

INTRODUCTION

The XRAY XB8 is a modern, high-competition premium luxury racing 1/8 nitro off-road car that is the epitome of high-performance and fine distinctive design. Your XB8 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 XB8.

XB8 was designed around a no compromise platform; the attention to detail creates a low maintenance, extra long life nitro buggy. 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

The XRAY XB8 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 XB8 delivers outstanding performance, speed, and precision handling.

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XRAY Europe

K Výstavisku 6992 91101 Trenčín 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: (214) 744-2400 Fax: (214) 744-2401 Email: xray@rcamerica.com

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

SAFETY PRECAUTIONS

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

CAUTION: CANCER HAZARD

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

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

Take appropriate safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation! Please read the instruction manual before building and operating this model and follow all safety precautions. Always keep the instruction manual at hand for quick reference, even after completing the assembly. Use only genuine and original authentic

XRAY parts for maximum performance. Using any third party parts on this model will void augranty 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 limited indoor space
- 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!



A

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 shortcircuits, approximately 300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging, or using

- inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may damage battery and, in the worst case, could build up heat leading to fire. If battery becomes extremely hot during recharging, please ask your local hobby shop for check and/or repair and/or replacement.
- Regularly check the charger for potential hazards such as damage to the cable, plug, casing or other defects. Ensure that any damage is rectified before using the charger again. Modifying the charger may cause short-circuit or overcharging leading to a serious accident. Therefore do not modify the
- Always unplug charger when recharging is finished.
- Do not recharge battery while battery is still warm. After use, battery retains heat. Wait until it cools down before charging.
- Do not allow any metal part to short circuit the receiver batteries or other electrical/electronic device on the model.
- Immediately stop running if your RC model gets wet as may cause short circuit.
- Please dispose of batteries responsibly. Never put batteries into fire.



IMPORTANT NOTES - NITRO FUEL

- Handle fuel only outdoors. Never handle nitro fuel indoors, or mix nitro fuel in a place where ventilation is bad.
- Only use nitro fuel for R/C models. Do not use gasoline or kerosene in R/C models as it may cause a fire or explosion, and ruin your engine.
- Nitro fuel is highly inflammable, explosive, and poisonous. Never use fuel indoors or in places with open fires and sources of heat.
- Always keep the fuel container cap tightly shut.
- Always read the warning label on the fuel container for safety information.
- Nitro-powered model engines emit poisonous vapors and gasses. These vapors irritate eyes and can be highly dangerous to your health. We recommend wearing rubber or vinyl gloves to good direct contact with nitro fuel.
- · Nitro fuel for RC model cars is made of the combination of the methyl alcohol,
- castor or synthetic oil, nitro methane etc. The flammability and volatility of these elements is very high, so be very careful during handling and storage of nitro fuel
- Keep nitro fuel away from open flame, sources of heat, direct sunlight, high temperatures, or near batteries.
- Store fuel in a cool, dry, dark, well-ventilated place, away from heating devices, open flames, direct sunlight, or batteries. Keep nitro fuel away from children.
- Do not leave the fuel in the carburetor or fuel tank when the model is not in use. There is danger that the fuel may leak out.
- Wipe up any spilled fuel with a cloth.
- Be aware of spilled or leaking fuel. Fuel leaks can cause fires or explosions.
- Do not dispose of fuel or empty fuel containers in a fire. There is danger of explosion.

R/C & BUILDING TIPS

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

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

WARRANTY

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

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

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

Limitations of Liability

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

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

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

OUALITY CERTIFICATE

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

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

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



SYMBOLS USED

Part bags used

Assemble in the specified order



Assemble left and right sides the same way



Assemble front and rear the same

U U F=R



Pay attention

Assemble as many times as specified (here twice)

2x

Apply instant



Apply oil



Apply grease Apply threadlock

GR C

TIP



Cut off shaded portion

01.1



Use special tool



Cut off remainina material









Use cleaner

or WD-40®



Tighten screw gently



Ensure smooth non-binding movement







Special Tool for all turnbuckles,

nuts (HUDY #181090)

Follow tip here Follow Set-up

Book 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)

Side Cutters

(HUDY #189010)



Professional Multi Tool (HUDY #183011)



Pocket Hobby Knife

(HUDY #188981)

17mm Wheel Nut Tool (HUDY #107570)



Needle Nose Pliers



Flywheel Tool (HUDY #182015)



Snap Ring Pliers

(HUDY #189040)

Turnbuckle Wrench (HUDY #181040 4mm) (HUDY #181050 5mm)



Scissors



Body Reamer (HUDY #107600) (HUDY #107601)

TOOLS & EQUIPMENT INCLUDED

Silicone Shock Oil (HUDY #106331 300cSt 100ml) (HUDY #106341 400cSt 100ml)



Silicone Diff Oil (HUDY #106431 3000cSt 100ml) (HUDY #106451 5000cSt 100ml) (HUDY #106471 7000cSt 100ml)



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



.21ci (3.5cc) Engine (FX K5 DC #650301)



Starter Box & Battery Pack (HUDY #104500)







Receiver Pack







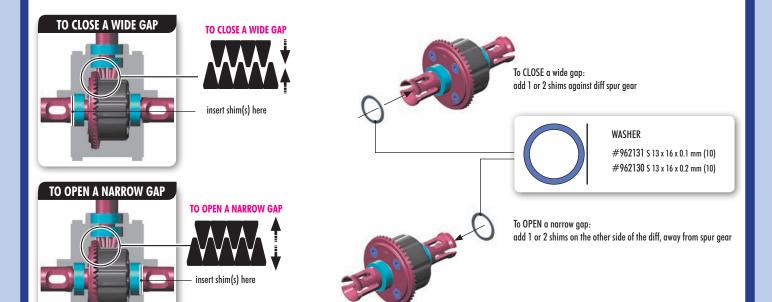




TTP FRONT & REAR DIFF GEAR MESH ADJUSTMENT

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 ™ 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.



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.

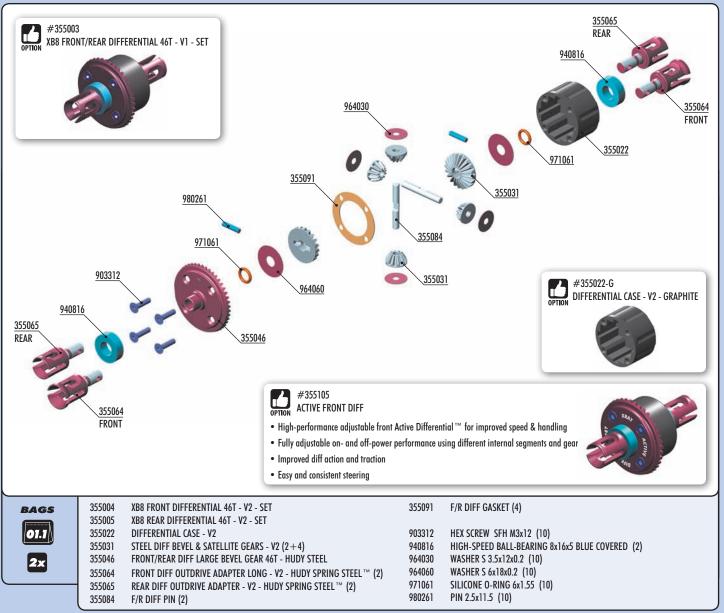


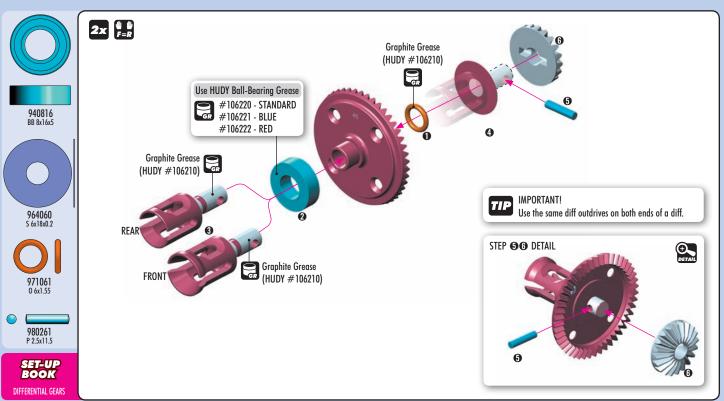
For easy drive pin replacements use #106000 **HUDY Drive Pin Replacement Tool.**



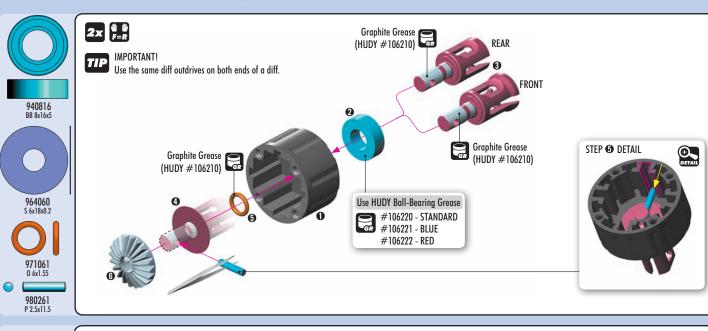
To replace the worn pins use only premium HUDY drive pins #106050.

1. FRONT & REAR DIFFERENTIALS





1. FRONT & REAR DIFFERENTIALS







VERY IMPORTANT!

Use the following silicone oils included in the kit for initial settings: FRONT diff: 5 000cSt / REAR diff: 3 000cSt



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

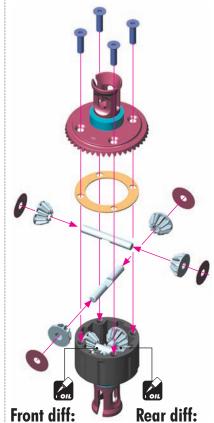


1. Put the diff (without oil) on the scale and check the weight:

- REAR DIFF approx. 39.30g
- FRONT DIFF approx. 40.10g

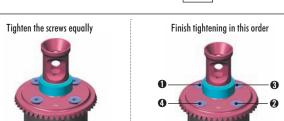
2. Slowly pour oil into the diff and watch the weight. Add 2.70g of oil into the diff. The approximate weight of the diff+oil is REAR DIFF approx. 42.00g and FRONT DIFF approx. 42.80g



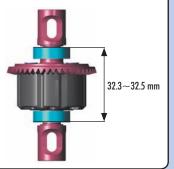


Silicone oil 5 000cSt Fill just above the satellite gears. Silicone oil 3 000cSt Fill just above the satellite gears.

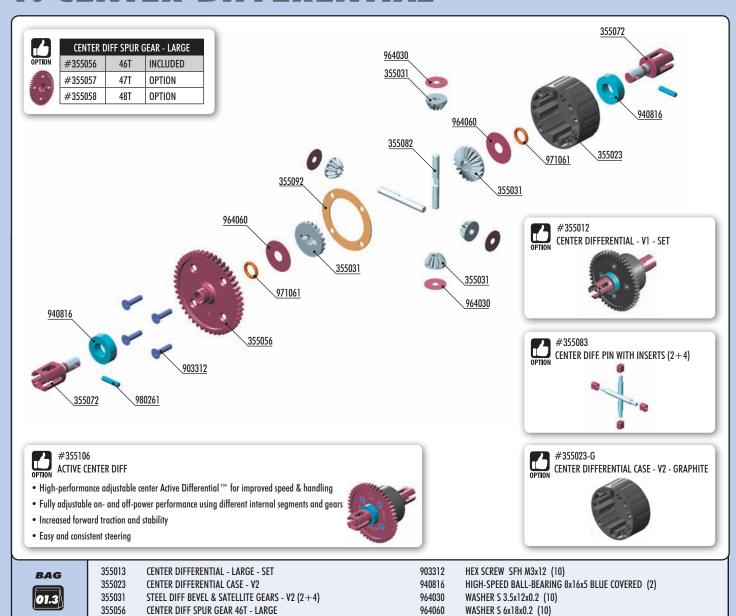


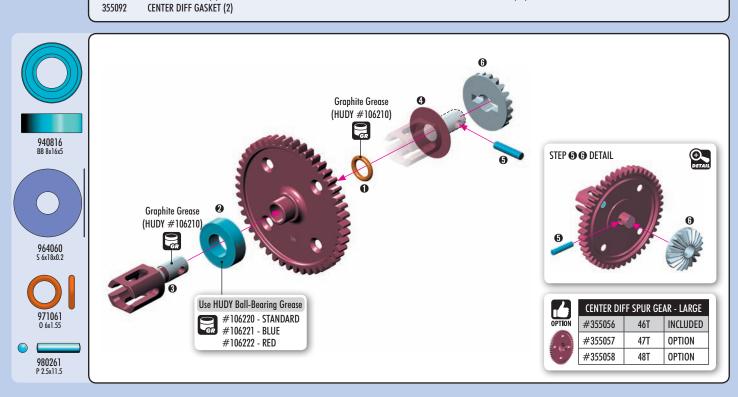


After assembly the differentials should have a length of 32.3—32.5 mm measured from the ends of the installed ball-bearings. If differentials are longer, retighten the 4 screws holding the crown gears.



1. CENTER DIFFERENTIAL





971061

980261

SILICONE O-RING 6x1.55 (10)

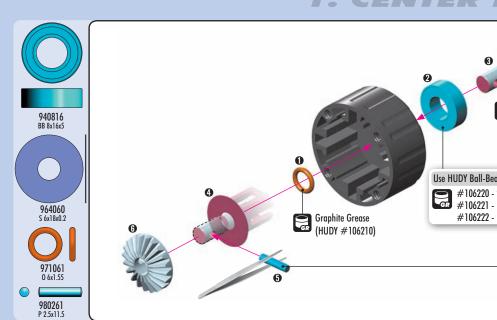
PIN 2.5x11.5 (10)

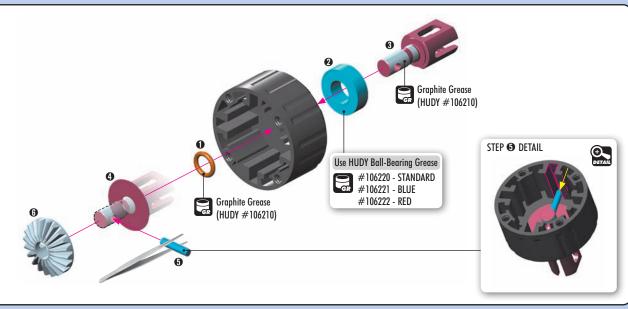
355072

355082

CENTER DIFF PIN (2)

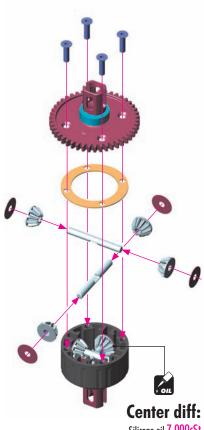
LARGE CENTER DIFF OUTDRIVE ADAPTER - HUDY STEEL (2)



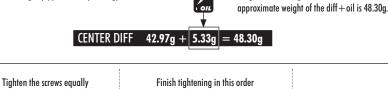








SET-UP BOOK **DIFFERENTIAL OIL**



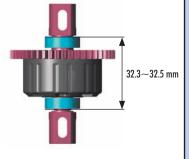
Silicone oil 7 000cSt Fill to just above the satellite gears.



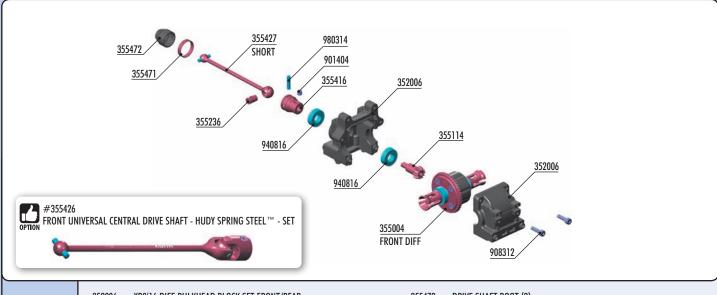
check the weight (approximately 42.97g).

After assembly the differential should have a length of 32.3~32.5 mm measured from the ends of the installed ball-bearings. If differential is longer, retighten the 4 screws holding the spur gear.

weight. Add 5.33g of oil into the diff. The



2. FRONT TRANSMISSION



BAG 02 352006 XB8'16 DIFF BULKHEAD BLOCK SET FRONT/REAR 355004 XB8 FRONT DIFFERENTIAL 46T - V2 - SET

355114 **BEVEL DRIVE GEAR 14T**

355236 CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL™ CENTRAL CVD SHAFT UNIVERSAL JOINT - HUDY SPRING STEEL™ 355416

FRONT CENTRAL CVD DRIVE SHAFT - HUDY SPRING STEELT 355427

DRIVE SHAFT LOCKING RING (2) 355471

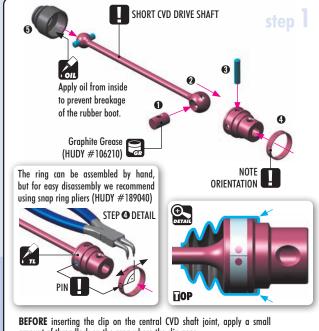
355472 DRIVE SHAFT BOOT (2)

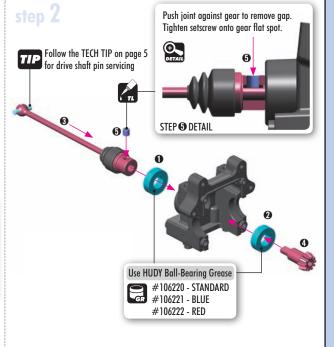
901404 HEX SCREW SB M4x4 (10)

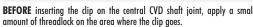
908312 HEX SCREW SOCKET HEAD CAP SCH M3x12 (10) HIGH-SPEED BALL-BEARING 8x16x5 RUBBER SEALED (2) 940816

980314 PIN 3x14 (10)



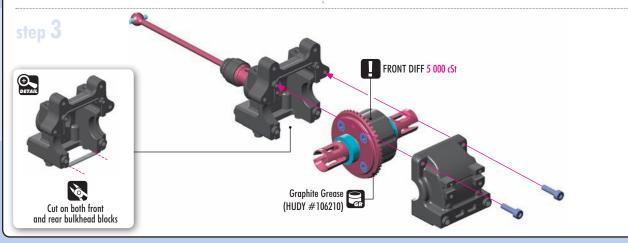




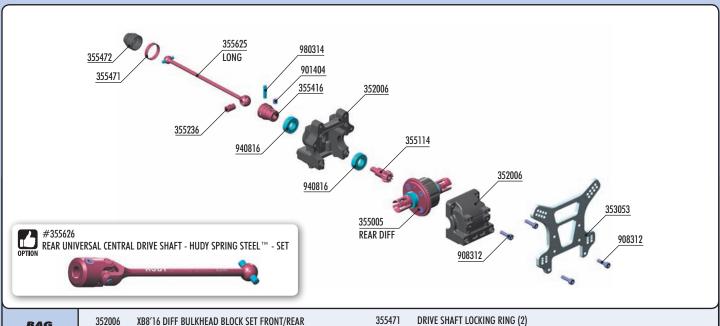


AFTER inserting the clip on the central CVD shaft joint, turn the clip so that the slot is 90° from the pin. This will prevent the pin from opening the clip.





2. REAR TRANSMISSION

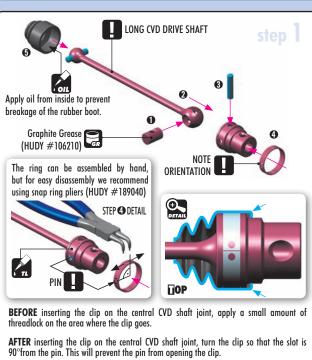


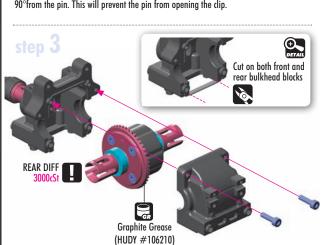
BAG
02

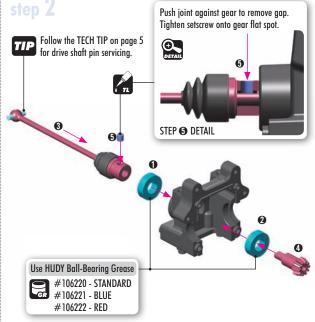
355472 DRIVE SHAFT BOOT (2) 355005 XB8 REAR DIFFERENTIAL 46T - V2 - SET XB8 ALU REAR SHOCK TOWER - CNC MACHINED 7075 T6 (4MM) 353053 355114 **BEVEL DRIVE GEAR 14T** 901404 HEX SCREW SB M4x4 (10) HEX SCREW SOCKET HEAD CAP SCH M3x12 (10) 908312 CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL $^{\scriptscriptstyle\mathsf{TM}}$ 355236 355416 CENTRAL CVD SHAFT UNIVERSAL JOINT - HUDY SPRING STEEL™ 940816 HIGH-SPEED BALL-BEARING 8x16x5 RUBBER SEALED (2) REAR CENTRAL CVD DRIVE SHAFT - HUDY SPRING STEEL 980314 355625 PIN 3x14 (10)

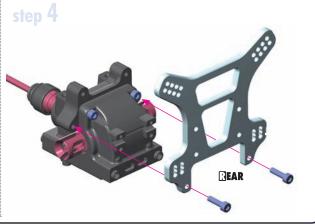


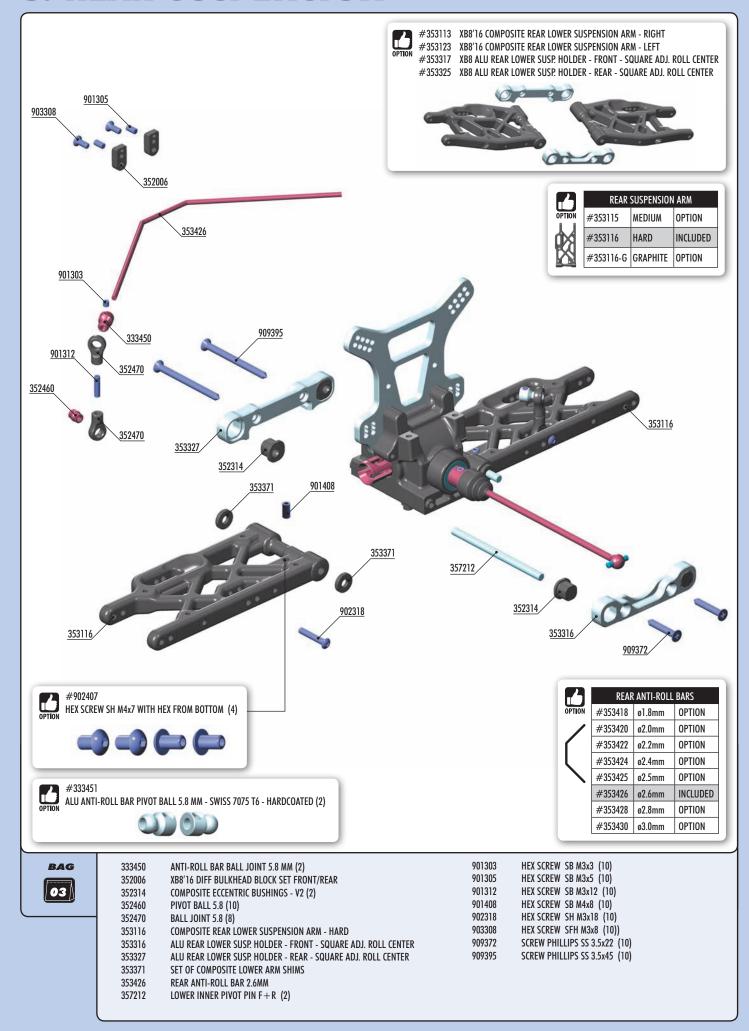
908312 SCH M3x12

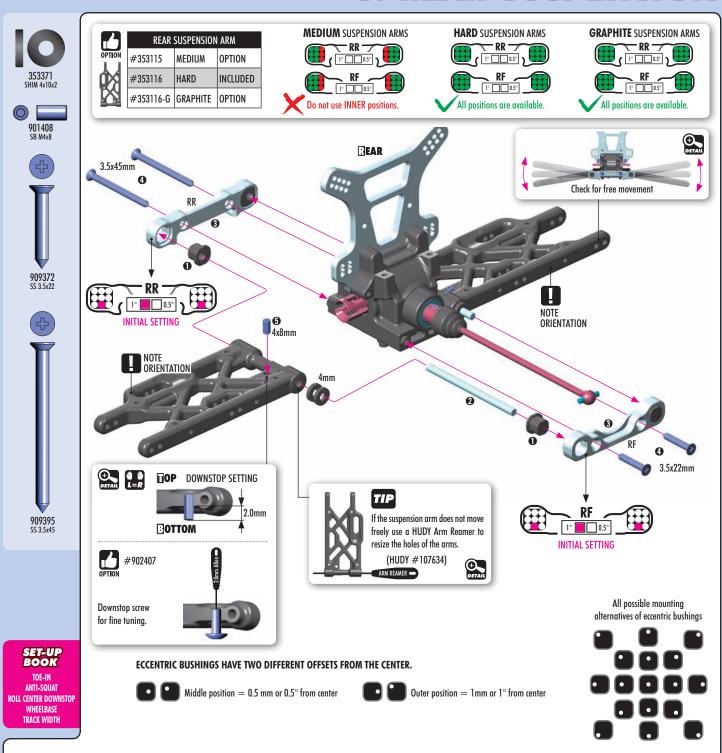




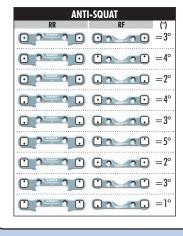




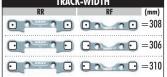




The XRAY rear alu lower suspension holders provide even greater range of adjustment for the rear suspension. Using different combinations of eccentric bushings, fine adjustment of rear anti-squat, rear toe-in, rear roll center, and rear track-width can be obtained. For more information about the influence 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).



KOLL CENTER				
RR	RF	(mm)		
0 10	0000	= 0 _{mm}		
0,-10	0000	=1mm		
	000	=-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° offset. The 0.5mm, 0.5° represents the half change.

	Anti-Squat Example:		
O(RR) - O (RF) $= 3^{\circ}$	() MAY ()	○ ○ ○ ○ = 3°	
O(RR) - 0.5 (RF) $= 3.5^{\circ}$	0 0 0	• 3.5°	
O(RR) - 1 (RF) = 4°	0 0	• 4°	

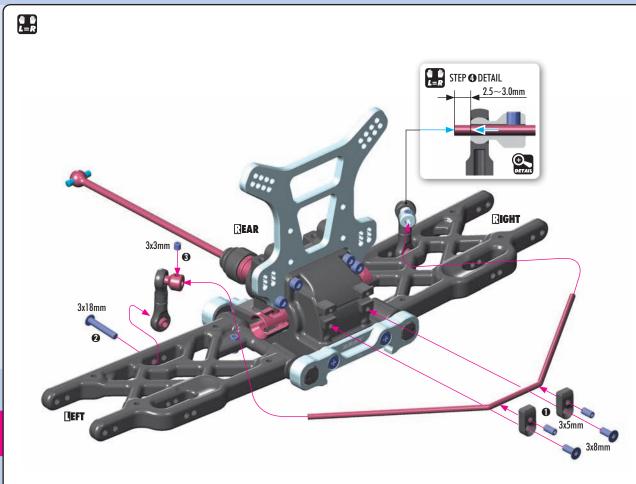
RR	RF	(°)
0,00	0110	=3°
0,00	0000	=4°
0,00	011	=2°
0,00	<u> </u>	=2°
0,00	<u> </u>	=3°
0,000	0110	=1°
0,00	<u> </u>	=4°
0,00	<u> </u>	=5°
	010	=3°

TOE-IN





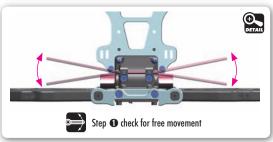




SET-UP BOOK ANTI-ROLL BAR

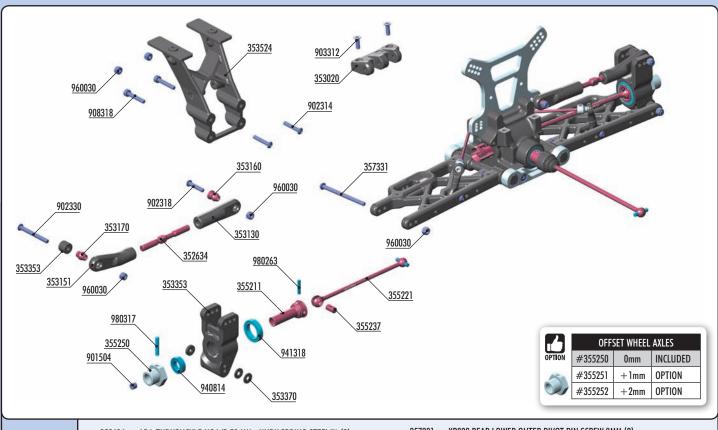
903308 SFH M3x8







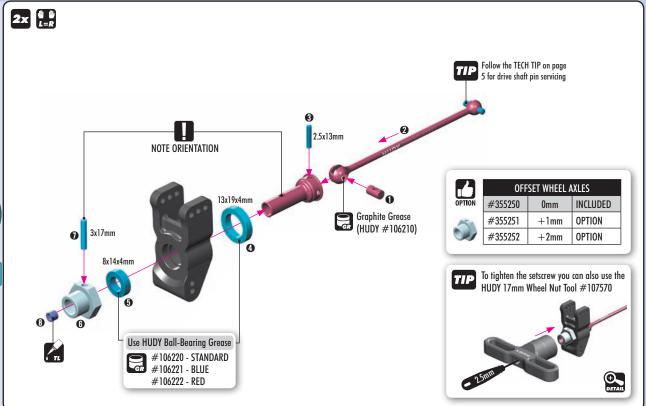
	REAR	ANTI-ROLL	BARS
OPTION	#353418	ø1.8mm	OPTION
/	#353420	ø2.0mm	OPTION
	#353422	ø2.2mm	OPTION
l	#353424	ø2.4mm	OPTION
	#353425	ø2.5mm	OPTION
	#353426	ø2.6mm	INCLUDED
	#353428	ø2.8mm	OPTION
	#353430	ø3.0mm	OPTION



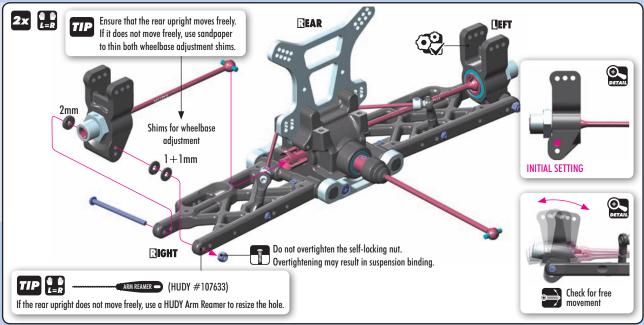


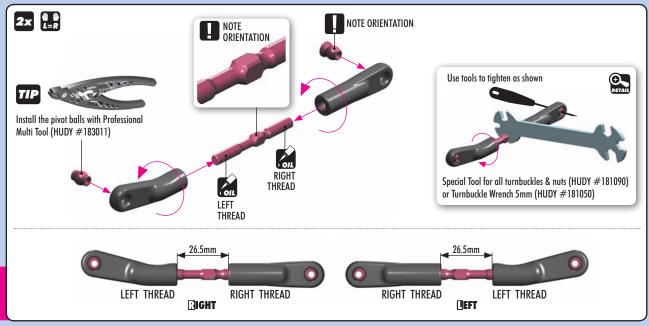
352634	ADJ. TURNBUCKLE M5 L/R 50 MM - HUDY SPRING STEEL ™ (2)	357331	XB808 REAR LOWER OUTER PIVOT PIN SCREW 3MM (2)
353020	COMPOSITE REAR BRACE HOLDER		UEV 6605U 60 UE 4 (20)
353130	REAR UPPER INNER CAMBER LINK BALL JOINT (2)	901504	HEX SCREW SB M5x4 (10)
353151	RELIEF REAR UPPER OUTER CAMBER LINK BALL JOINT (2)	902314	HEX SCREW SH M3x14 (10)
353160	MOUNTING BALL 6.8 (4)	902318	HEX SCREW SH M3x18 (10)
353170	PIVOT BALL 6.8 (4)	902330	HEX SCREW SH M3x30 (10)
353353	COMPOSITE REAR UPRIGHT	903312	HEX SCREW SFH M3x12 (10)
353370	SET OF COMPOSITE REAR HUB CARRIER SHIMS	908318	HEX SCREW SOCKET HEAD CAP SCH M3x18 (10)
353524	XB8'18 COMPOSITE REAR WING HOLDER	940814	HIGH-SPEED BALL-BEARING 8x14x4 BLUE COVERED (2)
355211	CVD DRIVE AXLE - HUDY SPRING STEEL™	941318	HIGH-SPEED BALL-BEARING 13x19x4 BLUE COVERED (2)
355221	CVD UNIVERSAL DRIVE SHAFT - HUDY SPRING STEEL™	960030	NUT M3 (10)
355237	CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL™	980263	PIN 2.5x13 (10)
355250	ALU WHEEL AXLE - BLACK COATED (2)	980317	PIN 3x17 (10)







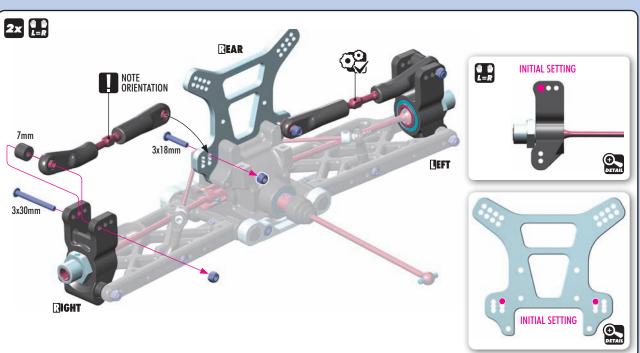




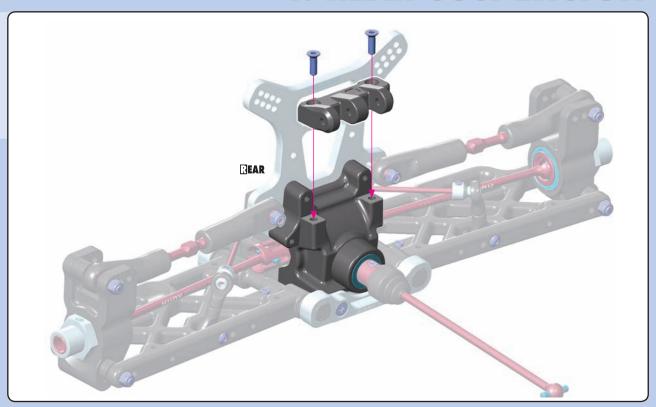


SET-UP BOOK

CAMBER



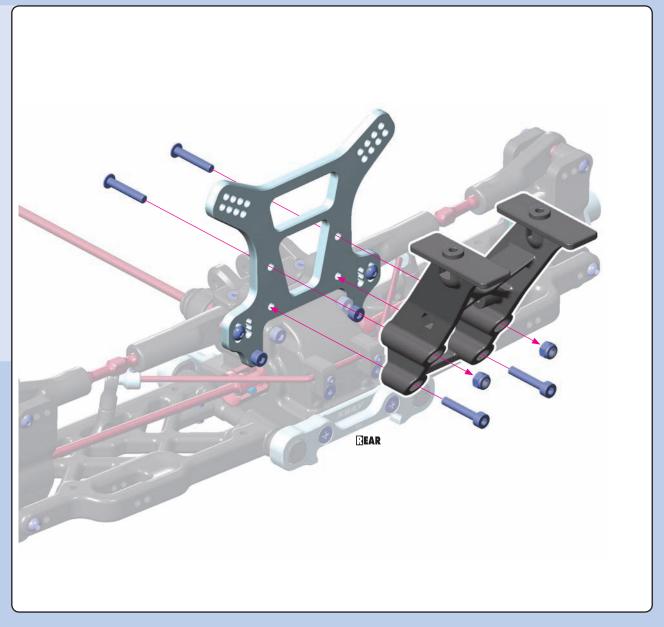


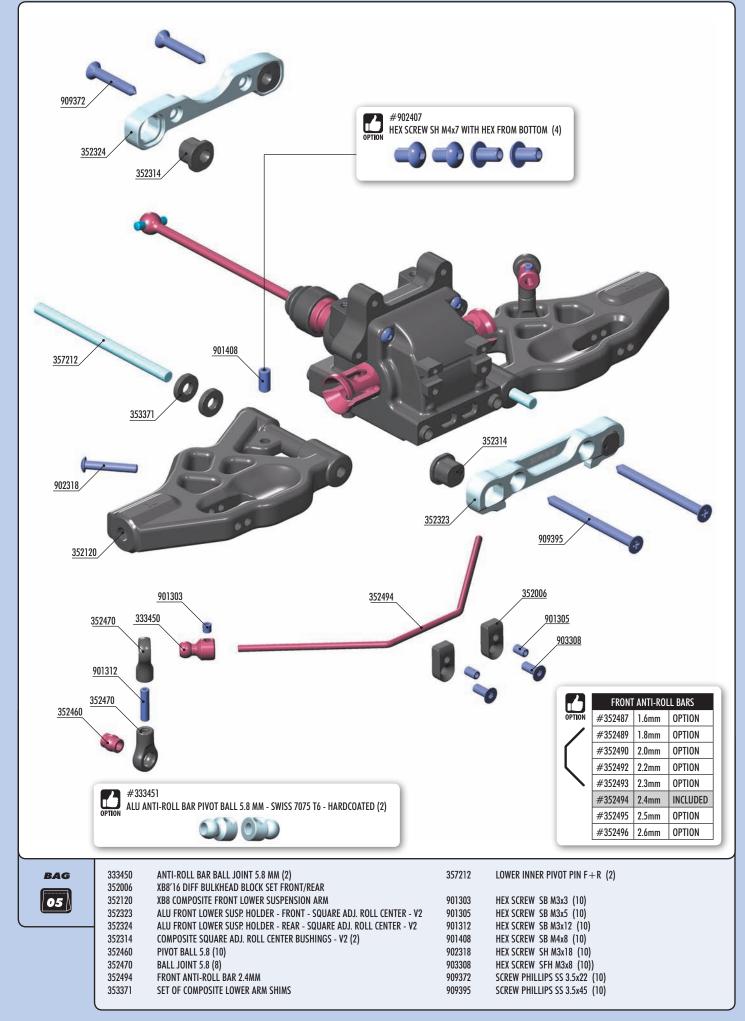




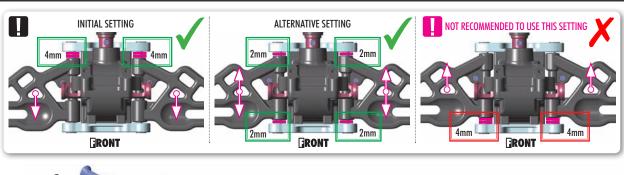


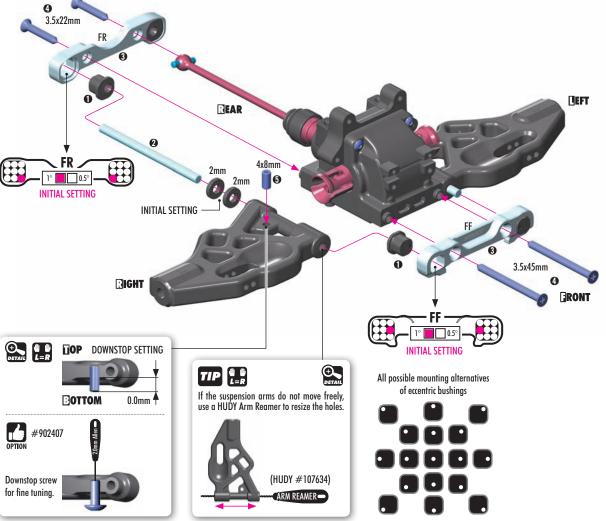


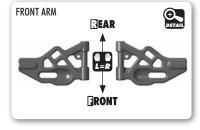








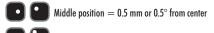








Eccentric bushings have two different offsets from the center.



	Oute	r position =	Imm or	I° trom c	enter
=1 \					

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

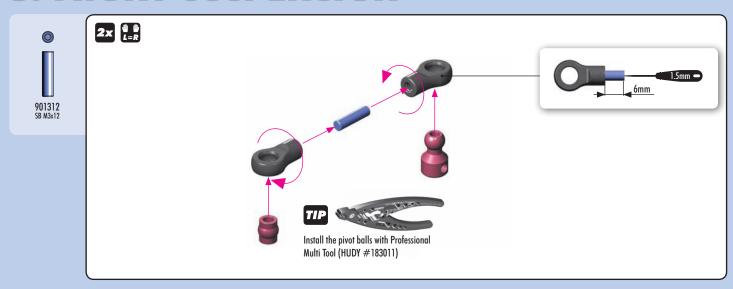
TRACK-WIDTH			
FF	FR	(mm)	ı
0,-,0	0000	=308	1
0,0	0	=306	
0,-10	0	=310*	1

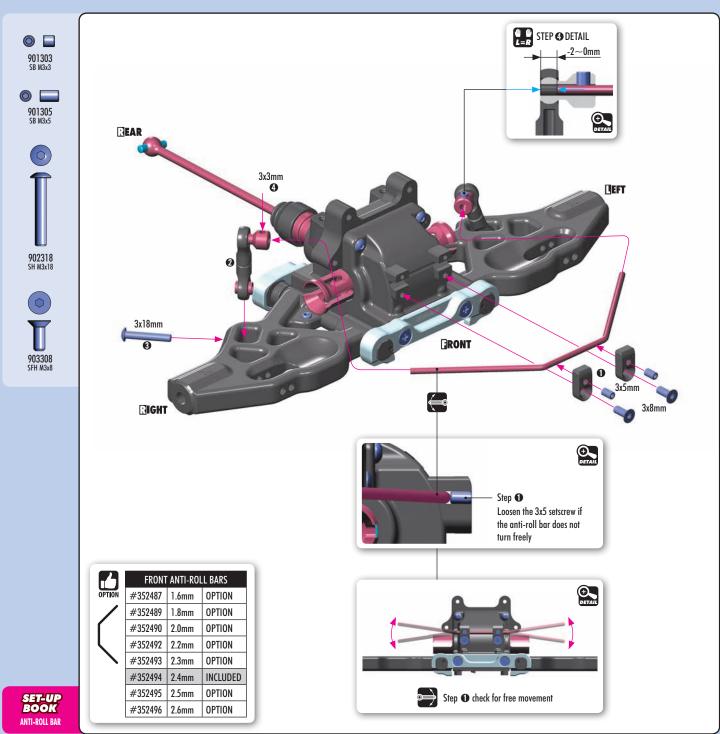
ROLL CENTER		
FF	FR	(mm)
0, 0	0	=1
(C)	02	=0
		=-1

The tables below describe the amounts of kick-up, front track-width change depending on the combinations of eccentric bushings used with 0 and 1 mm, 1° offset. The 0.5 mm, 0.5° represents the half change.

SET-UP BOOK KICK UP ROLL CENTER DOWNSTOP WHEELBASE TRACK WIDTH

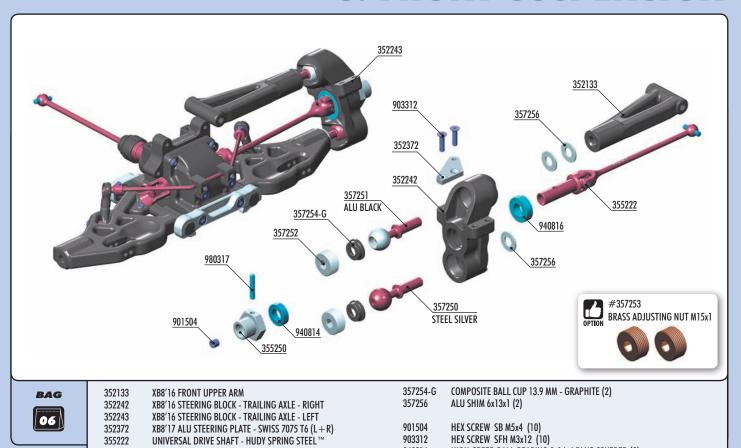
^{*} Not recommended to use this setting.





HIGH-SPEED BALL-BEARING 8x14x4 BLUE COVERED (2)

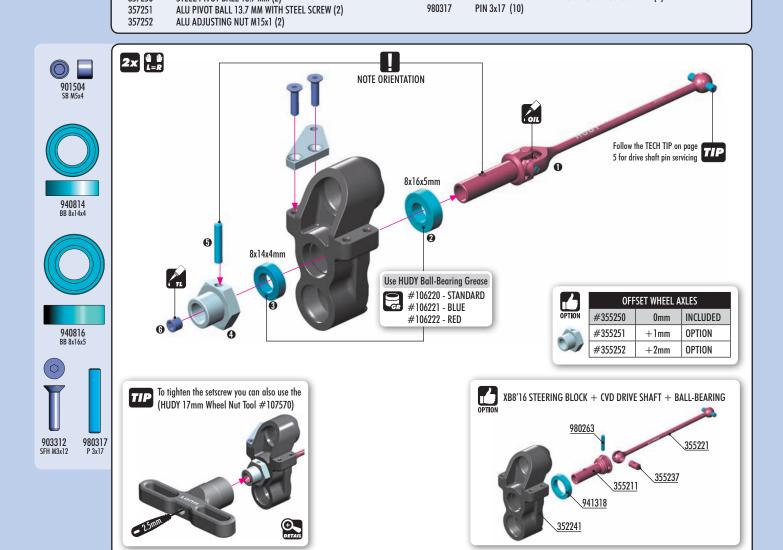
HIGH-SPEED BALL-BEARING 8x16x5 BLUE COVERED (2)



903312

940814

940816



4 E + E + F =

355222

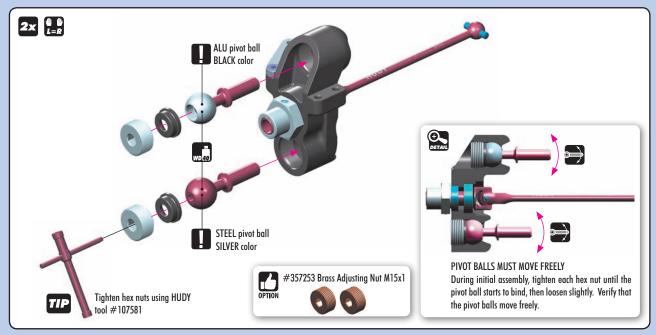
355250

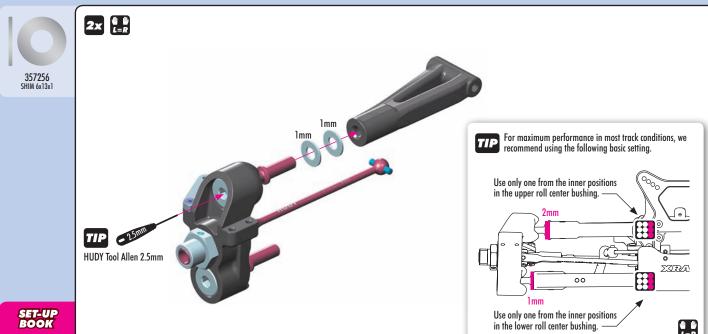
357250

UNIVERSAL DRIVE SHAFT - HUDY SPRING STEÈL™

ALU WHEEL AXLE - BLACK COATED (2)

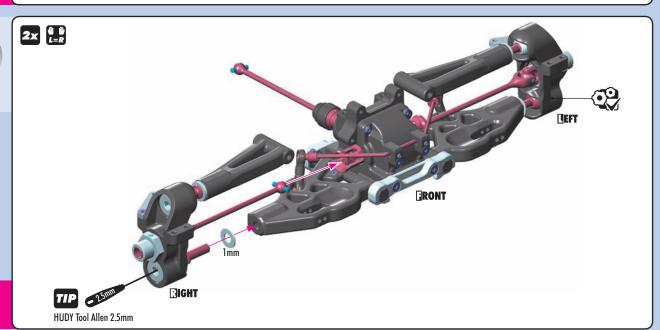
STEEL PIVOT BALL 13.7 MM (2)







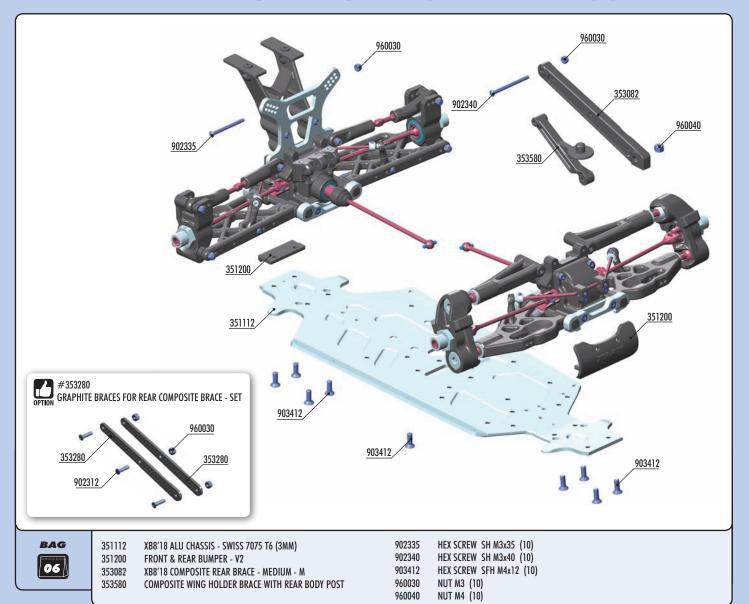
357256 SHIM 6x13x1



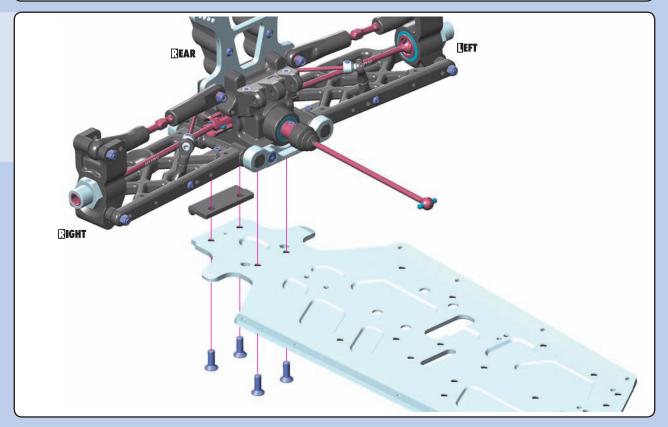
ROLL CENTER

₩ ₩ L=R

6. FRONT & REAR ASSEMBLY



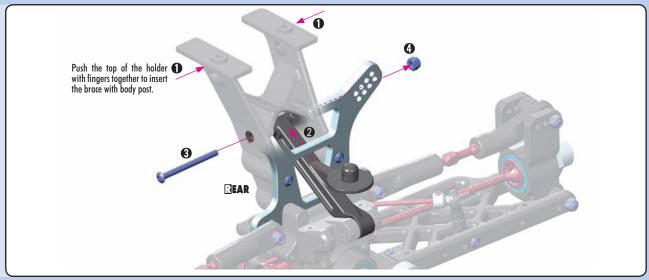




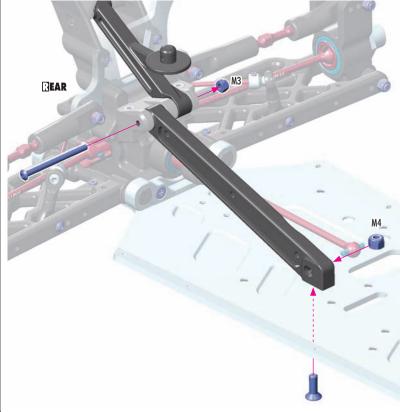
23

6. FRONT & REAR ASSEMBLY

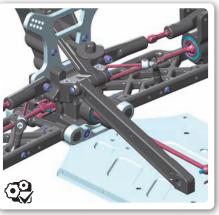




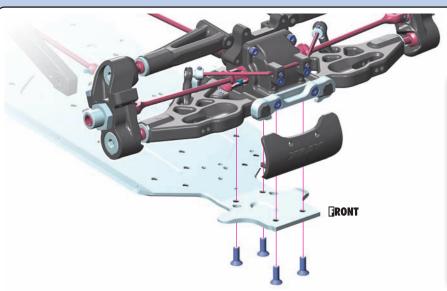








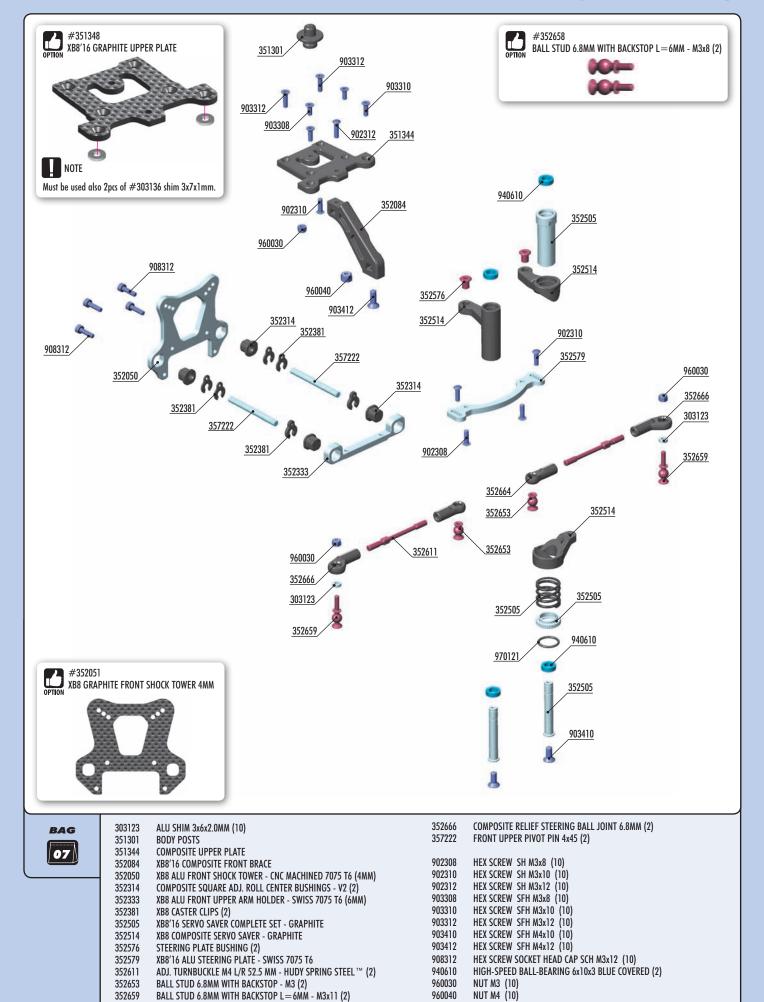






24

7. STEERING



960040

970121

O-RING 12.1 x 1.6 (10)

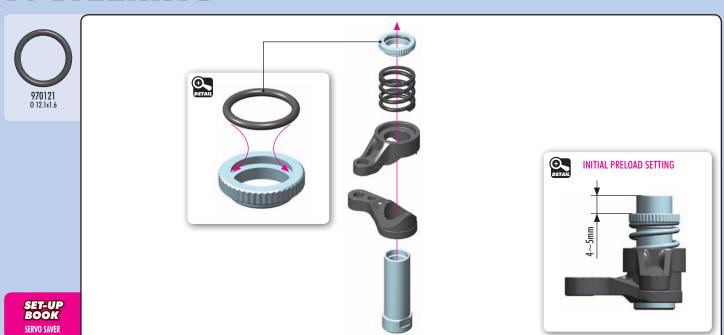
>. \ E \ E \ E \ | | | | | |

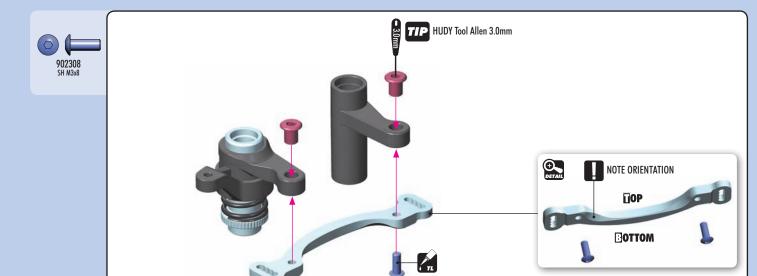
352659

352664

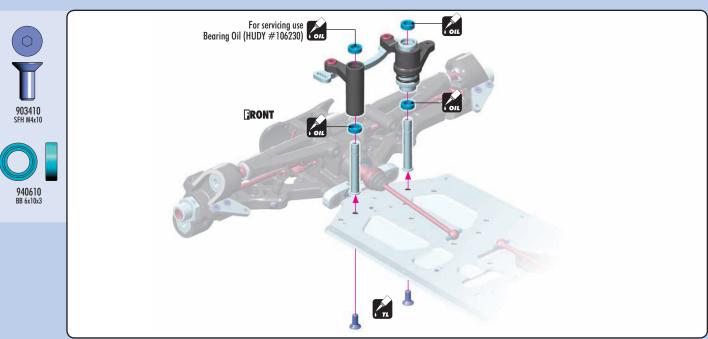
COMPOSITE STEERING BALL JOINT 6.8MM - V3 (2)

7. STEERING

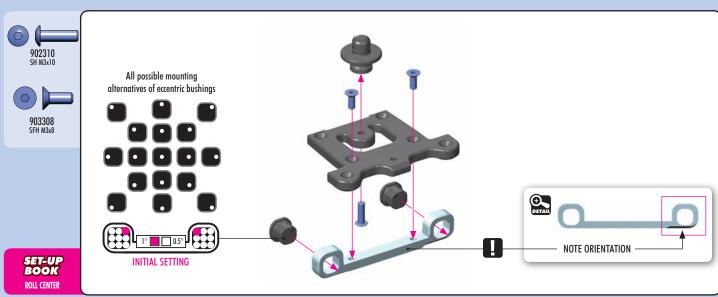


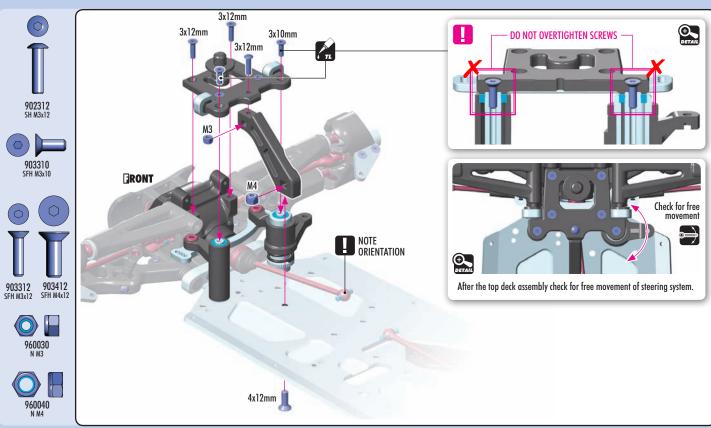


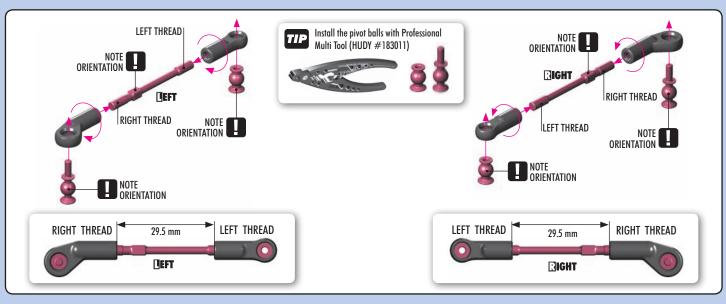
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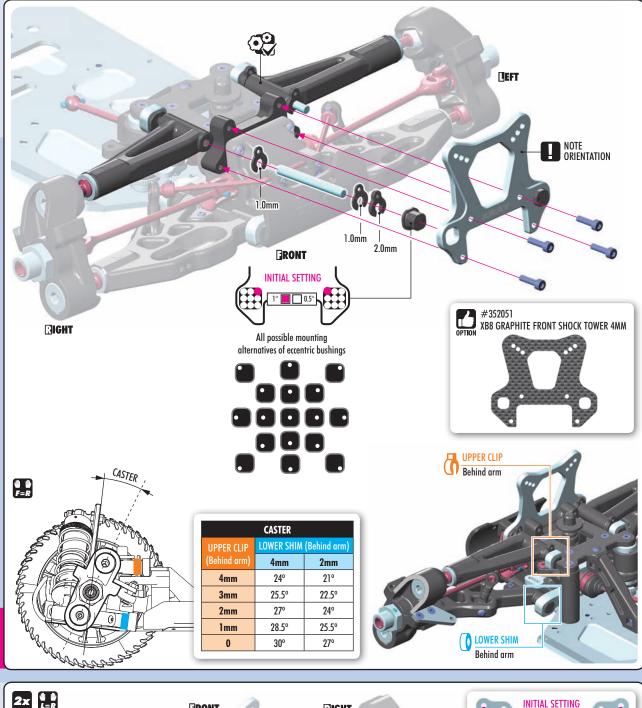




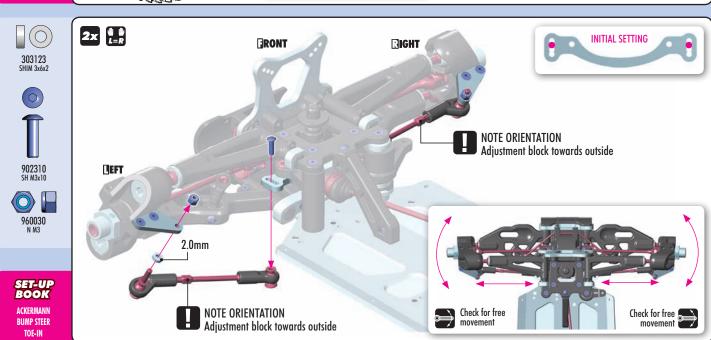


7. STEERING

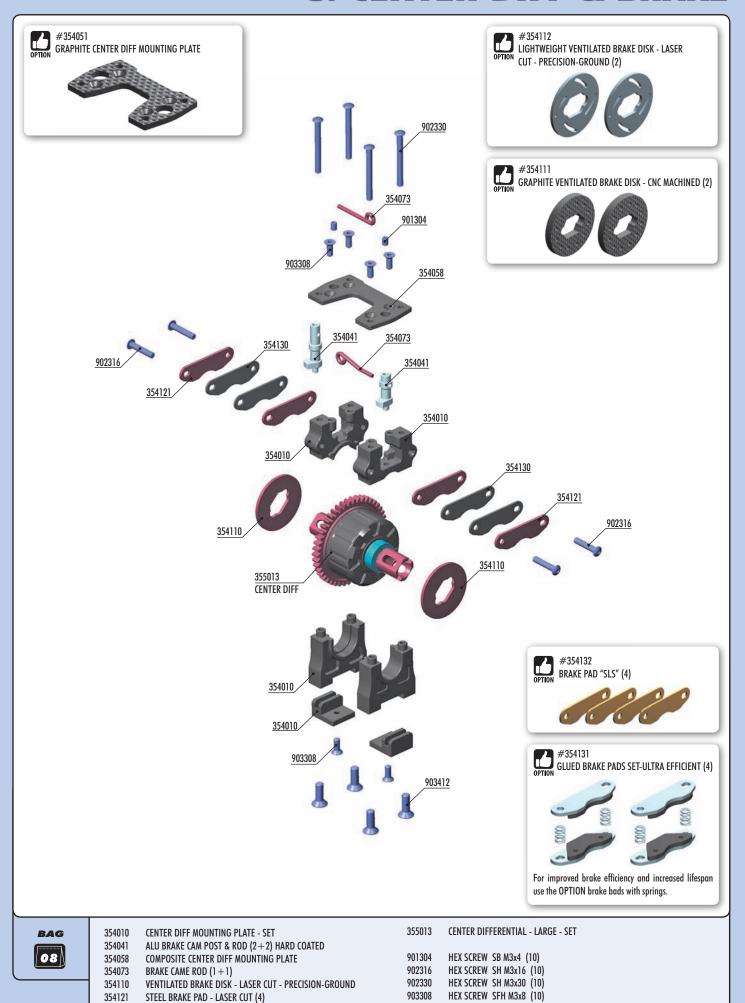




SET-UP BOOK ROLL CENTER CASTER



8. CENTER DIFF & BRAKE



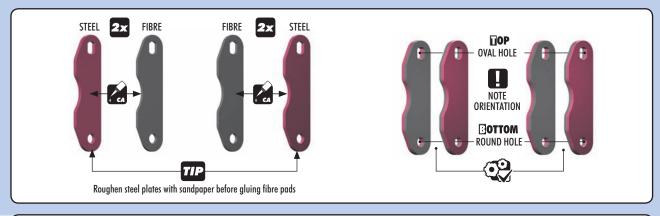
903412

HEX SCREW SFH M4x12 (10)

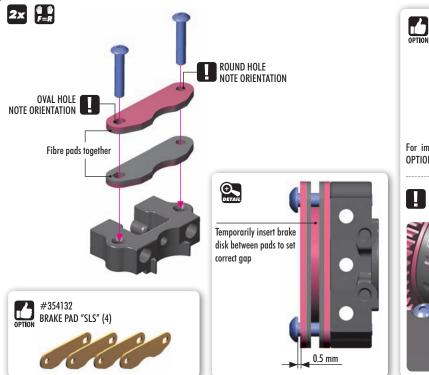
354130

BRAKE PAD FIBER (4)

8. CENTER DIFF & BRAKE

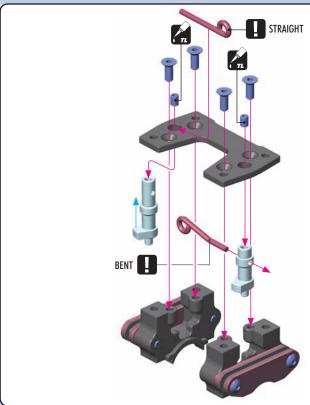


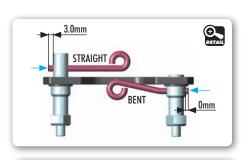












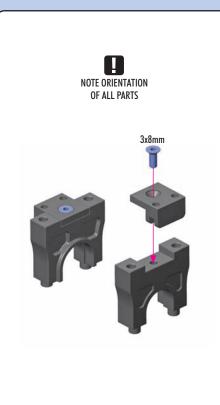


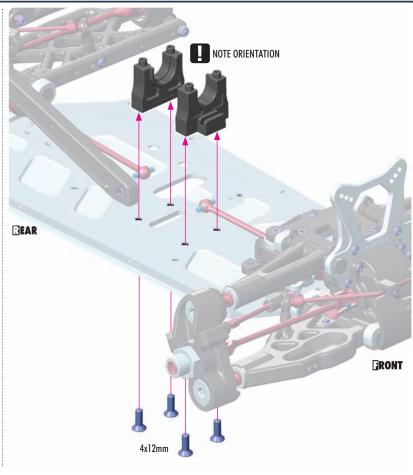
8. CENTER DIFF & BRAKE



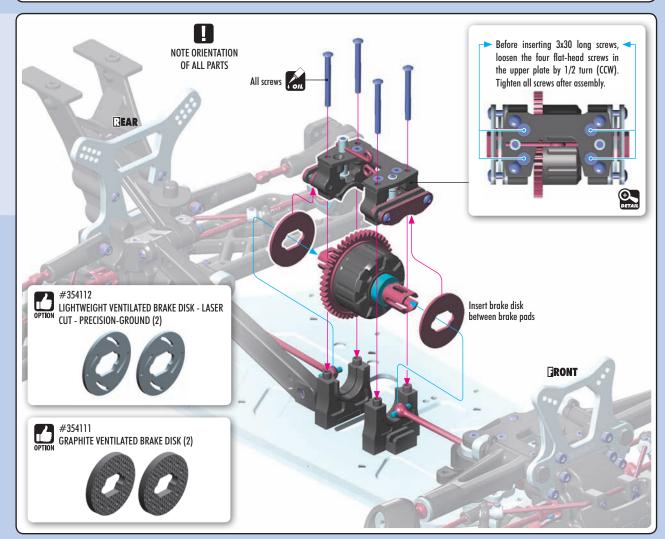


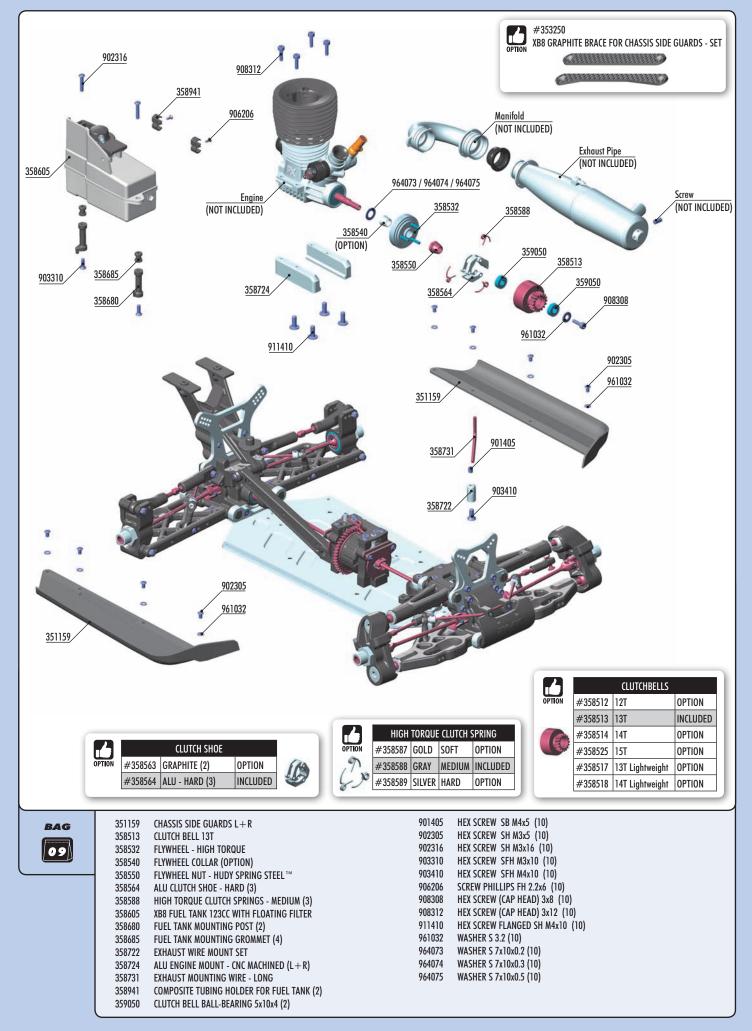






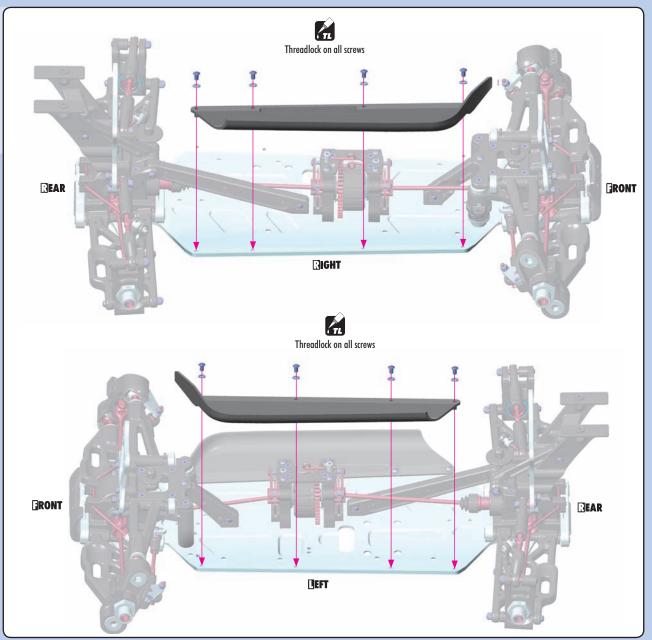










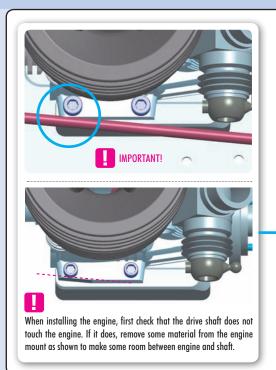


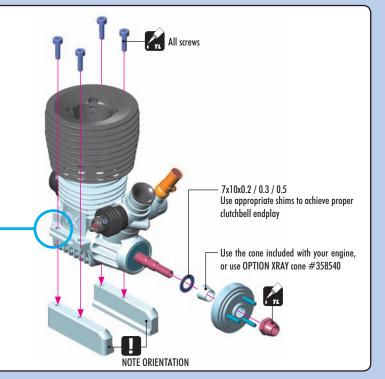


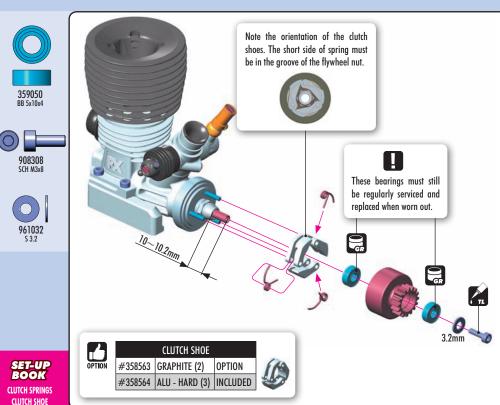


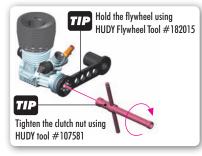








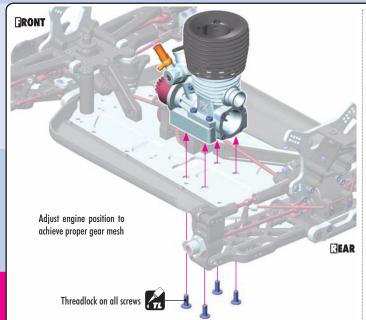


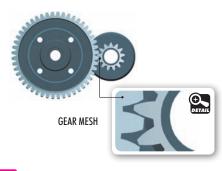


CLUTCHBELLS			
OPTION	#358512	#358512 12T	
	#358513	13T	INCLUDED
Total State	#358514	14T	OPTION
130	#358525	15T	OPTION
	#358517	13T Lightweight	OPTION
	#358518	14T Lightweight	OPTION









EXTREMELY IMPORTANT

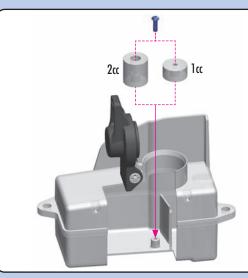
It is very important that your XB8 has properly-adjusted gear mesh. Adjust the gear mesh so there is adequate (or slightly larger) space between the spur gear and clutchbell teeth. Adjust the gear mesh by sliding the engine mounts in the slots of the chassis. You should be able to rock one gear back 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.



BOOK

GEARING

GEAR MESH ADJ



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.





1CC FUEL TANK INSERT The smaller insert decreases the fuel tank volume by 1cc.

NOTE ORIENTATION

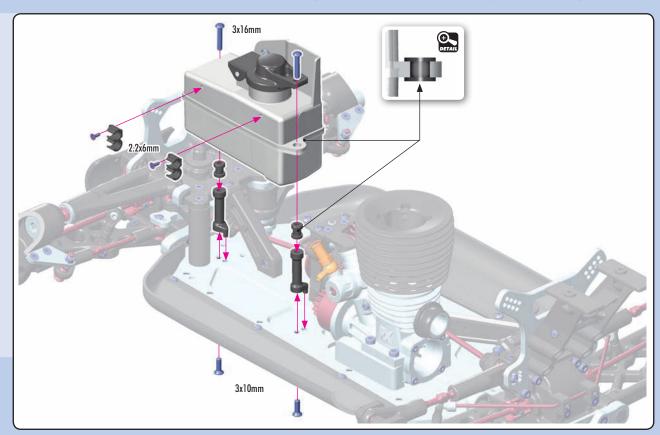
NOTE: The fuel tank insert can be easily mounted to the bottom of the fuel tank using the provided screw, when the fuel tank cap is opened fully.





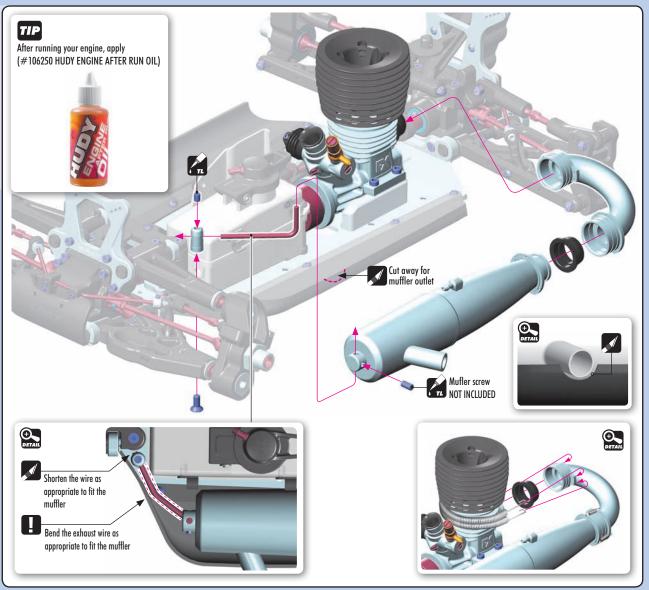




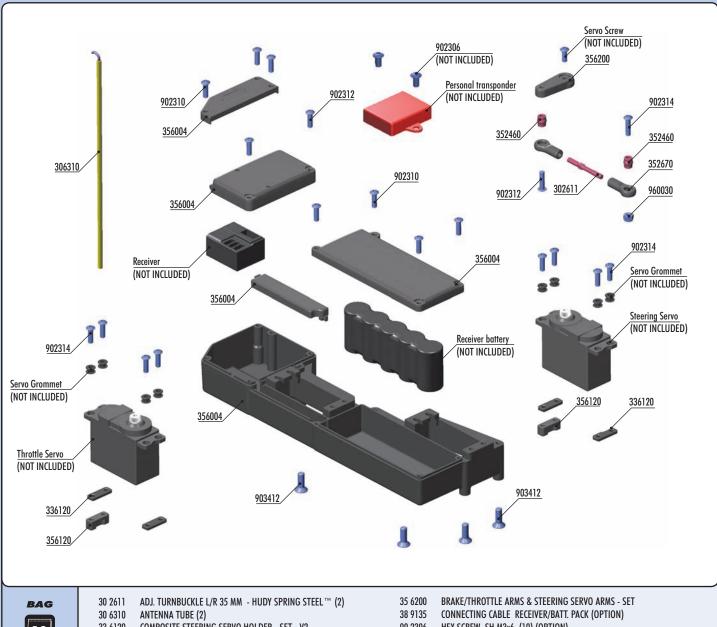








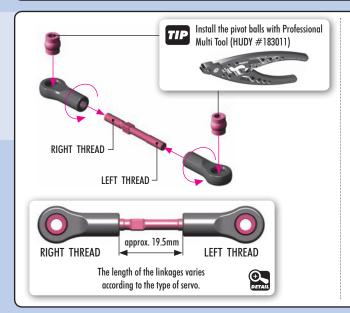
10. RADIO CASE





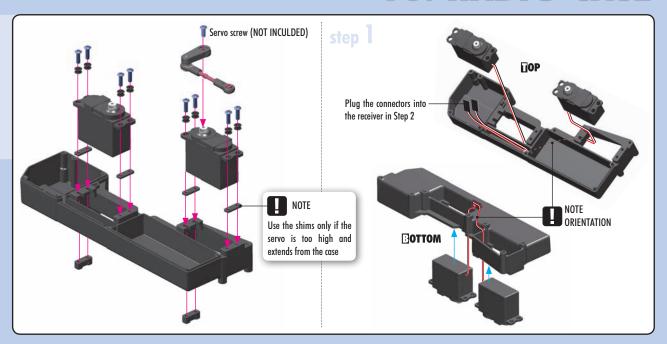
COMPOSITE STEERING SERVO HOLDER - SET - V2 33 6120 90 2306 HEX SCREW SH M3x6 (10) (OPTION) 35 2460 **PIVOT BALL 5.8 (10)** 90 2310 HEX SCREW SH M3x10 (10) SERVO BALL JOINT 5.8MM (4) HEX SCREW SH M3x12 (10) 35 2670 90 2312 COMPOSITE RADIO CASE SET - SOFT 35 6004 90 2314 HEX SCREW SH M3x14 (10) HEX SCREW SFH M4x12 (10) BATTERY CABLE WITH SWITCH (OPTION) 35 6050 90 3412 96 0030 NUT M3 (10) 35 6120 STEERING SERVO MOUNT - SET









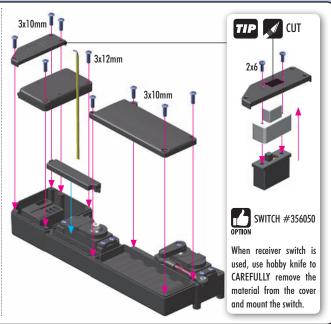








Use foam to cushion the inside of the radio case so the receiver and battery cannot vibrate or move.





902314 SH M3x14



903412 SEH M4x12



ALTERNATIVE 2
Place the transponder inside of the radio box by using double-sided tape.

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

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

When the transponder is placed at

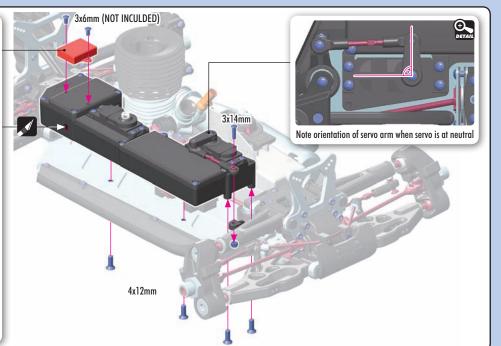
the top of the radio box, cut out some material from the radio box in order to allow the transponder wire to come

radio box

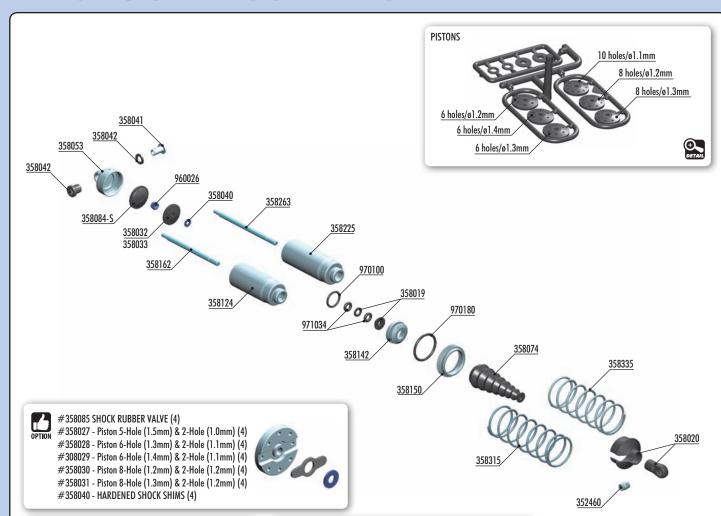
ALTERNATIVE 1

inside.

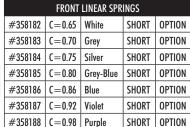


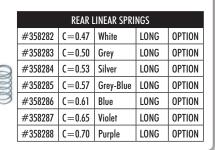


11. SHOCK ABSORBERS











7	SHOCK SPRINGS				
PTION	#358315	C=0.77-0.80	3 DOTS	FRONT	INCLUDED
	#358316	C=0.80-0.83	4 DOTS	FRONT	OPTION
	#358317	C=0.83-0.86	5 DOTS	FRONT	OPTION
3	#358335	C=0.68-0.70	3 DOTS	REAR	INCLUDED
	#358336	C=0.70-0.73	4 DOTS	REAR	OPTION



1		FRUNI & KEAN	LKOGKE221	VE SPRING	•	
ON	#358174	C=0.7-0.8	Grey	SHORT	OPTION	
	#358274	C=0.5-0.6	Grey	MEDIUM	OPTION	
3	#358275	C=0.65-0.7	1 STRIPE	MEDIUM	OPTION	
3	#358276	C=0.7-0.75	2 STRIPES	MEDIUM	OPTION	
1	#358277	C=0.72-0.8	3 STRIPES	MEDIUM	OPTION	
	#358278	C=0.75-0.83	4 STRIPES	MEDIUM	OPTION	

	REAR PROGRESSIVE SPRINGS				
NAME OF THE PERSON OF THE PERS	#358279	C=0.55-0.63	2 STRIPES	LONG	OPTION
	#358280	C=0.6-0.68	3 STRIPES	LONG	OPTION
3	#358281	C=0.65-0.7	4 STRIPES	LONG	OPTION









352460 PIVOT BALL 5.8 - V3 (10) COMPOSITE SET OF SHIMS FOR SHOCKS - V2 (2) 358019 358020 COMPOSITE SHOCK PARTS SHOCK PISTON SET 8-HOLE (1.2; 1.3) 10-H. (1.1MM) - DELRIN - V2 358032 COMPOSITE SHOCK 6-HOLE PISTON SET (1.2; 1.3; 1.4MM) - DELRIN - V2 358033 358040 HARDENED SHOCK SHIMS (4) STEEL SHOCK BUSHING (2) 358041

358042 COMPOSITE SHOCK BUSHING & SHIM - V2 (2+2) XB8 ALU SHOCK CAP NUT - BLACK COATED (2) 358053 FOLDING SHOCK BOOT (4) 358074

358084-S SHOCK RUBBER MEMBRANE BOTTOM RIBBED - SOFT (4) XB8 ALU FRONT SHOCK BODY - HARD COATED (2) 358124

358142 ALU SHOCK BODY NUT FOR SHOCK BOOT (2)

358150 ALU SHOCK BODY ADJ. NUT (2) FRONT SHOCK SHAFT (2) 358162

XB8'16 ALU REAR SHOCK BODY - HARD COATED (2) 358225

358263 XB8 REAR SHOCK SHAFT (2) 358315 XRAY FRONT SPRING 69MM - 3 DOTS (2)

XRAY REAR SPRING 85MM - 3 DOTS 358335

NUT M2.5 - SHORT (10) 960026 970100 O-RING 10 x 1.5 (10) O-RING 18 x 1.8 (10) 970180

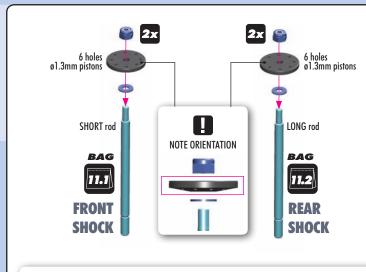
971034 SILICONE O-RING 3.5x2 (10)

11. SHOCK ABSORBERS













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.



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

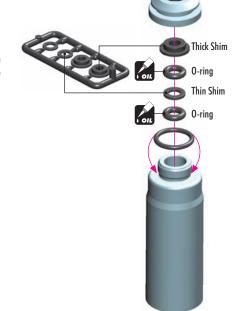




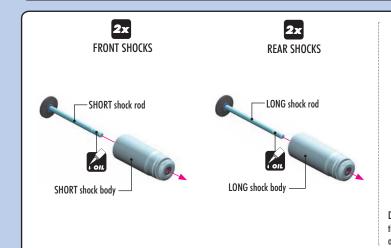
2x FRONT SHOCKS (SHORT)

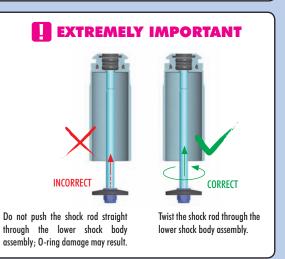
2x REAR SHOCKS (LONG)

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

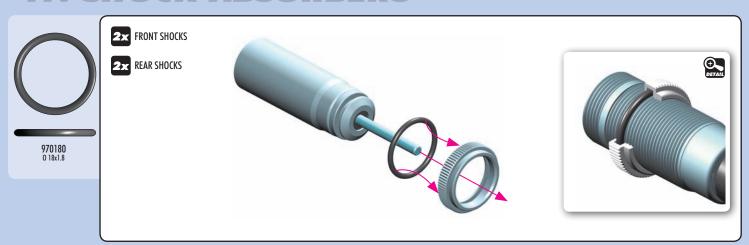


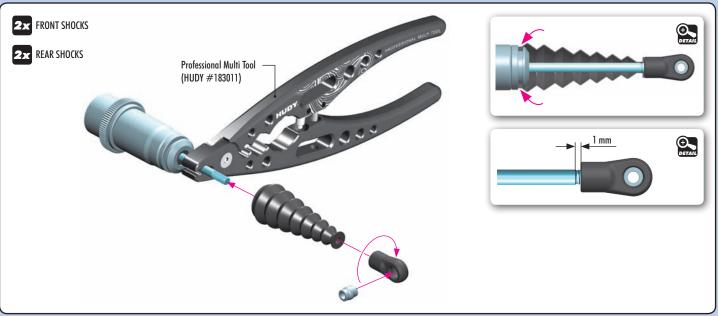


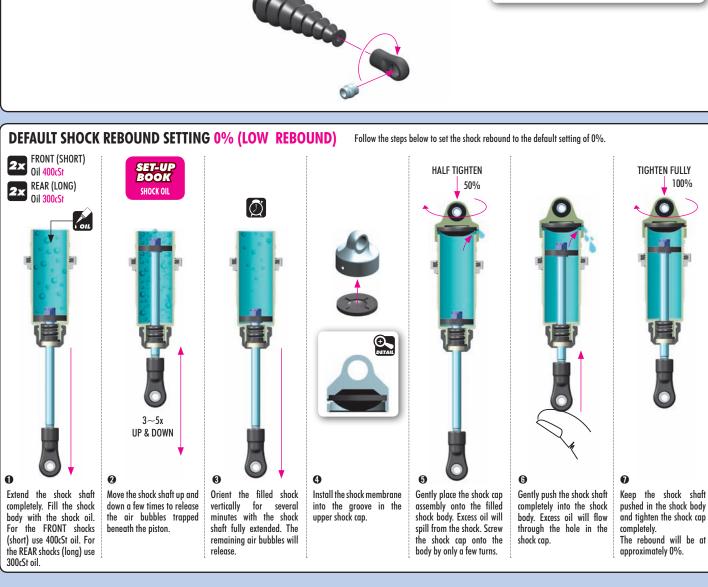


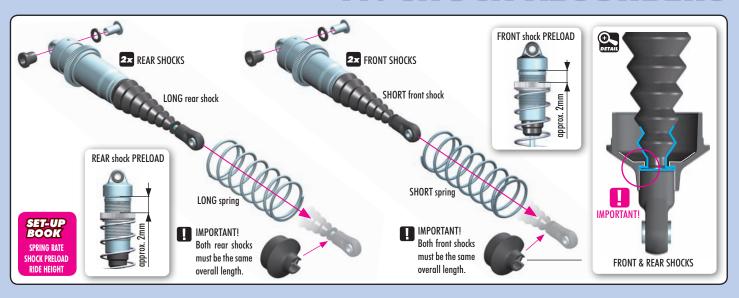


11. SHOCK ABSORBERS









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)



Extend the shock shaft completely and remove the shock cap.



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.



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



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



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)



Extend the shock shaft completely and remove the shock cap.



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

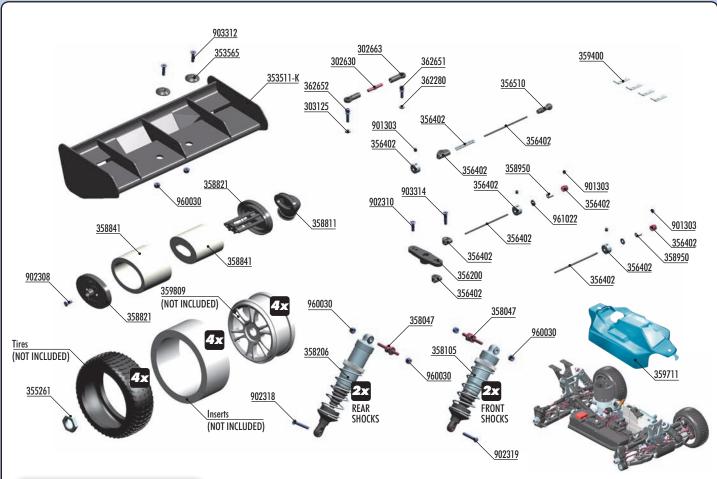


Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.



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







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

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

	HUDY ALU SERVO HORNS				
OPTION	#293504	23T KO Propo, Airtronics, Sanwa	OPTION		
all i	#293505	24T Hitec	OPTION		
10	#293506	25T Futaba	OPTION		
	#293507	23T KO Propo, Airtronics, JR, Sanwa	OPTION		
	#293508	24T Hitec	OPTION		
- E	#293509	25T Futaba	OPTION		

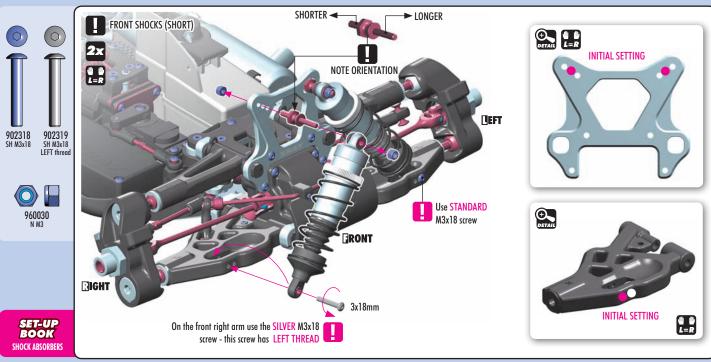


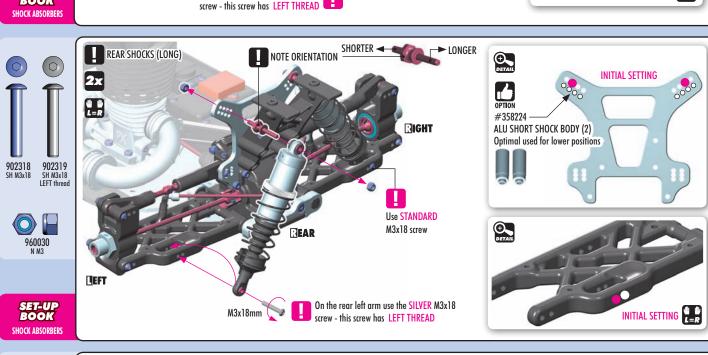
7		WINGS	
PTION	#353511-K	BLACK	INCLUDED
	#353511	WHITE	OPTION
	#353511-Y	YELLOW	OPTION
	#353512	LEXAN®	OPTION

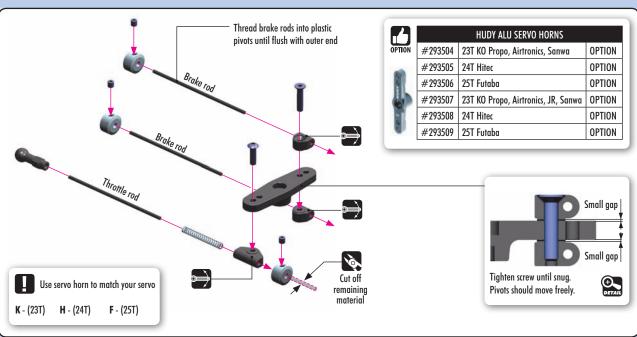
į	BAG
ı	12 N
Į	

302630 302663 303125 353511-K 353565 355261 356200 356402	ADJ. TURNBUCKLE L/R 20 MM - HUDY SPRING STEEL™ (2) COMPOSITE BALL JOINT 4.9MM - OPEN - V2 (8) ALU SHIM 3x6x3.0MM (10) XB8 REAR WING - BLACK COMPOSITE REAR WING SHIM - BLACK (2) WHEEL NUT - RIBBED - HARD COATED (2) BRAKE/THROTTLE ARMS & SERVO ARMS - SET XB8 BRAKE/THROTTLE SYSTEM - SET	359400 359711 359809 362280 362651 362652	BODY CLIP (10) XB8 BODY HIGH-SPEED FOR 1/8 OFF-ROAD BUGGY WHEELS STARBURST - YELLOW (4) (OPTION) ALU CONICAL SHIM 3x6x2.0MM (10) BALL END 4.9MM WITH THREAD 8MM (2) BALL END 4.9MM WITH THREAD 10MM (2) HEX SCREW SB M3x3 (10)
356510	CLOSED BALL JOINT 3.9 (4)	902308	HEX SCREW SH M3x8 (10)
358047	STEEL SCREW SHOCK PIVOT BALL WITH HEX (2)	902310	HEX SCREW SH M3x10 (10)
358105 358206	XB8 FRONT SHOCK ABSORBERS + BOOTS COMPLETE SET (2) XB8'16 REAR SHOCK ABSORBERS + BOOTS COMPLETE SET (2)	902318 902319	HEX SCREW SH M3x18 (10) HEX SCREW SH M3x18 - LEFT THREAD (10)
358811	AIR FILTER ELBOW - LOW PROFILE	903312	HEX SCREW SFH M3x12 (10)
358821	AIR FILTER BODY & CAP - LOW PROFILE	903314	HEX SCREW SFH M3x14 (10)
358841	AIR FILTER FOAM & OIL - LOW PROFILE	960030	NUT M3 (10)
358950	SILICONE TUBING 1M (2.4 x 5.5MM)	961022	WASHER S 2.2 (10)

12. FINAL ASSEMBLY







901303 SB M3x3

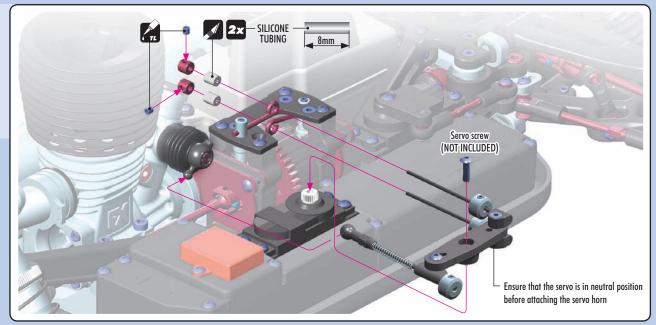
902310 SH M3x10

12. FINAL ASSEMBLY

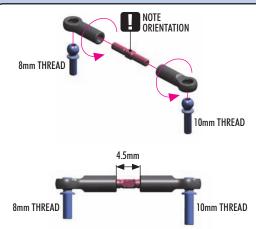


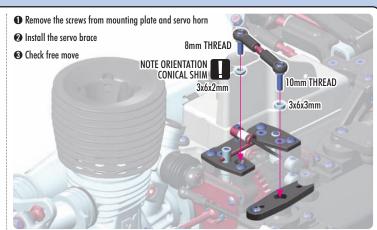


S 2.2

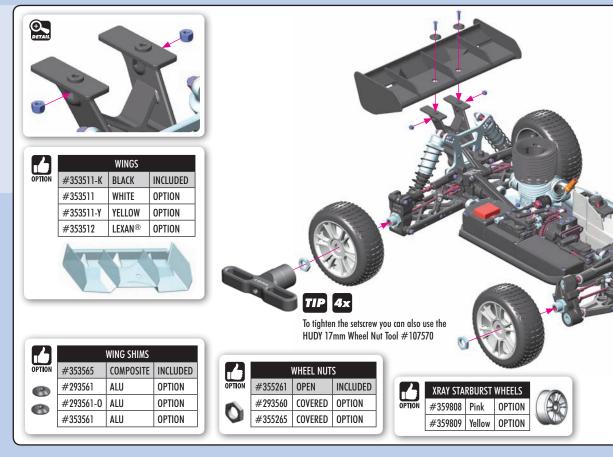




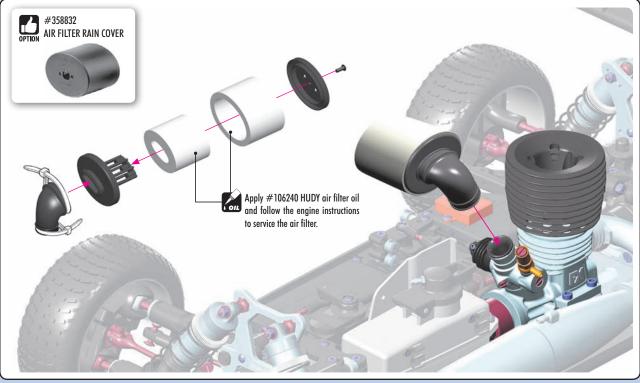


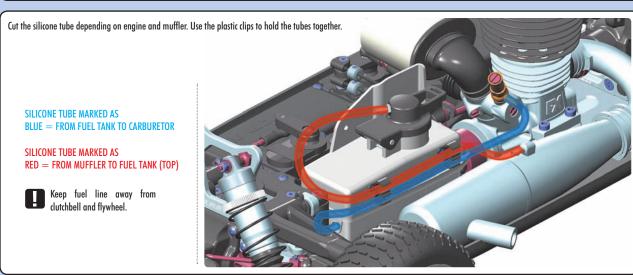


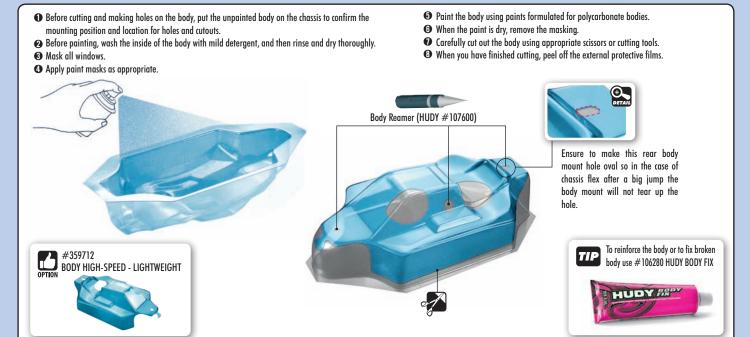












ENGINE OPERATION

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 aet inside the enaine.
- 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.

- 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.
- Put the car on the starter box and keep the tires from touching the ground.
- 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.
- 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 raa to cover the exhaust tip. Be careful! The exhaust is extremely hot so use a thick raa 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.
- 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 ballbearings 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.
- 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.
- 7. Hold the inner part of the bearing with my left thumb/forefinger and spin it to make sure it spins free
- Place one drop of bearing oil into each side of the bearing.
- 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.

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.

without any abnormal vibrations or sounds.

HUDY #106230



HUDY



HUDY



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HUDY

#106221



THROTTLE LINKAGE ADJUSTMENT

NEUTRAL (IDLE) ADJUST INDIVIDUAL LINKAGES SEPARATELY TO AVOID INTERFERING WITH THE OPERATION OF THE OTHERS

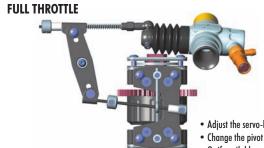




• Turn on the transmitter and receiver and set the engine control servo trim to the neutral position.

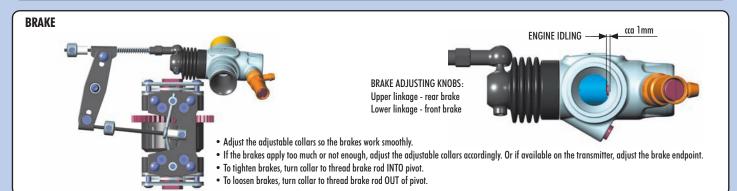
- Adjust the idle adjustment screw on the carburetor to open approx. 1mm.
- Adjust both the throttle linkage and brake linkages accordingly.
- DO NOT adjust the linkage with the engine running.

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





- 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.



TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
ENGINE DOES NOT START	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	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	Fuel tank is empty Fuel lines, fuel filter, air cleaner, or muffler is clogged Carburetor is not adjusted properly Engine has overheated	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	Carburetor is not adjusted properly Fuel lines, fuel filter, air cleaner, or muffler is clogged Low fuel pressure from muffler	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	Weak transmitter and/or receiver batteries Low reception from radio antennas Servo linkages not adjusted properly	Recharge or replace batteries Fully extend transmitter and receiver antennas Move servo to neutral then re-adjust linkage(s)
STEERING DOES NOT WORK PROPERLY	Weak transmitter and/or receiver batteries Bent linkages or driveshafts Loose steering components Drivetrain damage	Recharge or replace batteries Check tightness of steering components and tighten if necessary Replace damaged parts
HANDLING PROBLEMS	Shocks are not working properly Suspension is binding Improper tires	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	Suspension is binding Damaged steering servo	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	Suspension is binding Steering trim is off-center Wheels are loose Damaged steering servo	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

www.feamxray.com

XRAY EUROPE

XRAY, K VÝSTAVISKU 6992, 91101 TRENCIN, SLOVAKIA, EUROPE PHONE: +421-32-740 11 00, FAX: +421-32-740 11 09, info@teamxray.com

XRAY USA

RC AMERICA, 2030 Century Center Blvd #15, Irving, TX 75062, USA PHONE: 214-744-2400, FAX: 214-744-2401, xray@rcamerica.com













