

INTRODUCTION

The XRAY XT8 is a modern, high-competition premium luxury racing 1/8 nitro truggy that is the epitome of high-performance and fine distinctive design. Your XT8 offers highest performance, responsive handling, and traditionally exceptional XRAY quality, engineering, and design. The superb craftsmanship and attention to detail are clearly evident everywhere on the XRAY XT8.

XT8 was designed around a no compromise platform; the attention to detail creates a low maintenance, extra long life nitro truggy. The ultra-low center of gravity (CG) and optimized weight balance makes set-up, driving, and maintenance easy and quick.

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

Failure to follow these instructions will be considered as abuse and/or neglect.

SAFETY PRECAUTIONS

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

Wash thoroughly after using. DO NOT use product while eating, drinking or using tobacco products. May cause chronic effects to gastrointestinal tract, CNS, kidneys, and blood. MAY CAUSE BIRTH DEFECTS.

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

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

🔼 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.

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.

The XRAY XT8 was created by blending highest-quality materials and excellent design. On high-speed flat tracks or bumpy tracks, whether driving for fun or racing to win, the XT8 delivers outstanding performance, speed, and precision handling.

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

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.

- 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.

- 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

<u> A</u> 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,

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.

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'

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

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 the instructions correctly. Over-charging, incorrect charging, or using inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check and/or repair and/or replacement.

- Regularly check the charger for potential hazards such as damage to the cable, plug, casing or other defects. Ensure that any damage is rectified before using the charger again. Modifying the charger may cause short-circuit or overcharging leading to a serious accident. Therefore do not modify the charger.
- Always unplug charger when recharging is finished.
- Do not recharge battery while battery is still warm. After use, battery retains heat. Wait until it cools down before charging.
- Do not allow any metal part to short circuit the receiver batteries or other electrical/ electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- Please dispose of batteries responsibly. Never put batteries into fire.

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

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

• 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.

maintenance, or user modifications which compromise the integrity of components. Warranty will not cover components that are considered consumable on RC vehicles. XRAY does not pay nor refund shipping on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

Limitations of Liability

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

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

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

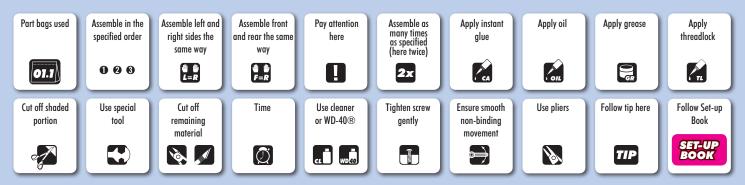
All rights reserved.

you start racing the car. Products which have been worn out, abused, neglected or improperly operated will not be covered under warranty.

We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

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

SYMBOLS USED



TOOLS REQUIRED



Silicone Shock Oil (HUDY #106336 350cSt 100ml) (HUDY #106341 400cSt 100ml)



Silicone Diff Oil (HUDY #106451 5000cSt 100ml) (HUDY #106511 10000cSt 100ml) (HUDY #106516 15000cSt 100ml)

TOOLS & EQUIPMENT INCLUDED

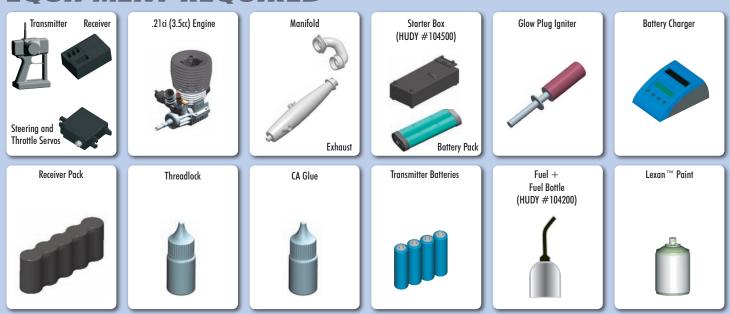


Air Filter Oil (HUDY #106240) Graphite Grease (HUDY #106210)

NOT INCLUDED

To ensure that you always have access to the most up-to-date version of the XRAY Set-up Book, XRAY will now be offering only the digital online version 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

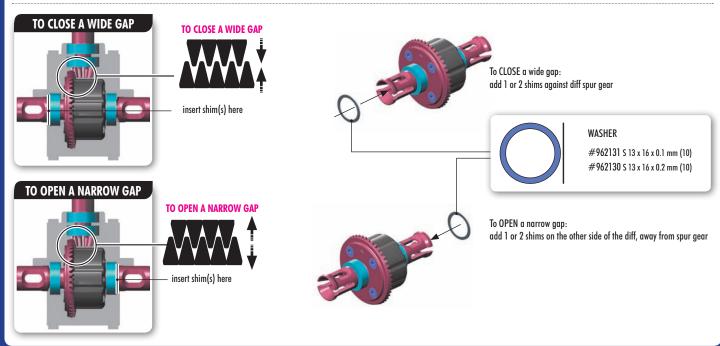


XT8 TECH TIPS

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:



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[™] used in the car is the strong 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.



Do not use drive shafts when the pins are worn.

Press out the worn pins.

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.

TIP INSTALLING PIVOT BALLS INTO COMPOSITE BALL-JOINTS



and use a screw to tighten it to an

engine mount or some other part.



Tighten screw until pivot ball is tight against block.





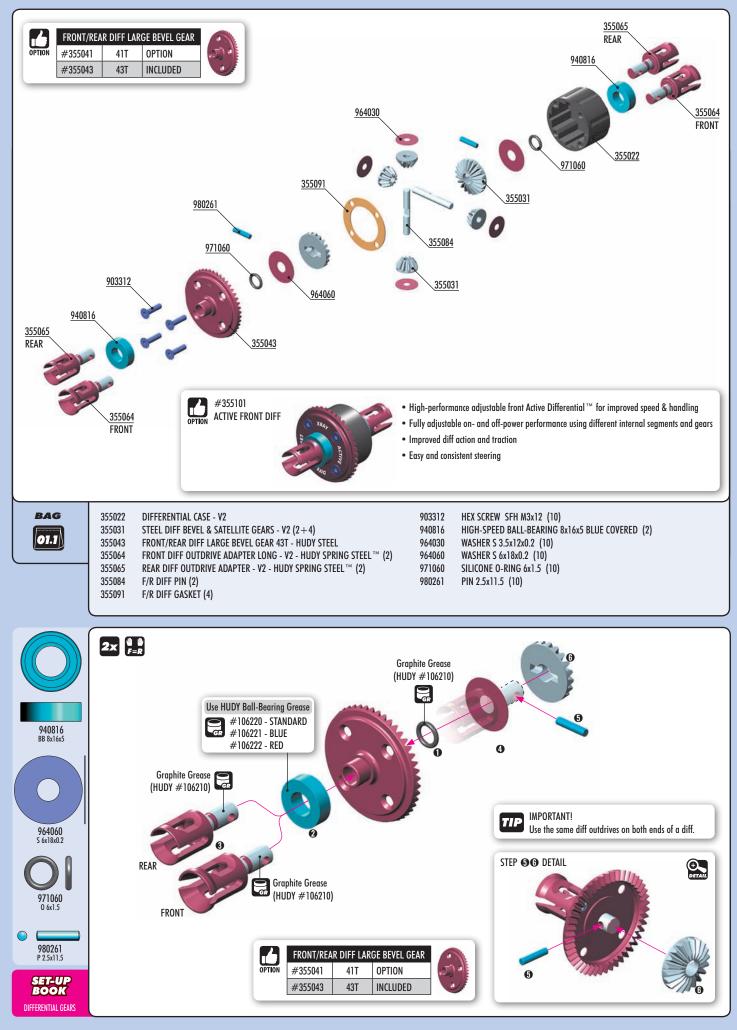


The finished joint.

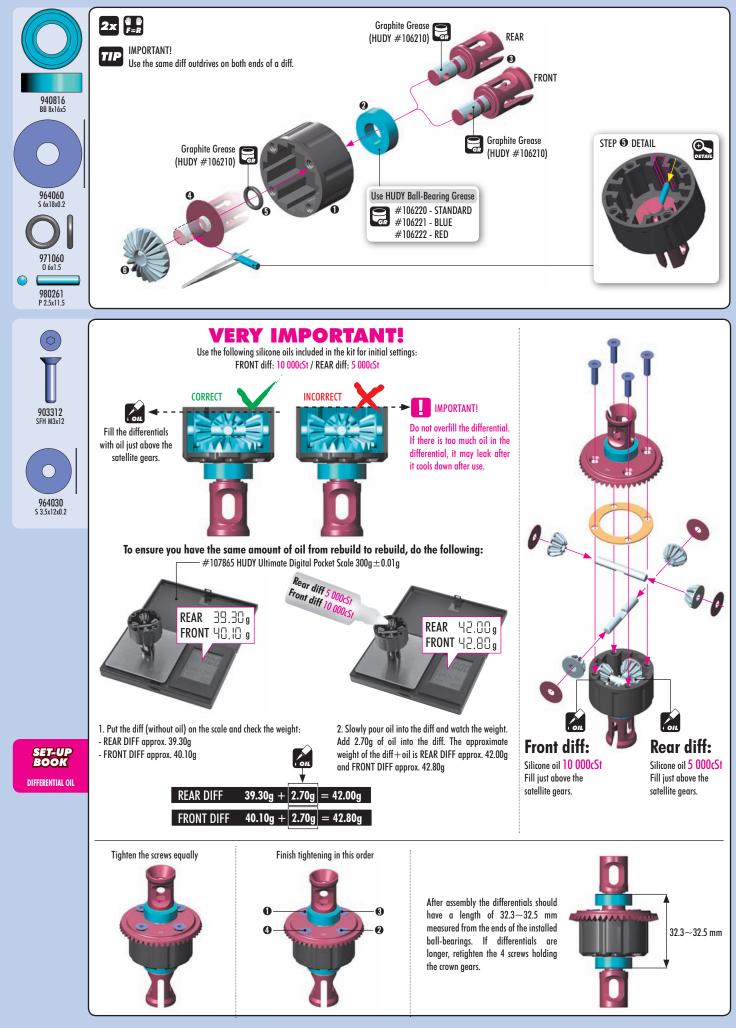


Loosen and remove screw.

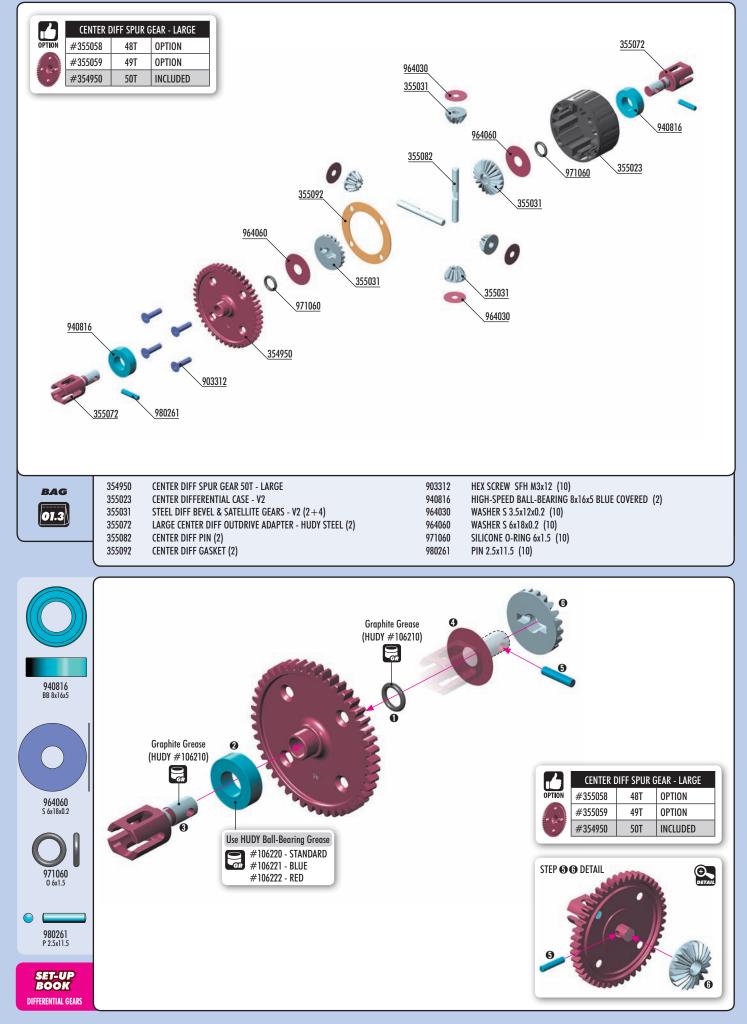
1. FRONT & REAR DIFFERENTIALS



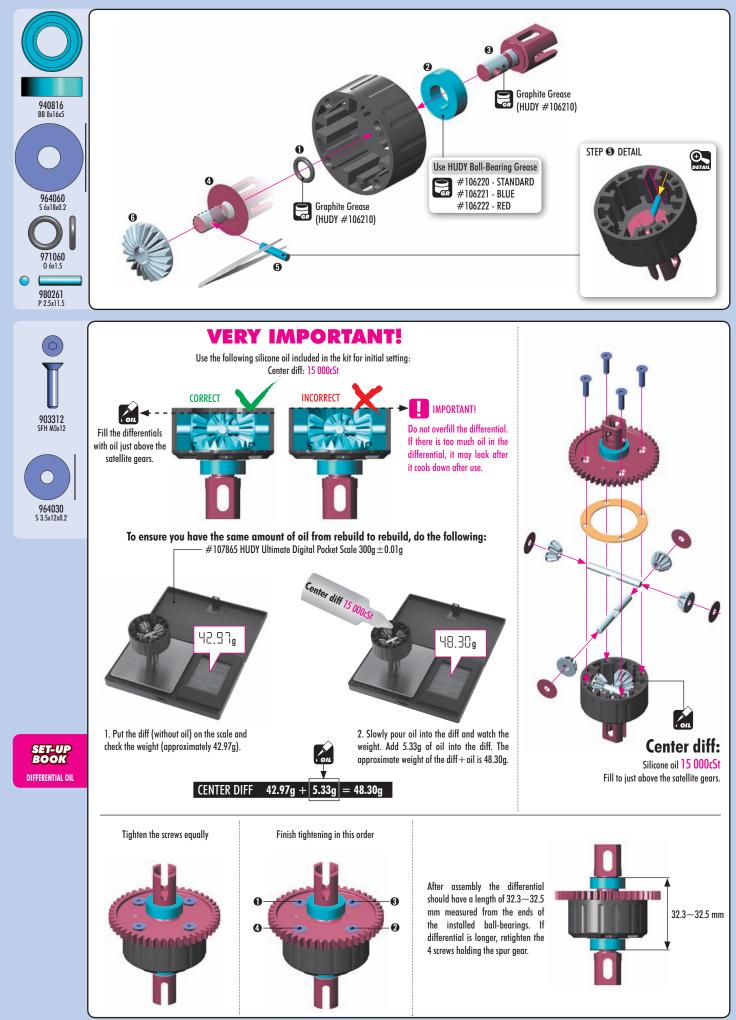
1. FRONT & REAR DIFFERENTIALS



1. CENTER DIFFERENTIAL

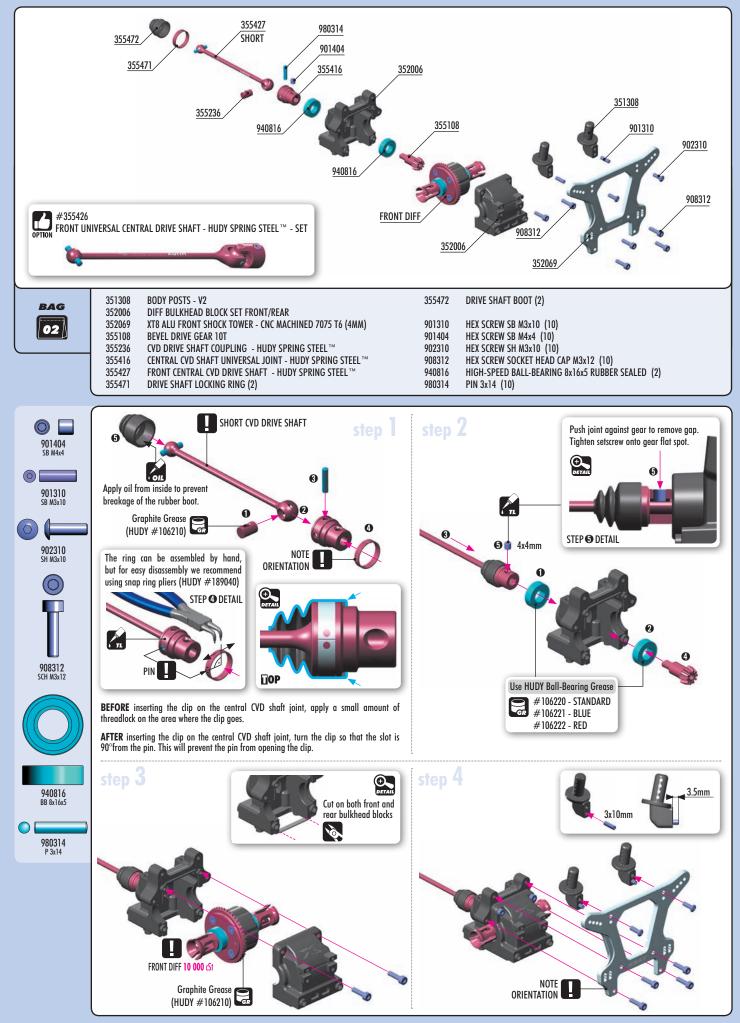


1. CENTER DIFFERENTIAL

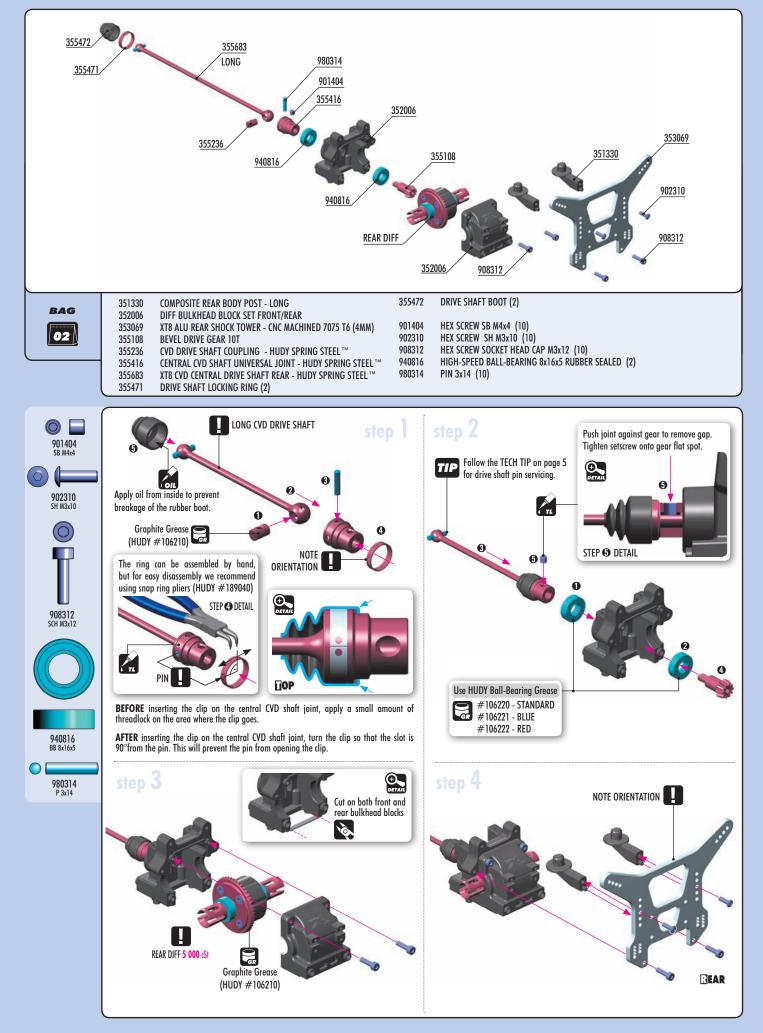


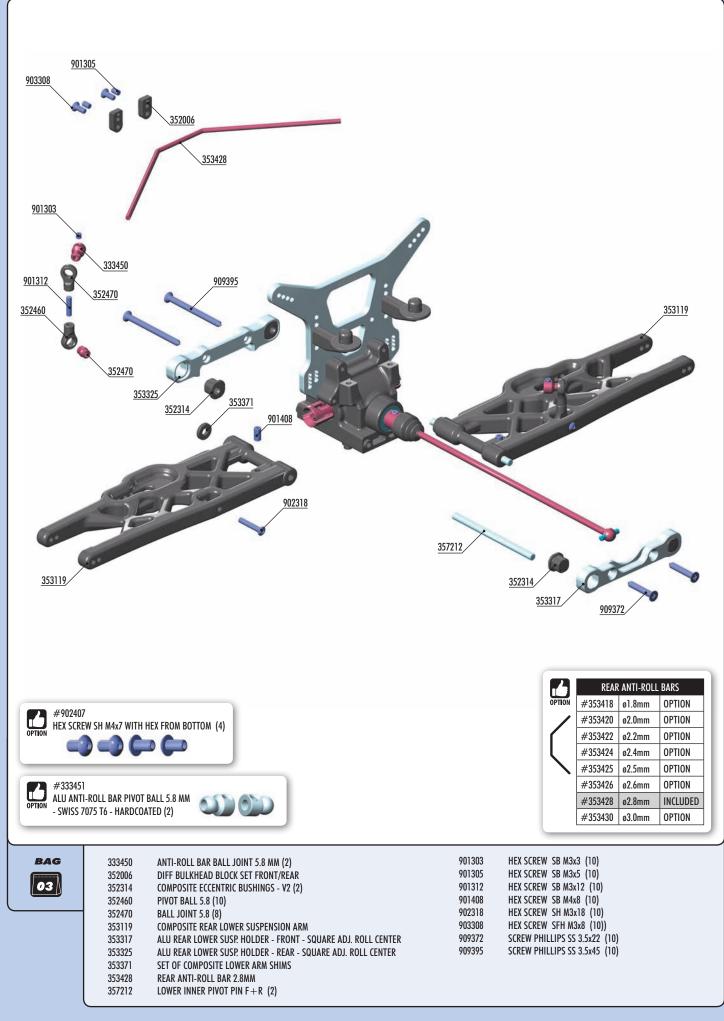
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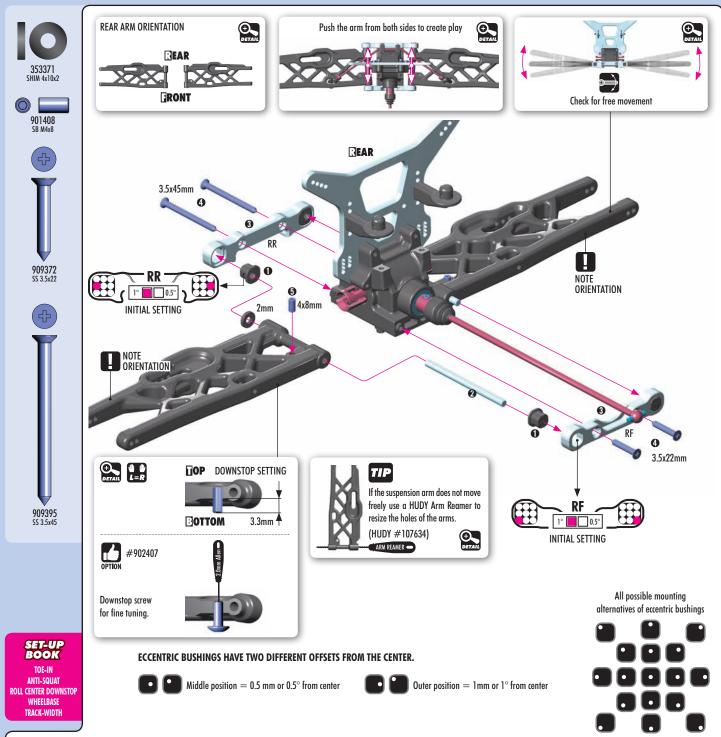
2. FRONT TRANSMISSION



2. REAR TRANSMISSION

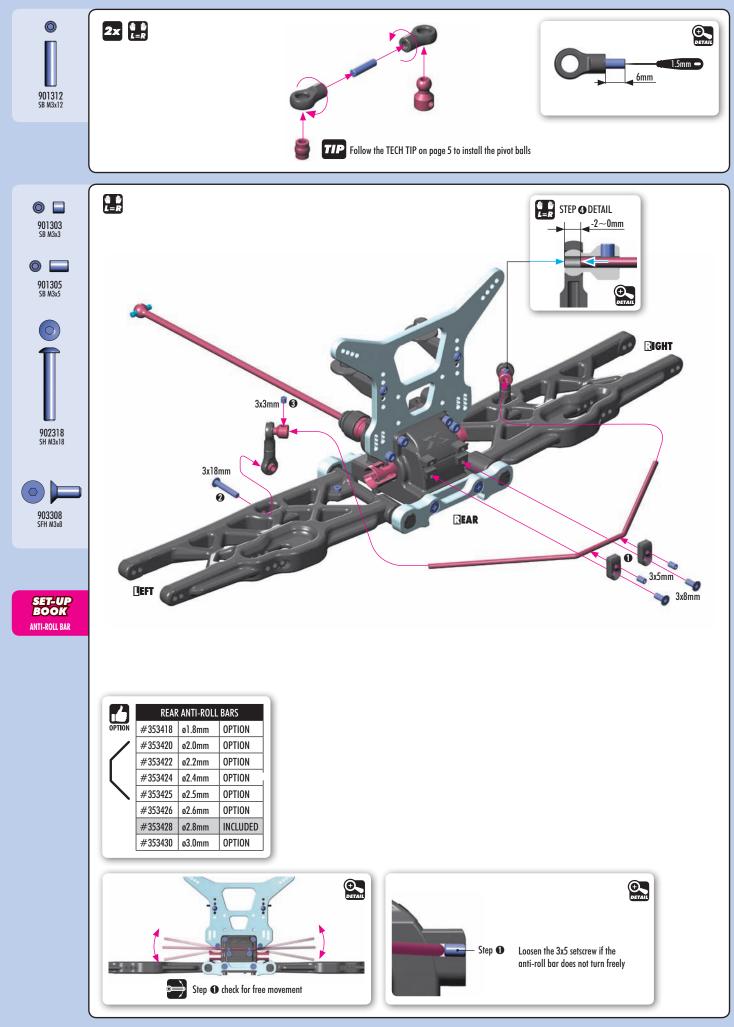


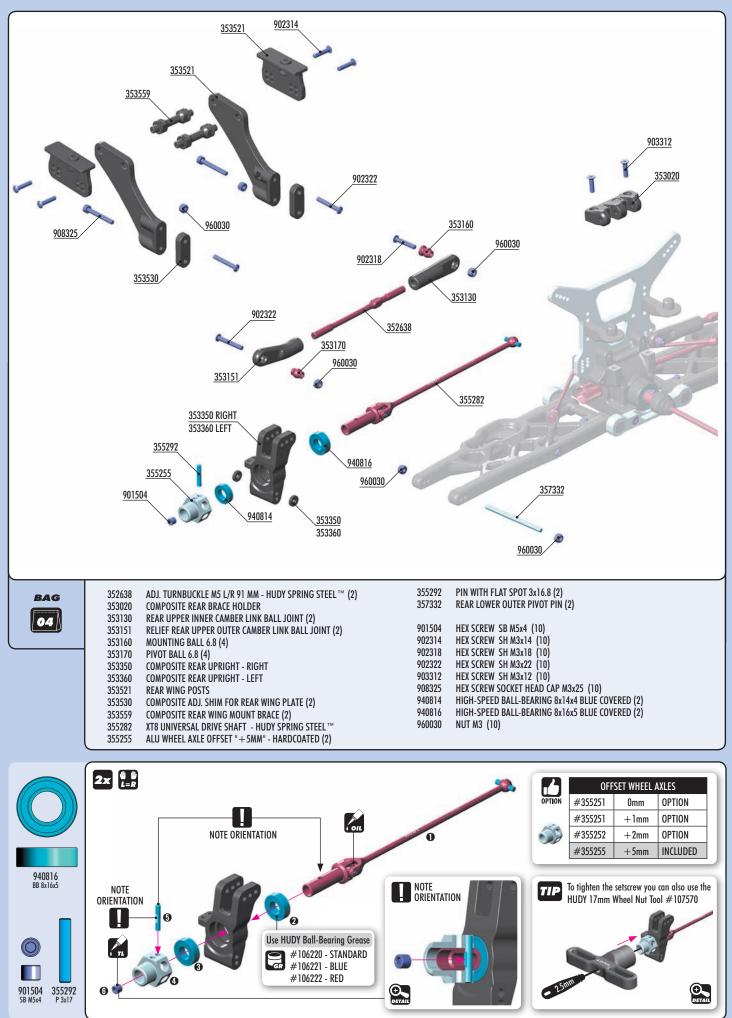


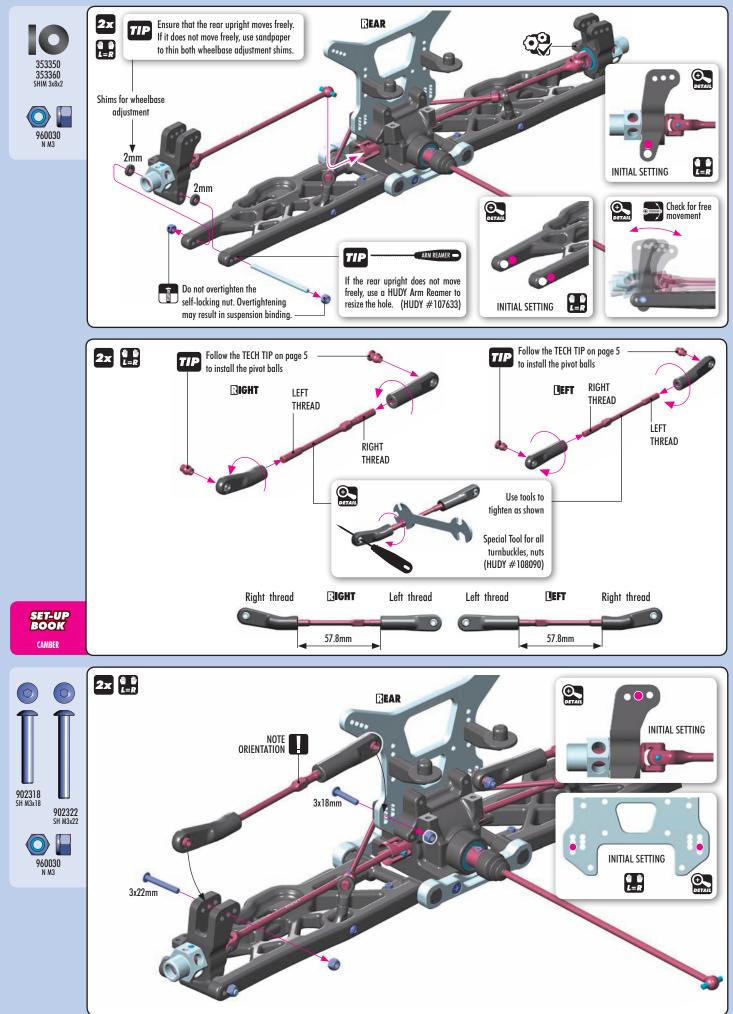


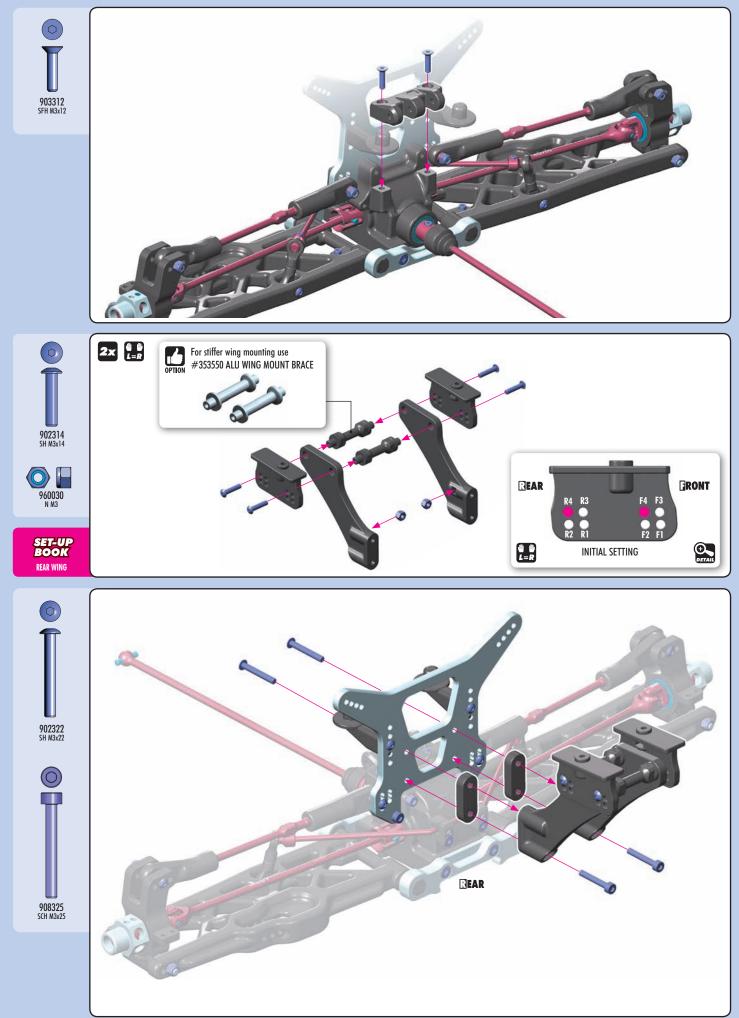
The XRAY rear alu lower suspension holders provide even greater range of adjustment for the rear suspension. Using different combinations of eccentric bushings, fine adjustment of rear anti-squat, rear toe-in, rear roll center, and rear track-width on car handling, please refer to HUDY Off-Road Set-up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

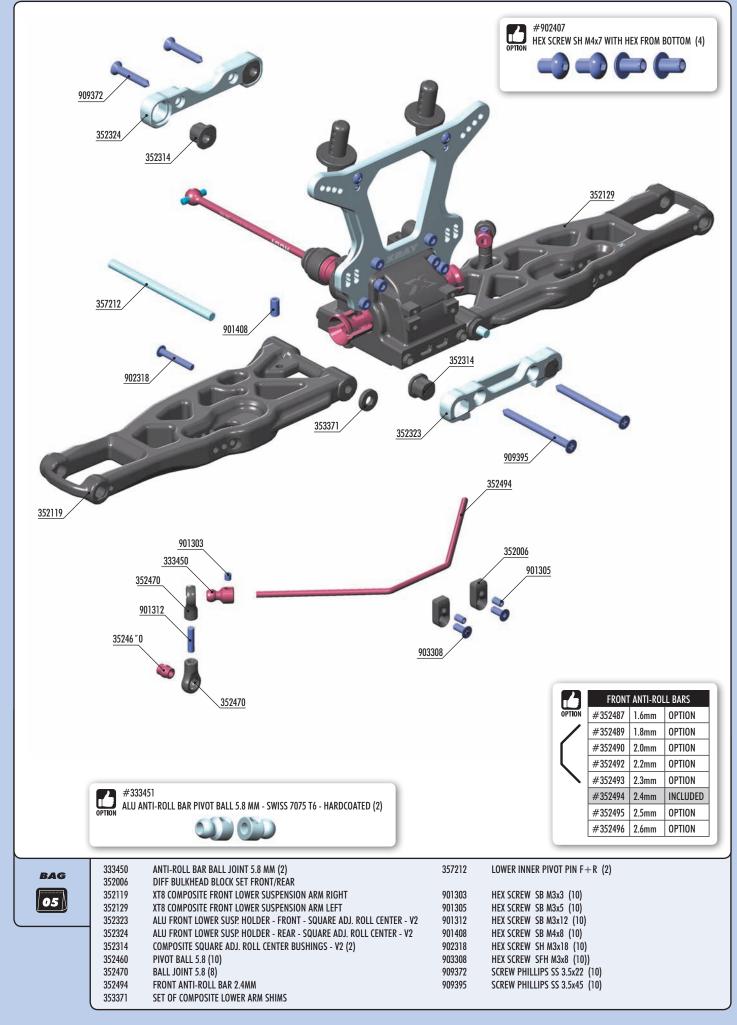
ANTI-SQUAT	ROLL CENTER	TRACK-WIDTH	TOE-IN
$\begin{array}{c c} RR & RF & (°) \\ \hline \bullet & \bullet & \bullet & \bullet \\ \hline \bullet & \bullet & \bullet & \bullet \\ \hline \bullet & \bullet & \bullet & \bullet \\ \hline \bullet & \bullet & \bullet & \bullet \\ \hline \bullet & \bullet & \bullet & \bullet \\ \hline \bullet & \bullet & \bullet & \bullet \\ \hline \end{array}$	RR RF (mm)	RR RF (mm)	$\begin{array}{c c} RR & RF & (°) \\ \hline \bullet & \bullet & \bullet & \bullet \\ \hline \bullet & \\ \bullet & \bullet \\ \hline \bullet$
•••••••••••=2°	••••••••••••••••••••••••••••••••••••••		•••••• =2°
••••••=4°	The tables describe the amounts of rear anti-squa		
 =3°	on the combinations of eccentric bushings used with the half change.		
		Anti-Squat Example:	
••••• =2°	$O(RR) - O(RF) = 3^{\circ}$		••••••••=4°
	0(RR) - 0.5 (RF) = 3.5° 💽		• • • • • =5°
	$O(RR) - 1 (RF) = 4^{\circ}$		





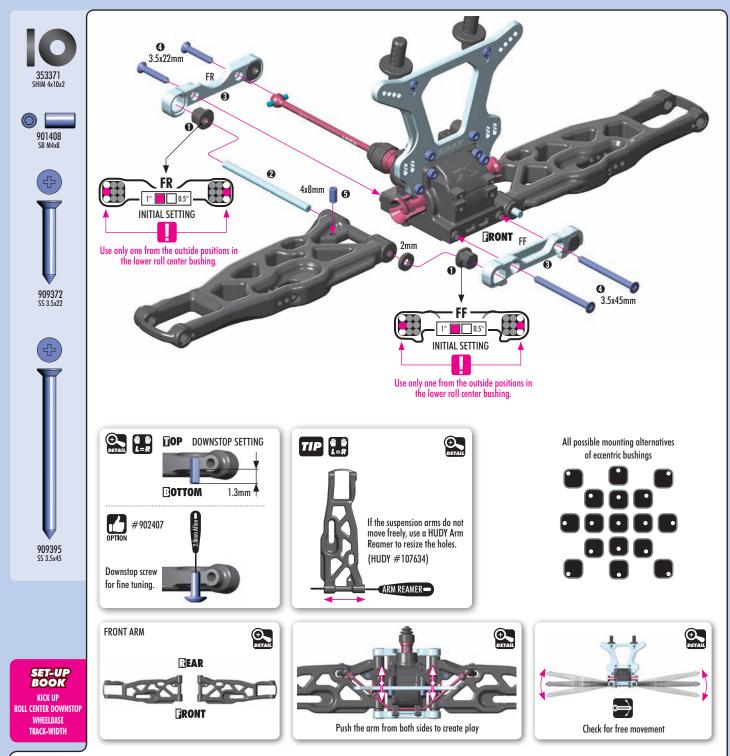






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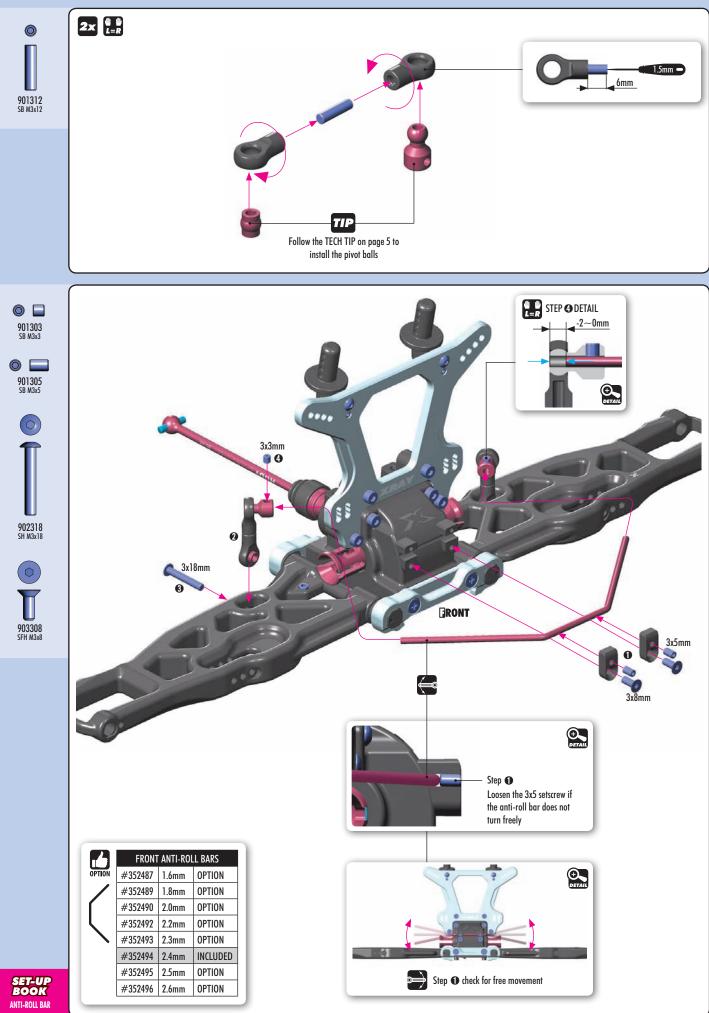
The new XRAY alu front lower suspension holders provide even greater range of adjustment for the front suspension. Using different combinations of eccentric bushings, you can obtain fine adjustment of front kick-up and roll center. For more information about the influence of kick-up and roll centers on car handling, please refer to HUDY Off-Road Set-up Book (#209099).

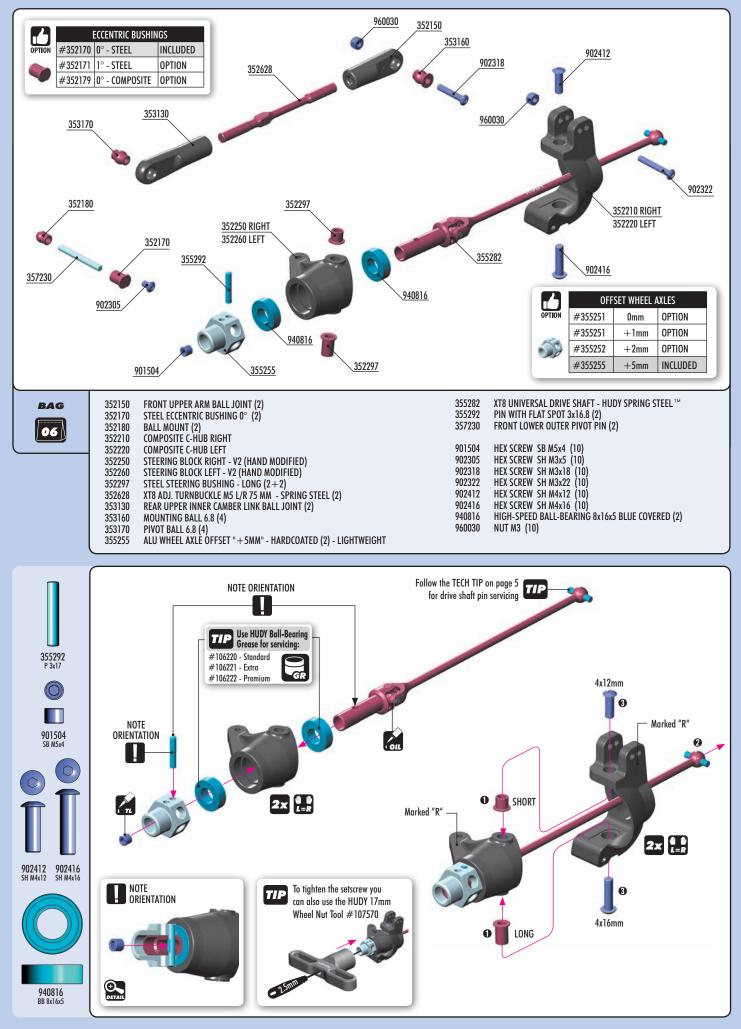
KICK-UP						
FF	FR (°)					
	••••=6°					
	 =5°					
	. – – – – 7°					
	•••• =5°					
	 =4°					
	. =6°					
	••••• =7°					
	 =6°					
	 =8°					

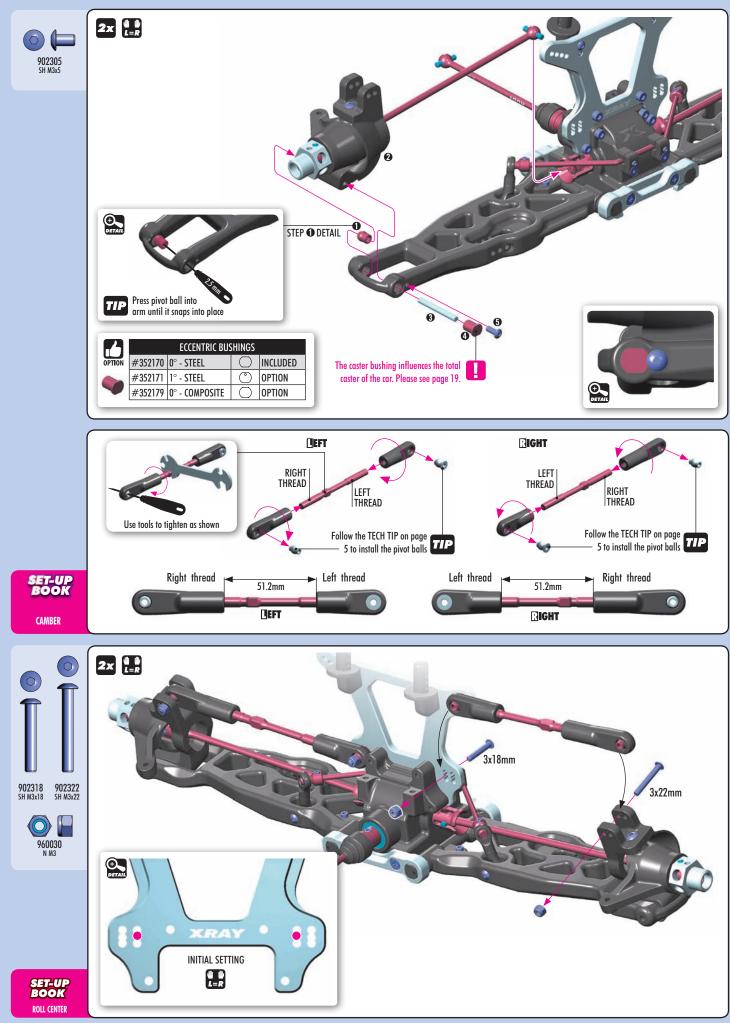
ROLL-CENTER	
FF FR (mm)	
The tables below describe the amounts of kick-up, change depending on the combinations o eccentric bushings used with 0 and 1mm, 1° off set. The 0.5mm, 0.5° represent the half change.	f
Example:	
$0(FF) - 0(FR) = 6^{\circ} \qquad \bigcirc \qquad \checkmark Particular = 6^{\circ}$	
$0.5(FF) - 0(FR) = 6.5^{\circ}$	0
$1(FF) - 0(FR) = 7^{\circ} \qquad \textcircled{2} \qquad \textcircled{2}$	

TOTAL CASTER = C-HUB CASTER + CASTER ECCENTRIC BUSHING + KICK-UP								
	KICK-UP							
C-Hub Caster	4°	5°	6°	7°	8 °			
16° 🕐	20 °	21°	22°	23°	24°			
15° 🔘	19°	20°	21°	22°	23°			
14° 🕟	18°	19°	20°	21 °	22°			

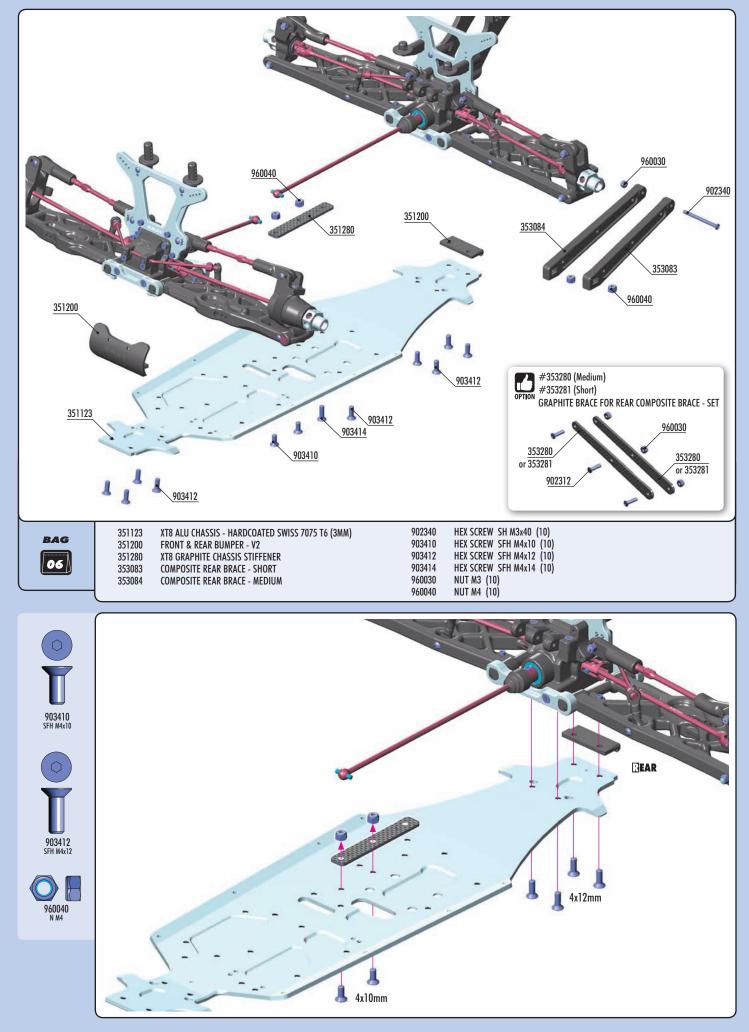
Total caster is the angle that the C-hub is to the flat chassis bottom. Caster is affected not only by front kick up but also by the C-hub caster and caster eccentric bushing. The combination of all three represents the total caster angle. The XT8 includes a 15°caster block with the centric bushing. 1 and 2mm eccentric bushings can be purchased as options.



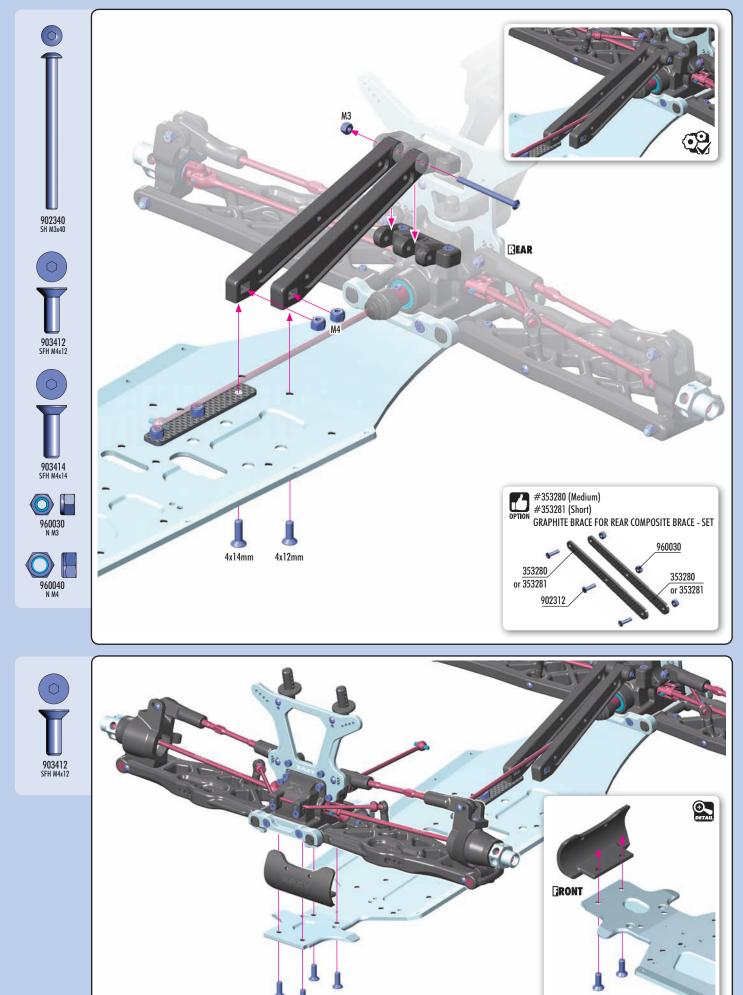




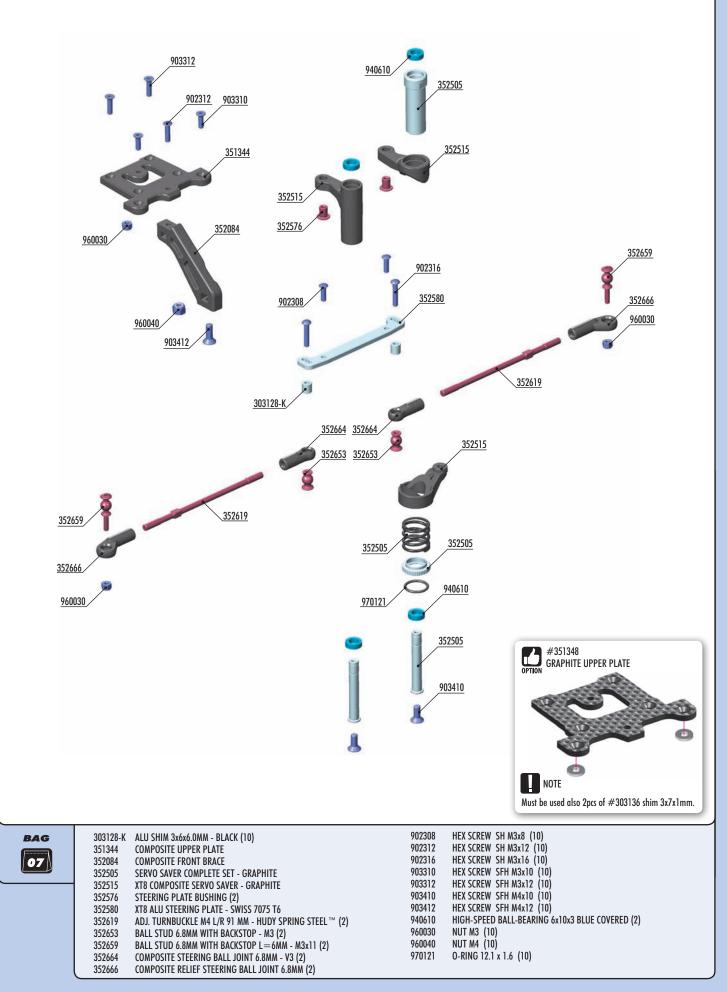
6. FRONT & REAR ASSEMBLY



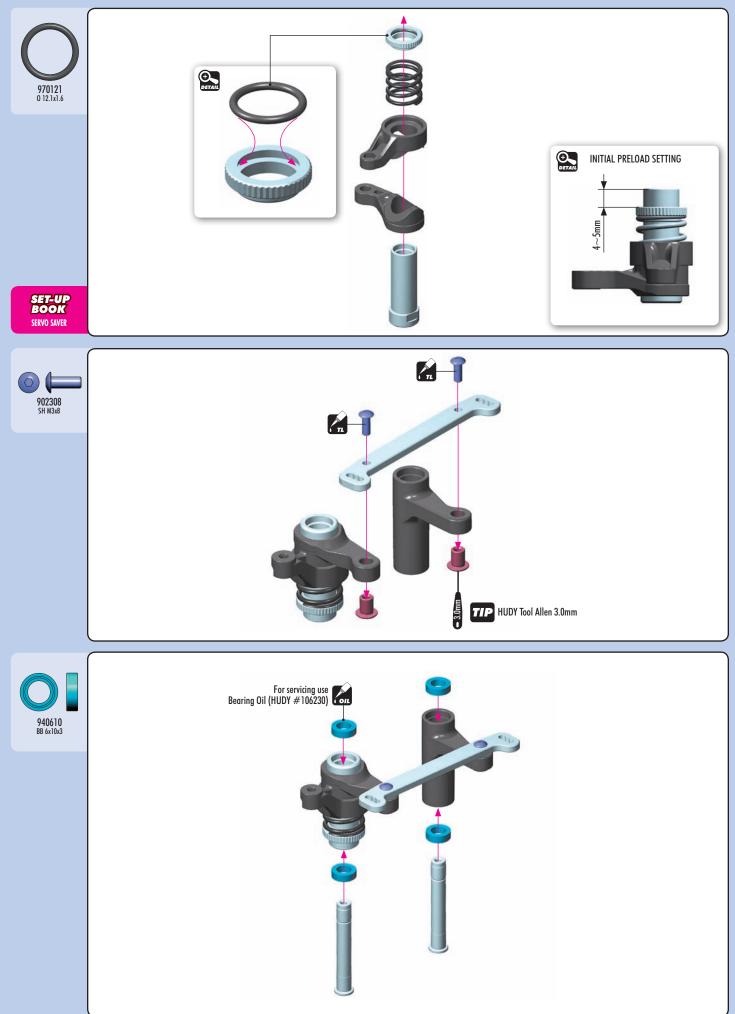
6. FRONT & REAR ASSEMBLY



7. STEERING

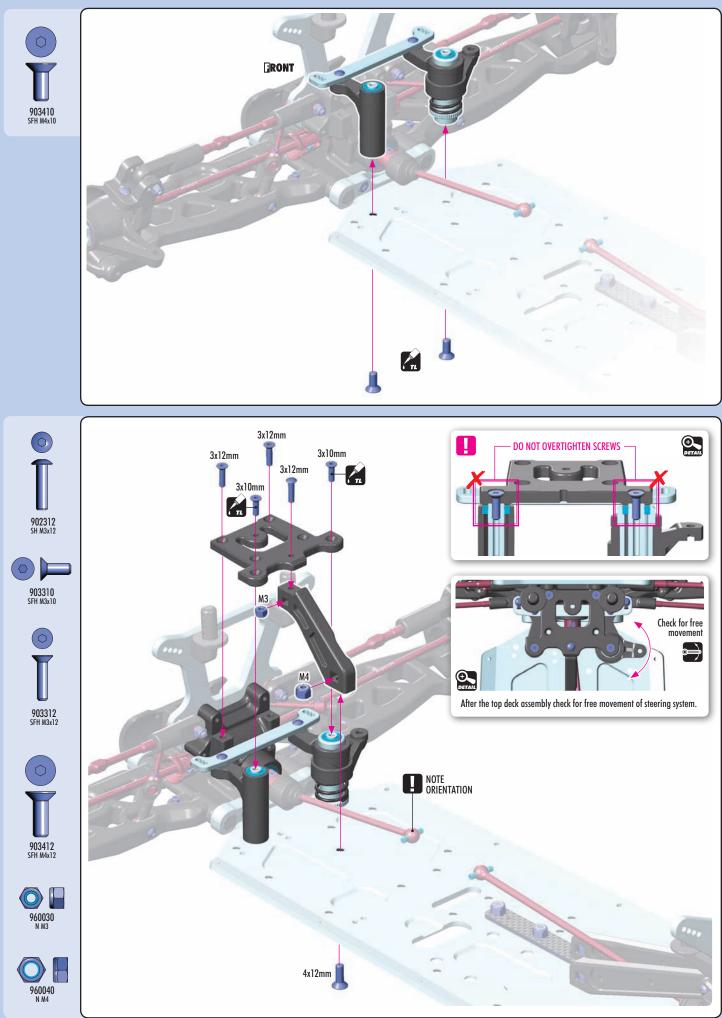


7. STEERING

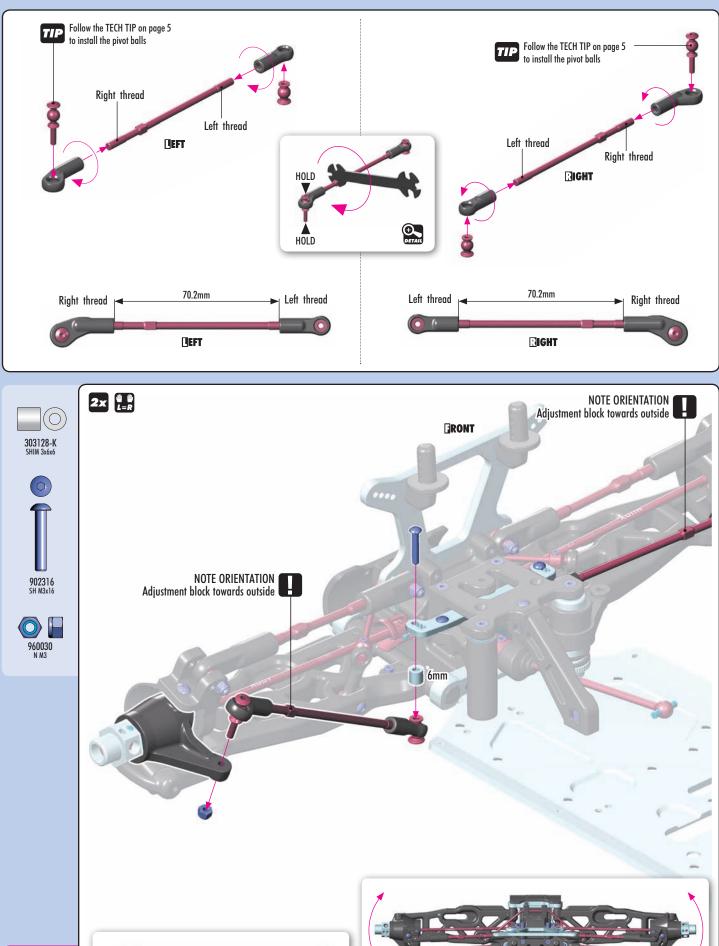




7. STEERING



7. STEERING

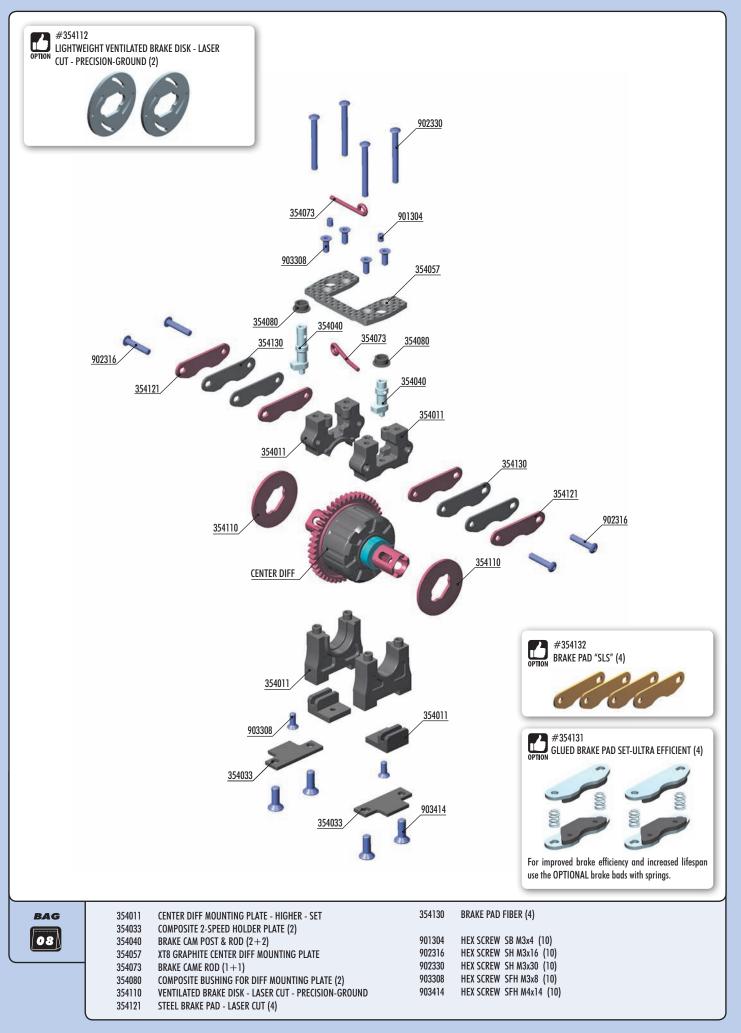


Check for free movement

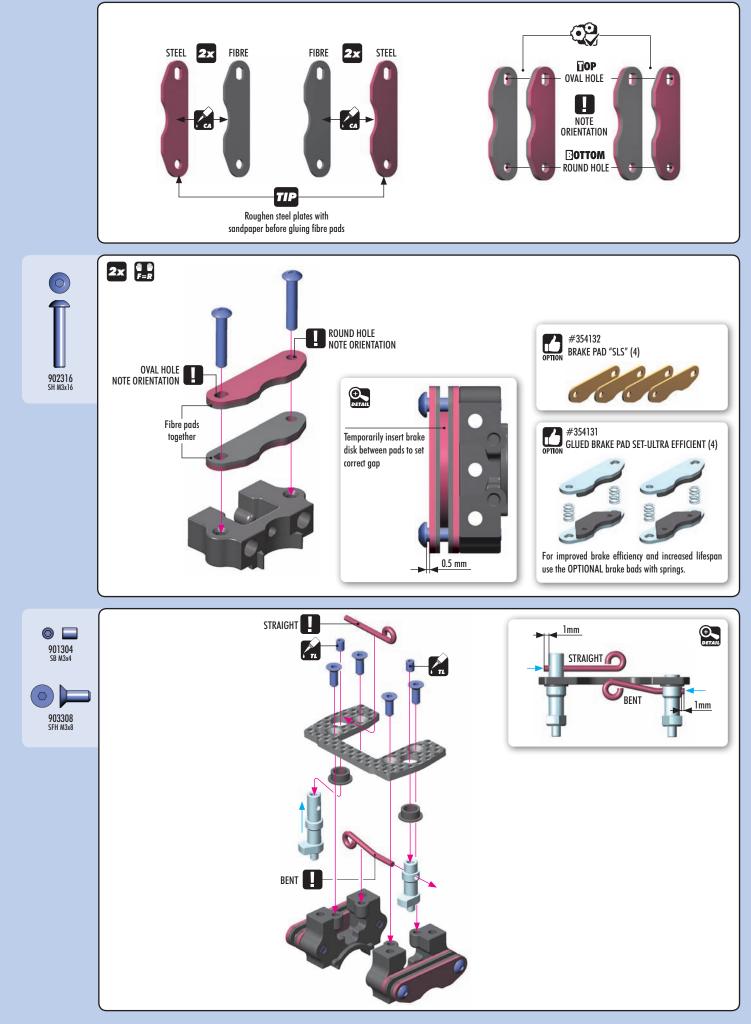
SET-UP BOOK ACKERMANN BUMP STEER TOE-IN INITIAL POSITION

Check for free movement

8. CENTER DIFF & BRAKE

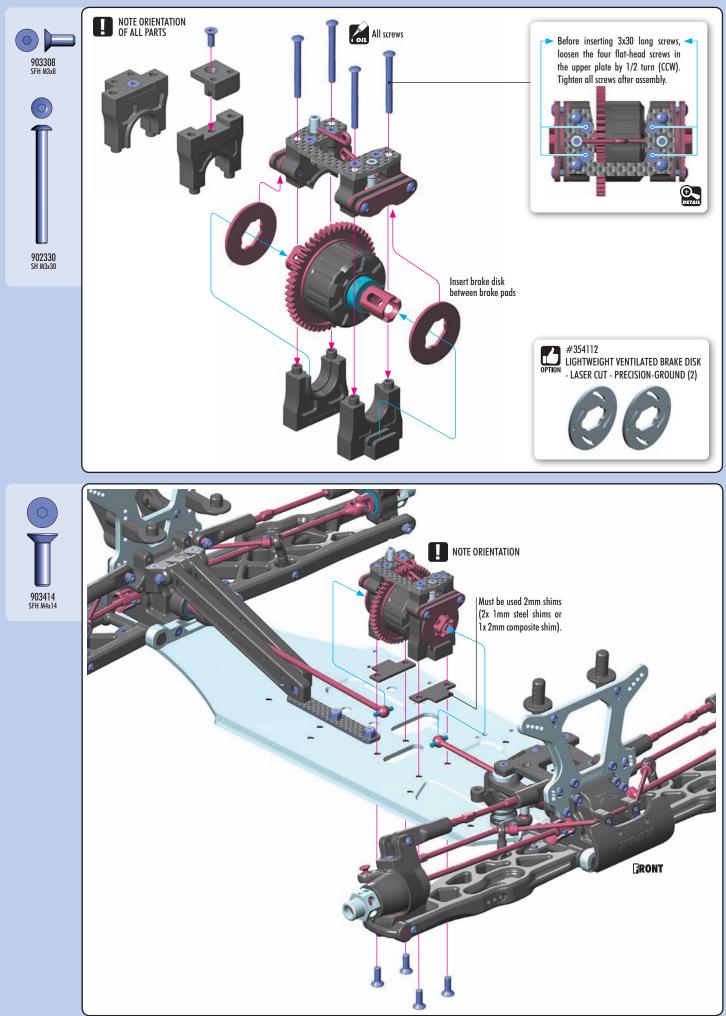


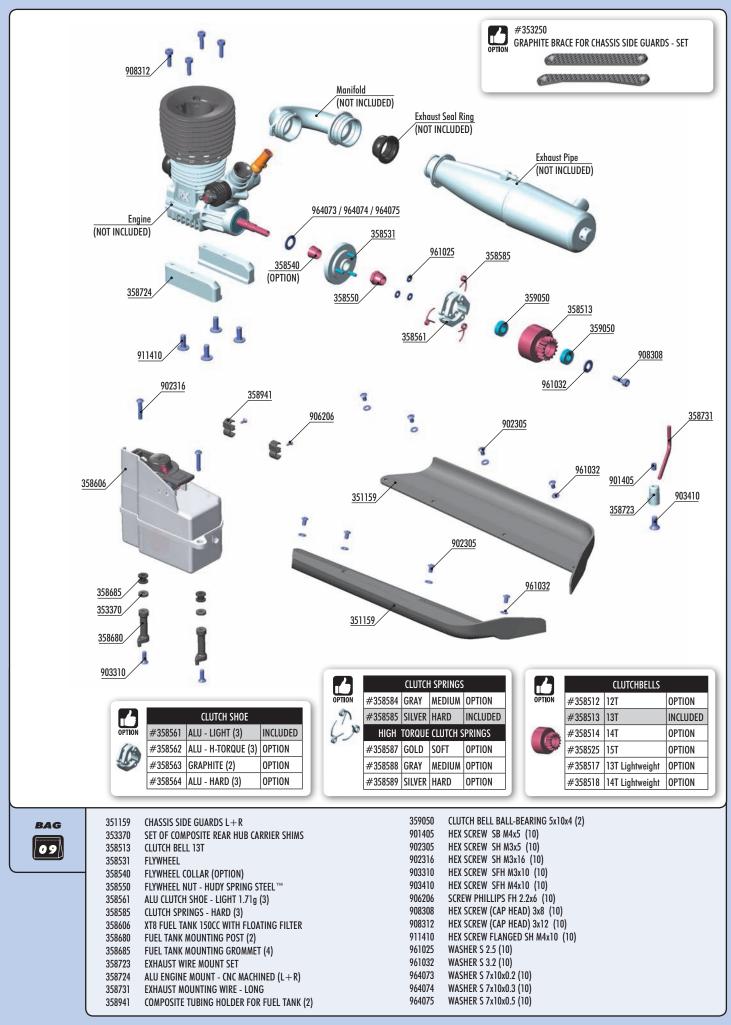
8. CENTER DIFF & BRAKE



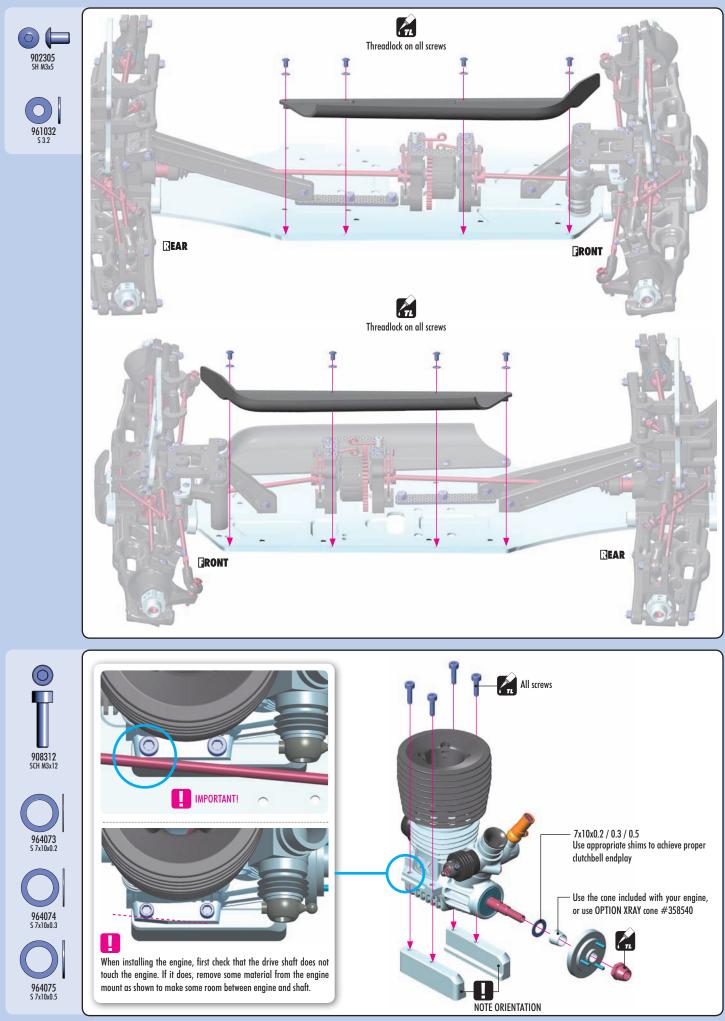


8. CENTER DIFF & BRAKE

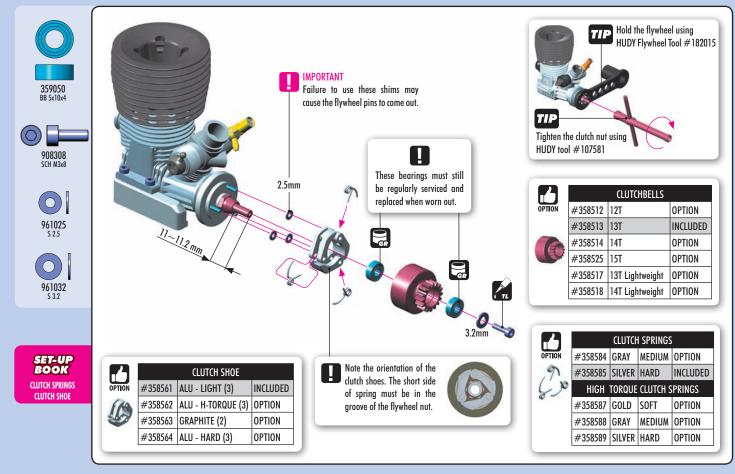


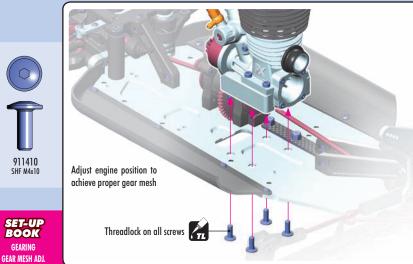






KTB'1Z



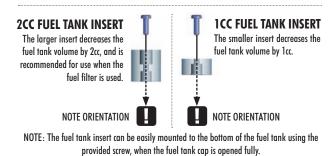


EXTREMELY IMPORTANT

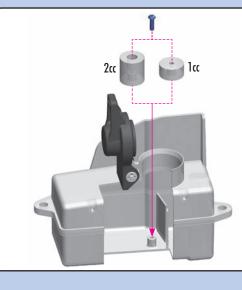
It is very important that your XT8 has properly-adjusted gear mesh. Adjust the gear mesh so there is adequate (or slightly larger) space between the spur gear and clutchbell teeth. Adjust the gear mesh by sliding the engine mounts in the slots of the chassis. You should be able to rock one gear back and forth slightly while holding the other one firmly. Be sure to check the gear mesh all the way around the spur gear. Tighten the screws once the engine alignment and gear mesh are correct, and then re-check the gear mesh to ensure the engine mounts did not move.

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.

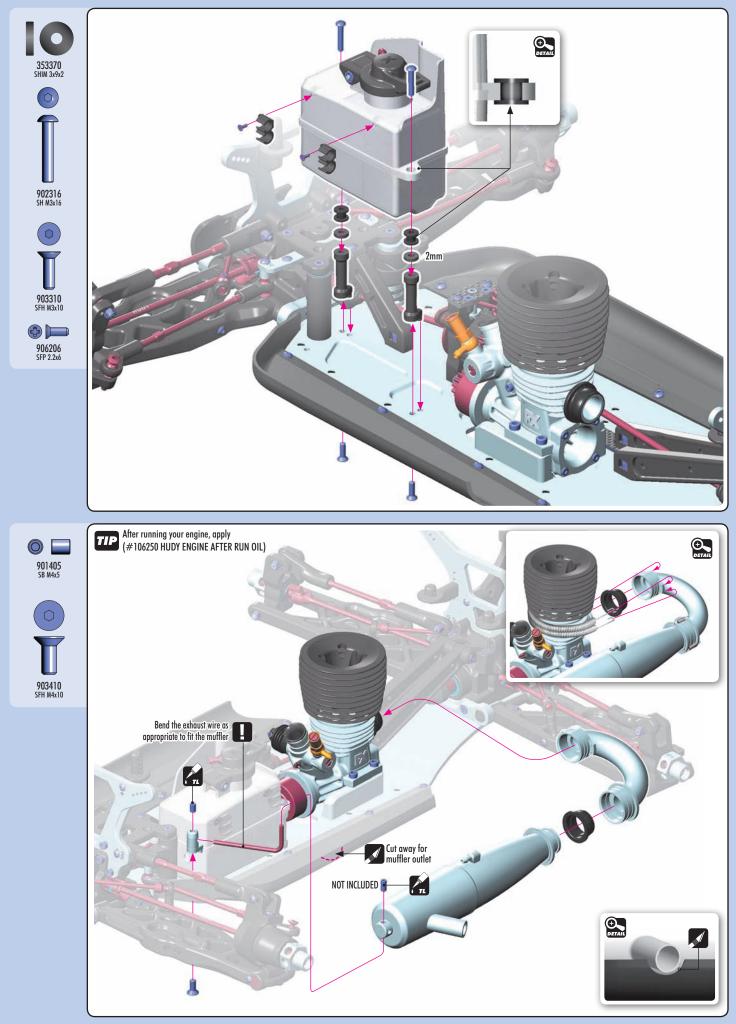
Tube holders are easily connected to the fuel tank by screws. Using screws is much more secure than using glue to attach the holders to the fuel tank.



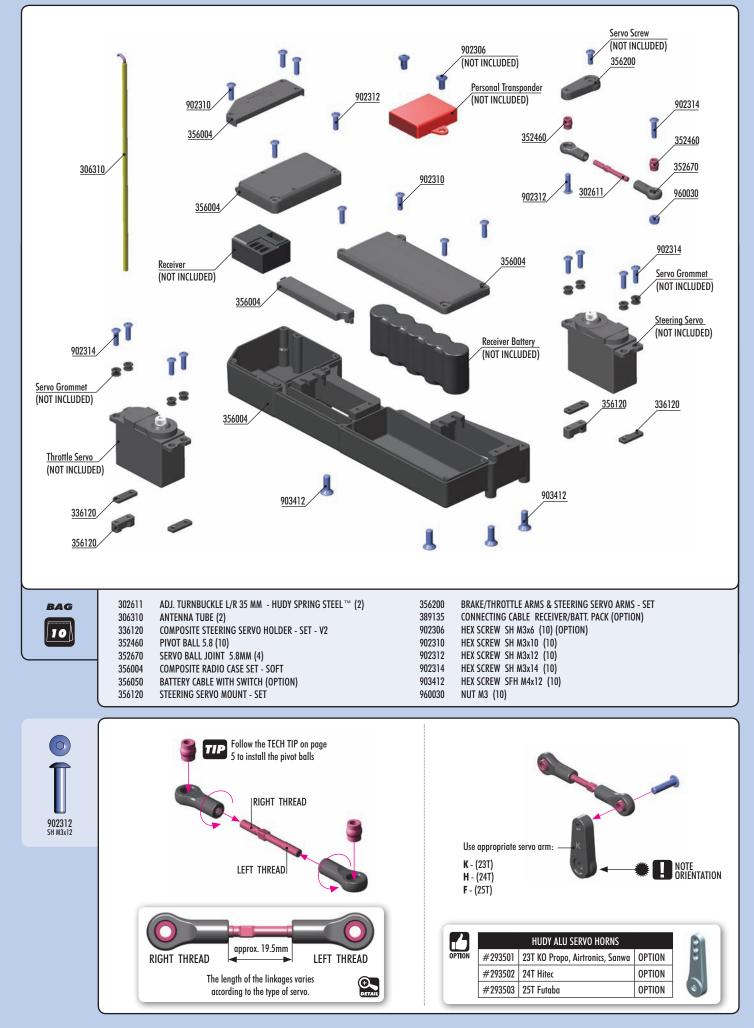
A 🔪



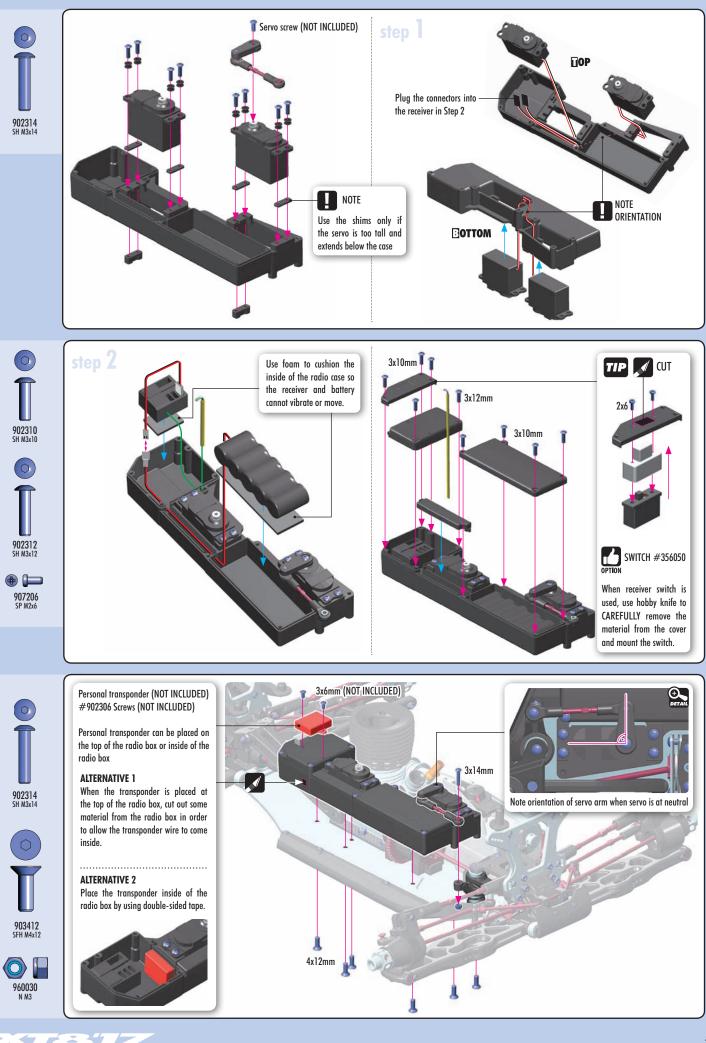
907258 SP 2.5x8



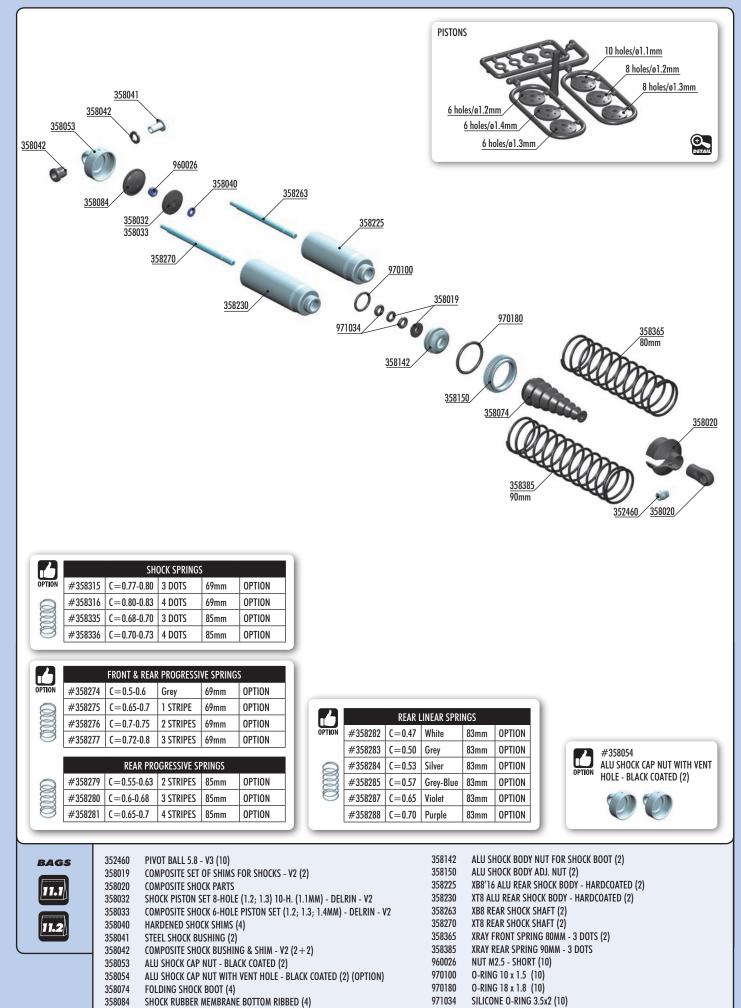
10. RADIO CASE

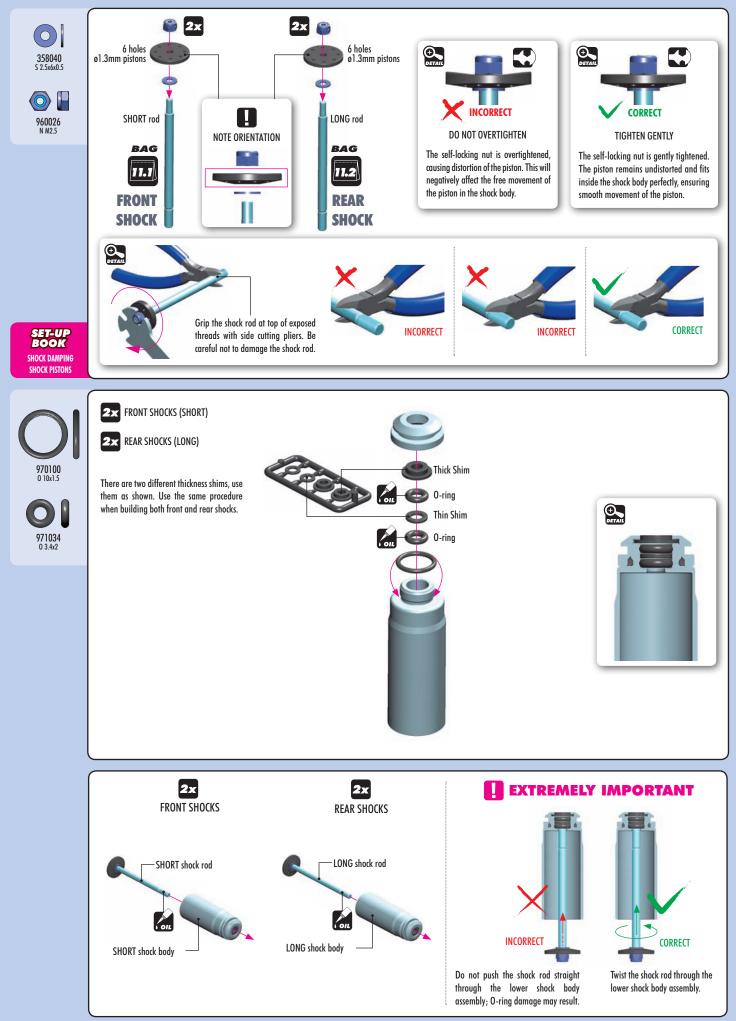


10. RADIO CASE

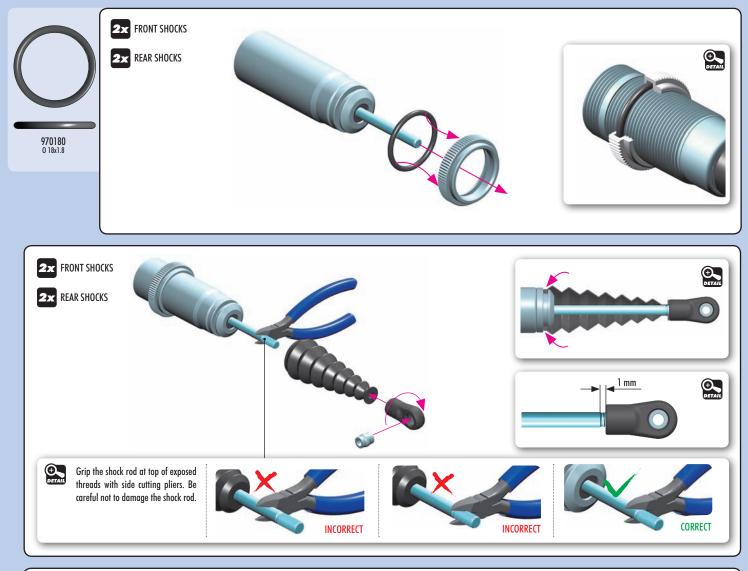


É









DEFAULT SHOCK REBOUND SETTING 0% (LOW REBOUND) Follow the steps below to set the shock rebound to the default setting of 0%. FRONT (SHORT) Oil 400cSt HALF TIGHTEN BOOK **2xx** REAR (LONG) Oil 350cSt 50% SHOCK OII Ø 011 **(** 3~5x UP & DOWN

Orient the filled shock

minutes with the shock

shaft fully extended. The

remaining air bubbles will

for several

Ø

Install the shock membrane

into the groove in the

upper shock cap.

0

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

shock cap.

0

vertically

release.

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

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

> -.

-

TIGHTEN FULLY

100%

0

Move the shock shaft up and

down a few times to release

the air bubbles trapped

beneath the piston.

0

Extend the shock shaft

completely. Fill the shock

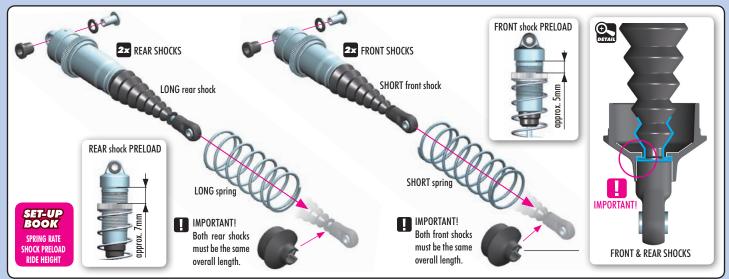
body with the shock oil.

For the FRONT shocks

(short) use 400cSt oil. For

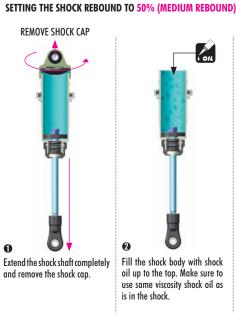
the REAR shocks (long) use

350cSt oil.



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.







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



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



the shock body. Excess oil will bleed thgrough the hole in the shock cap.

4



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)

is in the shock.



Extend the shock shaft completely and remove the shock cap

O



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

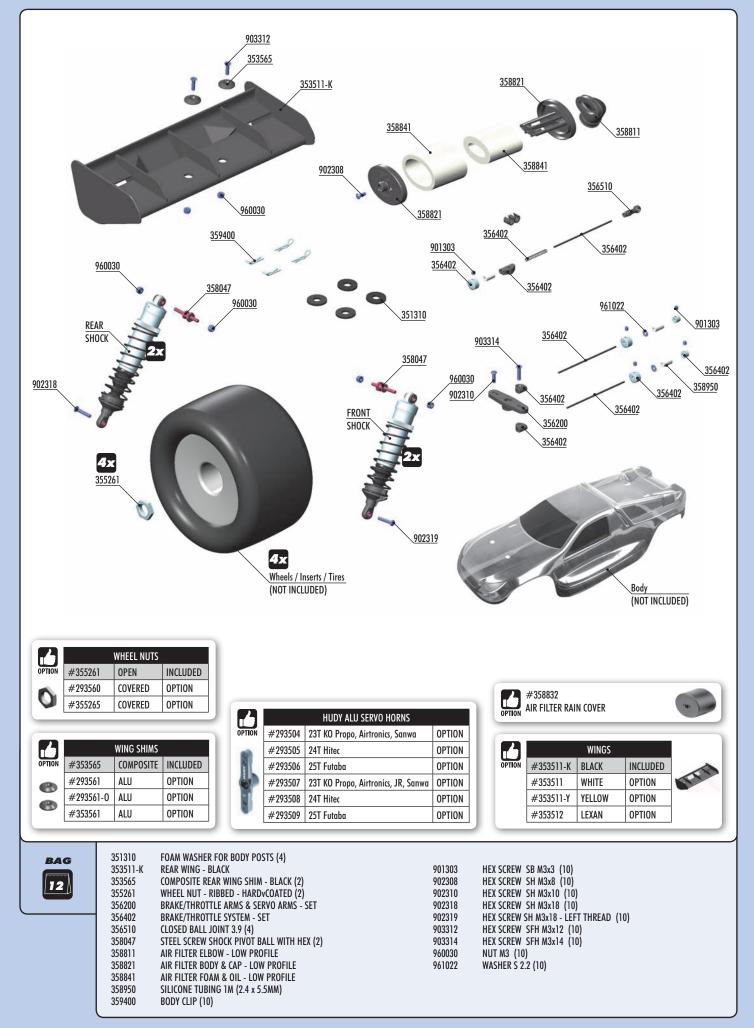


Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.

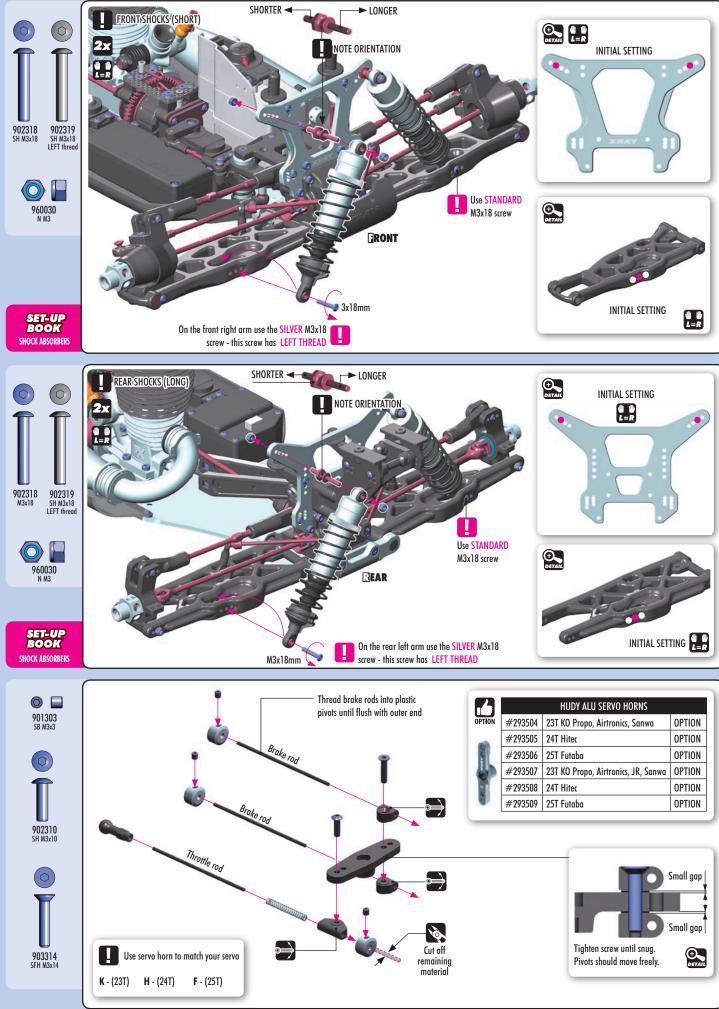
6

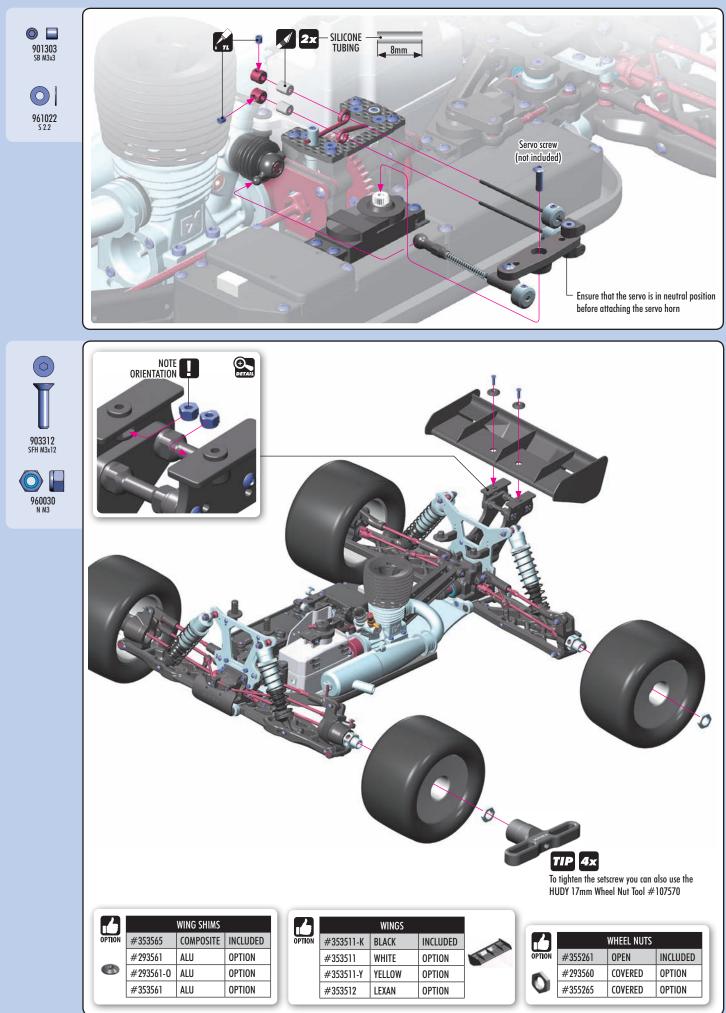


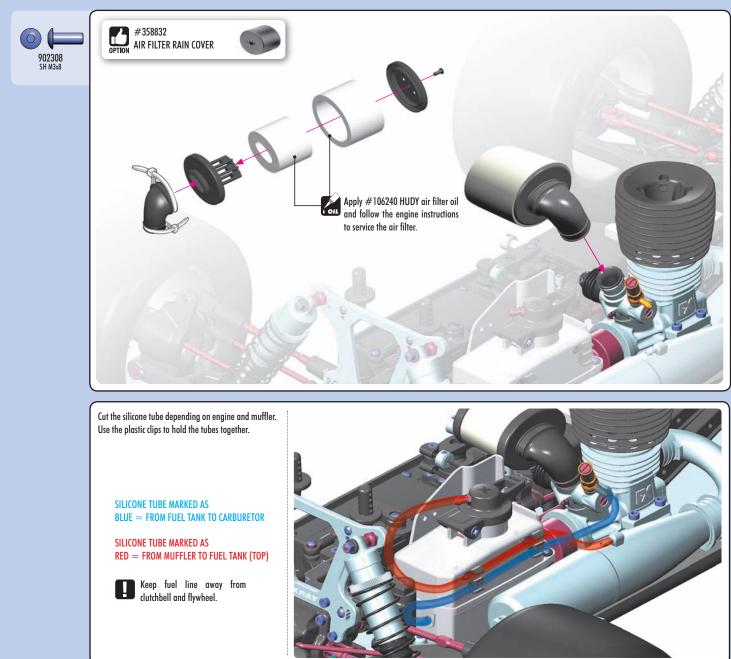
Gently place the shock cap assembly onto the filled shock body. Keep the shock shaft extended 100% from the shock body and tighten the shock cap completely. The rebound will be at approximately 100%.











- Defore 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.
- Ø Before painting, wash the inside of the body with mild detergent, and then rinse and dry thoroughly.
 Ø Mask all windows.
- Apply paint masks as appropriate.

- Paint the body using paints formulated for polycarbonate bodies.
- When the paint is dry, remove the masking.
- Carefully cut out the body using appropriate scissors or cutting tools.
- ⁽³⁾ When you have finished cutting, peel off the external protective films.





THROTTLE LINKAGE ADJUSTMENT

high end point.

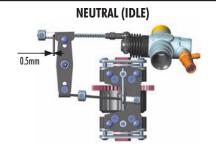
FULL THROTTLE

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



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.

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



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

MAINTENANCE

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 ari filter is clean and ailed. Never run your engine without an air filter. Your engine can be seriously damaged if dirt and debris get inside the engine.

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. Put fuel in the fuel tank, and close the cap securely. Apply the glow igniter to the engine glowplug. 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
- Make sure the transmitter and receiver batteries are fully charged. 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. Fut the car on the starter box and keep the first from touching the ground. 2.
- Turn on the transmitter.
- Turn on the receiver in the car. 6 Make sure the steering servo and engine servos work normally and adjust them correctly.

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.

FINISHING OPERATIONS

Stop the engine. Turn off the receiver in the car 1.

MAINTENANCE AFTER RUNNING

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

Do not leave fuel in the tank. Go outside to drain any residual fuel from the exhaust pipe.

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 rold fully into the body whell listening for any air making a "whistling" or "squishy" sound as it passes through the piston hose. If you hear any air, refill and bleed your shocks. For high-competition racing, it is recommended that the shocks be re-filled and bleed before a large

Turn off the transmitter

ball joints as needed

8. 9.

3.

in the new engine properly). When the engine has started, remove the glow igniter. When the engine has started, remove the glow igniter.
 Follow your engine break-in procedure and tune the engine as appropriate.

Clean the car and remove all sand, mud, and other debris. Use after-run oil in your engine after you have finished running for the day.

and joins as neareau. 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 shock; (if present) and regularly replace with a new one. During regular shock operation, oi 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.

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

HUDY Premium Bearing Grase #106222

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.

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.

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

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 with duready come greased from the factory, bearings which must be lubricated using the HUDY Bearing Grease, and then there are also bearings in the steerings in a voor off-road car or truggy. For high-competition racing, we recommended doing this every 3-4 weeks, or before a major race.

7.

8. 9.

- 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 1. out by hand 2

- out by hand. Spray the seals with motor cleaner and blow dry with compressed air. Spray the bearing on both sides with motor cleaner. Spin the bearing while it is still wet to dislodge any particles with the cleaner. Spray the bearing on both sides again. Blow both sides of the bearing dry with compressed air to make sure particles come out. 5.
- How me must put of the second second

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.

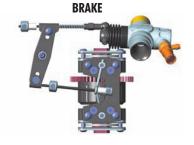
CLUICH BEAKINGS To prolong the lifespan of the clutch bearings, they must be regularly cleaned and lubricated (preferably after each run) using a high-quality grease such as HUDY Bearing Grease. However, after some time the clutch bearings must be replaced with new ones.	HUDY Bearing Oil#106230 HUDY Bearing Oil#106232
	Cold Hope Double Cold

RECOMMENDED PRODUCTS

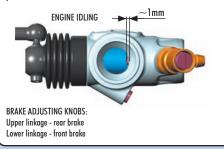
- Use HUDY Bearing Grease to regularly lubricate grease-bearing ball-bearings Use HUDY Bearing Oil to lubricate the bearings of the steering system.
- Use HUDY Bearing Grease to regularly lubricate the clutch bearings.

HUDY Joint Grease#106213

HUDY Bearing Grease #106220



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 nivot



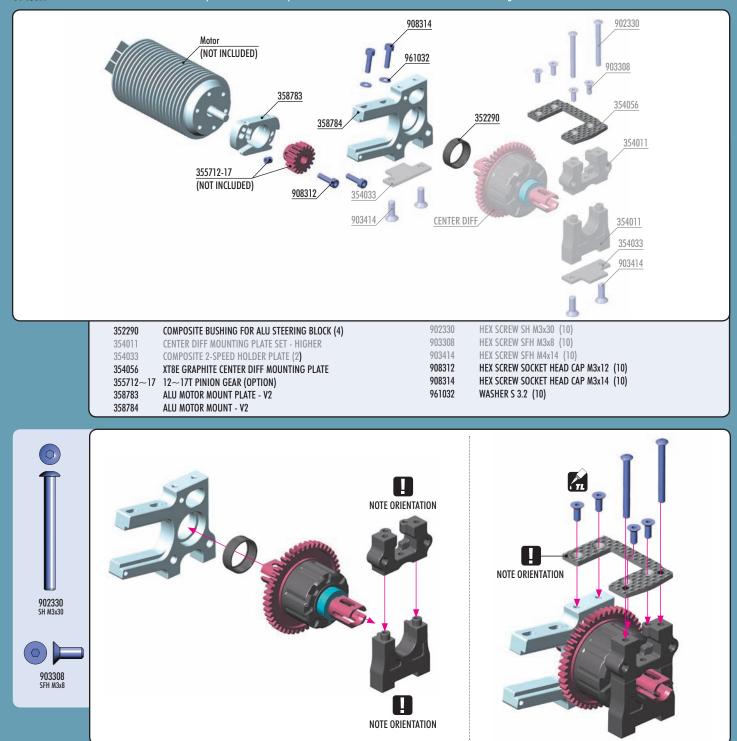
HUDY #Bearing Grease Extra106221



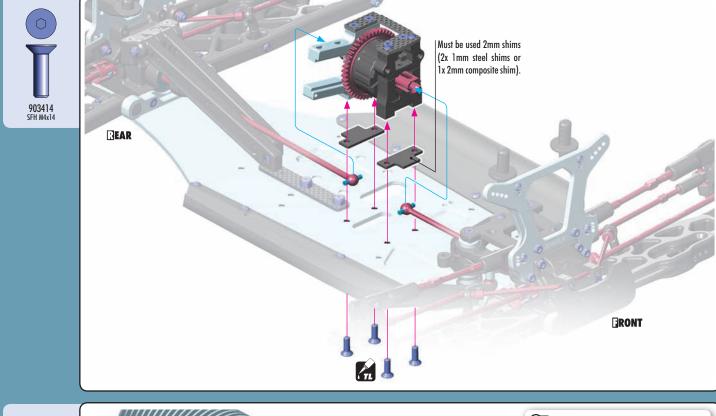


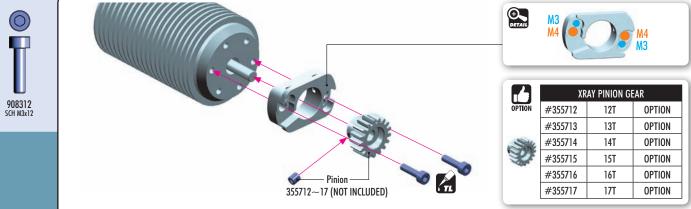
#350905 XT8E CONVERSION SET

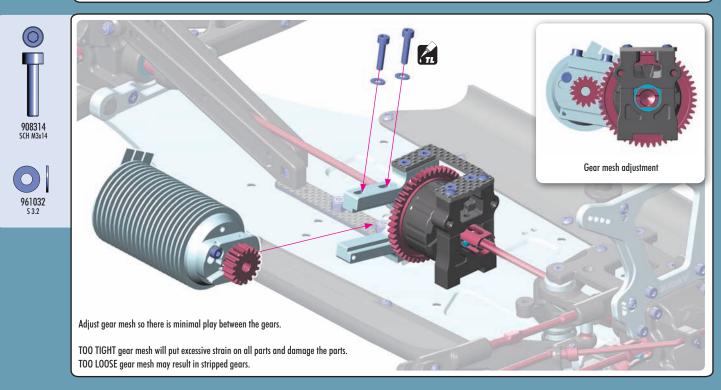
The XT8E conversion is not included and must be purchased separately. To convert the XT8 into XT8E you have to dismount the engine with muffler, fuel tank, radio box, center diff OPTION holders and follow these instructions. All parts in the section exploded views which are shaded are to be used from the original XT8 kit.



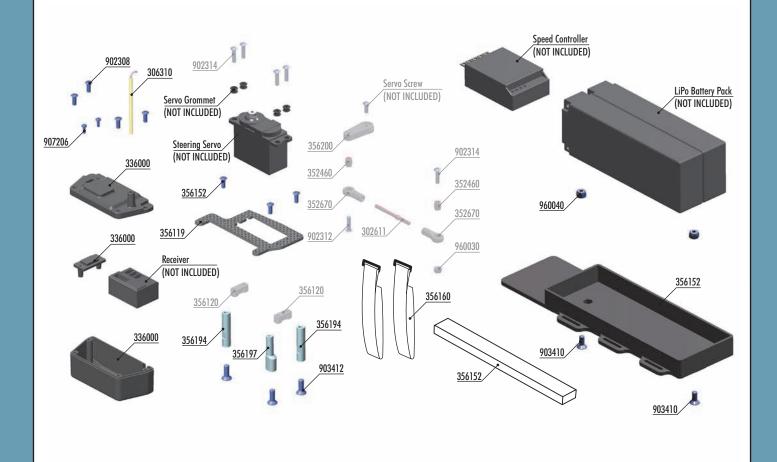






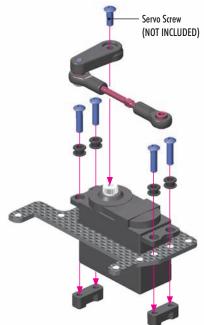




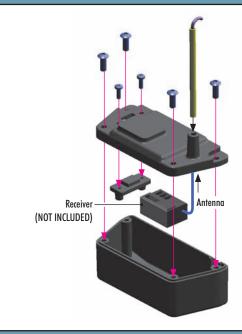


	02611	ADJ. TURNBUCKLE L/R 35 MM - HUDY SPRING STEEL (2)	356200	BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET
	06310 36000	ANTENNA TUBE (2) COMPOSITE RECEIVER CASE - V2	902308	HEX SCREW SH M3x8 (10)
	36060	RECEIVER SWITCH - SET (OPTION)	902312	HEX SCREW SH M3x12 (10)
3	52460	PIVOT BALL 5.8 (10)	902314	HEX SCREW SH M3x14 (10)
3	52670	SERVO BALL JOINT 5.8MM (4)	903410	HEX SCREW SFH M4x10 (10)
3	56119	XT8E GRAPHITE RECEIVER CASE TOP PLATE	903412	HEX SCREW SFH M4x12 (10)
3	56120	STEERING SERVO MOUNT - SET	907206	SCREW PHILLIPS 2x6 (10)
3	56152	COMPOSITE BATTERY PLATE	960030	NUT M3 (10)
3	56160	VELCRO BATTERY STRAP 20x300MM (2)	960040	NUT M4 (10)
3	56194	ALU MOUNT FOR RECEIVER BOX		
3	56197	ALU MOUNT FOR RECEIVER BOX		
3	56197	ALU MOUNT FOR RECEIVER BOX		









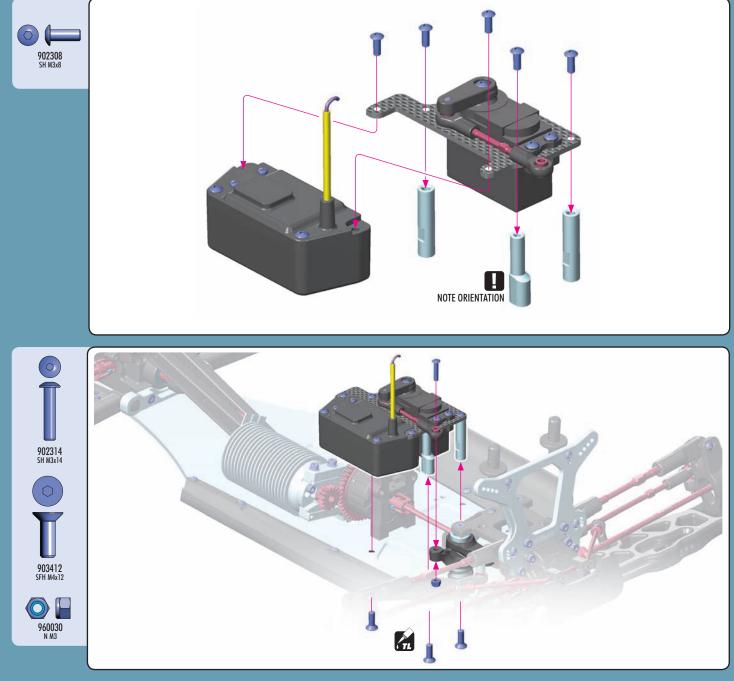
902308 SH M3x8

> 907206 2x6

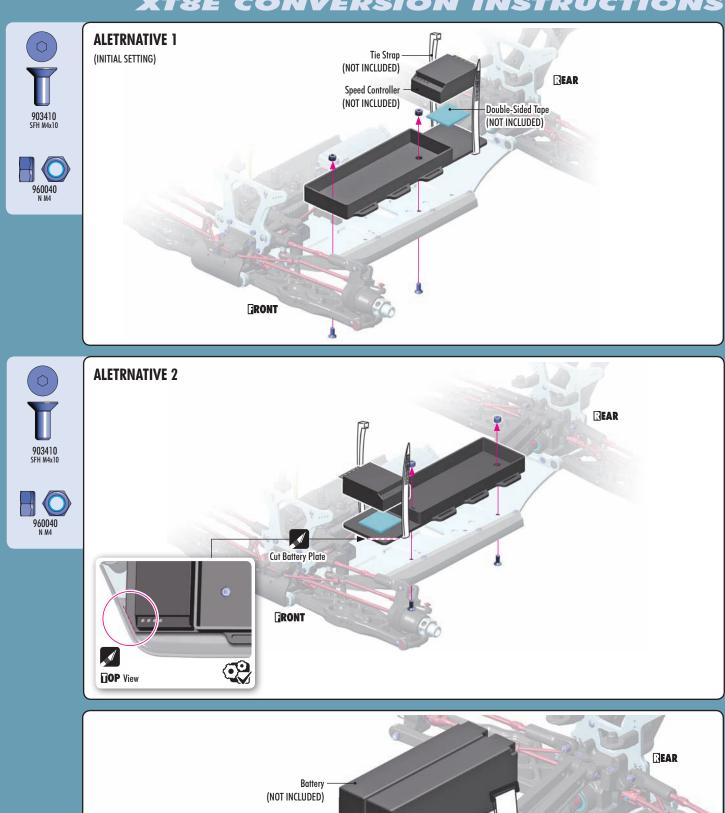




If the receiver box has 2 different-size openings for cable entry (narrow and wider), cut away the tab for the appropriate opening to allow the cables to fit properly.









RONT

Velcro Battery Strap

Cut the foam as needed to fill in space between the batteries and holder.



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