XRAY NT1

1/10 LUXURY NITRO TOURING CAR



INSTRUCTION MANUAL

XRAY®

BEFORE YOU START

The NT1 is a high-competition, high-quality, 1/10-scale nitro touring car intended for persons aged 16 years and older with previous experience building and operating RC model racing cars. This is not a toy; it is a precision racing model. This model racing car is not intended for use by beginners, inexperienced customers, or by children without direct supervision of a responsible, knowledgeable adult. If you do not fulfill these requirements, please return the kit in unused and unassembled form back to the shop where you have purchased it.

Before building and operating your NT1, YOU MUST read through all of the operating instructions and instruction manual and fully understand them to get the maximum enjoyment and prevent unnecessary damage. Read carefully and fully understand the instructions before beginning assembly.
Make sure you review this entire manual, the included set-up book, and examine all details carefully. If for some reason you decide the NT1 is not what you wanted or expected, do not continue any further. Your hobby dealer cannot accept your NT1 kit for return or exchange after it has been partially or fully assembled.

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

CUSTOMER SUPPORT

We have made every effort to make these instructions as easy to understand as possible. However, if you have any difficulties, problems, or questions, please do not hesitate to contact the XRAY support team at info@teamxray.com. Also, please visit our Web site at www.teamxray.com to find the latest updates, set-up information, option parts, and many other goodies. We pride ourselves on taking excellent care of our customers.

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

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Fax: (214) 744-2401
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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 inflammable, 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 excess the monetary value of this product.

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

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

Part bags used	Assemble in the specified order	Assemble left and right sides the same way	Pay attention here	Assemble as many times as specified (here twice)	Apply thread lock	Apply cyanoacrylate (CA) glue
Number of teeth	Apply oil (may indicate specific type)	Apply grease	Follow tip here	Ensure smooth non-binding movement	Cut off remaining material	Follow Set-Up Book

TOOLS & EQUIPMENT INCLUDED

XRAY Silicone Shock

XRAY Silicone Diff Oil

Turnbuckle Tool

TOOLS REQUIRED

HUDY TOOLS

Phillips 3.5mm

Allen Ball 2.5mm

Allen 3.0 / 2.5 / 2.0 / 1.5mm

Socket 7.0mm

Shockabsorber Assembly Tool (HUDY #183010)

Wrench Glowplug/Clutchnut (HUDY #107581)

Reamer (HUDY #107600)

Flywheel Tool (HUDY #182010)

Pinion Tools (HUDY #182001 & 182002)

Pliers

Scissors

Side Cutters

Hobby Knife

EQUIPMENT REQUIRED

Transmitter

Receiver & Personal Transponder

Steering & Throttle Servos

Engine

Starter Box & Battery Pack

Glowplug Igniter

Manifold & Exhaust

Lexan Paint

200mm Bodyshell

#309580 One-Way Lube

#309500 Grease

Battery Charger

Tape

Tires

Model R/C Car Fuel (nitromethane)

Receiver Battery Pack

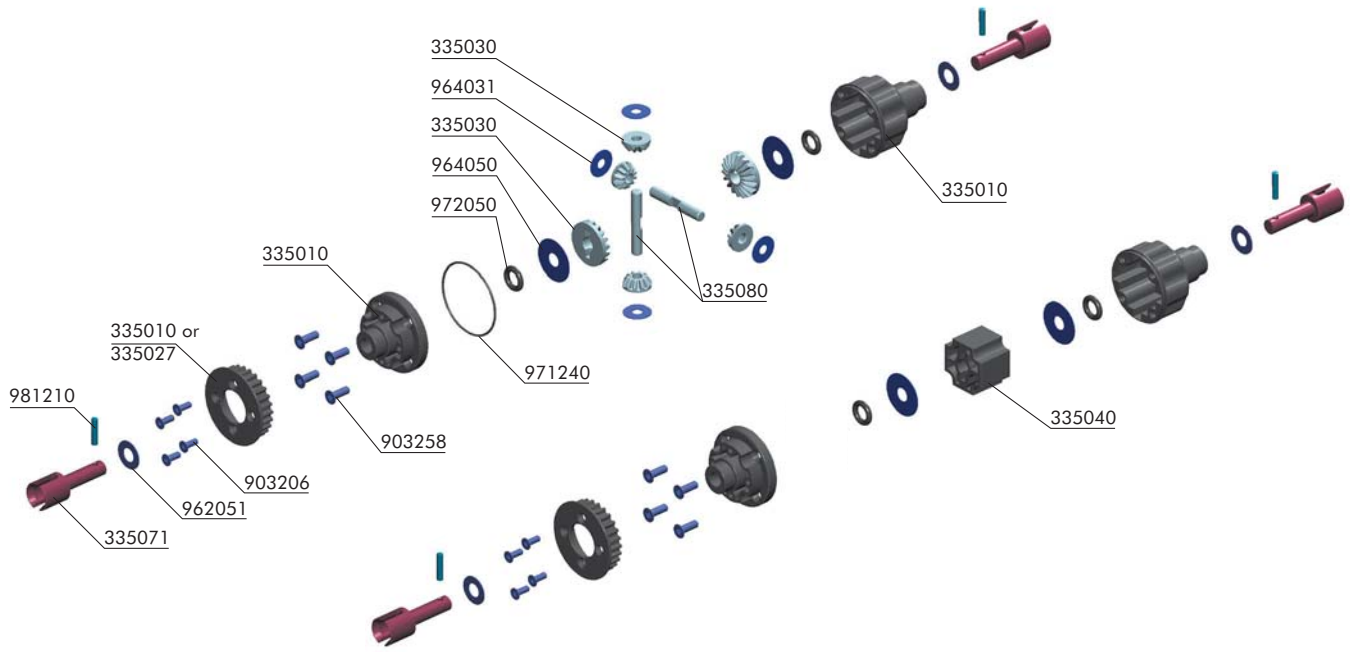
Transmitter Batteries

Air Filter & Oil

Threadlock & CA Glue

Tire Truer (HUDY #102003)

1. FRONT GEAR DIFFERENTIAL & SOLID AXLE

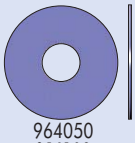


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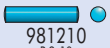
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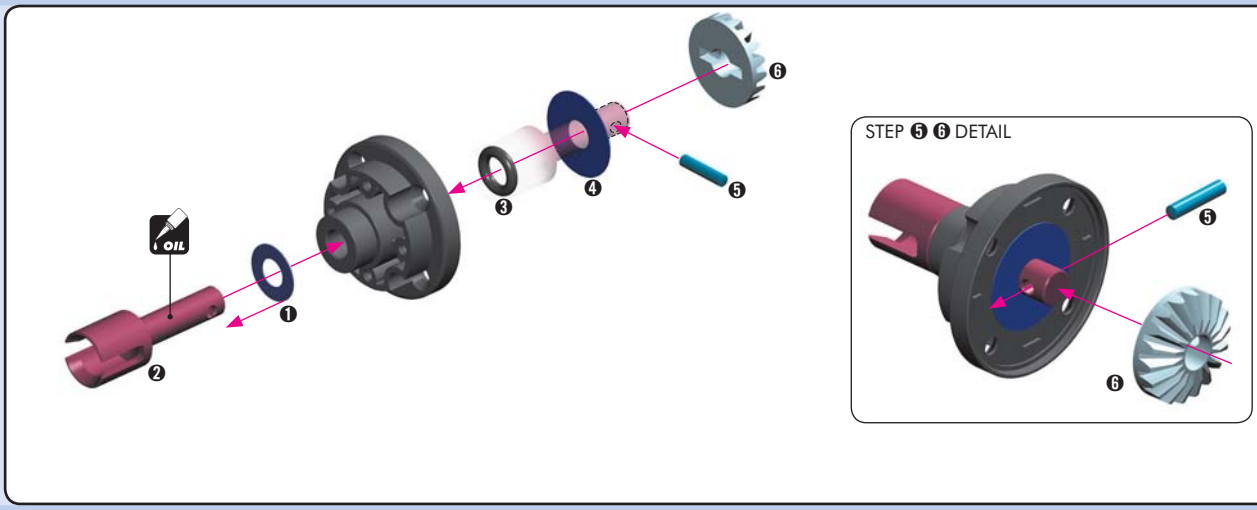
33 5000	FRONT GEAR DIFFERENTIAL - SET	96 2051	WASHER S 5x10x0.2 (10)
33 5010	COMPOSITE FRONT DIFF. CASE, COVER & 27T BELT PULLEY	96 4031	WASHER S 3.5x10x0.2 (10)
33 5027	COMPOSITE TIMING BELT PULLEY 27T	96 4050	WASHER S 5x15x0.3 (10)
33 5030	DIFF BEVEL & SATELLITE GEARS (2+4)	97 1240	SILICONE O-RING 24x0.7 (10)
33 5040	COMPOSITE SOLID AXLE ADAPTER	97 2050	SILICONE O-RING 5x2 (10)
33 5071	DIFF OUTDRIVE ADAPTER - LONG - HUDY SPRING STEEL™ (2)	98 1210	PIN 2x10 (10)
33 5080	DIFF PIN (2)		
90 3206	HEX SCREW SFH M2x6 (10)		
90 3258	HEX SCREW SFH M2.5x8 (10)		


962051
S 5x10x0.2

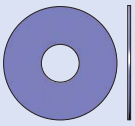

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S 5x15x0.3


972050
O 5x2

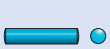

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P 2x10

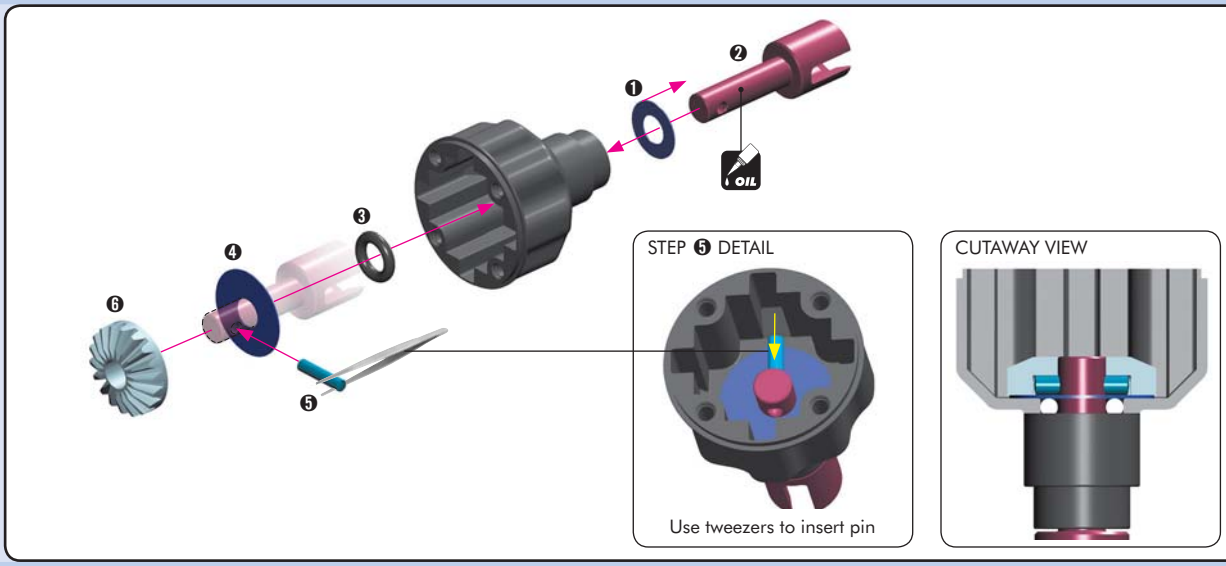



962051
S 5x10x0.2


964050
S 5x15x0.3


972050
O 5x2

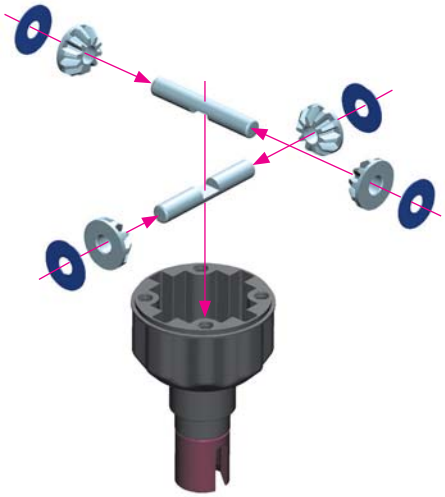

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P 2x10

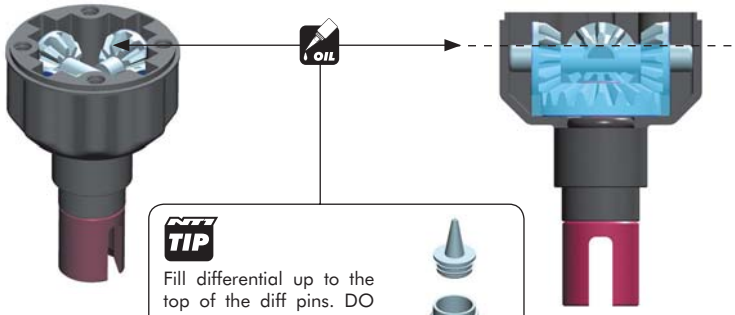


FRONT GEAR DIFFERENTIAL & SOLID AXLE

964031
S 3.5x10x0.2

SET-UP BOOK
GEAR DIFF ADJUSTMENT





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.

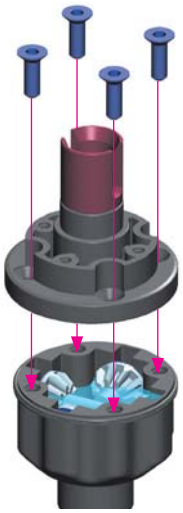


903258
SFH M2.5x8

971240
O 24x0.7

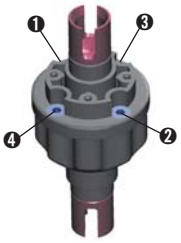


After disassembling the differential the large O-ring may have an increased size and may be more difficult to re-install. We recommend either replacing the O-ring or carefully inserting the O-ring in the diff cover.



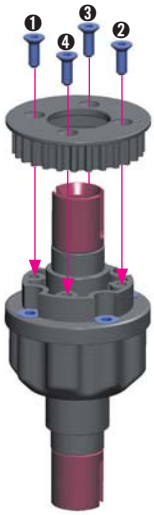


Tighten the screws equally but do NOT tighten them completely



Finish tightening in this order

903206
SFH M2x6



SOLID AXLE

962051
S 5x10x0.2

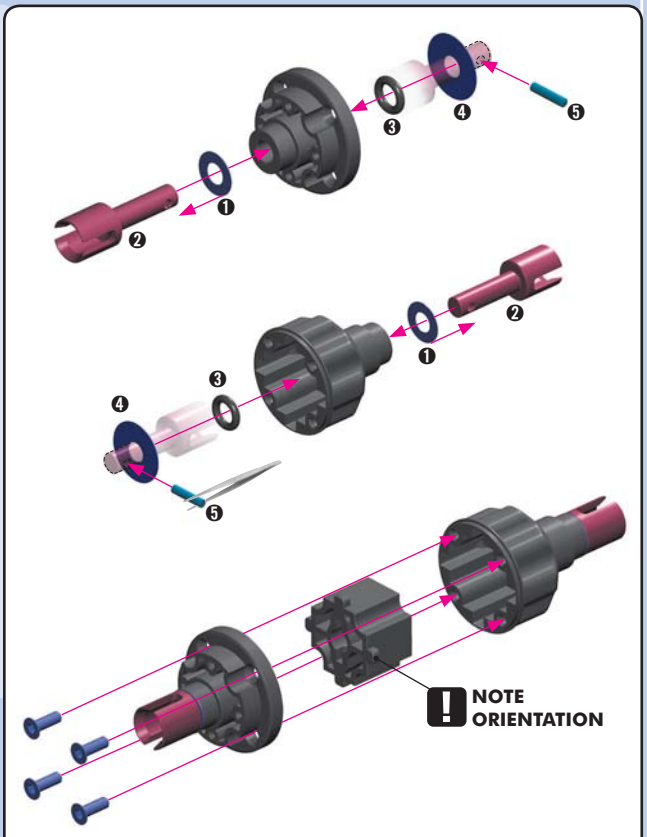
964050
S 5x15x0.3

972050
O 5x2

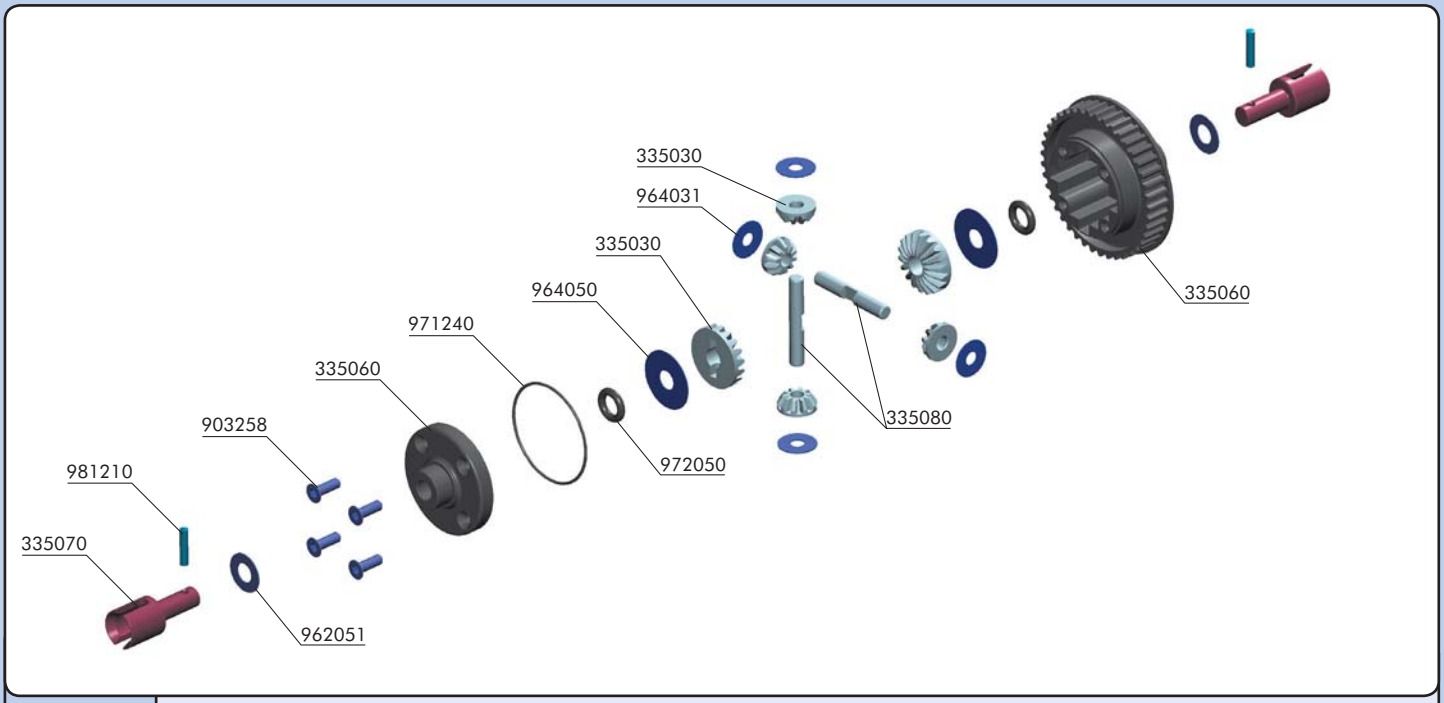
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SFH M2.5x8

981210
P 2x10

The front diff can be easily changed into a solid axle. Remove the internal gears and replace with the solid axle locking body.



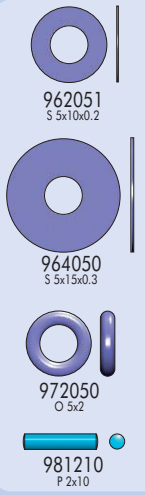
1. REAR GEAR DIFFERENTIAL

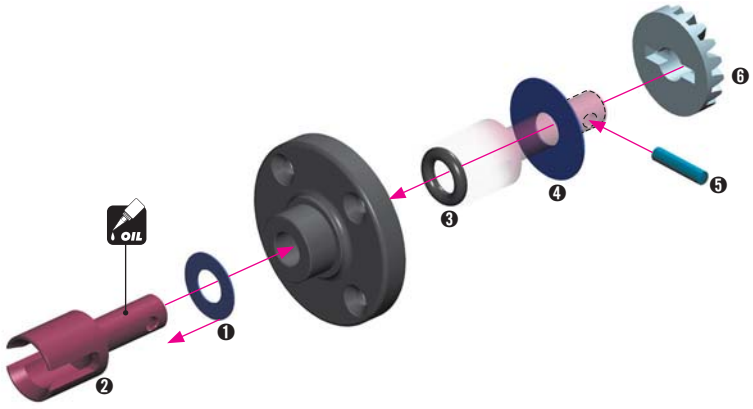


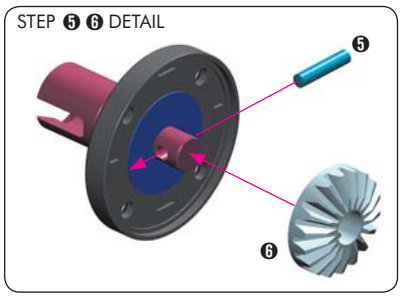
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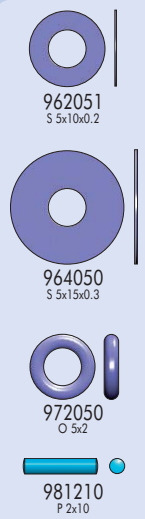
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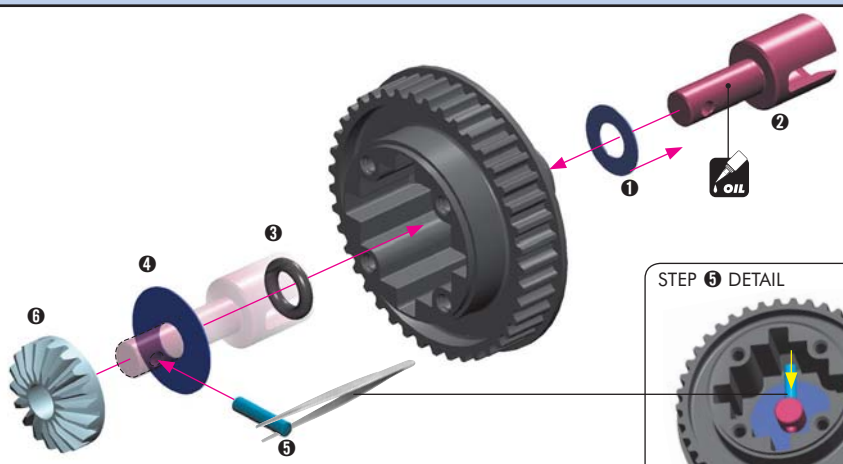
33 5030	DIFF BEVEL & SATELLITE GEARS (2+4)	97 1240	SILICONE O-RING 24x0.7 (10)
33 5050	REAR GEAR DIFFERENTIAL - SET	97 2050	SILICONE O-RING 5x2 (10)
33 5060	COMPOSITE REAR DIFF. CASE & COVER	98 1210	PIN 2x10 (10)
33 5070	DIFF OUTDRIVE ADAPTER - HUDY SPRING STEEL™ (2)		
33 5080	DIFF PIN (2)		
90 3258	HEX SCREW SFH M2.5x8 (10)		
96 2051	WASHER S 5x10x0.2 (10)		
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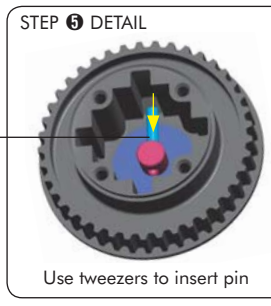






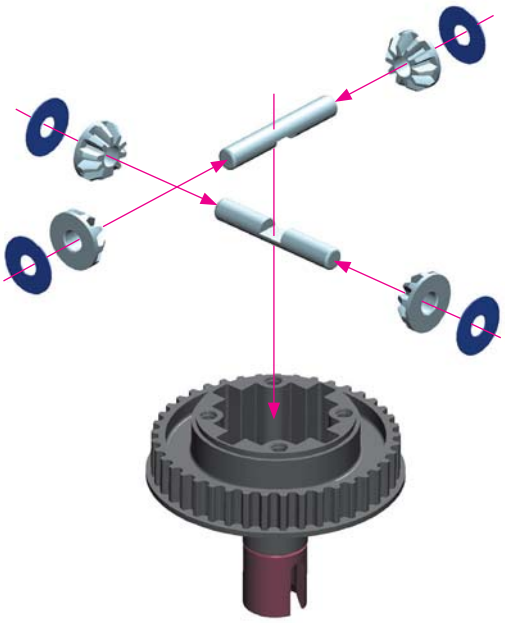


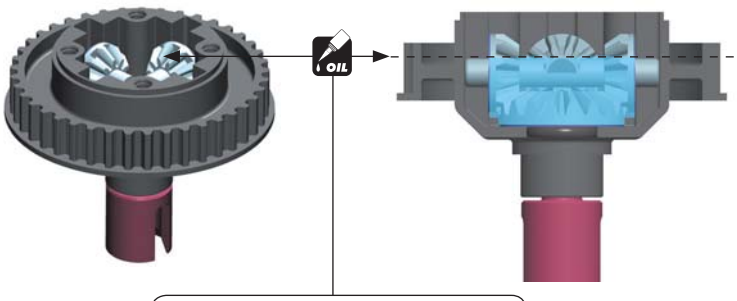






964031
S 3.5x10x0.2





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.



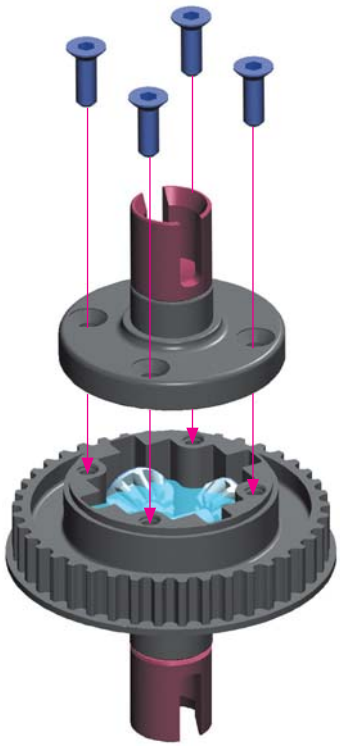
SET-UP BOOK
GEAR DIFF ADJUSTMENT

971240
O 24x0.7



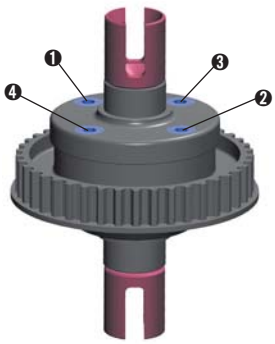
After disassembling the differential the large O-ring may have an increased size and may be more difficult to re-install. We recommend either replacing the O-ring or carefully inserting the O-ring in the diff cover.

903258
SFH M2.5x8



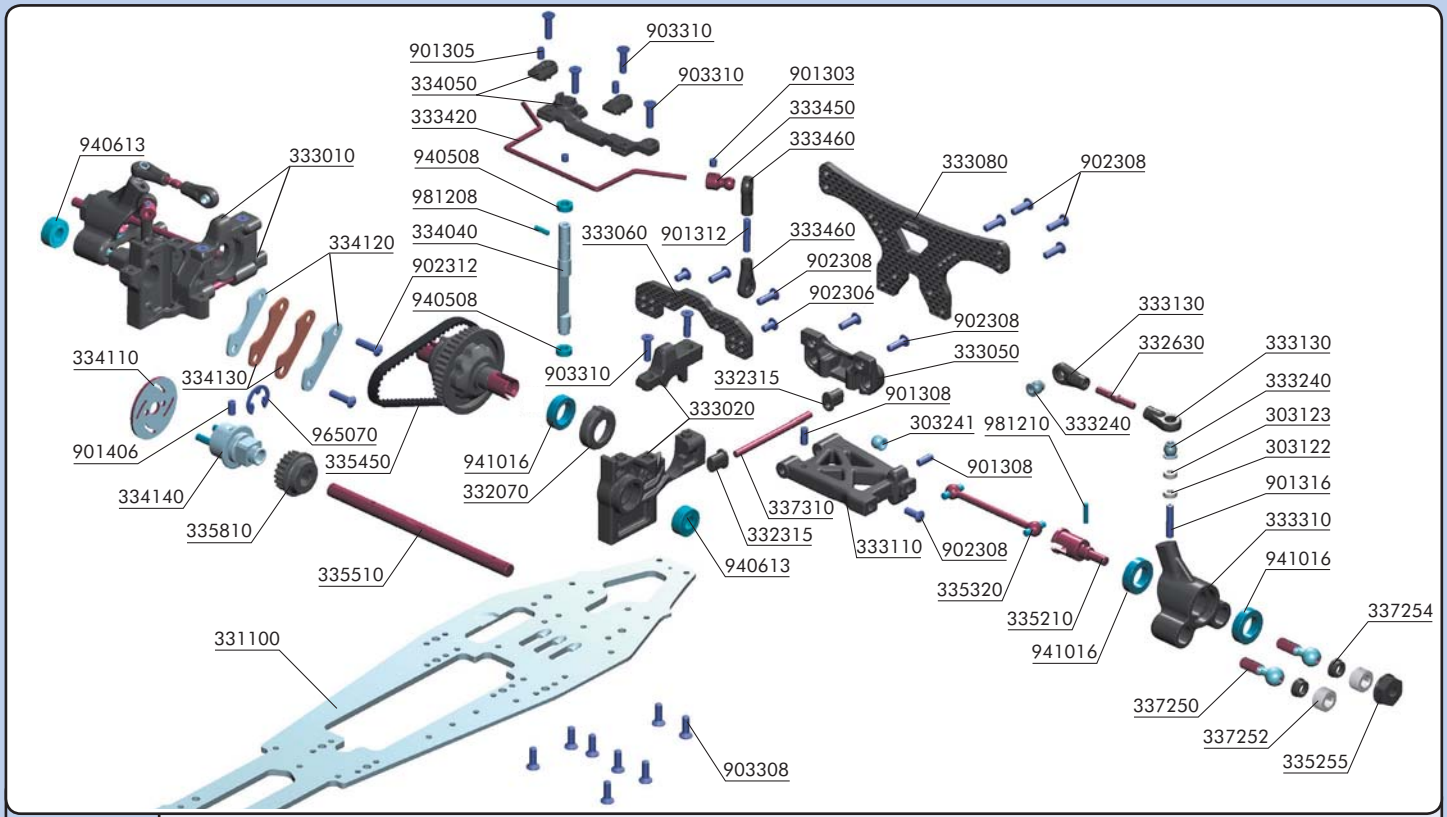


Tighten the screws equally but do NOT tighten them completely



Finish tightening in this order

2. REAR SUSPENSION



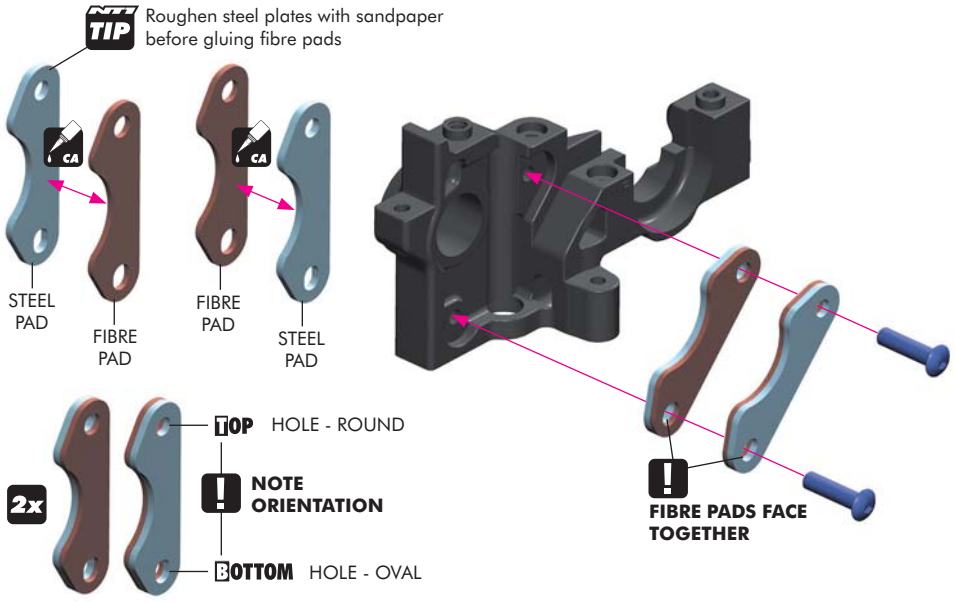
BAG

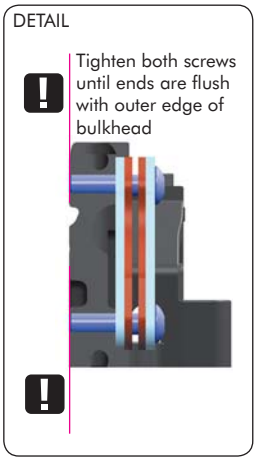
02

30 3122	ALU SHIM 3x6x1.0MM (10)
30 3123	ALU SHIM 3x6x2.0MM (10)
30 3241	BALL UNIVERSAL 5.8 MM HEX (4)
33 1100	CHASSIS 3MM - CNC MACHINED - SWISS 7075 T6
33 2070	COMPOSITE ADJUST. BALL-BEARING HUB (4)
33 2315	COMPOSITE SUSP. ECCENTRIC BUSHING (4)
33 2630	ADJ. TURNBUCKLE L/R 25 MM - HUDY SPRING STEEL™ (2)
33 3010	COMPOSITE LOWER & UPPER BULKHEAD REAR RIGHT
33 3020	COMPOSITE LOWER & UPPER BULKHEAD REAR RIGHT
33 3050	COMPOSITE REAR BULKHEAD COVER
33 3060	GRAPHITE ROLL-CENTER BRIDGE
33 3080	GRAPHITE SHOCK TOWER REAR 3 MM
33 3110	COMPOSITE SUSPENSION ARM REAR LOWER
33 3130	COMPOSITE REAR UPPER CAMBER LINK BALL JOINT 5.8 MM (4)
33 3240	BALL UNIVERSAL 5.8 MM HEX (4)
33 3310	COMPOSITE UPRIGHT REAR
33 3420	ANTI-ROLL BAR REAR 2.0 MM
33 3450	ANTI-ROLL BAR BALL JOINT 5.8 MM (2)
33 3460	COMPOSITE ANTI-ROLL BAR BALL JOINT 5.8 MM (4)
33 4040	BRAKE CAM POST - ALU 7075 T6
33 4050	COMPOSITE BRAKE UPPER PLATE + COMPOSITE CLAMPS
33 4110	VENTILATED BRAKE DISK - LASER CUT - PRECISION-GROUND
33 4120	HARDENED STEEL BRAKE PAD - LASER CUT (2)
33 4130	BRAKE PAD FERODO (2)
33 4140	BRAKE DISK ADAPTER - ALU 7075 T6
33 5210	DRIVE AXLE - HUDY SPRING STEEL™
33 5255	COMPOSITE WHEEL HUB (2)
33 5320	DRIVE SHAFT - 60 MM - HUDY SPRING STEEL™
33 5450	PUR REINFORCED DRIVE BELT REAR 3 x 177 MM
33 5510	2-SPEED SHAFT
33 5810	COMPOSITE BELT PULLEY 20T - 2-SPEED-CENTER
33 7250	STEEL PIVOT BALL 8.4 MM (2)
33 7252	ALU ADJUSTING NUT M10x1 (4)
33 7254	COMPOSITE BALL CUP 8.4 MM (8)
33 7310	COMPOSITE SUSP. ECCENTRIC BUSHING (4)
90 1303	HEX SCREW SB M3x3 (10)
90 1305	HEX SCREW SB M3x5 (10)
90 1308	HEX SCREW SB M3x8 (10)
90 1312	HEX SCREW SB M3x12 (10)
90 1316	HEX SCREW SB M3x16 (10)
90 1406	HEX SCREW SB M4x6 (10)
90 2306	HEX SCREW SH M3x6 (10)
90 2308	HEX SCREW SH M3x8 (10)
90 2312	HEX SCREW SH M3x12 (10)
90 3308	HEX SCREW SFH M3x8 (10)
90 3310	HEX SCREW SFH M3x10 (10)
94 0508	HIGH-SPEED BALL-BEARING 5x8x2.5 RUBBER SEALED (2)
94 0613	HIGH-SPEED BALL-BEARING 6x13x5 RUBBER SEALED (2)
94 1016	HIGH-SPEED BALL-BEARING 10x16x4 RUBBER SEALED (2)
96 5070	E-CLIP 7 (10)
98 1208	PIN 2x8 (10)
98 1210	PIN 2x10 (10)



902312
SH M3x12





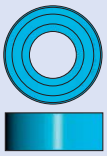
REAR SUSPENSION



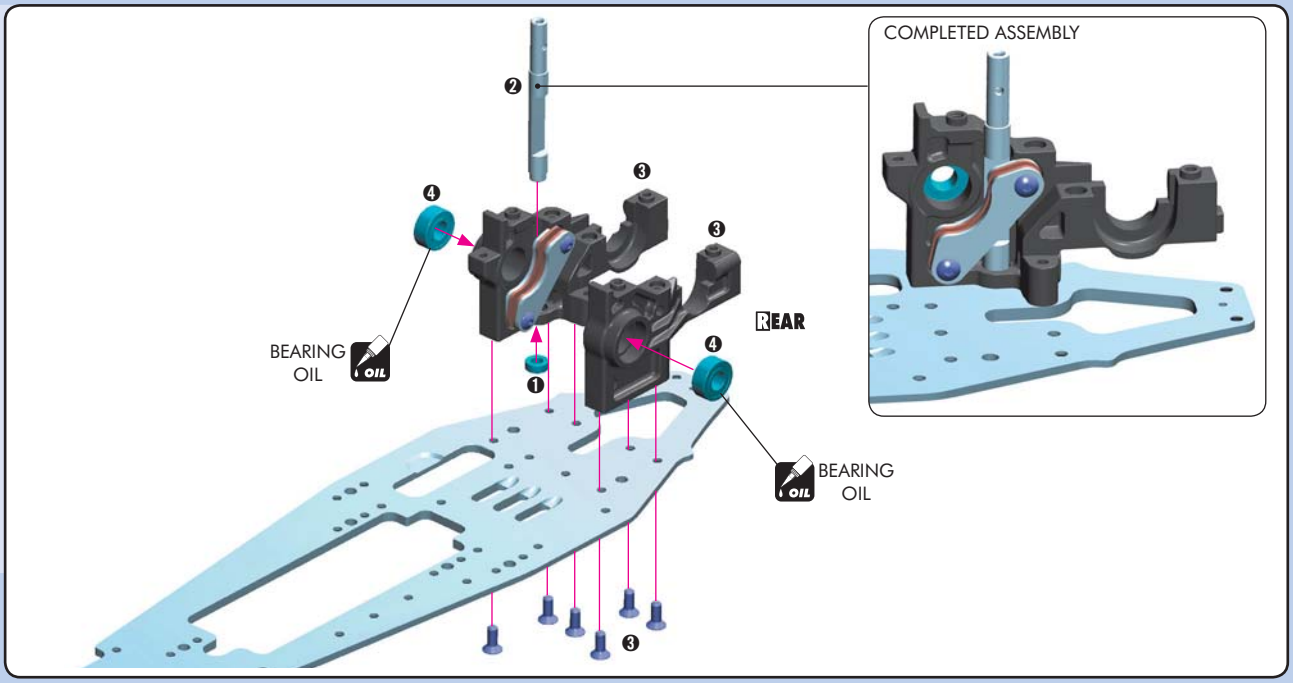
903308
SFH M3x8



940508
BB 5x8x2.5



940613
BB 6x13x5

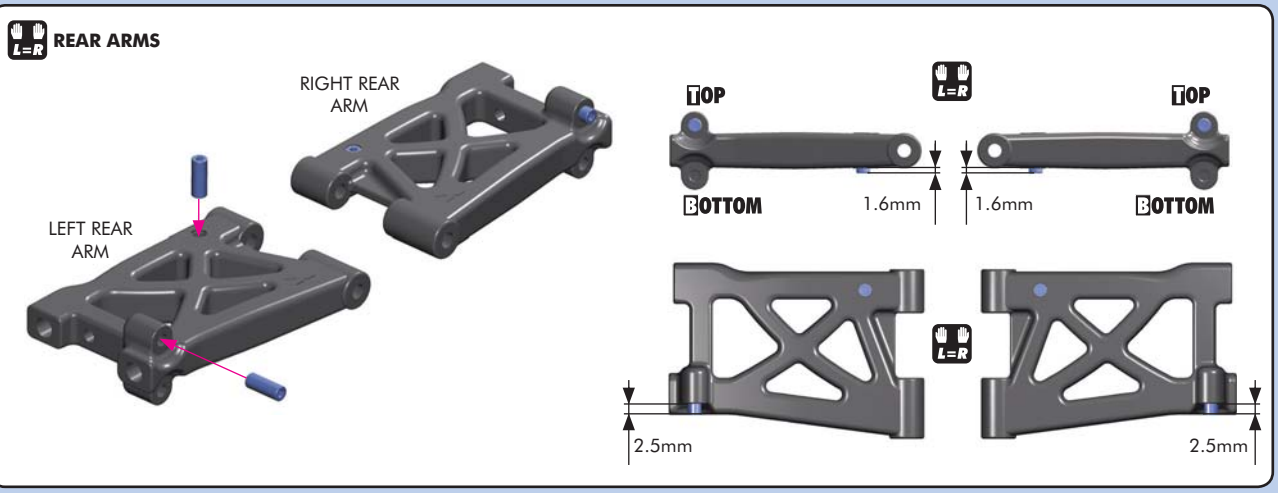




901308
SB M3x8



REAR DOWNSTOP ADJUSTMENT





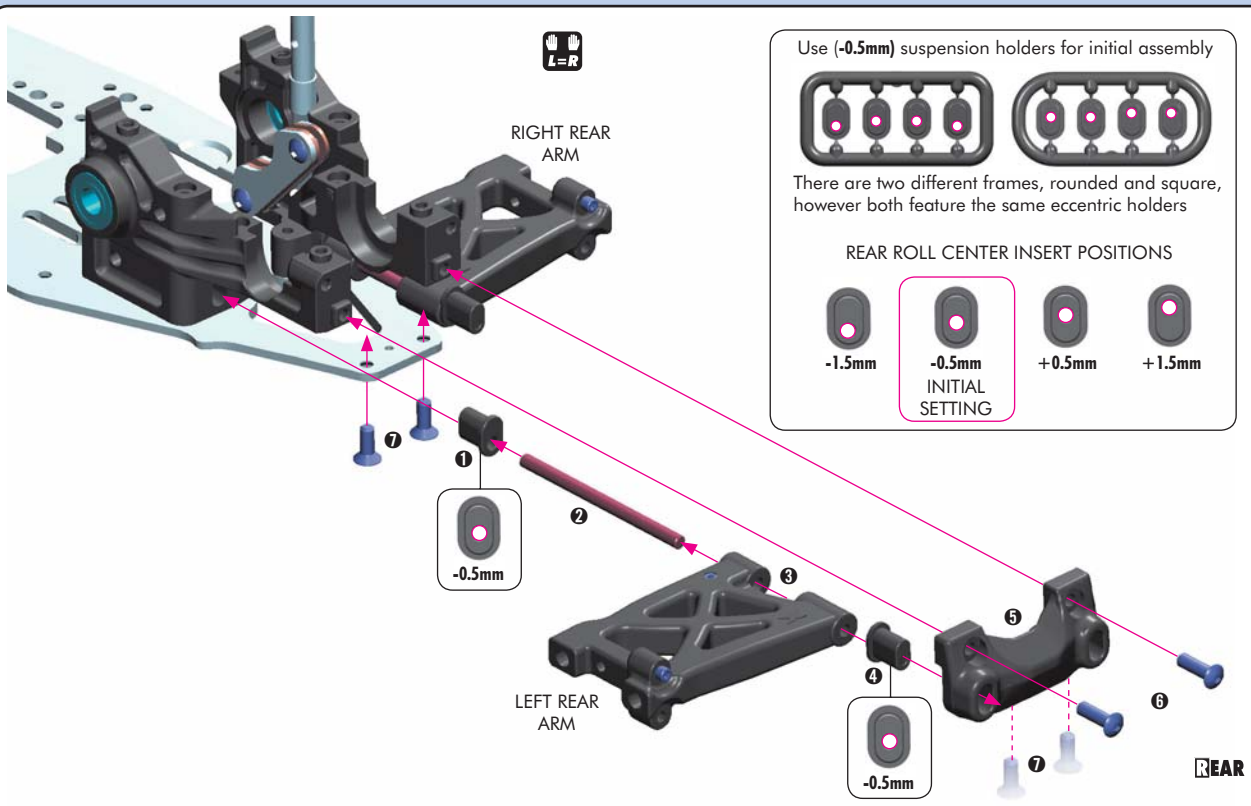
902308
SH M3x8



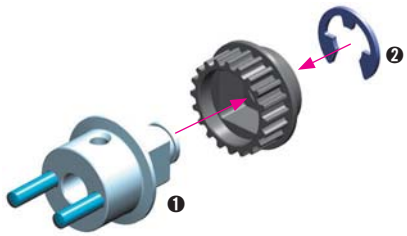
903308
SFH M3x8



ROLL CENTER ADJUSTMENT



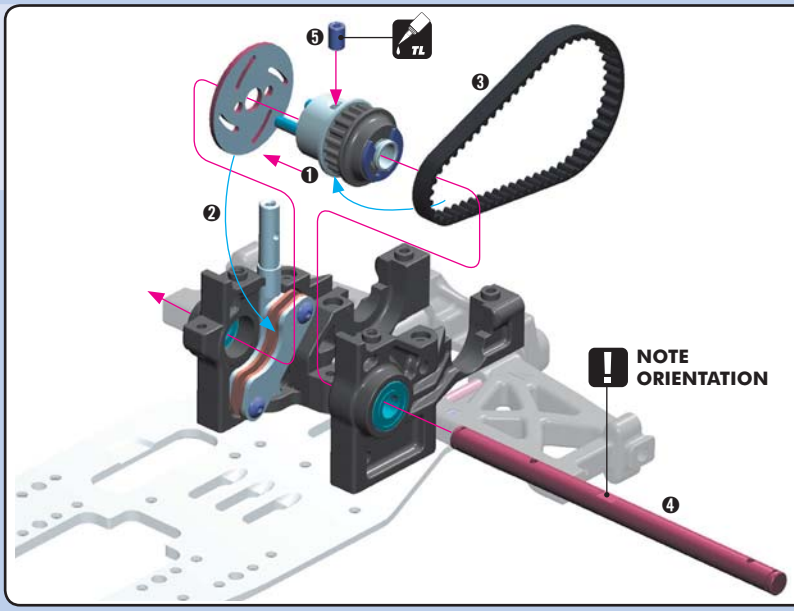
965070
C 7



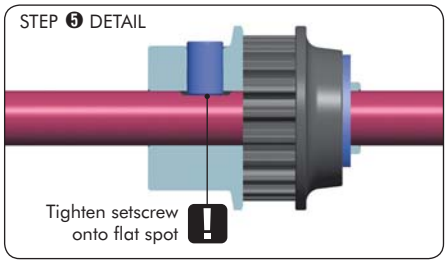


ASSEMBLED VIEW

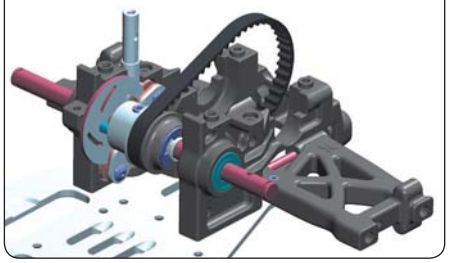
901406
SB M4x6



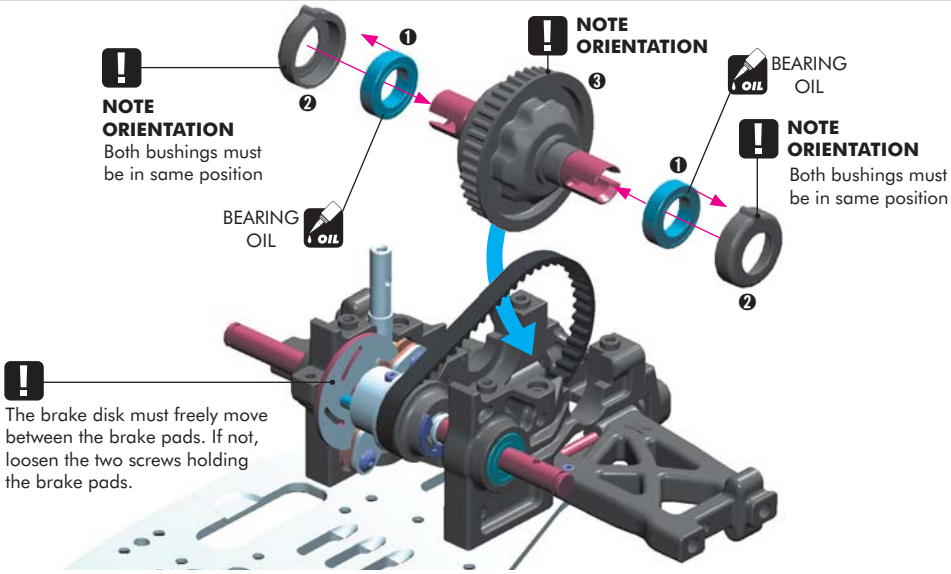
STEP ❺ DETAIL



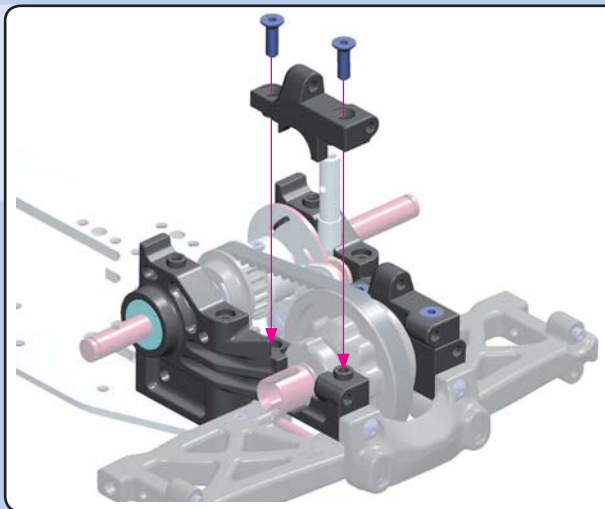
ASSEMBLED VIEW



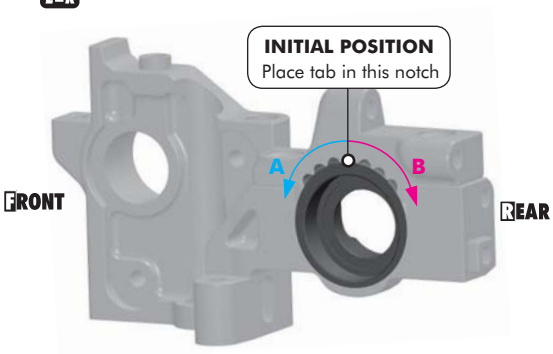
941016
BB 10x16x4



903310
SFH M3x10



REAR BELT TENSION ADJUSTMENT



TO TIGHTEN REAR BELT
Rotate BOTH rear composite bushings in arrow direction (A)

TO LOOSEN REAR BELT
Rotate BOTH rear composite bushings in arrow direction (B)

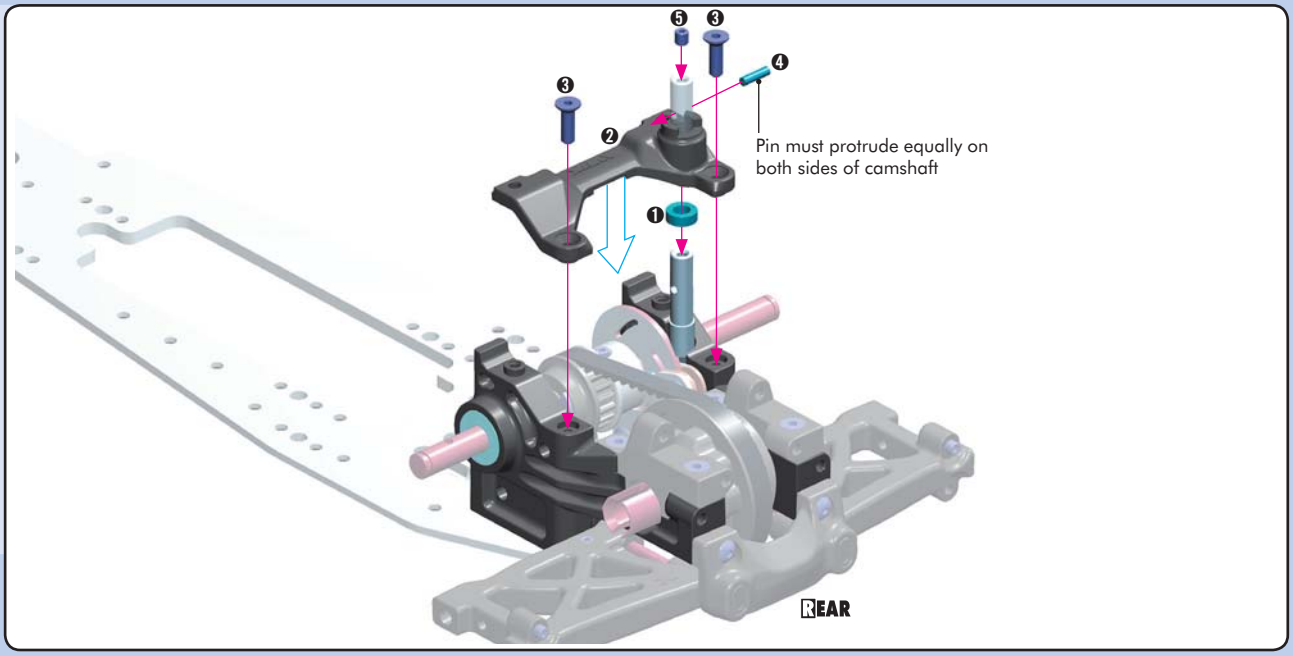
REAR SUSPENSION

901303
SB M3x3

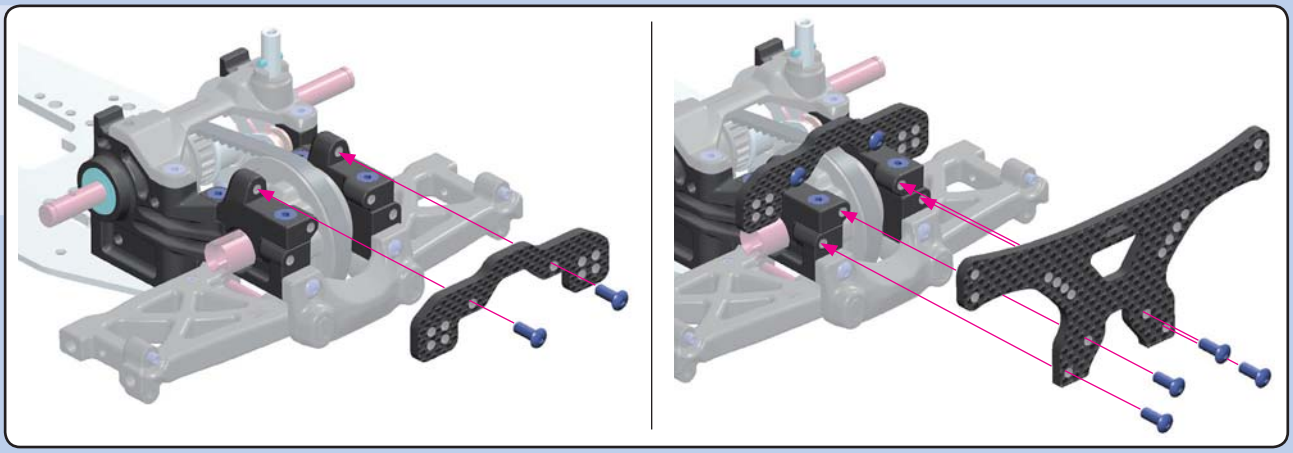
903310
SFH M3x10

940508
BB 5x8x2.5

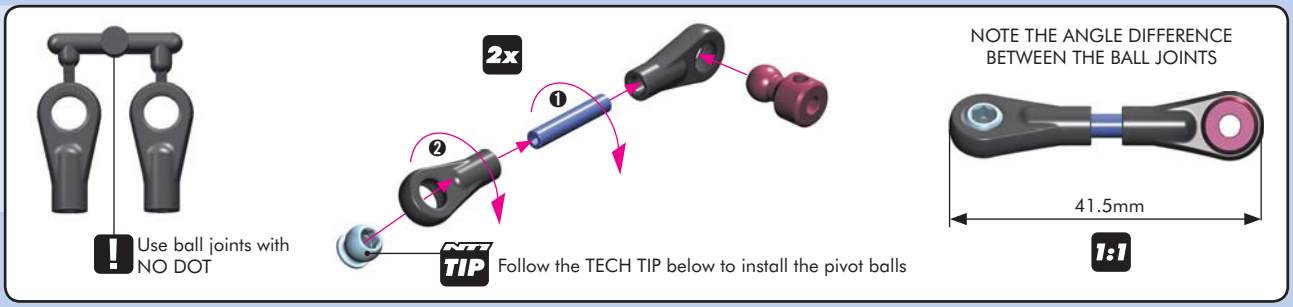
981208
P 2x8



902308
SH M3x8



901312
SB M3x12



TECH TIP

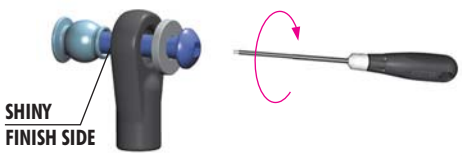
Follow this tech tip to install pivot balls into ball joints.

Parts Needed:
- M3 x 16 SH screw
- M3 shim

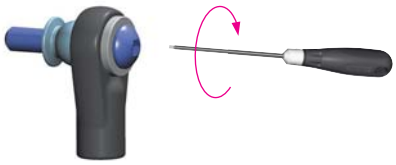
Note that the composite ball joints have two sides, noticeable around the pivot ball hole: one side has a shiny finish, the other side has a regular finish.



❶ Install pivot ball into ball joint from the SHINY side



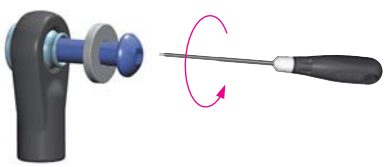
❷ Tighten screw until pivot ball snaps into ball joint



❸ Ensure pivot ball moves freely in ball joint

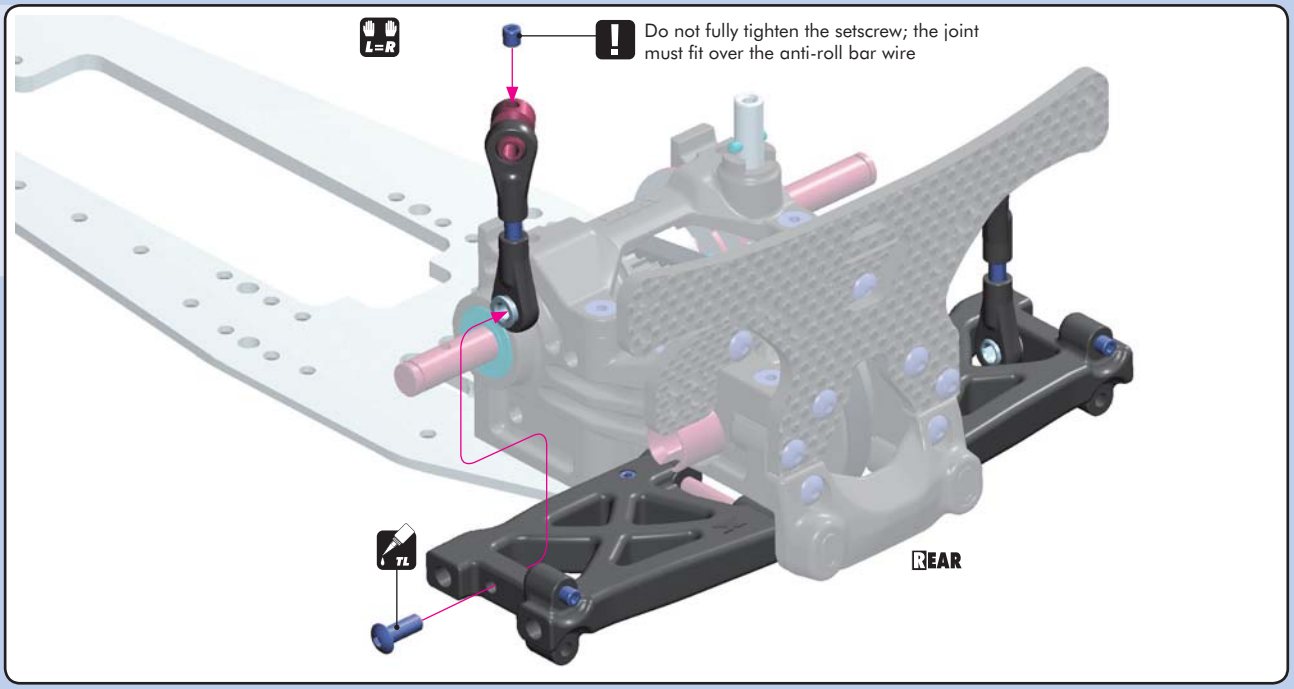


❹ Remove screw and shim



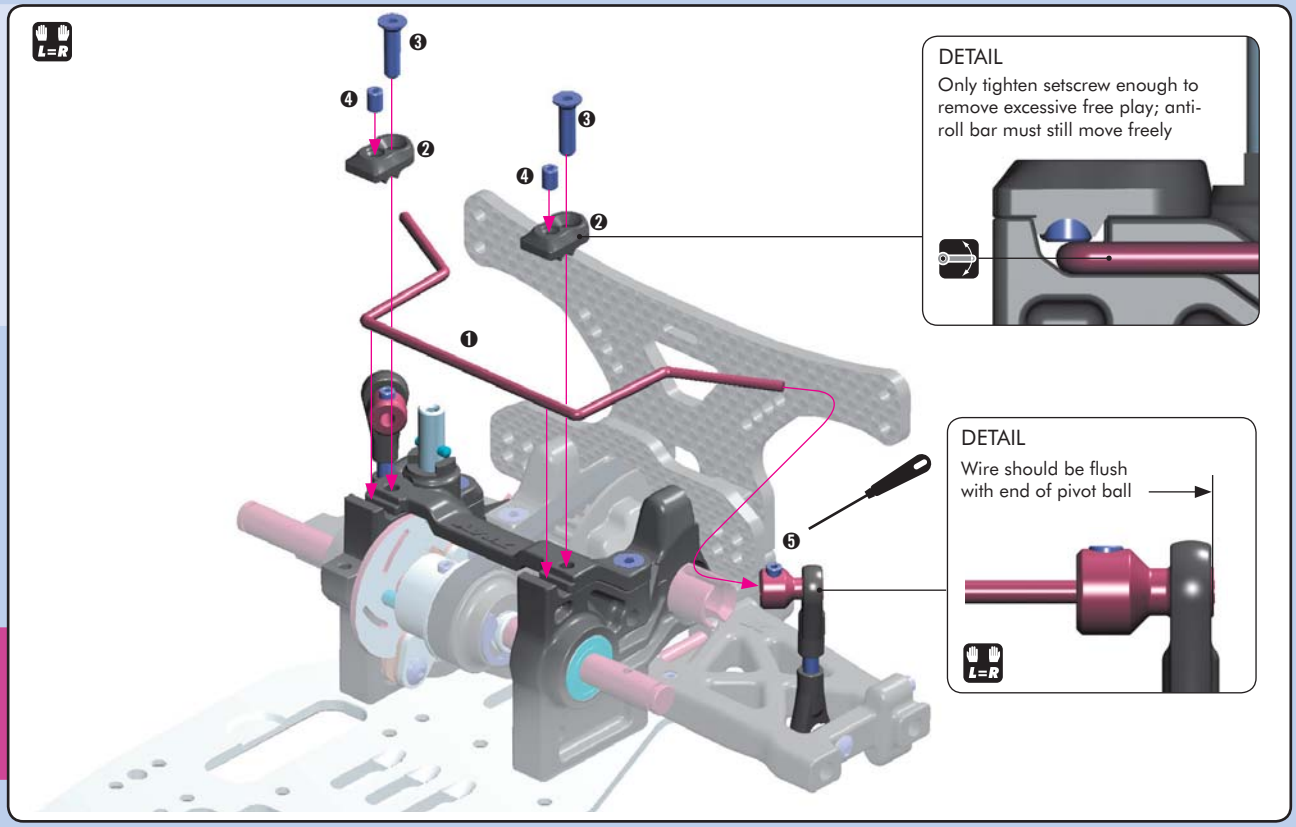
901303
SB M3x3

902308
SH M3x8

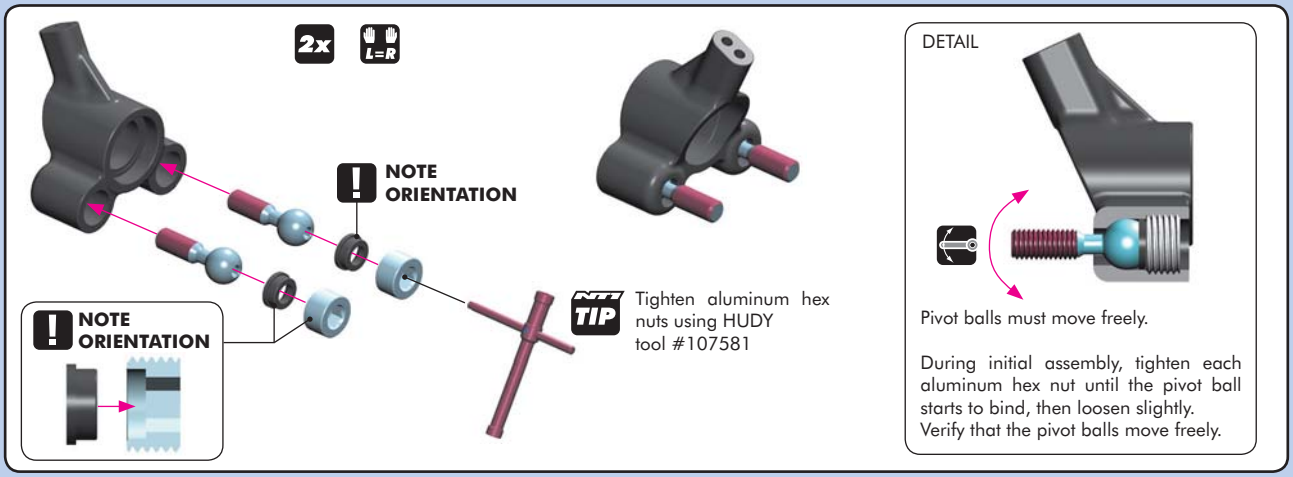


901305
SB M3x5

903310
SFH M3x10



SET-UP BOOK
REAR ANTI-ROLL BAR ADJUSTMENT



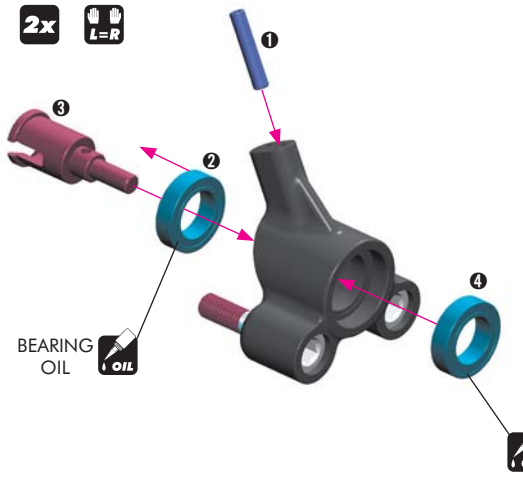
REAR SUSPENSION

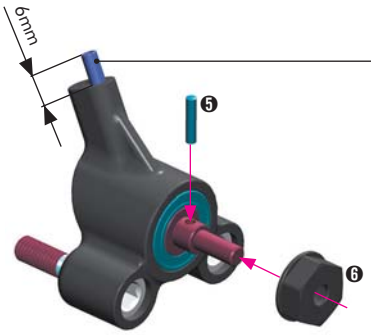
901316
SB M3x16

981210
P 2x10

941016
BB 10x16x4

SET-UP BOOK
REAR CAMBER RISE ADJUSTMENT





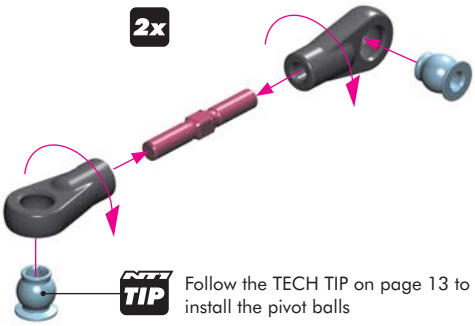
INITIAL POSITION



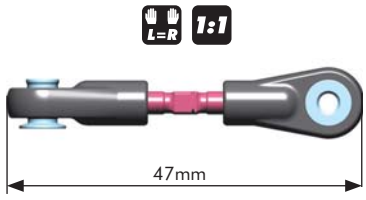
SET-UP BOOK
REAR CAMBER ADJUSTMENT



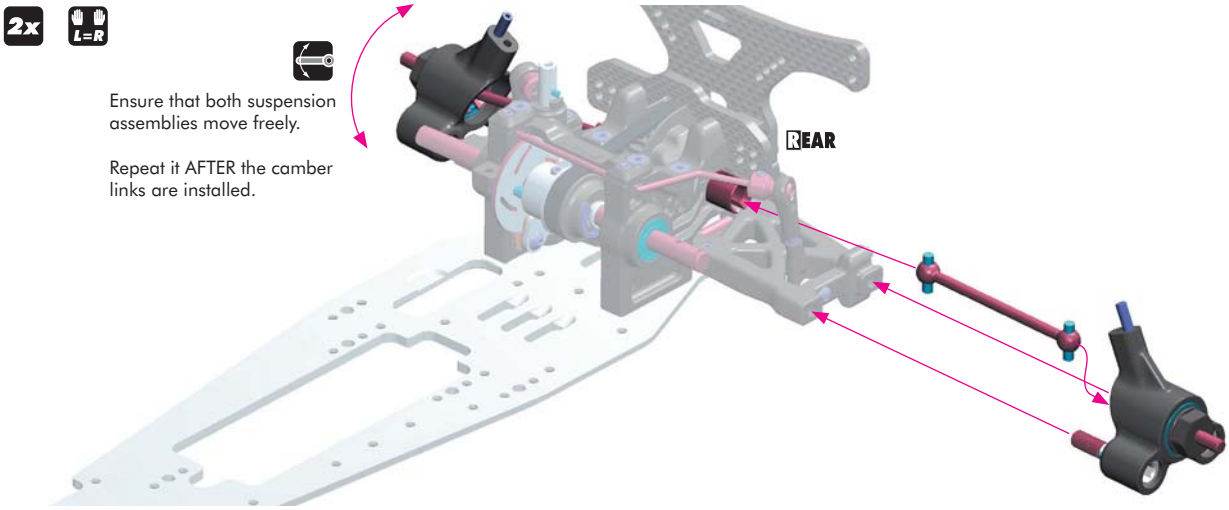
Use ball joints WITH DOT



Follow the TECH TIP on page 13 to install the pivot balls



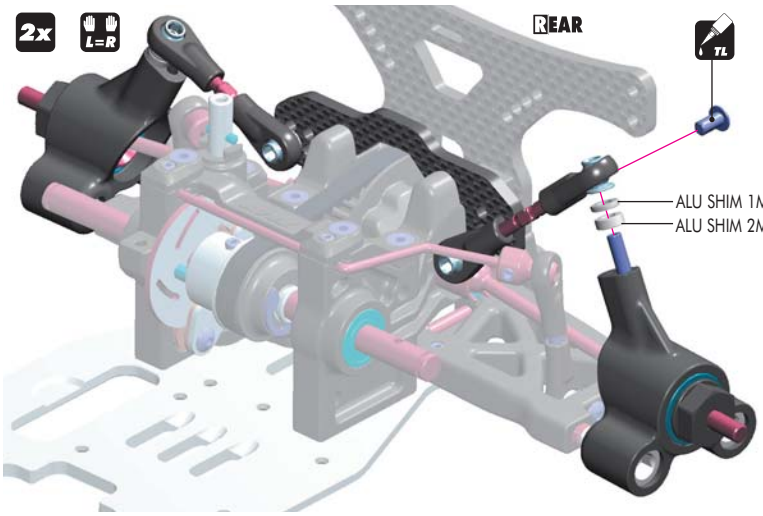
NOTE THE 90° ANGLE DIFFERENCE BETWEEN THE BALL JOINTS



Ensure that both suspension assemblies move freely.

Repeat it AFTER the camber links are installed.

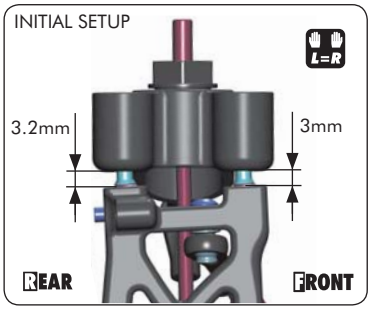
902306
SH M3x6





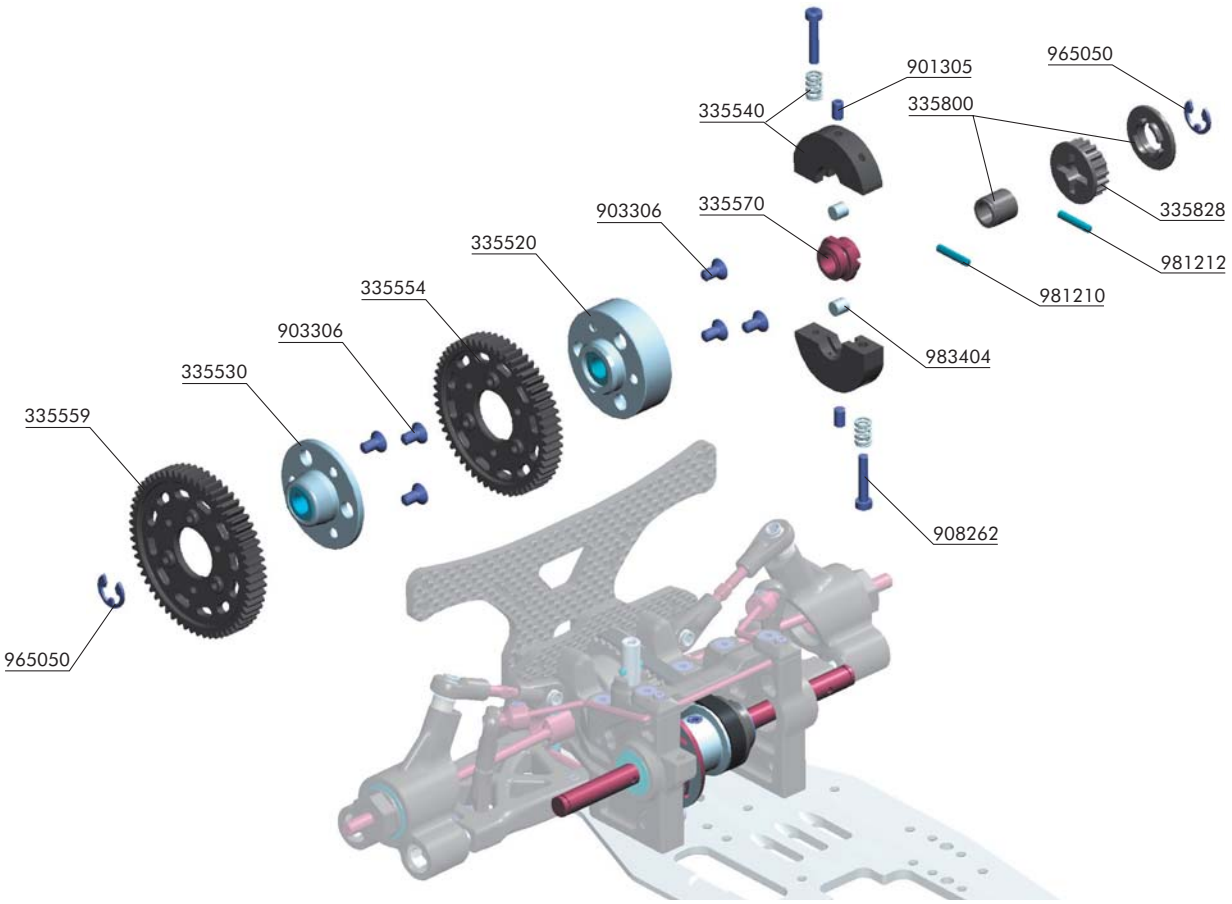
INITIAL POSITION

INITIAL SETUP



SET-UP BOOK
REAR ROLL CENTER ADJUSTMENT
REAR TOE-IN ADJUSTMENT

3. REAR TRANSMISSION



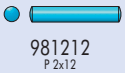
BAG

03

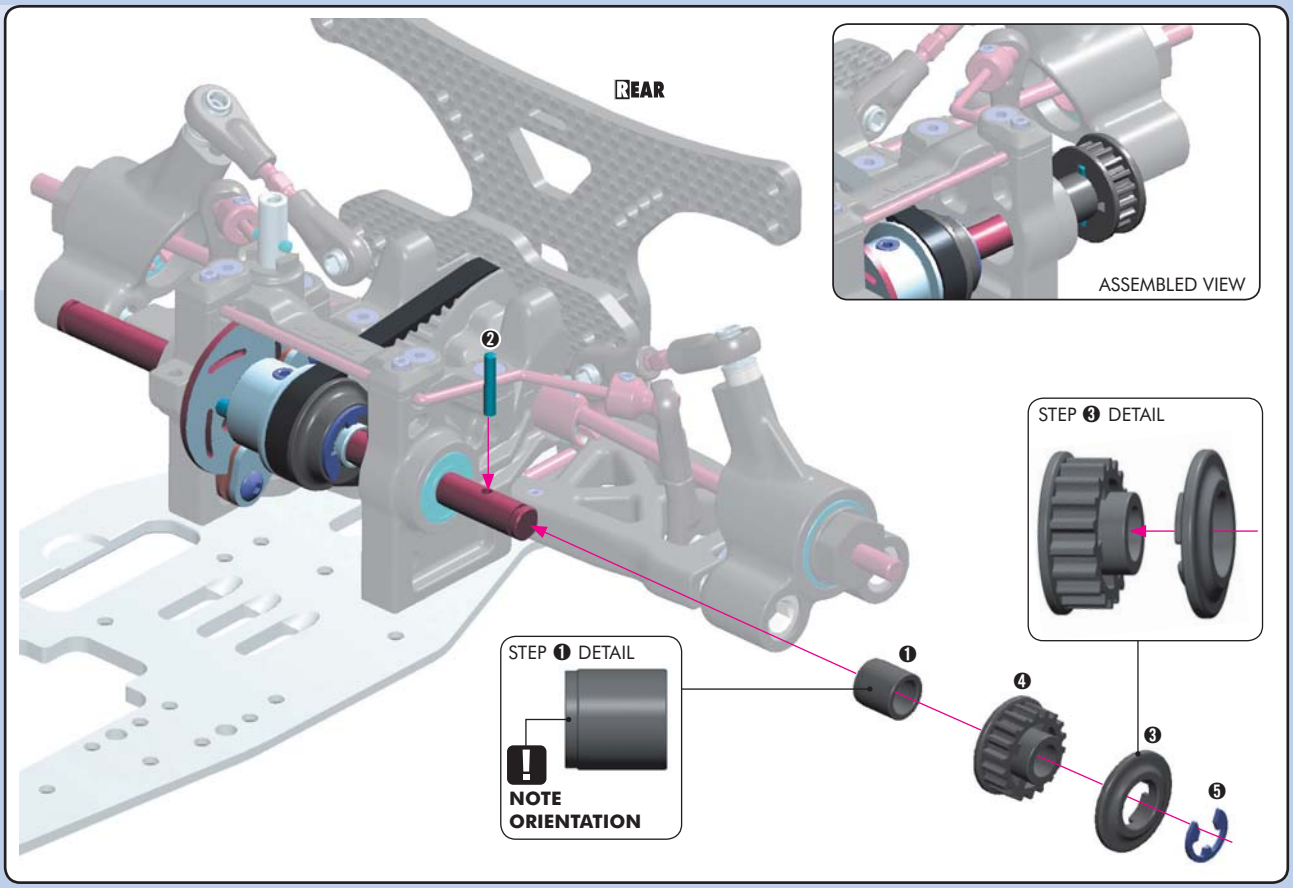
33 5520	CARRIER FOR 2-SPEED GEAR (2nd) - ALU 7075 T6 + BALL-BEARING	90 1305	HEX SCREW SB M3x5 (10)
33 5530	DRIVE FLANGE WITH ONE-WAY BEARING - ALU 7075 T6	90 3306	HEX SCREW SFH M3x6 (10)
33 5540	COMPOSITE 2-SPEED GEAR BOX SHOE SET	90 8262	HEX SCREW SOCKET HEAD CAP M2.5x12 (10)
33 5554	COMPOSITE 2-SPEED GEAR 54T (2nd)	96 5050	E-CLIP 5 (10)
33 5559	COMPOSITE 2-SPEED GEAR 59T (1st)	98 1210	PIN 2x10 (10)
33 5570	ADAPTER 2-SPEED - HUDY SPRING STEEL™	98 1212	PIN 2x12 (10)
33 5800	COMPOSITE BELT PULLEY COVER SET	98 3404	ROLLER PIN 4x4 MM (2)
33 5828	COMPOSITE BELT PULLEY 18T - 2-SPEED-SIDE		



965050
C 5



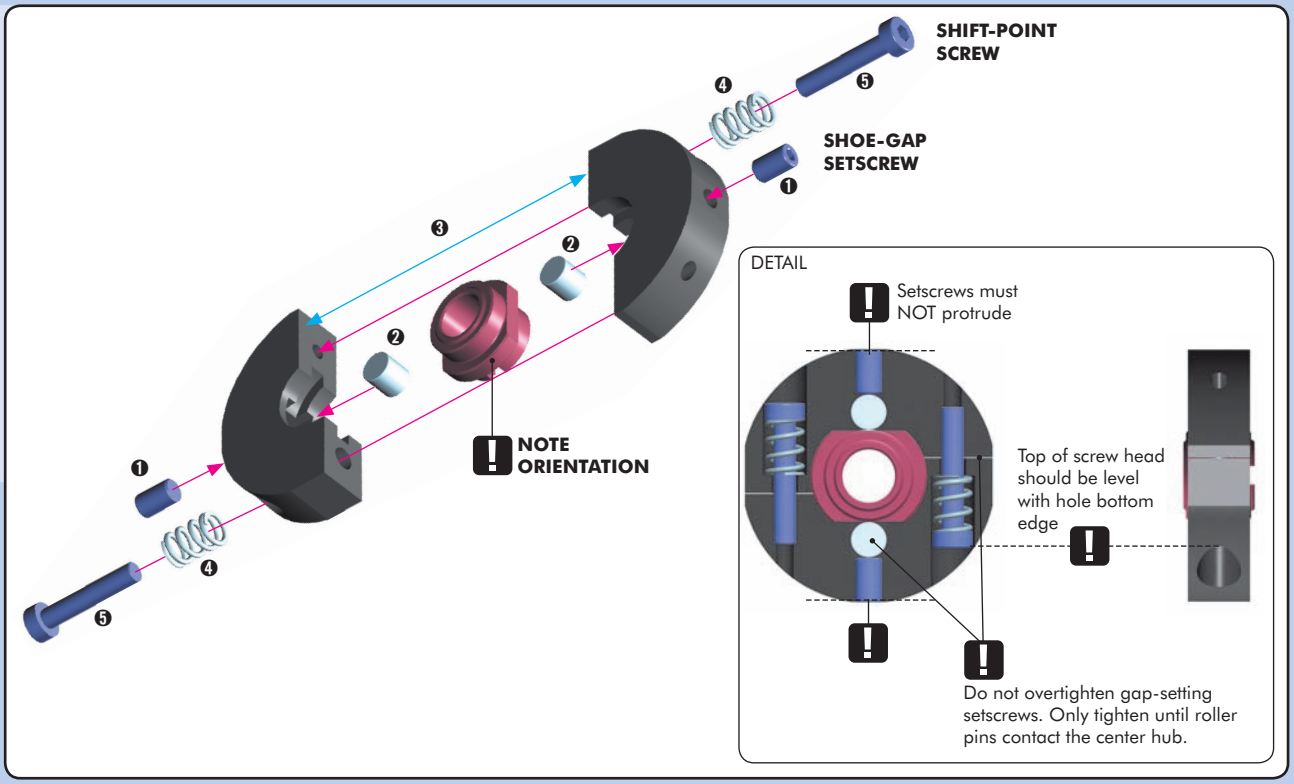
981212
P 2x12



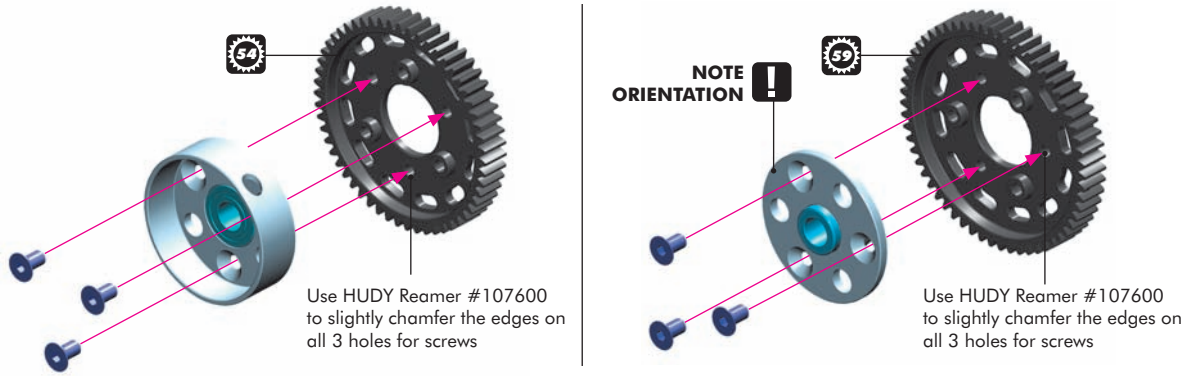
901305
SB M3x5

908262
SCH M2.5x12

983404
RP 4x4

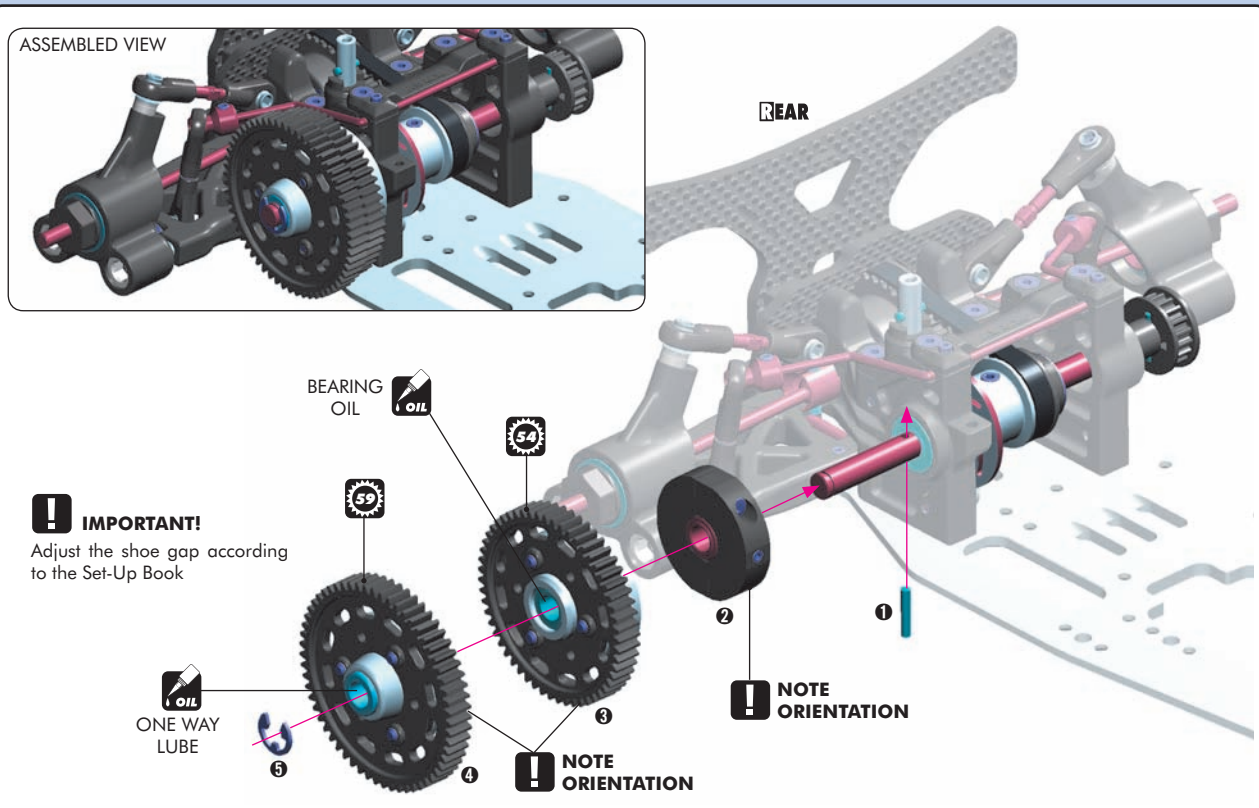


903306
SFH M3x6



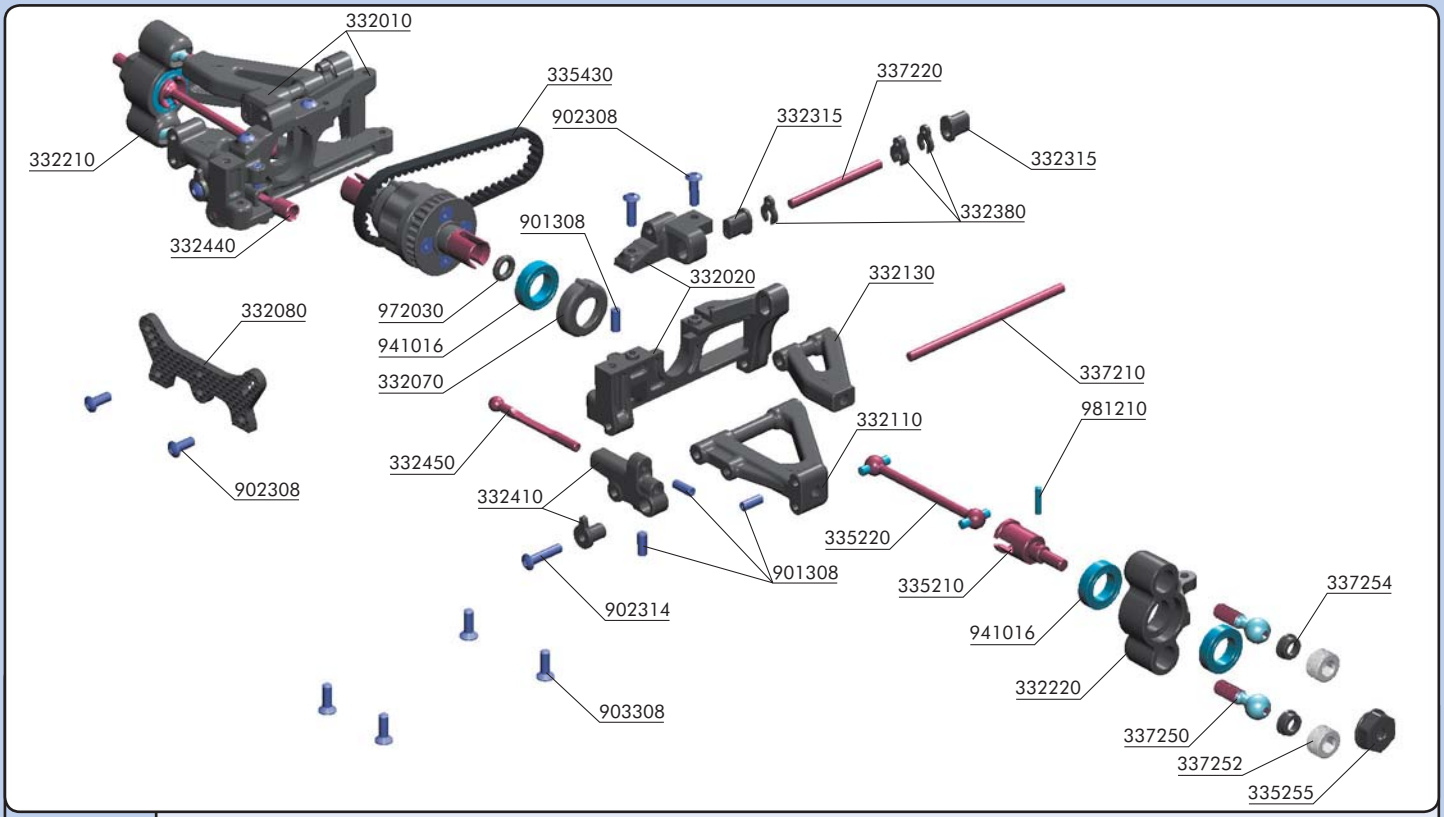
965050
C 5

981210
P 2x10



SET-UP BOOK
TRANSMISSION ADJUSTMENT

4. FRONT SUSPENSION

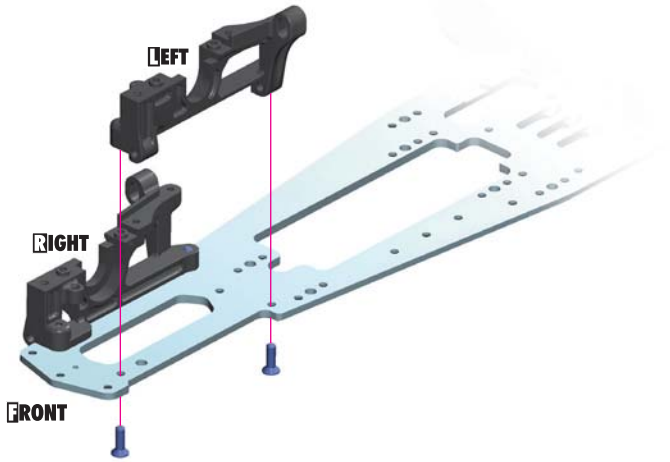


BAG 04

33 2010	COMPOSITE LOWER & UPPER BULKHEAD FRONT RIGHT	33 5255	COMPOSITE WHEEL HUB (2)
33 2020	COMPOSITE LOWER & UPPER BULKHEAD FRONT LEFT	33 5430	PUR REINFORCED DRIVE BELT FRONT 3 x 186 MM
33 2070	COMPOSITE ADJUST. BALL-BEARING HUB (4)	33 7210	FRONT LOWER INNER PIVOT PIN (2)
33 2080	GRAPHITE SHOCK TOWER FRONT 2.5MM	33 7220	FRONT UPPER PIVOT PIN (2)
33 2110	COMPOSITE SUSPENSION ARM FRONT LOWER	33 7250	STEEL PIVOT BALL 8.4 MM (2)
33 2130	COMPOSITE SUSPENSION ARM FRONT UPPER	33 7252	ALU ADJUSTING NUT M10x1 (4)
33 2210	COMPOSITE STEERING BLOCK RIGHT	33 7254	COMPOSITE BALL CUP 8.4 MM (8)
33 2220	COMPOSITE STEERING BLOCK LEFT		
33 2315	COMPOSITE SUSP. ECCENTRIC BUSHING (4)	90 1308	HEX SCREW SB M3x8 (10)
33 2380	COMPOSITE CASTER CLIPS (2)	90 2308	HEX SCREW SH M3x8 (10)
33 2410	COMPOSITE FRONT ANTI-ROLL BAR HOLDER & ECCENTRIC (2+2)	90 2314	HEX SCREW SH M3x14 (10)
33 2440	ANTI-ROLL BAR FRONT FEMALE - HUDY SPRING STEEL™	90 3308	HEX SCREW SFH M3x8 (10)
33 2450	ANTI-ROLL BAR FRONT MALE - HUDY SPRING STEEL™	94 1016	HIGH-SPEED BALL-BEARING 10x16x4 RUBBER SEALED (2)
33 5210	DRIVE AXLE - HUDY SPRING STEEL™	97 2030	SILICONE O-RING 3x2 (10)
33 5220	DRIVE SHAFT - 55 MM - HUDY SPRING STEEL™	98 1210	PIN 2x10 (10)

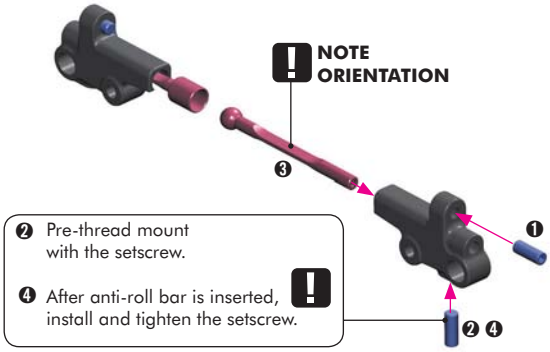


903308
SFH M3x8





901308
SB M3x8



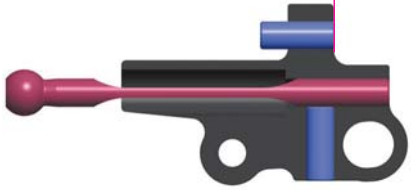
❷ Pre-thread mount with the setscrew.

❹ After anti-roll bar is inserted, install and tighten the setscrew.

CUTAWAY VIEW

L=R

Setscrew should be flush



FRONT SUSPENSION

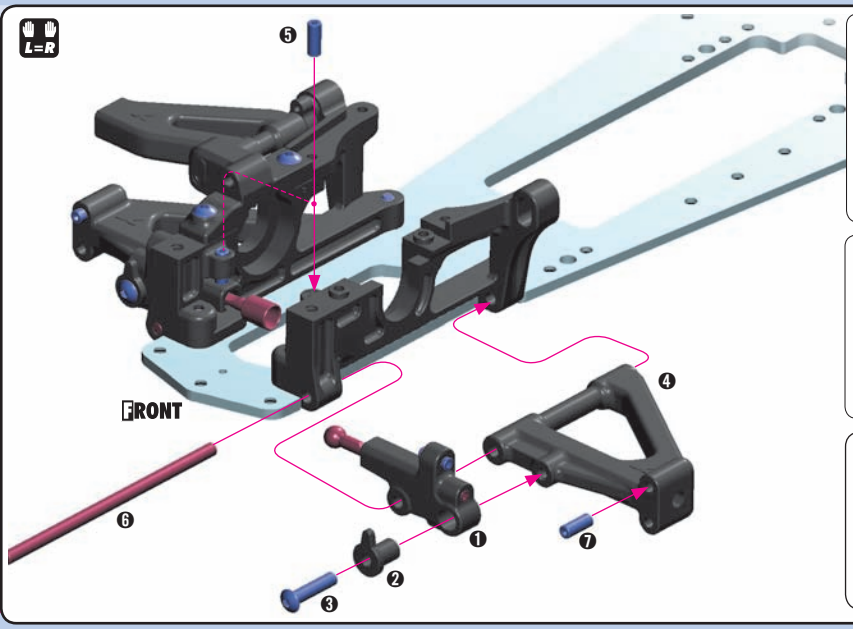


901308
SB M3x8



902314
SH M3x14

SET-UP BOOK
FRONT ANTI-ROLL BAR ADJUSTMENT
DOWNSTOP ADJUSTMENT



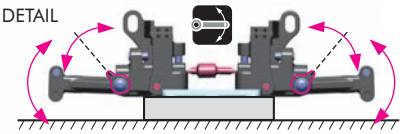
FRONT ANTI-ROLL BAR

Each anti-roll bar blade has a hex hole at its end. Use a 1.5mm hex wrench to adjust the blades.

1.5mm

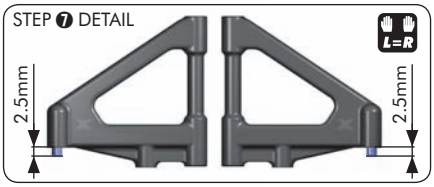
Do not insert ball into cup too deeply or bars will bind during operation

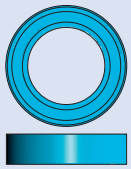
DETAIL



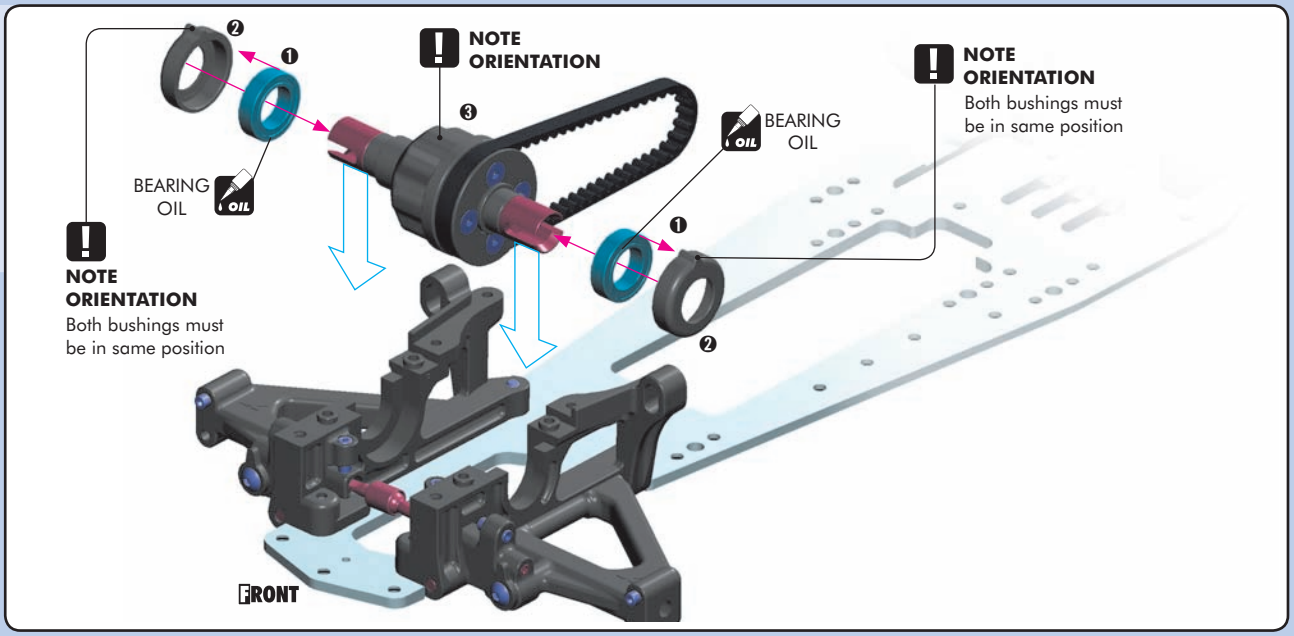
Ensure that the suspension arms move freely.
Ensure that the eccentric holders move freely.

STEP 7 DETAIL



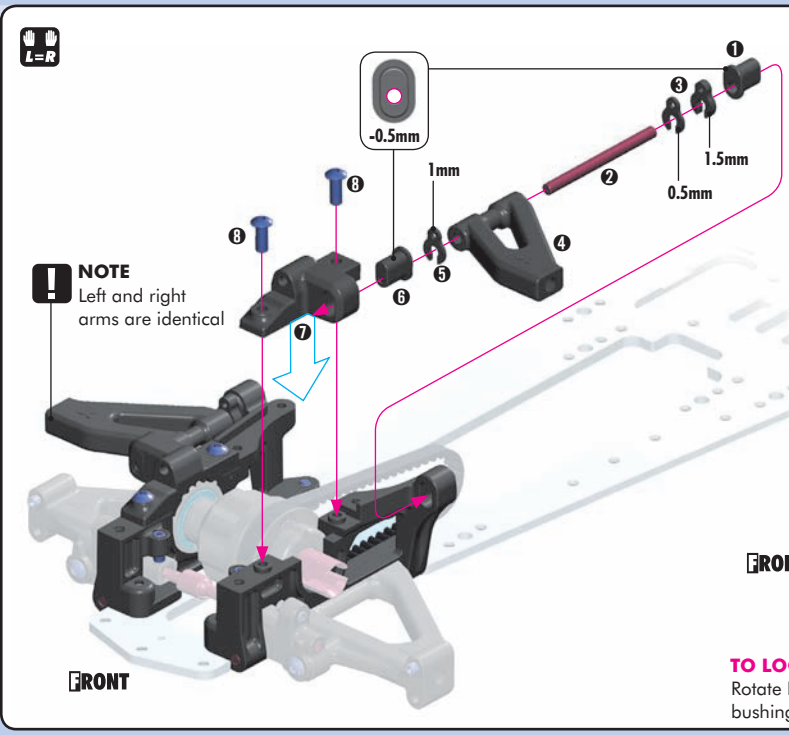


941016
BB 10x16x4

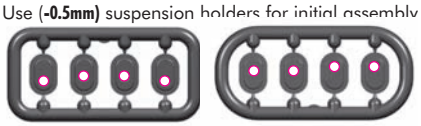




902308
SH M3x8

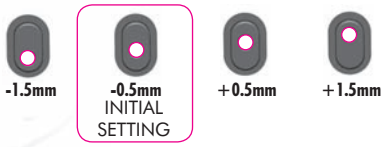


Use (**-0.5mm**) suspension holders for initial assembly



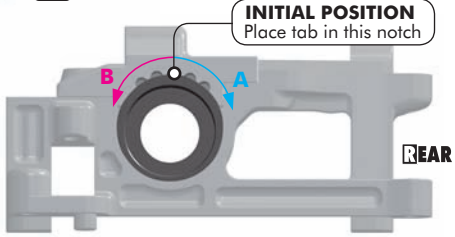
There are two different frames, rounded and square, however both feature the same eccentric holders

FRONT ROLL CENTER INSERT POSITIONS



L=R **FRONT BELT TENSION ADJUSTMENT**

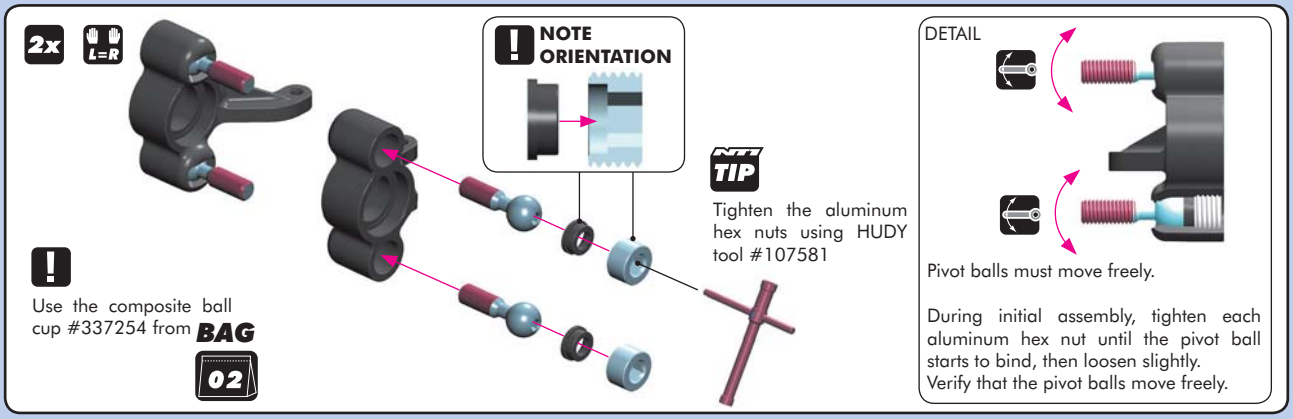
INITIAL POSITION
Place tab in this notch



TO LOOSEN FRONT BELT
Rotate BOTH front composite bushings in arrow direction (B)

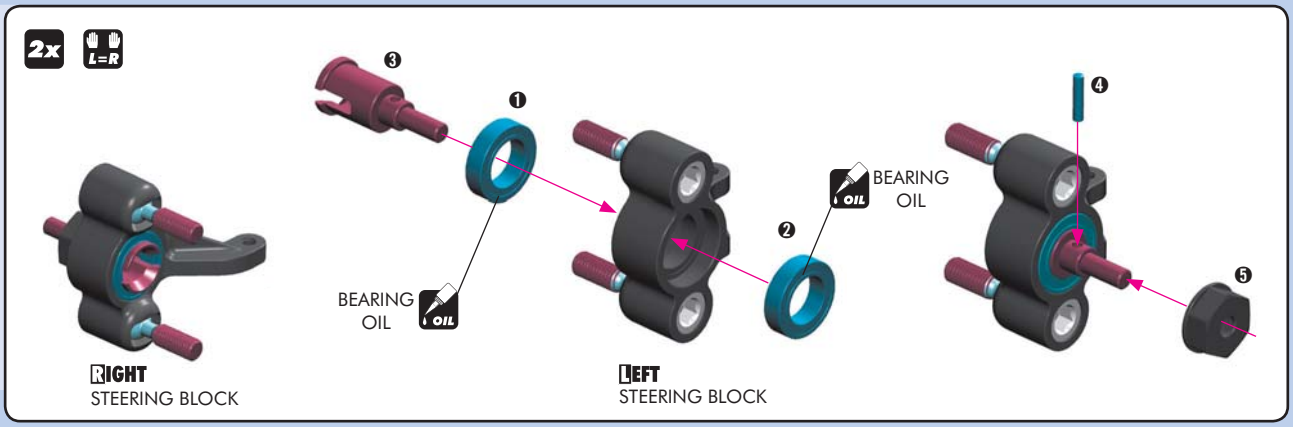
TO TIGHTEN FRONT BELT
Rotate BOTH front composite bushings in arrow direction (A)

SET-UP BOOK
FRONT ROLL CENTER ADJUSTMENT

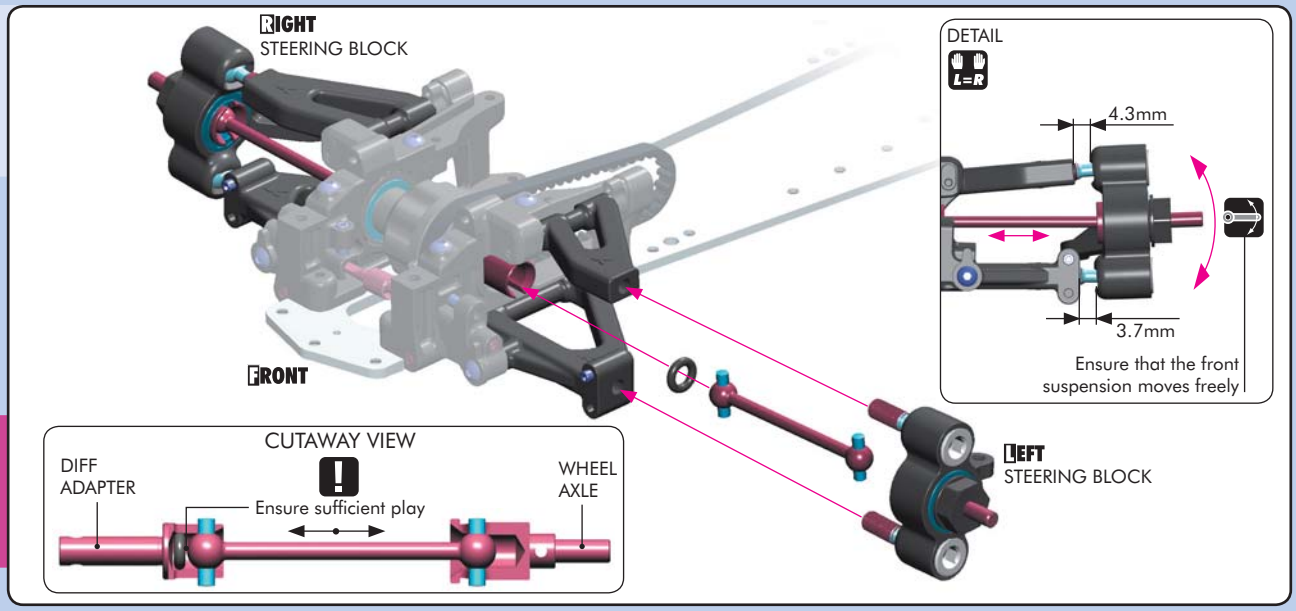


941016
BB 10x16x4

981210
BB 10x16x4

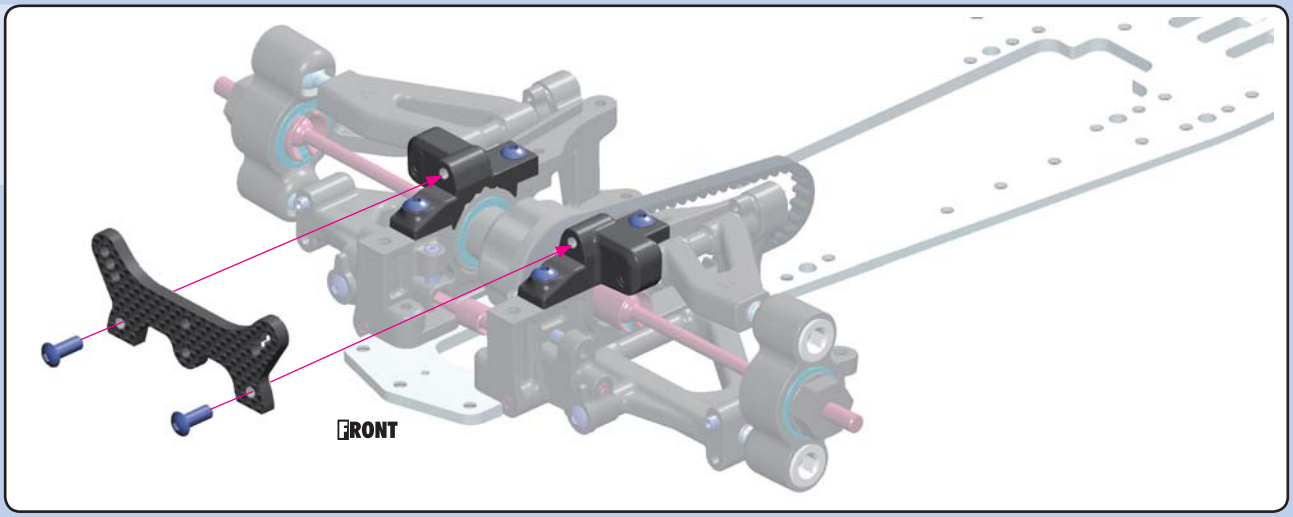


972030
O 3x2

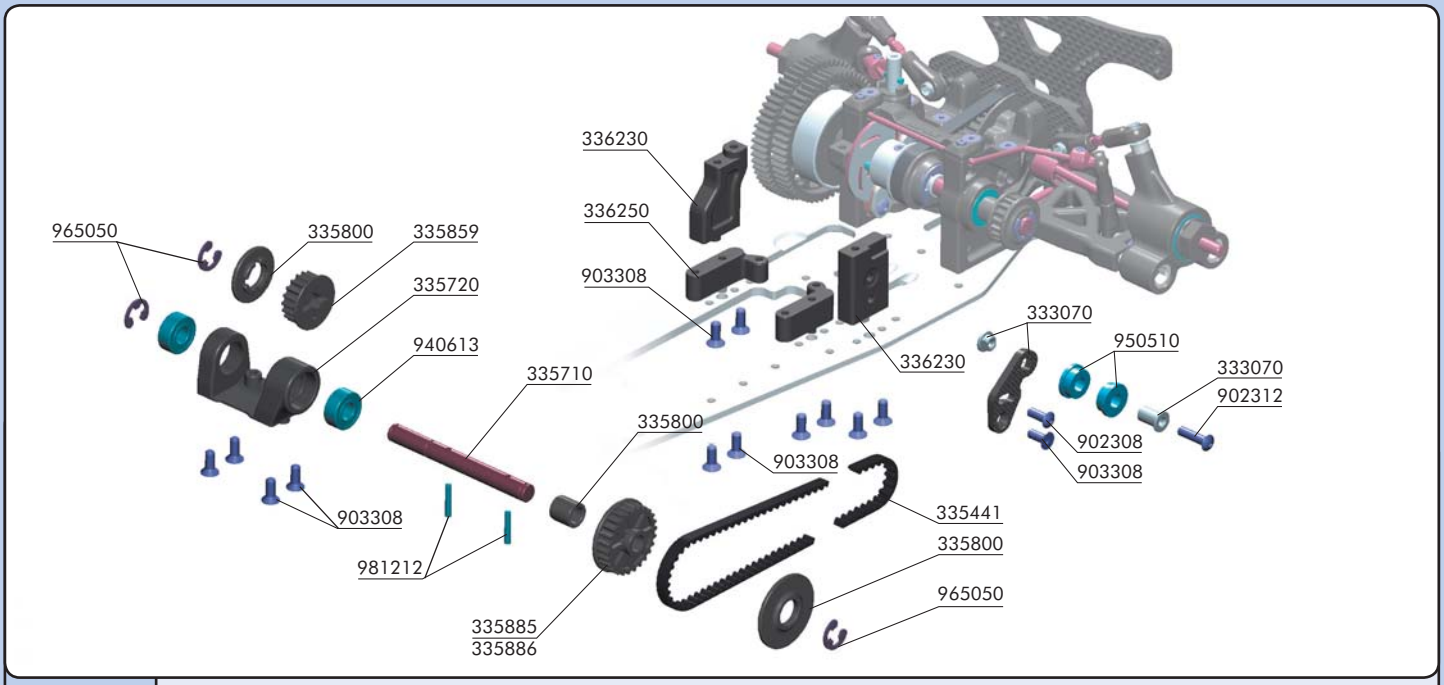


SET-UP BOOK
FRONT WHEELBASE & CAMBER ADJUSTMENT

902308
SH M3x8



5. FRONT TRANSMISSION

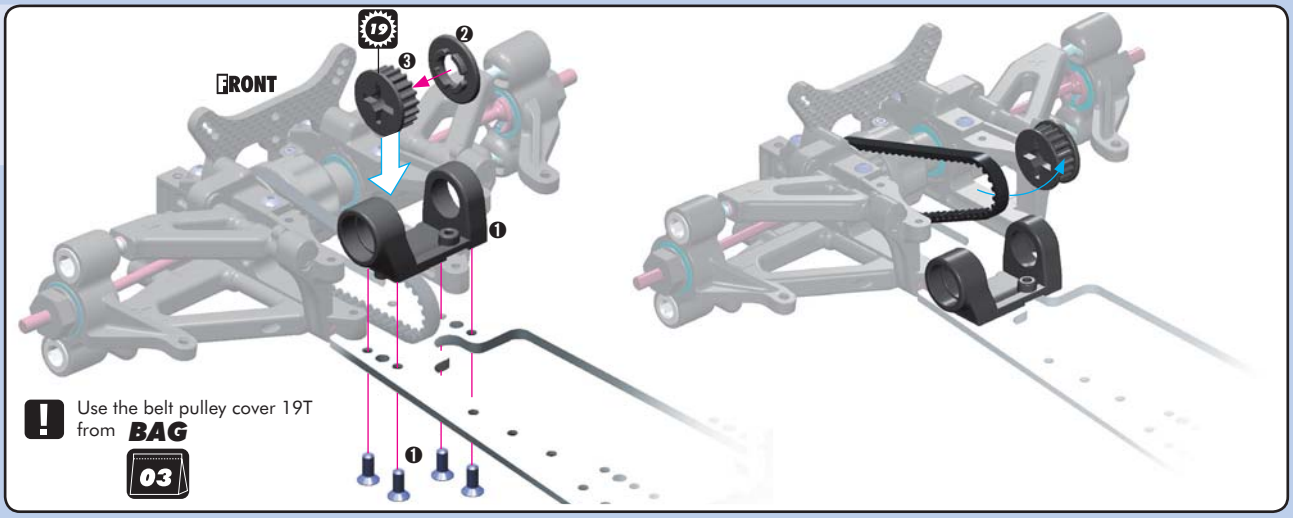


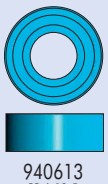
BAG 05

33 3070	BELT TENSIONER SET	33 6250	COMPOSITE BATTERY MOUNT L+R (2)
33 5441	PUR REINFORCED DRIVE BELT SIDE 3 x 390 MM		
33 5710	FRONT MIDDLE SHAFT	90 2308	HEX SCREW SH M3x8 (10)
33 5720	COMPOSITE FRONT MIDDLE SHAFT HOLDER	90 2312	HEX SCREW SH M3x12 (10)
33 5800	COMPOSITE BELT PULLEY COVER SET	90 3308	HEX SCREW SFH M3x8 (10)
33 5859	COMPOSITE BELT PULLEY 19T - MID-CENTER	94 0613	HIGH-SPEED BALL-BEARING 6x13x5 RUBBER SEALED (2)
33 5885	COMPOSITE BELT PULLEY 25T - MID-SIDE	95 0510	BALL-BEARING FR85ZZ 5x10x4 FLANGED (2)
33 5886	COMPOSITE BELT PULLEY 26T - MID-SIDE	96 5050	E-CLIP 5 (10)
33 6230	COMPOSITE RADIO PLATE MOUNTS (1+1)	98 1212	PIN 2x12 (10)



903308
SFH M3x6

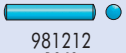




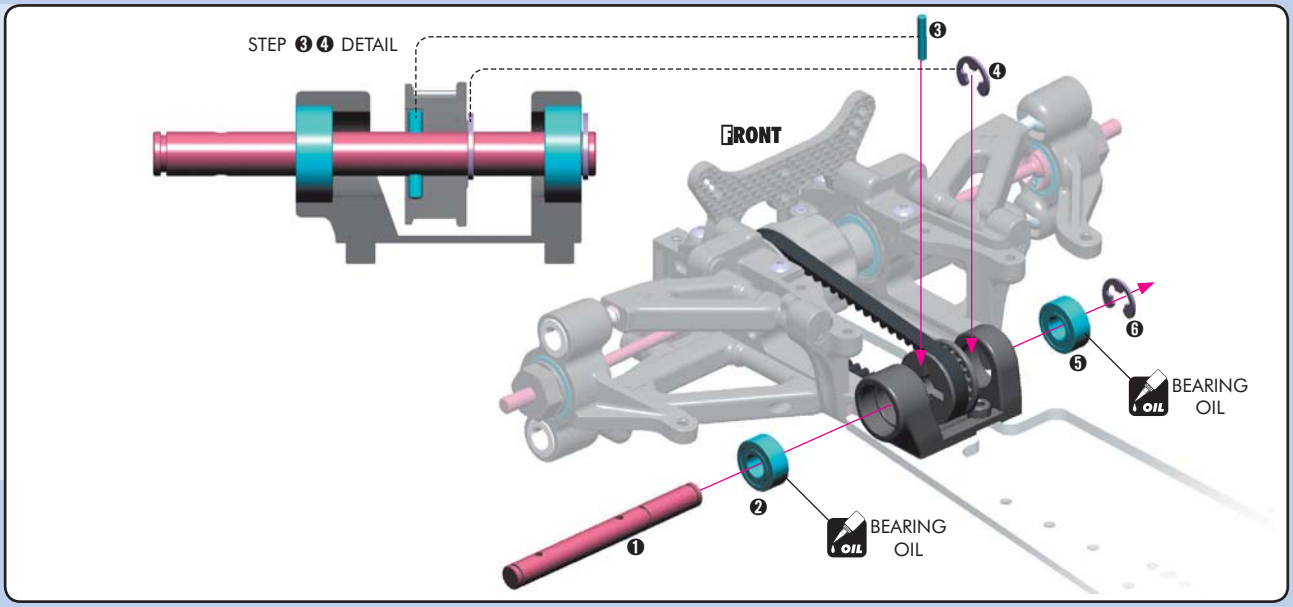
940613
BB 6x13x5



965050
C 5



981212
P 2x12

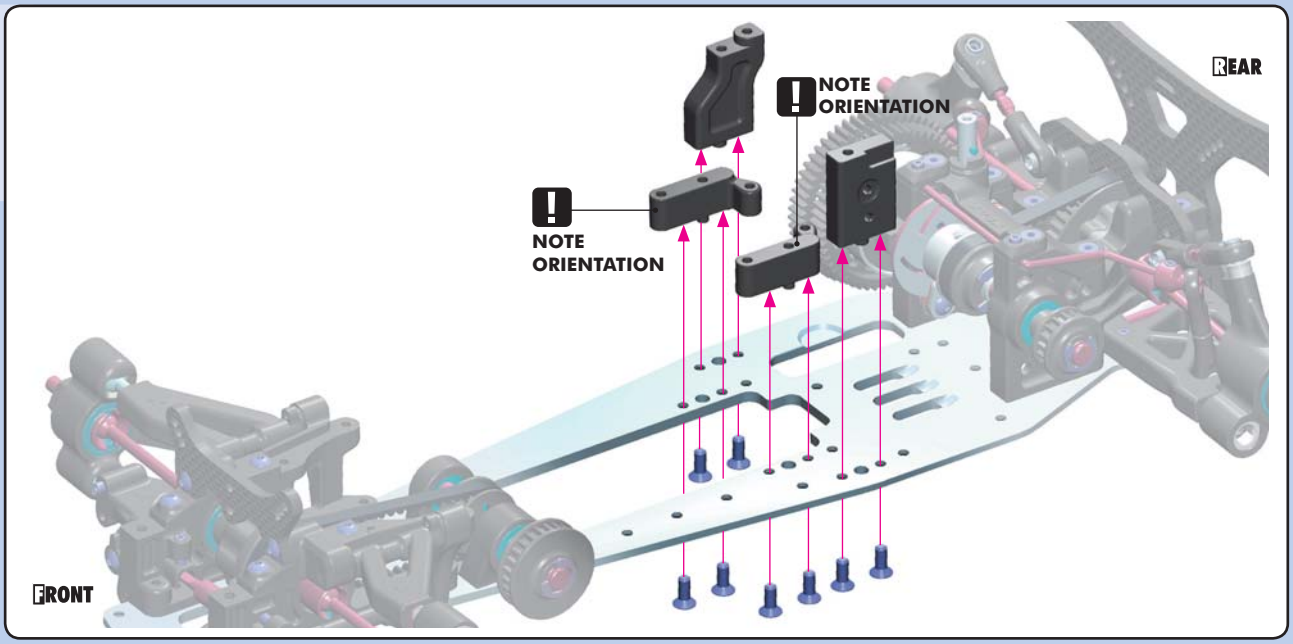


965050
C 5

981212
P 2x12



903308
SFH M3x8

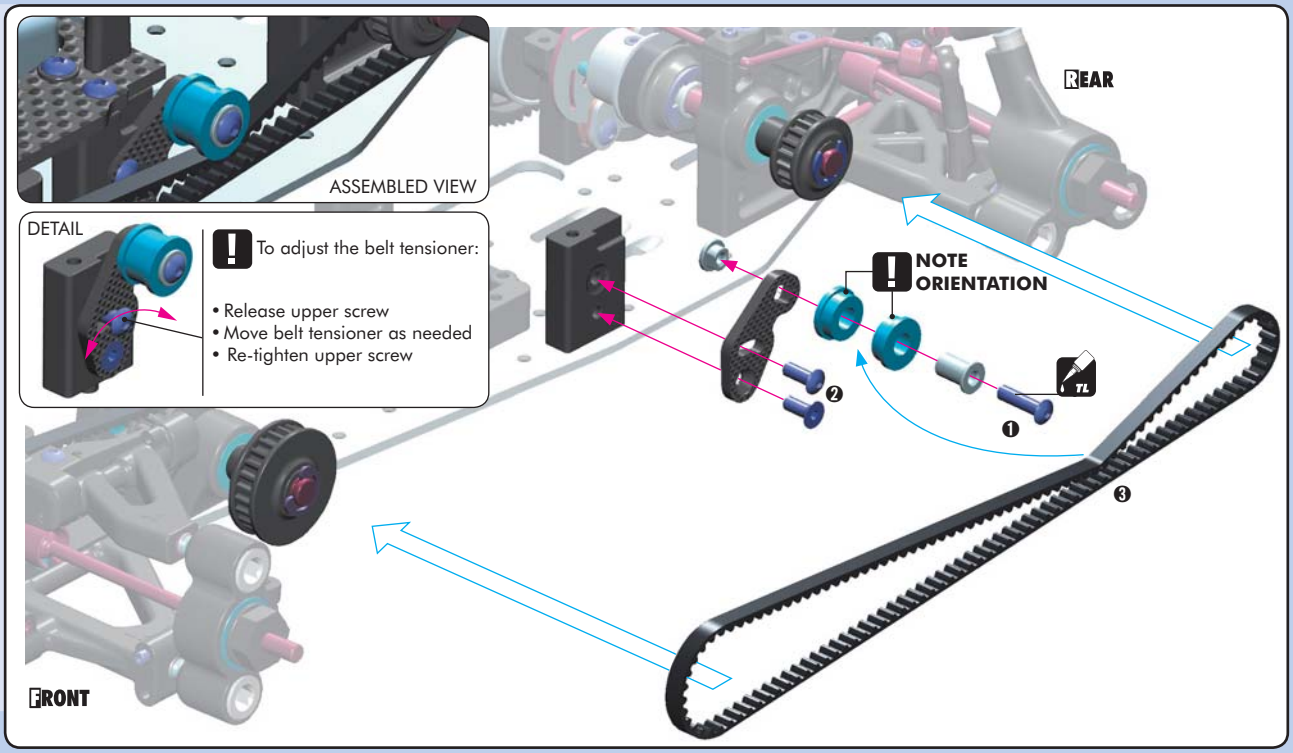


903308
SFH M3x8

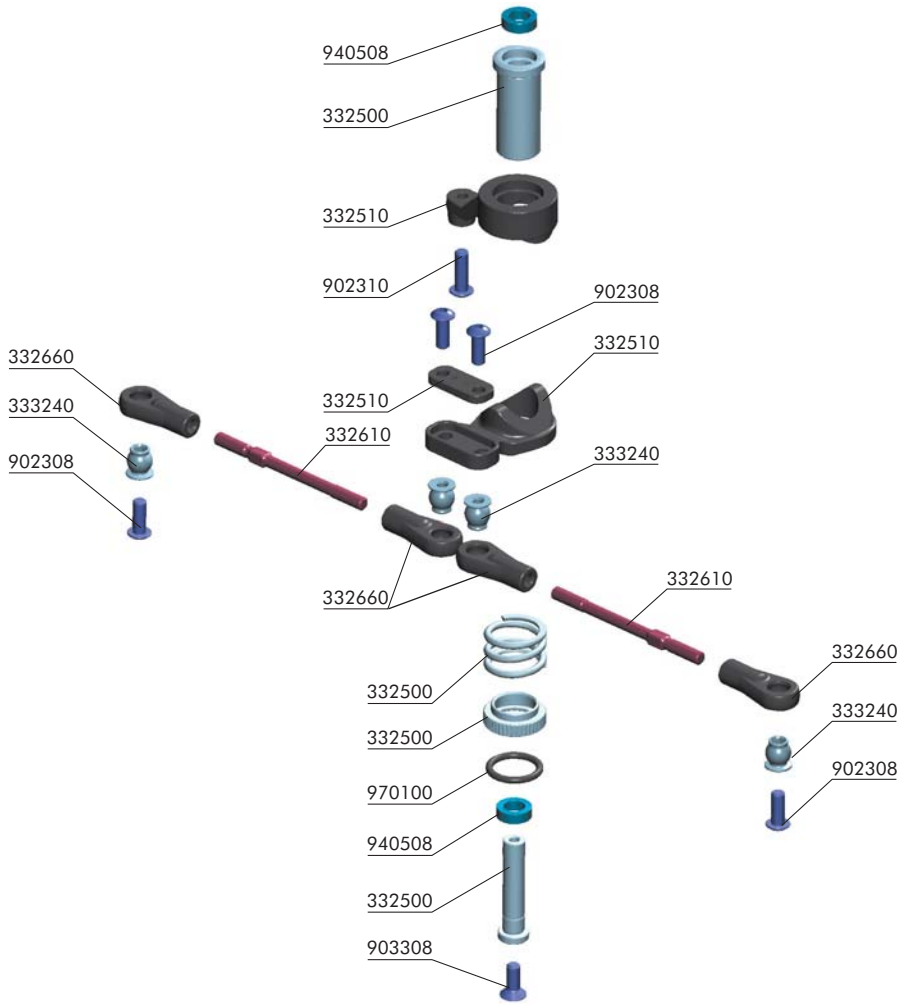
902308
SH M3x8

902312
SH M3x12

950510
BB 5x10x4



6. STEERING



BAG

06

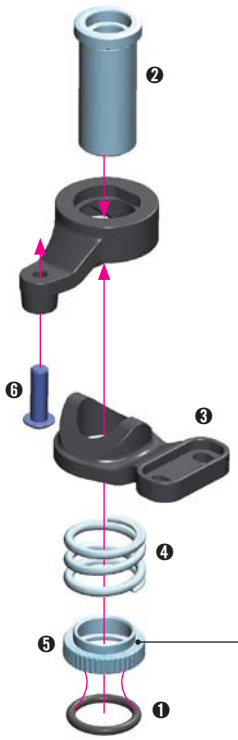
33 2500	SERVO SAVER COMPLETE SET	90 3308	HEX SCREW SFH M3x8 (10)
33 2510	COMPOSITE SERVO SAVER	94 0508	HIGH-SPEED BALL-BEARING 5x8x2.5 RUBBER SEALED (2)
33 2610	ADJ. TURNBUCKLE L/R 42 MM - HUDY SPRING STEEL™ (2)	97 0100	O-RING 10 x 1.5 (10)
33 2660	COMPOSITE STEERING & SERVO BALL JOINT 5.8 MM (4+2)		
33 3240	BALL UNIVERSAL 5.8 MM HEX (4)		
90 2308	HEX SCREW SH M3x8 (10)		
90 2310	HEX SCREW SH M3x10 (10)		

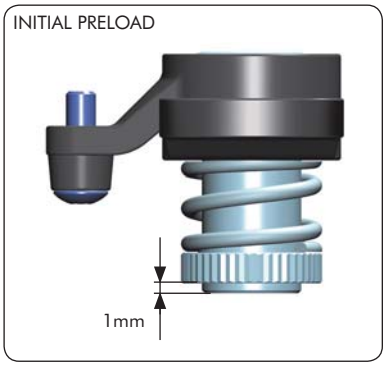


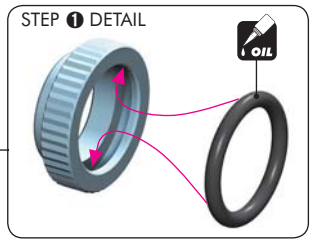
902310
SH M3x10



970100
O 10x1.5







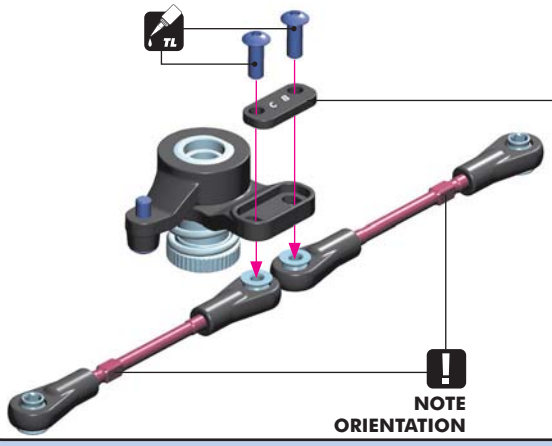
TIP Follow the TECH TIP on page 12 to install the pivot balls



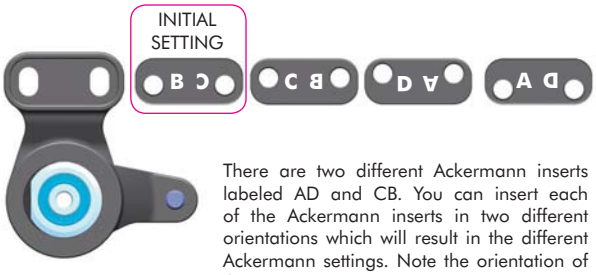
L=R 1:1



902308
SH M3x8



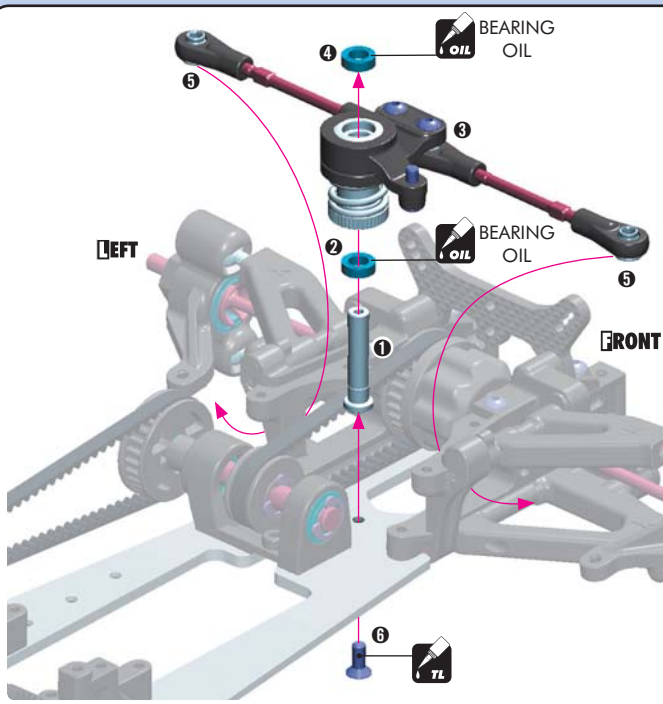
ACKERMANN SETTINGS



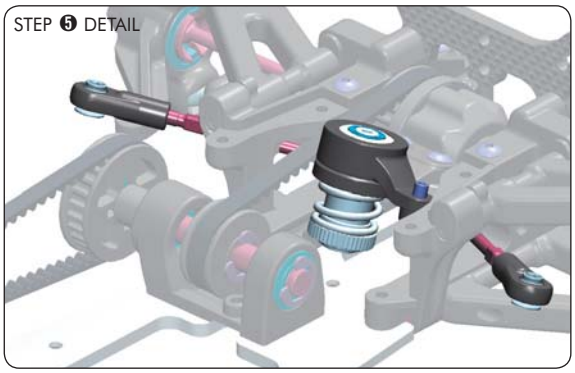
There are two different Ackermann inserts labeled AD and CB. You can insert each of the Ackermann inserts in two different orientations which will result in the different Ackermann settings. Note the orientation of the mounting positions.

903308
SFH M3x8

940508
BB 5x8x2.5



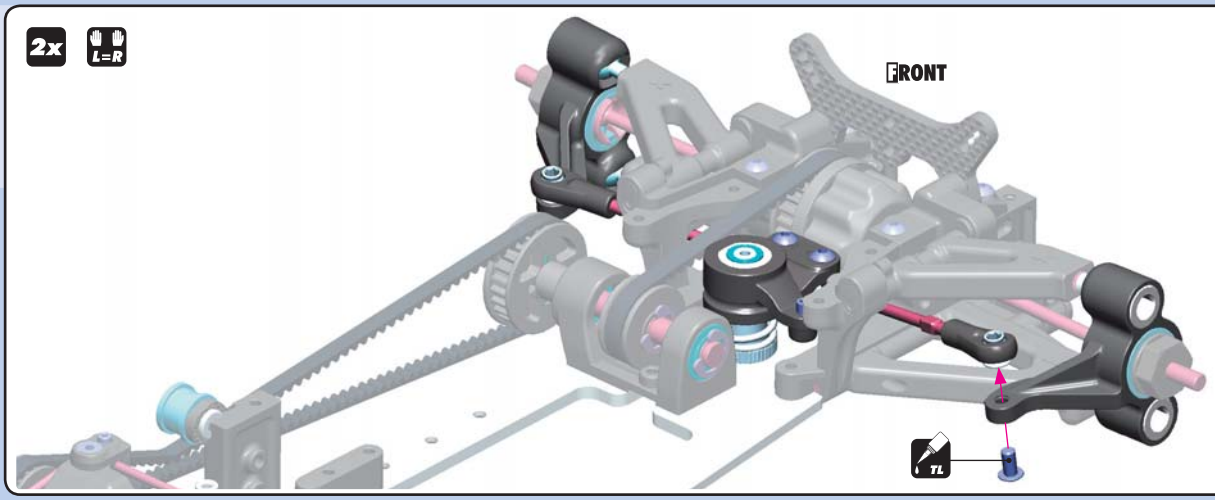
STEP ❺ DETAIL



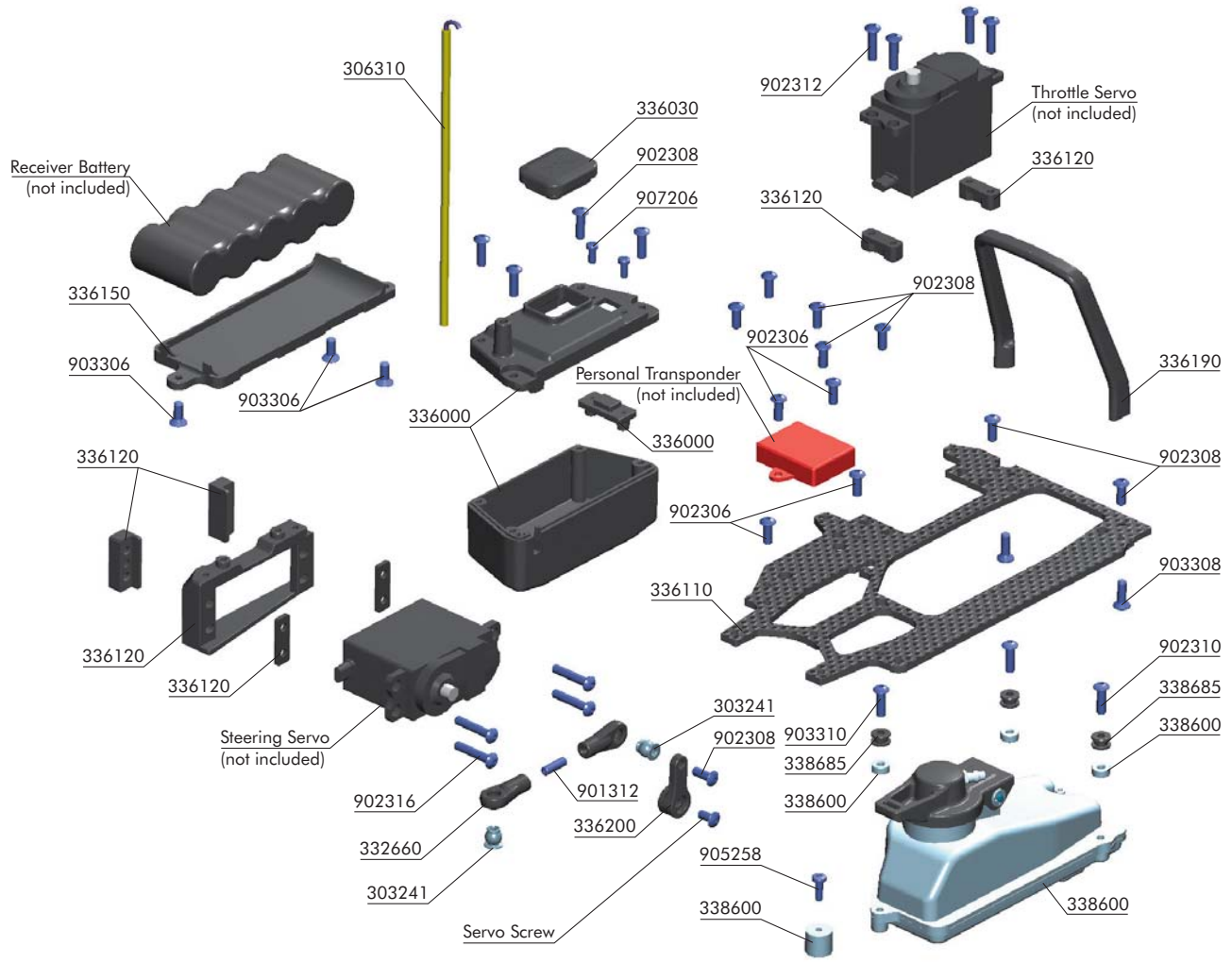
SET-UP BOOK
ACKERMANN ADJUSTMENT

902308
SH M3x8

2x L=R



7. FUEL TANK & ELECTRONICS



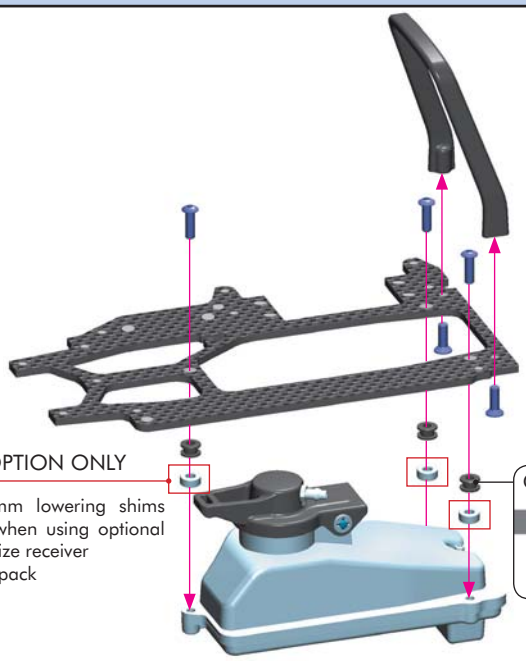
BAG 07

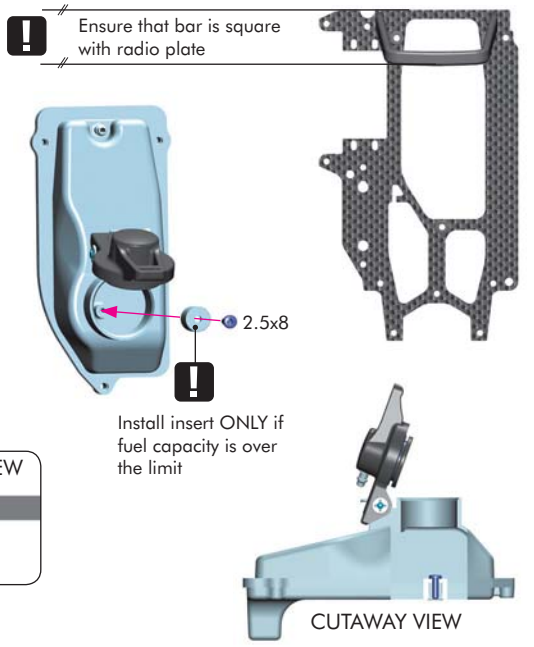
30 3241	BALL UNIVERSAL 5.8 MM HEX (4)	33 8685	FUEL TANK MOUNTING GROMMET (3)
30 6310	ANTENNA TUBE (2)		
		90 1312	HEX SCREW SB M3x12 (10)
33 2660	COMPOSITE STEERING & SERVO BALL JOINT 5.8 MM (4+2)	90 2306	HEX SCREW SH M3x6 (10)
33 6000	COMPOSITE RECEIVER CASE	90 2308	HEX SCREW SH M3x8 (10)
33 6030	RUBBER RECEIVER CASE COVER	90 2310	HEX SCREW SH M3x10 (10)
33 6110	GRAPHITE RADIO PLATE	90 2312	HEX SCREW SH M3x12 (10)
33 6120	COMPOSITE STEERING SERVO HOLDER - SET	90 2316	HEX SCREW SH M3x16 (10)
33 6150	COMPOSITE BATTERY PLATE	90 3306	HEX SCREW SFH M3x6 (10)
33 6190	COMPOSITE ROLL-OVER BAR	90 3308	HEX SCREW SFH M3x8 (10)
33 6200	STEERING SERVO ARMS - SET	90 5258	SCREW PHILLIPS 2.5x8 (10)
33 8600	FUEL TANK 75CC - SET	90 7206	SCREW PHILLIPS M2x6 (10)


902310
SH M3x10


903306
SFH M3x6

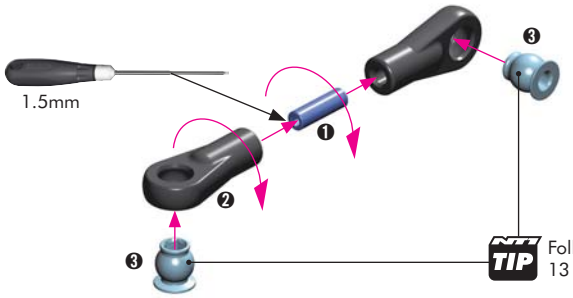

905258
2.5x8







901312
SB M3x12



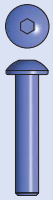
Follow the TECH TIP on page 13 to install the pivot balls



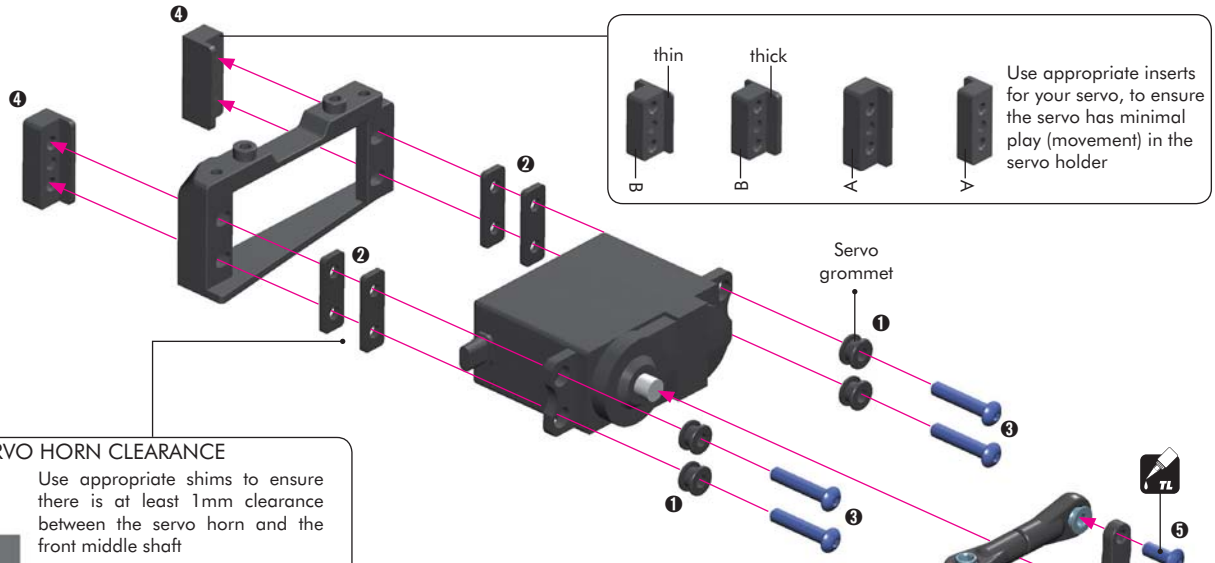
Note the 90° angle difference between the ball joints



902308
SH M3x8

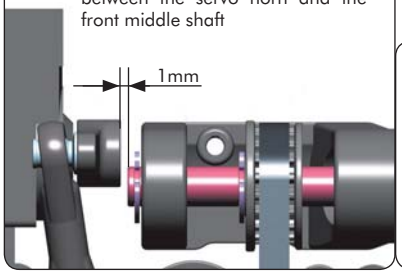


902316
SH M3x16

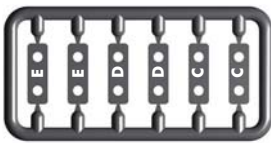


SERVO HORN CLEARANCE

Use appropriate shims to ensure there is at least 1mm clearance between the servo horn and the front middle shaft



Use different servo shims depending on your steering servo.



E=2.5mm D=1.5mm C=1mm

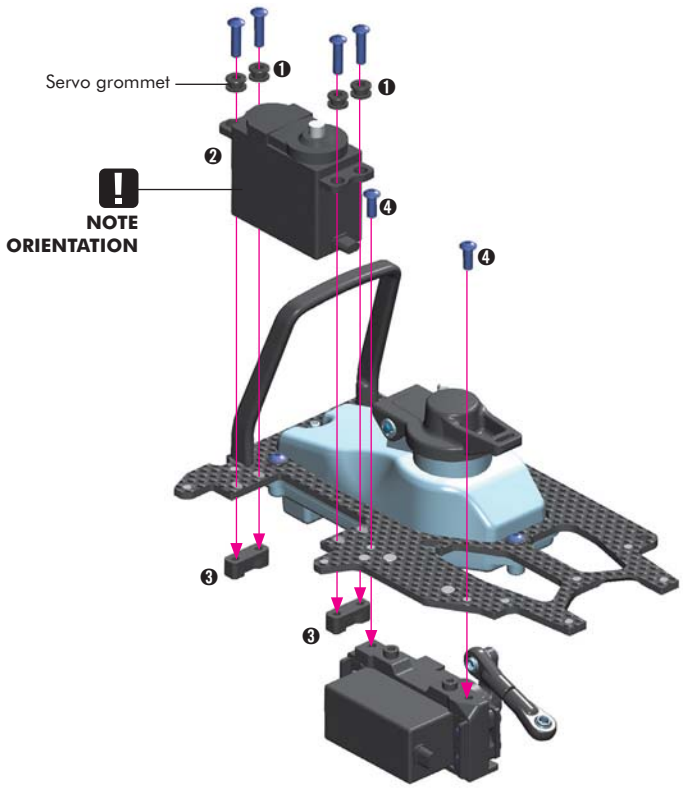
K = KO, JR, Airtronics, Sanwa
F = Futaba, Robe
H = Hitec



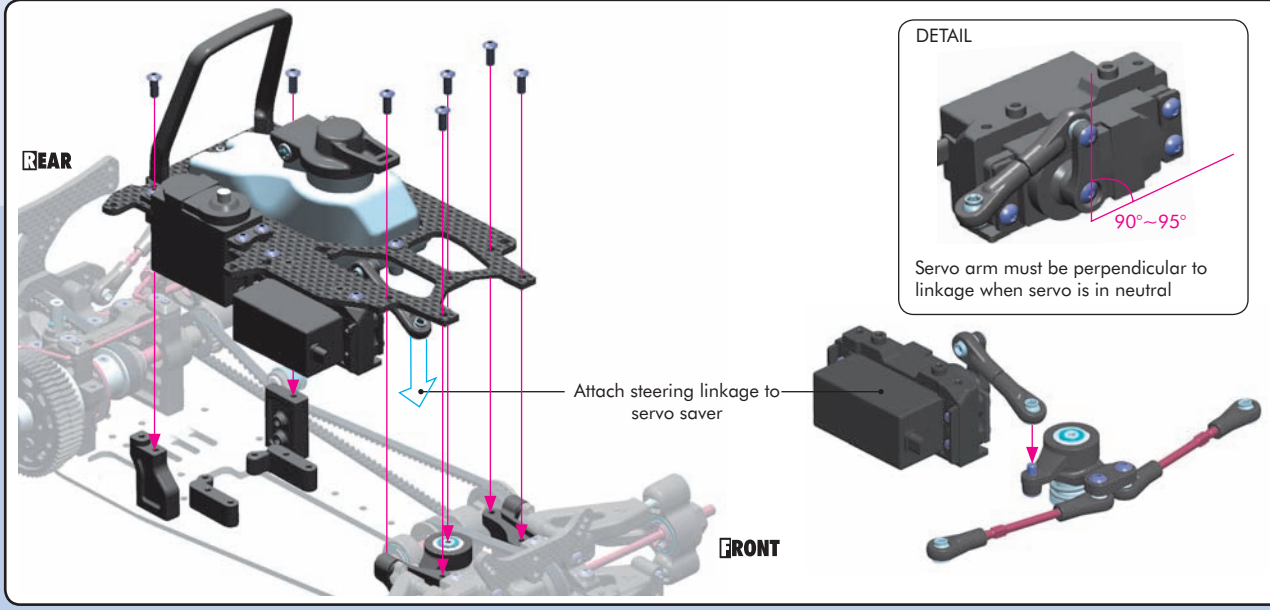
902306
SH M3x6



902312
SH M3x12



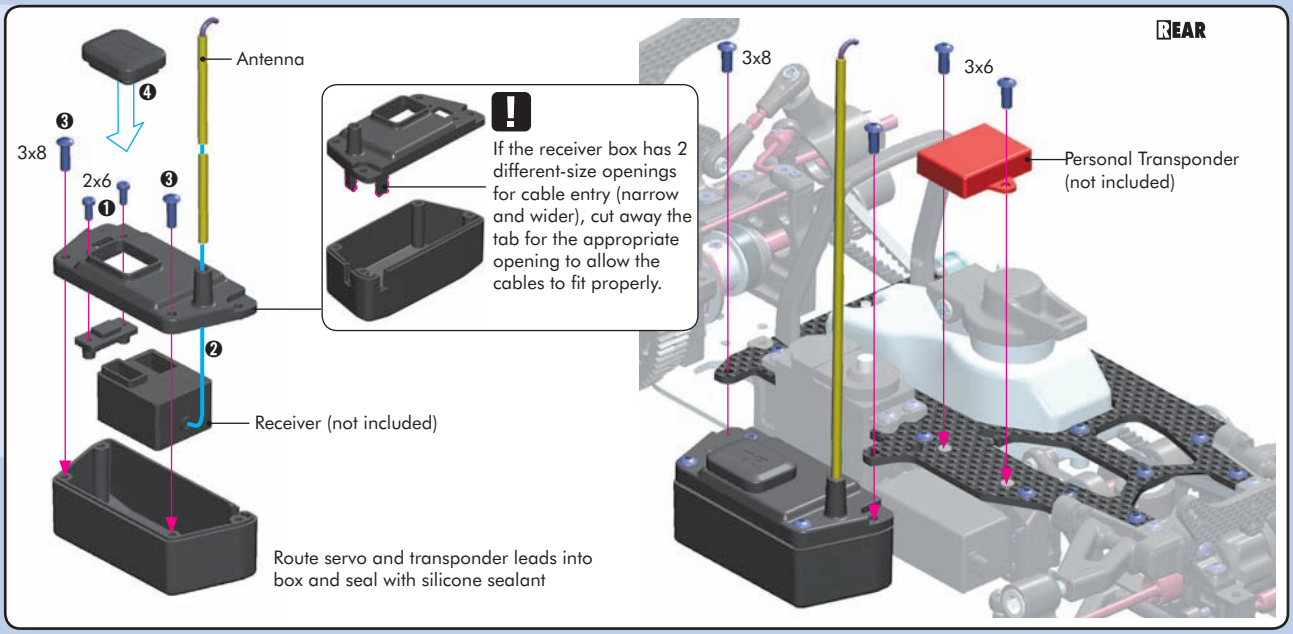
902308
SH M3x8

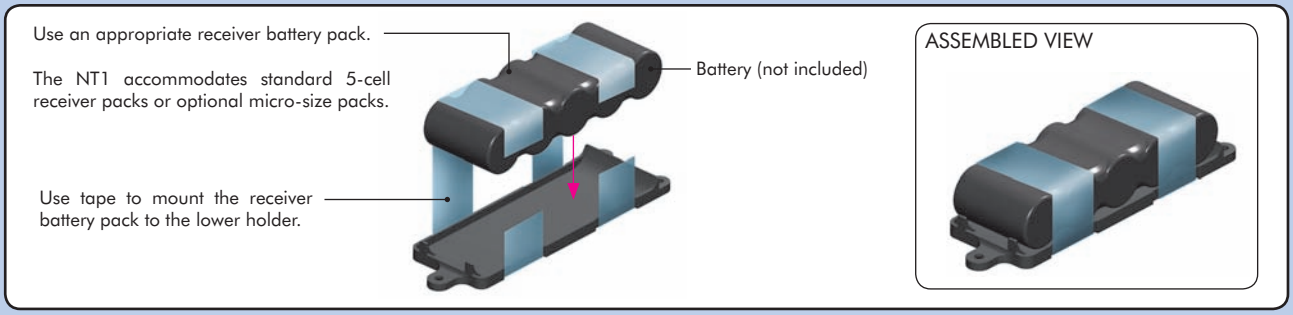


902306
SH M3x6

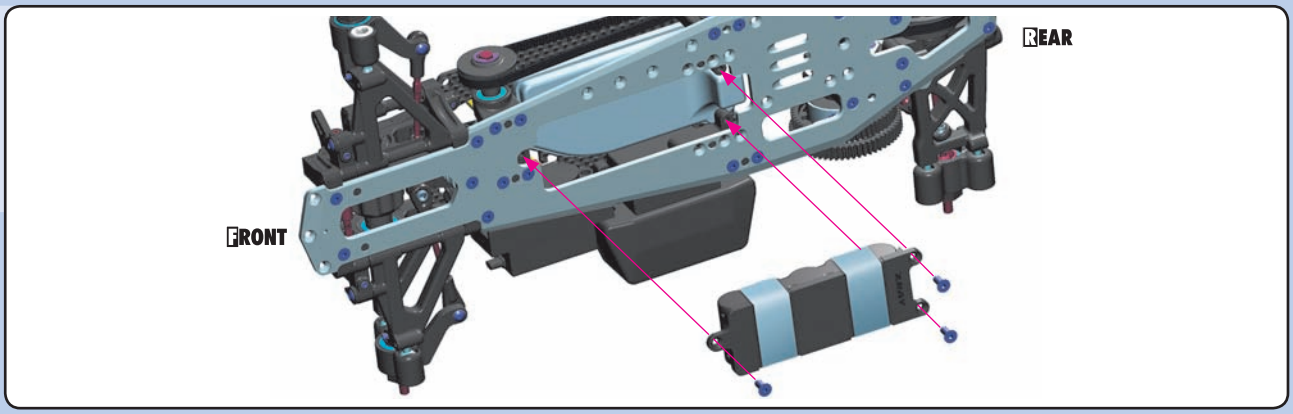
902308
SH M3x8

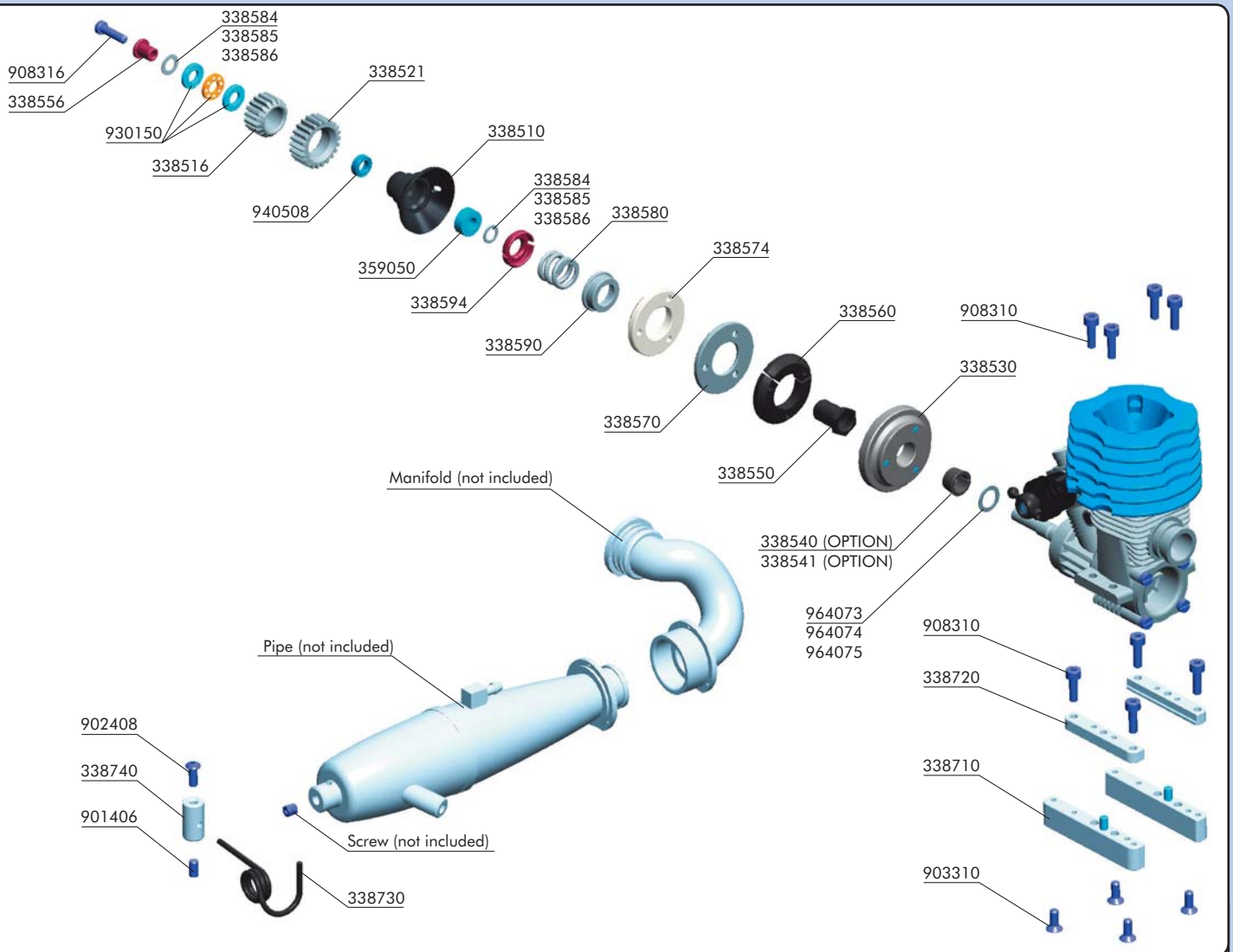
907206
2x6





903306
SFH M3x6





BAG 08

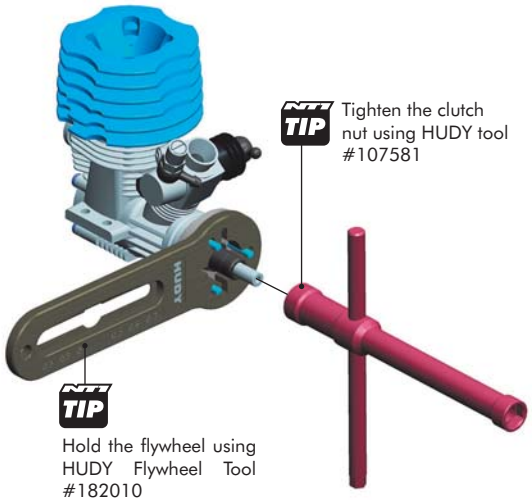
33 8510	CLUTCH BELL - HUDY STEEL	33 8710	ALU ENGINE MOUNT (2)
33 8516	XCA ALU 7075 T6 HARD COATED PINION GEAR - 16T (1ST)	33 8720	ALU STAND FOR ENGINE MOUNT (2)
33 8521	XCA ALU 7075 T6 HARD COATED PINION GEAR - 21T (2ND)	33 8730	EXHAUST MOUNTING WIRE
33 8530	FLYWHEEL - ALU 7075 T6 - HARD COATED	33 8740	EXHAUST WIRE MOUNT
33 8540	FLYWHEEL COLLAR 7MM - NOVAROSSI (OPTION)		
33 8541	FLYWHEEL COLLAR 6MM - PICCO (OPTION)	35 9050	CLUTCH BELL BALL-BEARING MR105ZZ 5x10x4 (2)
33 8550	FLYWHEEL NUT - HUDY SPRING STEEL™		
33 8556	CLUTCH BELL BUSHING - HUDY SPRING STEEL™	90 1406	HEX SCREW SB M4x6 (10)
33 8560	CLUTCH FLYWEIGHT - BLACK (3)	90 2408	HEX SCREW SH M4x8 (10)
33 8570	CLUTCH DISK - ALU 7075 T6	90 3310	HEX SCREW SFH M3x10 (10)
33 8574	CLUTCH SHOE - WHITE	90 8310	HEX SCREW SOCKET HEAD CAP M3x10 (10)
33 8580	CLUTCH SPRING	90 8316	HEX SCREW SOCKET HEAD CAP M3x16 (10)
33 8584	SHIM 5x7x0.2 (10)	93 0150	CARBIDE BALL-BEARING AXIAL F5-10 5x10x4 WITH GROOVE
33 8585	SHIM 5x7x0.3 (10)	94 0508	HIGH-SPEED BALL-BEARING 5x8x2.5 RUBBER SEALED (2)
33 8586	SHIM 5x7x0.5 (10)	96 4073	WASHER S 7x10x0.2 (10)
33 8590	CLUTCH SPRING CUP - ALU 7075 T6	96 4074	WASHER S 7x10x0.3 (10)
33 8594	CLUTCH PRELOAD ADJ. NUT - HUDY SPRING STEEL™	96 4075	WASHER S 7x10x0.5 (10)

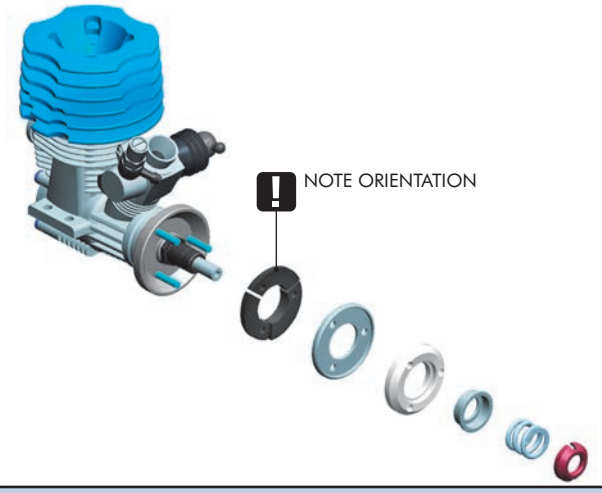

964073
S 7x10x0.2

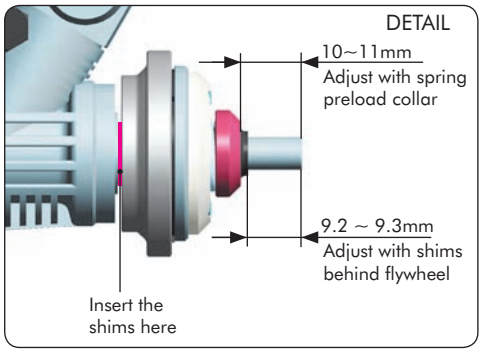

964074
S 7x10x0.3


964075
S 7x10x0.5









338584
S 5x7x0.2

338585
S 5x7x0.3

338586
S 5x7x0.5

940508
BB 5x8x2.5

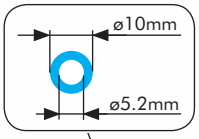
359050
BB 5x10x4

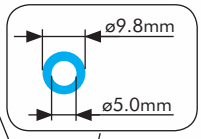
930150
BA 5x10

908316
SCH M3x16



TIP ENDPLAY SHIMS
These shims are used to adjust clutchbell endplay.

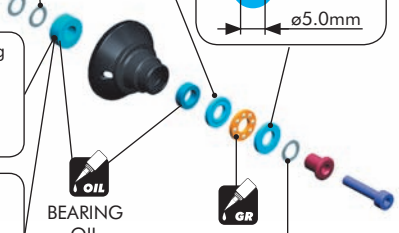




DO NOT INSTALL this bearing when setting clutch gap

INSTALL this bearing when setting endplay

IMPORTANT
Degrease this bearing with standard bearing cleaner, and then lubricate with light bearing oil.

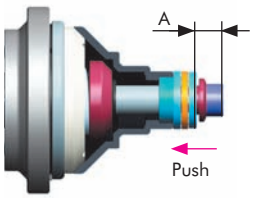


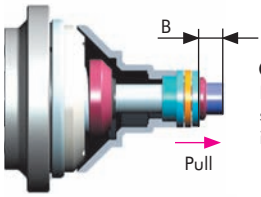
BEARING OIL

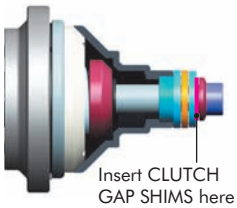
CLUTCH GAP SHIMS
These shim are used to adjust clutch gap.



To measure the clutch gap you can also use HUDY Flywheel Tool #182010







1) ADJUSTING THE CLUTCH GAP

❶ Install the clutchbell, outer ball-bearing (small), and thrustbearing 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.

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

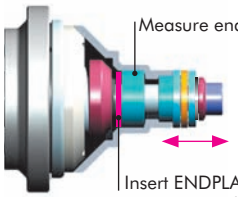
❸ The clutch gap is A - B;
the correct gap is 0.6-0.7mm

If the clutch gap is greater than this, you can easily calculate the thickness of shims required to set correct gap:
Thickness of shims required in mm = A-B-0.7

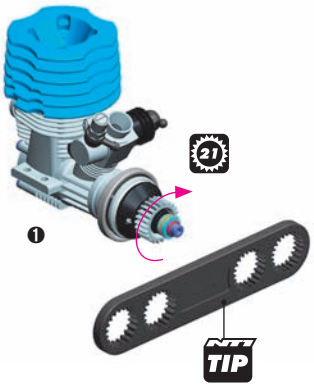
For example, using the values A=5.5mm, B=4.5mm
Shim thickness = 5.5-4.5-0.7=0.3mm

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

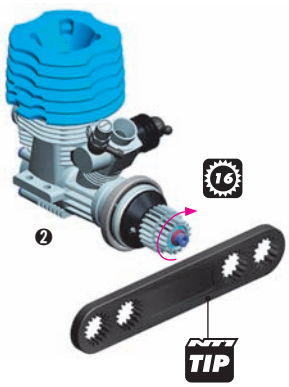
2) ADJUSTING THE ENDPLAY



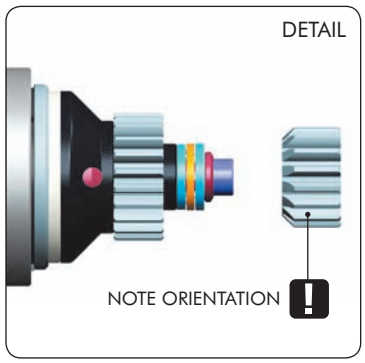
Apply shims on crankshaft to set endplay to 0.05-0.15mm

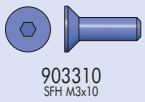


To tighten the **21T** pinion gear use the optional #182002 HUDY Pinion Tool.



To tighten the **16T** pinion gear use the optional #182001 HUDY Pinion Tool.





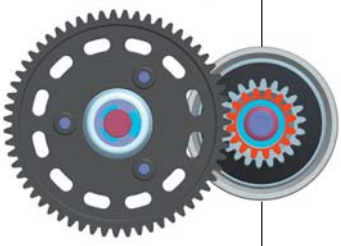
903310
SFH M3x10



908310
SCH M3x10

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.



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.

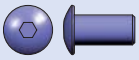
STEP 3: Attach engine to upper mounts.

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

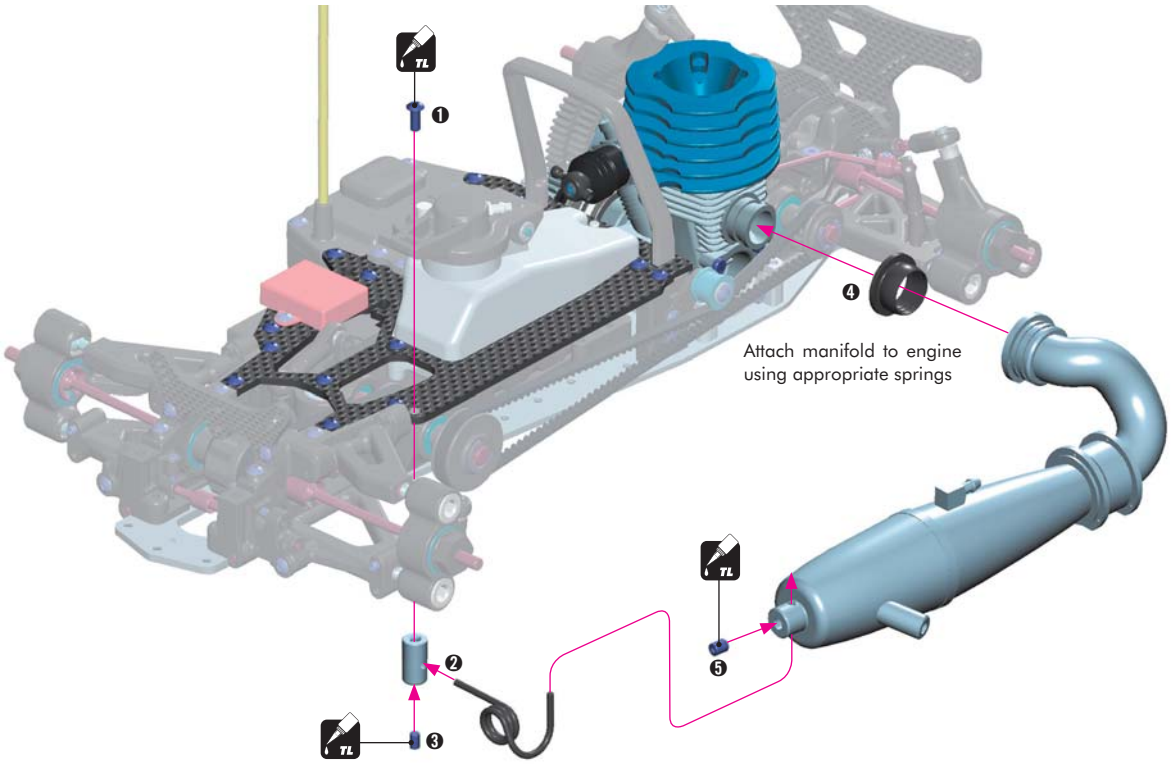
After the gear mesh is initially set, you can remove the engine AND upper mounts as one assembly by removing the screws holding the upper mounts to the lower mounts. When re-installing the engine, you will not have to re-adjust the gear mesh.



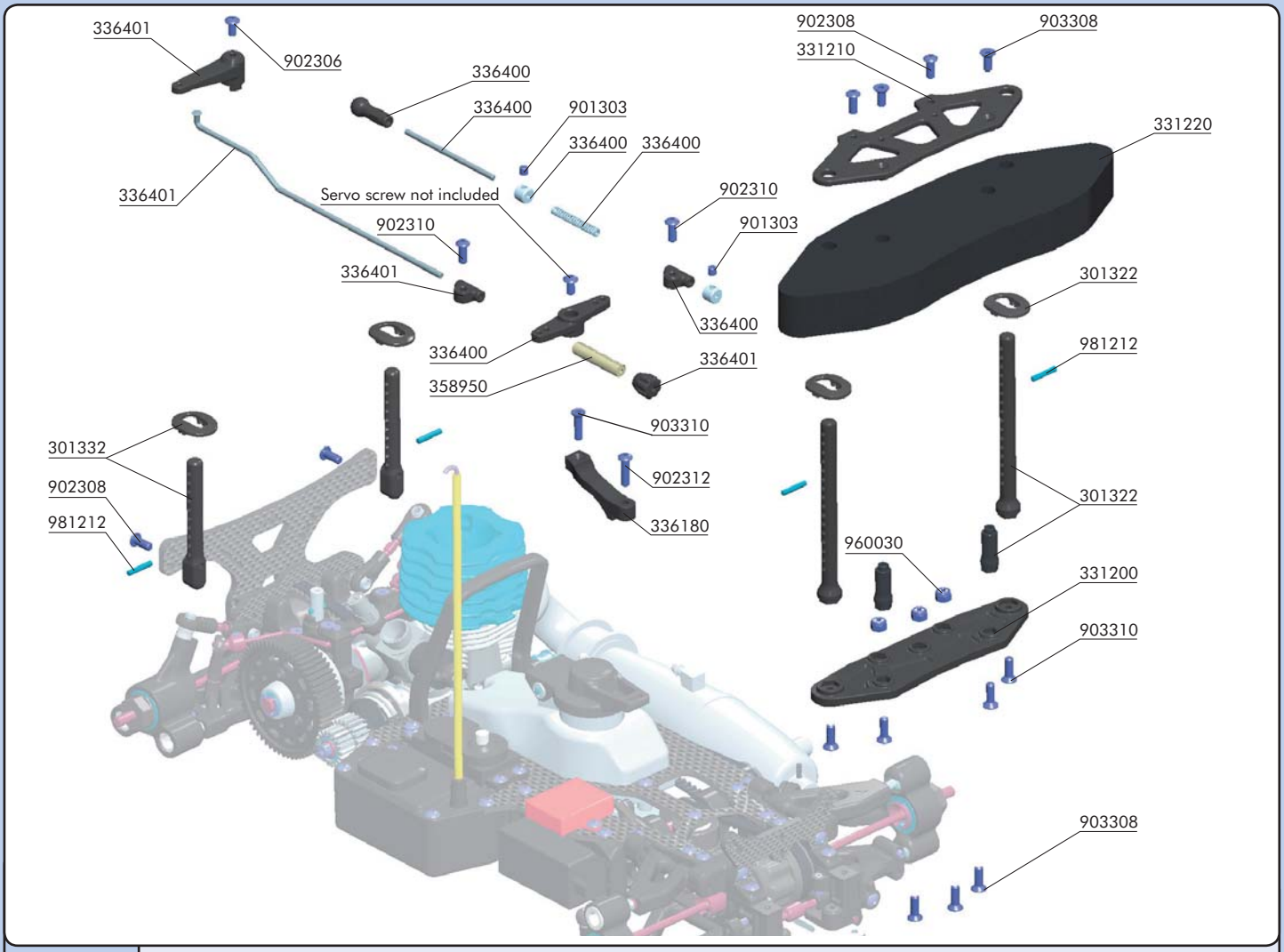
901406
SB M4x6



902408
SH M4x8



9. CARB LINKAGE & BODYMOUNTS



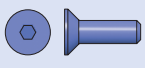
BAG

09

30 1322	FRONT BODY MOUNT SET 6MM	90 1303	HEX SCREW SB M3x3 (10)
30 1332	REAR BODY MOUNT SET 6MM	90 2306	HEX SCREW SH M3x6 (10)
		90 2308	HEX SCREW SH M3x8 (10)
33 1200	COMPOSITE BUMPER	90 2310	HEX SCREW SH M3x10 (10)
33 1210	COMPOSITE UPPER HOLDER FOR BUMPER	90 2312	HEX SCREW SH M3x12 (10)
33 1220	FOAM BUMPER	90 3308	HEX SCREW SFH M3x8 (10)
33 6180	COMPOSITE REAR STIFFENER	90 3310	HEX SCREW SFH M3x10 (10)
33 6400	THROTTLE SYSTEM SET	96 0030	NUT M3 (10)
33 6401	BRAKE SYSTEM SET	98 1212	PIN 2x12 (10)
35 8950	SILICONE TUBING 1M (2.4 x 5.5MM)		



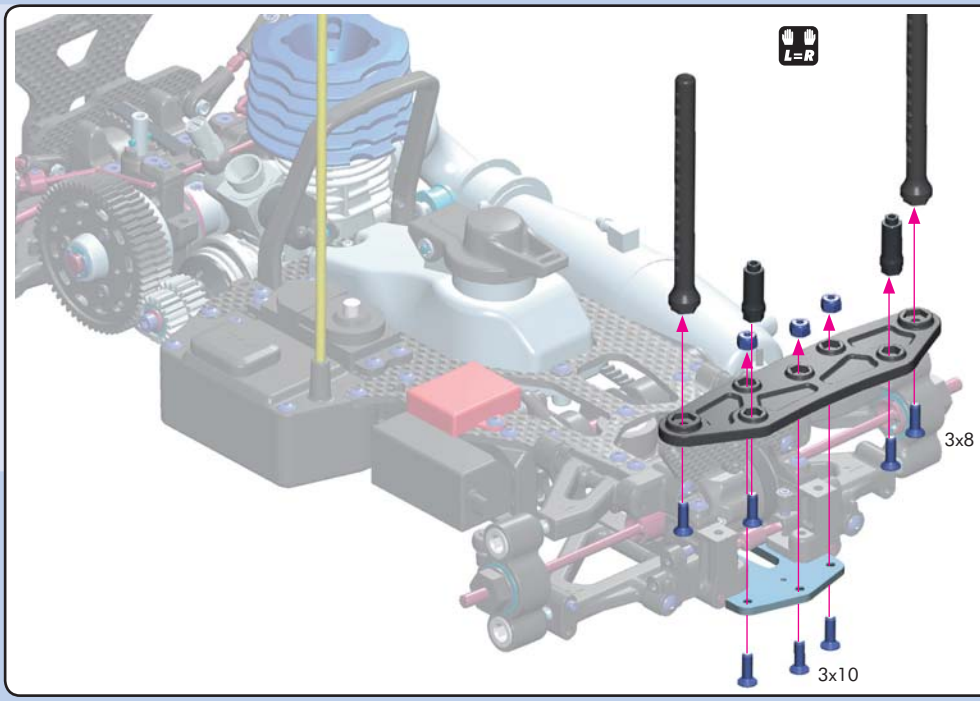
903308
SFH M3x8



903310
SFH M3x10

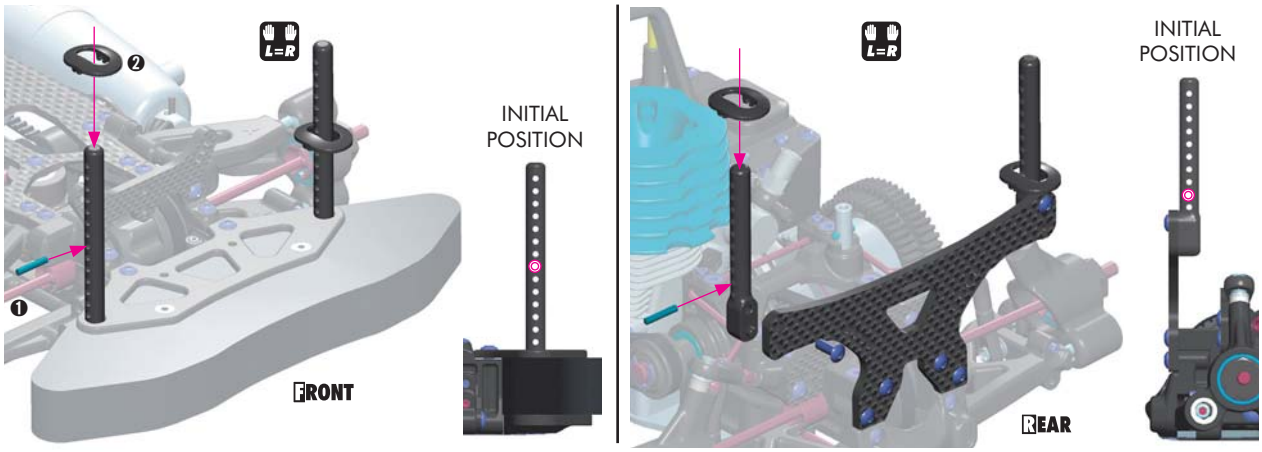


960030
N M3



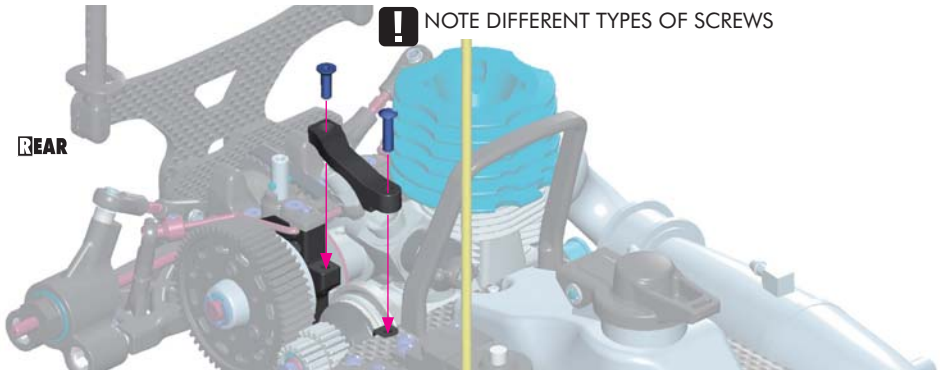
902308
SH M3x8

981212
P 2x12



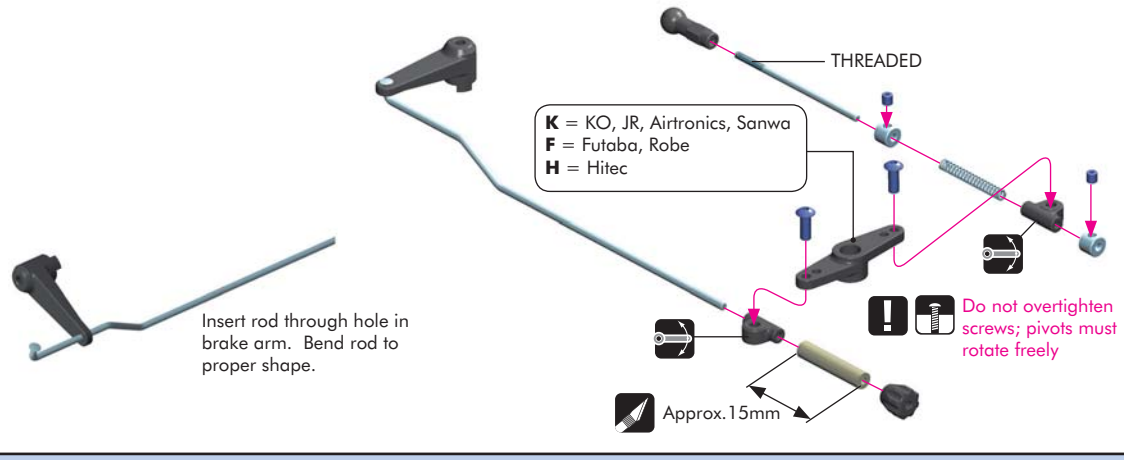
902312
SH M3x12

903310
SFH M3x10

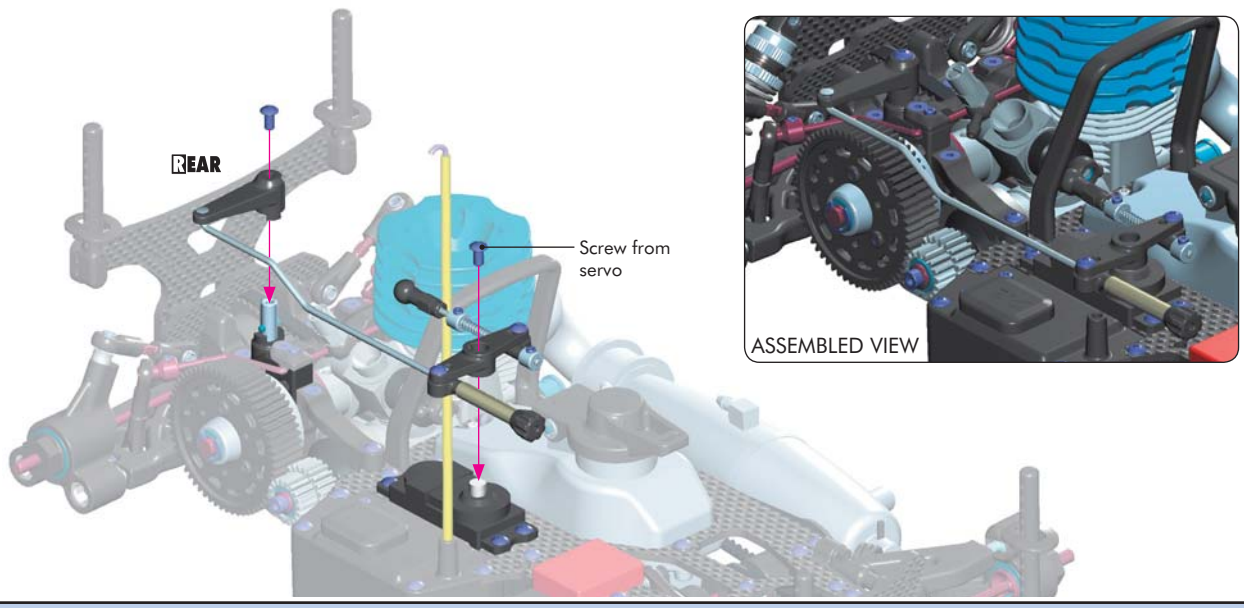


901303
SB M3x3

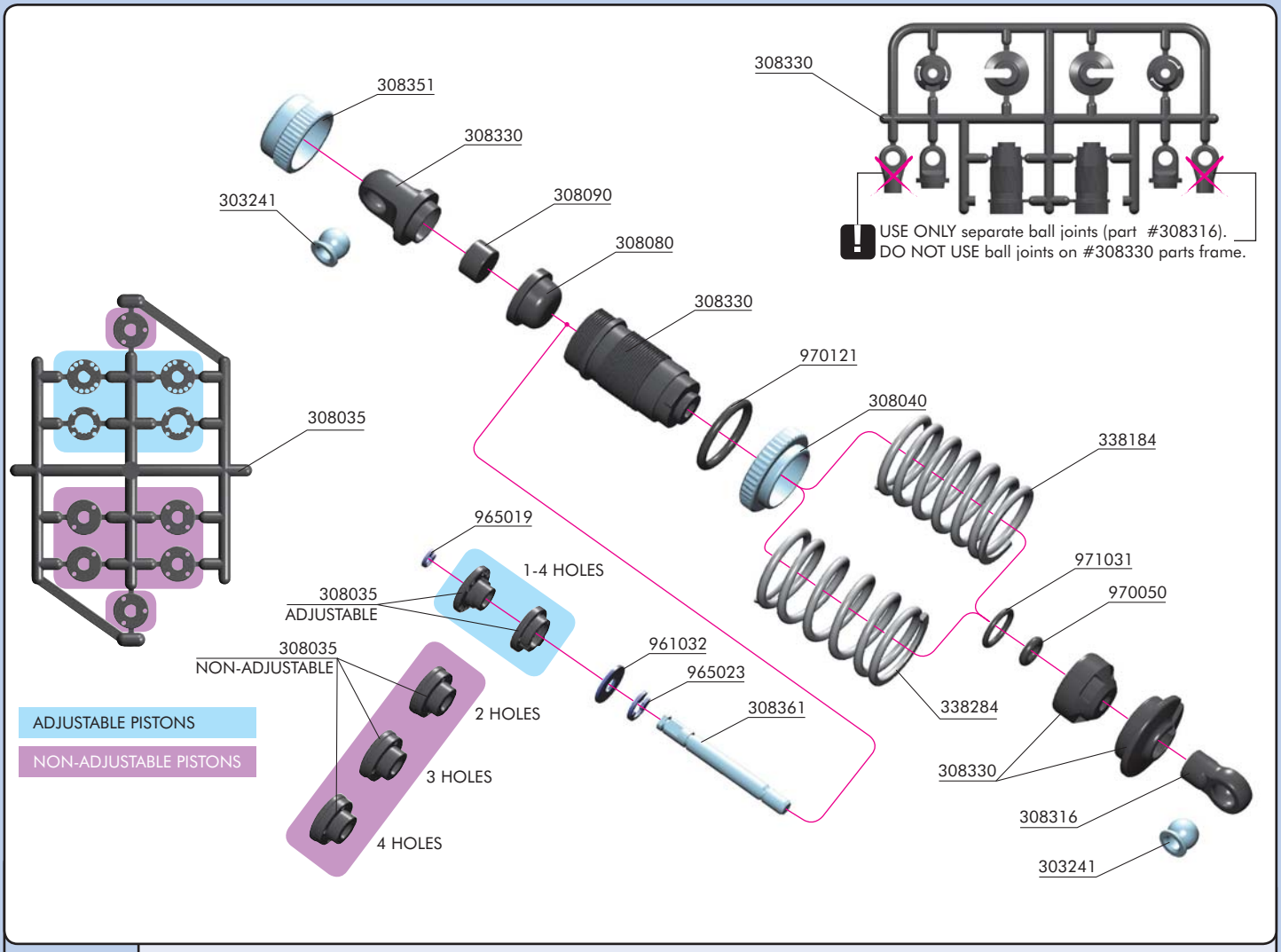
902310
SH M3x10



902306
SH M3x6



10. SHOCK ABSORBERS



BAG 10

30 3241	BALL UNIVERSAL 5.8 MM HEX (4)	33 8185	XRAY SPRING-SET D=1.6 (20 LB) LIGHT-BLUE (2) - FRONT
30 8035	COMPOSITE PISTONS ADJUSTABLE + NON-ADJUST. (SET 2+6)	33 8186	XRAY SPRING-SET D=1.7 (25 LB) DARK-BLUE (2) - FRONT
30 8040	SHOCK ADJ. NUT ALU + O-RING (4+4)	33 8187	XRAY SPRING-SET D=1.8 (30 LB) LIGHT-PURPLE (2) - FRONT
30 8080	SHOCK ABSORBER MEMBRANES (4)	33 8195	XRAY SPRING-SET D=1.6 (22.5 LB) BLUE - SOFT-MEDIUM (2) - FRONT
30 8090	SHOCK FOAM INSERTS (4)	33 8196	XRAY SPRING-SET D=1.7 (28 LB) VIOLET - MEDIUM (2) - FRONT
30 8301	XRAY SHOCK ABSORBER-SET 4-STEP (2)	33 8197	XRAY SPRING-SET D=1.8 (33 LB) PURPLE - MEDIUM-HARD (2) - FRONT
30 8316	T2 SHOCK BALL JOINT - OPEN (4)		
30 8330	T2 COMPOSITE FRAME SHOCK PARTS 4-STEP	96 1032	WASHER S 3.2 (10)
30 8351	T2 SHOCK CAP-NUT ALU (2)	96 5019	E-CLIP 1.9 (10)
30 8361	T2 HARDENED SHOCK SHAFT (2)	96 5023	E-CLIP 2.3 (10)
30 8380	ADDITIONAL XRAY ULTIMATE RACING SPRINGS (20) - REAR	97 0050	O-RING 5x1 (10)
30 8390	XRAY SELECTED ULTIMATE RACING SPRINGS (24) - REAR	97 0121	O-RING 12.1x1.6 (10)
		97 1031	SILICONE O-RING 3.1x1.6 (10)

ADJUSTABLE PISTONS

4x



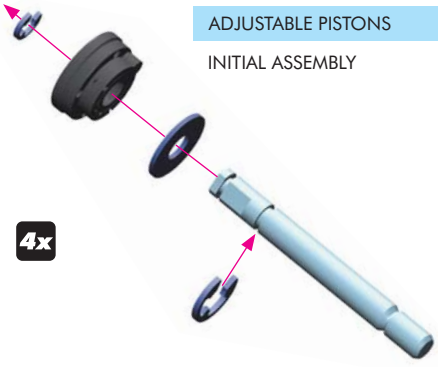
SHOCK OIL

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

961032
S 3.2

965019
C 1.9

965023
C 2.3



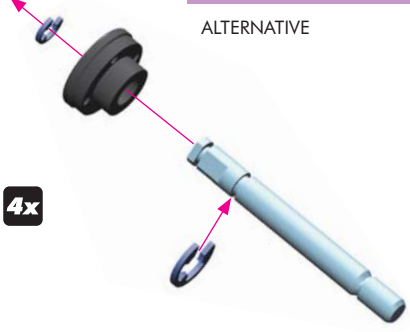
ADJUSTABLE PISTONS

INITIAL ASSEMBLY

4x

965019
C 1.9

965023
C 2.3



NON-ADJUSTABLE PISTONS

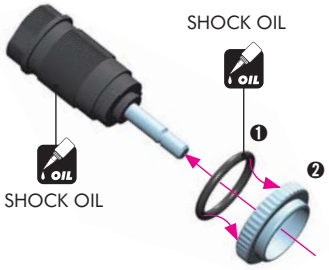
ALTERNATIVE

4x

970121
O 12.1x1.6

4x





CUTAWAY VIEW

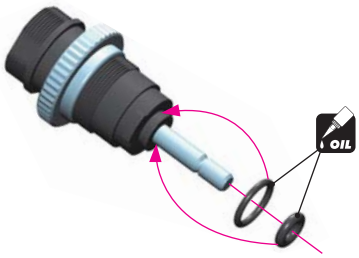


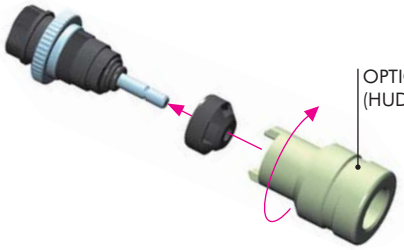
Be careful not to cross-thread the collar on the shock body.

970050
O 5x1

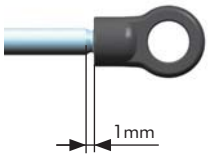
971031
O 3.1x1.6

4x





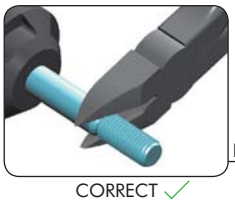
4x



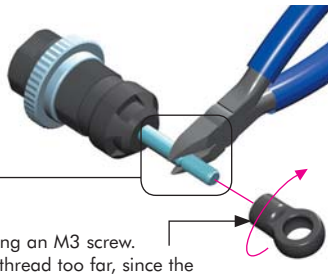
USE ONLY separate ball-joints (part #308316). DO NOT USE ball joints on nylon parts frame.



INCORRECT ✕



CORRECT ✓



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

4x



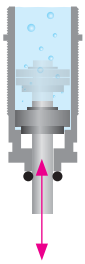
SHOCK FILLING

❶ Fully extend the piston rod so the piston is at the bottom of the shock body.

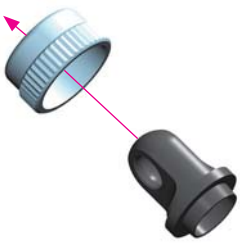
❷ Hold the shock upright and slightly overfill the shock body with shock oil.

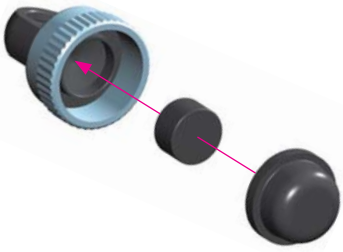
❸ Let the oil settle and allow air bubbles to rise to the top. Slowly move the piston up and down until no more air bubbles appear. Add shock oil as necessary.

❹ 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.



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.

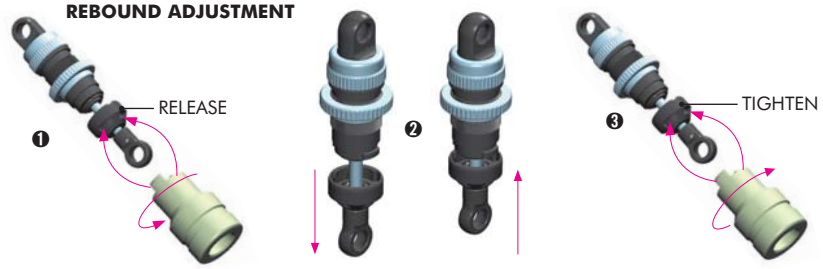
Fully tighten the cap and clean off any excess oil.

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

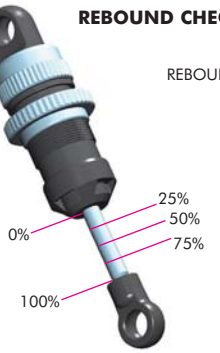
Follow the next procedure to adjust the rebound.

SHOCK ABSORBERS

REBOUND ADJUSTMENT



REBOUND CHECK



After the shock is assembled you have to set the Shock Rebound.

1. To set the Shock Rebound, release the shock composite lower cap.

2. VERY SLOWLY do the following: Fully pull out the shock rod, push it back in fully, and then fully pull it out once more. Repeat this procedure the following number of times to achieve the desired Shock Rebound setting:
10 times - approximately 75% rebound (high rebound - suggested for very low traction track)
15 times - approximately 50% rebound (medium rebound - suggested for standard track)
20 times - approximately 25% rebound (low rebound - suggested for very high traction track)

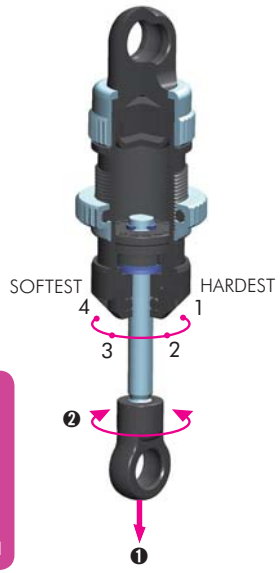
During the Rebound Adjustment procedure shock oil will leak out of the shock body through the O-ring on the shock rod... this is normal. During the Rebound Adjustment procedure DO NOT open the upper shock cap.

3. After you have set the Rebound Adjustment, re-install the shock lower composite cap.

4. Check the Shock Rebound setting by pushing the shock rod fully into the shock body, releasing it, and observing how far the shock rod extends by itself:
* 25% out of the shock body (low rebound)
* 50% out of the shock body (medium rebound)
* 75% out of the shock body (high rebound).
If the shock rod rebounds too much, return to Step 1 and repeat the procedure.

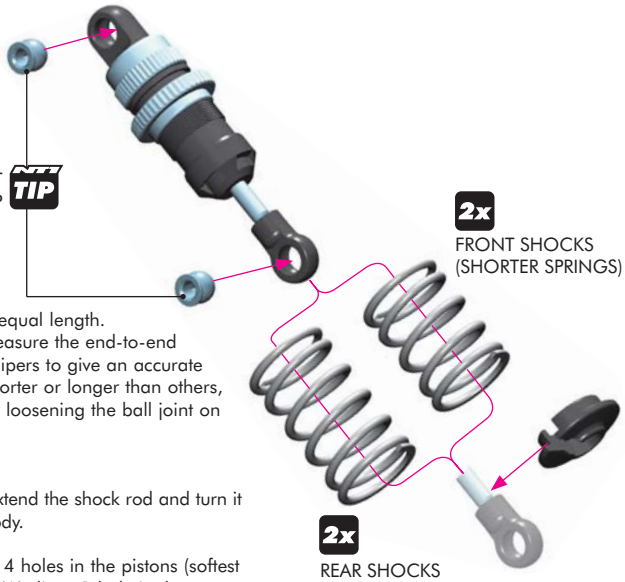
If the shock rod does not rebound enough, you will have to refill the shock with shock oil, and then repeat the bleeding and Shock Rebound procedure.

Cutaway view of assembled shock absorber



SET-UP BOOK
SHOCK DAMPING ADJUSTMENT
SPRING RATE SELECTION

CHECK NEXT TECH TIP



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.

Damping adjustment:
If you built the adjustable shocks, fully extend the shock rod and turn it slightly to lock the piston in the shock body.

Turning the shock rod fully CCW aligns 4 holes in the pistons (softest damping). Turning the shock rod fully CW aligns 1 hole in the pistons (hardest damping). The shocks have four settings, each of which can be felt by a slight "click".

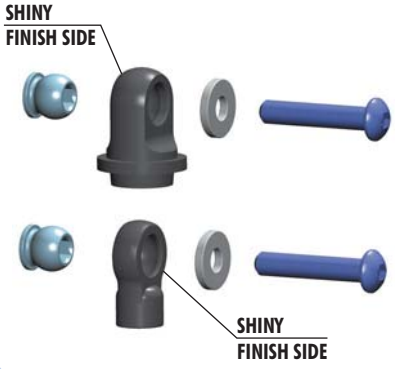
Set all four shocks initially to position 3 (3 holes open): turn fully CCW, then turn CW by 1 click.

TECH TIP

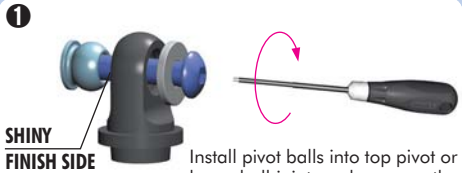
Follow this tech tip to properly install pivot balls into the top pivot and bottom ball joint.

Parts Needed:
• M3 x 16 SH screw
• M3 shim

Note that the composite parts have two sides, noticeable around the pivot ball hole: one side has a shiny finish, the other side has a regular finish.

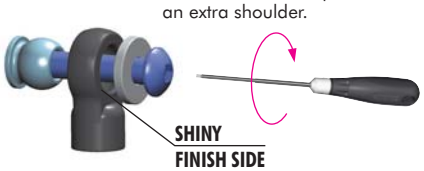


❶

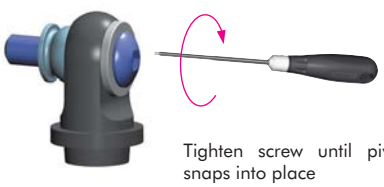


Install pivot balls into top pivot or lower ball joint as shown, on the proper sides.

Note that the lower pivot ball has an extra shoulder.

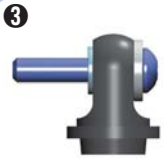


❷



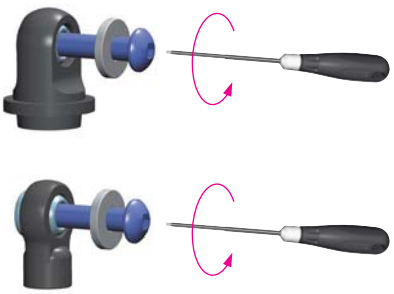
Tighten screw until pivot ball snaps into place

❸

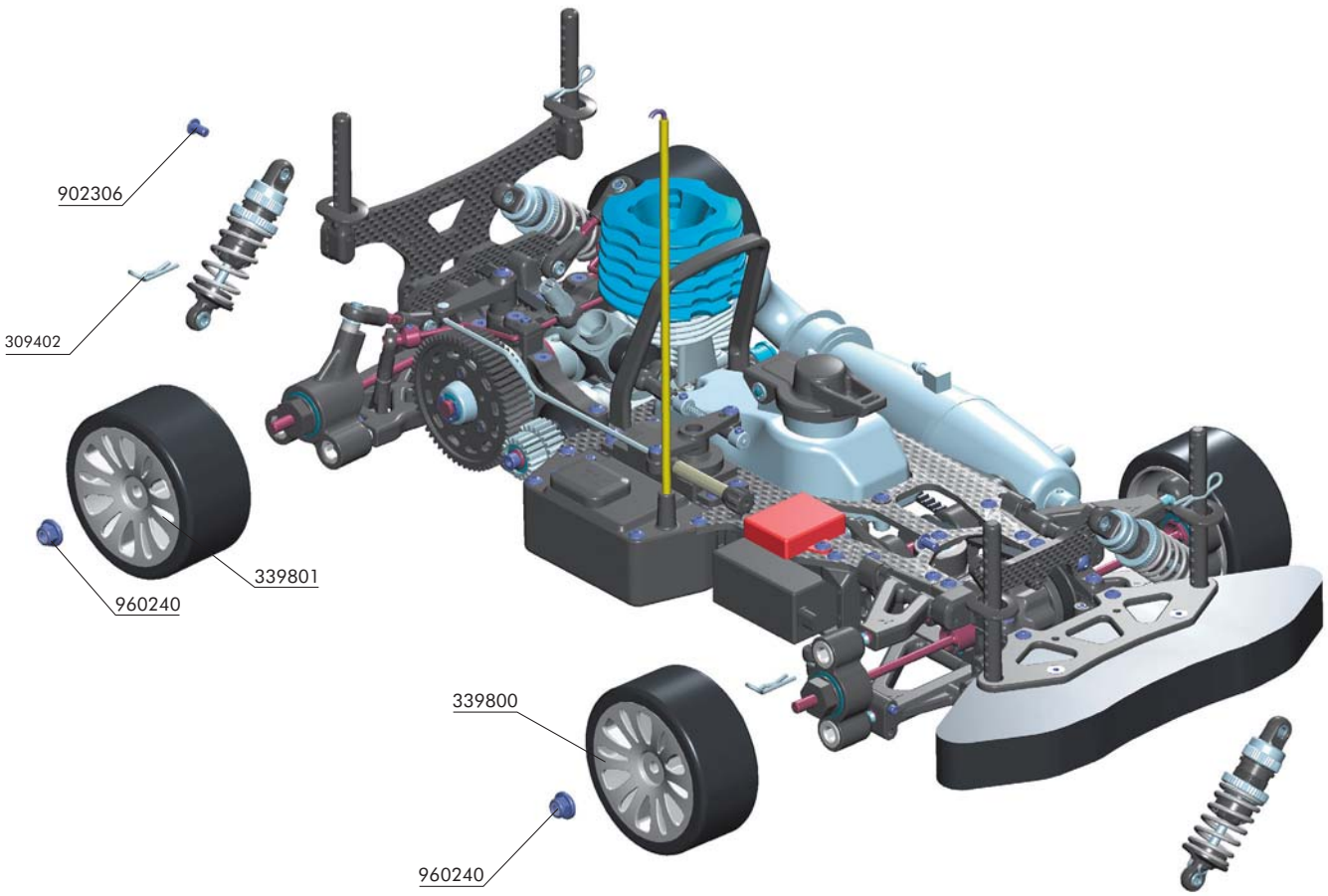


Ensure pivot balls move freely

❹



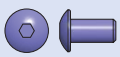
Remove screw and shim



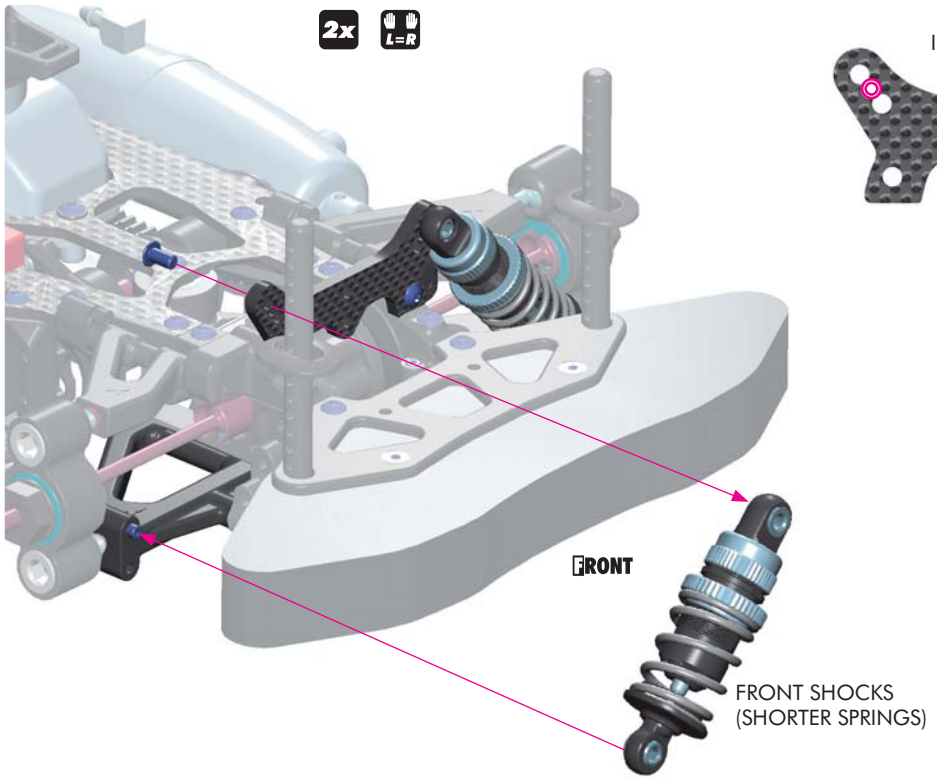
30 9402 BODY CLIP FOR 6MM BODY POST (4)

33 9800 FRONT WHEELS STARBURST - WHITE (2)
33 9801 REAR WHEELS STARBURST - WHITE (2)

90 2306 HEX SCREW SH M3x6 (10)
96 0240 NUT M4 WITH SERRATED FLANGE (10)



902306
SH M3x6



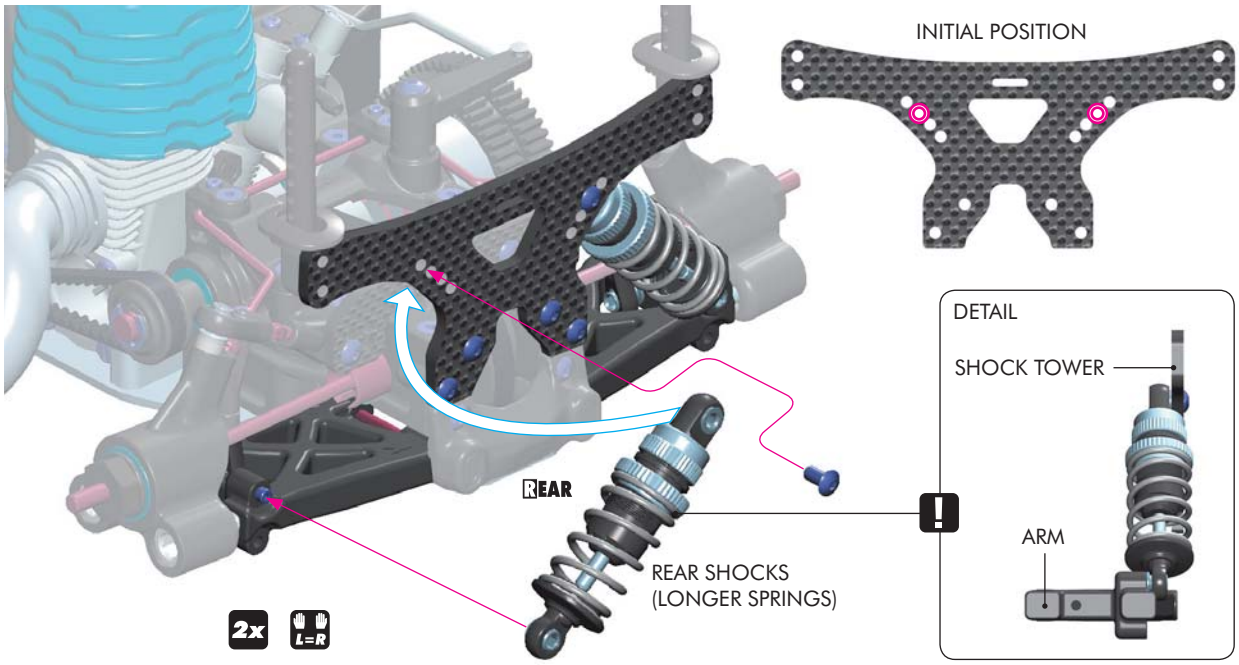


FRONT SHOCKS
(SHORTER SPRINGS)

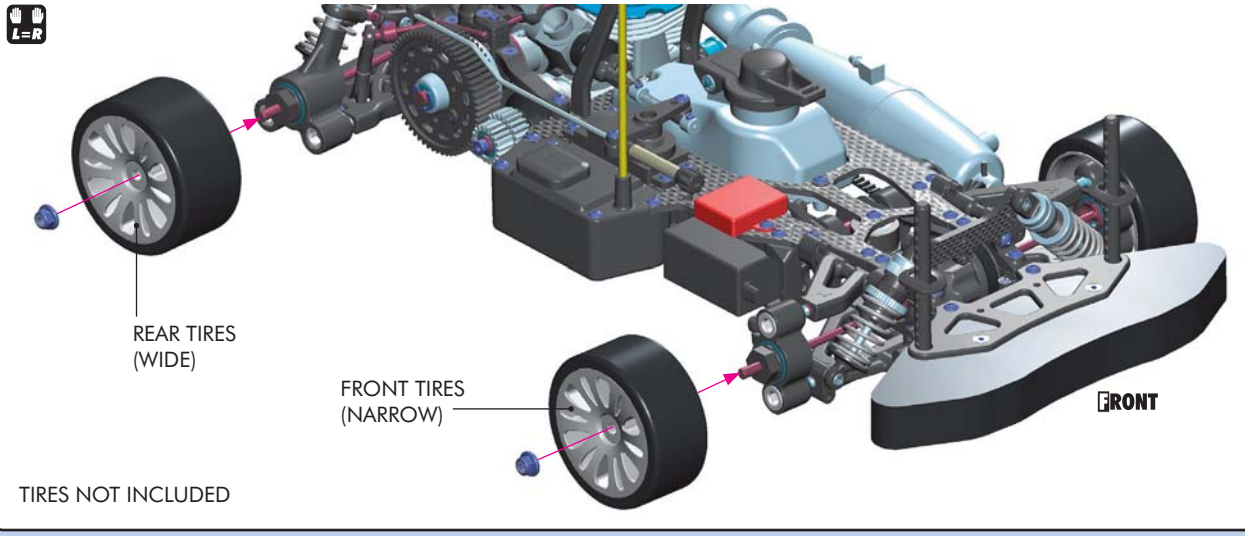
SET-UP BOOK
SHOCK POSITION ADJUSTMENT

902306
SH M3x6

SET-UP BOOK
SHOCK POSITION ADJUSTMENT

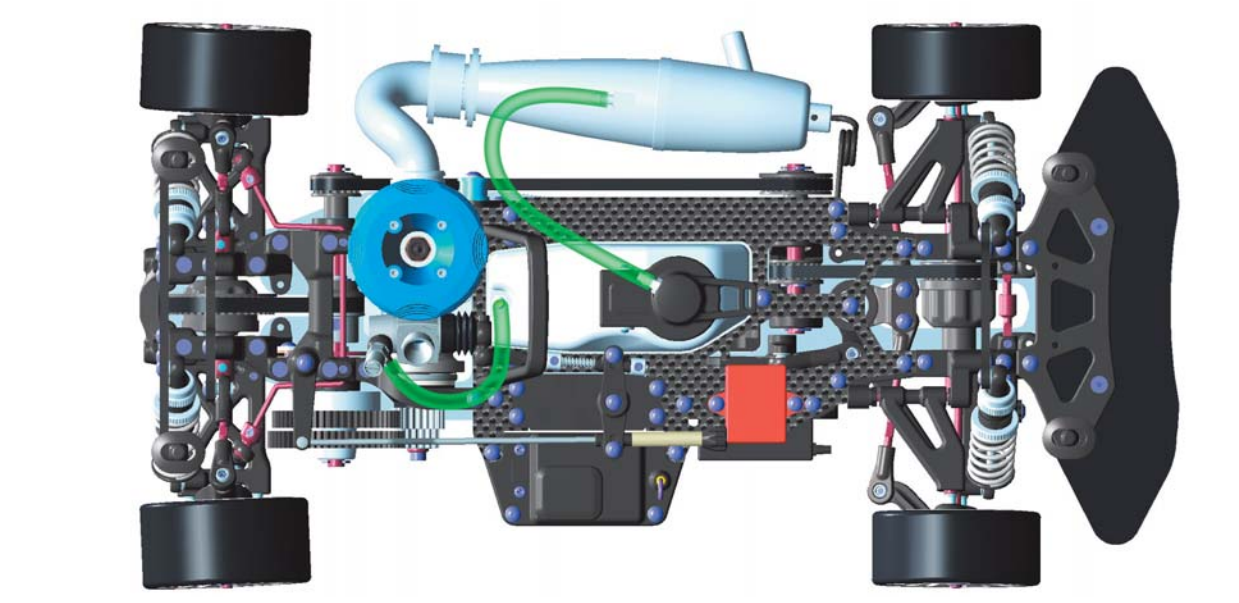


960240
N M4

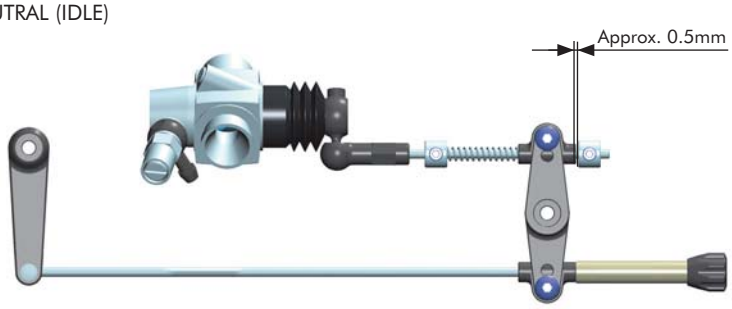


Cut 2 pieces of silicone tubing and install as follows:

- pressure line - between exhaust pipe and fuel tank cap
- fuel line - between fuel tank and carburetor



NEUTRAL (IDLE)

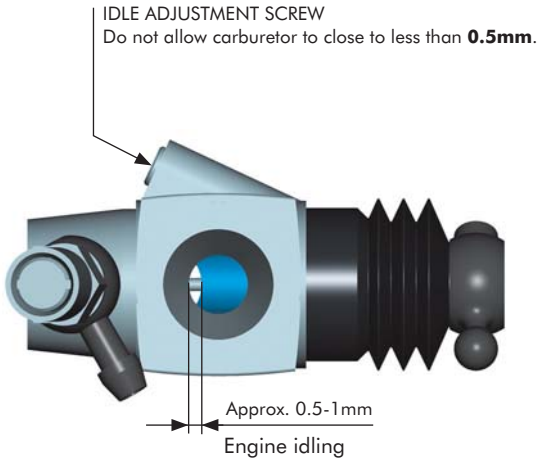


Turn on transmitter and receiver and set the throttle servo trim to the neutral position.

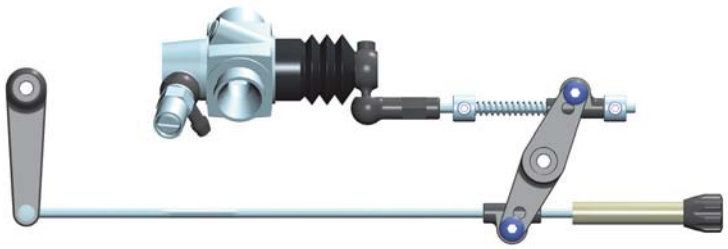
Adjust the idle adjustment screw on the carburetor to open approx. 0.5-1mm.

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



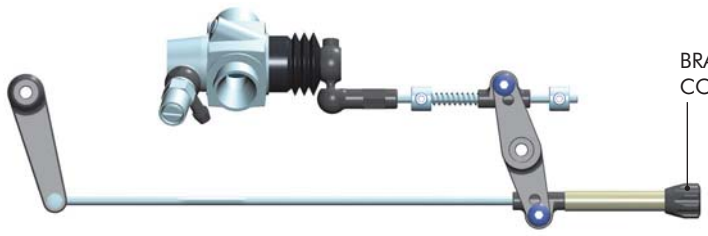
With the engine NOT RUNNING but the receiver turned ON, apply full throttle at the transmitter.

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.

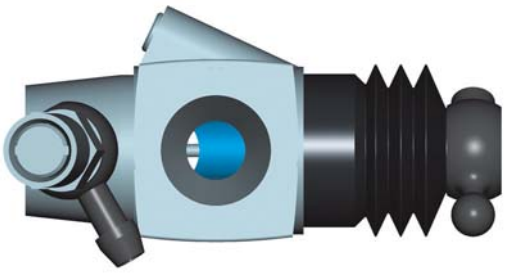


BRAKE

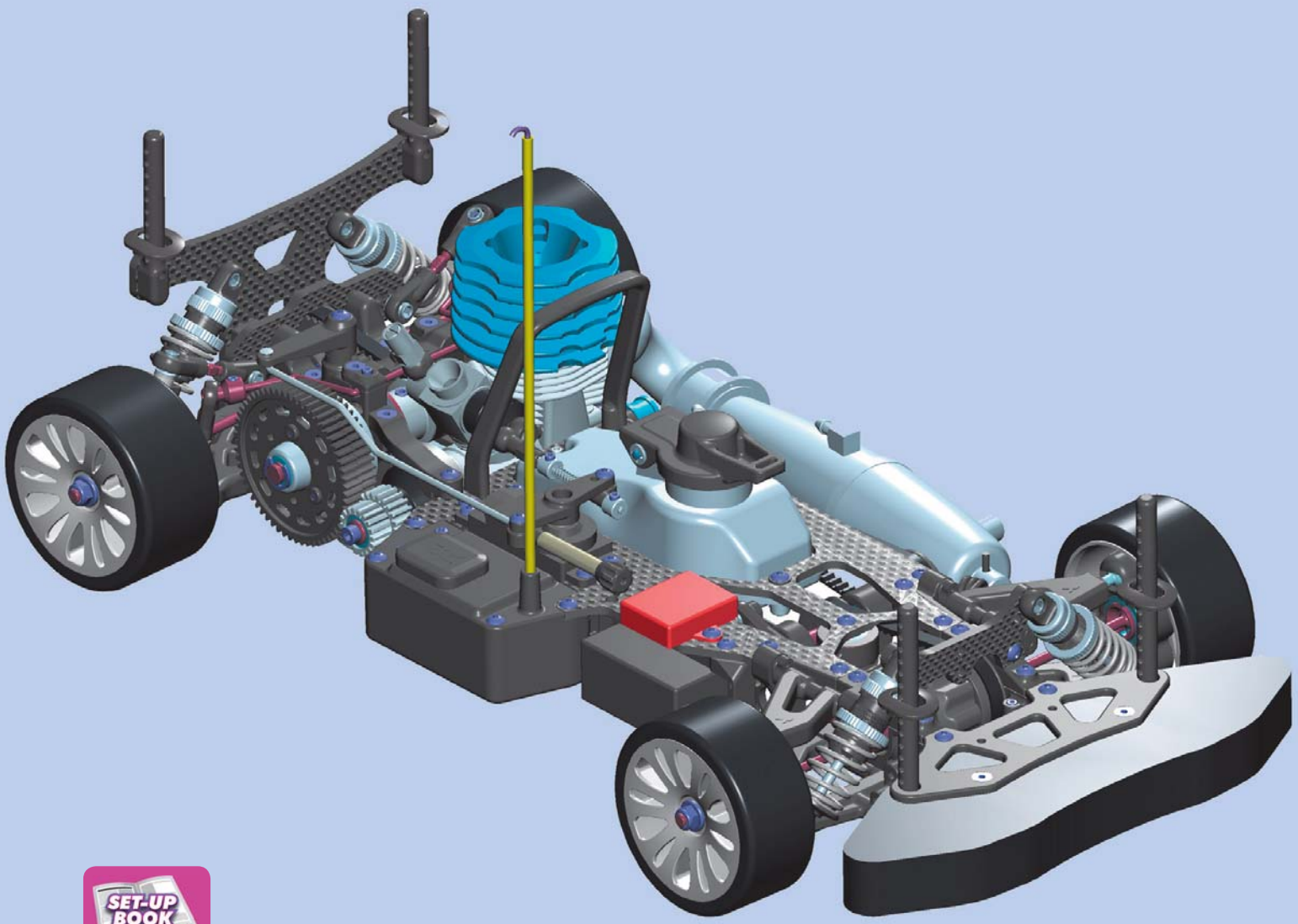


Adjust the composite collar on the brake linkage so the brakes work smoothly.

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.



FINAL ASSEMBLY VIEW



PLEASE REFER TO THE NT1 SET-UP BOOK FOR INFORMATION ABOUT PROPER SETUP OF YOUR NT1

XRAY NT1

1/10 LUXURY NITRO TOURING