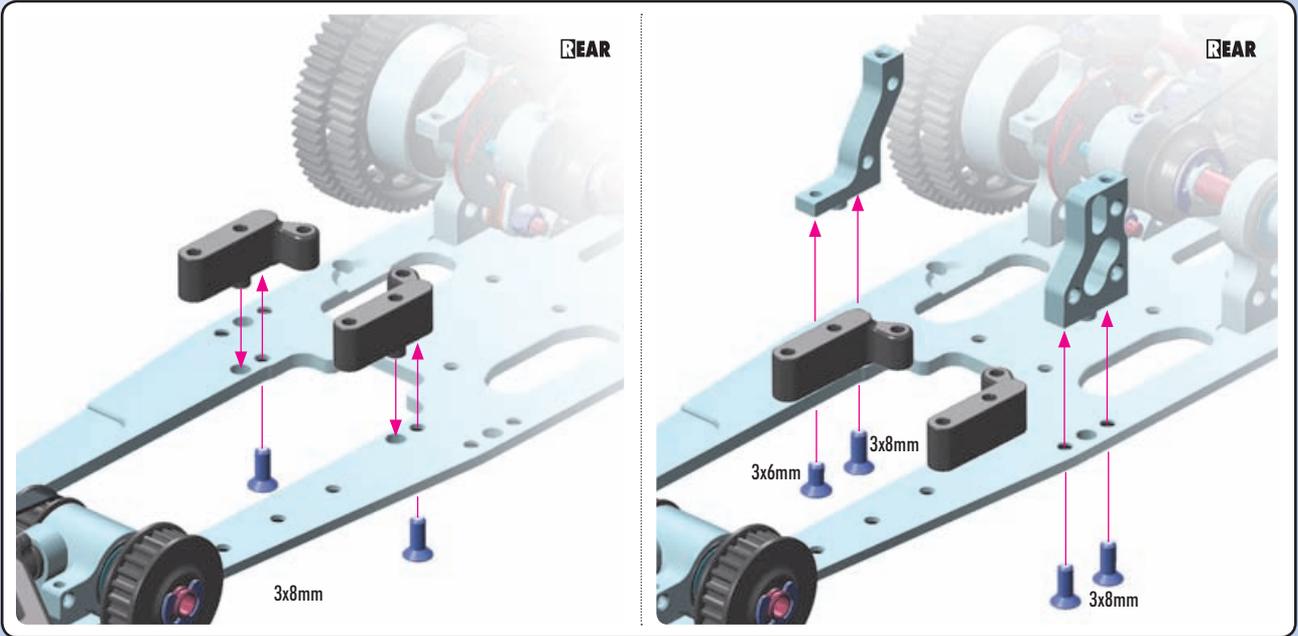
5. FRONT TRANSMISSION



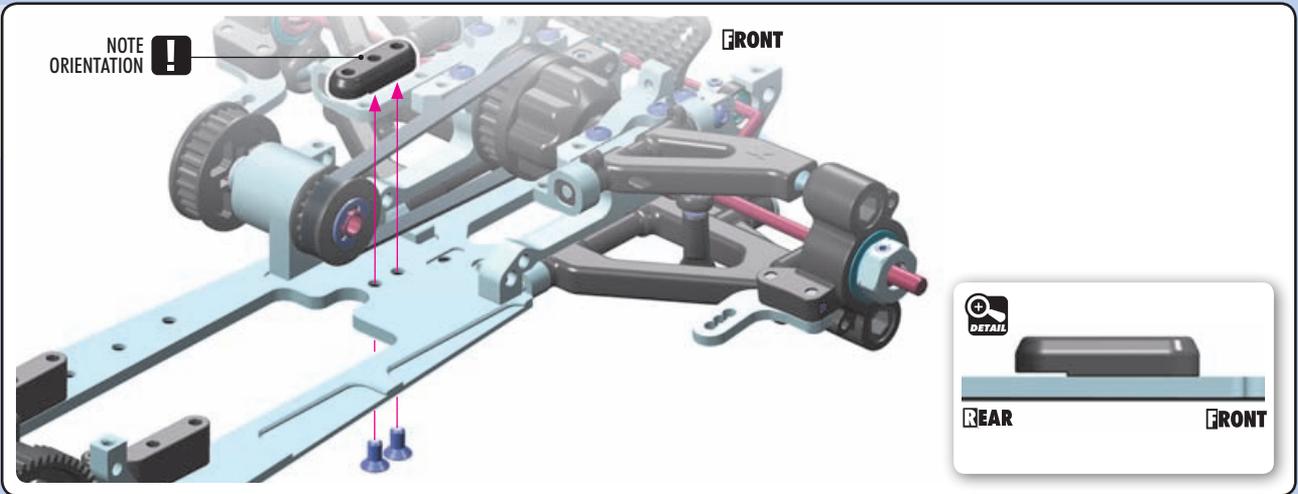
903306
SFH M3x6



903308
SFH M3x8



903306
SFH M3x6



303126-K
SHIM 3x6x5



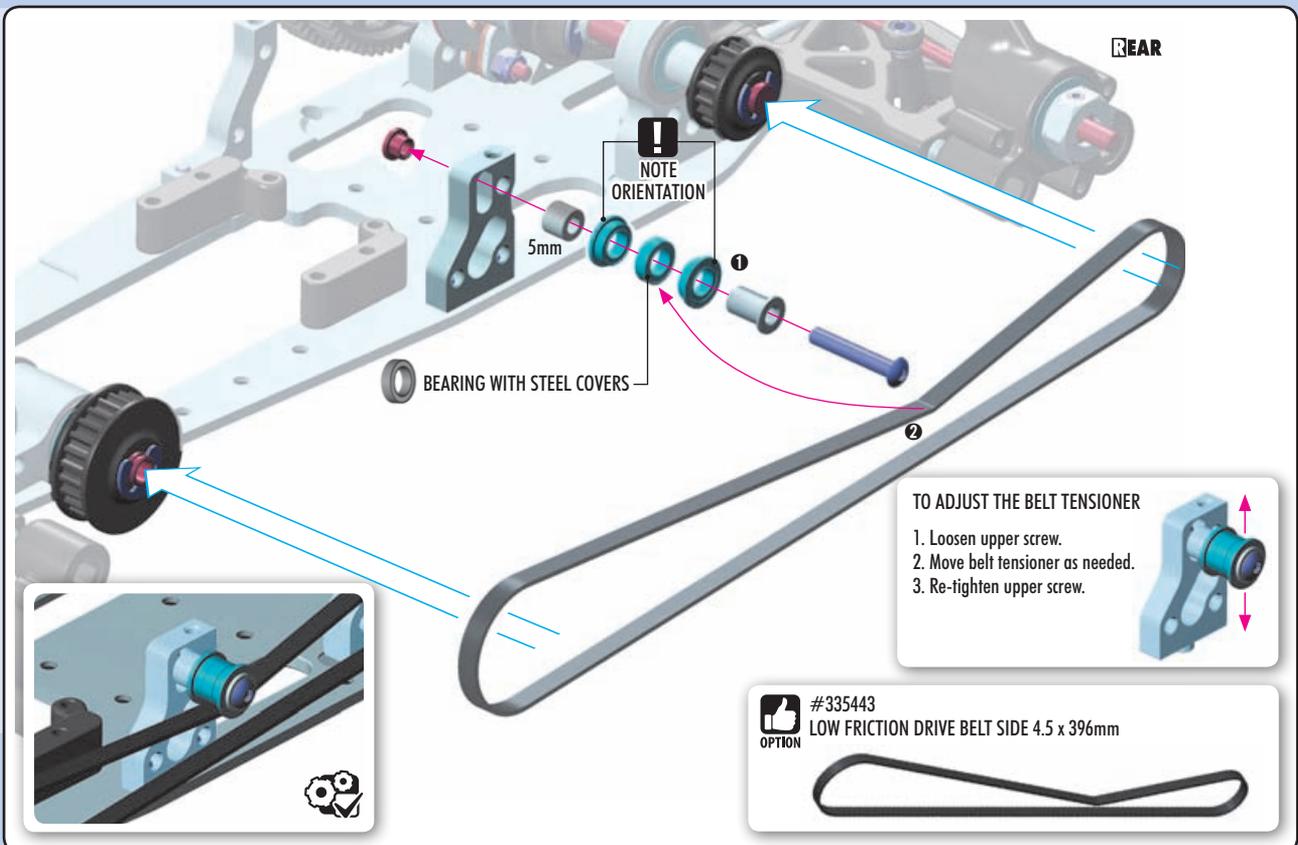
902320
SH M3x20



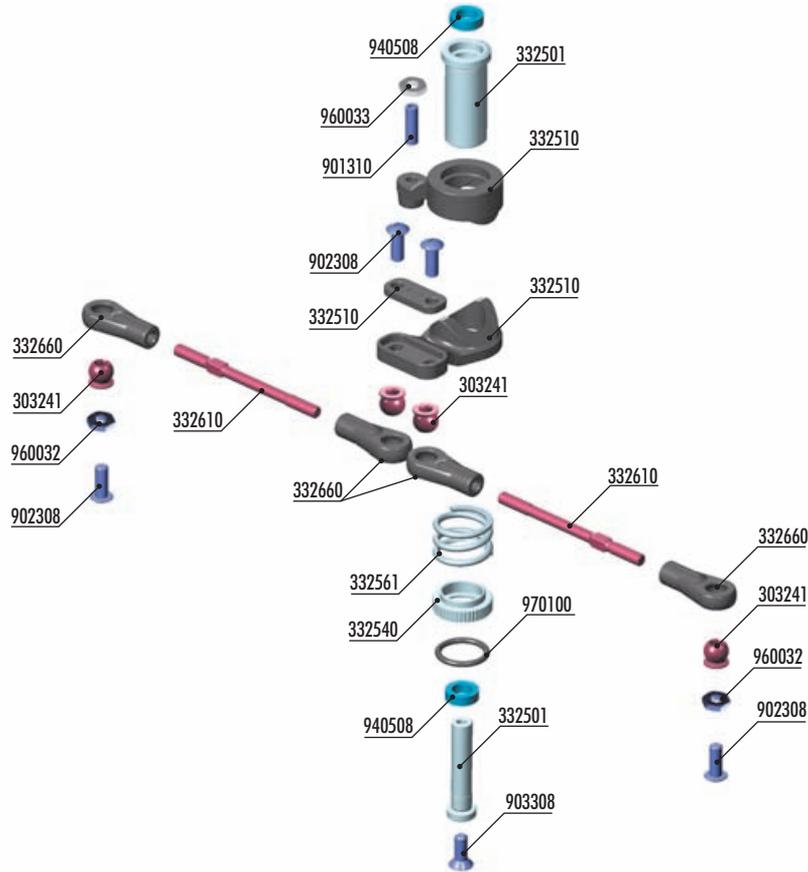
930508
BB 5x8x2.5



950508
BB 5x8x2.5



6. STEERING



BAG

06

303241	PIVOT BALL UNIVERSAL 5.8 MM WITH HEX (4)	901310	HEX SCREW SB M3x10 (10)
332501	SERVO SAVER WITH CHASSIS LOCK COMPLETE SET	902308	HEX SCREW SH M3x8 (10)
332510	COMPOSITE SERVO SAVER	903308	HEX SCREW SFH M3x8 (10)
332540	ALU SERVO SAVER ADJUSTABLE NUT	940508	BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
332561	SERVO SAVER SPRING C=14	960032	NUT M3 (10)
332610	ADJ. TURNBUCKLE L/R 42 MM - HUDY SPRING STEEL™ (2)	960033	NUT M3 - THIN (10)
332660	COMPOSITE STEERING & SERVO BALL JOINT 5.8 MM (4+2)	970100	O-RING 10 x 1.5 (10)



901310
SB M3x10



960033
N M3



970100
O 10x1.5

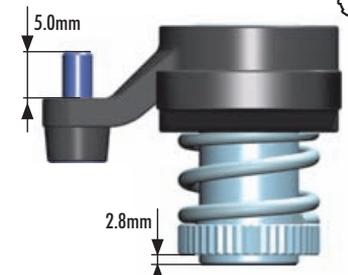
M3 THIN (SILVER)



STEP 1 DETAIL



INITIAL PRELOAD



Tightening the nut makes the servo saver work harder. A harder servo saver gives the car better in-corner steering and steering response. However, it increases the risk of breaking the servo in serious crashes.

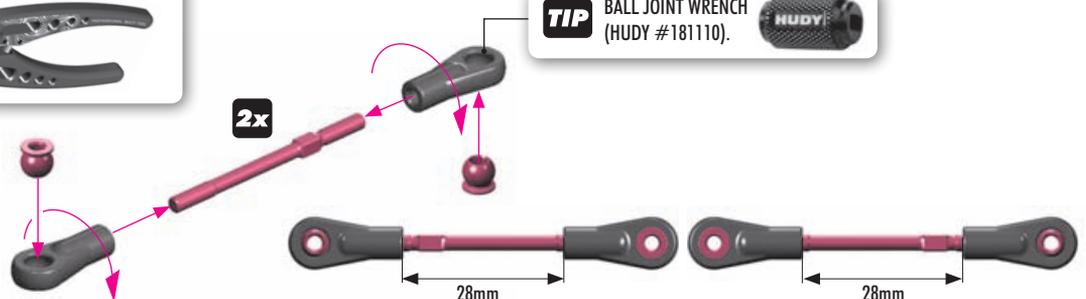


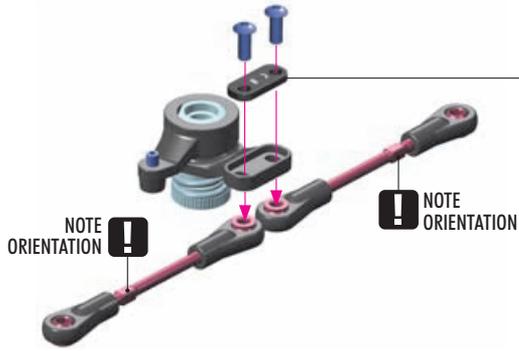
303241
BALL 5.8

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



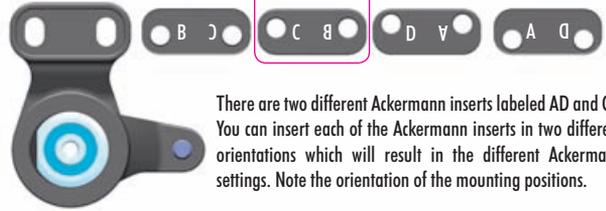
TIP BALL JOINT WRENCH (HUDY #181110).



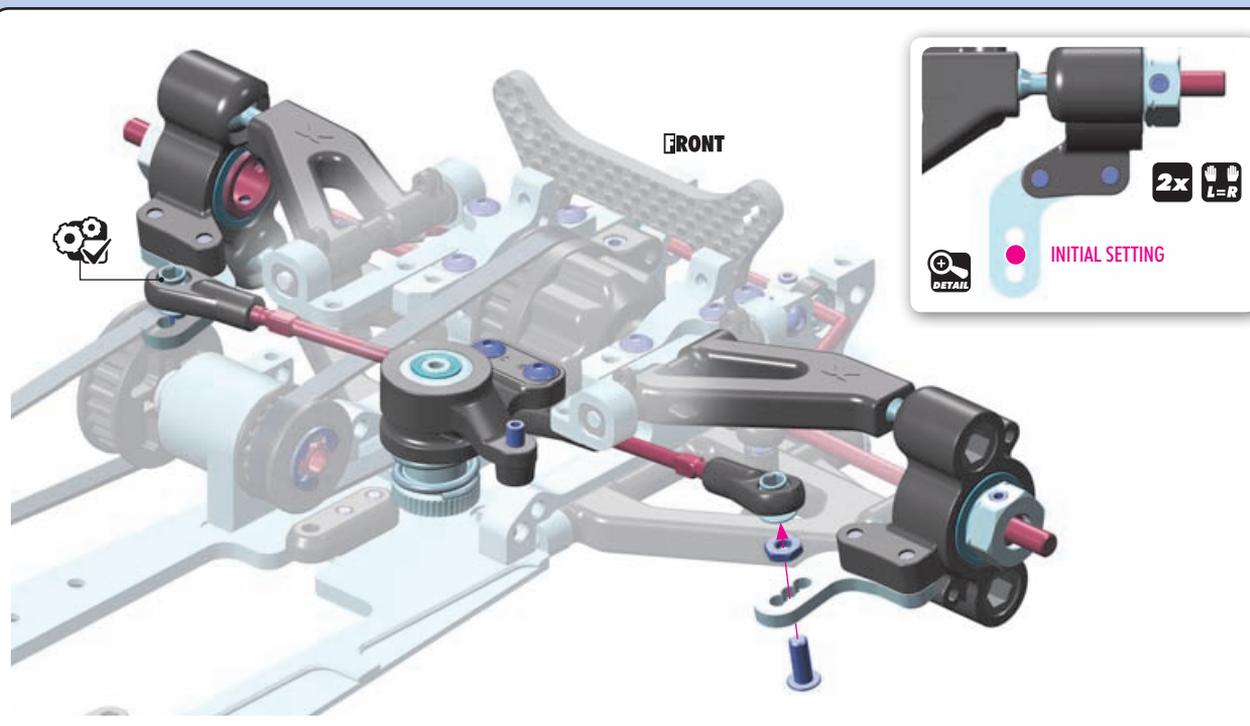
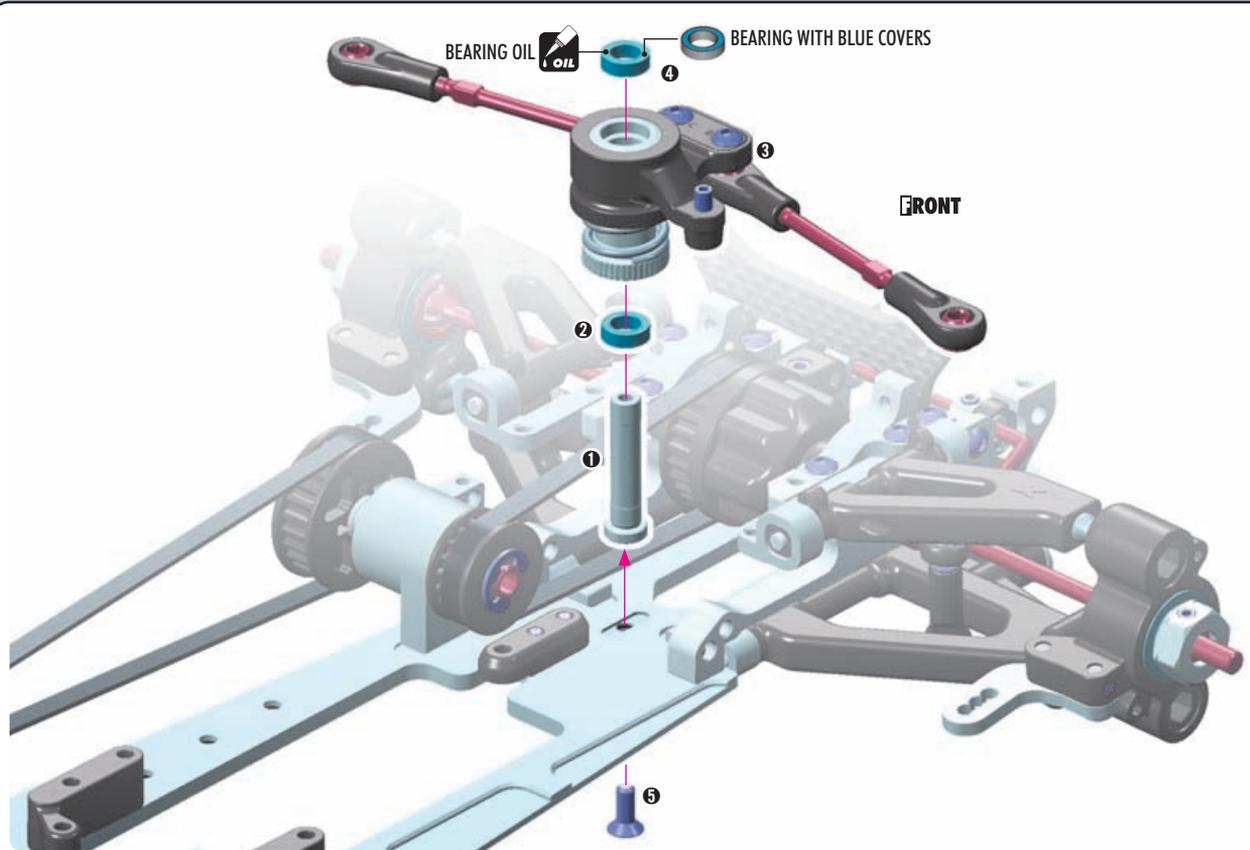


ACKERMANN SETTINGS

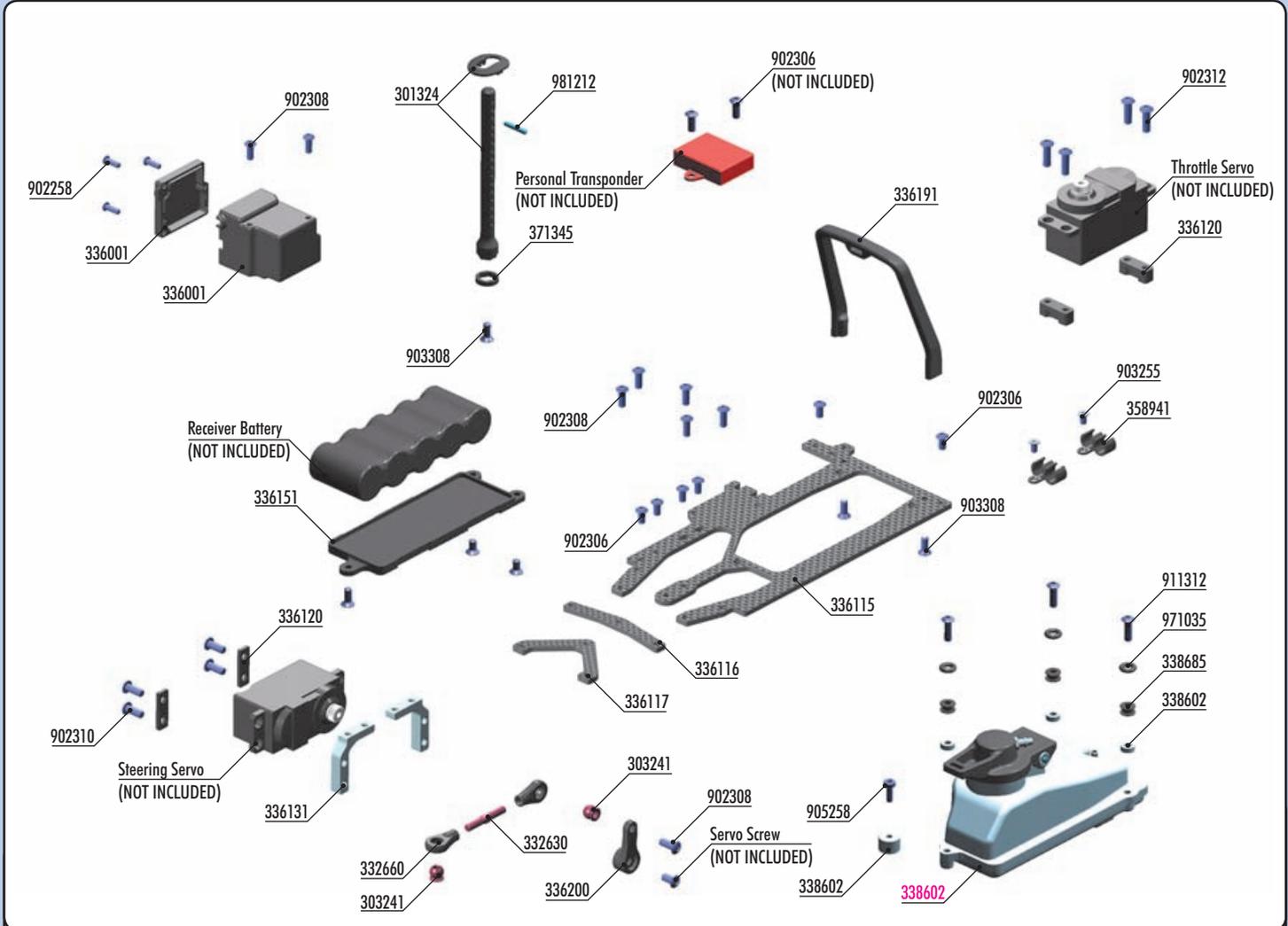
INITIAL SETTING



There are two different Ackermann inserts labeled AD and CB. You can insert each of the Ackermann inserts in two different orientations which will result in the different Ackermann settings. Note the orientation of the mounting positions.



7. FUEL TANK & ELECTRONICS



BAG

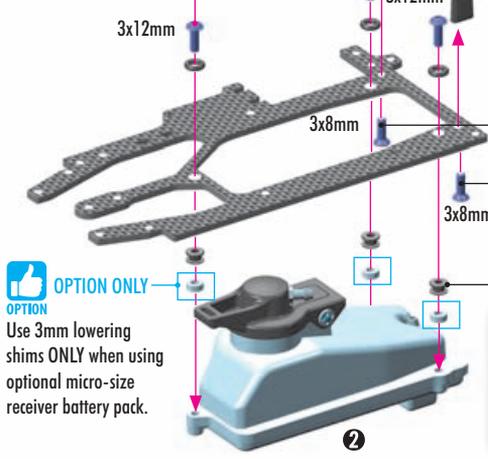


301324	FRONT BODY MOUNT SET +2MM HEIGHT	336151	COMPOSITE BATTERY PLATE	902308	HEX SCREW SH M3x8 (10)
303241	BALL UNIVERSAL 5.8 MM HEX (4)	336191	COMPOSITE ROLL-OVER BAR WITH EYELET	902310	HEX SCREW SH M3x10 (10)
332630	ADJ. TURNBUCKLE L/R 22 MM - HUDY SPRING STEEL™ (2)	336200	STEERING SERVO ARMS - SET	902312	HEX SCREW SH M3x12 (10)
332660	COMPOSITE STEERING & SERVO BALL JOINT 5.8 MM (4+2)	338602	FUEL TANK 75CC - SET - V3	903255	HEX SCREW SFH M2.5x5 (10)
336001	COMPOSITE RECEIVER CASE - COMPACT SIZE	338685	FUEL TANK MOUNTING GROMMET (3)	903306	HEX SCREW SFH M3x6 (10)
336115	GRAPHITE RADIO PLATE - MULTI-FLEX™	358941	COMPOSITE TUBING HOLDER FOR FUEL TANK (2)	903308	HEX SCREW SFH M3x8 (10)
336116	GRAPHITE FRONT UPPER BRACE	371345	COMPOSITE SHIM FOR BODY POST (2)	905258	SCREW PHILLIPS 2.5x8 (10)
336117	GRAPHITE FRONT UPPER BRACE - TRIANGLE	902258		911312	HEX SCREW FL. SH M3x12 (10)
336120	COMPOSITE STEERING SERVO HOLDER - SET	902306		971035	SILICONE O-RING 3.5x2 (10)
336131	ALU STEERING SERVO MOUNT - BLACK (2)	981212		981212	PIN 2x12 (10)



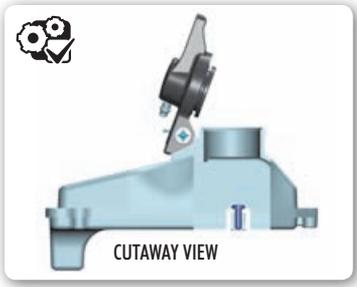
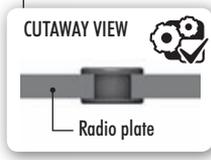
IMPORTANT!

Tighten the screws gently to make sure that the O-ring does not bind. The purpose of the O-rings is to allow movement of the fuel tank in all directions.



Ensure that bar is square with radio plate.

IMPORTANT! Do not tight fully, is important that the bar has some play. If the bar is tightened too much, it can tweak the radio plate.



7. FUEL TANK & ELECTRONICS

NOTE ORIENTATION

RIGHT THREAD

LEFT THREAD

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

11mm

Note the 90° angle difference between the ball joints.

- 902308 SH M3x8
- 902310 SH M3x10

3x10mm

Use for offset servo adjustment.

Use appropriate servo arm:
 K - (23T)
 H - (24T)
 F - (25T)

Servo screw (NOT INCLUDED)

DETAIL Use different servo shims depending on your steering servo.

E	D	C
2.5mm	1.5mm	1mm

OPTION HUDY

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

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

- 902306 SH M3x6
- 902312 SH M3x12
- 903308 SFH M3x8
- 981212 P 2x12

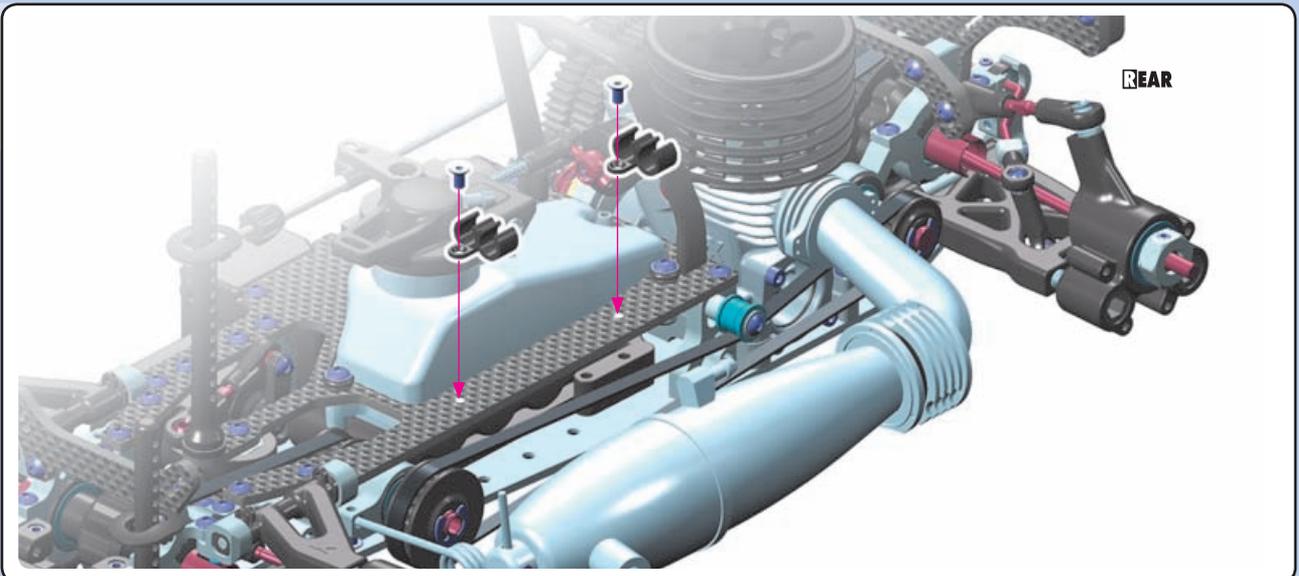
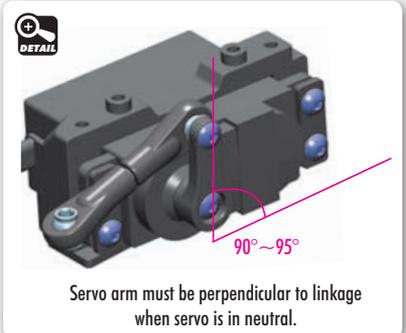
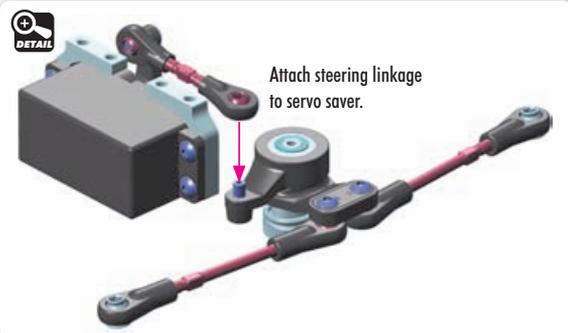
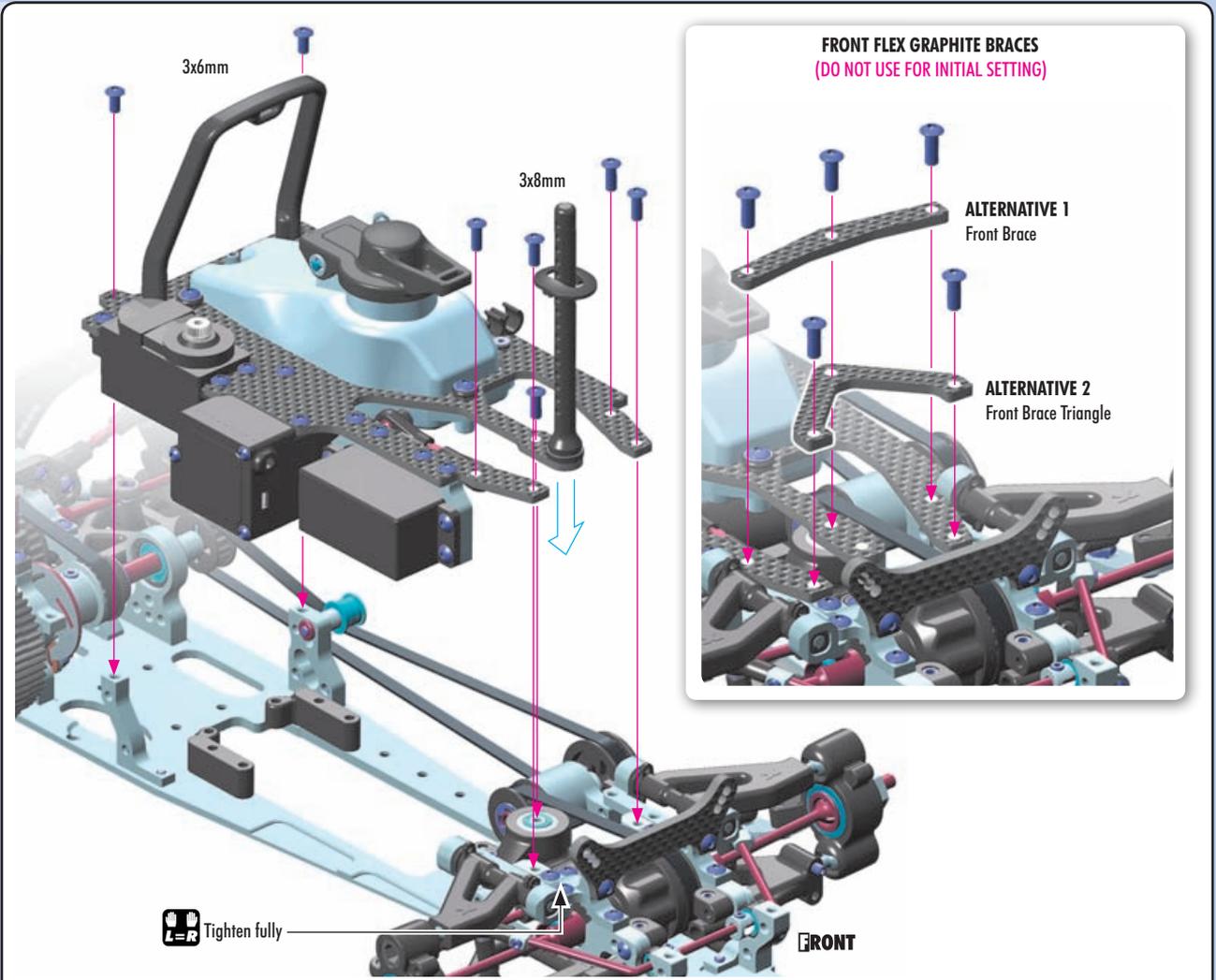
3x12mm

3x12mm

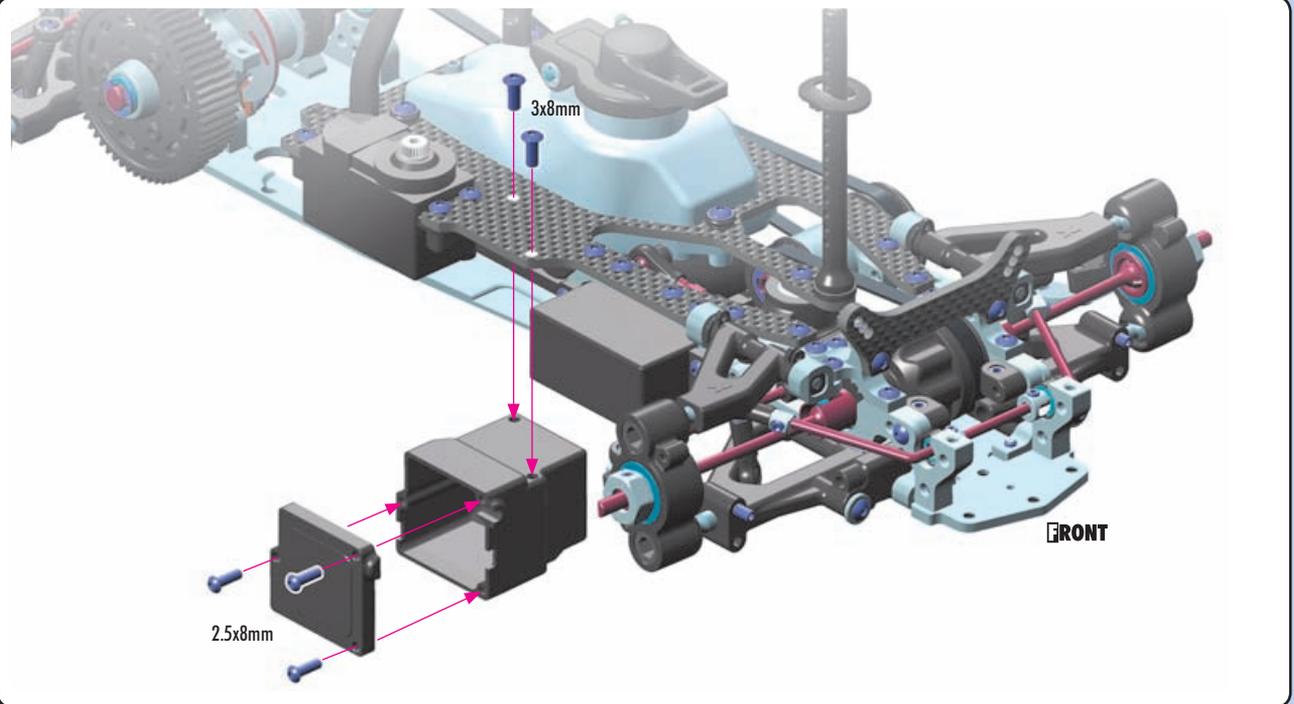
3x6mm

NOTE ORIENTATION

7. FUEL TANK & ELECTRONICS



7. FUEL TANK & ELECTRONICS

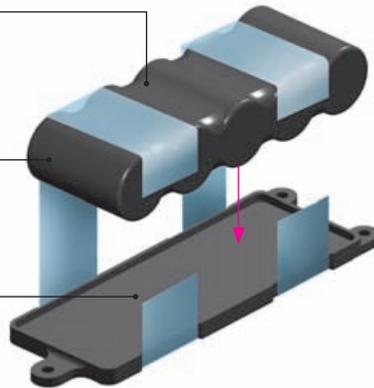


Use an appropriate receiver battery pack.

The NT1 accommodates standard 5-cell receiver packs or optional micro-size packs.

Battery (NOT INCLUDED)

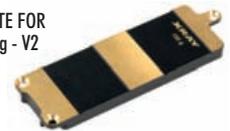
Use tape to mount the receiver battery pack to the lower holder.



#107870
OPTION HUDY FIBRE-REINFORCED TAPE - BLACK



#336156
OPTION BRASS BATTERY PLATE FOR LIPO BATTERIES-100g - V2



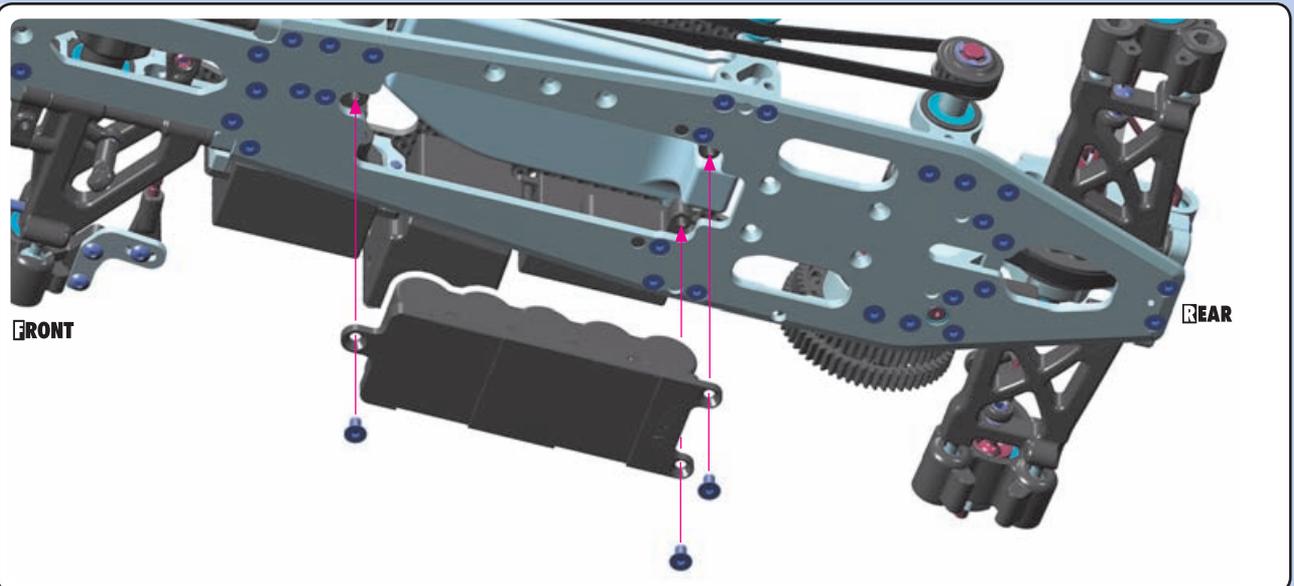
#336155
OPTION GRAPHITE BATTERY PLATE - V2



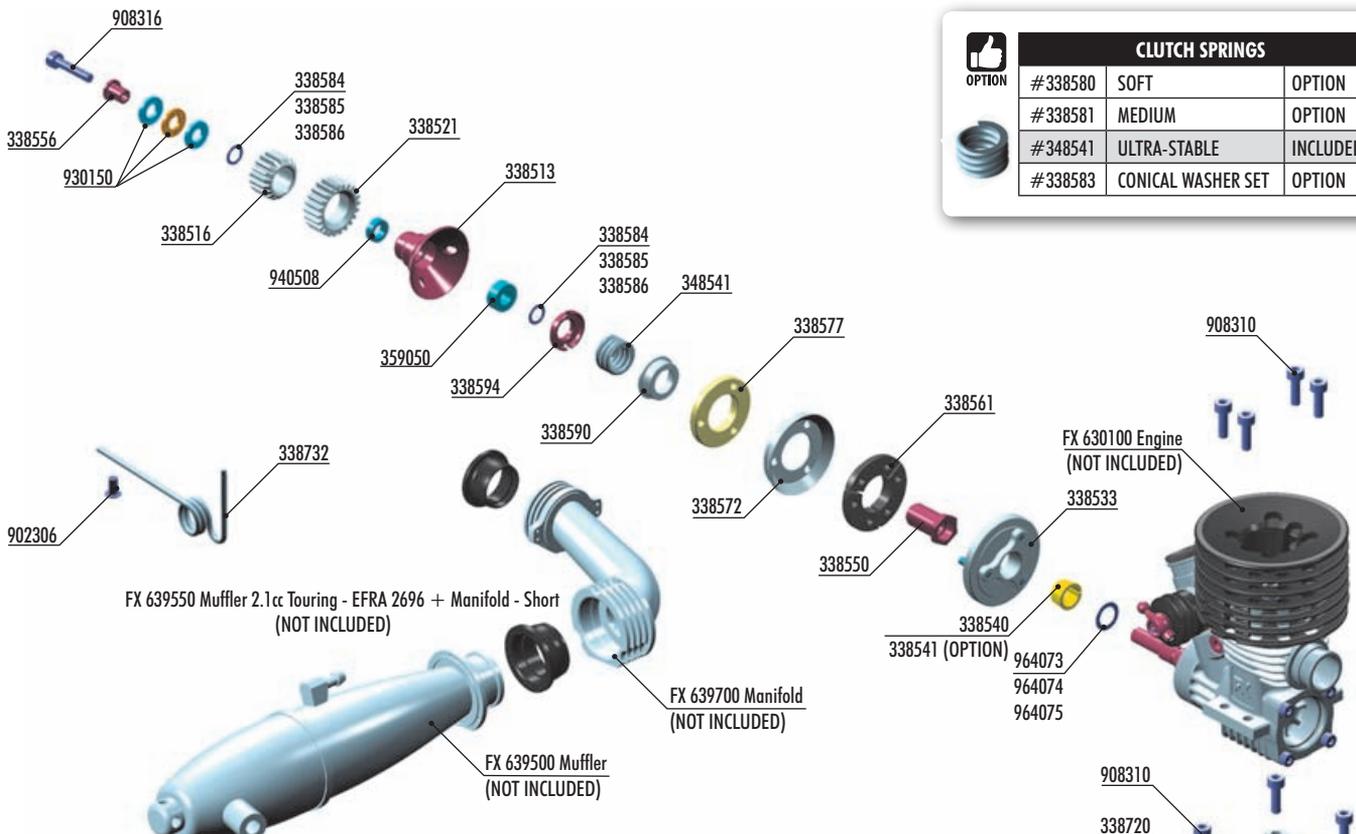
The battery holder has a direct effect on chassis flex and car weight.

Use the GRAPHITE battery plate to slightly stiffen the chassis flex for better stability.

Use the BRASS battery plate to stiffen the chassis flex and increase weight. Recommended for high-traction tracks or soft tires (or tires with additive) to reduce traction roll and make the car easier to drive.



8. ENGINE & CLUTCH



CLUTCH SPRINGS		
 #338580	SOFT	OPTION
#338581	MEDIUM	OPTION
#348541	ULTRA-STABLE	INCLUDED
#338583	CONICAL WASHER SET	OPTION

FX 639550 Muffler 2.1cc Touring - EFRA 2696 + Manifold - Short (NOT INCLUDED)

FX 639700 Manifold (NOT INCLUDED)

FX 639500 Muffler (NOT INCLUDED)

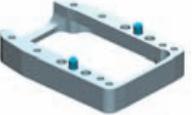
Screw (NOT INCLUDED)

XRAY FLYWHEEL COLLAR		
 #338540	ø7.0mm	INCLUDED
#338541	ø6.0mm	OPTION

 #338721
BRASS 1-PIECE ENGINE MOUNT



 #338713
ALU MONOBLOCK ENGINE MOUNT



 #338578
CLUTCH SHOE - HIGH-DYNAMIC - RED



 #338515

1ST PINION GEARS - XCA HARDCOATED		
#338515	15T (1st)	OPTION
#338516	16T (1st)	INCLUDED
#338517	17T (1st)	OPTION
#338518	18T (1st)	OPTION
#338519	19T (1st)	OPTION

 #338520

2ND PINION GEARS - XCA HARDCOATED		
#338520	20T (2nd)	OPTION
#338521	21T (2nd)	INCLUDED
#338522	22T (2nd)	OPTION
#338523	23T (2nd)	OPTION
#338524	24T (2nd)	OPTION
#338525	25T (2nd)	OPTION

 #338514
ALU NICKEL-COATED LIGHTWEIGHT CLUTCH BELL 26MM - HIGH-DYNAMIC



BAG
08

338503	XCA ALU NICKEL COATED CLUTCH - SET - ULTRA STABLE	338720	ALU STAND FOR ENGINE MOUNT (2)
338513	XCA CLUTCHBELL - HIGH DYNAMIC - HUDY STEEL	338722	ALU ENGINE MOUNTS - LOWER (L+R)
338516	XCA ALU 7075 T6 HARDCOATED PINION GEAR - 16T (1ST)	338732	EXHAUST MOUNTING WIRE - EXTRA-LONG
338521	XCA ALU 7075 T6 HARDCOATED PINION GEAR - 21T (2ND)	348541	CLUTCH SPRING - ULTRA-STABLE
338533	FLYWHEEL REVERSE - FLAT - ALU 7075 T6 - HARDCOATED - 32MM		
338540	FLYWHEEL COLLAR 7MM - NOVAROSI	359050	BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)
338541	FLYWHEEL COLLAR 6MM - PICCO (OPTION)		
338550	FLYWHEEL NUT - HUDY SPRING STEEL™	902306	HEX SCREW SH M3x6 (10)
338556	CLUTCH BELL BUSHING - HUDY SPRING STEEL™	903310	HEX SCREW SFH M3x10 (10)
338561	CLUTCH FLYWEIGHT SET - HIGH DYNAMIC	908310	HEX SCREW SOCKET HEAD CAP M3x10 (10)
338572	ALU CLUTCH DISK - CONICAL - SWISS 7075 T6	908316	HEX SCREW SOCKET HEAD CAP M3x16 (10)
338577	CLUTCH SHOE - HIGH DYNAMIC - YELLOW	930150	CARBIDE BALL-BEARING AXIAL F5-10 5x10x4
338584	SHIM 5x7x0.2 (10)	940508	BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
338585	SHIM 5x7x0.3 (10)	964073	WASHER S 7x10x0.2 (10)
338586	SHIM 5x7x0.5 (10)	964074	WASHER S 7x10x0.3 (10)
338590	CLUTCH SPRING CUP - ALU 7075 T6	964075	WASHER S 7x10x0.5 (10)
338594	CLUTCH PRELOAD ADJ. NUT - HUDY SPRING STEEL™		

8. ENGINE & CLUTCH



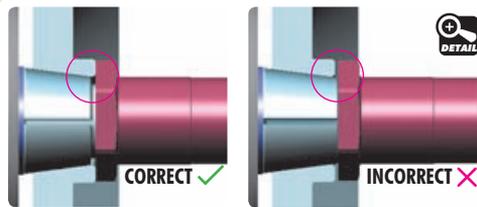
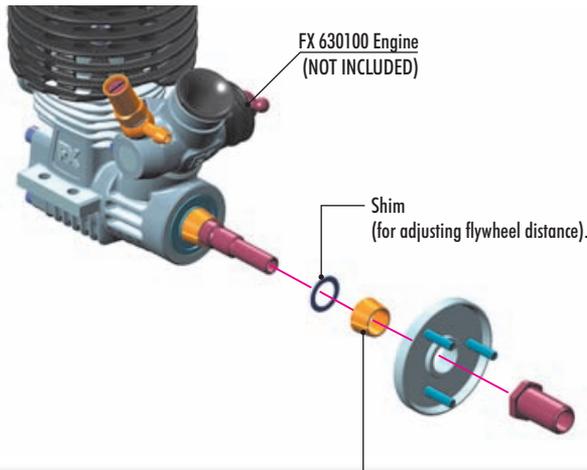
964073
5.7x10x0.2



964074
5.7x10x0.3



964075
5.7x10x0.5



The flywheel collar must stay inside the flywheel.

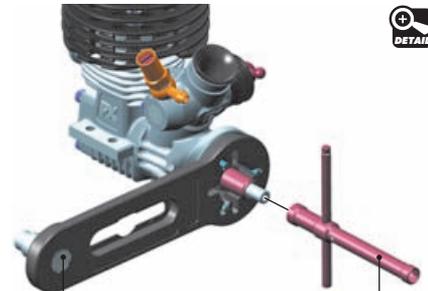
If the flywheel collar is too long – if it is flush with the flywheel or protrudes slightly – remove a small amount of material from the end, or use an XRAY collar.



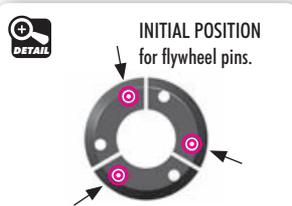
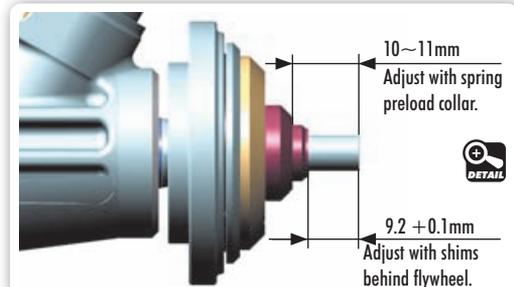
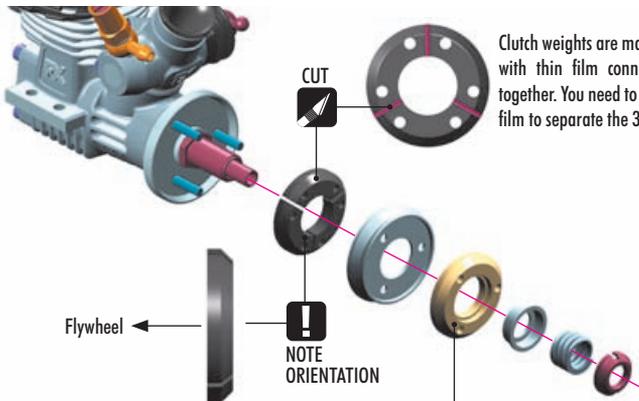
XRAY FLYWHEEL COLLAR		
#338540	ø7.0mm	INCLUDED
#338541	ø6.0mm	OPTION



Use the flywheel collar that comes with your engine, or use XRAY collars.



Tighten the clutch nut using HUDY tool #107581.



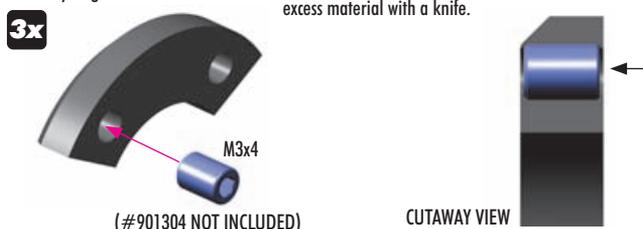
CLUTCH SPRINGS		
#338580	SOFT	OPTION
#338581	MEDIUM	OPTION
#348541	ULTRA-STABLE	INCLUDED
#338583	CONICAL WASHER SET	OPTION

TECH TIP FOR EXTRA BOTTOM-END POWER

For extra bottom-end power, thread a M3x4 setscrew (#901304) into each clutch flyweight as shown. The set-screw will add more weight to the end of the flyweight which will cause the flyweight to open harder, giving more bottom-end power. This is recommended for high-traction tracks where bottom-end power is required.

IMPORTANT!
Install set-screw into free (non-pivot) end of flyweight.

After inserting the set-screw, some excess material may come out of the hole. REMOVE this excess material with a knife.



TECH TIP FOR NT1 CLUTCH SHOE

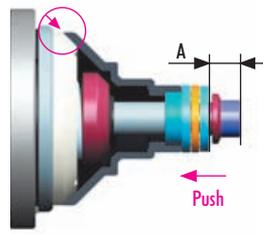
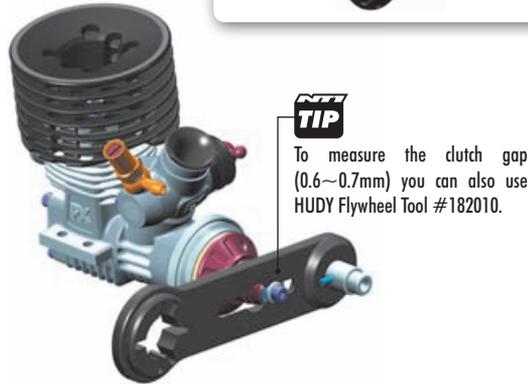
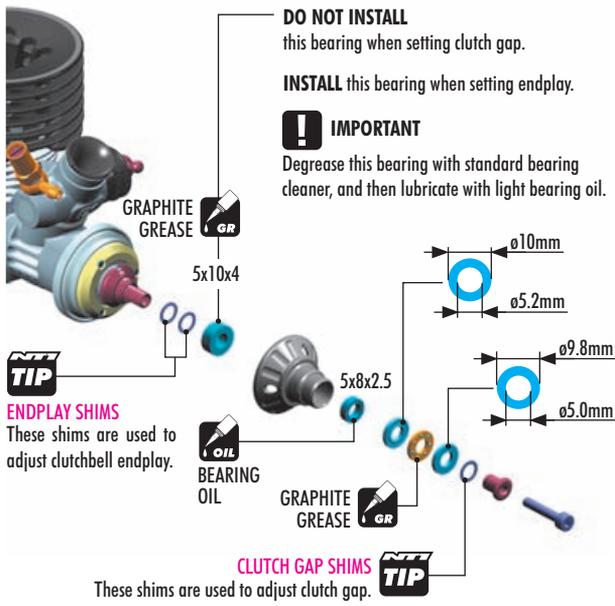
To ensure that the NT1 clutch shoe works properly and for a long time, it is very important to run in the clutch shoe.



Please follow these run-in steps to help ensure proper clutch operation:

- 1 Install clutch according to this Instruction Manual.
- 2 Check that the spring preload is not too much; for run-in process use less preload.
- 3 When you start the engine, the clutch should start to engage under low RPM. If the clutch engages only under high RPM, stop the engine and loosen the spring preload collar. Repeat until the clutch engages under low RPM.
- 4 Run in the clutch shoe on the track, or on the starter box if you have only limited time. (We recommend running it in on the track).
- 5 Run in the clutch shoe for 1 tank of fuel using a soft preload setting, and then after that slightly tighten the spring preload. DO NOT run in the clutch shoe under high RPM.
- 6 Continue this process until the clutch shoe is properly run in; this will be indicated by a dark and glossy surface colour on the top of the clutch shoe.

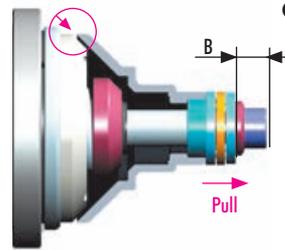
8. ENGINE & CLUTCH



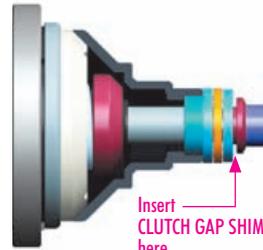
(1) ADJUSTING THE CLUTCH GAP

1 Install the clutchbell, outer ball-bearing (small), and thrust-bearing assembly on the engine crankshaft. **DO NOT** install the inner ball-bearing or internal shims.

Push the clutchbell onto the clutch shoe and measure distance A as indicated.



2 Pull the clutchbell away from the clutch shoe and measure distance B as indicated.



3 The clutch gap is A - B; the correct gap is 0.6-0.7mm

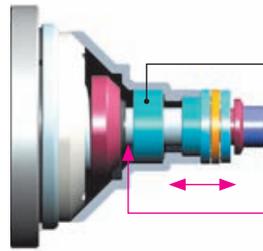
If the clutch gap is greater than this, you can easily calculate the thickness of shims required to set correct gap:

$$\text{Thickness of shims required (in mm)} = A - B - 0.7$$

For example, using the values A=5.5mm, B=4.5mm

$$\text{Shim thickness} = 5.5 - 4.5 - 0.7 = 0.3\text{mm}$$

Place shims on the small collar, outside the thrustbearing assembly.

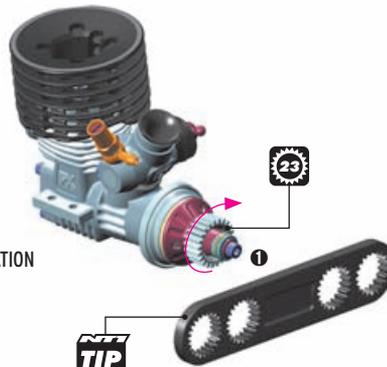
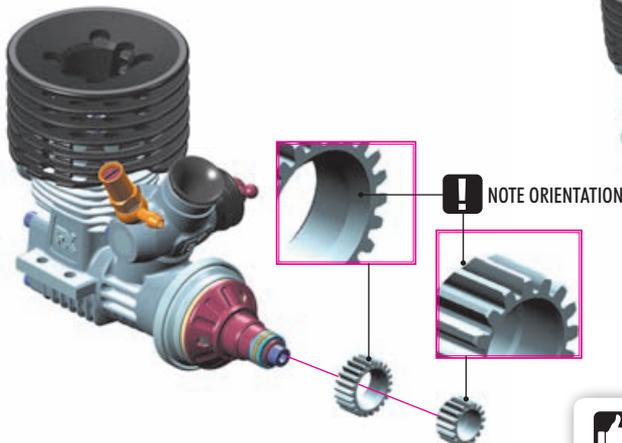


(2) ADJUSTING THE ENDPLAY

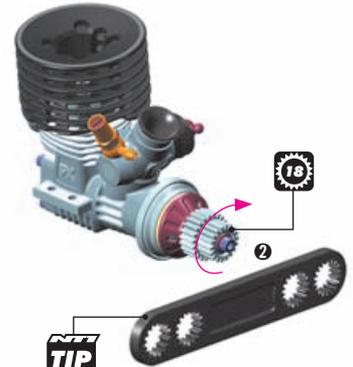
Measure endplay with this bearing installed.

Apply shims on crankshaft to set endplay to 0.05-0.15mm.

Insert **ENDPLAY SHIMS** here (approximately 0.7~1.0mm).



To tighten the 23T pinion gear use the optional #339901 XRAY NT1 Pinion Tool (20~23T; 15~18T).



To tighten the 18T pinion gear use the optional #339901 XRAY NT1 Pinion Tool (20~23T; 15~18T).

OPTION	2ND PINION GEARS - XCA HARDCOATED		
#338520	20T (2nd)	OPTION	
#338521	21T (2nd)	INCLUDED	
#338522	22T (2nd)	OPTION	
#338523	23T (2nd)	OPTION	
#338524	24T (2nd)	OPTION	

OPTION	1ST PINION GEARS - XCA HARDCOATED		
#338515	15T (1st)	OPTION	
#338516	16T (1st)	INCLUDED	
#338517	17T (1st)	OPTION	
#338518	18T (1st)	OPTION	

8. ENGINE & CLUTCH



903310
SFH M3x10



908310
SCH M3x10

The engine should be installed on the split mounts as follows:

STEP 1: Attach lower mounts to chassis.

STEP 2: Attach upper mounts to lower mounts.

STEP 3: Attach engine to upper mounts.

STEP 4: Loosen lower mount screws, adjust gear mesh, and then retighten lower mount screws.

After the gear mesh is initially set, you can remove the engine AND upper mounts as one assembly by removing the screws holding the upper mounts to the lower mounts. When re-installing the engine, you will not have to re-adjust the gear mesh.

DETAIL

Adjust gear mesh so there is minimal play between the gears.

Too **TIGHT** gear mesh will put excessive strain on all parts and damage the parts.

Too **LOOSE** gear mesh may result in stripped gears.

REAR

NOTE ORIENTATION

NOTE ORIENTATION

#338713
ALU MONOBLOCK ENGINE MOUNT
OPTION

Reinforces the chassis flex around the engine area for improved steering. **RECOMMENDED FOR MEDIUM-HIGH TRACTION TRACKS.**

#338721
BRASS 1-PIECE ENGINE MOUNT
OPTION

Reinforces the chassis flex around the engine area and moves the weight balance more to the rear for even more steering and rotation of the car. **RECOMMENDED FOR HIGH-TRACTION TRACKS.**



902306
SH M3x6

Attach manifold to engine using appropriate springs.

FRONT

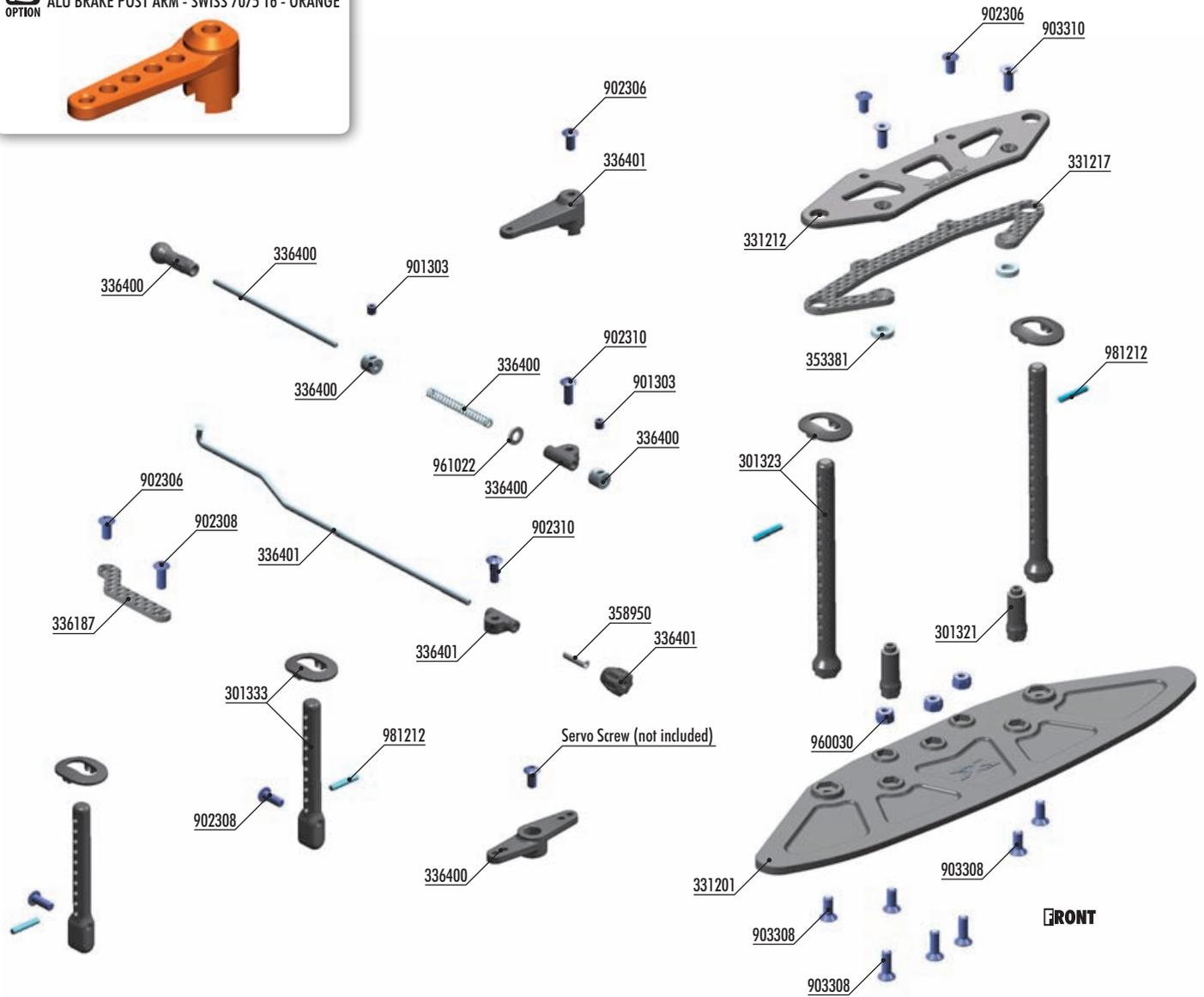
FX 639550 Muffler 2.1cc Touring - EFRA 2696 + Manifold - Short (NOT INCLUDED)

Thread lock (screw NOT INCLUDED)

9. CARB LINKAGE & BODYMOUNTS



#334061-0
ALU BRAKE POST ARM - SWISS 7075 T6 - ORANGE



FRONT BODY MOUNTS

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



#331216
GRAPHITE UPPER HOLDER FOR BUMPER 2.5MM



#331221
FOAM BUMPER FOR ANTI-ROLL BAR - HARD - V2



BAG

09

301321	COMPOSITE BRACE FOR BUMPER (2)	358951	SIL. TUBING 1M (2.4 x 5.5MM) YELLOW (OPTION)
301323	FRONT BODY MOUNT SET +1MM HEIGHT	901303	HEX SCREW SB M3x3 (10)
301333	REAR BODY MOUNT SET +1MM HEIGHT	902306	HEX SCREW SH M3x6 (10)
331201	COMPOSITE WIDE BUMPER	902308	HEX SCREW SH M3x8 (10)
331212	COMPOSITE UPPER HOLDER FOR BUMPER	902310	HEX SCREW SH M3x10 (10)
331217	GRAPHITE UPPER HOLDER FOR BUMPER - LIGHTWEIGHT	903308	HEX SCREW SFH M3x8 (10)
336187	GRAPHITE REAR STIFFENER	903310	HEX SCREW SFH M3x10 (10)
336400	THROTTLE SYSTEM SET	960030	NUT M3 (10)
336401	BRAKE SYSTEM SET	961022	WASHER S 2.2 (10)
353381	ALU SHIM 4x7.5x2 (4)	981212	PIN 2x12 (10)
358950	SILICONE TUBING 1M (2.4 x 5.5MM)		

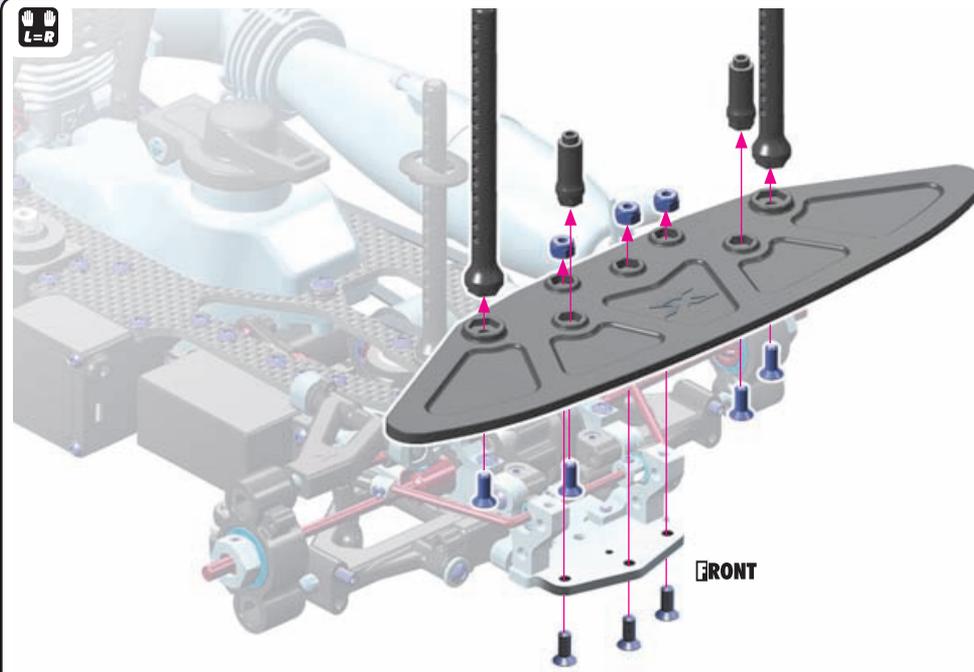
9. CARB LINKAGE & BODYMOUNTS



903308
SFH M3x8



960030
N M3



FRONT



353381
SHIM 4x7.5x2



902306
SH M3x6

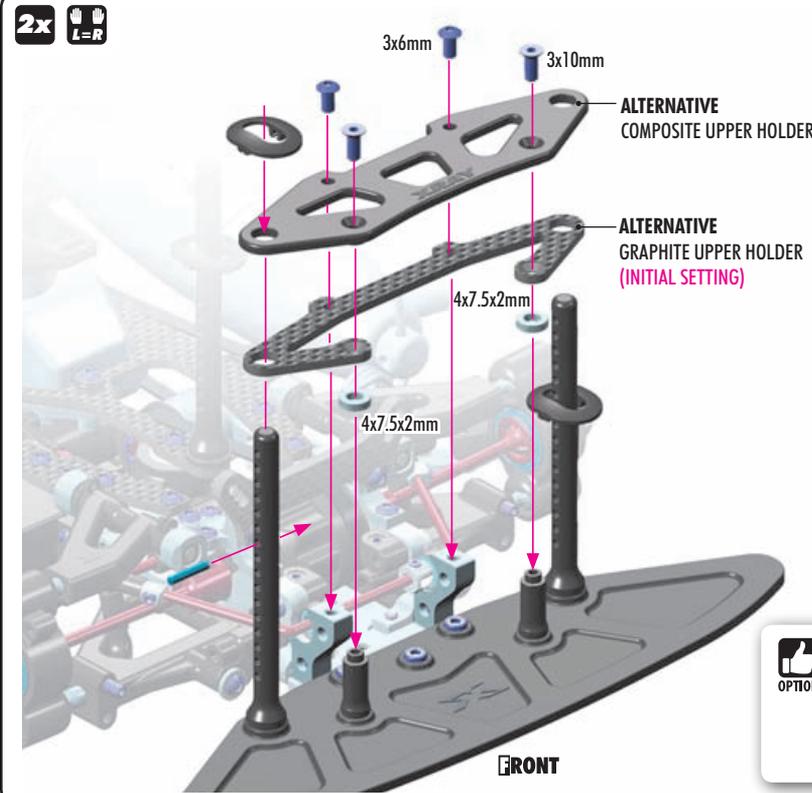


903310
SFH M3x10



981212
P 2x12

2x L=R



FRONT



#331216
GRAPHITE UPPER HOLDER FOR BUMPER 2.5MM



#331221
FOAM BUMPER FOR ANTI-ROLL BAR - HARD - V2



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



FRONT BODY MOUNTS

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

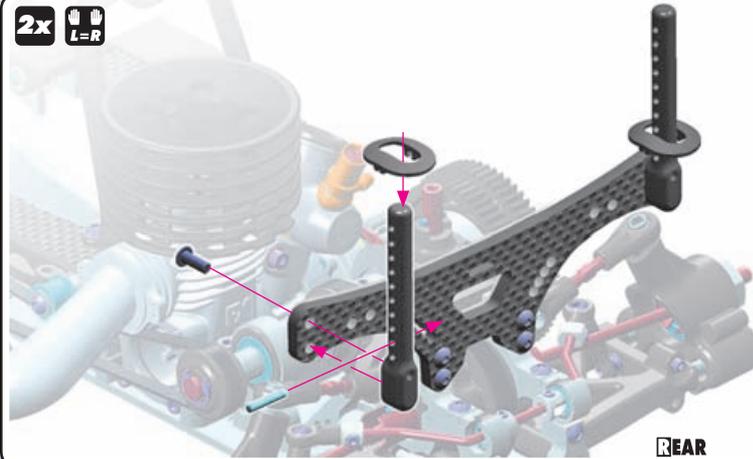


902308
SH M3x8



981212
P 2x12

2x L=R



REAR



REAR BODY MOUNTS

#301332	0mm	INCLUDED
#301333	+ 1mm	OPTION
#301334	+ 2mm	OPTION



9. CARB LINKAGE & BODYMOUNTS

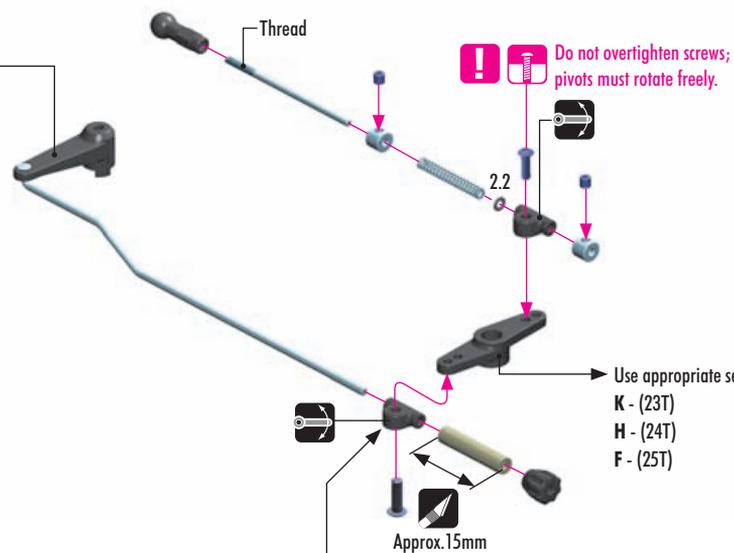
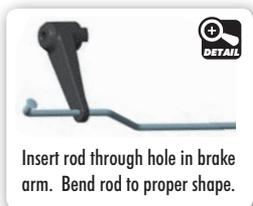
901303
SB M3x3



902310
SH M3x10



961022
S 2.2



OPTION #334061-0
ALU BRAKE POST ARM - SWISS 7075 T6 - ORANGE

OPTION HUDY CLAMP ALU SERVO HORNS

#293441	23T
#293442	24T
#293443	25T

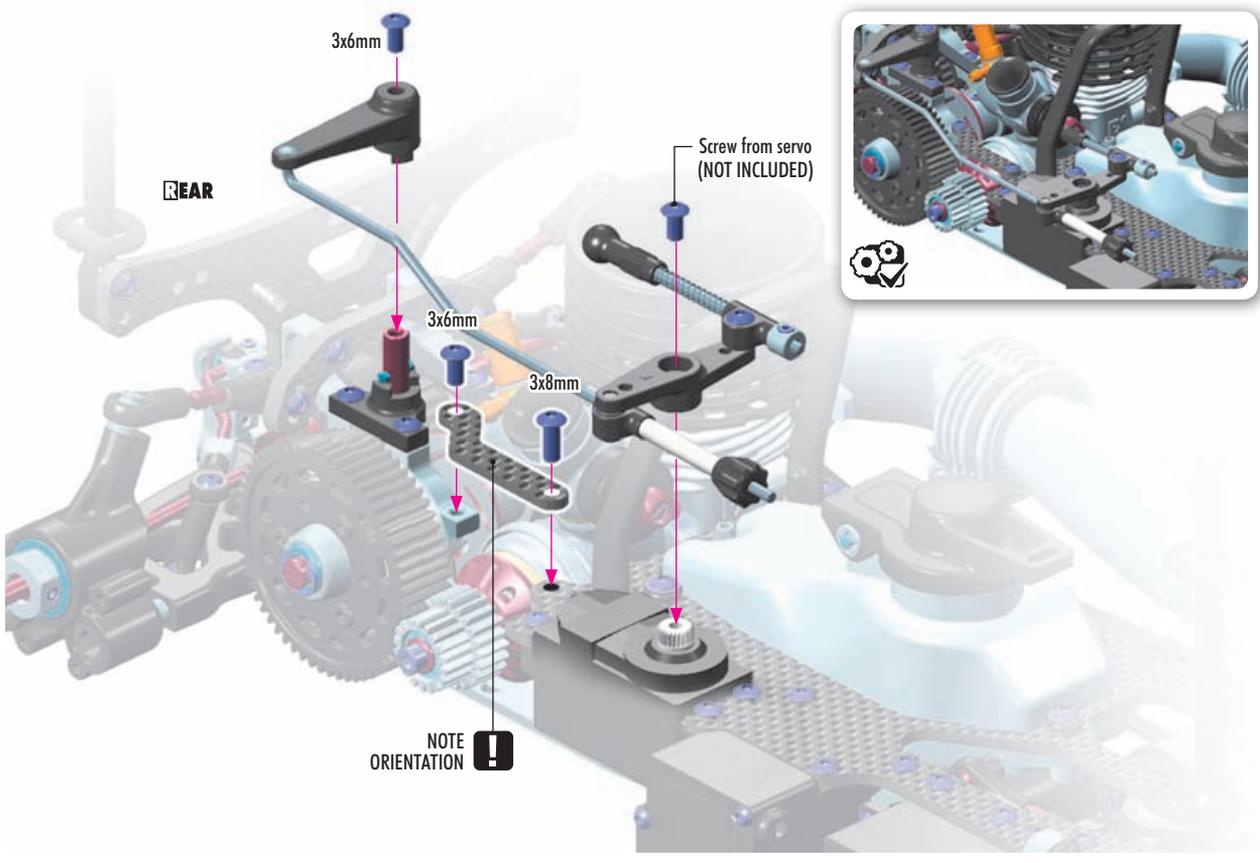
OPTION HUDY ALU SERVO HORNS

#293494	23T
#293495	24T
#293496	25T

IMPORTANT:
The composite holders and servo horn orientation depend on the servo type and servo position which can be mounted either from top of the radio plate or from the bottom.

902306
SH M3x6

902308
SH M3x8



10. SHOCK ABSORBERS

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

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

DO NOT USE CROSSED-OUT PARTS

308352-K, 303241, 308331, 308091 (OPTION), 308081, 965023, 338061, 338021, 972030, 308327-K, 308040-K, C=4.5 FRONT - LONG 338287, 308335 FRONT, 308331 REAR, 303241, 308316, C=4.0 REAR - LONG 338296, 970121, 308036, 1.0, 1.1, 1.2

BAG 10	303241 BALL UNIVERSAL 5.8 MM HEX (4)	338001-K ALU SHOCK ABSORBER-SET - BLACK (2)
	308036 COMPOSITE NON-ADJUSTABLE PISTONS - DELRIN - V3	338021 ALU SHOCK BODY (2)
	308040-K SHOCK ADJ. NUT ALU + O-RING - BLACK (4)	338061 HARDENED SHOCK SHAFT (2)
	308081 SHOCK ABSORBER MEMBRANE - LOW (4)	965023 E-CLIP 2.3 (10)
	308091 SHOCK FOAM INSERTS - LOW (4) (OPTION)	970121 O-RING 12.1x1.6 (10)
	308316 COMPOSITE SHOCK BALL JOINT - OPEN (4)	972030 SILICONE O-RING 3x2 (10)
	308327-K ALU CAP FOR XRAY SHOCK BODY - BLACK (2)	338287 SPRING-SET C=4.5 - MEDIUM-MEDIUM HARD (2)
	308331 COMPOSITE FRAME SHOCK PARTS 4-STEP - SHORT	338296 SPRING-SET C=4.0 - MEDIUM (2)
	308335 ULP COMPOSITE SHOCK PARTS WITH 2 HOLES	
	308352-K ALU SHOCK CAP-NUT WITH HOLE - BLACK (2)	

965023
C 2.3

4x

DETAIL

1.0
1.1
1.2

4x 1.1 INITIAL SETTING
1.2

972030
O 3x2

4x

SHOCK OIL

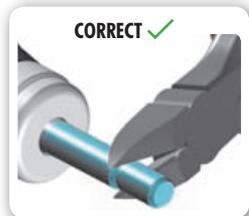
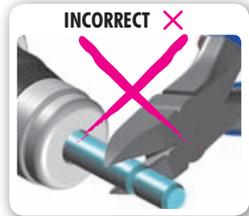
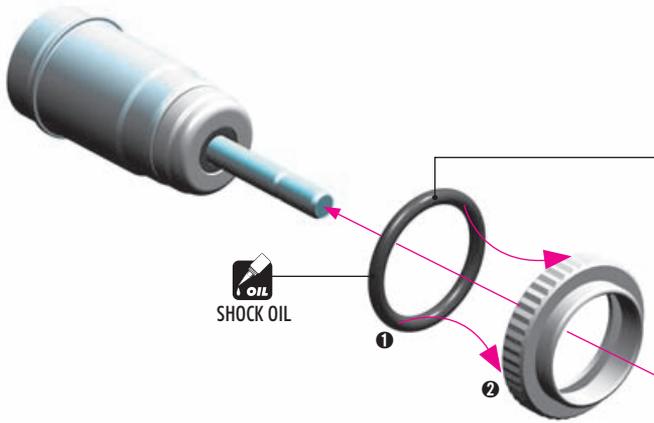
NOTE ORIENTATION

DO NOT USE CROSSED-OUT PARTS

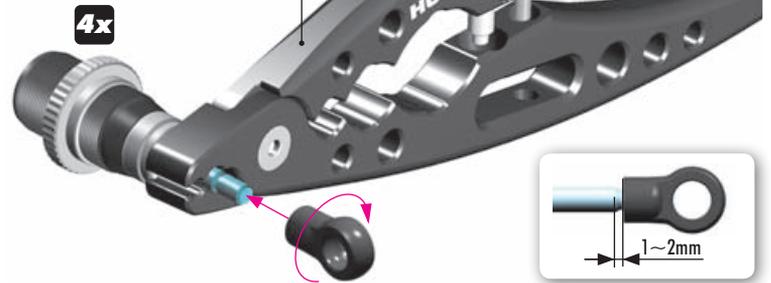
10. SHOCK ABSORBERS



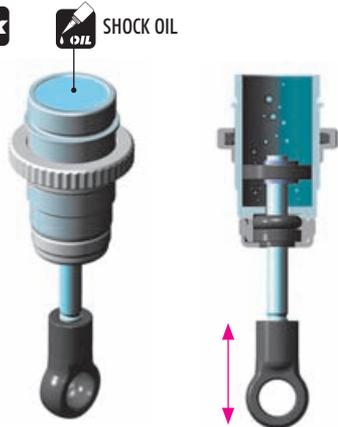
4x



TIP Install the ball joint with Professional Multi Tool (HUDY #183011).



4x

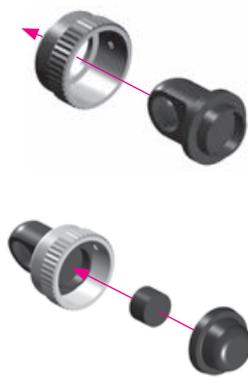


SHOCK FILLING

- 1 Fully extend the piston rod so the piston is at the bottom of the shock body.
- 2 Hold the shock upright and slightly overfill the shock body with shock oil.
- 3 Let the oil settle and allow air bubbles to rise to the top. Slowly move the piston up and down until no more air bubbles appear. Add shock oil as necessary.
- 4 Pull 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.

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

4x



CUTAWAY VIEW



After you insert the membrane ensure that it sits properly all around the alu cup properly.

4x



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

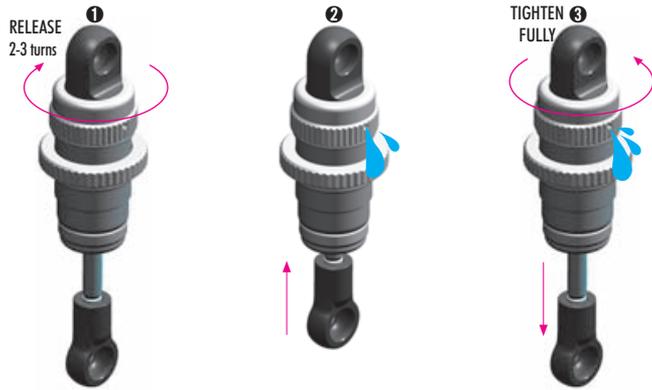
Fully tighten the cap and clean off any excess oil.

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

Follow the next procedure to adjust the rebound.

10. SHOCK ABSORBERS

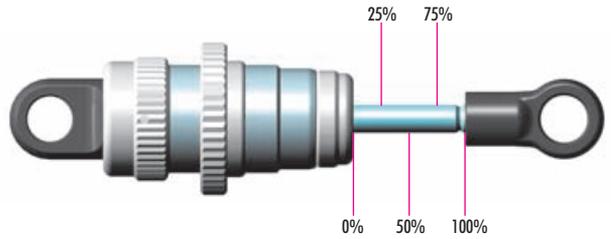
4x



REBOUND ADJUSTMENT

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

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



REBOUND CHECK

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

- 100% rebound - repeat step 2 and 3 two - three times
- 75% rebound - repeat step 2 and 3 until the shock shaft will push out 75% of its length
- 50% rebound - repeat step 2 and 3 until the shock shaft will push out 50% of its length
- 25% rebound - repeat step 2 and 3 until the shock shaft will push out 25% of its length
- 0% rebound - repeat step 2 and 3 until the shock shaft will push out 0% of its length

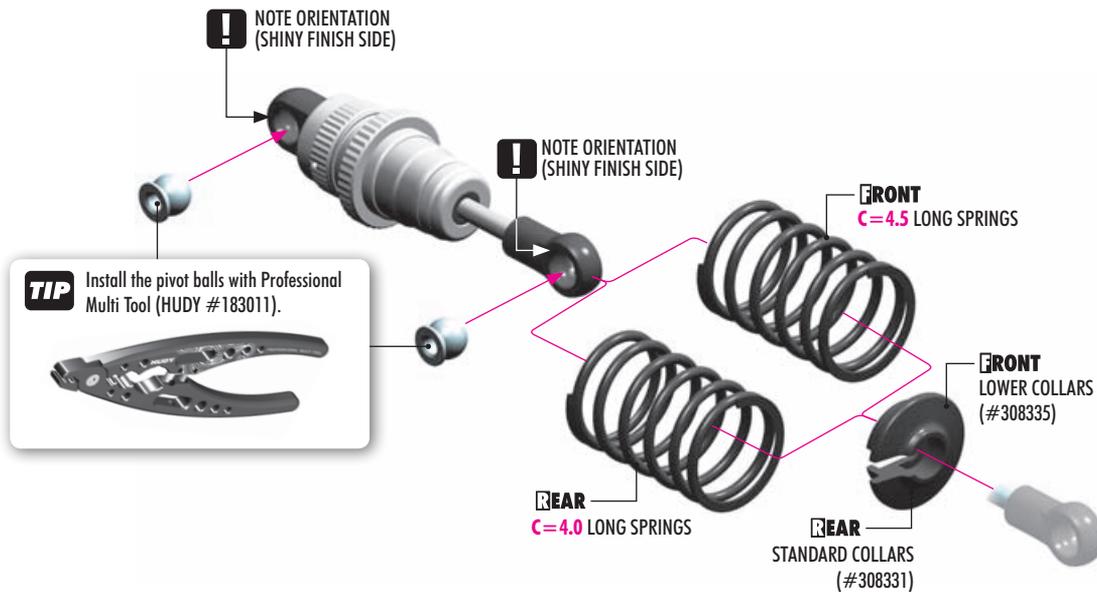
If the shock shaft does not rebound enough, you will have to refill the shock with shock oil, and then repeat the bleeding and rebound adjustment procedure.

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.



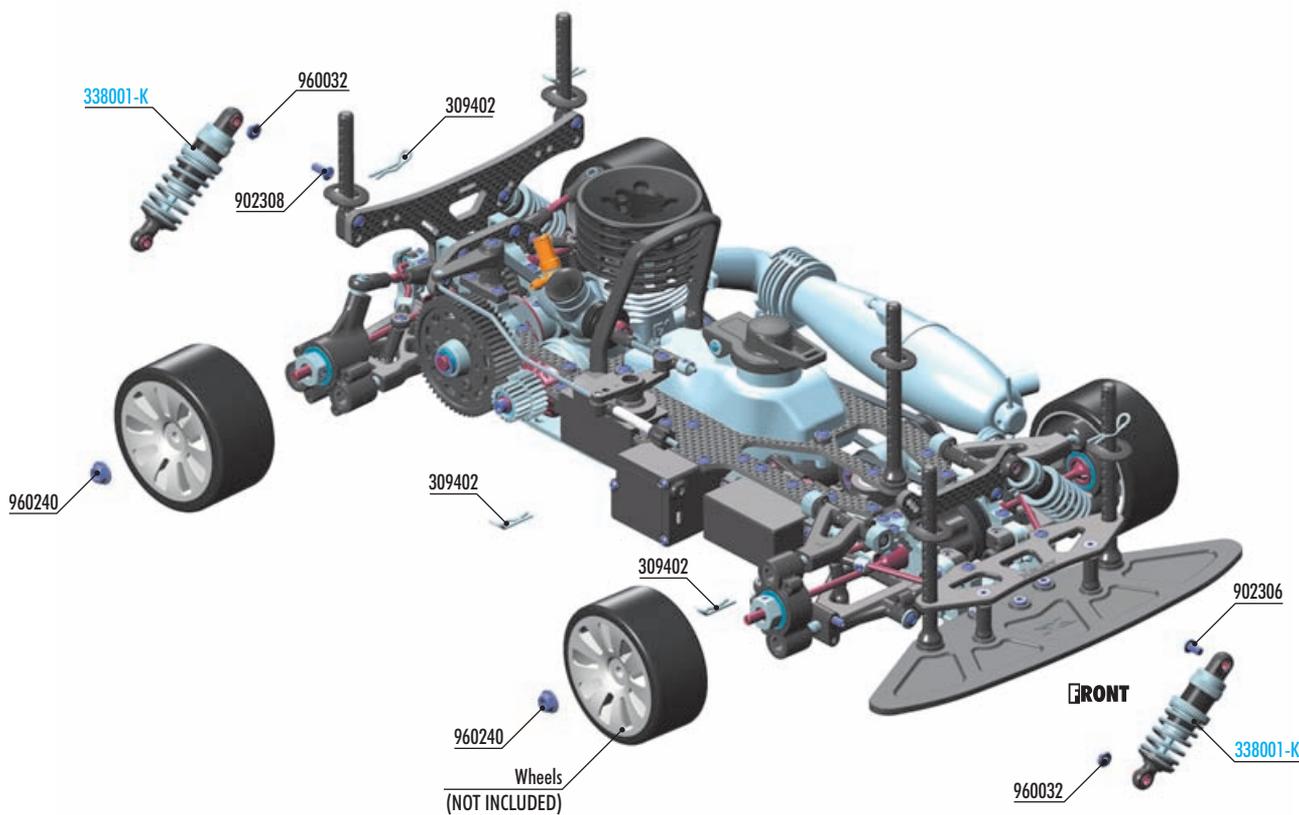
OPTION	SPRINGS - SHORT	OPTION
338182	PROGRESSIVE C=4.0-5.6	OPTION
338183	C=4.6	OPTION
338184	C=5.0	OPTION
338185	C=5.4	OPTION
338186	C=5.8	OPTION
338187	C=6.3	OPTION

OPTION	SPRINGS - LONG	OPTION
338281	PROGRESSIVE C=3.7-4.7	OPTION
338286	C=3.6	OPTION
338296	C=4.0	INCLUDED
338287	C=4.5	INCLUDED
338297	C=5.0	OPTION
338288	C=5.6	OPTION

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



FINAL ASSEMBLY



BAG

09

309402 BODY CLIP FOR 6MM BODY POST (4)

338001-K ALU SHOCK ABSORBER-SET - BLACK (2)

902306 HEX SCREW SH M3x6 (10)

902308 HEX SCREW SH M3x8 (10)

960032 NUT M3 (10)

960240 NUT M4 WITH SERRATED FLANGE (10)

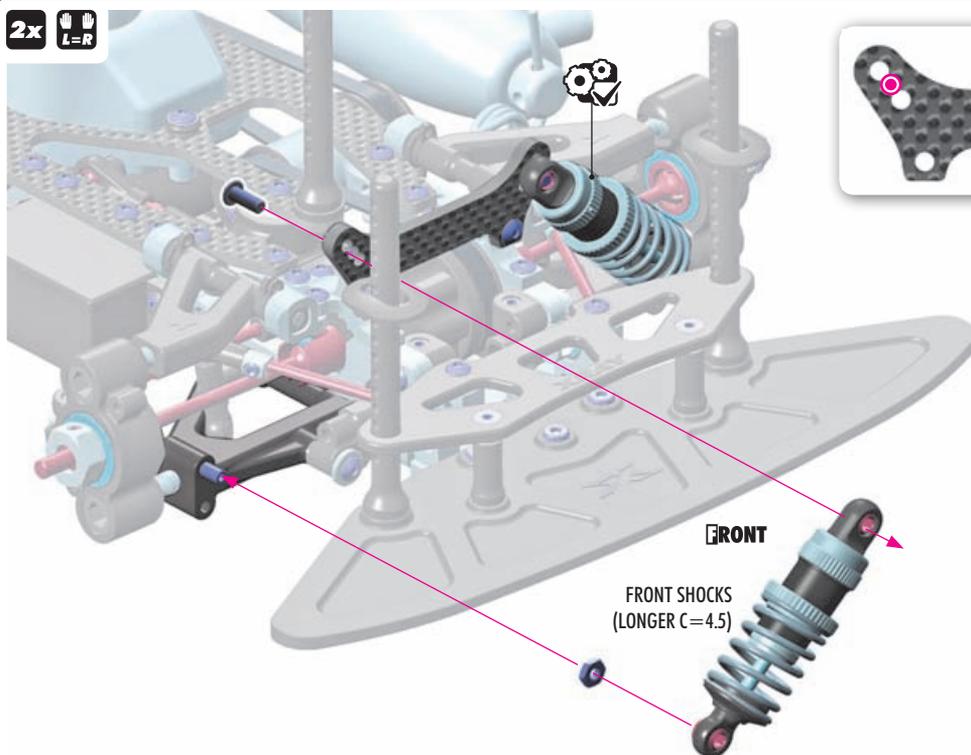


902306
SH M3x6



960032
N M3

2x
L=R



SHOCK POSITION
ADJUSTMENT

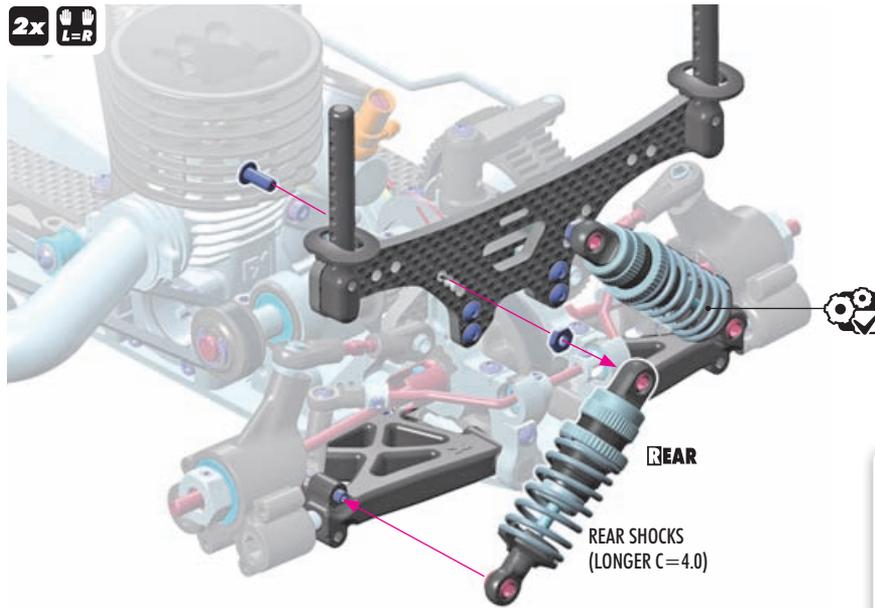


902308
SH M3x8



960032
N M3

2x
L=R



REAR

REAR SHOCKS
(LONGER C=4.0)



(INITIAL POSITION)



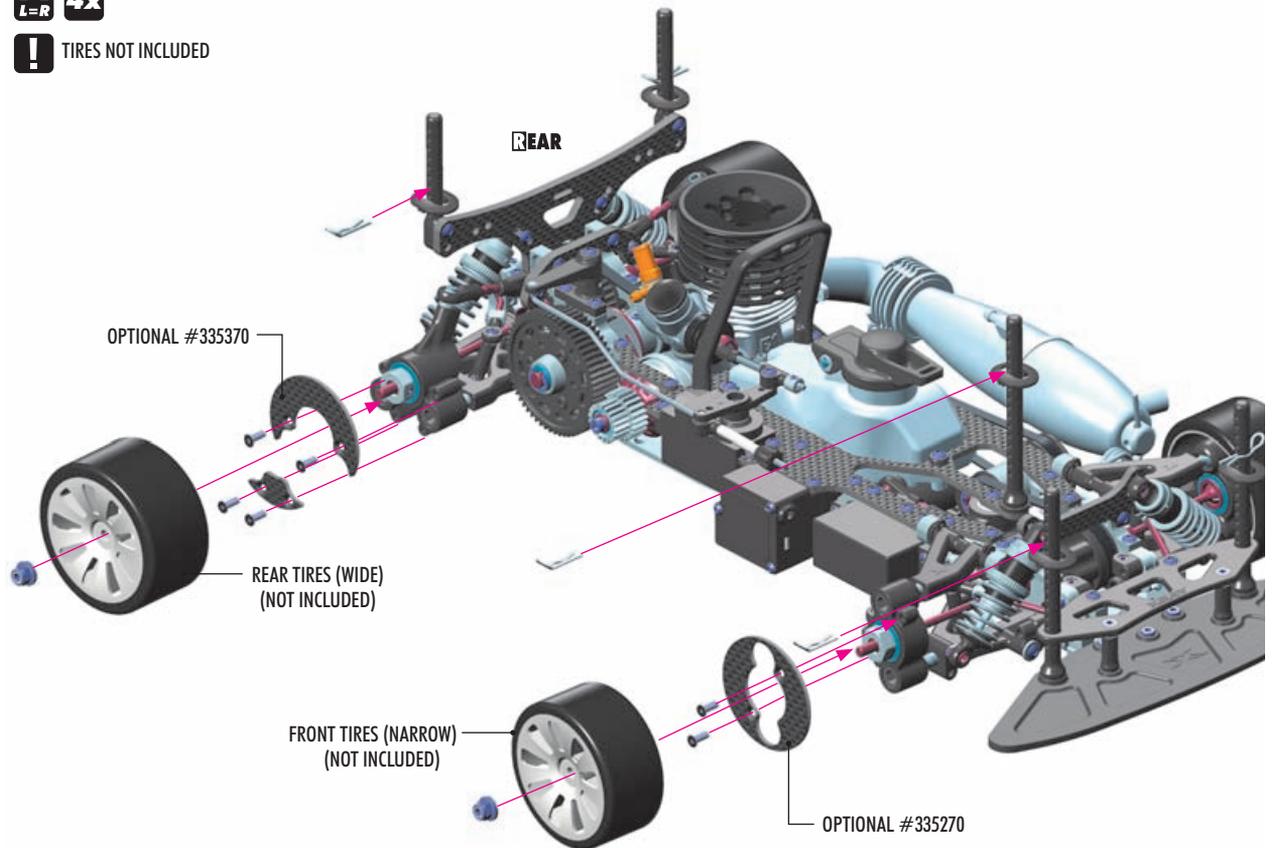
SHOCK POSITION
ADJUSTMENT



960240
N M4

4x
L=R

TIRES NOT INCLUDED



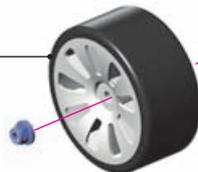
REAR

OPTIONAL #335370



REAR TIRES (WIDE)
(NOT INCLUDED)

FRONT TIRES (NARROW)
(NOT INCLUDED)



OPTIONAL #335270



#335270
GRAPHITE AERODYNAMIC DISK - FRONT
For improved steering.



#335370
GRAPHITE AERODYNAMIC DISK - REAR
For improved stability and traction.



REAR



FRONT

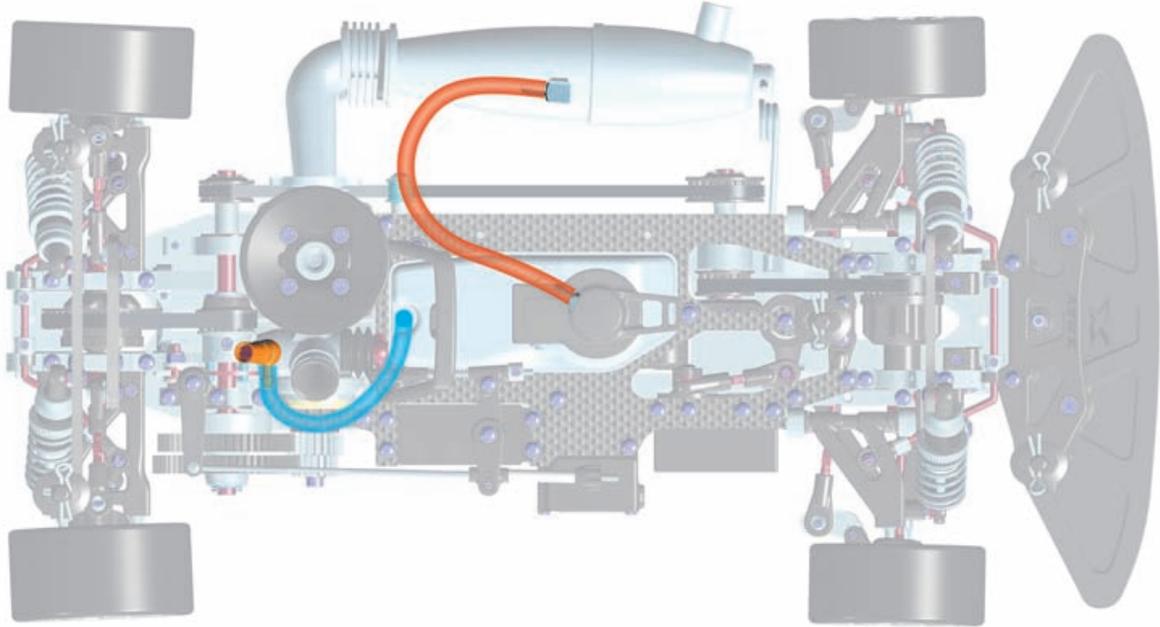
FINAL ASSEMBLY

ALTERNATIVE 1

Fuel tube routed from muffler directly into the fuel tank.

Cut 2 pieces of silicone tubing and install as follows:

SILICONE TUBING MARKED AS RED : **SILICONE TUBING MARKED AS BLUE**
muffler to fueltank cap : fuel tank to carburetor

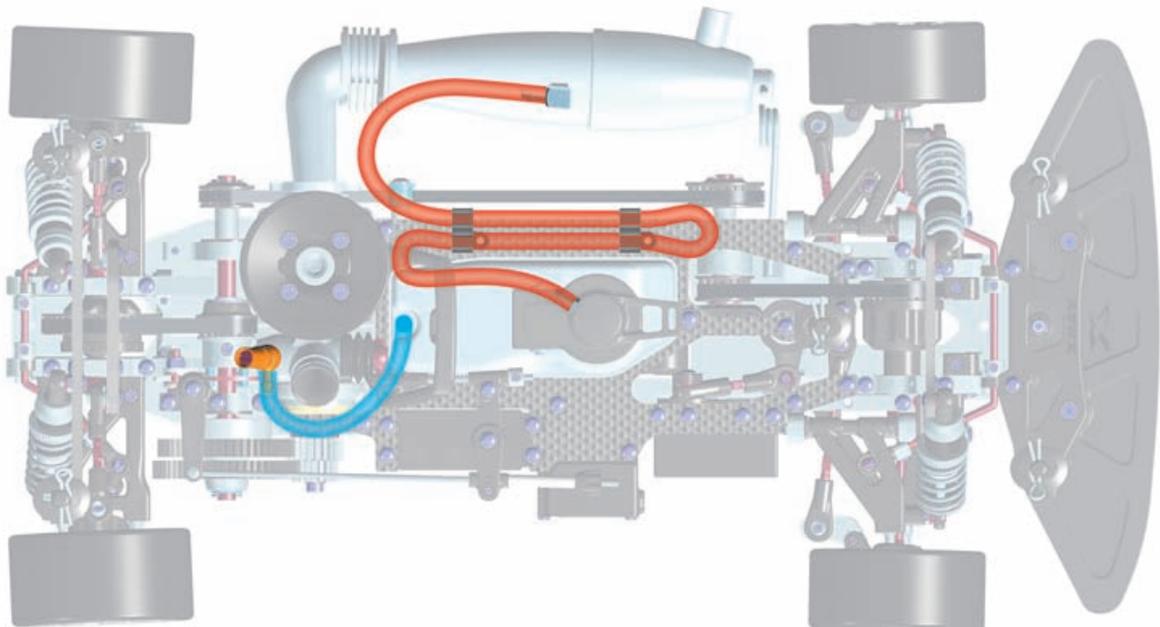


ALTERNATIVE 2

Fuel tube routed from muffler into the fuel tank through 2 holders on radio tray.

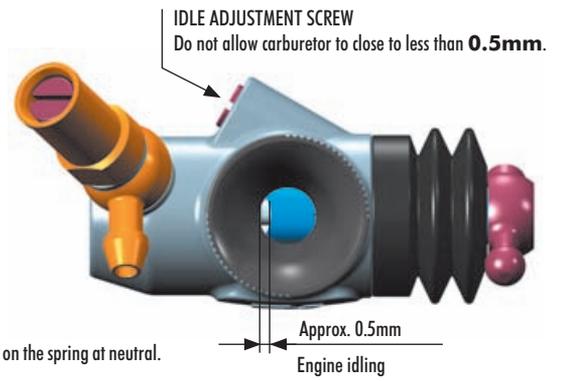
Cut 2 pieces of silicone tubing and install as follows:

SILICONE TUBING MARKED AS RED : **SILICONE TUBING MARKED AS BLUE**
muffler to fueltank cap : fuel tank to carburetor



CARB LINKAGE ADJUSTMENT

NEUTRAL (IDLE)



Turn on transmitter and receiver and set the throttle servo trim to the neutral position. Adjust the idle adjustment screw on the carburetor to open approx. 0.5-1mm. Adjust both collars on the carb and brake linkages accordingly. The carb linkage must have approximately 0.5mm of preload on the spring at neutral. **DO NOT ADJUST** while the engine is running.

FULL THROTTLE

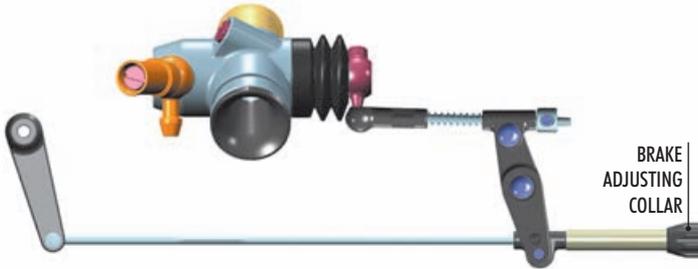


With the engine **NOT RUNNING** but the receiver turned **ON**, apply full throttle at the transmitter.

Adjust the transmitter's throttle servo high-end point so that the servo horn fully opens the carburetor when the transmitter's throttle control (e.g., throttle trigger) is at 95% of full throttle. The servo should not have excessive strain when at full throttle, or throttle/carb damage will result.

If the transmitter does not have throttle high-end point adjustment, adjust the throttle linkage pivot position on the servo horn until full throttle is obtained.

BRAKE



Adjust the composite collar on the brake linkage so the brakes work smoothly.

If the brakes apply too much or not enough, adjust the collar accordingly. If your transmitter has throttle servo low-end point adjustment (or brake adjustment), use that to set the appropriate amount of throttle servo horn throw.

NOTE

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