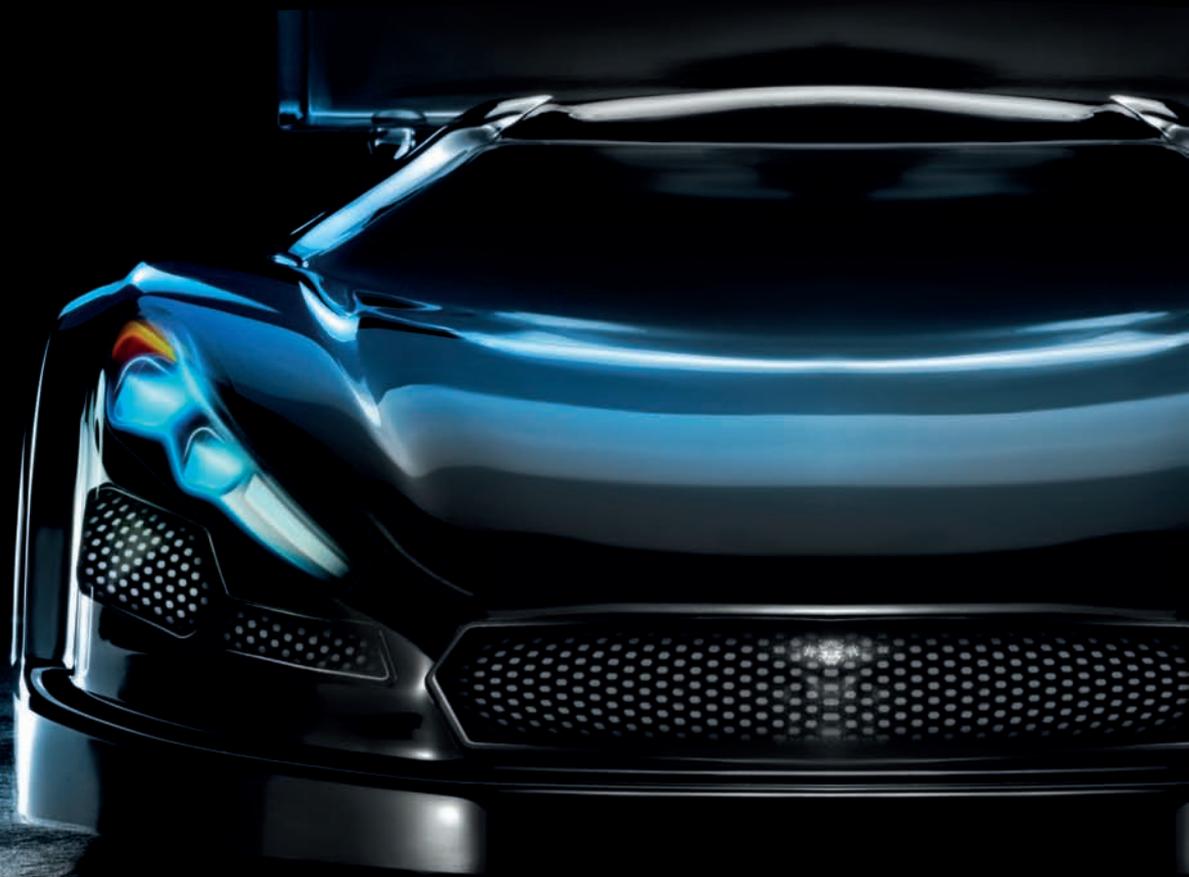


1/8 LUXURY GT

XRAY GTX8



INSTRUCTION MANUAL
FOR GTX8.2 & GTXE.2

BEFORE YOU START

The GTX is a high-competition, high-quality, 1/8-scale GT 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 GTX, YOU MUST read through all of the operating instructions and instruction manual and fully understand them to get the maximum enjoyment and prevent unnecessary damage.

CUSTOMER SUPPORT

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

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

Read carefully and fully understand the instructions before beginning assembly.

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

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

XRAY Europe

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Slovakia, EUROPE
Phone: +421-32-7401100
Fax: +421-32-7401109
Email: info@teamxray.com

XRAY USA

RC America, 2030 Century Center Blvd #15 Irving,
TX 75062
USA
Phone: (800) 519-7221 * (214) 744-2400
Fax: (214) 744-2401
Email: xray@rcamerica.com

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

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 warranty immediately.

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



IMPORTANT NOTES – GENERAL

- This product is not suitable for children under 16 years of age without the direct supervision of a responsible and knowledgeable adult.
- Carefully read all manufacturers warnings and cautions for any parts used in the construction and use of your model.
- Assemble this kit only in places away from the reach of very small children.
- First-time builders and users should seek advice from people who have building experience in order to assemble the model correctly and to allow the model to reach its performance potential.
- Exercise care when using tools and sharp instruments.
- Take care when building, as some parts may have sharp edges.
- Keep small parts out of reach of small children. Children must not be allowed to put any parts in their mouth, or pull vinyl bag over their head.
- Read and follow instructions supplied with paints and/or cement, if used (not included in kit).
- Immediately after using your model, do NOT touch equipment on the model such as the motor and speed controller, because they generate high temperatures. You may seriously burn yourself seriously touching them.
- Follow the operating instructions for the radio equipment at all times.
- Do not put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury as your finger, hair, clothes, etc. may get caught.
- Be sure that your operating frequency is clear before turning on or running your model, and never share the same frequency with somebody else at the same time. Ensure that others are aware of the operating frequency you are using and when you are using it.
- Use a transmitter designed for ground use with RC cars. Make sure that no one else is using the same frequency as yours in your operating area. Using the same frequency at the same time, whether it is driving, flying or sailing, can cause loss of control of the RC model, resulting in a serious accident.
- Always turn on your transmitter before you turn on the receiver in the car. Always turn off the receiver before turning your transmitter off.
- Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- Disconnect the battery pack before storing your model.
- When learning to operate your model, go to an area that has no obstacles that can damage your model if your model suffers a collision.
- Remove any sand, mud, dirt, grass or water before putting your model away.
- If the model behaves strangely, immediately stop the model, check and clear the problem.
- To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
 - The model car is not intended for use on public places and roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- Because the model car is controlled by radio, it is subject to radio interference from many sources that are beyond your control. Since radio interference can cause momentary loss of control, always allow a safety margin in all directions around the model in order to prevent collisions.
- Do not use your model:
 - Near real cars, animals, or people that are unaware that an RC car is being driven.
 - In places where children and people gather
 - In residential districts and parks
 - In limited indoor spaces
 - In wet conditions
 - In the street
 - In areas where loud noises can disturb others, such as hospitals and residential areas.
 - At night or anytime your line of sight to the model may be obstructed or impaired in any way.

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



IMPORTANT NOTES – 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

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,

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.

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 additions that may arise from the use of this product.

All rights reserved.

QUALITY CERTIFICATE

XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newly-purchased kit are manufactured with the highest regard to quality. However, due to the many factors inherent in model racecar competition, we cannot guarantee any parts once you start racing the car. Products which have been worn out, abused, neglected or improperly operated will not be covered under warranty. We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

Please note that raw materials such as aluminum, steel, brass, fibreglass, or carbon fibre may have small scratches on the surface which is a standard characteristic of any raw material. Scratches on the surface of any materials are NOT considered to be material defects.

Products may potentially have small amounts of corrosion on them. This may be caused by variances in weather during different times of the year, humidity in the shop or during shipping, and other contributing factors. Even though we have taken all precautions and protection methods to prevent corrosion, these small amounts of corrosion (if present) are unavoidable and considered to be acceptable.

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 	Assemble front and rear the same way 	Pay attention here 	Assemble as many times as specified (here twice) 	Apply instant glue 	Apply oil 	Apply grease 	Apply threadlock
Cut off shaded portion 	Use special tool 	Cut off remaining material 	Time 	Use cleaner or WD-40® 	Tighten screw gently 	Ensure smooth non-binding movement 	Use pliers 	Follow tip here 	Follow Set-up Book

TOOLS REQUIRED

Phillips 5.0mm (HUDY TOOLS) Allen 1.5/2.0/2.5/3.0mm (HUDY TOOLS) Ball Allen 2.5mm (HUDY TOOLS) Arm Reamer 3mm/4mm (HUDY TOOLS) Socket 5.0/5.5mm (HUDY TOOLS)	Pinion Tool Set (XRAY #349901) 	17mm Wheel Nut Tool (HUDY #107570) 	Flywheel Tool (HUDY #182015) 	Special Tool for all turnbuckles, nuts (HUDY #181090) Turnbuckle Wrench (HUDY #181040 4mm) (HUDY #181050 5mm)	Cross Wrench (HUDY #107581)
Side Cutters (HUDY #189010) 	Pocket Hobby Knife (HUDY #188981) 	Needle Nose Pliers (HUDY #189020) 	Professional Multi Tool (HUDY #183011) 	Scissors (HUDY #188990) 	Body Reamer (HUDY #107600) or (HUDY #107601)

TOOLS & EQUIPMENT INCLUDED

Silicone Shock Oil (HUDY #106411 1K 100ml) 	Silicone Diff Oil (HUDY #106561 60K 100ml) (HUDY #106631 300K 100ml) 	Air Filter Oil (HUDY #106240) 	Graphite Grease (HUDY #106210)
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NOT INCLUDED

SET-UP BOOK 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 current updated version.

EQUIPMENT REQUIRED ■ Electric ■ Nitro

Transmitter 	Engine 	Electric Motor & Pinion Gear 	Manifold & Exhaust 	Starter Box & Battery Pack (HUDY #104500) 	Glow Plug Igniter
Steering and Throttle Servos 	Receiver 	Speed Controller 	LiPo Battery Pack 	Double-sided Tape (HUDY #107875) 	Lexan™ Paint
Battery Charger 	Receiver Pack 	Threadlock & CA Glue 	GT BODY (XRAY #359730 or #359731) 	Wheels & Tires 	Fuel + Fuel Bottle (HUDY #104200)

TIP FRONT & REAR DIFF GEAR MESH ADJUSTMENT

If there is too much or too little diff side play, this may create non-optimal gear mesh between the diff gear and the pinion drive gear. This is easily resolved by inserting 1 or 2 of the included thin shims behind a diff outdrive ball-bearing, depending on how much play there is.

THE LOCATION OF THE SHIM(S) DEPENDS ON WHETHER YOU ARE TRYING TO CLOSE OR OPEN THE GAP:

TO CLOSE A WIDE GAP

CLOSE A WIDE GAP

insert shim(s) here

To CLOSE a wide gap: add 1 or 2 shims against diff spur gear

WASHER #962131 S 13 x 16 x 0.1 mm (10)
#962130 S 13 x 16 x 0.2 mm (10)

TO OPEN A NARROW GAP

OPEN A NARROW GAP

insert shim(s) here

To OPEN a narrow gap: add 1 or 2 shims on the other side of the diff, away from spur gear

WASHER #962131 S 13x16x0.1mm (10)
#962130 S 13x16x0.2mm (10)

SUSPENSION & DRIVETRAIN MAINTENANCE

- Check suspension for free movement during building and operation, and especially after running and if you have crashed the car. If the suspension does not move freely, use the appropriate HUDY Arm Reamer to clean and resize the holes of the suspension arms.
- Regularly check the drive shaft pins (both side and center) and if they show any wear must be immediately replaced by new pins. If the car is run with worn pins, excessive wear on the diff outdrives will result. The 106000 HUDY Drive Pin Replacement Tool (for 3mm Pins) is a compact, rugged multi-use tool set for replacing 3mm drive pins in drive shafts. Use the HUDY replacement drive shaft pins 3x14 (#106050).
- Regularly inspect and replace the connecting pins which connect the center drive shafts with the pinion gear, and also the pins that connect the wheel drive shafts with wheel axles. Use HUDY Graphite Grease to lubricate the drive shaft connecting joints and the diff gears.
- Pivot balls and ball-joints will naturally wear for some time and will generate play. If there is too much play the pivot balls and ball joints need to be replaced.
- If the car is run in wet conditions, apply WD-40® on all drivetrain parts before the run. After the run, clean and dry the parts again.

HUDY SPRING STEEL™

The HUDY Spring Steel™ used in the car is the strongest and most durable steel material on the RC market. While items made from HUDY Spring Steel™ are still subject to wear, the lifespan is considerably longer than any other material. As parts made from HUDY Spring Steel™ wear, the brown color will after some time "go down" but it will not affect the strength of the material. The brown color is only a surface treatment and if the brown color will wear the durability of the part will be still strong.

TIP DRIVE SHAFT PIN SERVICING

To enjoy the longest possible lifespan of the drive shafts and diff outdrives, it is extremely important to properly service the drive shaft pins. Inspect the pins after every 3 hours of runtime. If the pins show any wear, replace them with new pins.



1 Do not use drive shafts when the pins are worn.

2 Press out the worn pins.

3 Press in new pins and regularly inspect for wear.



For easy drive pin replacements use #106000 HUDY Drive Pin Replacement Tool.



To replace the worn pins use only premium HUDY drive pins #106050.

MANUAL STEPS ONLY FOR GTX8

1. BALL DIFFERENTIAL GTX

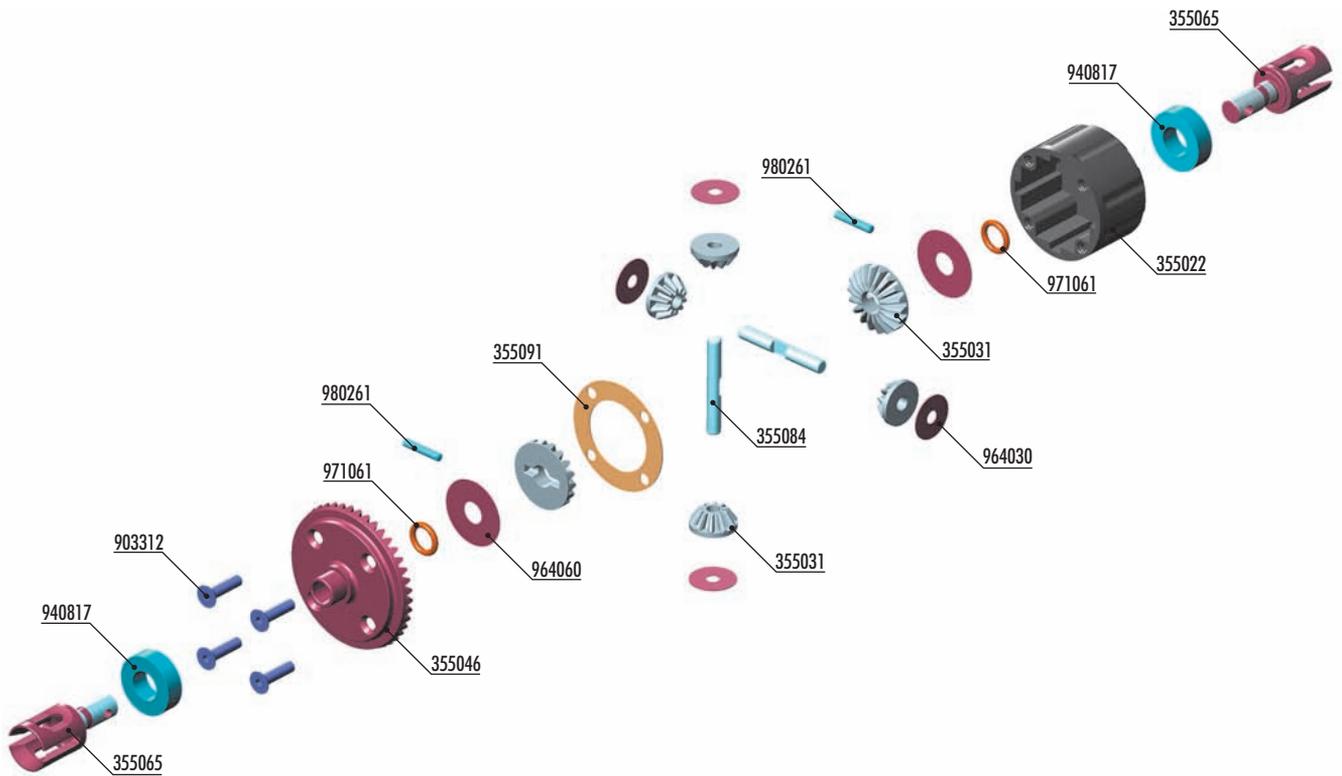
MANUAL STEPS ONLY FOR GTXE

1. GEAR DIFFERENTIAL GTXE

MANUAL DUAL STEPS FOR GTXE & GTX8

3. REAR DRIVETRAIN GTXE GTX

2x



BAG
01

- 355005 DIFFERENTIAL 46T - V2 - SET
- 355022 DIFFERENTIAL CASE - V2
- 355031 STEEL DIFF BEVEL & SATELLITE GEARS - V2 (2+4)
- 355046 FRONT/REAR DIFF LARGE BEVEL GEAR 46T - HUDY STEEL
- 355065 DIFF OUTDRIVE ADAPTER - V2 - HUDY SPRING STEEL™ (2)
- 355084 F/R DIFF PIN (2)
- 355091 F/R DIFF GASKET (4)

- 903312 HEX SCREW SFH M3x12 (10)
- 940817 BALL-BEARING 8x16x5 RUBBER SEALED - OIL (2)
- 964030 WASHER S 3.5x12x0.2 (10)
- 964060 WASHER S 6x18x0.2 (10)
- 971061 SILICONE O-RING 6x1.55 (10)
- 980261 PIN 2.5x11.5 (10)



940817
BB 8x16x5



964060
S 6x18x0.2



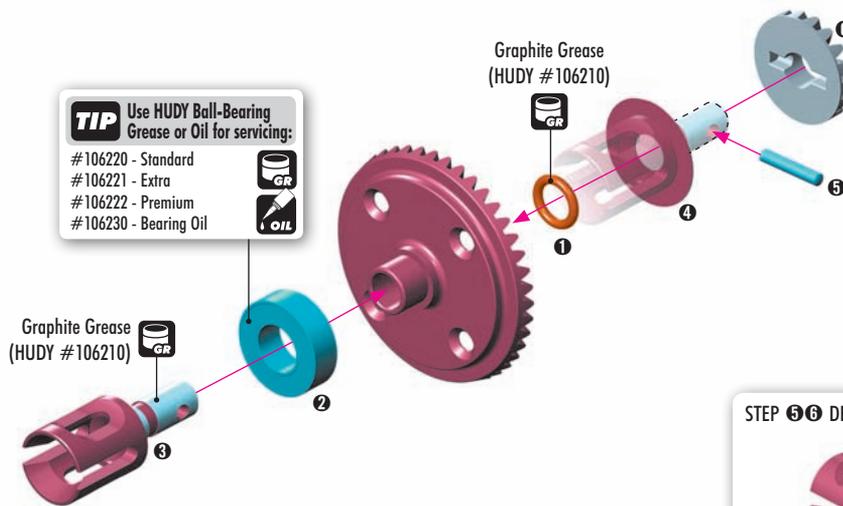
971061
O 6x1.55



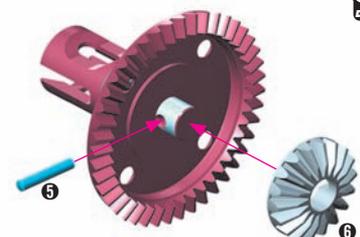
980212
P 2x11.6

SET-UP BOOK
DIFFERENTIAL GEARS

2x F=R



STEP 5-6 DETAIL





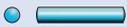
940817
BB 8x16x5



964060
S 6x18x0.2

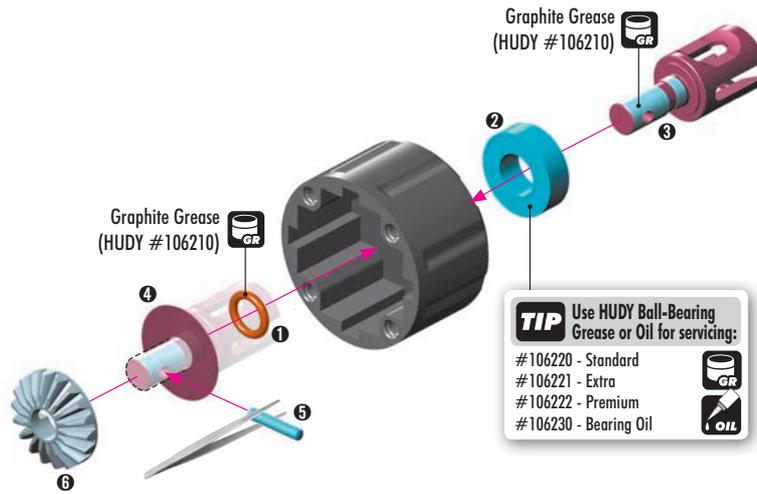


971061
O 6x1.55



980212
P 2x11.6

2x F=R



Graphite Grease (HUDY #106210)

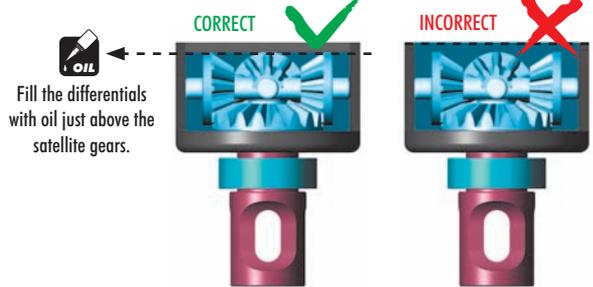
Graphite Grease (HUDY #106210)

TIP Use HUDY Ball-Bearing Grease or Oil for servicing:
#106220 - Standard
#106221 - Extra
#106222 - Premium
#106230 - Bearing Oil



VERY IMPORTANT!

Use the following silicone oils included in the kit for initial settings:
FRONT diff: 300.000cSt / REAR diff: 60.000cSt



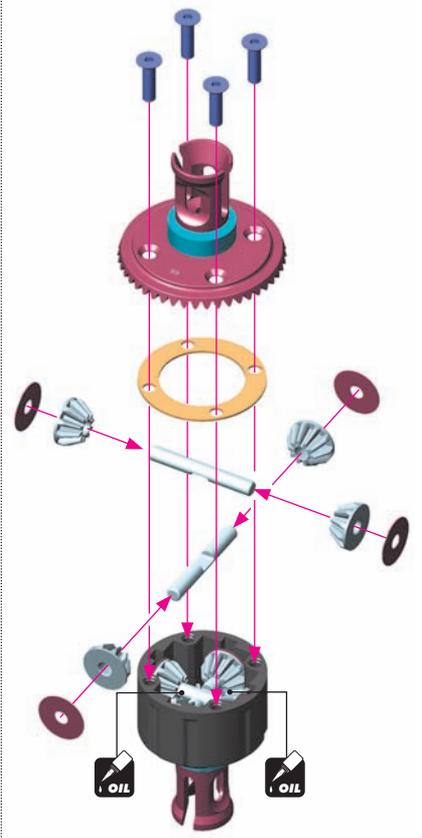
IMPORTANT!
Do not overfill the differential. If there is too much oil in the differential, it may leak after it cools down after use.

To ensure you have the same amount of oil from rebuild to rebuild, do the following:



- Put the diff (without oil) on the scale and check the weight:
- FRONT DIFF approx. 39.94g
- REAR DIFF approx. 39.94g
- Slowly pour oil into the diff and watch the weight. The approximate weight of the diff+oil is REAR DIFF approx. 42.30g and FRONT DIFF approx. 42.52g

REAR DIFF	39.94g + 2.36g	= 42.30g
FRONT DIFF	39.94g + 2.58g	= 42.52g



Front diff:
Silicone oil 300.000cSt
Fill just above the satellite gears.

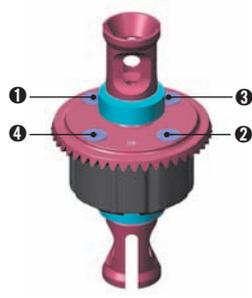
Rear diff:
Silicone oil 60.000cSt
Fill just above the satellite gears.

SET-UP BOOK
DIFFERENTIAL OIL

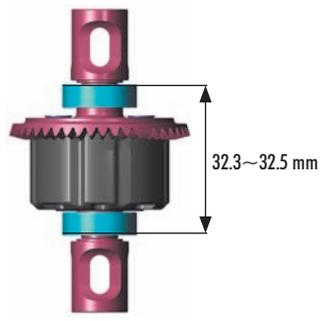
Tighten the screws equally

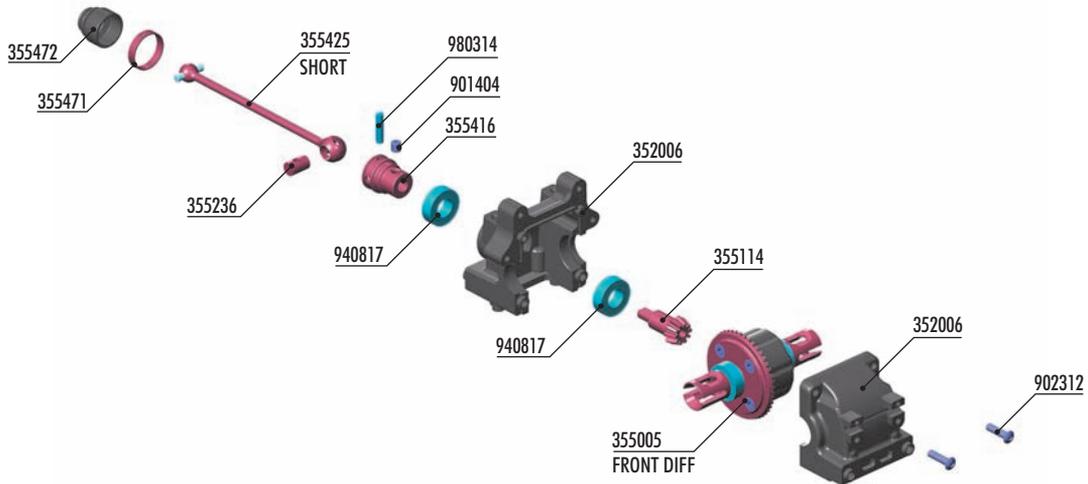


Finish tightening in this order



After assembly the differentials should have a length of 32.3~32.5 mm measured from the ends of the installed ball-bearings. If differentials are longer, retighten the 4 screws holding the crown gears.

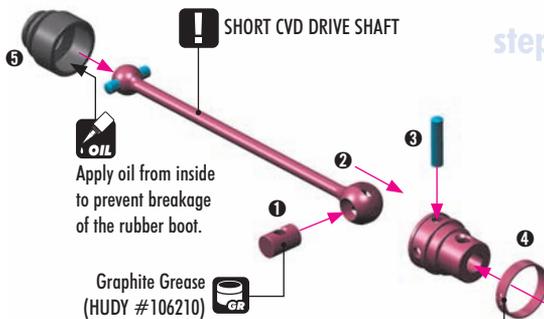




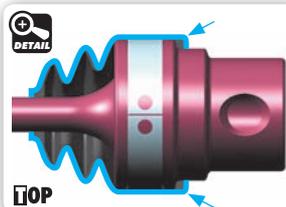
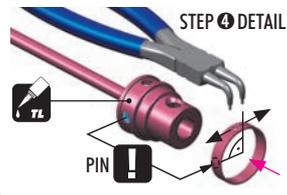
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02

352006	DIFF BULKHEAD BLOCK SET FRONT/REAR	355472	DRIVE SHAFT BOOT (2)
355005	DIFFERENTIAL 46T - V2 - SET	901404	HEX SCREW SB M4x4 (10)
355114	BEVEL DRIVE GEAR 14T	902312	HEX SCREW SH M3x12 (10)
355236	CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL™	940817	BALL-BEARING 8x16x5 RUBBER SEALED - OIL (2)
355416	CENTRAL CVD SHAFT UNIVERSAL JOINT - HUDY SPRING STEEL™	980314	PIN 3x14 (10)
355425	FRONT CENTRAL CVD DRIVE SHAFT - HUDY SPRING STEEL™		
355471	DRIVE SHAFT LOCKING RING (2)		



The ring can be assembled by hand, but for easy disassembly we recommend using snap ring pliers (HUDY #189040)



BEFORE inserting the clip on the central CVD shaft joint, apply a small amount of threadlock on the area where the clip goes.

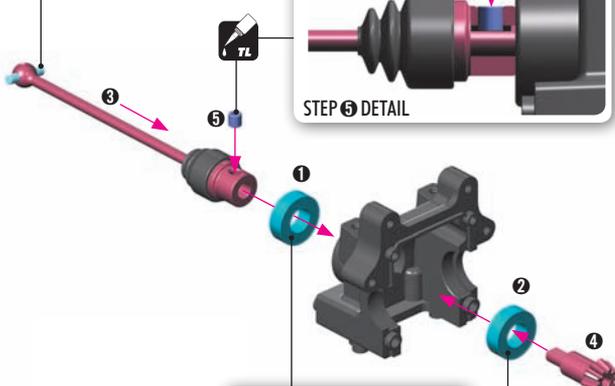
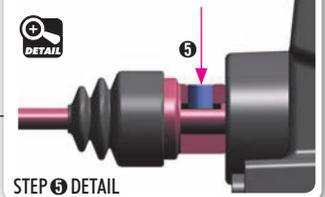
AFTER inserting the clip on the central CVD shaft joint, turn the clip so that the slot is 90° from the pin. This will prevent the pin from opening the clip.

step 1

step 2

TIP Follow the TECH TIP on page 5 for drive shaft pin servicing

Push joint against gear to remove gap. Tighten setscrew onto gear flat spot.



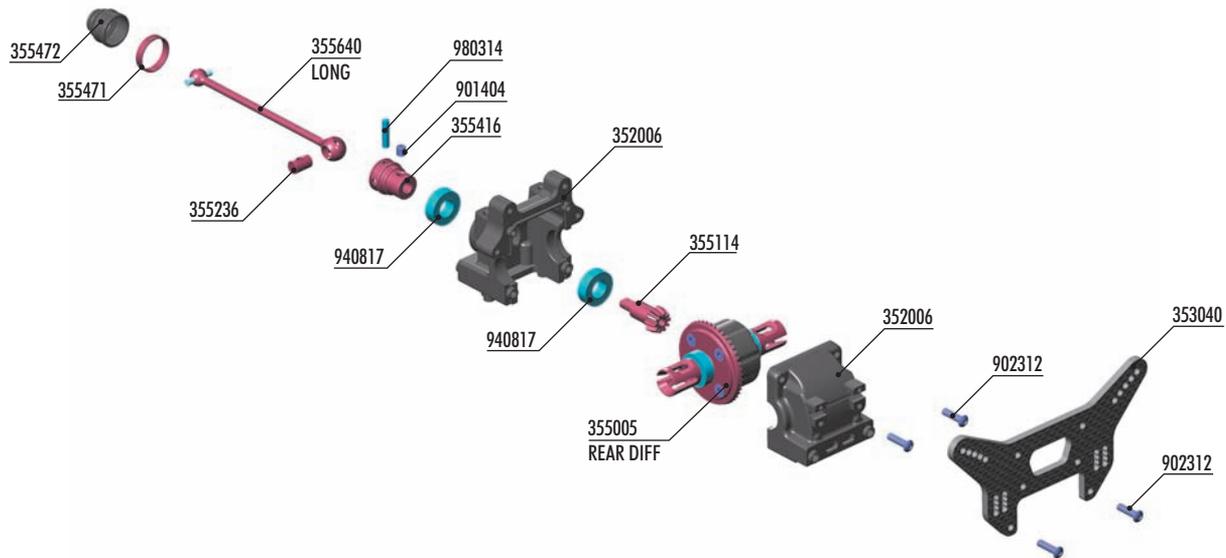
TIP Use HUDY Ball-Bearing Grease or Oil for servicing:
 #106220 - Standard
 #106221 - Extra
 #106222 - Premium
 #106230 - Bearing Oil

step 3



FRONT DIFF 300.000-St

Graphite Grease (HUDY #106210)



BAG

02

352006	DIFF BULKHEAD BLOCK SET FRONT/REAR	355471	DRIVE SHAFT LOCKING RING (2)
355005	DIFFERENTIAL 46T - V2 - SET	355472	DRIVE SHAFT BOOT (2)
353040	GT GRAPHITE REAR SHOCK TOWER - CNC MACHINED 3.5 MM	901404	HEX SCREW SB M4x4 (10)
355114	BEVEL DRIVE GEAR 14T	902312	HEX SCREW SH M3x12 (10)
355236	CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL™	940817	BALL-BEARING 8x16x5 RUBBER SEALED - OIL (2)
355416	CENTRAL CVD SHAFT UNIVERSAL JOINT - HUDY SPRING STEEL™	980314	PIN 3x14 (10)
355640	GT REAR CENTRAL CVD DRIVE SHAFT - HUDY SPRING STEEL™		



940817
BB 8x16x5



980314
P 3x14

step 1

LONG CVD DRIVE SHAFT

Apply oil from inside to prevent breakage of the rubber boot.

Graphite Grease (HUDY #106210)

NOTE ORIENTATION

The ring can be assembled by hand, but for easy disassembly we recommend using snap ring pliers (HUDY #189040)

STEP 4 DETAIL

PIN

TOP

BEFORE inserting the clip on the central CVD shaft joint, apply a small amount of threadlock on the area where the clip goes.

AFTER inserting the clip on the central CVD shaft joint, turn the clip so that the slot is 90° from the pin. This will prevent the pin from opening the clip.

step 2

TIP Follow the TECH TIP on page 5 for drive shaft pin servicing.

Push joint against gear to remove gap. Tighten setscrew onto gear flat spot.

STEP 5 DETAIL

TIP Use HUDY Ball-Bearing Grease or Oil for servicing:

- #106220 - Standard
- #106221 - Extra
- #106222 - Premium
- #106230 - Bearing Oil

step 3

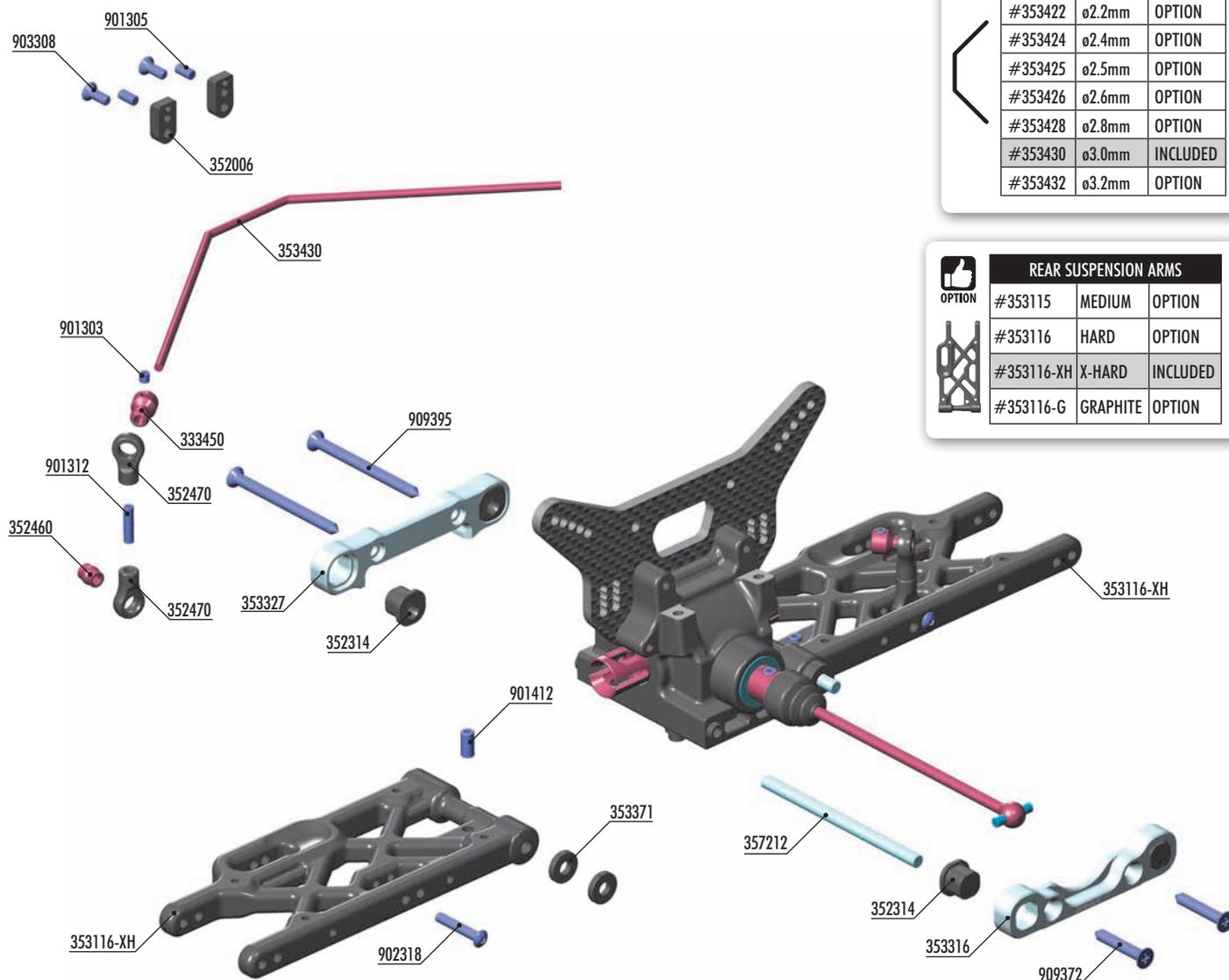
Cut on both front and rear bulkhead blocks

REAR DIFF 60.000:1

Graphite Grease (HUDY #106210)

step 4

REAR



REAR ANTI-ROLL BARS		
#353418	ø1.8mm	OPTION
#353420	ø2.0mm	OPTION
#353422	ø2.2mm	OPTION
#353424	ø2.4mm	OPTION
#353425	ø2.5mm	OPTION
#353426	ø2.6mm	OPTION
#353428	ø2.8mm	OPTION
#353430	ø3.0mm	INCLUDED
#353432	ø3.2mm	OPTION

REAR SUSPENSION ARMS		
#353115	MEDIUM	OPTION
#353116	HARD	OPTION
#353116-XH	X-HARD	INCLUDED
#353116-G	GRAPHITE	OPTION

#333451
 ALU ANTI-ROLL BAR PIVOT BALL 5.8 MM - SWISS 7075 T6 - HARDCOATED (2)



- 333450 ANTI-ROLL BAR BALL JOINT 5.8 MM (2)
- 352006 DIFF BULKHEAD BLOCK SET FRONT/REAR
- 352314 COMPOSITE ECCENTRIC BUSHINGS - V2 (2)
- 352460 PIVOT BALL 5.8 (10)
- 352470 BALL JOINT 5.8 (8)
- 353116-XH COMPOSITE REAR LOWER SUSPENSION ARM - X-HARD
- 353316 ALU REAR LOWER SUSP. HOLDER - FRONT - SQUARE ADJ. ROLL CENTER
- 353327 ALU REAR LOWER SUSP. HOLDER - REAR - SQUARE ADJ. ROLL CENTER
- 353371 SET OF COMPOSITE LOWER ARM SHIMS
- 353430 REAR ANTI-ROLL BAR 3.0MM
- 357212 LOWER INNER PIVOT PIN F+R (2)

- 901303 HEX SCREW SB M3x3 (10)
- 901305 HEX SCREW SB M3x5 (10)
- 901312 HEX SCREW SB M3x12 (10)
- 901412 HEX SCREW SB M4x12 (10)
- 902318 HEX SCREW SH M3x18 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 909372 SCREW PHILLIPS SS 3.5x22 (10)
- 909395 SCREW PHILLIPS SS 3.5x45 (10)



353371
SHIM 4x10x2



901412
SB M4x12



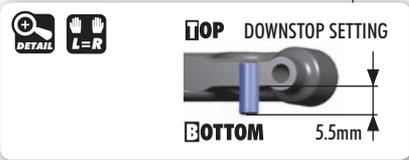
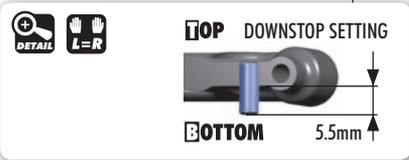
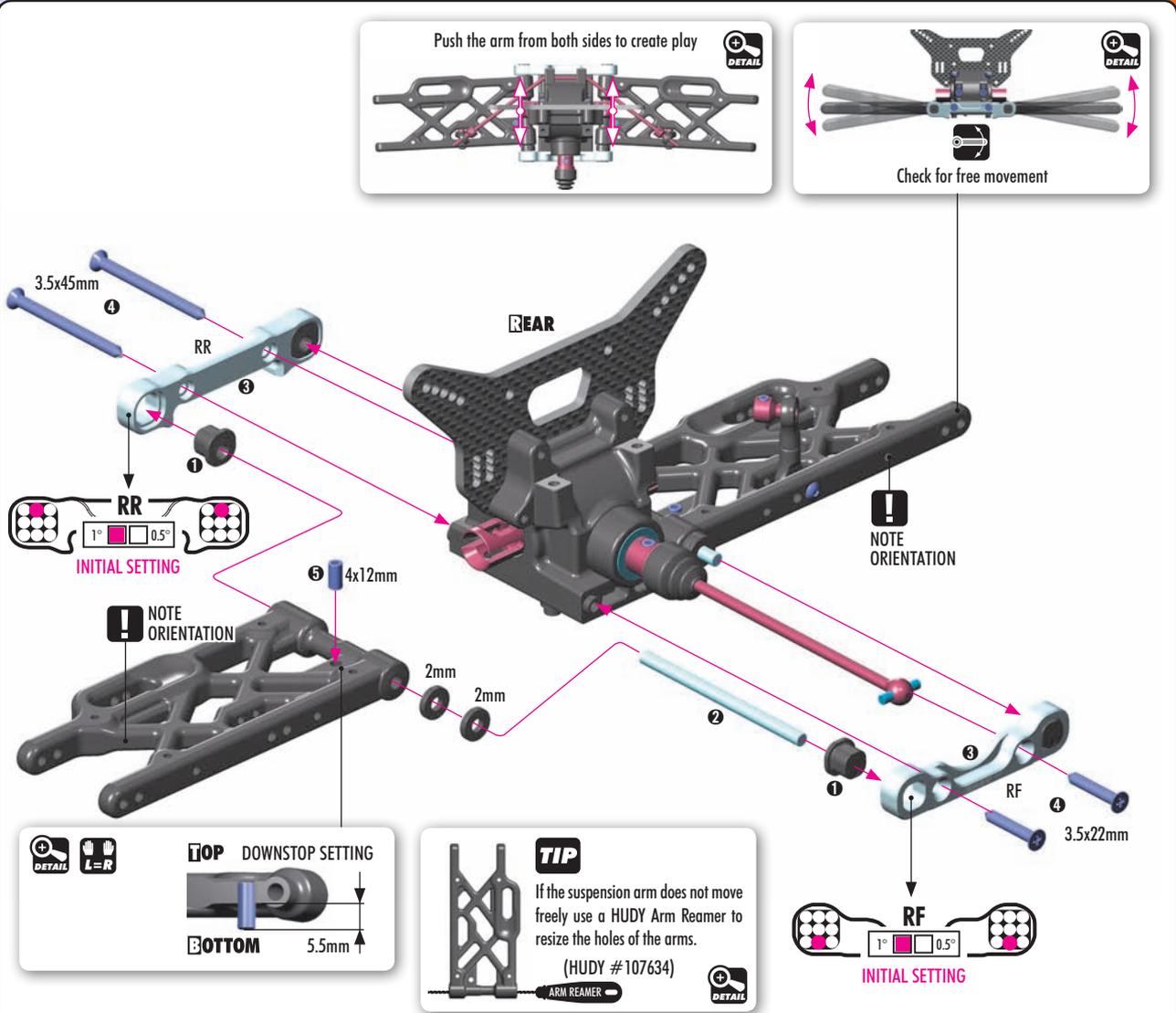
909372
SS 3.5x22



909395
SS 3.5x45

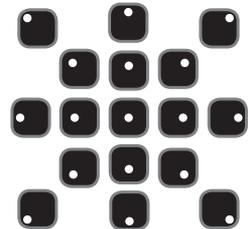
SET-UP BOOK

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



TIP
If the suspension arm does not move freely use a HUDY Arm Reamer to resize the holes of the arms.
(HUDY #107634)

All possible mounting alternatives of eccentric bushings



ECCENTRIC BUSHINGS HAVE TWO DIFFERENT OFFSETS FROM THE CENTER.

Middle position = 0.5 mm or 0.5° from center
 Outer position = 1 mm or 1° from center

The new XRAY rear alu lower suspension holders provide even greater range of adjustment for the rear suspension. Using different combinations of eccentric bushings, fine adjustment of rear anti-squat, rear toe-in, rear roll center, and rear track-width can be obtained. For more information about the influence of rear anti-squat, rear toe-in, rear roll center and rear track width on car handling, please refer to HUDY Off-Road Set-up Book (#209099).

ANTI-SQUAT		(°)
RR	RF	
		= 3°
		= 4°
		= 2°
		= 4°
		= 3°
		= 5°
		= 2°
		= 3°
		= 1°

ROLL CENTER		(mm)
RR	RF	
		= 0mm
		= 1mm
		= -1mm

The tables describe the amounts of rear anti-squat, rear toe-in, rear track-width change depending on the combinations of eccentric bushings used with 0 and 1mm, 1° off set. The 0.5mm, 0.5° represent the half change.

Example: 0(RR) - 0 (RF) = 3°

0(RR) - 0.5 (RF) = 3.5°

0(RR) - 1 (RF) = 4°

TRACK-WIDTH		(mm)
RR	RF	
		= 308
		= 306
		= 310

TOE-IN		(°)
RR	RF	
		= 3°
		= 4°
		= 2°
		= 2°
		= 3°
		= 1°
		= 4°
		= 5°
		= 3°

3. REAR SUSPENSION

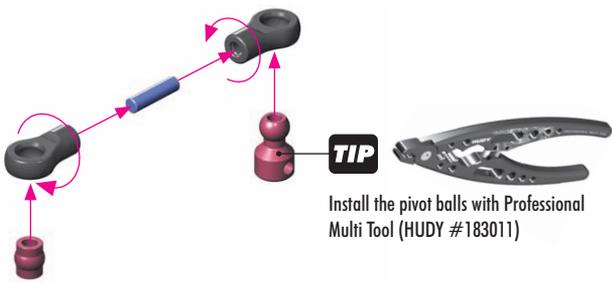
GTXE

GTX8

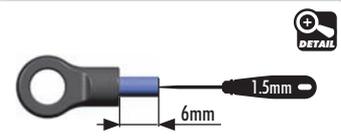


901312
SB M3x12

2x L=R



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



DETAIL



901303
SB M3x3



901305
SB M3x5

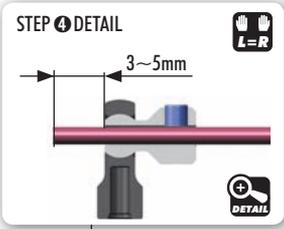


902318
SH M3x18



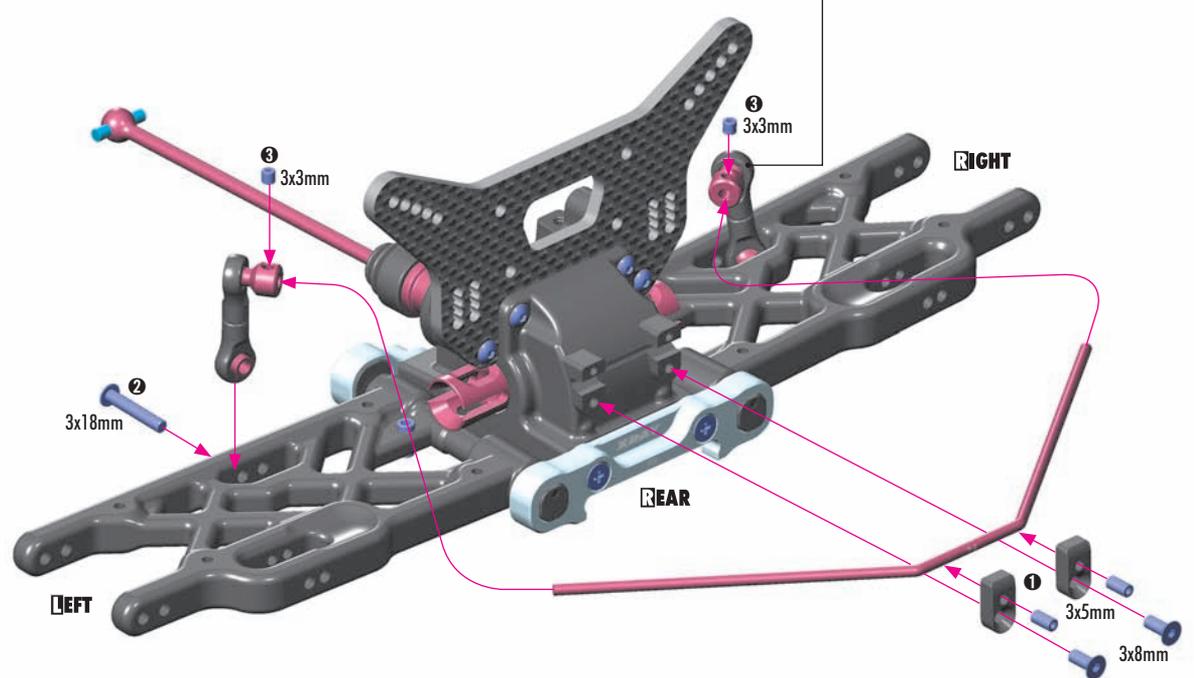
903308
SFH M3x8

L=R



L=R

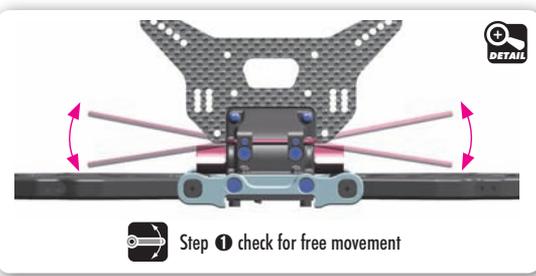
DETAIL



SET-UP BOOK
ANTI-ROLL BAR



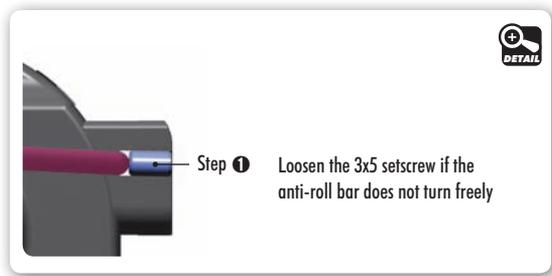
INITIAL SETTING



Step 1 check for free movement

REAR ANTI-ROLL BARS			
#353418	ø1.8mm	OPTION	
#353420	ø2.0mm	OPTION	
#353422	ø2.2mm	OPTION	
#353424	ø2.4mm	OPTION	
#353425	ø2.5mm	OPTION	
#353426	ø2.6mm	OPTION	
#353428	ø2.8mm	OPTION	
#353430	ø3.0mm	INCLUDED	
#353432	ø3.2mm	OPTION	

OPTION



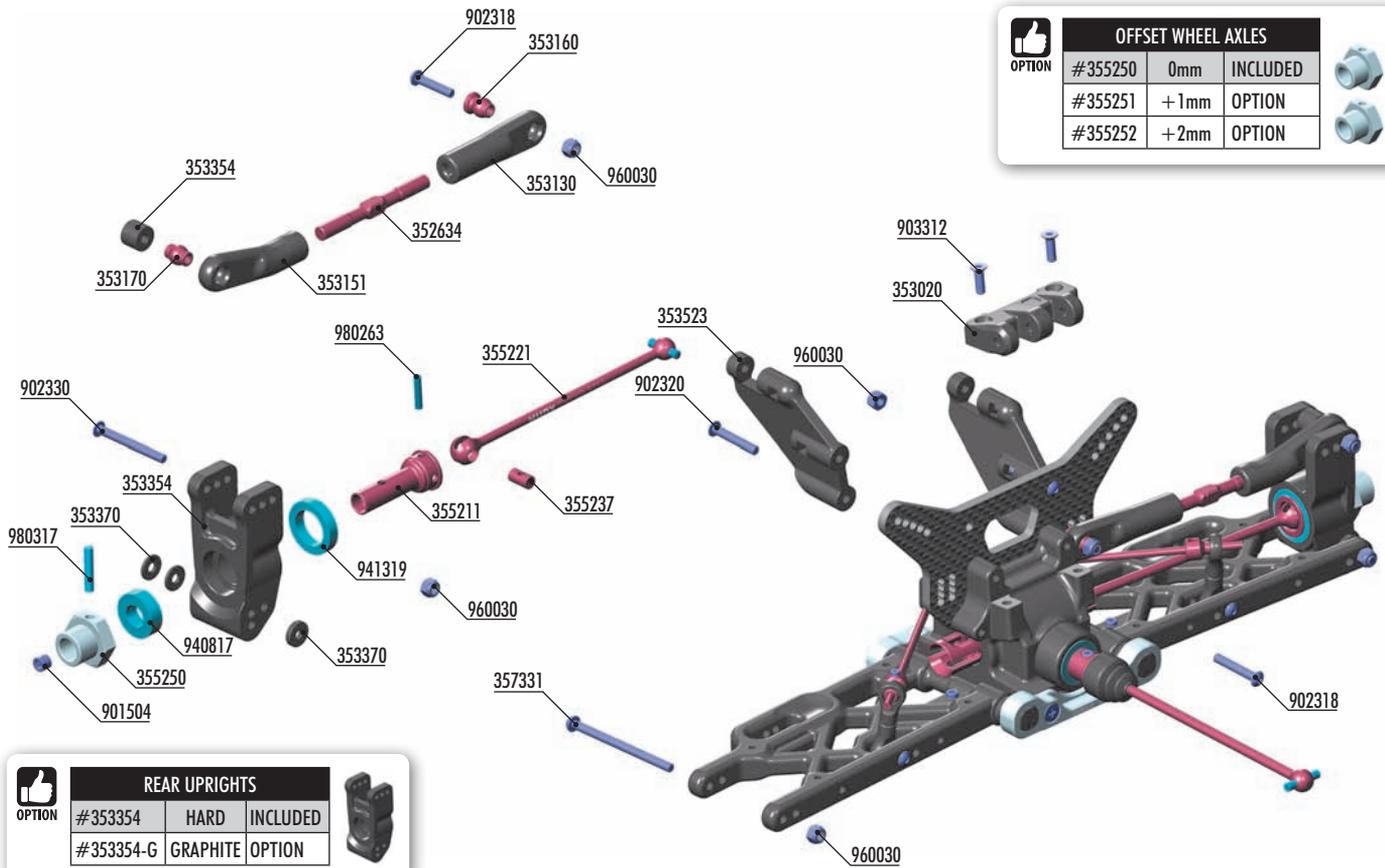
Step 1 Loosen the 3x5 setscrew if the anti-roll bar does not turn freely

4. REAR SUSPENSION

GTXE

GTX8

OFFSET WHEEL AXLES			
OPTION	#355250	0mm	INCLUDED
	#355251	+1mm	OPTION
	#355252	+2mm	OPTION



REAR UPRIGHTS		
OPTION	#353354	HARD INCLUDED
	#353354-G	GRAPHITE OPTION

BAG

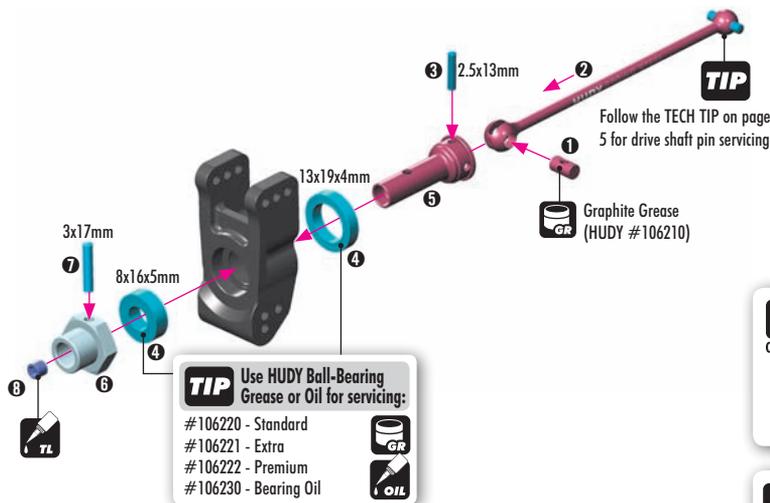
04

- 352634 ADJ. TURNBUCKLE M5 L/R 50 MM - HUDY SPRING STEEL™ (2)
- 353020 COMPOSITE REAR BRACE HOLDER
- 353130 REAR UPPER INNER CAMBER LINK BALL JOINT (2)
- 353151 REAR UPPER OUTER CAMBER LINK BALL JOINT - RELIEF (2)
- 353160 MOUNTING BALL 6.8 (4)
- 353170 PIVOT BALL 6.8 (4)
- 353354 COMPOSITE REAR UPRIGHT LB
- 353370 SET OF COMPOSITE REAR HUB CARRIER SHIMS
- 353523 GT COMPOSITE REAR HOLDER POST (2)
- 355211 CVD DRIVE AXLE - HUDY SPRING STEEL™
- 355221 CVD UNIVERSAL DRIVE SHAFT - HUDY SPRING STEEL™
- 355237 CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
- 355250 ALU WHEEL AXLE - BLACK COATED (2)

- 357331 REAR LOWER OUTER PIVOT PIN SCREW 3MM (2)
- 901504 HEX SCREW SB M5x4 (10)
- 902318 HEX SCREW SH M3x18 (10)
- 902320 HEX SCREW SH M3x20 (10)
- 902330 HEX SCREW SH M3x30 (10)
- 903312 HEX SCREW SFH M3x12 (10)
- 940817 BALL-BEARING 8x16x5 RUBBER SEALED - OIL (2)
- 941319 BALL-BEARING 13x19x4 RUBBER SEALED - OIL (2)
- 960030 NUT M3 (10)
- 980263 PIN 2.5x13 (10)
- 980317 PIN 3x17 (10)



2x L=R



TIP To tighten the setscrew you can also use the HUDY 17mm Wheel Nut Tool #107570

OFFSET WHEEL AXLES			
OPTION	#355250	0mm	INCLUDED
	#355251	+1mm	OPTION
	#355252	+2mm	OPTION

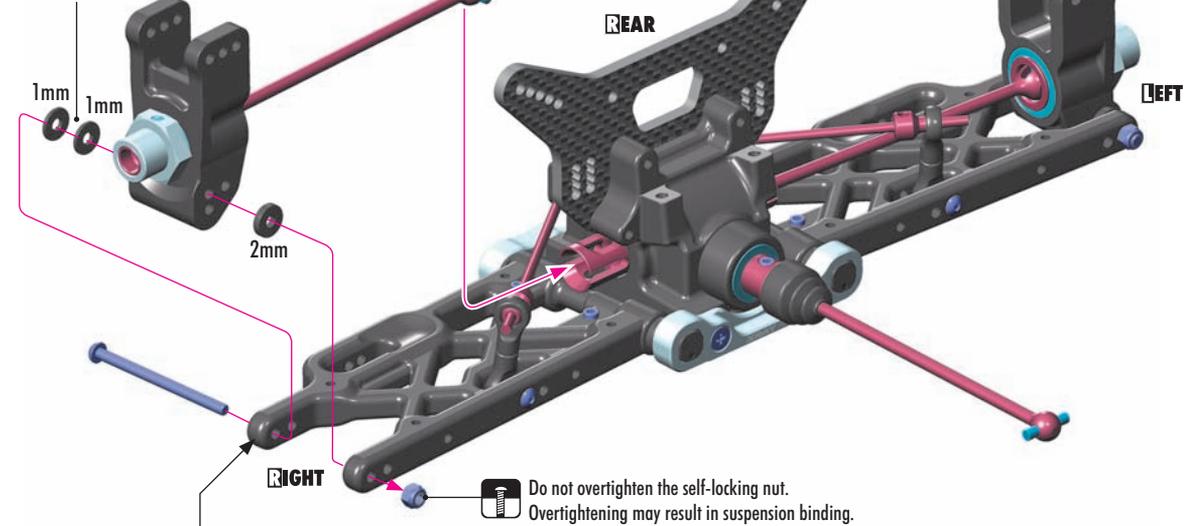
REAR UPRIGHTS		
OPTION	#353354	HARD INCLUDED
	#353354-G	GRAPHITE OPTION



2x L=R

TIP Ensure that the rear upright moves freely. If it does not move freely, use sandpaper to thin both wheelbase adjustment shims.

Shims for wheelbase adjustment



TIP L=R

If the suspension arm does not move freely use a HUDY Arm Reamer to resize the holes of the arms. (HUDY #107633)

DETAIL

INITIAL SETTING

DETAIL

Check for free movement

2x L=R

TIP

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

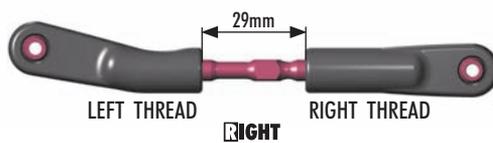
NOTE ORIENTATION

NOTE ORIENTATION



Use tools to tighten as shown

Special Tool for all turnbuckles & nuts (HUDY #181090) or Turnbuckle Wrench 5mm (HUDY #181050)



4. REAR SUSPENSION

GTXE

GTX8

2x

353354
SHIM 3x9x7

902318
SH M3x18

902330
SH M3x30

960030
N M3

NOTE ORIENTATION

7mm

3x18mm

3x30mm

LEFT

REAR

INITIAL SETTING

INITIAL SETTING

L=R

903312
SFH M3x12

LEFT

REAR

RIGHT

2x

902318
SH M3x18

902320
SH M3x20

960030
N M3

3x20mm

3x18mm

LEFT

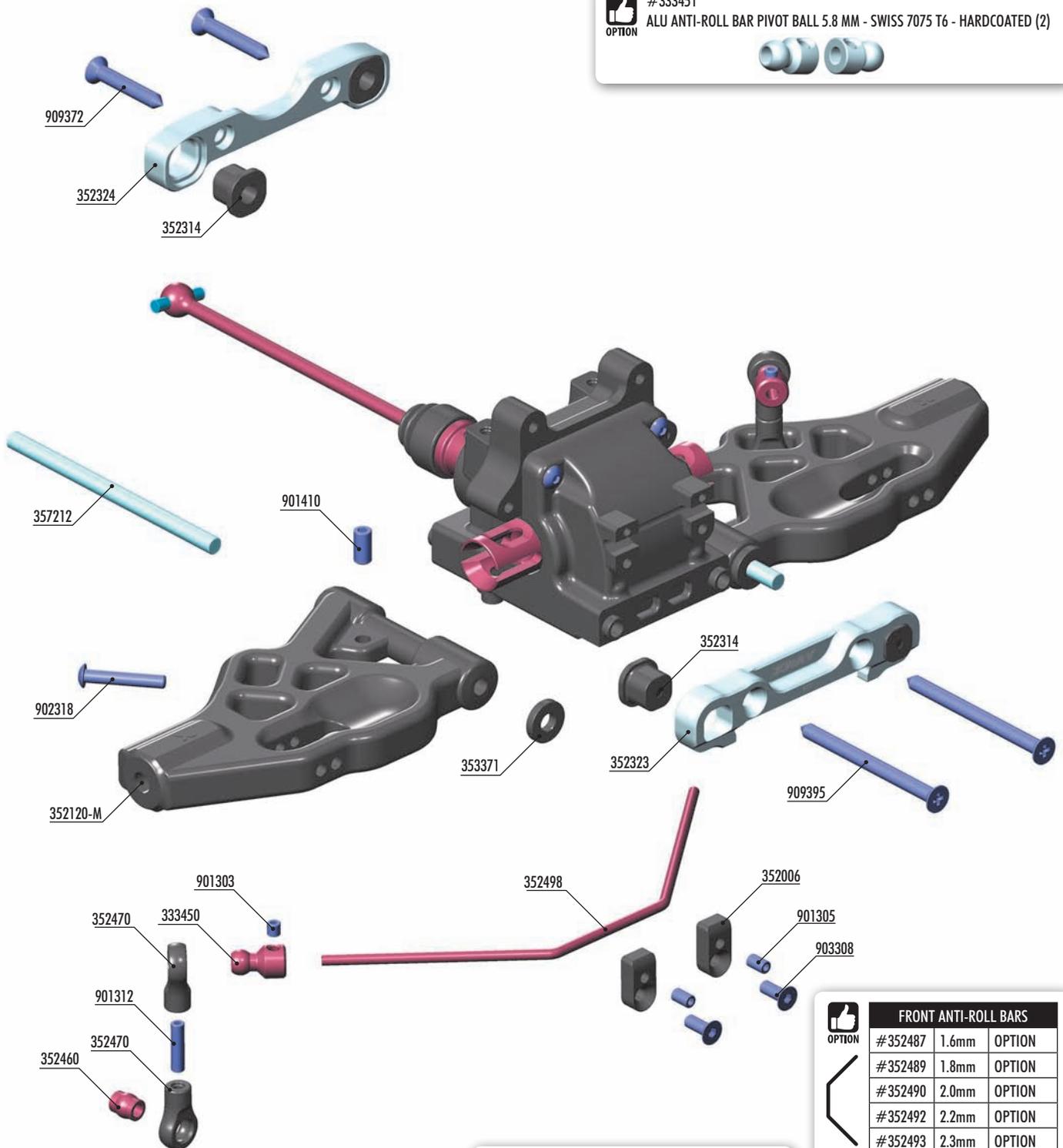
RIGHT

5. FRONT SUSPENSION

GTXE

GTX8

#333451
 ALU ANTI-ROLL BAR PIVOT BALL 5.8 MM - SWISS 7075 T6 - HARDCOATED (2)
 OPTION



FRONT LOWER SUSP. ARMS		
#352120	SOFT	OPTION
#352120-M	MEDIUM	INCLUDED
#352120-G	GRAPHITE	OPTION

FRONT ANTI-ROLL BARS		
#352487	1.6mm	OPTION
#352489	1.8mm	OPTION
#352490	2.0mm	OPTION
#352492	2.2mm	OPTION
#352493	2.3mm	OPTION
#352494	2.4mm	OPTION
#352495	2.5mm	OPTION
#352496	2.6mm	OPTION
#352498	2.8mm	INCLUDED

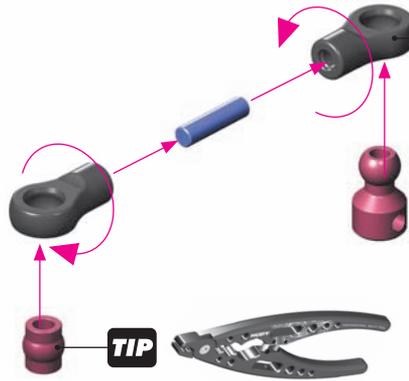
BAG
05

- | | | | |
|----------|---|--------|-------------------------------|
| 333450 | ANTI-ROLL BAR BALL JOINT 5.8 MM (2) | 357212 | LOWER INNER PIVOT PIN F+R (2) |
| 352006 | DIFF BULKHEAD BLOCK SET FRONT/REAR | 901303 | HEX SCREW SB M3x3 (10) |
| 352120-M | COMPOSITE FRONT LOWER SUSPENSION ARM - MEDIUM | 901305 | HEX SCREW SB M3x5 (10) |
| 352314 | COMPOSITE SQUARE ADJ. ROLL CENTER BUSHINGS - V2 (2) | 901312 | HEX SCREW SB M3x12 (10) |
| 352323 | ALU FRONT LOWER SUSP. HOLDER - FRONT - SQUARE ADJ. ROLL CENTER - V2 | 901410 | HEX SCREW SB M4x10 (10) |
| 352324 | ALU FRONT LOWER SUSP. HOLDER - REAR - SQUARE ADJ. ROLL CENTER - V2 | 902318 | HEX SCREW SH M3x18 (10) |
| 352460 | PIVOT BALL 5.8 (10) | 903308 | HEX SCREW SFH M3x8 (10)) |
| 352470 | BALL JOINT 5.8 (8) | 909372 | SCREW PHILLIPS SS 3.5x22 (10) |
| 352498 | FRONT ANTI-ROLL BAR 2.8MM | 909395 | SCREW PHILLIPS SS 3.5x45 (10) |
| 353371 | SET OF COMPOSITE LOWER ARM SHIMS | | |



901312
SB M3x12

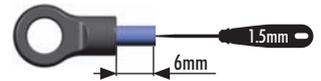
2x L=R



TIP

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

DETAIL



901303
SB M3x3



901305
SB M3x5

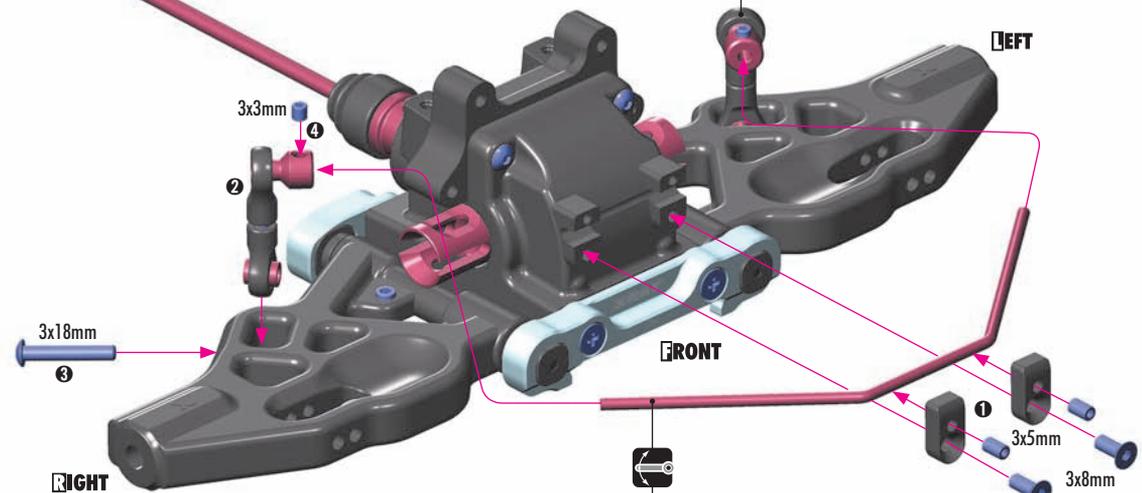


902318
SH M3x18

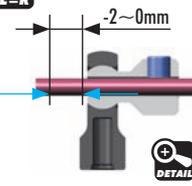


903308
SFH M3x8

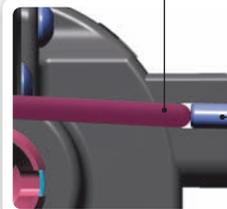
REAR



STEP 4 DETAIL L=R



DETAIL



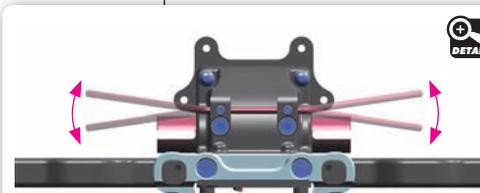
Step 1
Loosen the 3x5 setscrew if the anti-roll bar does not turn freely

OPTION

FRONT ANTI-ROLL BARS

#352487	1.6mm	OPTION
#352489	1.8mm	OPTION
#352490	2.0mm	OPTION
#352492	2.2mm	OPTION
#352493	2.3mm	OPTION
#352494	2.4mm	OPTION
#352495	2.5mm	OPTION
#352496	2.6mm	OPTION
#352498	2.8mm	INCLUDED

DETAIL



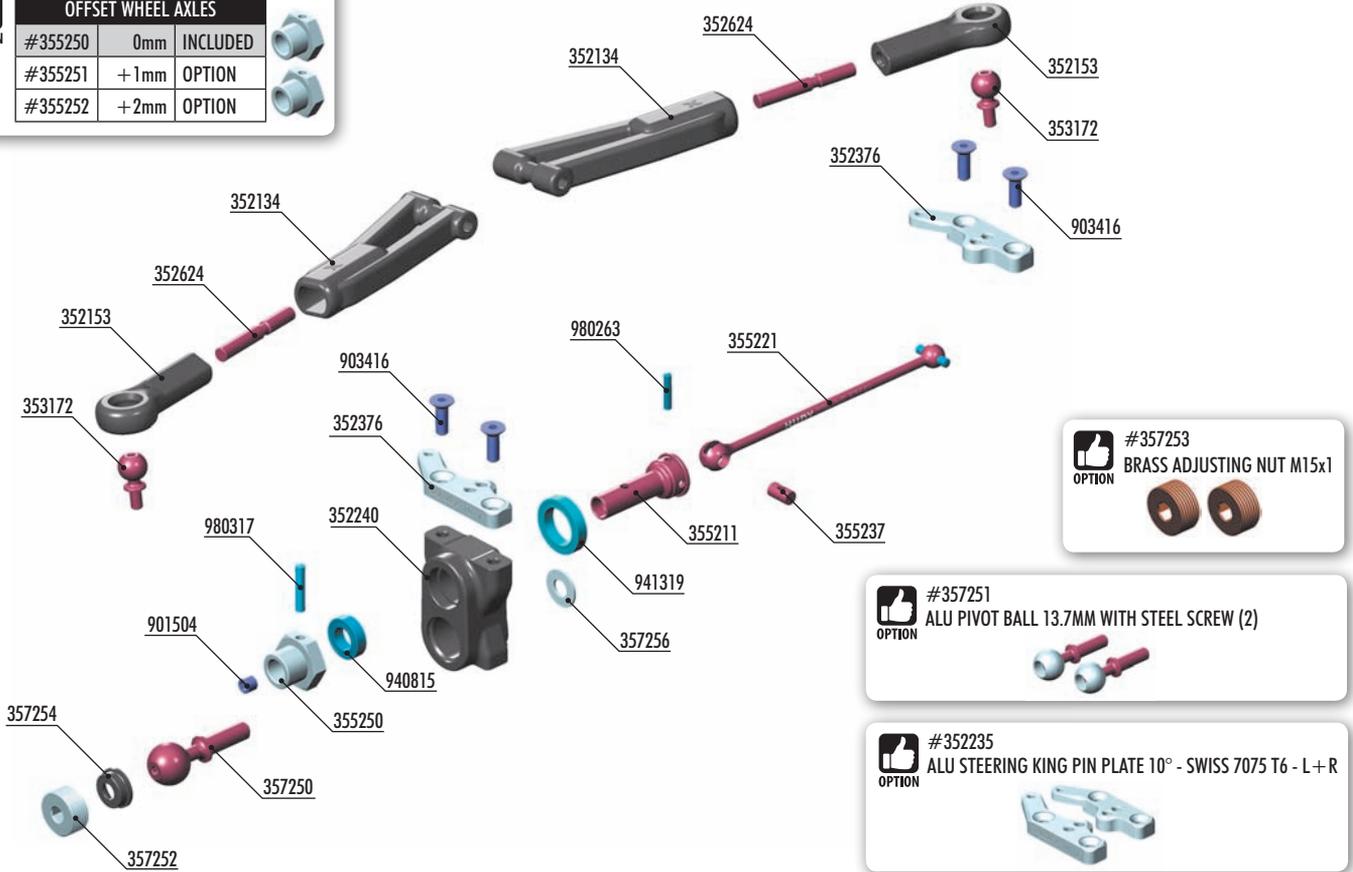
Step 1 check for free movement

SET-UP BOOK
ANTI-ROLL BAR



OFFSET WHEEL AXLES

OPTION	Offset	Included
#355250	0mm	INCLUDED
#355251	+1mm	OPTION
#355252	+2mm	OPTION



#357253
OPTION BRASS ADJUSTING NUT M15x1

#357251
OPTION ALU PIVOT BALL 13.7MM WITH STEEL SCREW (2)

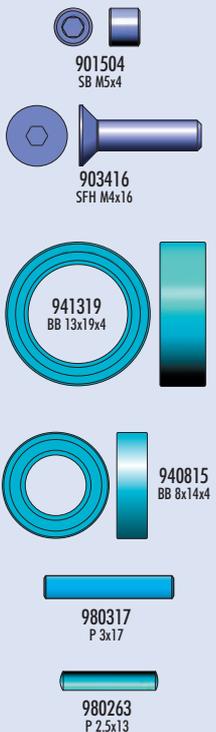
#352235
OPTION ALU STEERING KING PIN PLATE 10° - SWISS 7075 T6 - L+R

BAG

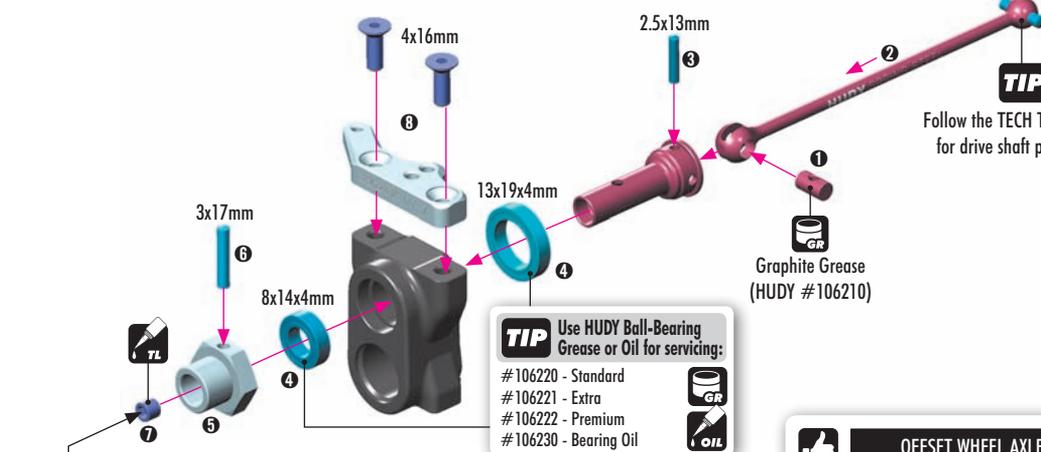


- 352134 GT FRONT UPPER ARM
- 352153 FRONT UPPER ARM BALL JOINT (L+R)
- 352240 STEERING BLOCK
- 352376 GT ALU STEERING KING PIN PLATE 0°-7° - SWISS 7075 T6 - L+R
- 352624 ADJ. TURNBUCKLE M5 L/R 38 MM - HUDY SPRING STEEL™ (2)
- 353172 PIVOT BALL 11.0 (2)
- 355211 CVD DRIVE AXLE - HUDY SPRING STEEL™
- 355221 CVD UNIVERSAL DRIVE SHAFT - HUDY SPRING STEEL™
- 355237 CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
- 355250 ALU WHEEL AXLE - BLACK COATED (2)
- 357250 STEEL PIVOT BALL 13.7 MM (2)

- 357252 ALU ADJUSTING NUT M15x1 (2)
- 357254 COMPOSITE BALL CUP 13.9 MM (2)
- 357256 ALU SHIM 6x13x1 (2)
- 901504 HEX SCREW SB M5x4 (10)
- 903416 HEX SCREW SFH M4x16 (10)
- 940815 BALL-BEARING 8x14x4 RUBBER SEALED - OIL (2)
- 941319 BALL-BEARING 13x19x4 RUBBER SEALED - OIL (2)
- 980263 PIN 2.5x13 (10)
- 980317 PIN 3x17 (10)



2x L=R



TIP
Follow the TECH TIP on page 5 for drive shaft pin servicing

Graphite Grease (HUDY #106210)

TIP Use HUDY Ball-Bearing Grease or Oil for servicing:

- #106220 - Standard
- #106221 - Extra
- #106222 - Premium
- #106230 - Bearing Oil

TIP To tighten the setscrew you can also use the HUDY 17mm Wheel Nut Tool #107570

OPTION

OFFSET WHEEL AXLES		
#355250	0mm	INCLUDED
#355251	+1mm	OPTION
#355252	+2mm	OPTION

#352235
OPTION ALU STEERING KING PIN PLATE SWISS 7075 T6 - L+R 10°

6. FRONT SUSPENSION

GTXE

GTX8

2x **L=R**

TIP Tighten composite hex nuts using HUDY tool #107581

Apply WD40 to protect against rust

#357251 ALU PIVOT BALL 13.7MM WITH STEEL SCREW (2)

#357253 BRASS ADJUSTING NUT M15x1

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.

357256 SHIM 6x13x1

2x **L=R**

TIP HUDY Tool Allen 2.5mm

1mm

FRONT

SET-UP BOOK
CAMBER

2x **L=R** **TIP** HUDY Tool Allen Ball 2.5mm

SHORT LONG

30mm

110mm

110mm

LEFT **RIGHT**

Marked (L) = Marked (L)

Marked (R) = Marked (R)

353380 SHIM 4x7.5x1

353381 SHIM 4x7.5x2

2x **L=R**

Apply WD40 to protect against rust

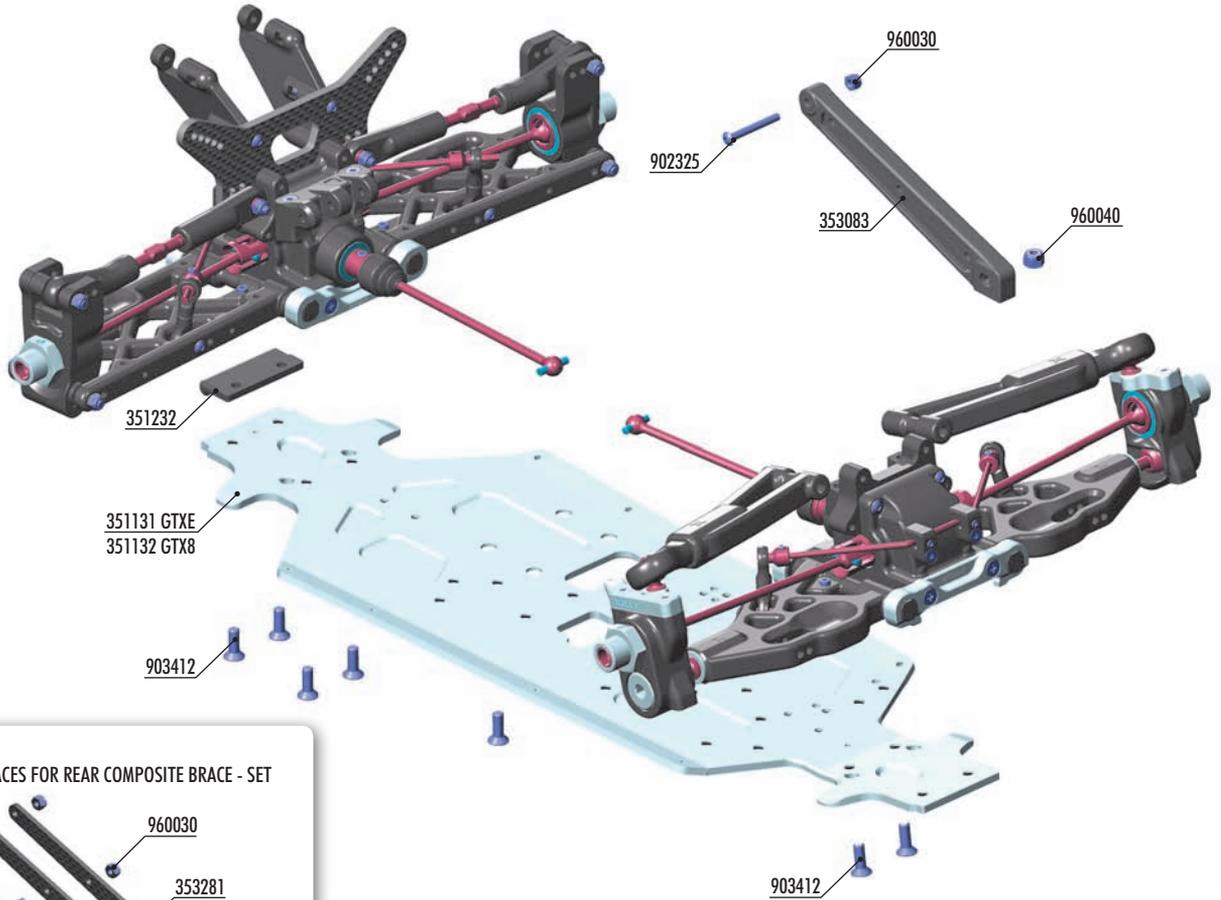
Factory preassembled

LEFT **RIGHT** **FRONT**

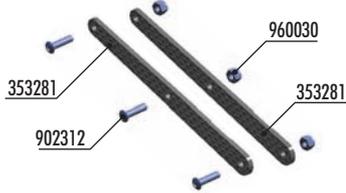
OPTION Optional shims can be used for Roll Center adjustment.
#353380 - Alu shim 4x7.5x1mm
#353381 - Alu shim 4x7.5x2mm

INITIAL SETTING

SET-UP BOOK
ROLL CENTER



#353281
OPTION GT GRAPHITE BRACES FOR REAR COMPOSITE BRACE - SET



BAG

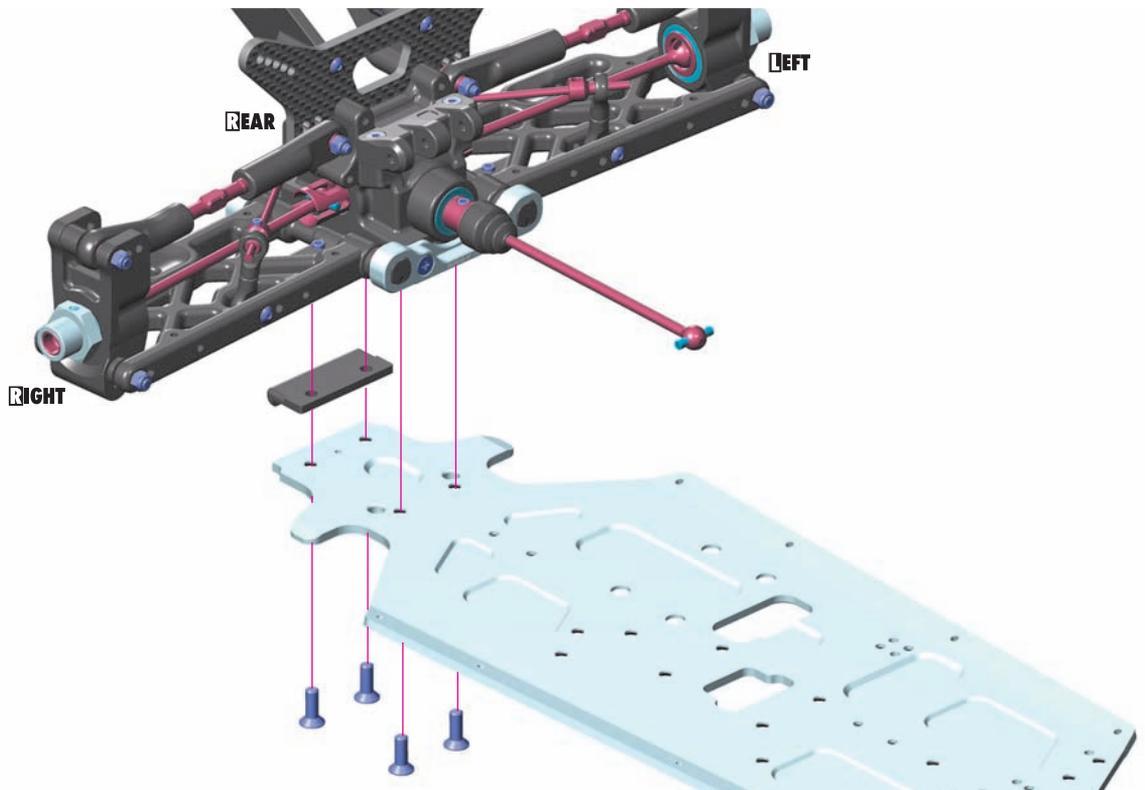
06

- 351131 GTXE ALU CHASSIS - SWISS 7075 T6 (3MM)
- 351132 GTX8'19 ALU CHASSIS - SWISS 7075 T6 (3MM)
- 351232 GT COMPOSITE FRONT & REAR SUSPENSION HOLDER PLATE
- 353083 GT COMPOSITE REAR BRACE

- 902325 HEX SCREW SH M3x25 (10)
- 903412 HEX SCREW SFH M4x12 (10)
- 960030 NUT M3 (10)
- 960040 NUT M4 (10)



903412
 SFH M4x12





902325
SH M3x25



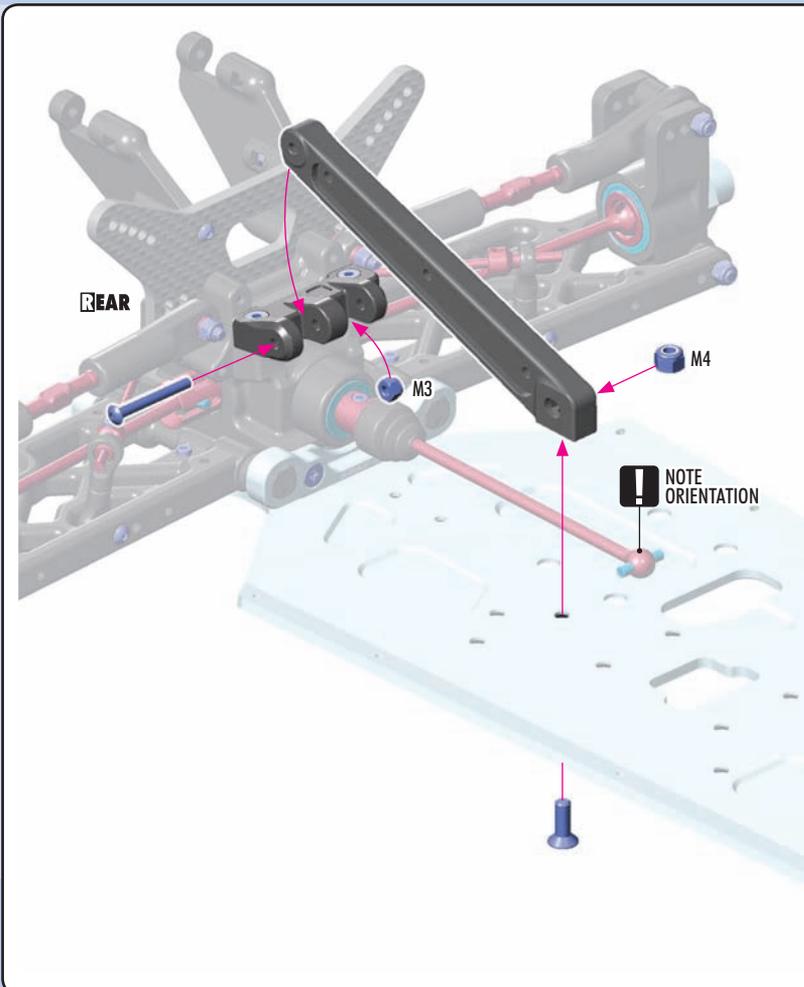
903412
SFH M4x12



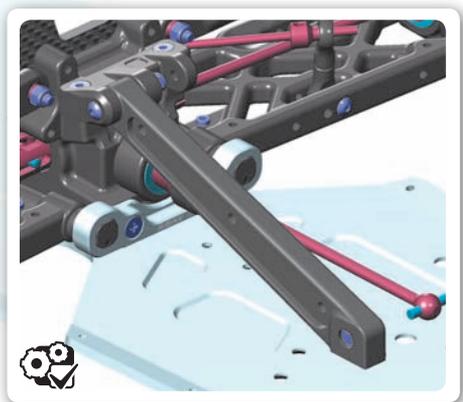
960030
N M3



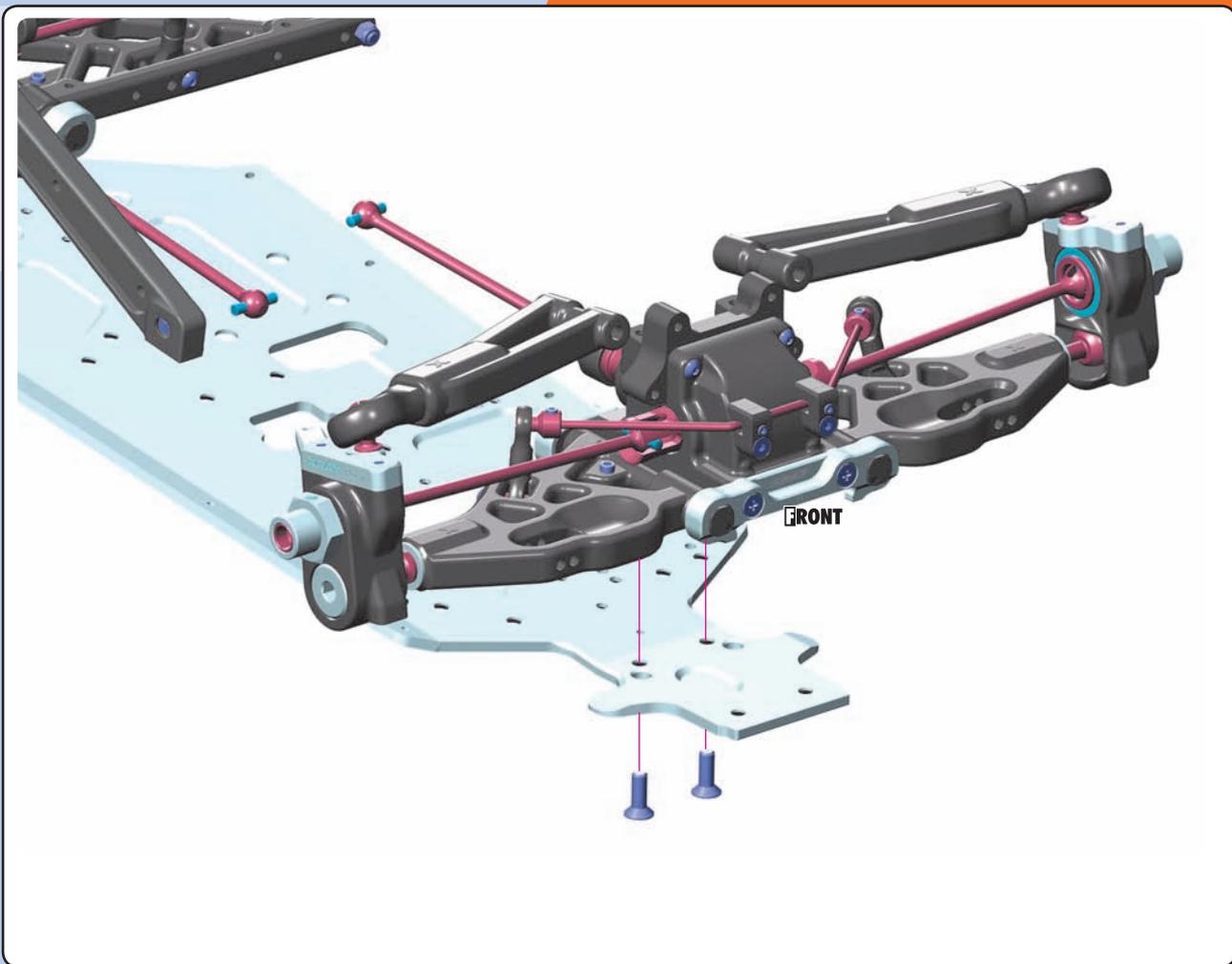
960040
N M4



#353281
GRAPHITE BRACE SET for extra stiffness adjustment.



903412
SFH M4x12



7. STEERING

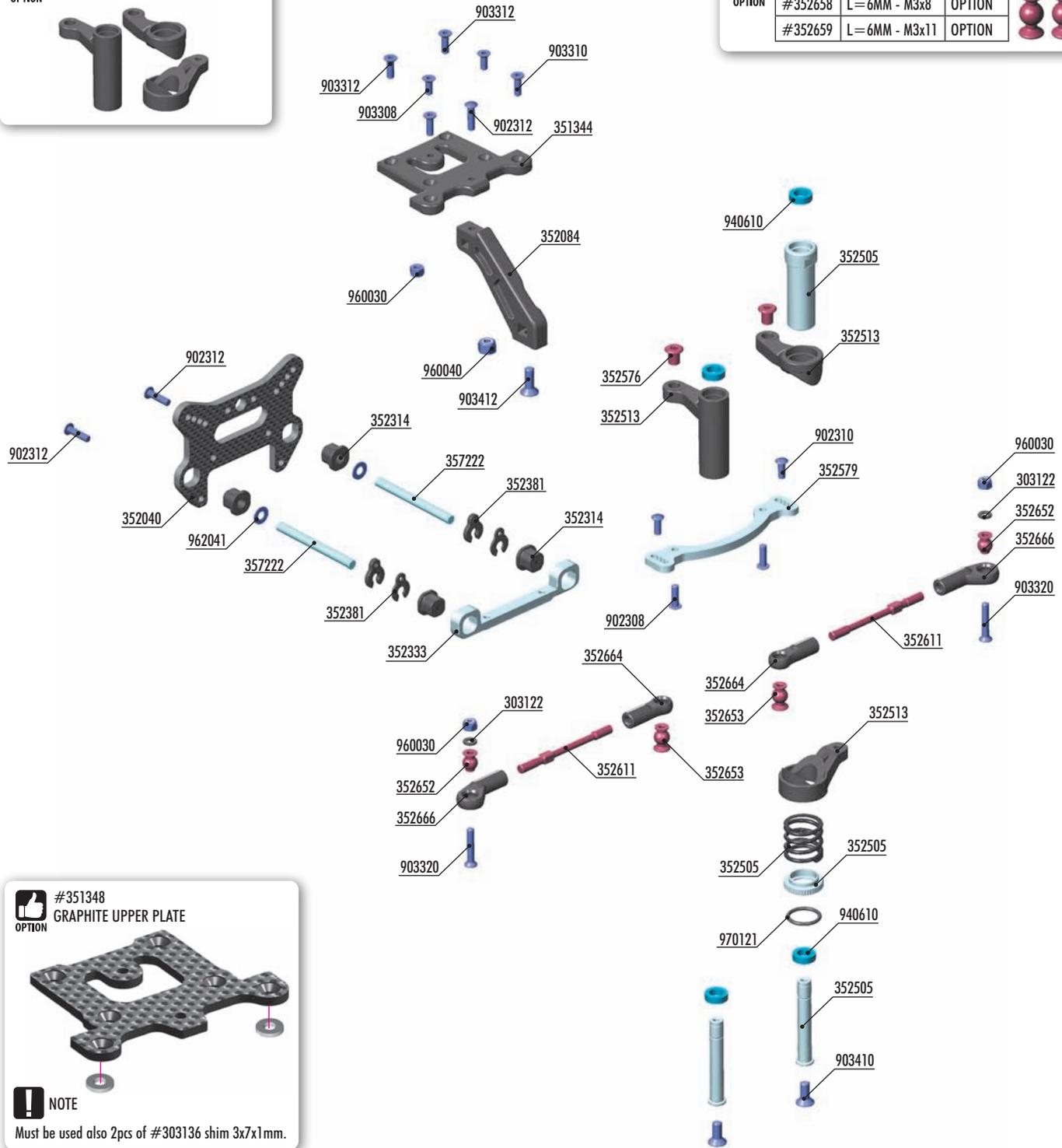
GTXE

GTX8

#352514
COMPOSITE SERVO SAVER - GRAPHITE



OPTION	BALL STUD 6.8mm WITH BACKSTOP		
#352658	L=6MM - M3x8	OPTION	
#352659	L=6MM - M3x11	OPTION	



#351348
GRAPHITE UPPER PLATE



NOTE
Must be used also 2pcs of #303136 shim 3x7x1mm.

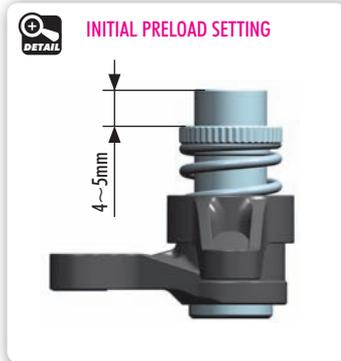
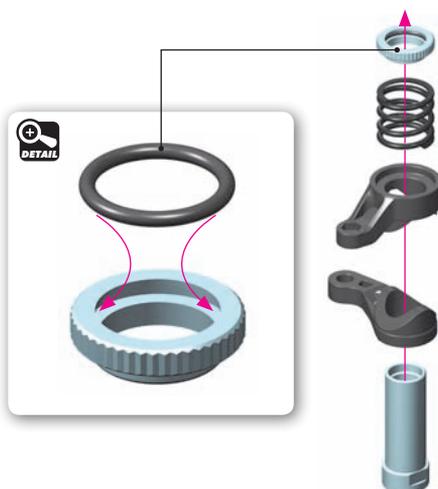
BAG

07

- | | | | |
|--------|---|--------|---|
| 303122 | ALU SHIM 3x6x1.0MM (10) | 902308 | HEX SCREW SH M3x8 (10) |
| 351344 | COMPOSITE UPPER PLATE | 902310 | HEX SCREW SH M3x10 (10) |
| 352040 | GT GRAPHITE FRONT SHOCK TOWER - CNC MACHINED 3.5 MM | 902312 | HEX SCREW SH M3x12 (10) |
| 352084 | COMPOSITE FRONT BRACE | 903308 | HEX SCREW SFH M3x8 (10) |
| 352314 | COMPOSITE SQUARE ADJ. ROLL CENTER BUSHINGS - V2 (2) | 903310 | HEX SCREW SFH M3x10 (10) |
| 352333 | ALU FRONT UPPER ARM HOLDER - SWISS 7075 T6 (6MM) | 903312 | HEX SCREW SFH M3x12 (10) |
| 352381 | CASTER CLIPS (2) | 903320 | HEX SCREW SFH M3x20 (10) |
| 352505 | SERVO SAVER COMPLETE SET | 903410 | HEX SCREW SFH M4x10 (10) |
| 352513 | COMPOSITE SERVO SAVER | 903412 | HEX SCREW SFH M4x12 (10) |
| 352576 | STEERING PLATE BUSHING (2) | 940610 | BALL-BEARING 6x10x3 RUBBER SEALED - OIL (2) |
| 352579 | ALU STEERING PLATE - SWISS 7075 T6 | 960030 | NUT M3 (10) |
| 352611 | ADJ. TURNBUCKLE M4 L/R 52.5 MM - HUDY SPRING STEEL™ (2) | 960040 | NUT M4 (10) |
| 352652 | BALL STUD 6.8MM (4) | 962041 | WASHER S 4x8x0.5 (10) |
| 352653 | BALL STUD 6.8MM WITH BACKSTOP - M3 (2) | 970121 | O-RING 12.1 x 1.6 (10) |
| 352664 | COMPOSITE STEERING BALL JOINT 6.8MM - V3 (2) | | |
| 352666 | COMPOSITE RELIEF STEERING BALL JOINT 6.8MM (2) | | |
| 357222 | FRONT UPPER PIVOT PIN 4x45 (2) | | |



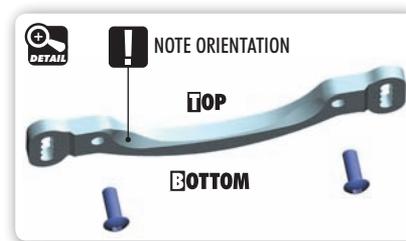
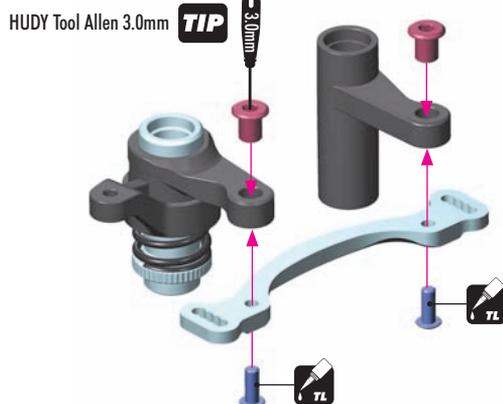
970121
O 12.1x1.6



SET-UP BOOK
SERVO SAVER



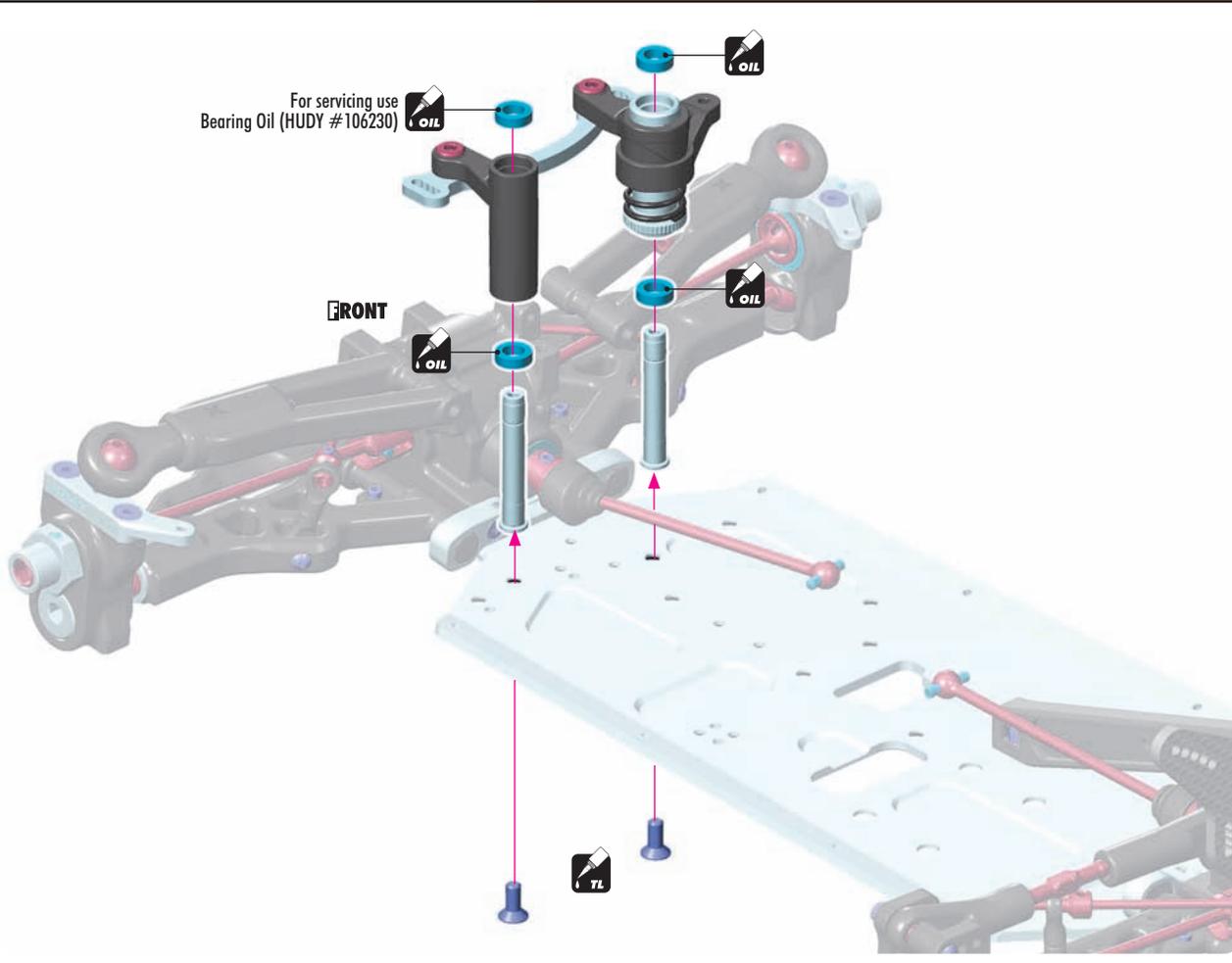
902308
SH M3x8



903410
SFH M4x10



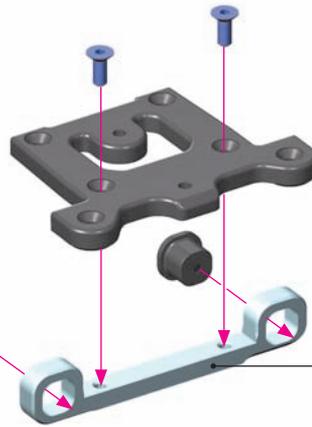
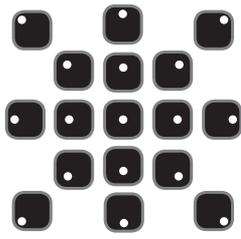
940610
BB 6x10x3





903308
SFH M3x8

All possible mounting alternatives of eccentric bushings



SET-UP BOOK
ROLL CENTER



902312
SH M3x12



903310
SFH M3x10



903312
SFH M3x12

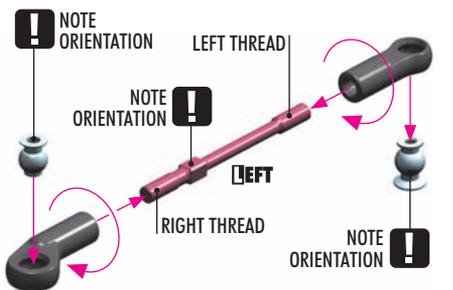
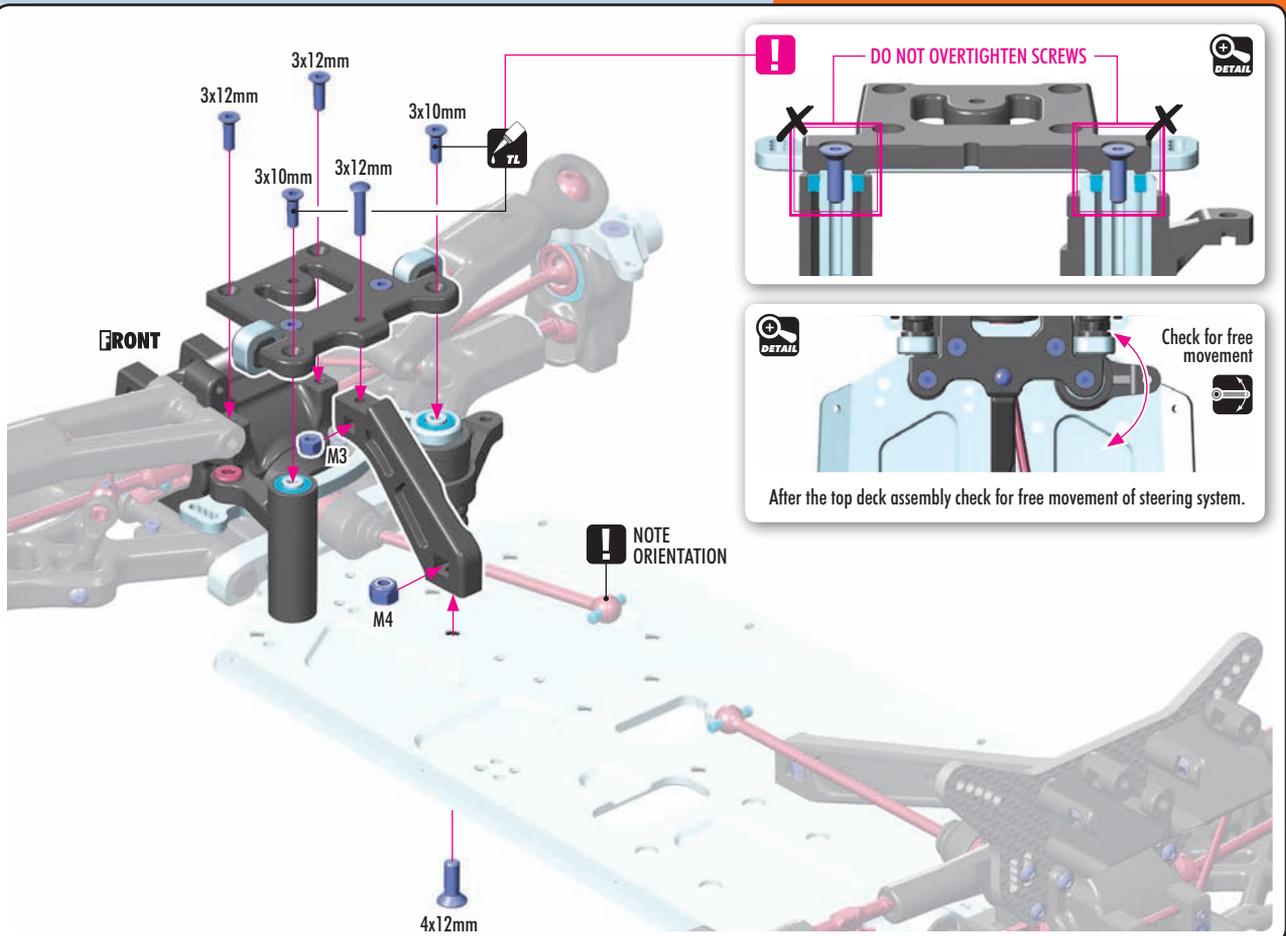
903412
SFH M4x12



960030
N M3



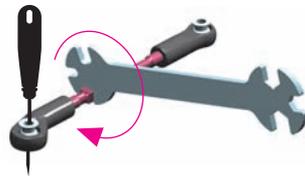
960040
N M4



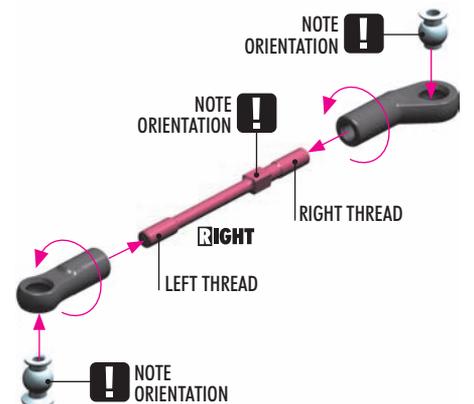
TIP Follow the TECH TIP on page 5 to install the pivot balls



TIP Use tools to tighten as shown



Special Tool for all turnbuckles & nuts:
(HUDY #181090)
or Turnbuckle Wrench 4mm:
(HUDY #181040)





902312
SH M3x12



962041
SHIM 4x8x0.5

LEFT

RIGHT

Caster shims
1.0mm + 2.0mm

0.5mm
Clearance shim

INITIAL POSITION

1° 0.5°

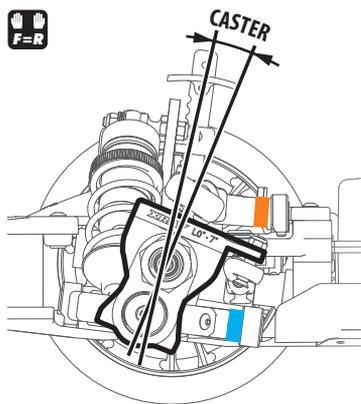
All possible mounting alternatives of eccentric bushings

NOTE ORIENTATION

DETAILS

Cutaway view Shock Tower

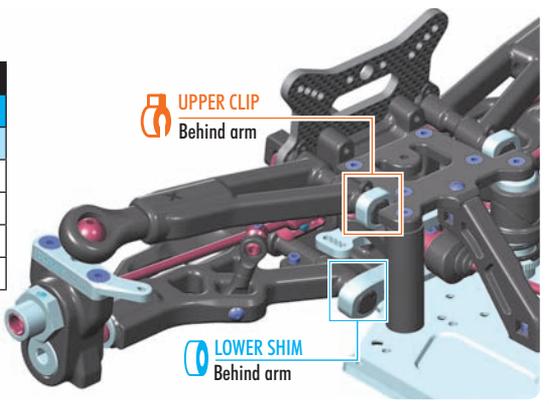
NOTE ORIENTATION



UPPER CLIP (Behind arm)	CASTER		
	4mm	2mm	0
3mm	28°	25°	22°
2mm	29.5°	26.5°	23.5°
1mm	31°	28°	25°
0	32.5°	29.5°	26.5°

The clearance shim 0.5mm can be installed anywhere and will not affect caster.

UPPER CLIP
Behind arm



SET-UP BOOK

ROLL CENTER
CASTER



303122
SHIM 3x6x1



902310
SH M3x10



960030
N M3

2x **L=R**

FRONT

INITIAL POSITION

1.0mm

Check for free movement

Check for free movement

SET-UP BOOK

ACKERMANN
BUMPS STEER
TOE-IN

8. CENTER DIFF & BRAKE

GTX8

#354010-G
COMPOSITE CENTER DIFFERENTIAL MOUNTING PLATE SET - GRAPHITE



#354113
SUPER-LIGHTWEIGHT VENTILATED BRAKE DISK - PRECISION-GROUND (2)

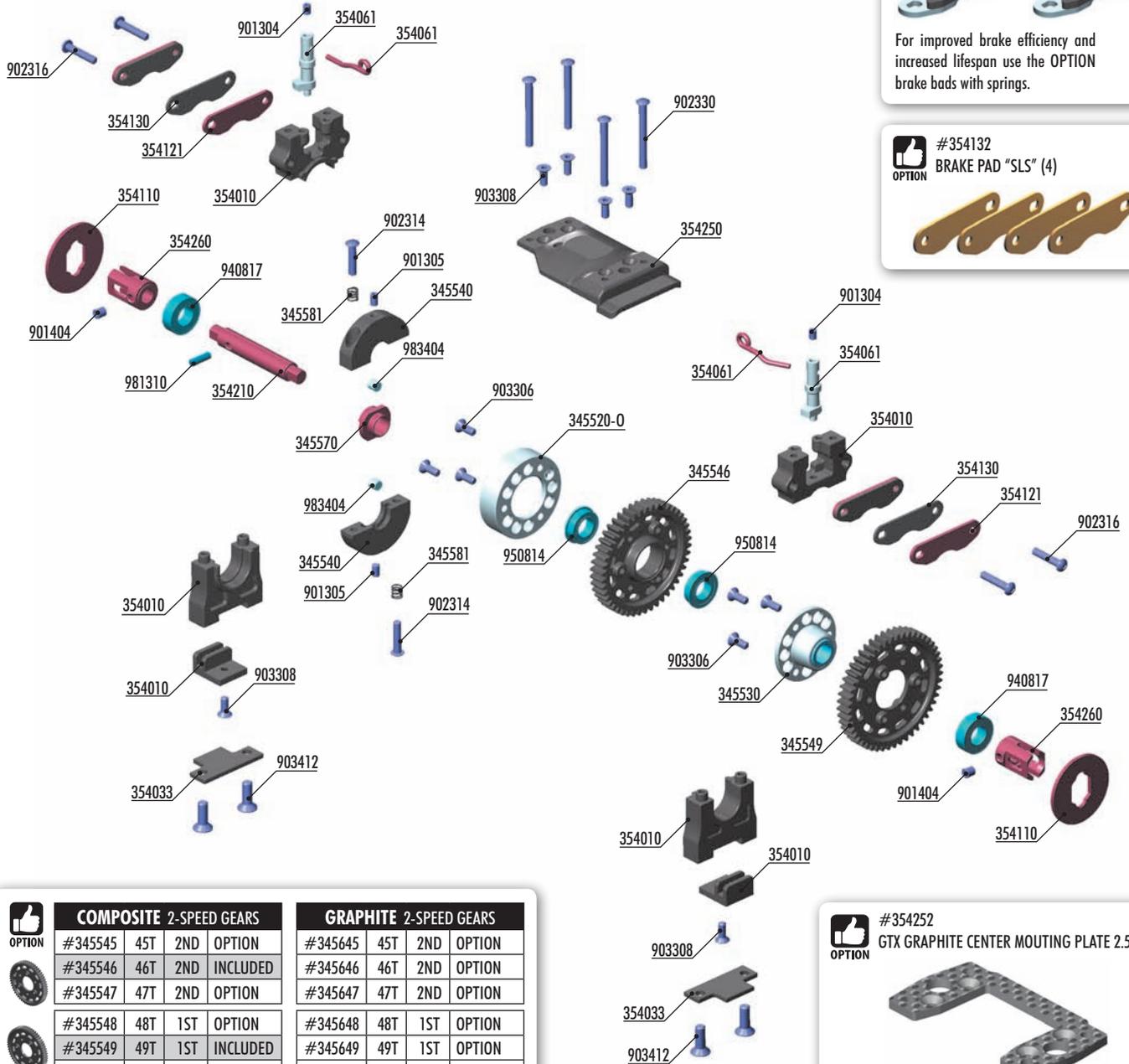


#354131
GLUED BRAKE PADS SET-ULTRA EFFICIENT (4)



For improved brake efficiency and increased lifespan use the OPTION brake pads with springs.

#354132
BRAKE PAD "SLS" (4)



COMPOSITE 2-SPEED GEARS

#345545	45T	2ND	OPTION
#345546	46T	2ND	INCLUDED
#345547	47T	2ND	OPTION
#345548	48T	1ST	OPTION
#345549	49T	1ST	INCLUDED
#345550	50T	1ST	OPTION

GRAPHITE 2-SPEED GEARS

#345645	45T	2ND	OPTION
#345646	46T	2ND	OPTION
#345647	47T	2ND	OPTION
#345648	48T	1ST	OPTION
#345649	49T	1ST	OPTION
#345650	50T	1ST	OPTION



#354252
GTX GRAPHITE CENTER MOUNTING PLATE 2.5mm



BAG

08

- 345520-0 CARRIER FOR 2-SPEED GEAR (2nd) - SWISS 7075 T6 - ORANGE
- 345530 ALU DRIVE FLANGE WITH ONE-WAY BEARING - SWISS 7075 T6
- 345540 COMPOSITE 2-SPEED GEAR BOX SHOE - SET
- 345546 COMPOSITE 2-SPEED GEAR 46T (2nd) - H
- 345549 COMPOSITE 2-SPEED GEAR 49T (1st)
- 345570 ADAPTER 2-SPEED
- 345581 GEAR BOX SPRING C=13.0 (2)
- 354010 CENTER DIFF MOUNTING PLATE - SET
- 354033 GT COMPOSITE 2-SPEED HOLDER PLATE (2)
- 354061 ALU BRAKE CAM POST & ROD (2+2) HARD COATED
- 354110 VENTILATED BRAKE DISK - LASER CUT - PRECISION-GROUND
- 354121 STEEL BRAKE PAD - LASER CUT (4)
- 354130 BRAKE PAD FIBER (4)
- 354210 GT 2-SPEED SHAFT - HUDY SPRING STEEL™
- 354250 GT COMPOSITE 2-SPEED UPPER PLATE

- 354260 GT CENTRAL TRANSM. OUTDRIVE ADAPTER - HUDY SPRING STEEL™
- 901304 HEX SCREW SB M3x4 (10)
- 901305 HEX SCREW SB M3x5 (10)
- 901404 HEX SCREW SB M4x4 (10)
- 902314 HEX SCREW SH M3x14 (10)
- 902316 HEX SCREW SH M3x16 (10)
- 902330 HEX SCREW SH M3x30 (10)
- 903306 HEX SCREW SFH M3x6 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 903412 HEX SCREW SFH M4x12 (10)
- 940817 BALL-BEARING 8x16x5 RUBBER SEALED - OIL (2)
- 950814 BALL-BEARING 8x14x4 FLANGED - STEEL SEALED - OIL (2)
- 981310 PIN 3x10 (10)
- 983404 ROLLER PIN 4x4 MM (2)

8. CENTER DIFF & BRAKE

STEEL **2x** FIBRE FIBRE **2x** STEEL

CA

TIP

Roughen steel plates with sandpaper before gluing fibre pads

TOP OVAL HOLE

NOTE ORIENTATION

BOTTOM ROUND HOLE

902316
SH M3x16

2x F=R

ROUND HOLE NOTE ORIENTATION

OVAL HOLE NOTE ORIENTATION

Fibre pads together

Temporarily insert brake disk between pads to set correct gap

0.5 mm

OPTION #354132 BRAKE PAD "SLS" (4)

OPTION #354131 GLUED BRAKE PADS SET-ULTRA EFFICIENT (4)

For improved brake efficiency and increased lifespan use the **OPTION** brake pads with springs.

901304
SB M3x4

903308
SFH M3x8

NOTE ORIENTATION

NOTE ORIENTATION

TOP VIEW NOTE ORIENTATION

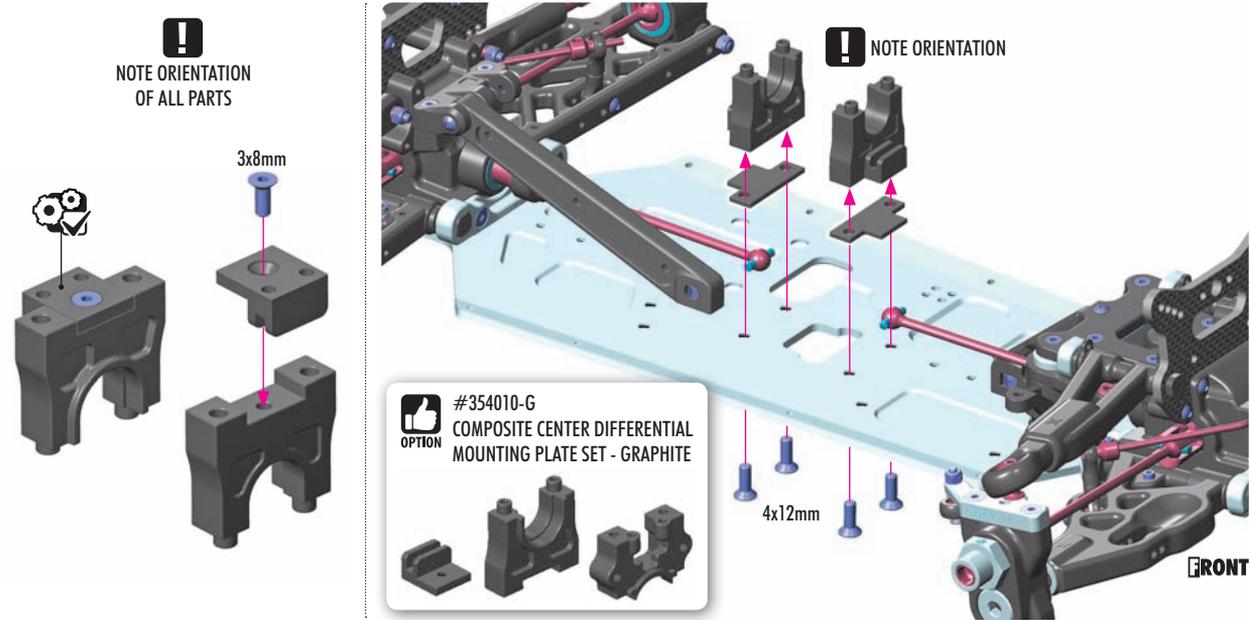
SHORT LONG

1.0mm 2.0mm

8. CENTER DIFF & BRAKE

-  903308
SFH M3x8
-  903412
SFH M4x12

NOTE ORIENTATION OF ALL PARTS



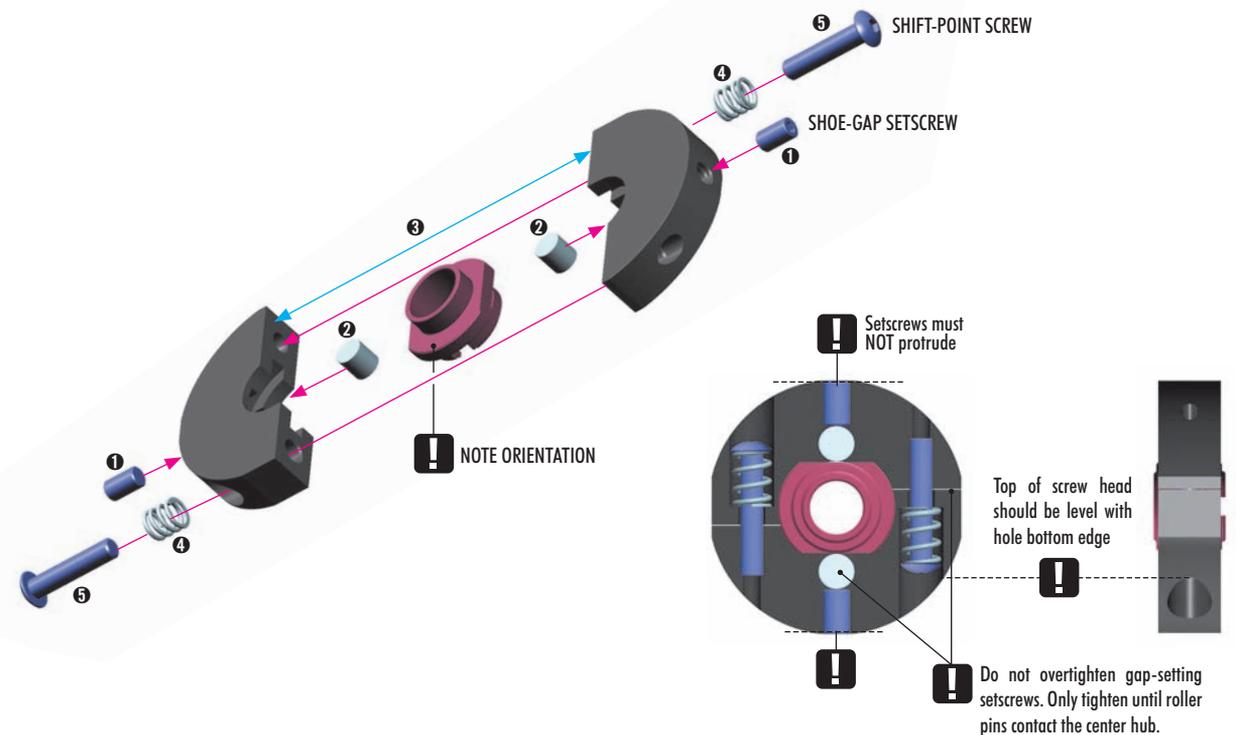
NOTE ORIENTATION

OPTION #354010-G
COMPOSITE CENTER DIFFERENTIAL MOUNTING PLATE SET - GRAPHITE

4x12mm

FRONT

-  901305
SB M3x5
-  902314
SH M3x14
-  983404
RP 4x4



SHIFT-POINT SCREW

SHOE-GAP SETSCREW

NOTE ORIENTATION

Setscrews must NOT protrude

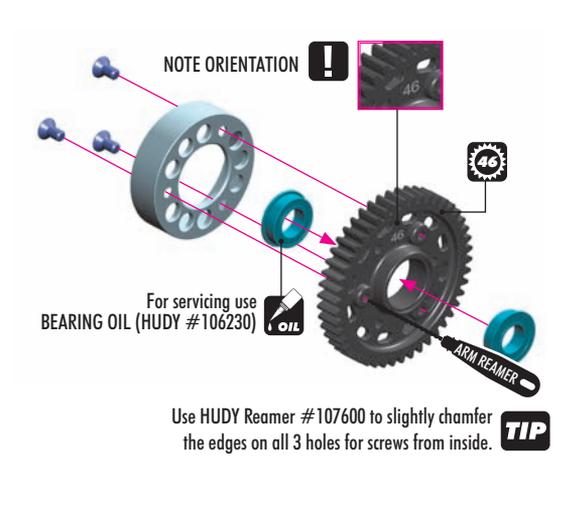
Top of screw head should be level with hole bottom edge

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

 **SET-UP BOOK**
2-SPEED TRANSMISSION

-  950814
BB 8x14x4
-  903306
SFH M3x6

NOTE ORIENTATION

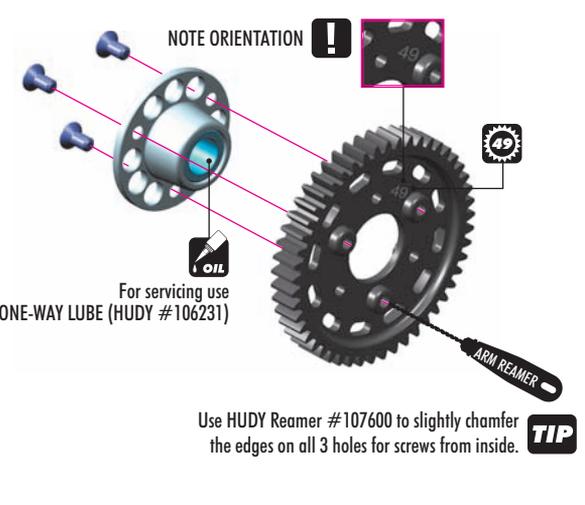


46

For servicing use **BEARING OIL (HUDY #106230)**

TIP Use HUDY Reamer #107600 to slightly chamfer the edges on all 3 holes for screws from inside.

NOTE ORIENTATION



49

For servicing use **ONE-WAY LUBE (HUDY #106231)**

TIP Use HUDY Reamer #107600 to slightly chamfer the edges on all 3 holes for screws from inside.

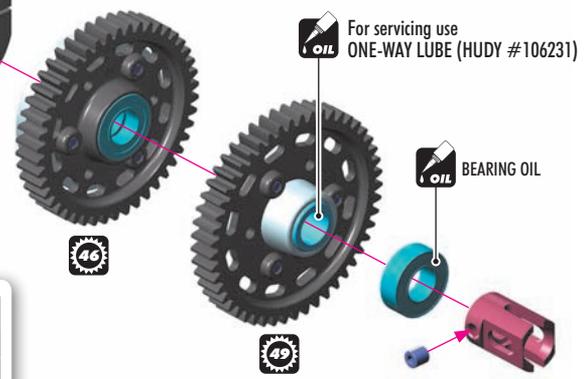
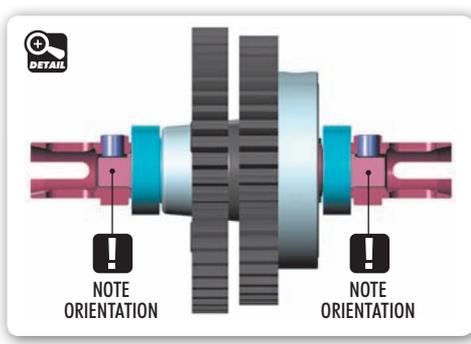
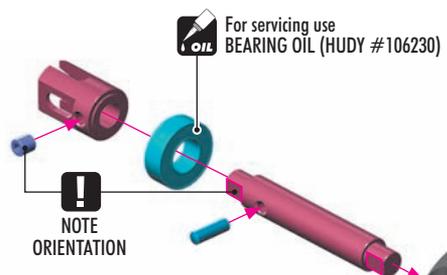
8. CENTER DIFF & BRAKE

GTX8

901404
SB M4x4

940817
BB 8x16x5

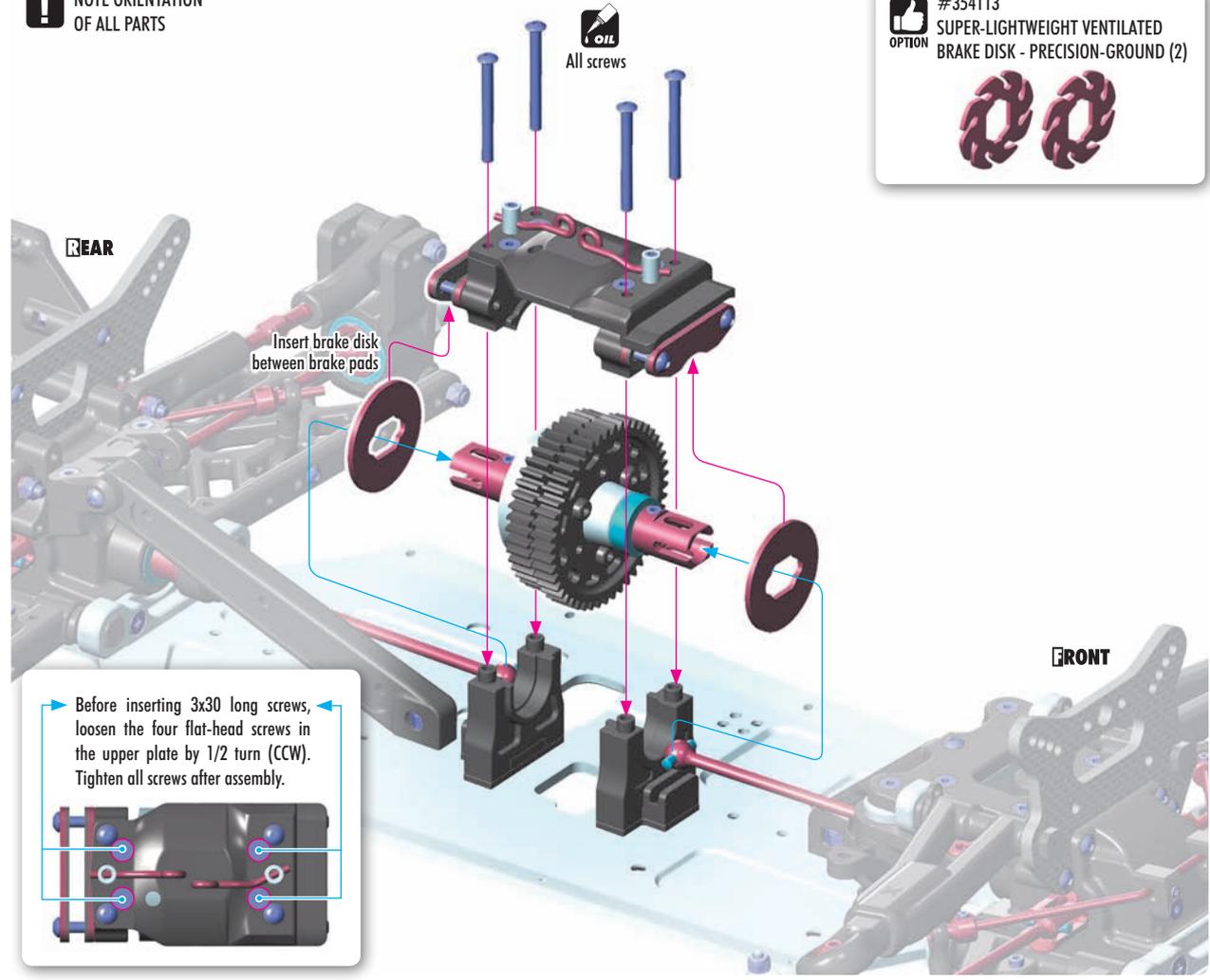
981310
P 3x10



OPTION	COMPOSITE 2-SPEED GEARS				GRAPHITE 2-SPEED GEARS			
	#345545	45T	2ND	OPTION	#345645	45T	2ND	OPTION
	#345546	46T	2ND	INCLUDED	#345646	46T	2ND	OPTION
	#345547	47T	2ND	OPTION	#345647	47T	2ND	OPTION
	#345548	48T	1ST	OPTION	#345648	48T	1ST	OPTION
	#345549	49T	1ST	INCLUDED	#345649	49T	1ST	OPTION
	#345550	50T	1ST	OPTION	#345650	50T	1ST	OPTION

902330
SH M3x30

NOTE ORIENTATION OF ALL PARTS

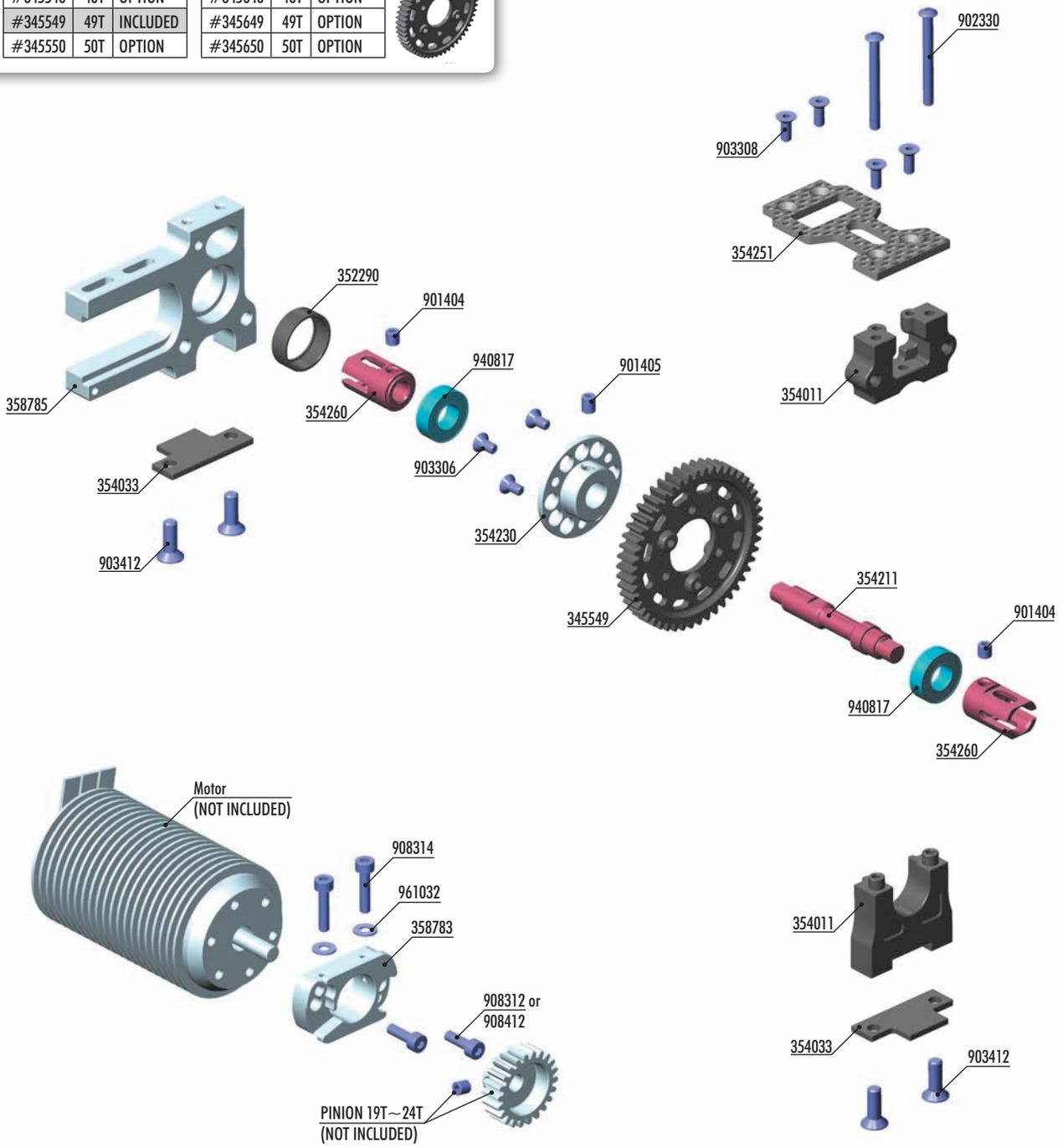


Before inserting 3x30 long screws, loosen the four flat-head screws in the upper plate by 1/2 turn (CCW). Tighten all screws after assembly.



COMPOSITE GEARS		
#345548	48T	OPTION
#345549	49T	INCLUDED
#345550	50T	OPTION

GRAPHITE GEARS		
#345648	48T	OPTION
#345649	49T	OPTION
#345650	50T	OPTION



BAG

08

- 345549 COMPOSITE 2-SPEED GEAR 49T (1st)
- 352290 COMPOSITE BUSHING FOR ALU STEERING BLOCK (4)
- 354011 CENTER DIFF MOUNTING PLATE - SET
- 354033 GT COMPOSITE 2-SPEED HOLDER PLATE (2)
- 354211 GTE SOLID SHAFT - HUDY SPRING STEEL™
- 354230 GTE ALU CENTER SPUR GEAR COLLAR
- 354251 GTE GRAPHITE CENTER UPPER PLATE
- 354260 GT CENTRAL TRANSM. OUTDRIVE ADAPTER - HUDY SPRING STEEL™
- 358783 ALU MOTOR MOUNT PLATE
- 358785 GTE ALU MOTOR MOUNT

- 901404 HEX SCREW SB M4x4 (10)
- 901405 HEX SCREW SB M4x5 (10)

- 902330 HEX SCREW SH M3x30 (10)
- 903306 HEX SCREW SFH M3x6 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 903412 HEX SCREW SFH M4x12 (10)
- 908312 HEX SCREW SOCKET HEAD CAP M3x12 (10)
- 908314 HEX SCREW SOCKET HEAD CAP M3x14 (10)
- 908412 HEX SCREW SOCKET HEAD CAP M4x12 (10)
- 940817 BALL-BEARING 8x16x5 RUBBER SEALED - OIL (2)
- 961032 WASHER S 3.2 (10)

8. CENTER SOLID SHAFT & MOTOR

- 901404
SB M4x4
- 901405
SB M4x5
- 940817
BB 8x16x5

THREAD LOCK 4x4mm

THREAD LOCK 4x5mm

NOTE ORIENTATION

NOTE ORIENTATION

CUTAWAY VIEW

For servicing use BEARING OIL (HUDY #106230)

- 903306
SFH M3x6

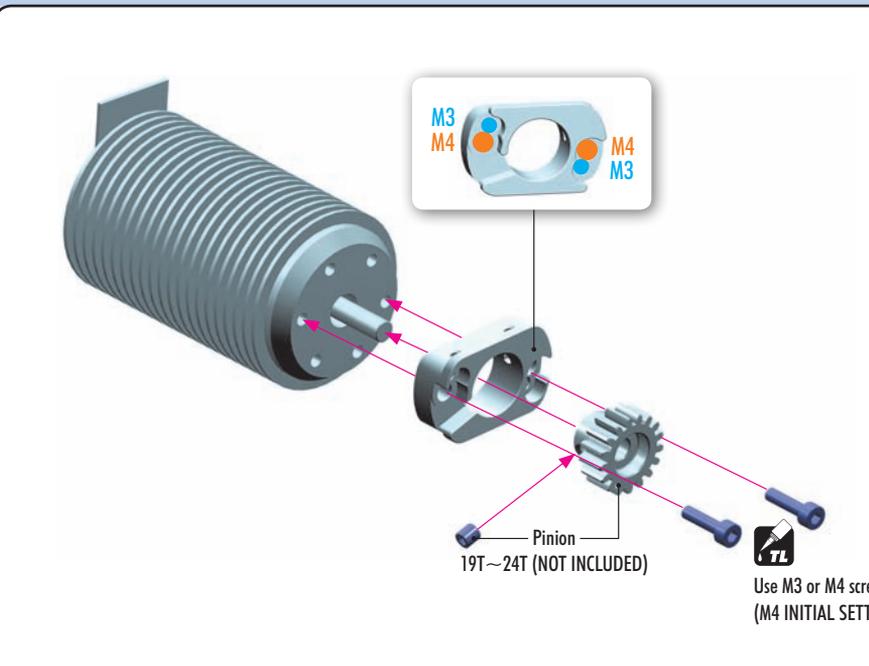
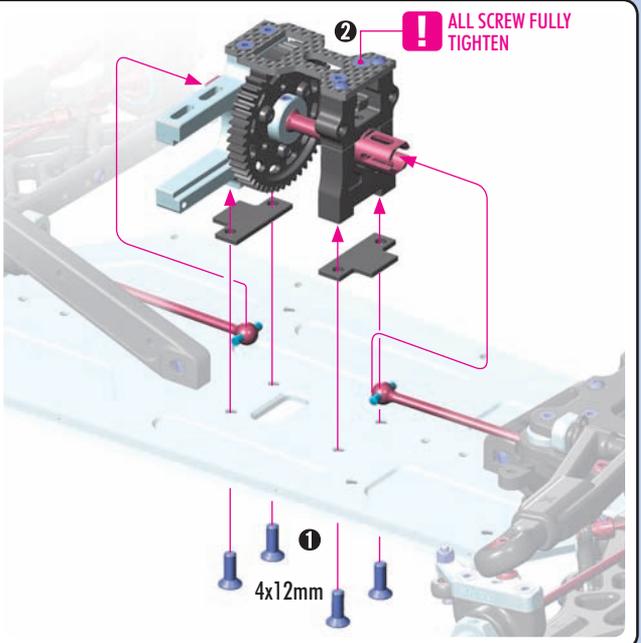
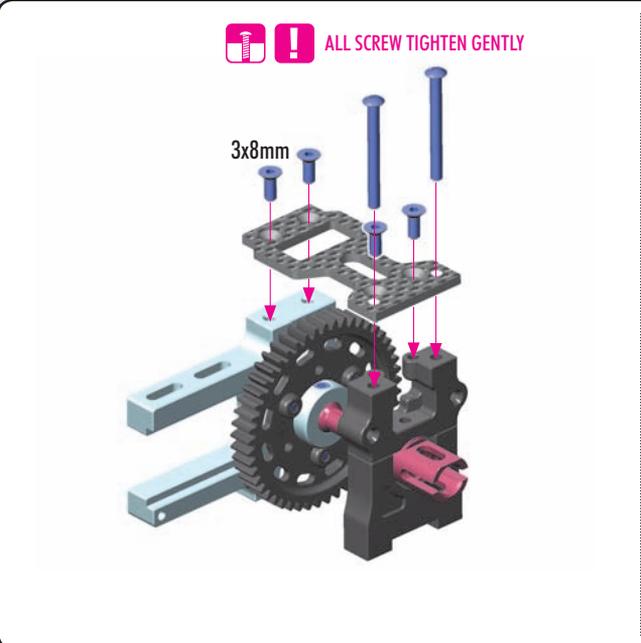
NOTE ORIENTATION

OPTION	COMPOSITE GEARS			GRAPHITE GEARS		
	#345548	48T	OPTION	#345648	48T	OPTION
	#345549	49T	INCLUDED	#345649	49T	OPTION
	#345550	50T	OPTION	#345650	50T	OPTION

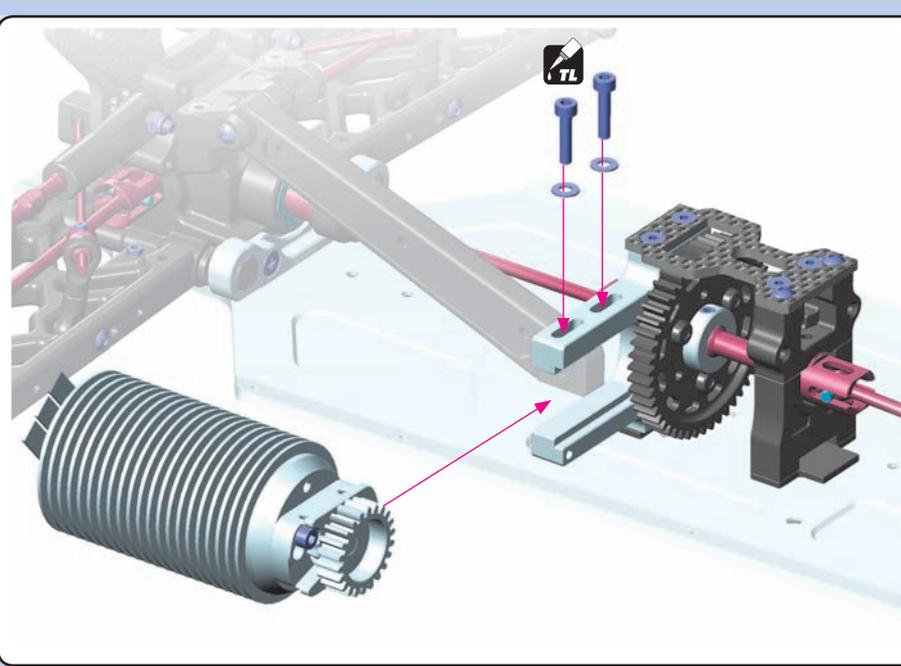
NOTE ORIENTATION

NOTE ORIENTATION

8. CENTER SOLID SHAFT & MOTOR



XRAY PINION GEAR				
OPTION	#355819	19T	ALU	OPTION
	#355820	20T	ALU	OPTION
	#355821	21T	ALU	OPTION
	#355822	22T	ALU	OPTION
	#355823	23T	ALU	OPTION
	#355824	24T	ALU	OPTION



GEAR MESH ADJUSTMENT

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.

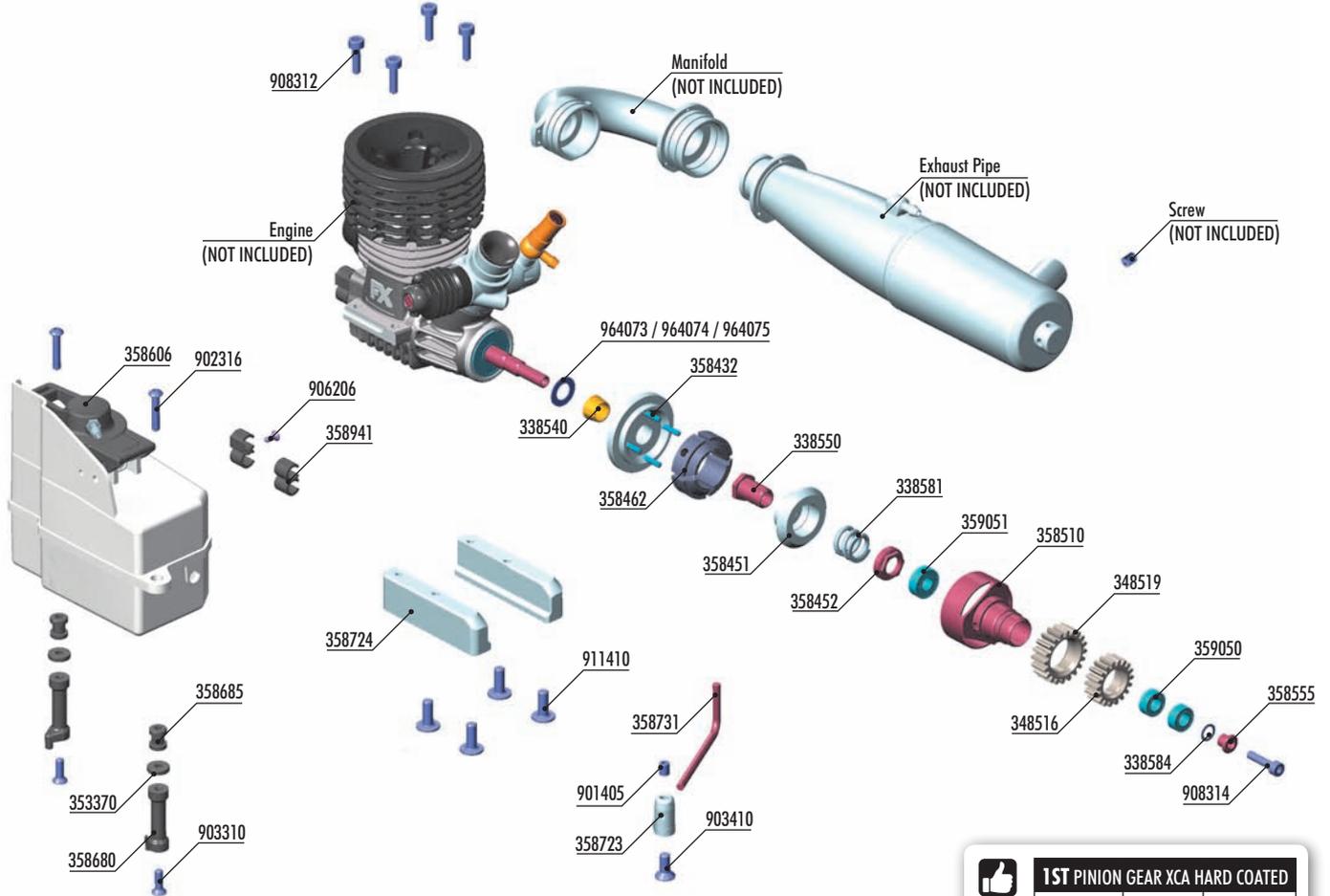
#358709
ALU MONOBLOCK ENGINE MOUNT
OPTION



#358718
ALU STAND FOR ENGINE MOUNT
(FX, NOVAROSSİ, MAX, SIRIO)
OPTION



#358719
ALU STAND FOR ENGINE MOUNT
(PICCO, REDS, ORION, LRP, OS, U. RACING)
OPTION



#351159 CHASSIS SIDE GUARDS L+R
#351159-S CHASSIS SIDE GUARDS L+R - SOFT
OPTION



#353250
GRAPHITE BRACE
FOR CHASSIS SIDE
GUARDS - SET
OPTION



#358605
FUEL TANK 125CC WITH
FLOATING FILTER
OPTION



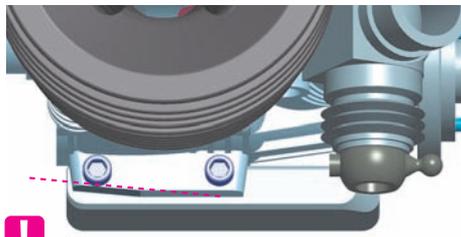
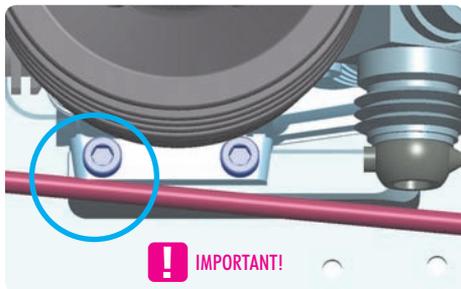
1ST PINION GEAR XCA HARD COATED		
#348515	15T	OPTION
#348516	16T	INCLUDED
#348517	17T	OPTION
#348518	18T	OPTION
2ST PINION GEAR XCA HARD COATED		
#348519	19T	INCLUDED
#348520	20T	OPTION
#348521	21T	OPTION

BAG

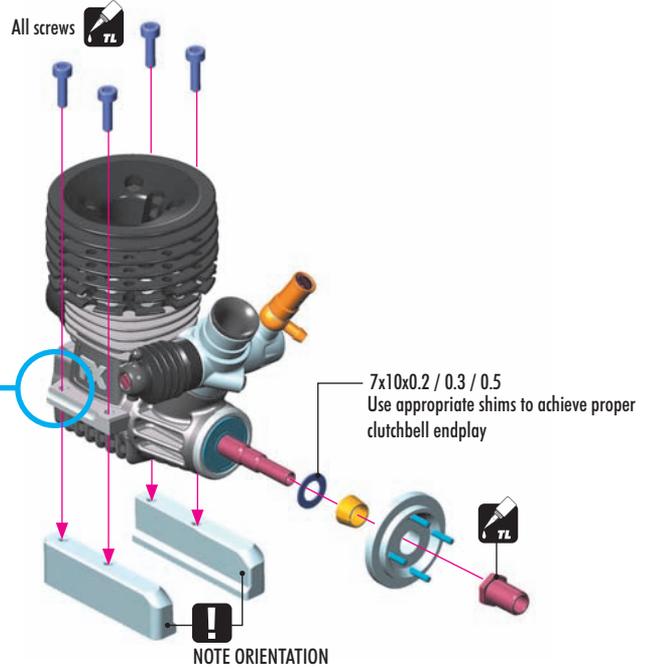
09

- 338540 FLYWHEEL COLLAR 7MM
- 338550 FLYWHEEL NUT - HUDY SPRING STEEL™
- 338581 CLUTCH SPRING - MEDIUM - V2
- 338584 SHIM 5x7x0.2 (10)
- 348516 XCA ALU 7075 T6 HARD COATED PINION GEAR - 16T (1ST)
- 348519 XCA ALU 7075 T6 HARD COATED PINION GEAR - 19T (2ND)
- 353370 SET OF COMPOSITE REAR HUB CARRIER SHIMS
- 358432 GT ALU 4-SHOE FLYWHEEL
- 358451 GT ALU 4-SHOE CLUTCH PRESSURE SLEEVE
- 358452 GT 4-SHOE FLYWHEEL NUT
- 358462 GT COMPOSITE CLUTCH 4-SHOE - GRAPHITE
- 358510 GT 2-SPEED CLUTCH BELL - LIGHTWEIGHT
- 358555 GT CLUTCH BELL BUSHING - HUDY SPRING STEEL™
- 358606 FUEL TANK 150CC WITH FLOATING FILTER
- 358680 FUEL TANK MOUNTING POST (2)
- 358685 FUEL TANK MOUNTING GROMMET (4)
- 358723 EXHAUST WIRE MOUNT SET
- 358724 ALU ENGINE MOUNT - CNC MACHINED (L+R)

- 358731 EXHAUST MOUNTING WIRE - LONG
- 358941 COMPOSITE TUBING HOLDER FOR FUEL TANK (2)
- 359050 BALL-BEARING 5x10x4 STEEL SEALED - GREASE (2)
- 359051 BALL-BEARING 5x12x4 STEEL SEALED - GREASE (2)
- 901405 HEX SCREW SB M4x5 (10)
- 902316 HEX SCREW SH M3x16 (10)
- 903310 HEX SCREW SFH M3x10 (10)
- 903410 HEX SCREW SFH M4x10 (10)
- 906206 SCREW PHILLIPS FH 2.2x6 (10)
- 908312 HEX SCREW (CAP HEAD) 3x12 (10)
- 908314 HEX SCREW (CAP HEAD) 3x14 (10)
- 911410 HEX SCREW FLANGED SH M4x10 (10)
- 964073 WASHER S 7x10x0.2 (10)
- 964074 WASHER S 7x10x0.3 (10)
- 964075 WASHER S 7x10x0.5 (10)



When installing the engine, first check that the drive shaft does not touch the engine. If it does, remove some material from the engine mount as shown to make some room between engine and shaft.



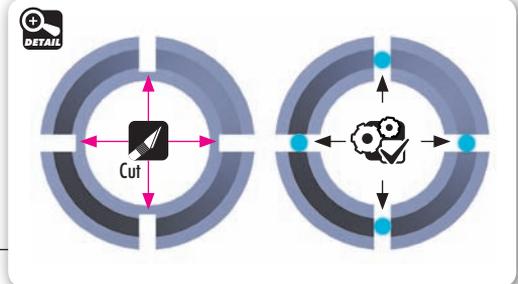
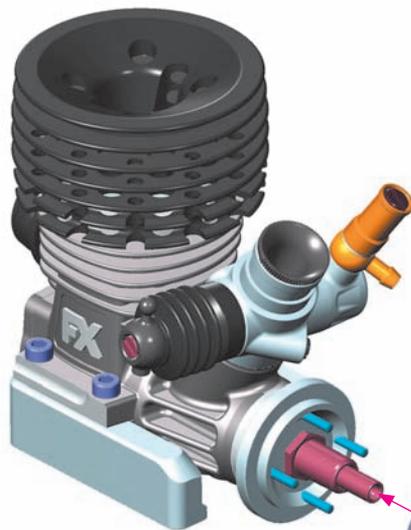
#358709
ALU MONOBLOCK ENGINE MOUNT



#358718
ALU STAND FOR ENGINE MOUNT
(FX, NOVAROSS, MAX, SIRIO)

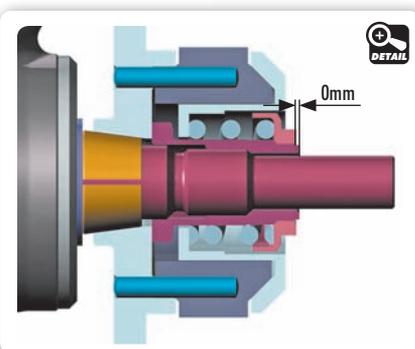


#358719
ALU STAND FOR ENGINE MOUNT
(PICCO, REDS, ORION, LRP, OS, U. RACING)

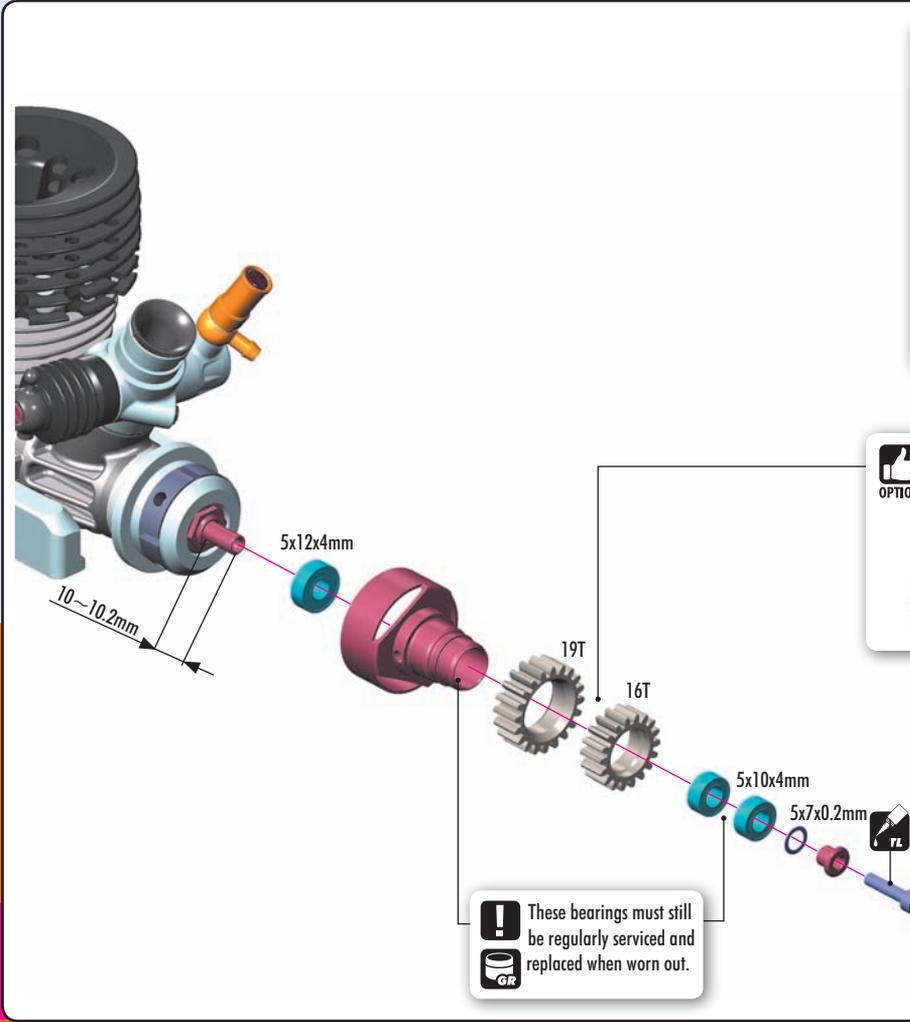


! NOTE ORIENTATION

! NOTE ORIENTATION



-  338584
S 5x7x0.2
-  359050
BB 5x10x4
-  359051
BB 5x12x4
-  908314
SCH M3x14



1ST PINION GEAR XCA HARD COATED		
 #348515	15T	OPTION
 #348516	16T	INCLUDED
 #348517	17T	OPTION
 #348518	18T	OPTION

2ST PINION GEAR XCA HARD COATED		
 #348519	19T	INCLUDED
 #348520	20T	OPTION
 #348521	21T	OPTION

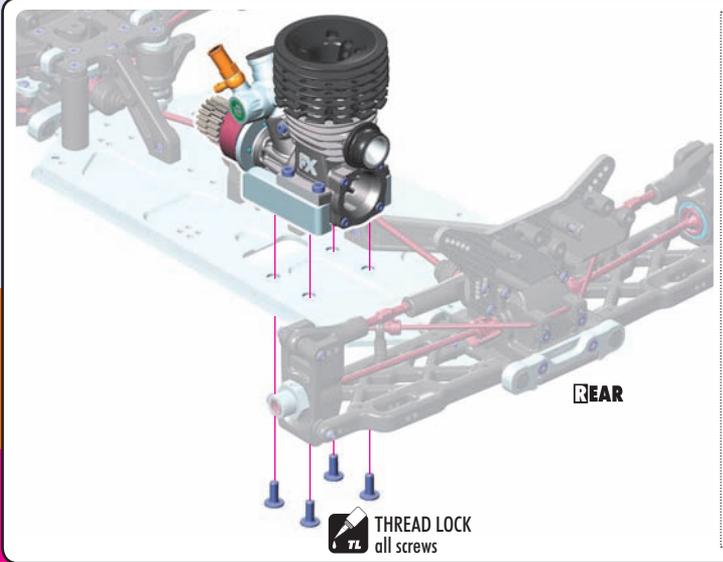
TIP TO TIGHTEN THE 16T OR 19T PINION GEAR USE THE OPTIONAL #349901 XRAY PINION TOOL (19-21T / 16-18T).



! These bearings must still be regularly serviced and replaced when worn out.

SET-UP BOOK
CLUTCH SPRINGS
CLUTCH SHOE

-  911410
SHF M4x10



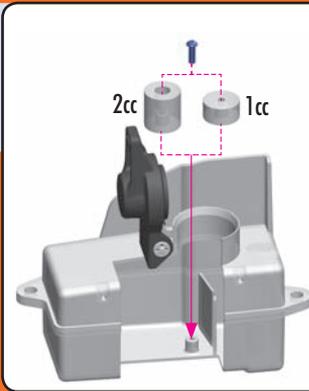
GEAR MESH

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.

SET-UP BOOK
GEARING
GEAR MESH ADJ.

-  907258
SP 2.5x8



The fuel tank has the larger fuel volume and includes OPTIONAL tank inserts for decreasing the volume of the tank. Using the inserts allows you to adjust the volume of fuel inside the tank; this works in conjunction with variables such as fuel filter capacity and/or length of fuel line to ensure you have the legal fuel volume limit for racing.

Tube holders are easily connected to the fuel tank by screws. Using screws is much more secure than using glue to attach the holders to the fuel tank.

2CC FUEL TANK INSERT

The larger insert decreases the fuel tank volume by 2cc, and is recommended for use when the fuel filter is used.



NOTE ORIENTATION **!**

1CC FUEL TANK INSERT

The smaller insert decreases the fuel tank volume by 1cc.



NOTE ORIENTATION **!**

NOTE: The fuel tank insert can be easily mounted to the bottom of the fuel tank using the provided screw, when the fuel tank cap is opened fully.



353370
SHIM 3x9x2



902316
SH M3x16



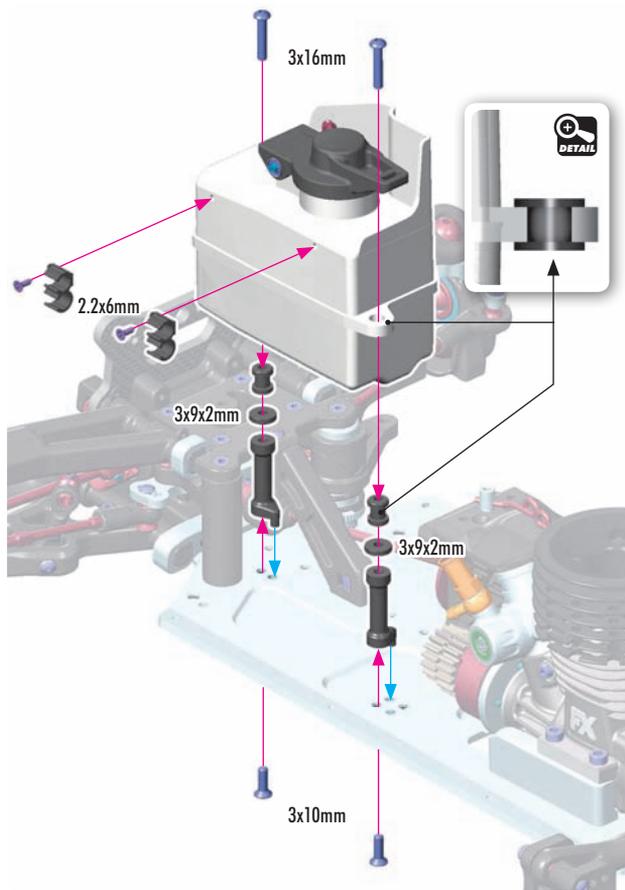
903310
SFH M3x10



906206
SFP 2.2x6

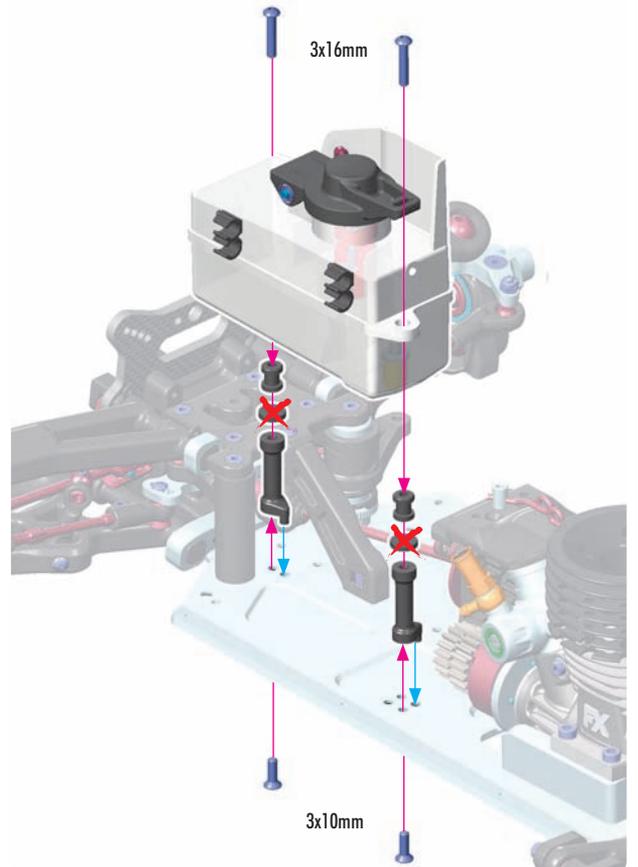
ALTERNATIVE 150CC FUEL TANK

INITIAL SETTING



ALTERNATIVE 125CC FUEL TANK

#358605
FUEL TANK 125CC WITH FLOATING FILTER
OPTION



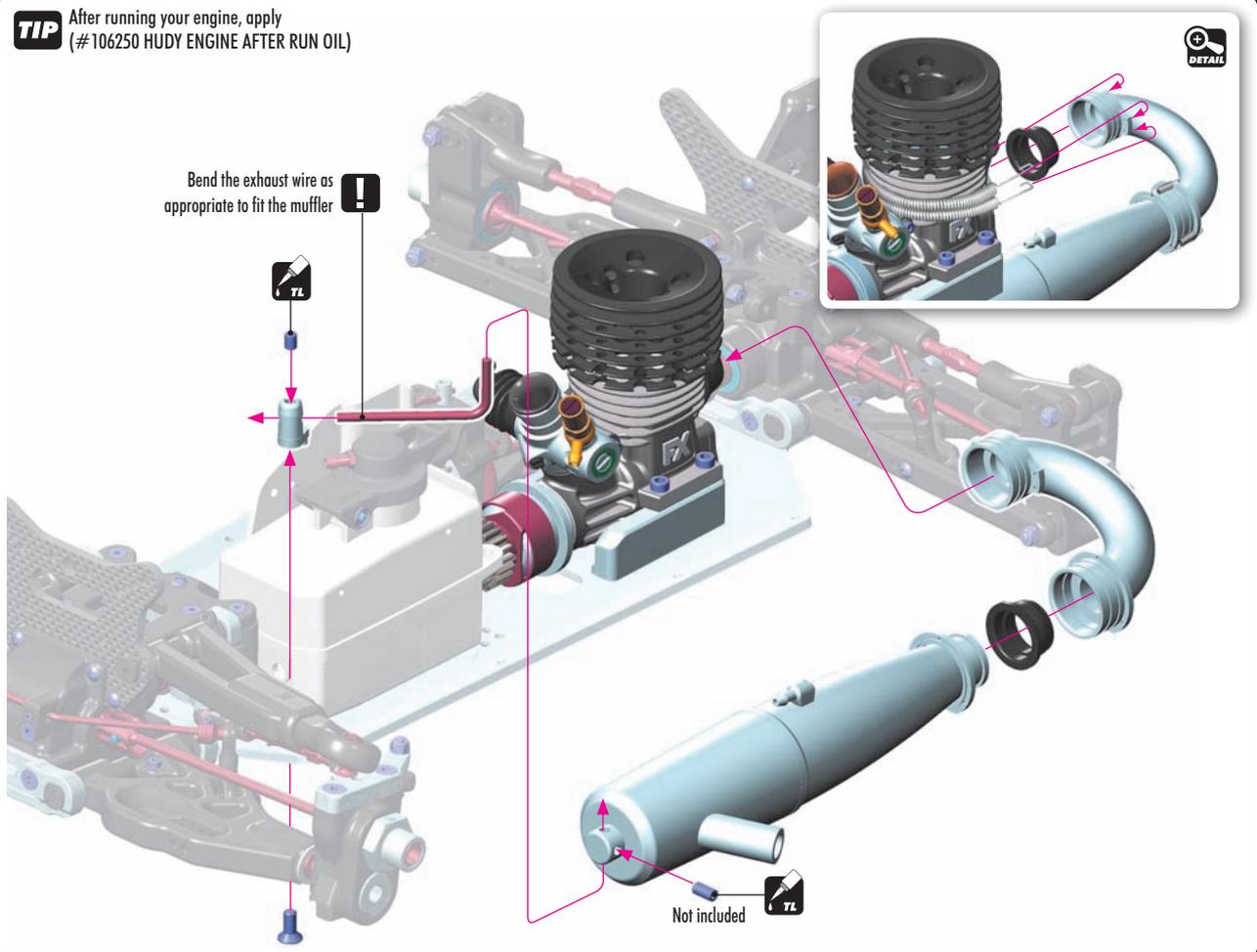
901405
SB M4x5

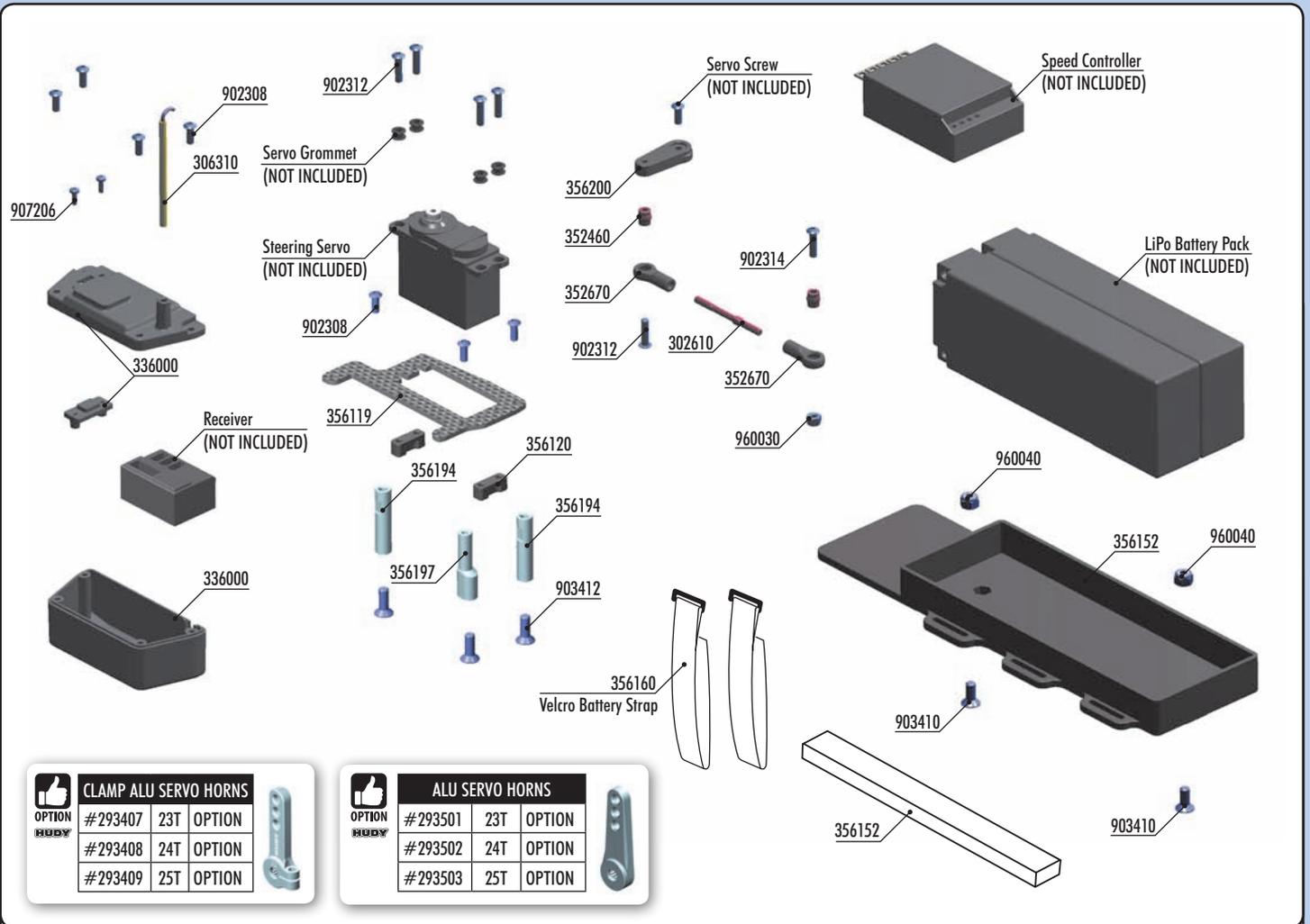


903410
SFH M4x10

TIP After running your engine, apply (#106250 HUDY ENGINE AFTER RUN OIL)

Bend the exhaust wire as appropriate to fit the muffler





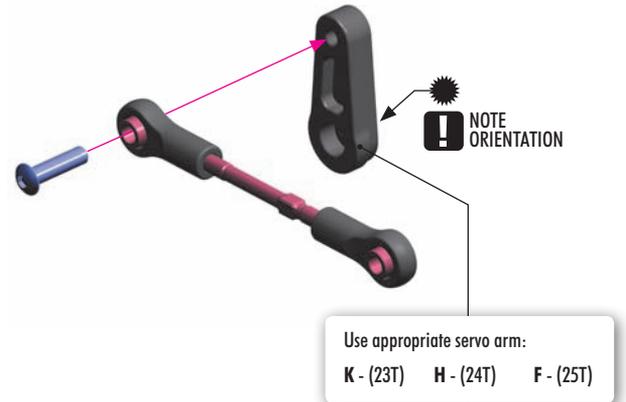
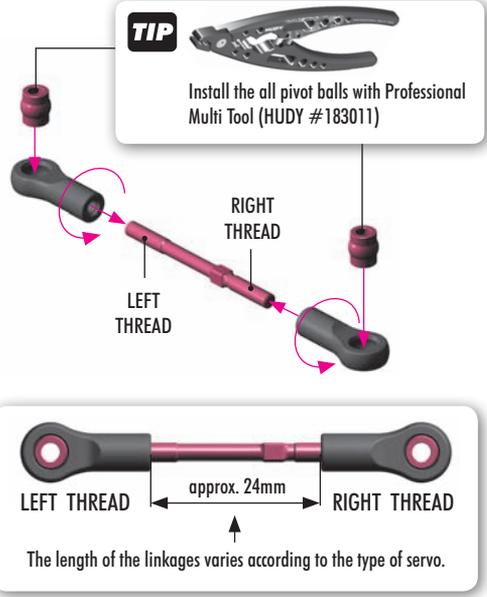
CLAMP ALU SERVO HORNS			
OPTION	#293407	23T	OPTION
HUDY	#293408	24T	OPTION
	#293409	25T	OPTION

ALU SERVO HORNS			
OPTION	#293501	23T	OPTION
HUDY	#293502	24T	OPTION
	#293503	25T	OPTION



- 302610 ADJ. TURNBUCKLE L/R 40 MM - HUDY SPRING STEEL (2)
- 306310 ANTENNA TUBE (2)
- 336000 COMPOSITE RECEIVER CASE - V2
- 336060 RECEIVER SWITCH - SET (OPTION)
- 352460 PIVOT BALL 5.8 (10)
- 352670 SERVO BALL JOINT 5.8MM (4)
- 356119 GRAPHITE RECEIVER CASE TOP PLATE
- 356120 STEERING SERVO MOUNT - SET
- 356152 GTX8E'16 COMPOSITE BATTERY PLATE
- 356160 VELCRO BATTERY STRAP 20x300MM (2)
- 356194 ALU MOUNT FOR RECEIVER BOX
- 356197 ALU ECCENTRIC MOUNT FOR RECEIVER BOX
- 356200 BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET

- 389135 CONNECTING CABLE RECEIVER/BATT. PACK (OPTION)
- 902308 HEX SCREW SH M3x8 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 902314 HEX SCREW SH M3x14 (10)
- 903410 HEX SCREW SFH M4x10 (10)
- 903412 HEX SCREW SFH M4x12 (10)
- 907206 SCREW PHILLIPS 2x6 (10)
- 960030 NUT M3 (10)
- 960040 NUT M4 (10)

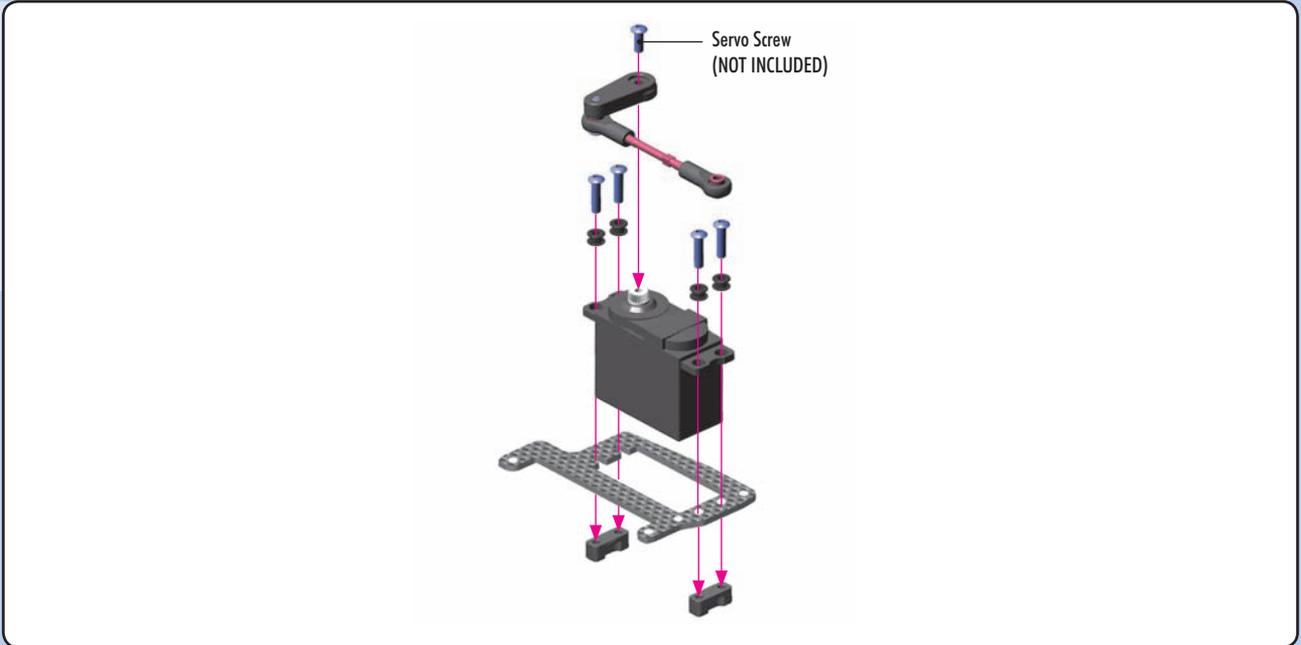


CLAMP ALU SERVO HORNS			
OPTION	#293407	23T	OPTION
HUDY	#293408	24T	OPTION
	#293409	25T	OPTION

ALU SERVO HORNS			
OPTION	#293501	23T	OPTION
HUDY	#293502	24T	OPTION
	#293503	25T	OPTION



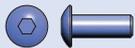
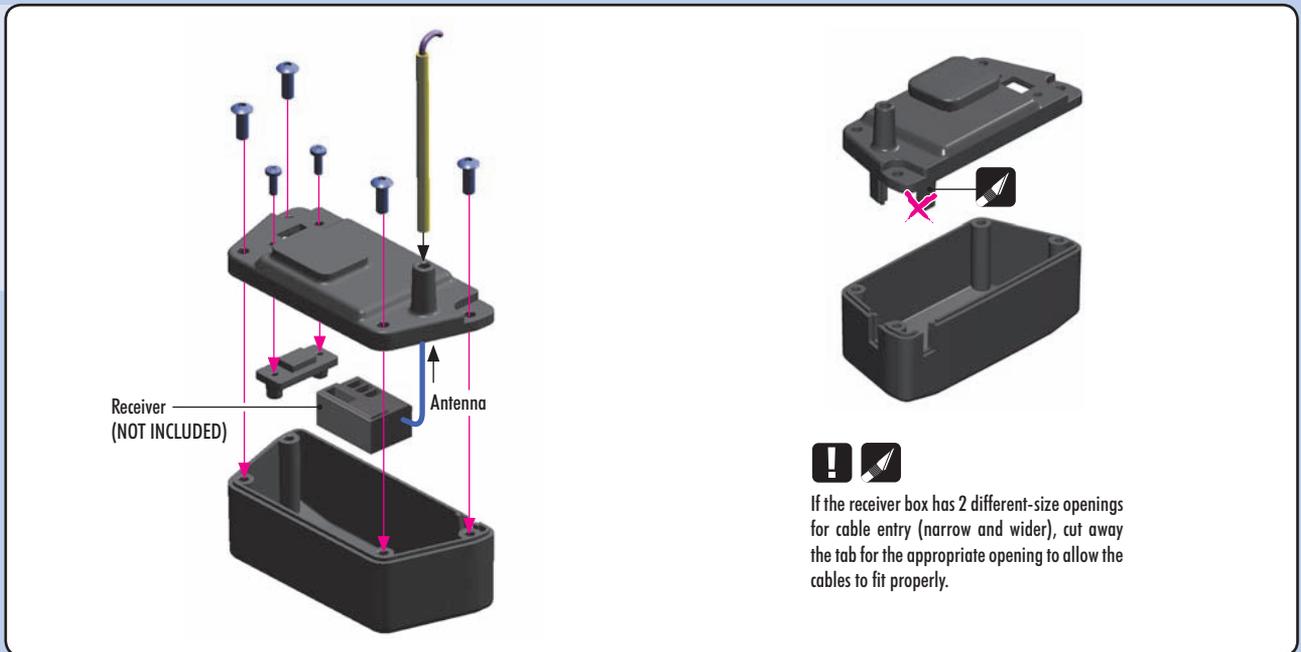
902312
SH M3x12



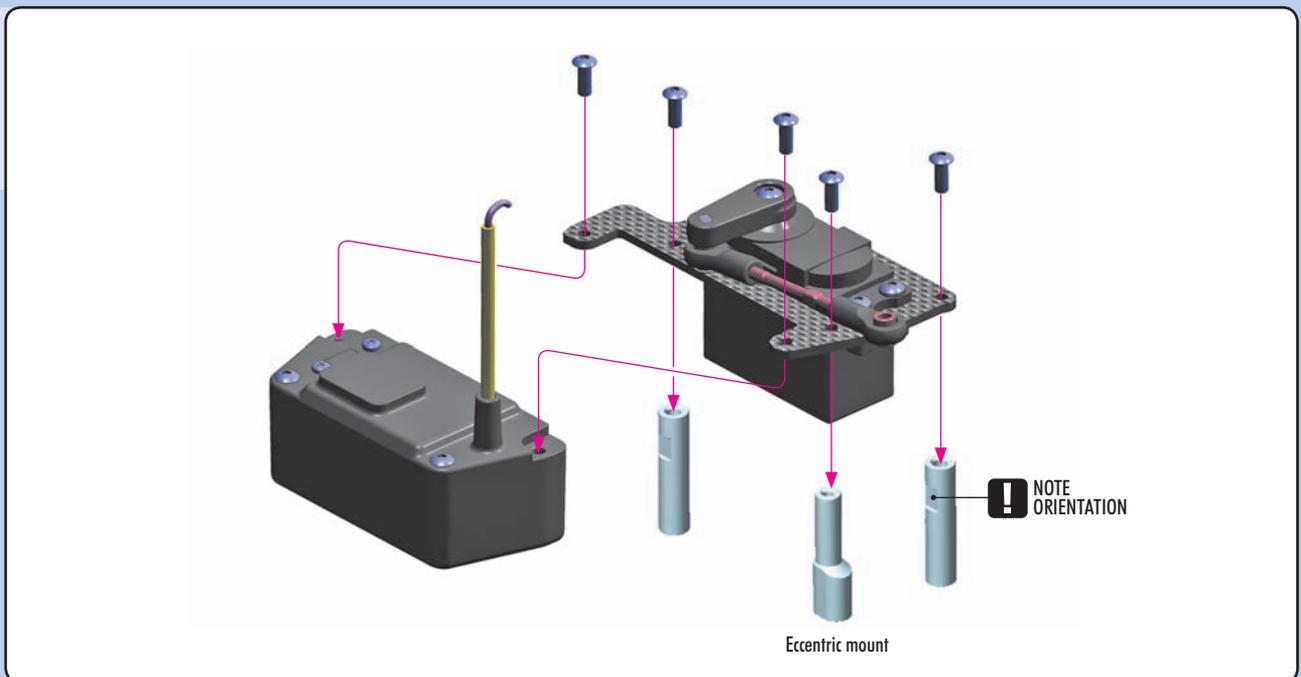
902308
SH M3x8



907206
2x6

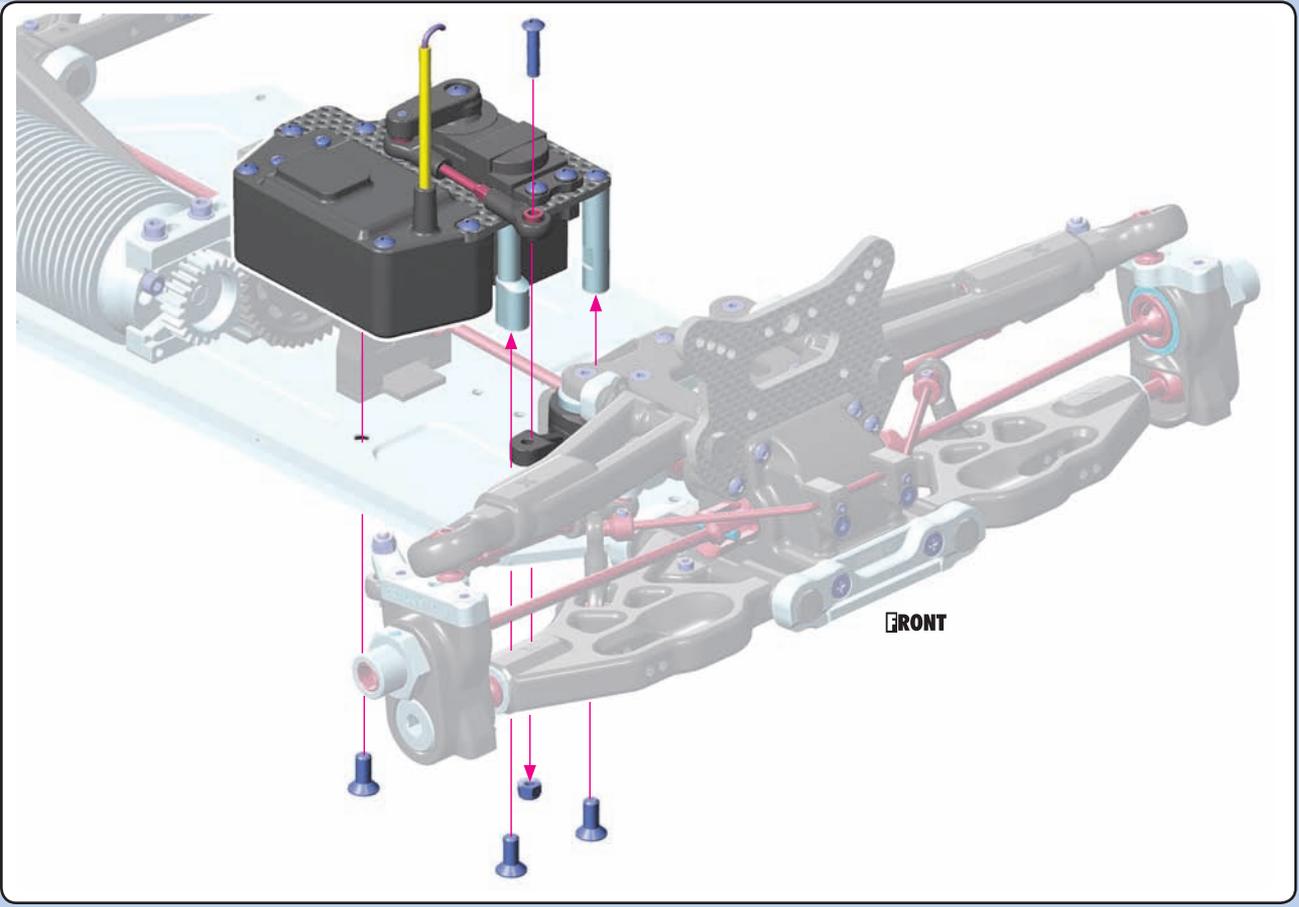


902308
SH M3x8

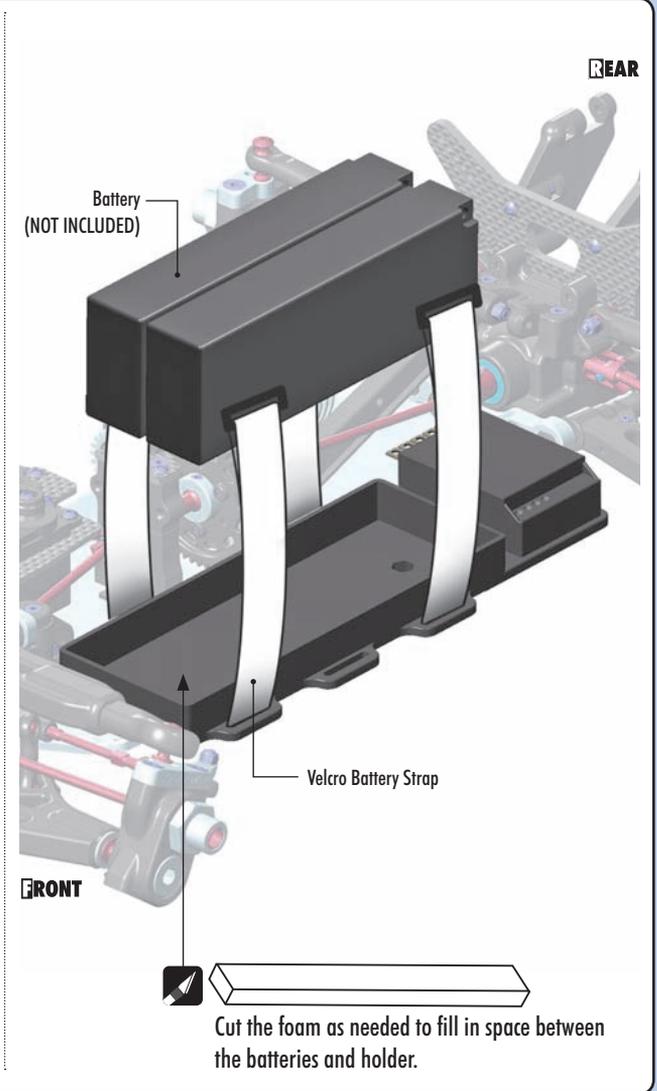
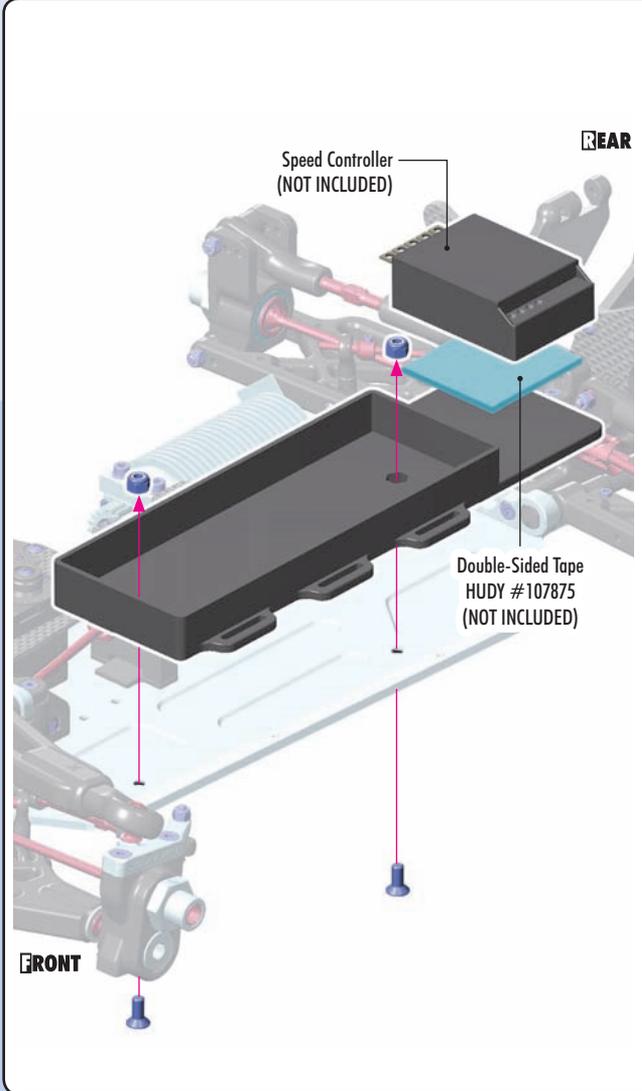


10. RADIO CASE

-  902314
SH M3x14
-  903412
SFH M4x12
-  960030
N M3



-  903410
SFH M4x10
-  960040
N M4



Labels in diagram: 306310, 902310, 356004, 902312, 902306 (NOT INCLUDED), Personal transponder (NOT INCLUDED), Servo Screw (NOT INCLUDED), 356200, 902314, 352460, 352460, 352670, 902312, 302611, 960030, 902314, Servo Grommet (NOT INCLUDED), Receiver (NOT INCLUDED), 356004, Receiver battery (NOT INCLUDED), Steering Servo (NOT INCLUDED), 356120, 336120, 356120, Servo Grommet (NOT INCLUDED), Throttle Servo (NOT INCLUDED), 902314, 356004, 903412, 903412, 903412.

RADIO CASE - SET			
#356004	SOFT	INCLUDED	
#356003	HARD	OPTION	

	302611	ADJ. TURNBUCKLE L/R 35 MM - HUDY SPRING STEEL™ (2)	356200	BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET
	306310	ANTENNA TUBE (2)	389135	CONNECTING CABLE RECEIVER/BATT. PACK (OPTION)
	336120	COMPOSITE STEERING SERVO HOLDER - SET - V2	902306	HEX SCREW SH M3x6 (10) (OPTION)
	352460	PIVOT BALL 5.8 (10)	902310	HEX SCREW SH M3x10 (10)
	352670	SERVO BALL JOINT 5.8MM (4)	902312	HEX SCREW SH M3x12 (10)
	356004	COMPOSITE RADIO CASE SET - SOFT	902314	HEX SCREW SH M3x14 (10)
	356050	BATTERY CABLE WITH SWITCH (OPTION)	903412	HEX SCREW SFH M4x12 (10)
	356120	STEERING SERVO MOUNT - SET	960030	NUT M3 (10)

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

RIGHT THREAD
LEFT THREAD

RIGHT THREAD approx. 19.5mm LEFT THREAD

The length of the linkages varies according to the type of servo.

Use appropriate servo arm:

- K - (23T)
- H - (24T)
- F - (25T)

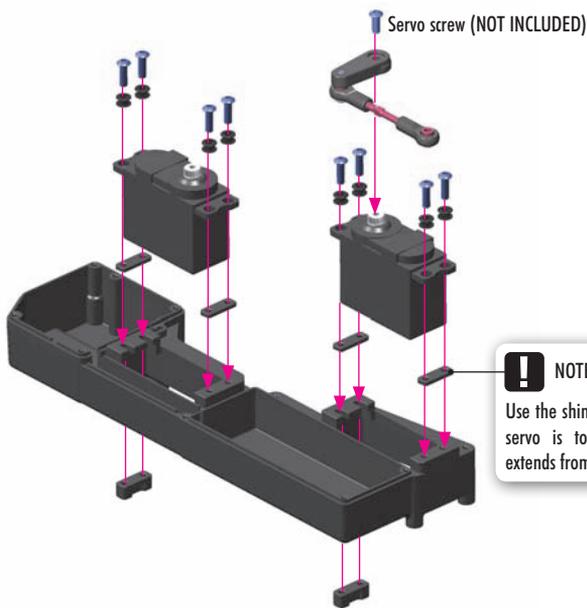
NOTE ORIENTATION

CLAMP ALU SERVO HORNS			
#293407	23T	OPTION	
#293408	24T	OPTION	
#293409	25T	OPTION	

ALU SERVO HORNS			
#293501	23T	OPTION	
#293502	24T	OPTION	
#293503	25T	OPTION	

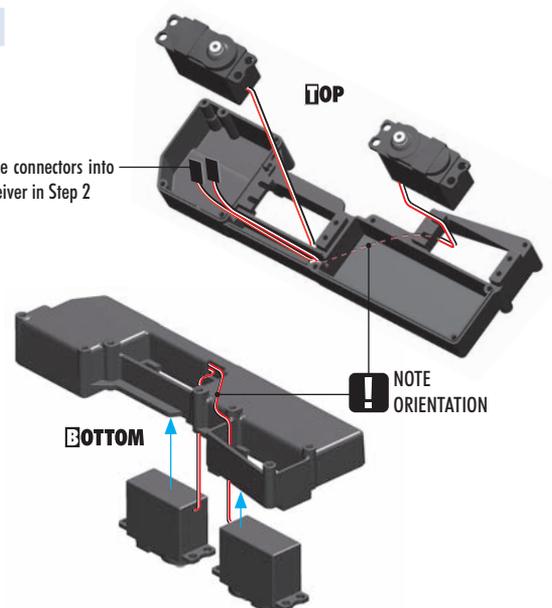


902314
SH M3x14



step 1

Plug the connectors into the receiver in Step 2



902310
SH M3x10

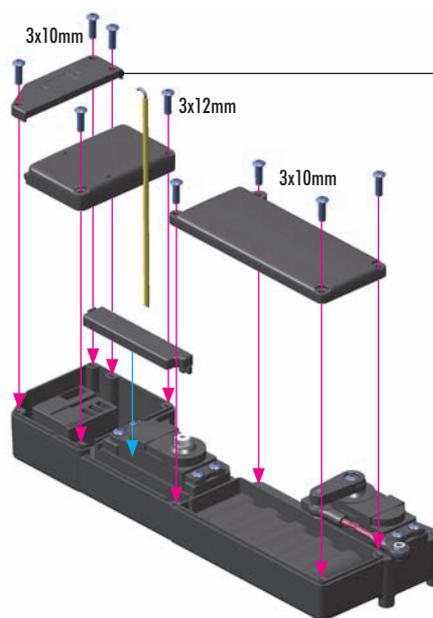
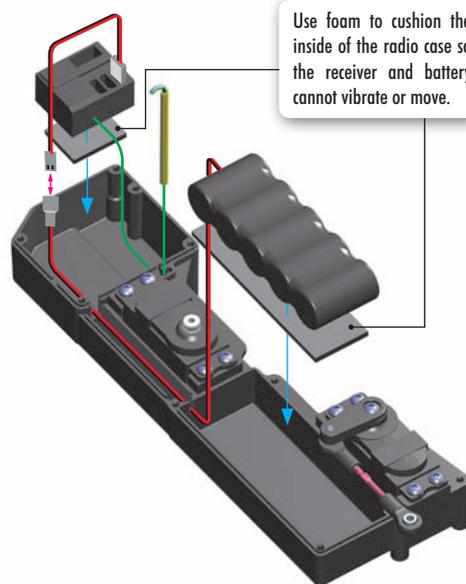


902312
SH M3x12



907206
SP M2x6

step 2



When receiver switch is used, use hobby knife to CAREFULLY remove the material from the cover and mount the switch.



902314
SH M3x14



903412
SFH M4x12



960030
N M3

Personal transponder (NOT INCLUDED)
#902306 Screws (NOT INCLUDED)

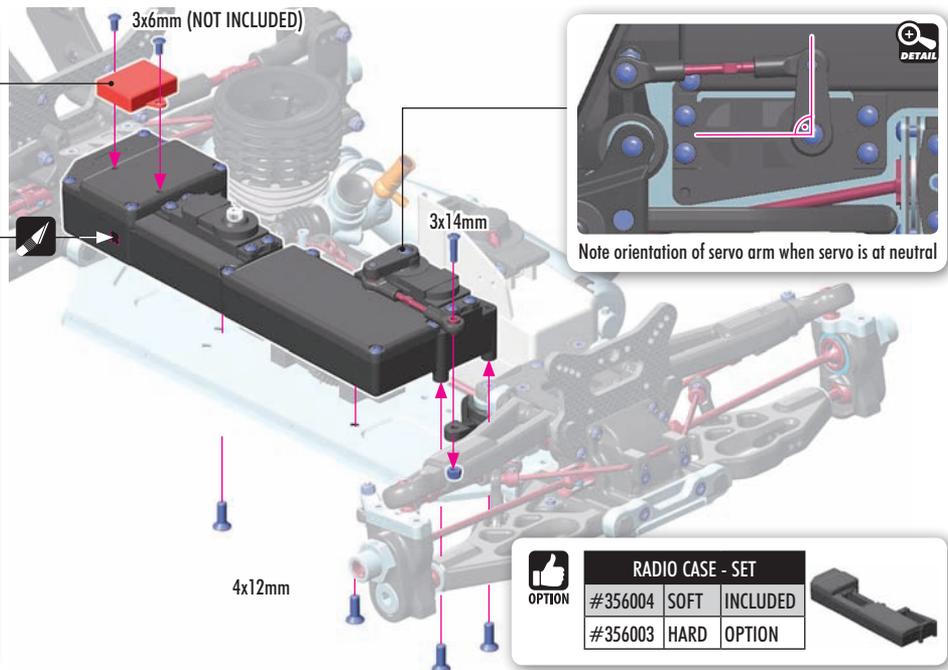
Personal transponder can be placed on the top of the radio box or inside of the radio box

ALTERNATIVE 1

When the transponder is placed at the top of the radio box, cut out some material from the radio box in order to allow the transponder wire to come inside.

ALTERNATIVE 2

Place the transponder inside of the radio box by using double-sided tape.

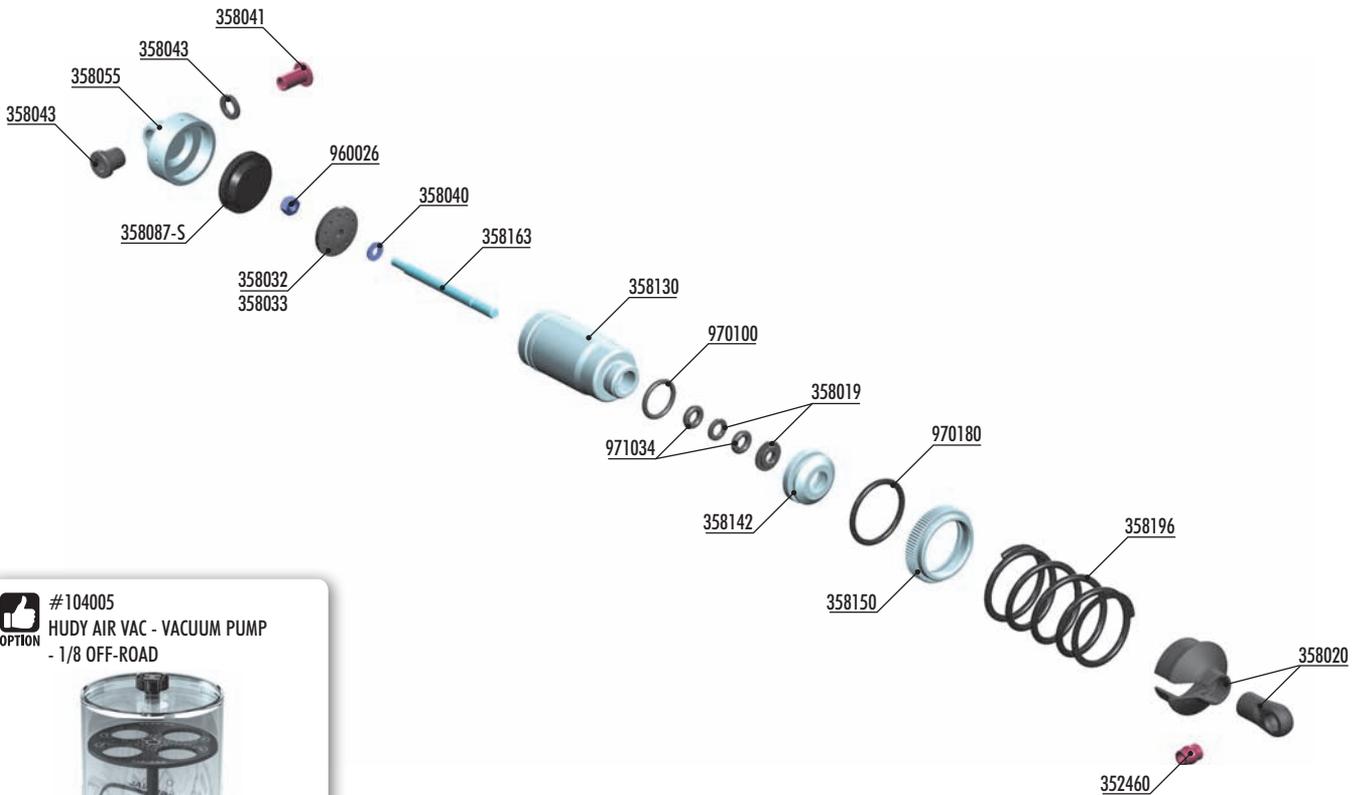
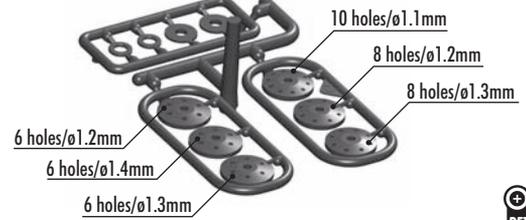


RADIO CASE - SET

#356004	SOFT	INCLUDED
#356003	HARD	OPTION



PISTONS



#104005
HUDY AIR VAC - VACUUM PUMP
- 1/8 OFF-ROAD



#358027 PISTON 5-HOLE (1.5mm) & 2-HOLE (1.0mm) (4)
#358028 PISTON 6-HOLE (1.3mm) & 2-HOLE (1.1mm) (4)
#308029 PISTON 6-HOLE (1.4mm) & 2-HOLE (1.1mm) (4)
#358030 PISTON 8-HOLE (1.2mm) & 2-HOLE (1.2mm) (4)
#358031 PISTON 8-HOLE (1.3mm) & 2-HOLE (1.2mm) (4)



SHOCK RUBBER MEMBRANE CELL

#	SOFT	INCLUDED
#358087-S	SOFT	INCLUDED
#358087-M	MEDIUM	OPTION



BAG



- 352460 PIVOT BALL 5.8 - V3 (10)
- 358019 COMPOSITE SET OF SHIMS FOR SHOCKS - V2 (2)
- 358020 COMPOSITE SHOCK PARTS
- 358032 SHOCK PISTON SET 8-HOLE (1.2; 1.3) 10-H. (1.1MM) - DELRIN - V2
- 358033 COMPOSITE SHOCK 6-HOLE PISTON SET (1.2; 1.3; 1.4MM) - DELRIN - V2
- 358040 HARDENED SHOCK SHIMS (4)
- 358041 STEEL SHOCK BUSHING (2)
- 358043 COMPOSITE SHOCK BUSHING & SHIM (2+2)
- 358055 ALU SHOCK CAP NUT - BLACK COATED (2)
- 358087-S SHOCK RUBBER MEMBRANE CELL - SOFT (4)
- 358130 GT ALU SHOCK BODY - HARD COATED (2)
- 358142 ALU SHOCK BODY NUT FOR SHOCK BOOT (2)

- 358150 ALU SHOCK BODY ADJ. NUT (2)
- 358163 GT SHOCK SHAFT (2)
- 358196 XRAY GT SPRING - 3 DOTS (2)
- 960026 NUT M2.5 - SHORT (10)
- 970100 O-RING 10 x 1.5 (10)
- 970180 O-RING 18 x 1.8 (10)
- 971034 SILICONE O-RING 3.5x2 (10)

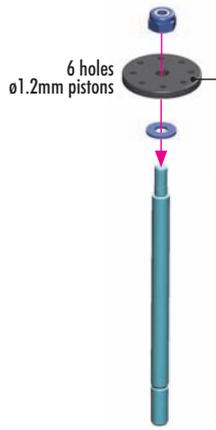


358040
52.5x6x0.5



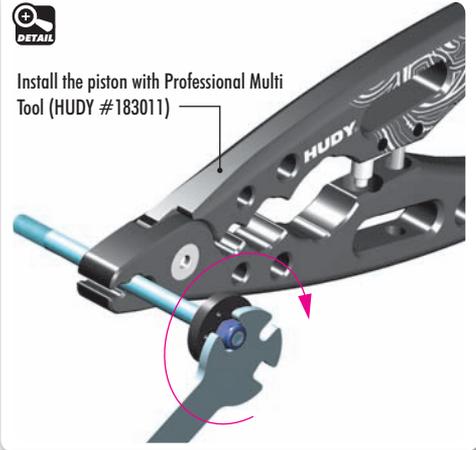
960026
N M2.5

4x



DETAIL

Install the piston with Professional Multi Tool (HUDY #183011)



DETAIL



INCORRECT



DO NOT OVERTIGHTEN

The self-locking nut is overtightened, causing distortion of the piston. This will negatively affect the free movement of the piston in the shock body.



CORRECT



TIGHTEN GENTLY

The self-locking nut is gently tightened. The piston remains undistorted and fits inside the shock body perfectly, ensuring smooth movement of the piston.

SET-UP BOOK
SHOCK DAMPING
SHOCK PISTONS



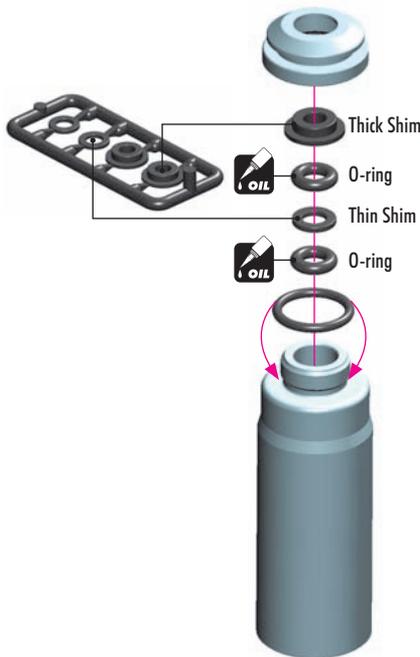
970100
0 10x1.5



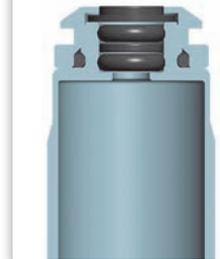
971034
0 3.4x2

4x

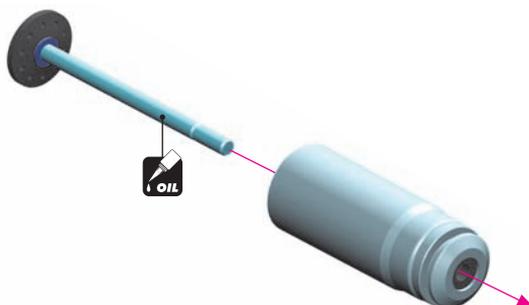
There are two different thickness shims, use them as shown. Use the same procedure when building both front and rear shocks.



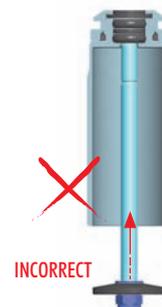
DETAIL



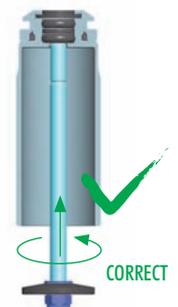
4x



EXTREMELY IMPORTANT



INCORRECT



CORRECT

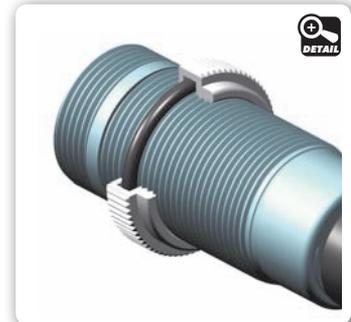
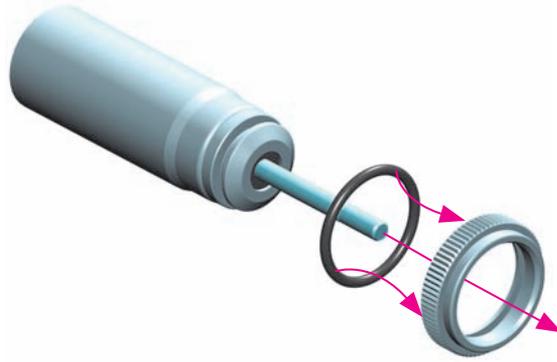
Do not push the shock rod straight through the lower shock body assembly; O-ring damage may result.

Twist the shock rod through the lower shock body assembly.



970180
0 18x1.8

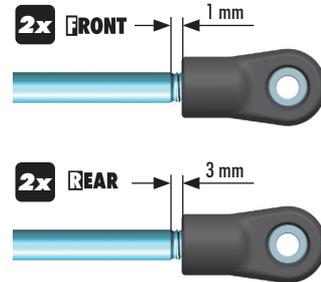
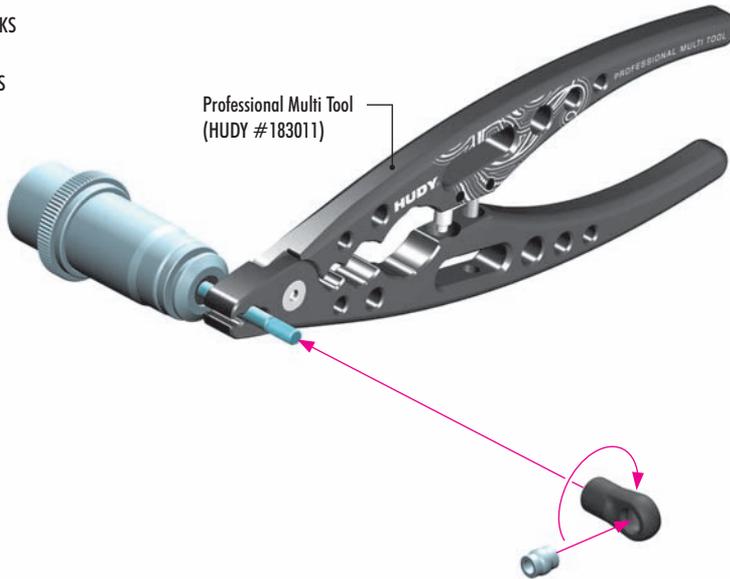
4x



2x FRONT SHOCKS

2x REAR SHOCKS

Professional Multi Tool
(HUDY #183011)



DEFAULT SHOCK REBOUND SETTING 0% (LOW REBOUND)

Follow the steps below to set the shock rebound to the default setting of 0%.

4x SHOCK
Oil 1000cSt

SET-UP BOOK
SHOCK OIL



1 Extend the shock shaft completely. Fill the shock body with the shock oil. For the shocks use 1000cSt oil.



2 Move the shock shaft up and down a few times to release the air bubbles trapped beneath the piston.



3 Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.



4 Install the shock membrane into the groove in the upper shock cap.



5 Gently place the shock cap assembly onto the filled shock body. Excess oil will spill from the shock. Screw the shock cap onto the body by only a few turns.



6 Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.

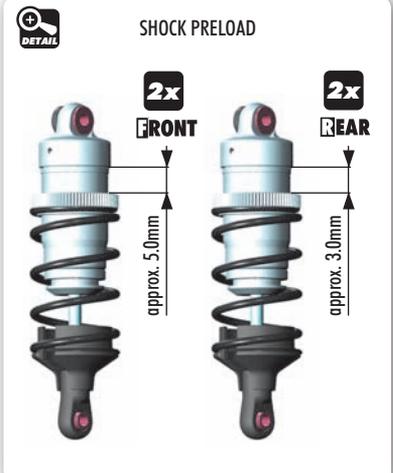
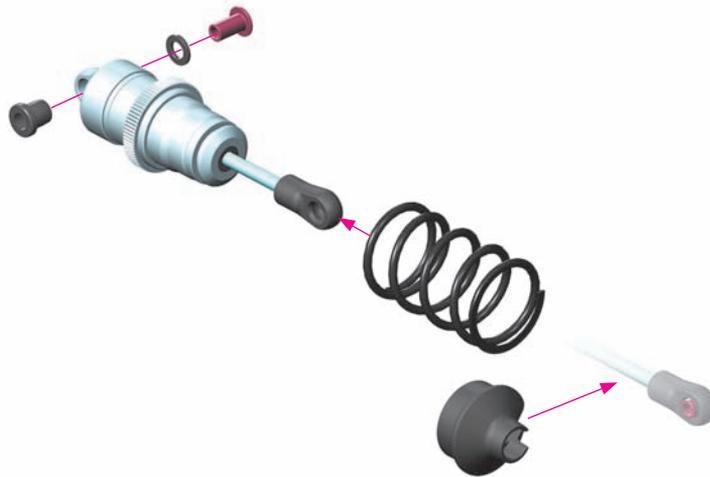


7 Keep the shock shaft pushed in the shock body and tighten the shock cap completely. The rebound will be at approximately 0%.



971034
0 3.4x2

4x



SET-UP BOOK

SPRING RATE SHOCK
PRELOAD
RIDE HEIGHT

TIP ALTERNATE SHOCK REBOUND SETTING (50% AND 100%)

The default shock rebound setting is 0% (as described on page 40). Alternatively, you may set the shock rebound setting to 50% or 100% as described below. Remove the shock springs before performing shock rebound adjustment.

SETTING THE SHOCK REBOUND TO 50% (MEDIUM REBOUND)

REMOVE SHOCK CAP



1 Extend the shock shaft completely and remove the shock cap.



2 Fill the shock body with shock oil up to the top. Make sure to use same viscosity shock oil as is in the shock.



3 Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.

HALF TIGHTEN 50%



4 Gently place the shock cap assembly onto the filled shock body. Excess oil will spill from the shock.



5 Push the shock shaft 50% into the shock body. Excess oil will bleed through the hole in the shock cap.

TIGHTEN FULLY 100%



6 Keep the shock shaft pushed 50% into the shock body and tighten the shock cap completely. The rebound will be at approximately 50%.

SETTING THE SHOCK REBOUND TO 100% (HIGH REBOUND)

REMOVE SHOCK CAP



1 Extend the shock shaft completely and remove the shock cap.



2 Fill the shock body with shock oil up to the top. Make sure to use same viscosity shock oil as is in the shock.



3 Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.

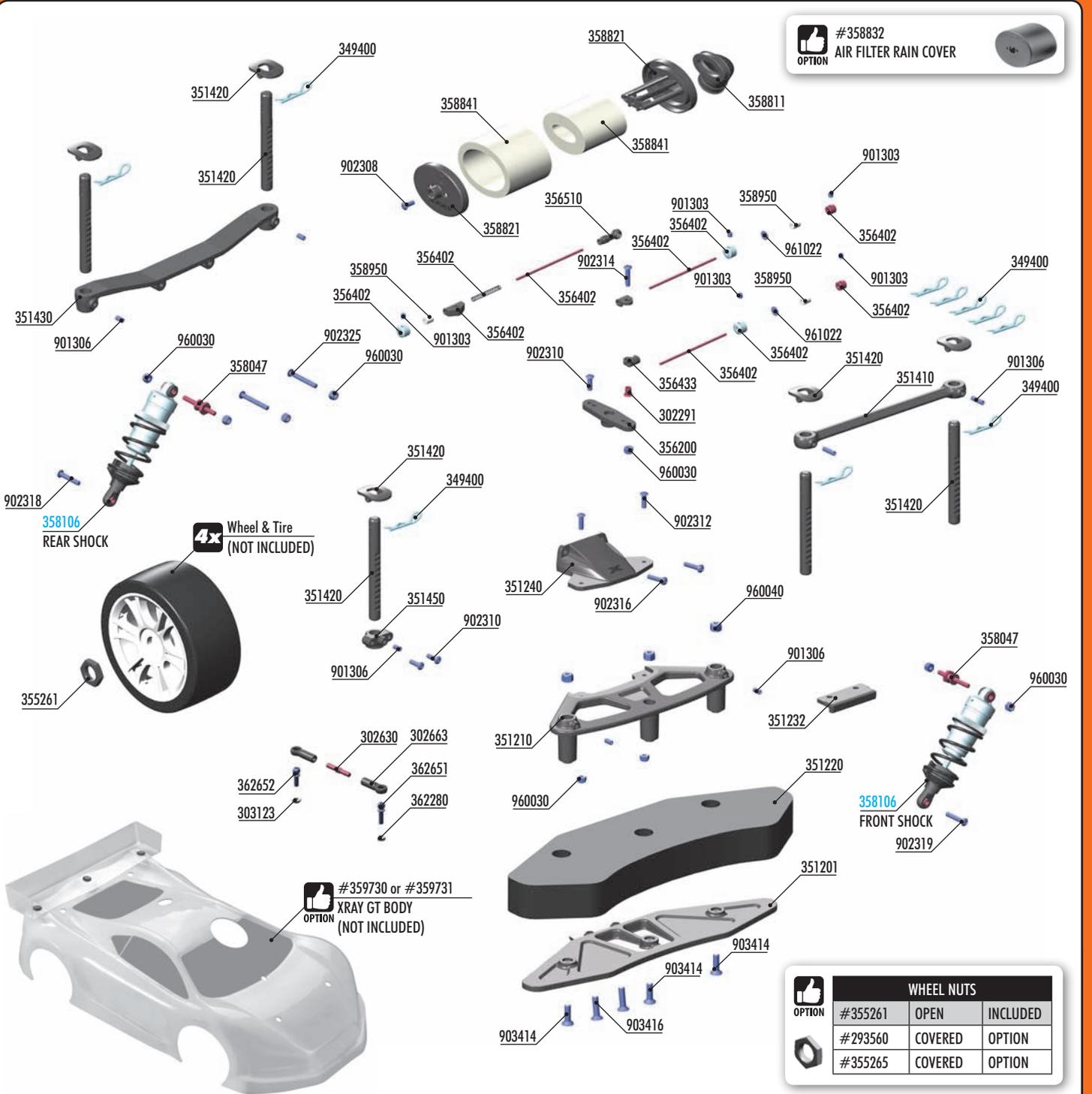
TIGHTEN FULLY 100%



4 Gently place the shock cap assembly onto the filled shock body. Keep the shock shaft extended 100% from the shock body and tighten the shock cap completely. The rebound will be at approximately 100%.

12. FINAL ASSEMBLY

GTX8

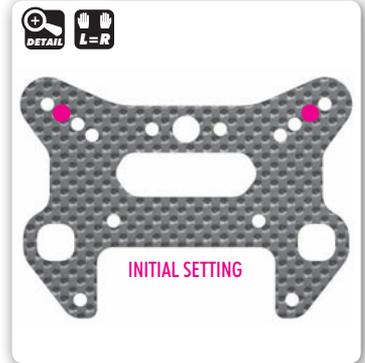
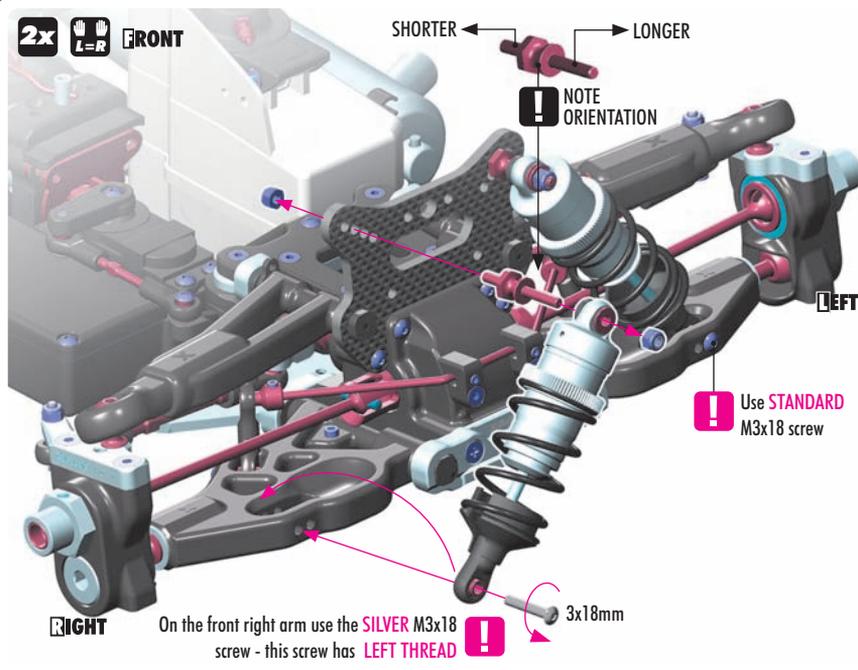


WHEEL NUTS		
#355261	OPEN	INCLUDED
#293560	COVERED	OPTION
#355265	COVERED	OPTION

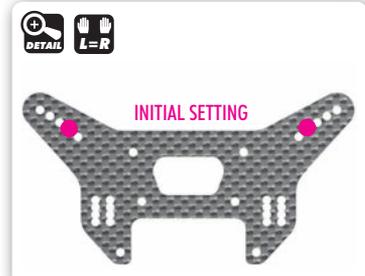
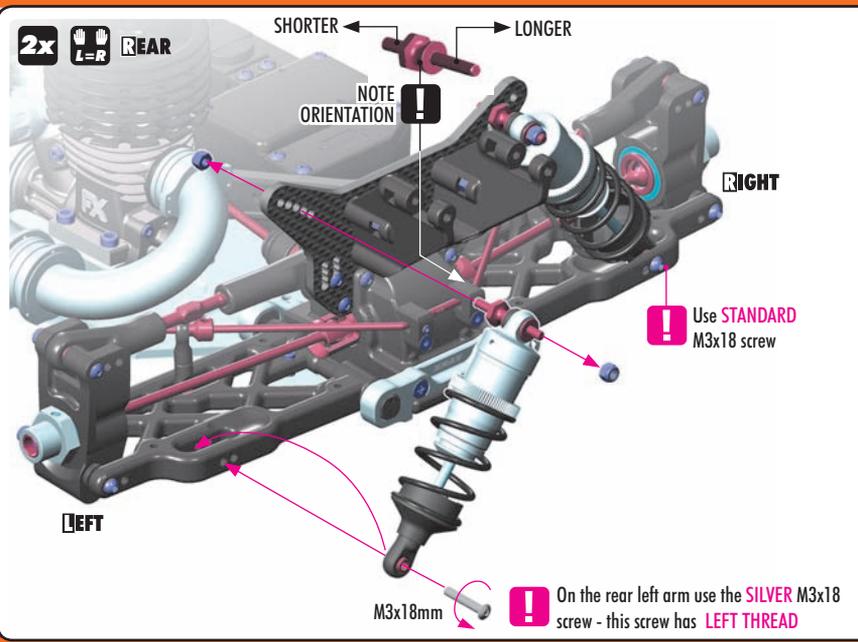
BAG
12

- 302291 STEEL STEERING BUSHING (2+2)
- 302630 ADJ. TURNBUCKLE L/R 20 MM - HUDY SPRING STEEL™ (2)
- 302663 COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8)
- 303123 ALU SHIM 3x6x2.0MM (10)
- 349400 BODY CLIP (10)
- 351201 GT COMPOSITE FRONT BUMPER
- 351210 GT COMPOSITE FRONT UPPER BUMPER
- 351220 GT FOAM BUMPER
- 351232 GT COMPOSITE FRONT & REAR SUSPENSION HOLDER PLATE
- 351240 GT COMPOSITE FRONT UPPER BUMPER BRACE
- 351410 GT COMPOSITE FRONT HOLDER FOR BODY POSTS
- 351420 GT COMPOSITE BODY POSTS (2)
- 351430 GT COMPOSITE REAR HOLDER FOR BODY POSTS
- 351450 GT COMPOSITE CENTER BODY POST HOLDER
- 355261 WHEEL NUT - RIBBED - HARD COATED (2)
- 356200 BRAKE/THROTTLE ARMS & SERVO ARMS - SET
- 356402 XB8 BRAKE/THROTTLE SYSTEM - SET
- 356433 GT COMPOSITE BRAKE WIRE HOLDER (2)
- 356510 CLOSED BALL JOINT 3.9 (4)
- 358047 STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)
- 358811 AIR FILTER ELBOW - LOW PROFILE
- 358821 AIR FILTER BODY & CAP - LOW PROFILE

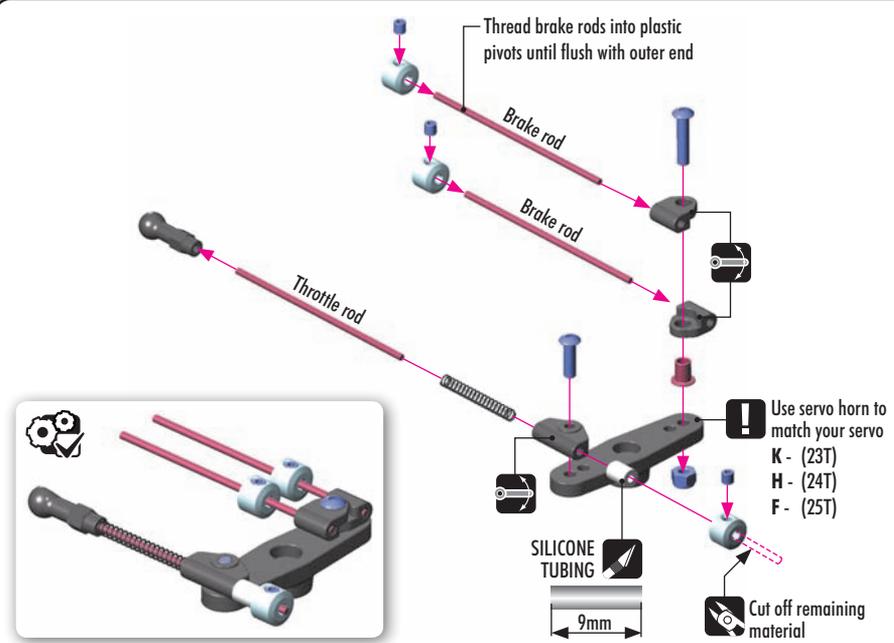
- 358841 AIR FILTER FOAM & OIL - LOW PROFILE
- 358950 SILICONE TUBING 1M (2.4 x 5.5MM)
- 362280 ALU CONICAL SHIM 3x6x2.0MM (10)
- 362651 BALL END 4.9MM WITH THREAD 8MM (2)
- 362652 BALL END 4.9MM WITH THREAD 10MM (2)
- 901303 HEX SCREW SB M3x3 (10)
- 901306 HEX SCREW SB M3x6 (10)
- 902308 HEX SCREW SH M3x8 (10)
- 902310 HEX SCREW SH M3x10 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 902314 HEX SCREW SH M3x14 (10)
- 902316 HEX SCREW SH M3x16 (10)
- 902318 HEX SCREW SH M3x18 (10)
- 902319 HEX SCREW SH M3x18 - LEFT THREAD (10)
- 902325 HEX SCREW SH M3x25 (10)
- 903414 HEX SCREW SFH M4x14 (10)
- 903416 HEX SCREW SFH M4x16 (10)
- 960030 NUT M3 (10)
- 960040 NUT M4 (10)
- 961022 WASHER S 2.2 (10)
- 358106 GTX8 SHOCK ABSORBERS (2)



SET-UP BOOK
SHOCK ABSORBERS



SET-UP BOOK
SHOCK ABSORBERS



CLAMP ALU SERVO HORNS

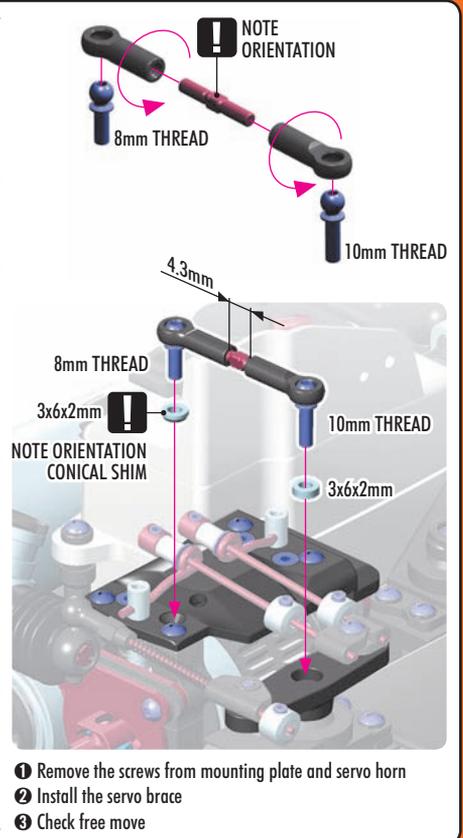
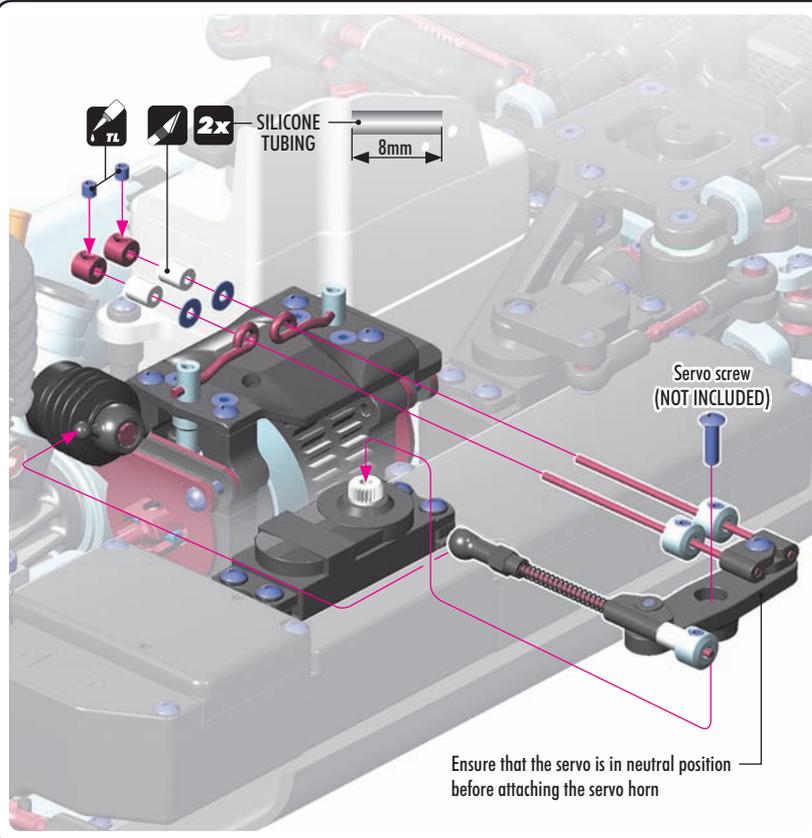
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#293445	24T	OPTION
#293446	25T	OPTION
#293447	23T	OPTION
#293448	24T	OPTION
#293449	25T	OPTION

ALU SERVO HORNS

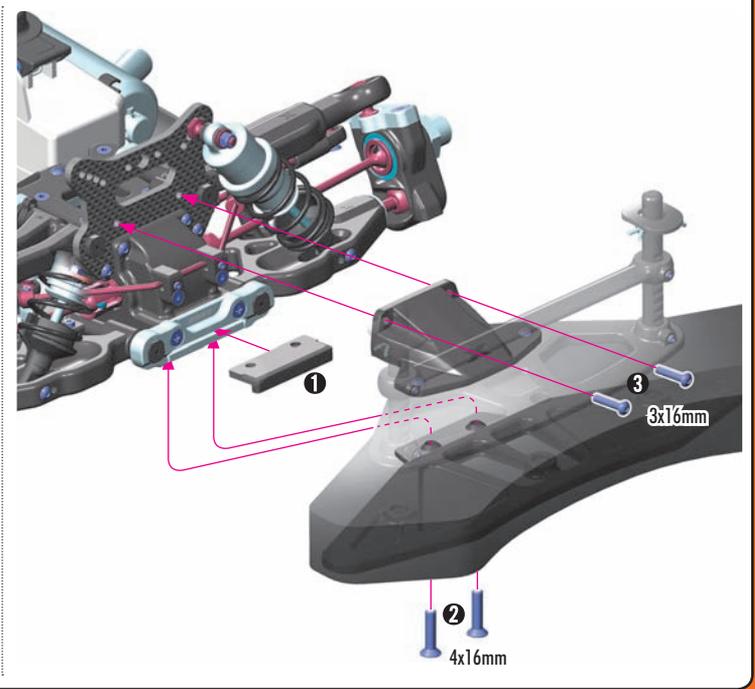
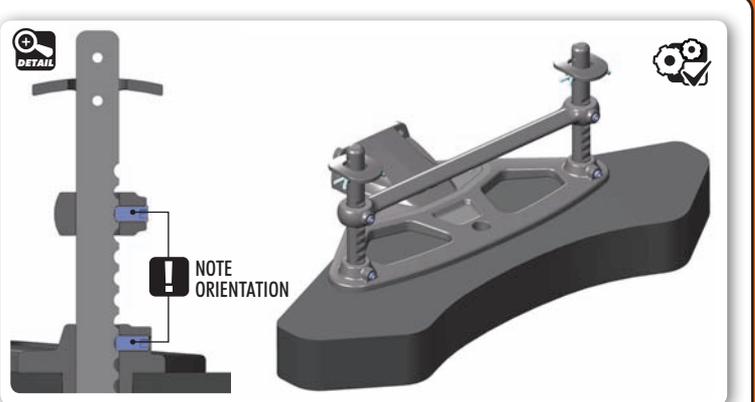
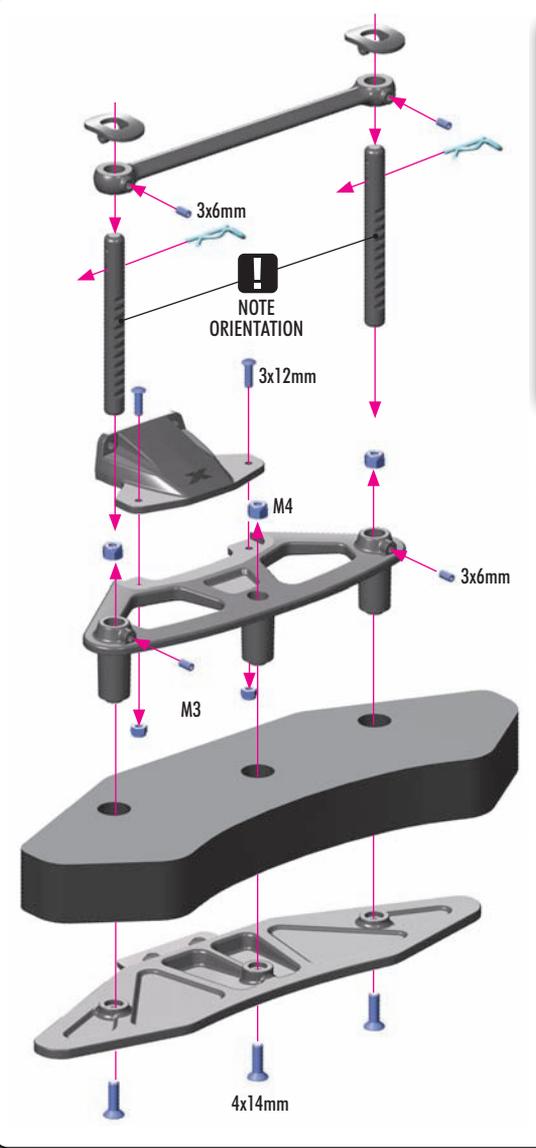
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#293505	24T	OPTION
#293506	25T	OPTION
#293507	23T	OPTION
#293508	24T	OPTION
#293509	25T	OPTION

12. FINAL ASSEMBLY

-  901303
SB M3x3
-  961022
S 2.2
-  303123
SHIM 3x6x2
-  362280
CON. SHIM 3x6x2



-  901306
SB M3x6
-  902312
SH M3x12
-  902316
SH M3x16
-  903414
SFH M4x14
-  903416
SFH M4x16
-  960030
N M3
-  960040
N M4



12. FINAL ASSEMBLY

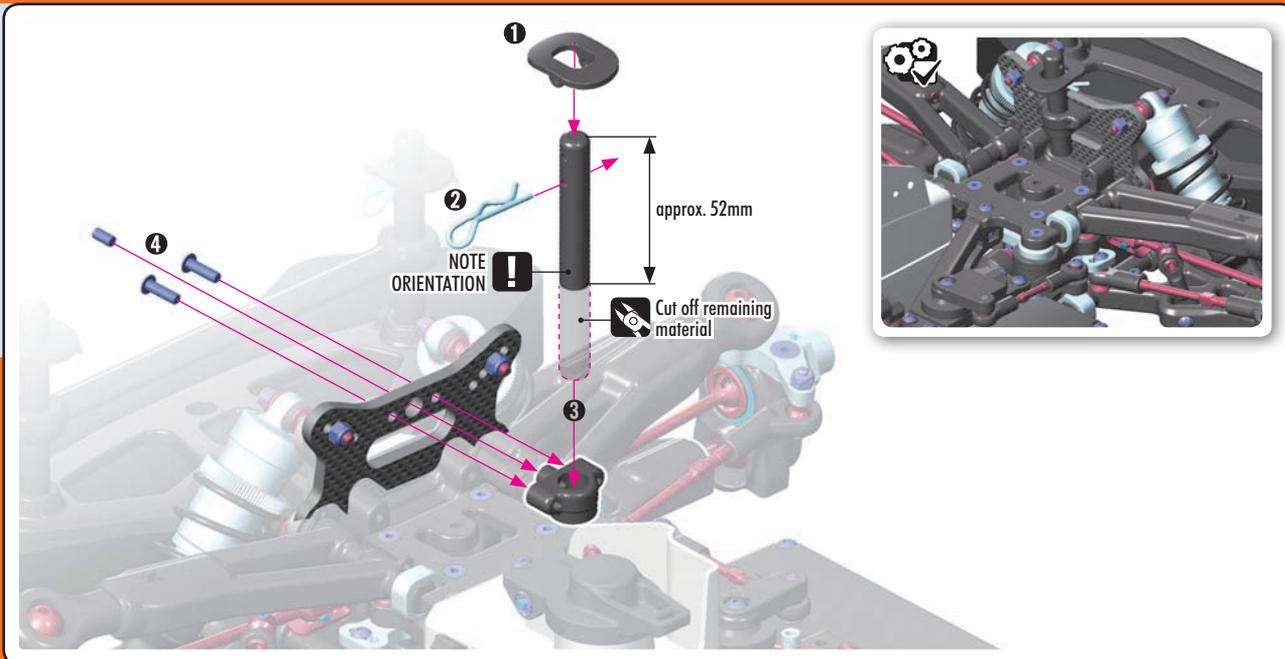
GTX8



901306
SB M3x6



902310
SH M3x10



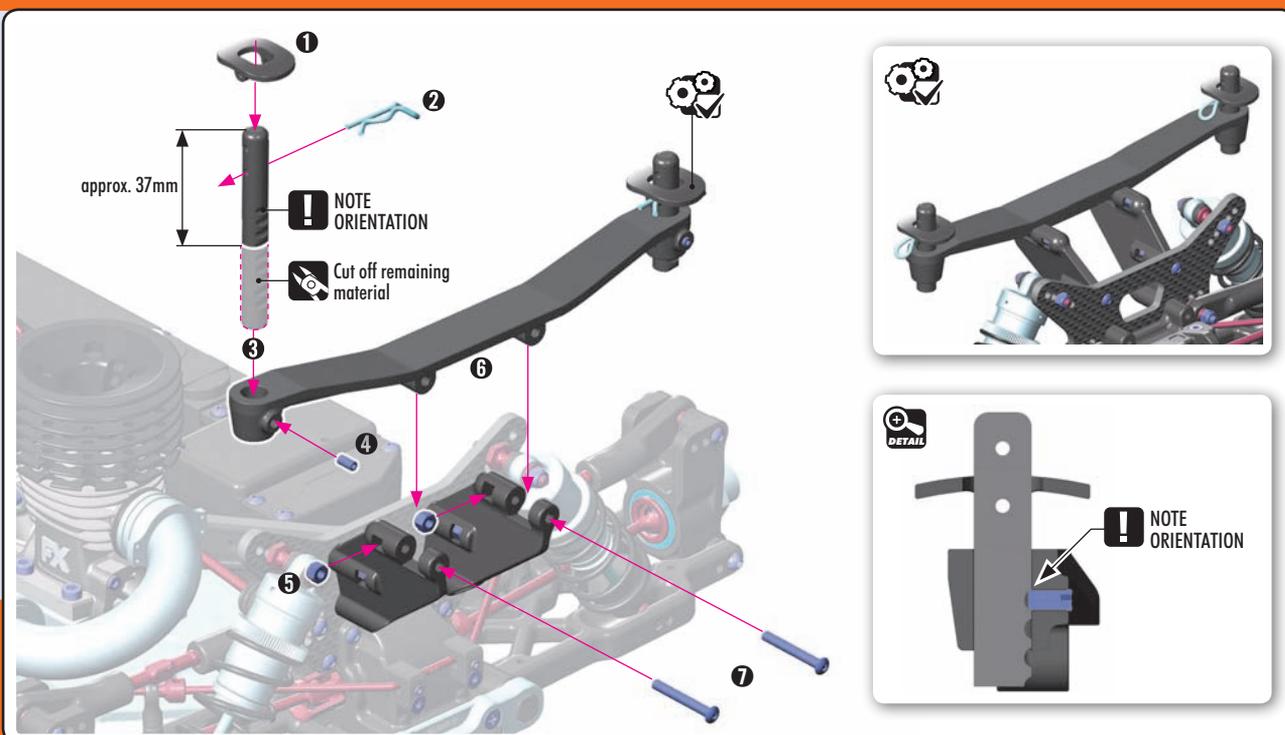
901306
SB M3x6



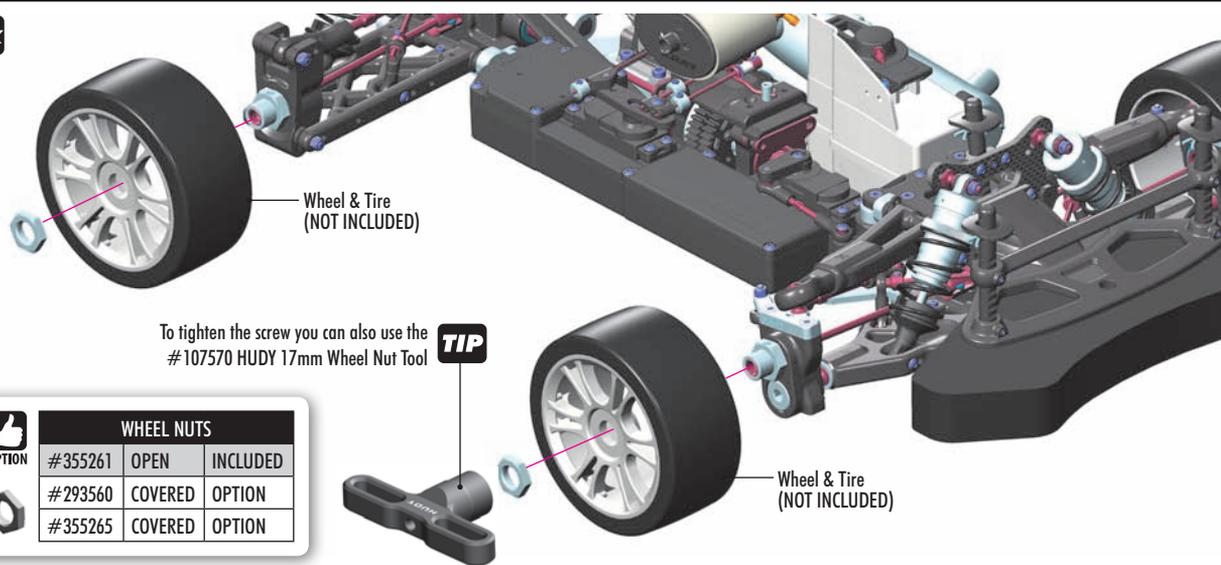
902325
SH M3x25



960030
N M3



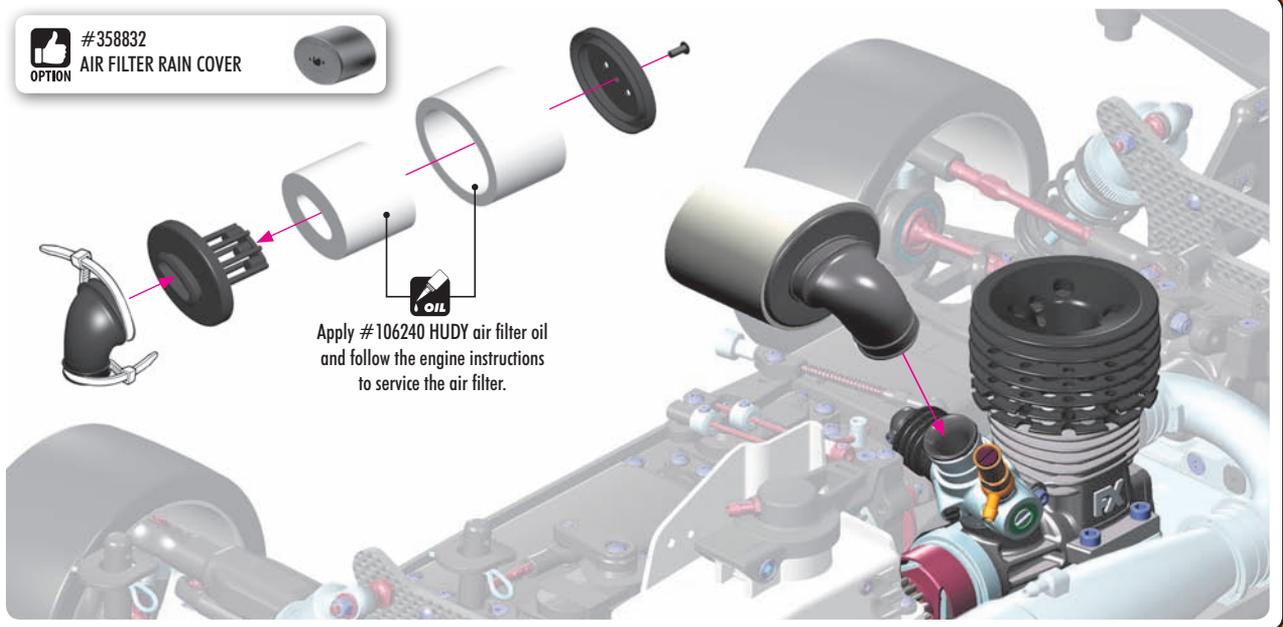
4x



OPTION

WHEEL NUTS

#355261	OPEN	INCLUDED
#293560	COVERED	OPTION
#355265	COVERED	OPTION

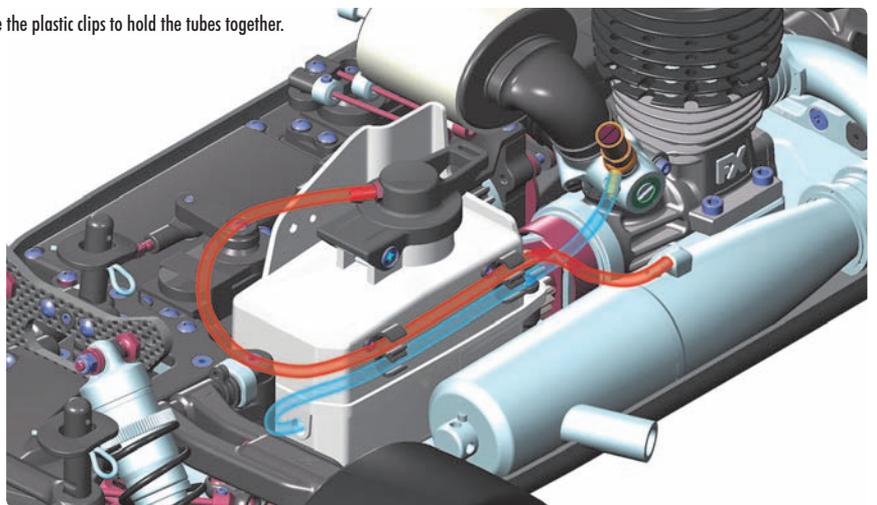


Cut the silicone tube depending on engine and muffler. Use the plastic clips to hold the tubes together.

SILICONE TUBE MARKED AS
BLUE = FROM FUEL TANK TO CARBURETOR

SILICONE TUBE MARKED AS
RED = FROM MUFFLER TO FUEL TANK (TOP)

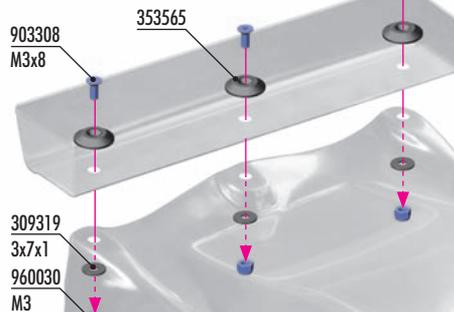
! Keep fuel line away from clutchbell and flywheel.



#359730 or #359731 GTX BODY (NOT INCLUDED)
OPTION

- 1 Before cutting and making holes on the body, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts.
- 2 Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
- 3 Mask all windows.
- 4 Apply paint masks as appropriate.
- 5 Paint the body using paints formulated for polycarbonate bodies.
- 6 When the paint is dry, remove the masking.
- 7 Carefully cut out the body using appropriate scissors or cutting tools.
- 8 When you have finished cutting, peel off the external protective films.

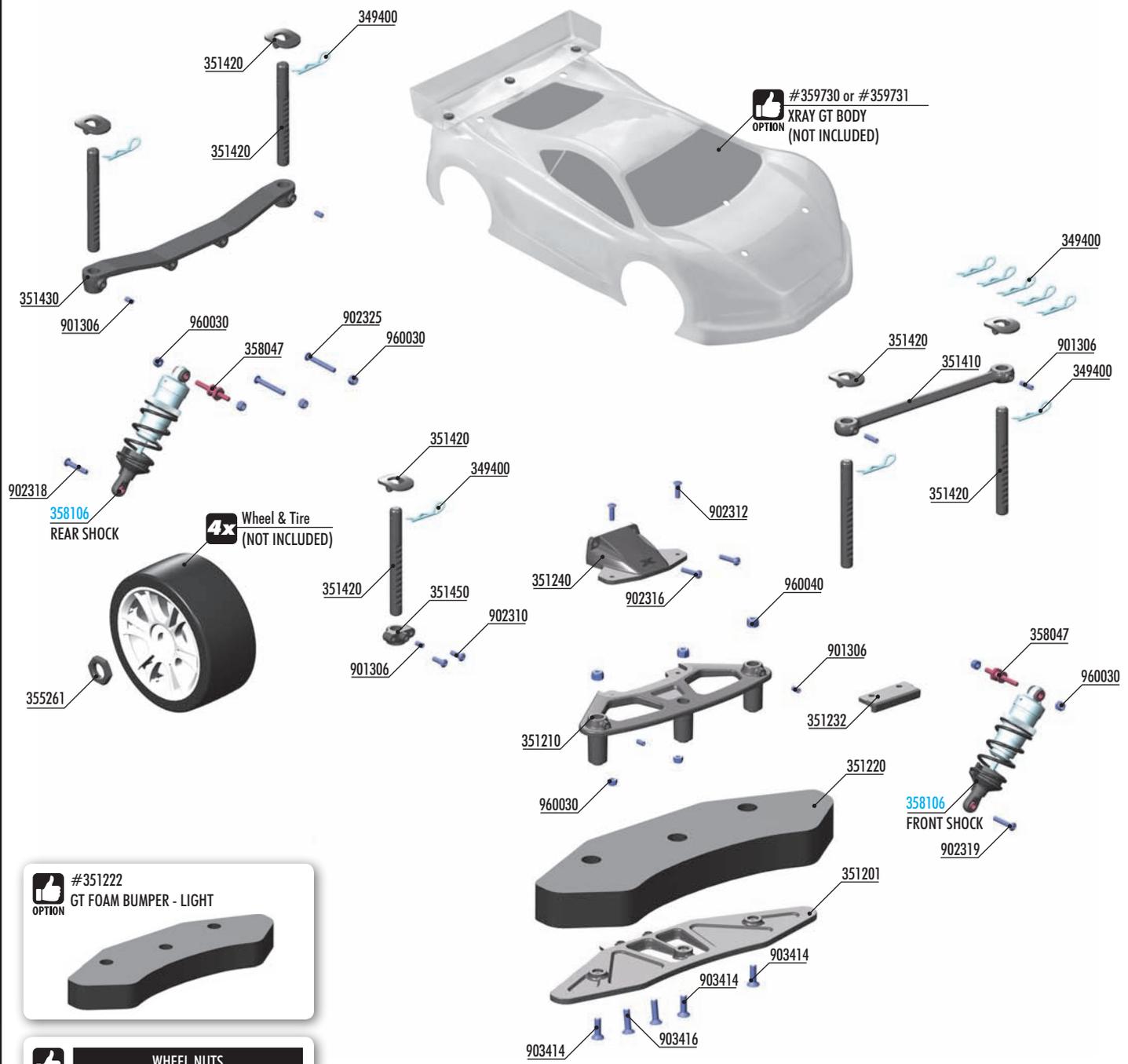
TIP Use Body Reamer (HUDY #107600) for all holes.



WING SHIMS			
OPTION	#353565	COMPOSITE	INCLUDED
	#293561	ALU	OPTION
	#293561-0	ALU	OPTION
	#353561	ALU	OPTION

TIP To reinforce the body or to fix broken body use #106280 HUDY BODY FIX

12. FINAL ASSEMBLY



OPTION #359730 or #359731
XRAY GT BODY
(NOT INCLUDED)

4x Wheel & Tire
(NOT INCLUDED)



OPTION

WHEEL NUTS			
#355261	OPEN	INCLUDED	
#293560	COVERED	OPTION	
#355265	COVERED	OPTION	

BAG
12

- 349400 BODY CLIP (10)
- 351201 GT COMPOSITE FRONT BUMPER
- 351210 GT COMPOSITE FRONT UPPER BUMPER
- 351220 GT FOAM BUMPER
- 351232 GT COMPOSITE FRONT & REAR SUSPENSION HOLDER PLATE
- 351240 GT COMPOSITE FRONT UPPER BUMPER BRACE
- 351410 GT COMPOSITE FRONT HOLDER FOR BODY POSTS
- 351420 GT COMPOSITE BODY POSTS (2)
- 351430 GT COMPOSITE REAR HOLDER FOR BODY POSTS
- 351450 GT COMPOSITE CENTER BODY POST HOLDER
- 355261 WHEEL NUT - RIBBED - HARD COATED (2)
- 358047 STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)
- 901306 HEX SCREW SB M3x6 (10)
- 902310 HEX SCREW SH M3x10 (10)

- 902312 HEX SCREW SH M3x12 (10)
- 902316 HEX SCREW SH M3x16 (10)
- 902318 HEX SCREW SH M3x18 (10)
- 902319 HEX SCREW SH M3x18 - LEFT THREAD (10)
- 902325 HEX SCREW SH M3x25 (10)
- 903414 HEX SCREW SFH M4x14 (10)
- 903416 HEX SCREW SFH M4x16 (10)
- 960030 NUT M3 (10)
- 960040 NUT M4 (10)

358106 GTX8 SHOCK ABSORBERS (2)



SET-UP BOOK
SHOCK ABSORBERS

2x **L=R** **FRONT**

SHORTER → LONGER

NOTE ORIENTATION

LEFT

RIGHT

Use **STANDARD** M3x18 screw

On the front right arm use the **SILVER** M3x18 screw - this screw has **LEFT THREAD**

3x18mm

DETAIL **L=R**

INITIAL SETTING

DETAIL

INITIAL SETTING

L=R



SET-UP BOOK
SHOCK ABSORBERS

2x **L=R** **REAR**

SHORTER → LONGER

NOTE ORIENTATION

RIGHT

LEFT

Use **STANDARD** M3x18 screw

On the rear left arm use the **SILVER** M3x18 screw - this screw has **LEFT THREAD**

M3x18mm

DETAIL **L=R**

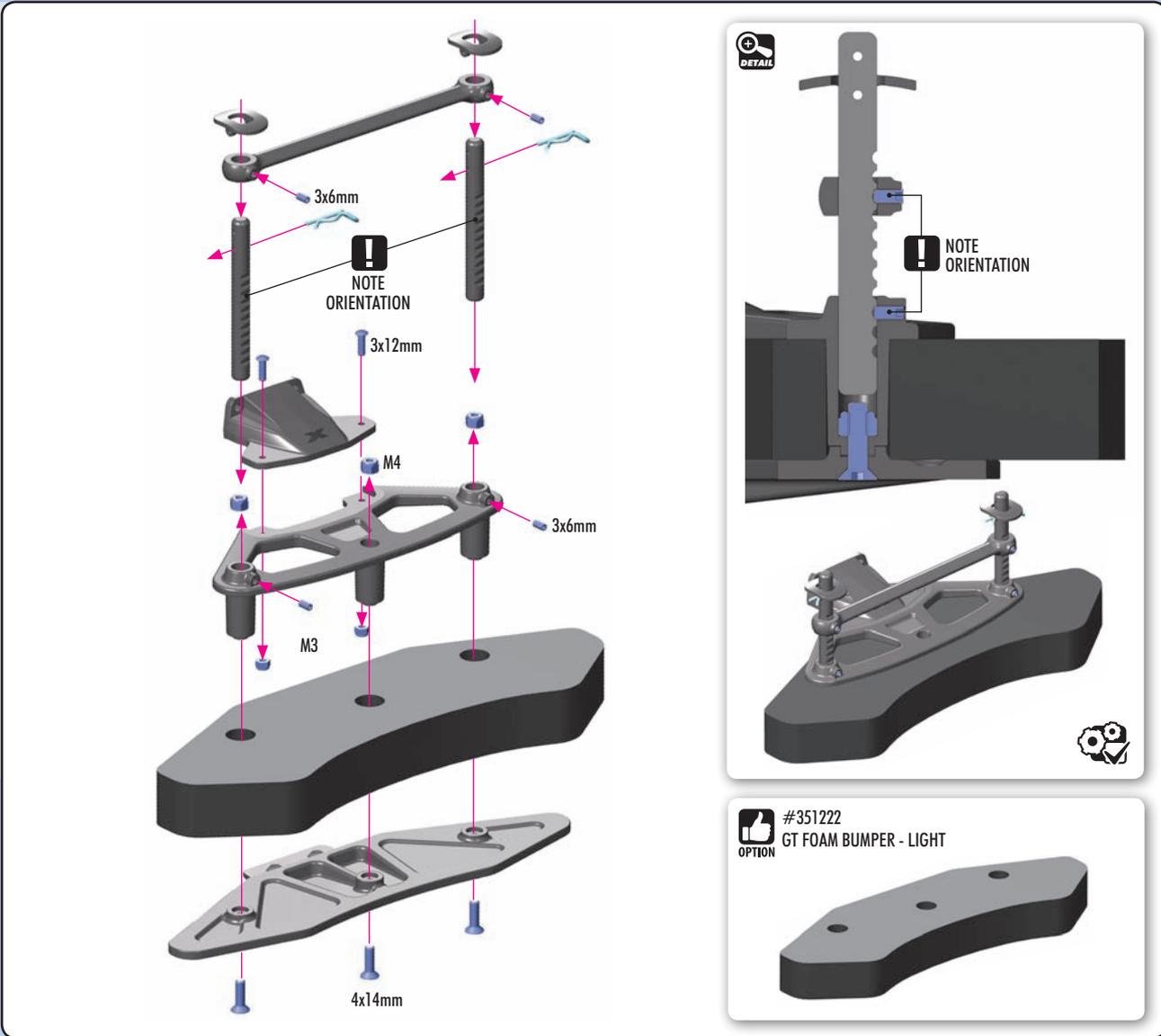
INITIAL SETTING

DETAIL **L=R**

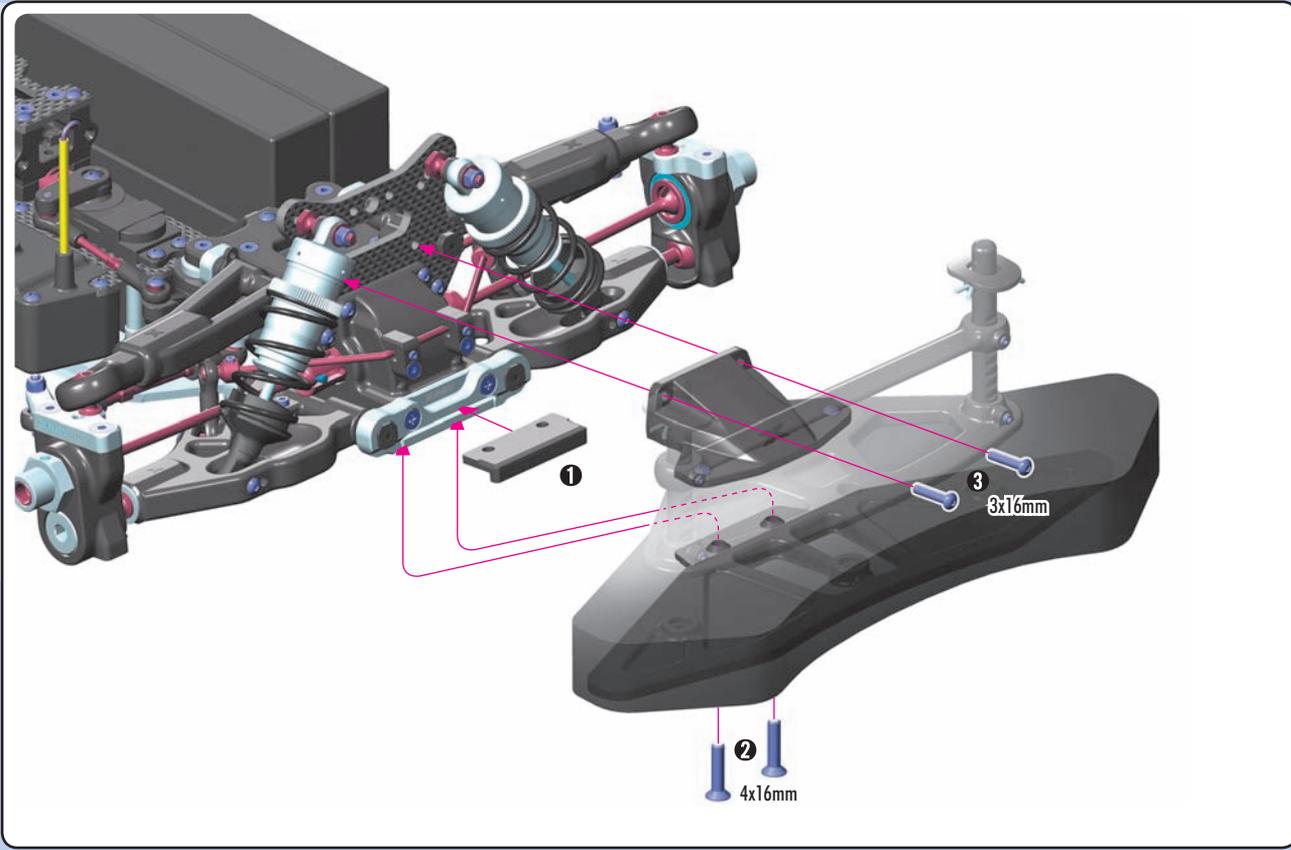
INITIAL SETTING

L=R

- 901306
SB M3x6
- 902312
SH M3x12
- 903414
SFH M4x14
- 960030
N M3
- 960040
N M4

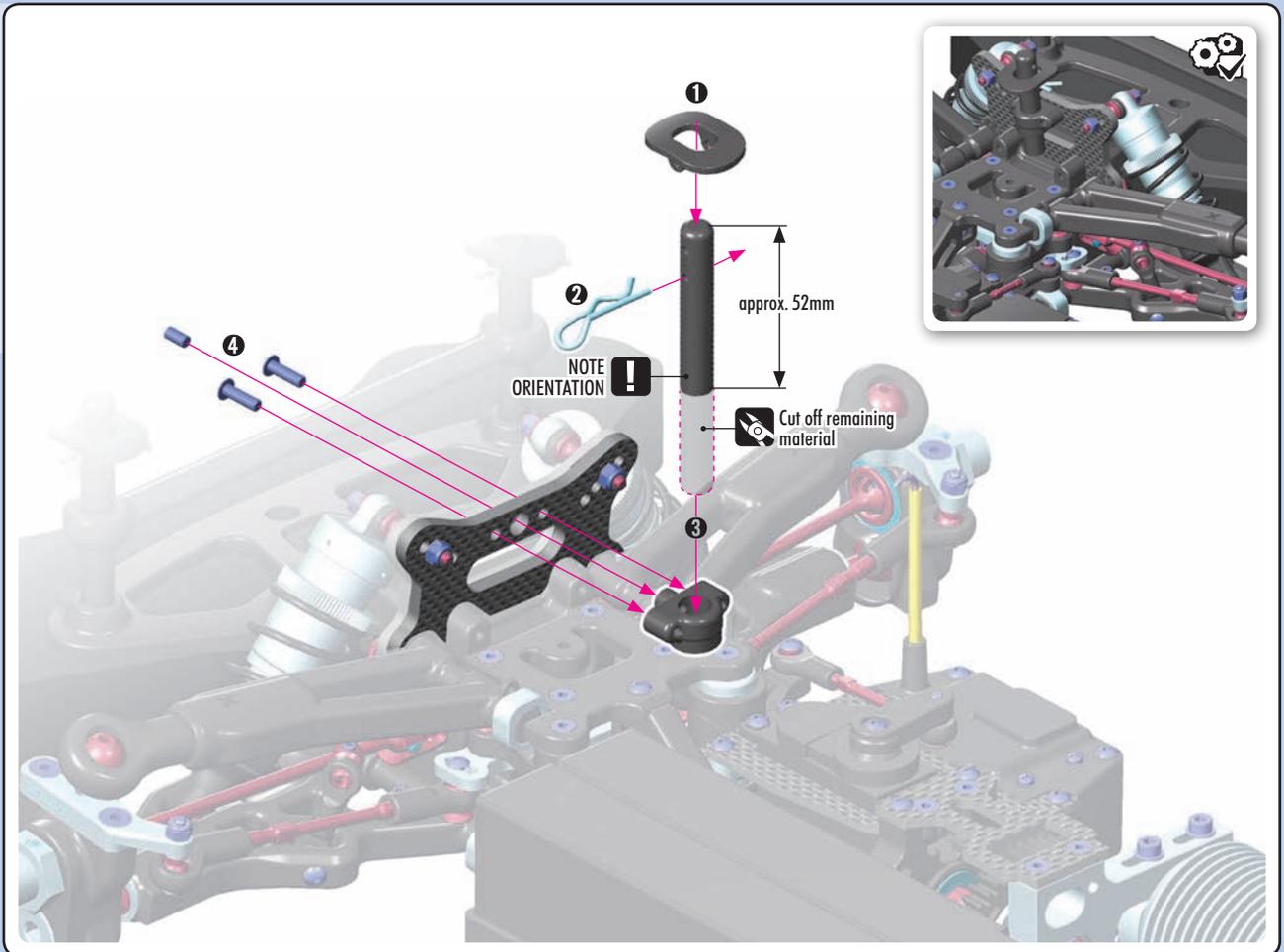


- 902316
SH M3x16
- 903416
SFH M4x16

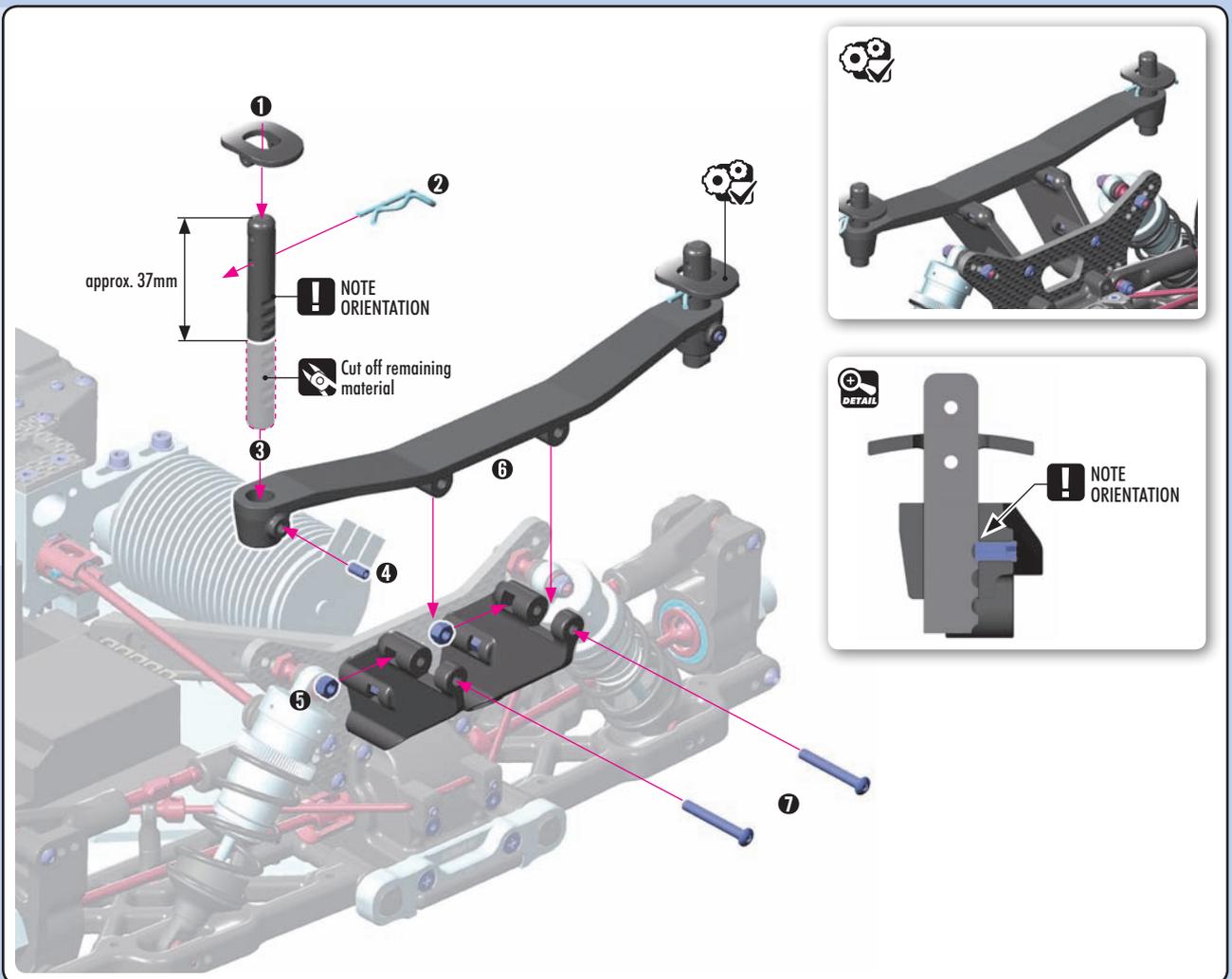


12. FINAL ASSEMBLY

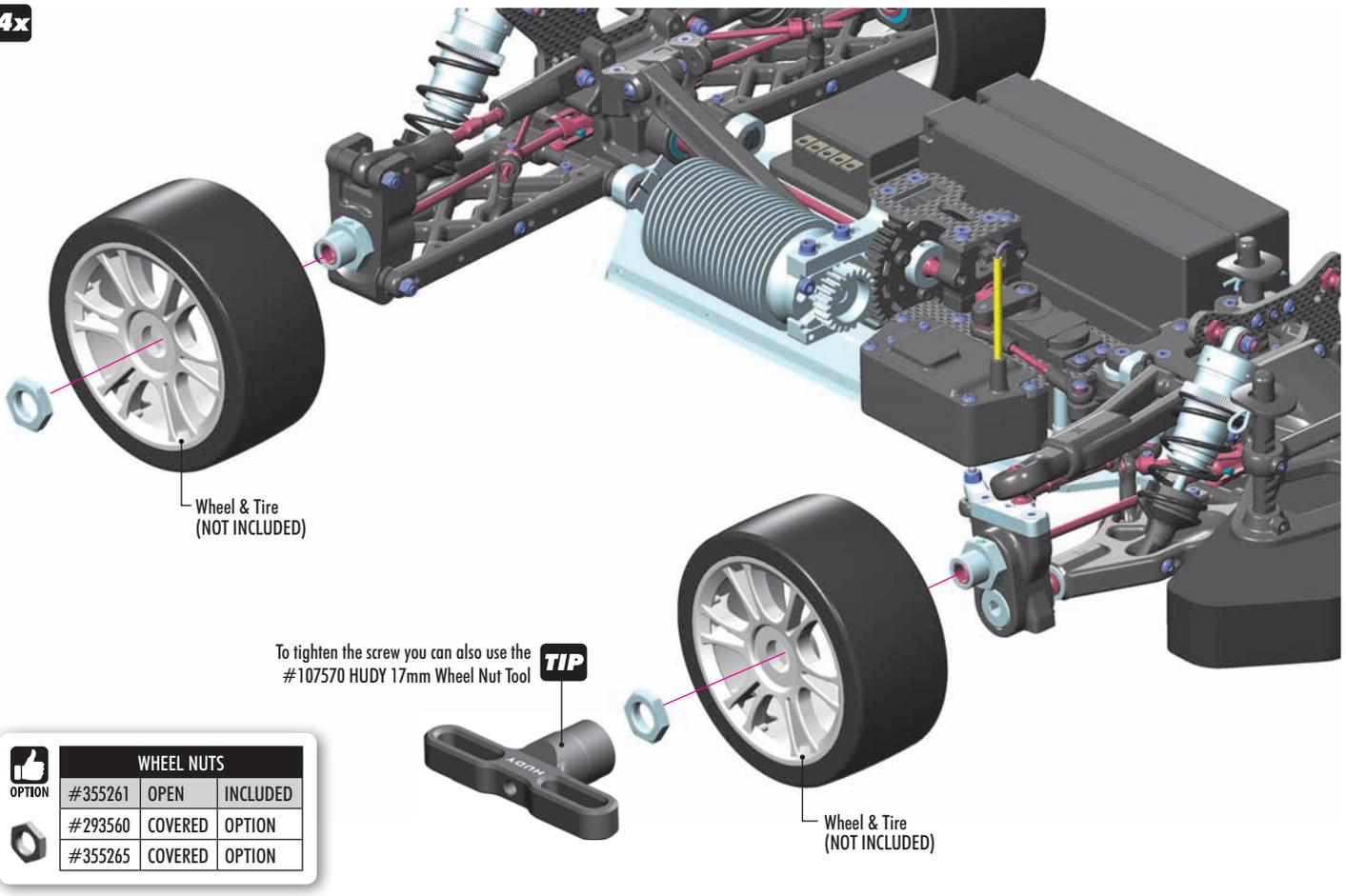
-  901306
SB M3x6
-  902310
SH M3x10



-  901306
SB M3x6
-  902325
SH M3x25
-  960030
N M3



4x



Wheel & Tire (NOT INCLUDED)

To tighten the screw you can also use the #107570 HUDY 17mm Wheel Nut Tool

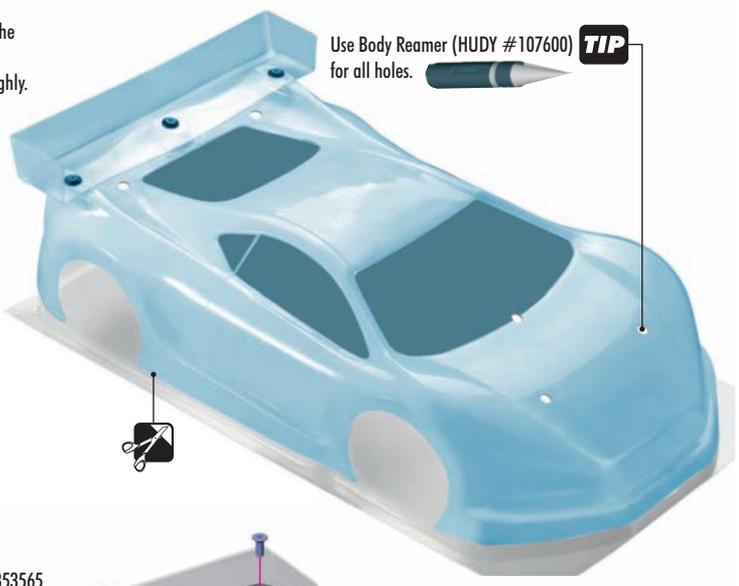
TIP

Wheel & Tire (NOT INCLUDED)

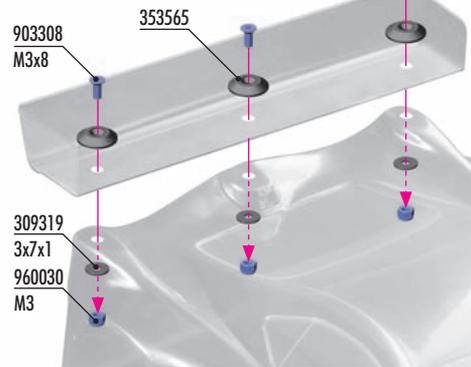
WHEEL NUTS			
OPTION	#355261	OPEN	INCLUDED
	#293560	COVERED	OPTION
	#355265	COVERED	OPTION

OPTION #359730 or #359731 GTX BODY (NOT INCLUDED)

- 1 Before cutting and making holes on the body, put the unpainted body on the chassis to confirm the mounting position and location for holes and cutouts.
- 2 Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
- 3 Mask all windows.
- 4 Apply paint masks as appropriate.
- 5 Paint the body using paints formulated for polycarbonate bodies.
- 6 When the paint is dry, remove the masking.
- 7 Carefully cut out the body using appropriate scissors or cutting tools.
- 8 When you have finished cutting, peel off the external protective films.



Use Body Reamer (HUDY #107600) for all holes. **TIP**



WING SHIMS			
OPTION	#353565	COMPOSITE	INCLUDED
	#293561	ALU	OPTION
	#293561-0	ALU	OPTION
	#353561	ALU	OPTION

TIP To reinforce the body or to fix broken body use #106280 HUDY BODY FIX

ENGINE OPERATION

PREPARING TO OPERATE THE ENGINE

- Never modify the engine or muffler.
- Confirm the position of needle and idling before running. Be sure to run a new engine smoothly.
- 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.
- The engine may not start or run properly if the air filter is dirty, or choked with sand and dust.
- If the fuel pipe is choked or deteriorates, the engine may not start, and there is danger that fuel will leak out.

STARTING AND RUNNING THE ENGINE

Be sure to observe the following starting process. Failure to do so may cause the model car to start suddenly, which may lead to damage or unexpected accidents.

1. Make sure the transmitter and receiver batteries are fully charged.
2. Make sure that your transmitter and receiver are both on the same frequency. If you have a transmitter with multiple model memory, make sure you have selected the proper profile for your car.
3. Put the car on the starter box and keep the tires from touching the ground.
4. Turn on the transmitter.
5. Turn on the receiver in the car.
6. Make sure the steering servo and engine servos work normally and adjust them correctly.
7. Put fuel in the fuel tank, and close the cap securely.
8. Apply the glow igniter to the engine glowplug.
9. Push the model car onto the starter box to start the engine. (If the engine is new, follow the instruction manual and be sure to break in the new engine properly).
10. When the engine has started, remove the glow igniter.
11. Follow your engine break-in procedure and tune the engine as appropriate.

STOPPING THE ENGINE

Before you stop the engine, try to make sure the engine is at idle first. There are several ways to stop the engine:

- Use a rag to cover the exhaust tip. Be careful! The exhaust is extremely hot so use a thick rag and gloves.
- Pinch the fuel tubing to stop the flow of fuel to the carb. Be careful, this can make the motor run lean which can damage the motor.
- Put your hand over the air filter, or squeeze the air filter element to block the airflow.
- Press an object (such as a screwdriver handle or shoe) against the rotating flywheel to stop its rotation. Be very careful, and do not stick your hand or fingers near the rotating flywheel.

FINISHING OPERATIONS

1. Stop the engine.
2. Turn off the receiver in the car
3. Turn off the transmitter.

MAINTENANCE AFTER RUNNING

Take proper care of your car after running to keep it performing well, and take notice of any damage and wear.

1. Do not leave fuel in the tank.
2. Go outside to drain any residual fuel from the exhaust pipe.
3. Clean the car and remove all sand, mud, and other debris.
4. Use after-run oil in your engine after you have finished running for the day.

SHOCK MAINTENANCE

The most important maintenance task for keeping consistent shock performance is refilling and bleeding them correctly. If built correctly, it will not be necessary to re-build them often. Replacing warped/hard rubber bladders and o-rings, scarred piston rods, or shaved/split/loose composite upper and lower ball joints are also important.

- For club racing, it is recommended to check the shocks for air inside before each race and only re-fill and bleed them if necessary. Before each race day, make sure you take the spring off of each shock, hold it up to your ear, and quickly compress the shock rod fully into the body while listening for any air making a "whistling" or "squishy" sound as it passes through the piston holes. If you hear any air, refill and bleed your shocks. For high-competition racing, it is recommended that the shocks be re-filled and bled before a large event.
- If building or pairing new shocks, always make sure they are the same length using a shock length measuring tool and adjust the lower ball joints as needed.
- If installing new rubber bladders, carefully trim the thin excess rubber from the edges of their lips. Curved body scissors work the best.
- Regularly inspect the amount of dirt on the felt protector in the shocks (if present) and regularly replace with a new one.
- During regular shock operation, oil naturally gets on the shock shaft and drop-by-drop slightly gets out of the shock body. Shocks should be inspected regularly after each race, and oil replaced as required.

BEARING MAINTENANCE

Ball-bearings in an off-road car or truggy must be properly maintained for smooth operation and long lifespan.

Typically, the ball-bearings included in new cars are greased for highest lifespan and as such the drivetrain may not seem to be as free as with lightly-oiled ball-bearings. However, when the car is run the ball-bearings will become more free and the drivetrain will become very efficient.

There are several types of bearings discussed here: bearings which already come greased from the factory, bearings which must be lubricated using the HUDY Bearing Grease, and then there are also bearings in the steering system which need to be lubricated with HUDY Bearing Oil.

The following procedures are recommended to clean all of the bearings in your off-road car or truggy. For high-competition racing, we recommended doing this every 3-4 weeks, or before a major race.

1. Remove the seals on both sides of the bearing (if present). If the seals bend a little and you can see a kink, carefully flatten the kink out by hand.
2. Spray the seals with motor cleaner and blow dry with compressed air.
3. Spray the bearing on both sides with motor cleaner.
4. Spin the bearing while it is still wet to dislodge any particles with the cleaner.
5. Spray the bearing on both sides again.
6. Blow both sides of the bearing dry with compressed air to make sure particles come out.
7. Hold the inner part of the bearing with my left thumb/forefinger and spin it to make sure it spins free without any abnormal vibrations or sounds.
8. Place one drop of bearing oil into each side of the bearing.
9. Replace both seals at the same time by lining them up on each side of the bearing and lightly pressing them in all the way around the bearings circumference with your thumb and forefinger. Do not press too hard or use any type of tool, such as a wrench tip, to push the blue seals in as they will push in too far, bend and cause drag.

If you spin test the bearing after you have re-oiled and sealed it, it will not spin freely for an extended period of time. The lightest of oils may allow it to spin for 1-2 seconds. This is normal and once you have mounted the bearings in the car again, the drive train will spin freely.

Make sure you use a motor cleaner that does not leave a residue after it dries as this may cause drag and wear in the bearings.

CLUTCH BEARINGS

To prolong the lifespan of the clutch bearings, they must be regularly cleaned and lubricated (preferably after each run) using a high-quality grease such as HUDY Bearing Grease. However, after some time the clutch bearings must be replaced with new ones.

RECOMMENDED PRODUCTS

- Use HUDY Bearing Grease to regularly lubricate grease-bearing ball-bearings.
- Use HUDY Bearing Oil to lubricate the bearings of the steering system.
- Use HUDY Bearing Grease to regularly lubricate the clutch bearings.

HUDY #106230

HUDY
#106213



HUDY
#106220



HUDY
#106222

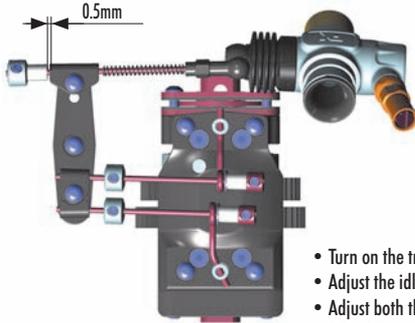


HUDY
#106221

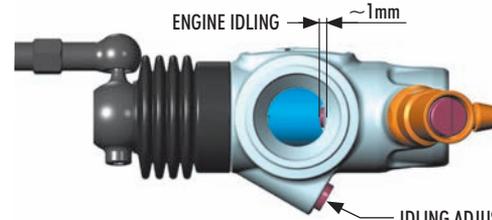


NEUTRAL (IDLE)

ADJUST INDIVIDUAL LINKAGES SEPARATELY TO AVOID INTERFERING WITH THE OPERATION OF THE OTHERS



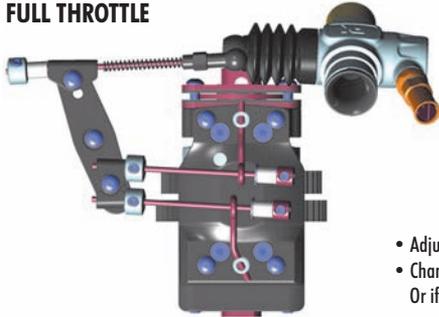
- Turn on the transmitter and receiver and set the engine control servo trim to the neutral position.
- Adjust the idle adjustment screw on the carburetor to open approx. 1mm.
- Adjust both the throttle linkage and brake linkages accordingly.
- DO NOT adjust the linkage with the engine running.



ENGINE IDLING ~1mm

IDLING ADJUSTMENT SCREW.
Use to adjust the idle setting of the carburetor. Do not allow carburetor to close to less than 1mm.

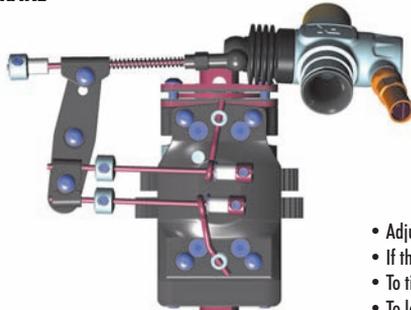
FULL THROTTLE



- Adjust the servo-horn mounting position for the carburetor to open fully.
- Change the pivot mounting position on the servo horn in case the carburetor is not opening fully or if it is opening excessively. Or if available on the transmitter, adjust the throttle high end point.



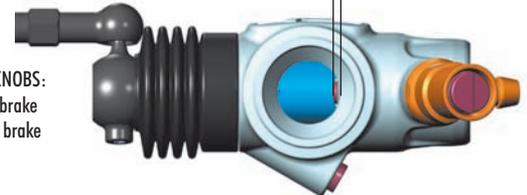
BRAKE



- Adjust the adjustable collars so the brakes work smoothly.
- If the brakes apply too much or not enough, adjust the adjustable collars accordingly. Or if available on the transmitter, adjust the brake endpoint.
- To tighten brakes, turn collar to thread brake rod INTO pivot.
- To loosen brakes, turn collar to thread brake rod OUT of pivot.

ENGINE IDLING cca 1mm

BRAKE ADJUSTING KNOBS:
Upper linkage - rear brake
Lower linkage - front brake



TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
ENGINE DOES NOT START	<ul style="list-style-type: none"> • Fuel tank is empty or carburetor is not primed • Bad glowplug or dead glowdriver battery • Fuel lines, fuel filter, air cleaner, or muffler is clogged • Engine is flooded due to over-priming • Carburetor is not adjusted properly • Throttle servo linkage not adjusted properly 	<ul style="list-style-type: none"> • Fill fuel tank with fuel and prime • Replace glowplug or recharge/replace glowdriver battery • Clean or replace clogged part(s) • Remove glowplug, turn car over to discharge fuel from cylinder. Test glowplug and replace if defective • Set idle and main/slow needle adjusting screw to standard starting position • Move throttle servo to neutral position and re-adjust linkage(s)
ENGINE STARTS BUT THEN STALLS	<ul style="list-style-type: none"> • Fuel tank is empty • Fuel lines, fuel filter, air cleaner, or muffler is clogged • Carburetor is not adjusted properly • Engine has overheated 	<ul style="list-style-type: none"> • Fill fuel tank with fuel • Clean or replace clogged part(s) • Re-adjust idle and main/slow needle adjusting screw • Allow engine to thoroughly cool down and open main needle adjusting screw 30° turn richer (CCW)
BAD REACTION AND RESPONSE FROM ENGINE	<ul style="list-style-type: none"> • Carburetor is not adjusted properly • Fuel lines, fuel filter, air cleaner, or muffler is clogged • Low fuel pressure from muffler 	<ul style="list-style-type: none"> • Re-adjust main/slow needle adjusting screw • Clean or replace clogged part(s) • Properly install pressure line between muffler and fuel tank
CAR IS HARD TO CONTROL	<ul style="list-style-type: none"> • Weak transmitter and/or receiver batteries • Low reception from radio antennas • Servo linkages not adjusted properly 	<ul style="list-style-type: none"> • Recharge or replace batteries • Fully extend transmitter and receiver antennas • Move servo to neutral then re-adjust linkage(s)
STEERING DOES NOT WORK PROPERLY	<ul style="list-style-type: none"> • Weak transmitter and/or receiver batteries • Bent linkages or driveshafts • Loose steering components • Drivetrain damage 	<ul style="list-style-type: none"> • Recharge or replace batteries • Check tightness of steering components and tighten if necessary • Replace damaged parts
HANDLING PROBLEMS	<ul style="list-style-type: none"> • Shocks are not working properly • Suspension is binding • Improper tires 	<ul style="list-style-type: none"> • Rebuild the shocks and replace worn or broken parts • Make sure suspension moves freely. Replace worn or broken parts • Use different tires
STEERING FEELS SLUGGISH OR VAGUE	<ul style="list-style-type: none"> • Suspension is binding • Damaged steering servo 	<ul style="list-style-type: none"> • Make sure suspension moves freely, and replace worn or broken parts • Check the steering servo for damage and wear, and replace/repair if necessary
THE CAR DOES NOT DRIVE STRAIGHT	<ul style="list-style-type: none"> • Suspension is binding • Steering trim is off-center • Wheels are loose • Damaged steering servo 	<ul style="list-style-type: none"> • Make sure suspension moves freely, and replace worn or broken parts • Adjust steering trim until car drives straight • Check the make sure the wheel nuts are properly tightened • Check the steering servo for damage and wear, and replace/repair if necessary

NOTES

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