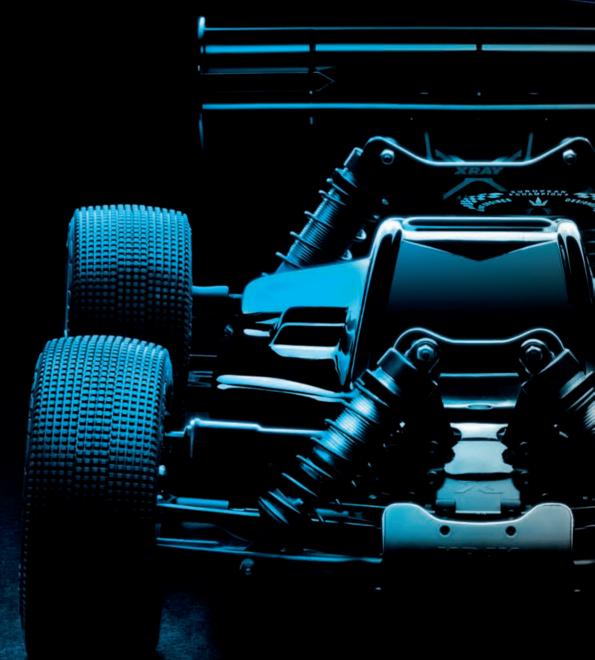
1/8 LUXURY OFF-ROAD BUGGY

A PARTIES



INSTRUCTION MANUAL
XRAY XB8'25

BEFORE YOU START

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

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

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

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

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.

teamxrav.com

XRAY Europe

K Výstavisku 6992 91101 Trenčín Slovakia, EUROPE Phone: +421-32-7401100 Fax: +421-32-7401109

Email: info@teamxrav.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 ARIJSE 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 CALISE 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 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
- DO NOT use your model:
- Near real cars, animals, or people that are unaware that an RC car is being driven.
- In places where children and people gather
- In residential districts and parks - In limited indoor spaces
- In wet conditions
- In the street
- -In areas where loud noises can disturb others, such as hospitals and residential areas.
- At night or anytime your line of sight to the model may be obstructed or impaired in any way.

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



IMPORTANT NOTES - NITRO ENGINES

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



IMPORTANT NOTES – ELECTRICAL

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) to prevent
 dangerous short circuits. Take maximum care in wiring, connecting and insulating cables. Make
 sure cables are always connected securely. Check connectors for if they become loose. And if
 so, reconnect them securely. Never use R/C models with damaged wires. A damaged wire is
 extremely dangerous, and can cause short-circuits resulting in fire. Please have wires repaired
 at your local hobby shop.
- Low battery power will result in loss of control. Loss of control can occur due to a weak battery
 in either the transmitter or the receiver. Weak running battery may also result in an out of control
 car if your car's receiver power is supplied by the running battery. Stop operation immediately
 if the car starts to slow down.
- When not using RC model, always disconnect and remove battery.
- DO NOT disassemble battery or cut battery cables. If the running battery short-circuits, approximately 300W of electricity can be discharged, leading to fire or burns. Never disassemble battery or cut battery cables.
- Use a recommended charger for the receiver and transmitter batteries and follow the instructions correctly. Over-charging, incorrect charging, or using inferior chargers can cause the batteries to become dangerously hot. Recharge battery when necessary. Continual recharging may

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



IMPORTANT NOTES - NITRO FUEL

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

R/C & BUILDING TIPS

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

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

WARRANTY

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

Due to the high performance level of this model car you will need to periodically maintain and replace consumable components. Any and all warranty coverage will not cover replacement of any part or component damaged by neglect, abuse, or improper or unreasonable use. This includes but is not limited to damage from crashing, chemical and/or water damage, excessive moisture, improper or no maintenance, or user modifications which compromise the integrity of components. Warranty will not cover components that are considered consumable on RC vehicles. XRAY DOES NOT pay nor refund shipping on any component sent to XRAY or its distributors for

warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

Limitations of Liability

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

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

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

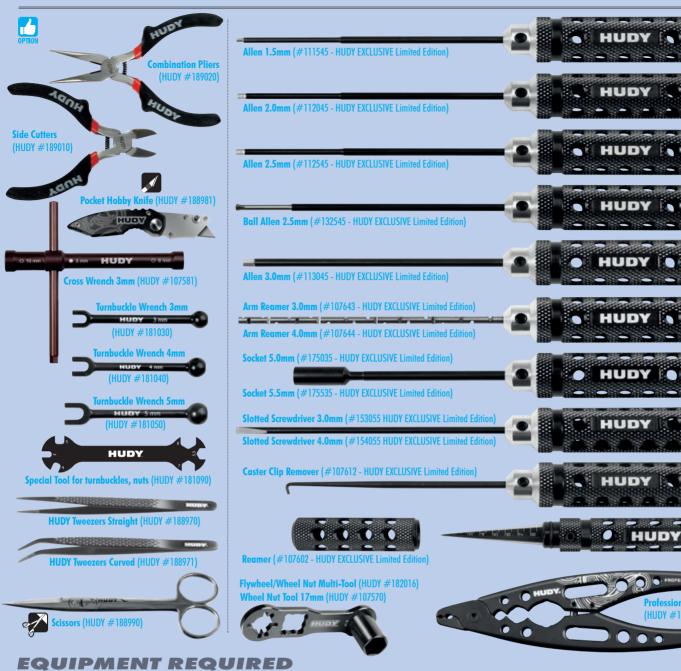
QUALITY CERTIFICATE

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

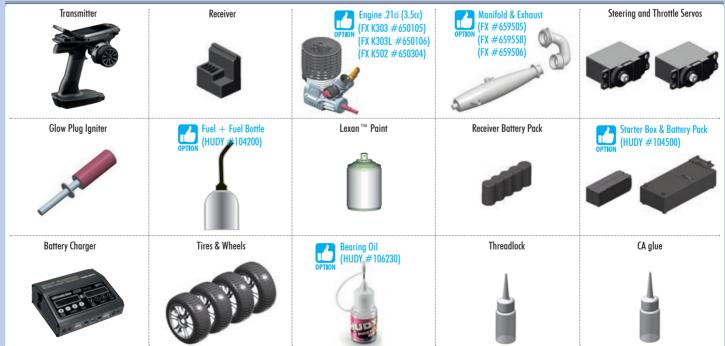
abused, neglected or improperly operated will not be covered under warranty. We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

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

TOOLS REQUIRED







EQUIPMENT INCLUDED









351203

355006

350912





(HUDY #106240)



At the beginning of each section is an exploded view of the parts to be assembled. There is also a list of all the parts and part numbers that are related to the assembly of that section.

The part descriptions are color-coded to make it easier for you to identify the source of a part. Here are what the different colors mean:

STYLE A - indicates parts that are included in the bag marked for the section.

351192 STYLE B - indicates parts that are included in the box.

STYLE C - indicates parts that are already assembled from previous steps.

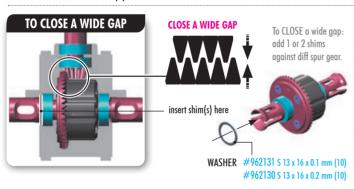
STYLE D - indicates parts that are optional.

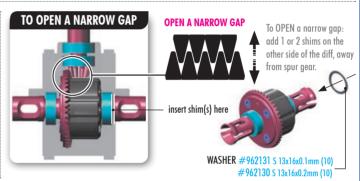
XB8 TECH TIPS

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:





CHECK GEAR MESH AND DIFF PLAY ONLY AFTER THE ENTIRE GEARBOX IS MOUNTED TOGETHER WITH THE SUSPENSION HOLDERS ON THE CHASSIS. ALL PARTS ARE DESIGNED TO HAVE CERTAIN PLAY AND IT IS ALL DESIGNED BY PURPOSE.

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 they 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 pins that connect the center driveshafts with the pinion gear and the pins connecting the wheel drive shafts to the wheel axles.
- Pivot balls and ball joints will wear naturally and over time will develop minor play. If there is excess play, the pivot balls and ball joints should 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.
- Clean and re-grease after every 2 hours of driving

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 may fade over time, but this will not affect the strength of the material. The brown color is only a surface treatment, and any color fade will not impact the durability of the part.

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 nins are worn

Press out the worn pins

Press in new pins and regularly inspect for wear

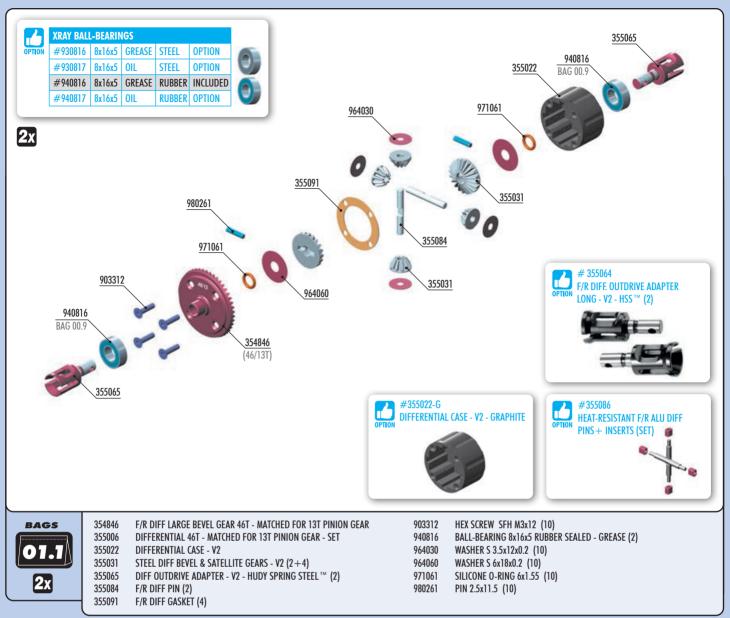


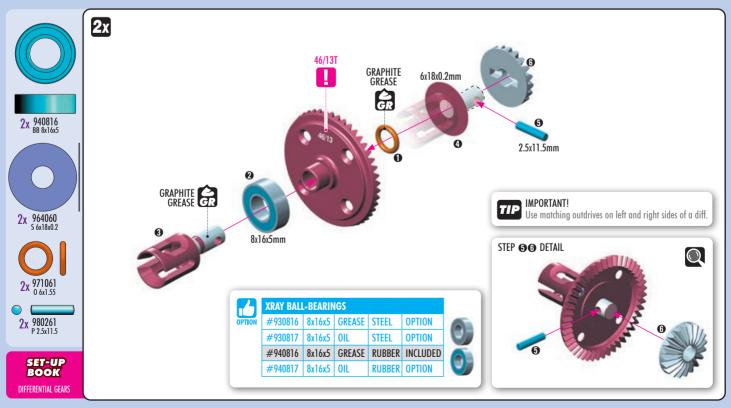
For easy drive pin replacements use #106000 **HUDY Drive Pin Replacement Tool.**



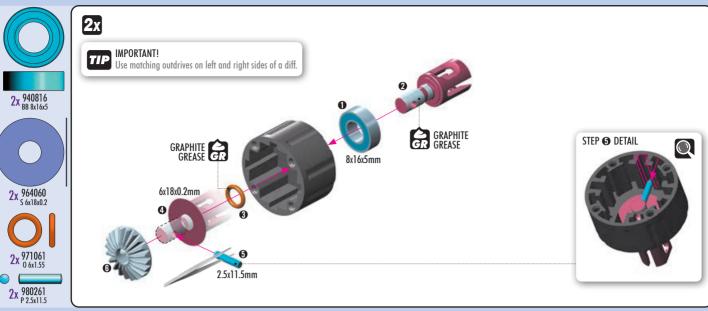
To replace the worn pins use only premium HUDY drive pins #106050.

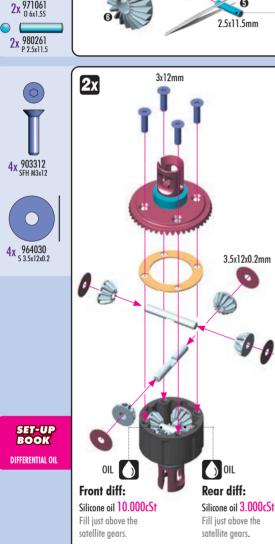
1. FRONT & REAR DIFFERENTIALS

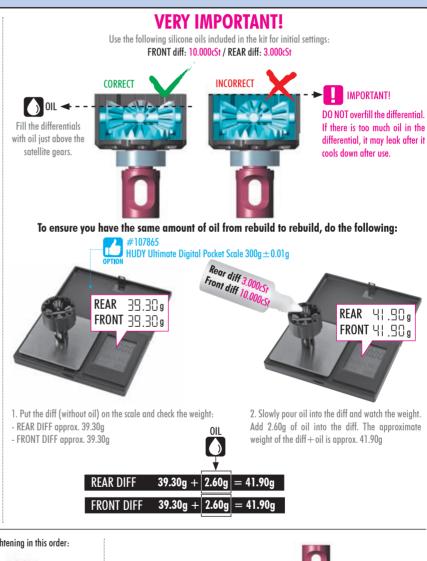


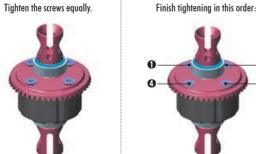


1. FRONT & REAR DIFFERENTIALS

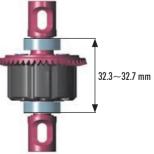




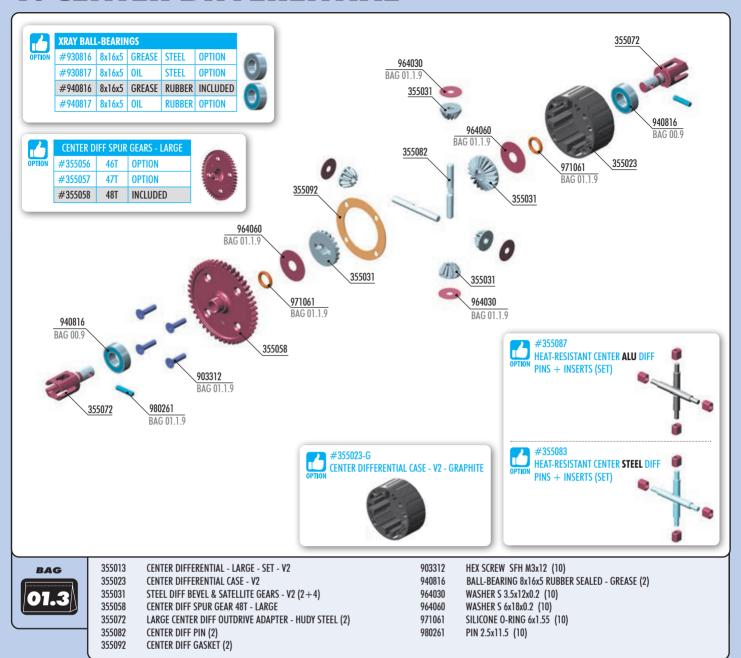


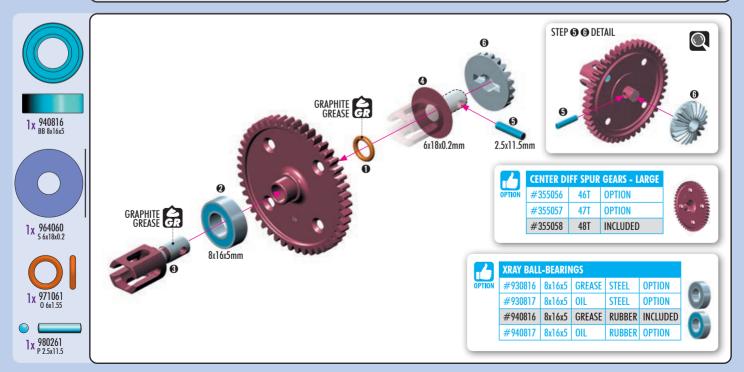


After assembly the differentials should have a length of $32.3\!\sim\!32.7$ mm measured from the ends of the installed ball-bearings. If the differentials are longer, check that the gear is properly seated on the case and retighten the 4 screws while holding the crown gear.

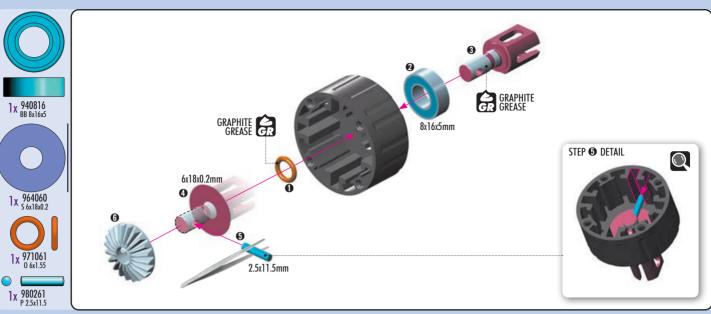


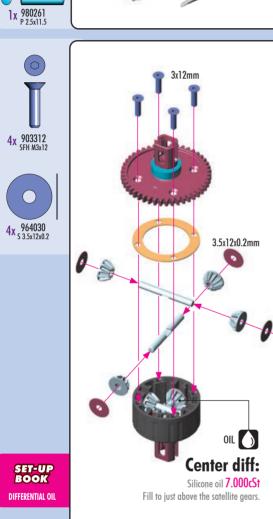
1. CENTER DIFFERENTIAL

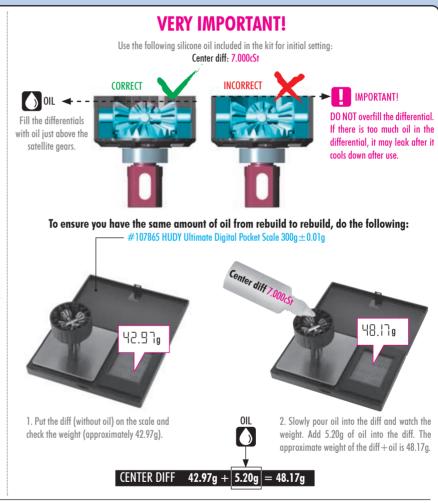


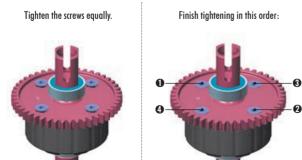


1. CENTER DIFFERENTIAL



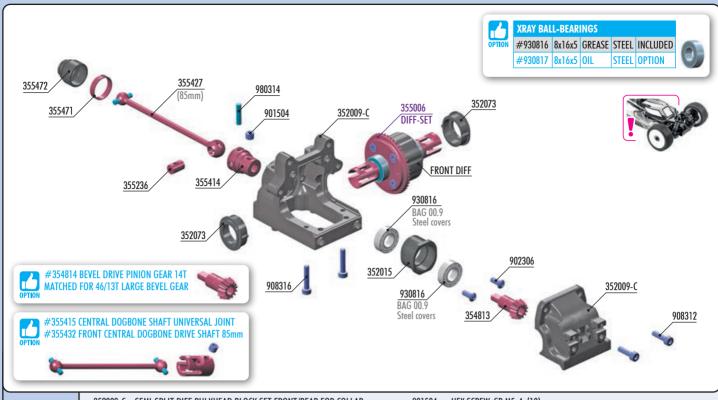






After assembly the differential should have a length of 32.3~32.7mm measured from the ends of the installed ball-bearings. If the differential is longer, check that the gear is properly seated on the case and retigithten the 4 screws while holding the spur gear.

2. FRONT TRANSMISSION



02

352009-C SEMI-SPLIT DIFF BULKHEAD BLOCK SET FRONT/REAR FOR COLLAR
352015 GEARBOX PINION HEIGHT INSERT (1+1)
352073 GEARBOX DIFF HEIGHT INSERT (2+2)
354813 BEVEL DRIVE PINION GEAR 13T - MATCHED FOR 46T LARGE BEVEL GEAR
355236 CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
355414 CENTRAL CVD SHAFT UNIVERSAL JOINT - HUDY SPRING STEEL™

FRONT CENTRAL CVD DRIVE SHAFT 85mm - HUDY SPRING STEEL™

355471 DRIVE SHAFT LOCKING RING (2) 355472 DRIVE SHAFT BOOT (2)

355427

901504 HEX SCREW SB M5x4 (10) 902306 HEX SCREW SH M3x6 (10)

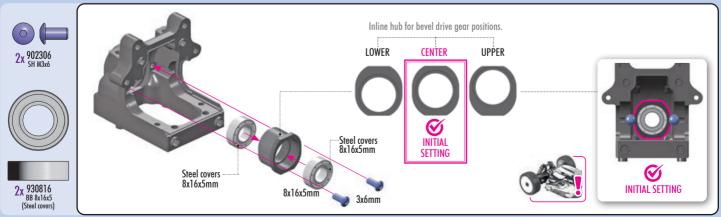
902306 HEX SCREW SH M3x6 (10)
908312 HEX SCREW SOCKET HEAD CAP SCH M3x12 (10)
908316 HEX SCREW SOCKET HEAD CAP SCH M3x16 (10)
930816 BALL-BEARING 8x16x5 STEEL SEALED - GREASE (2)

980314 PIN 3x14 (10)

355006 DIFFERENTIAL 46T - MATCHED FOR 13T PINION GEAR - SET

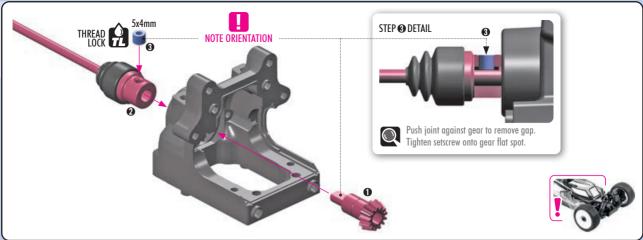




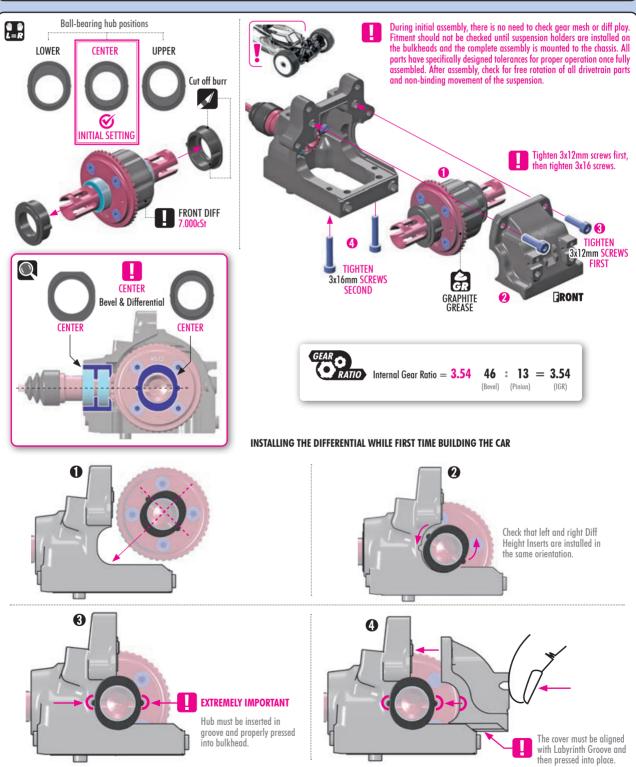


2. FRONT TRANSMISSION





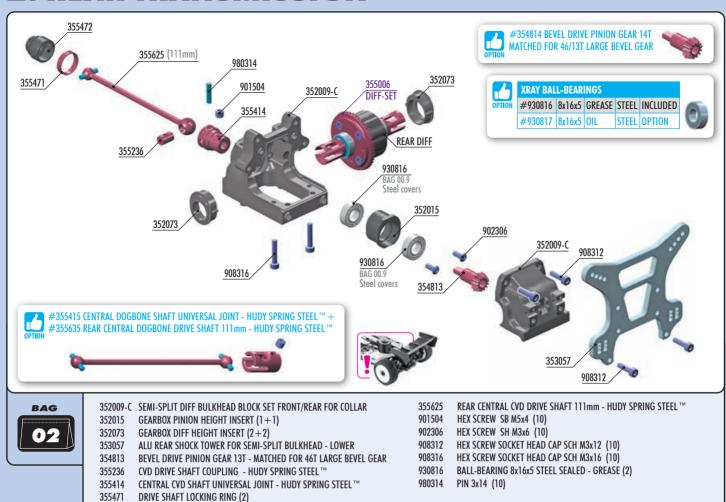


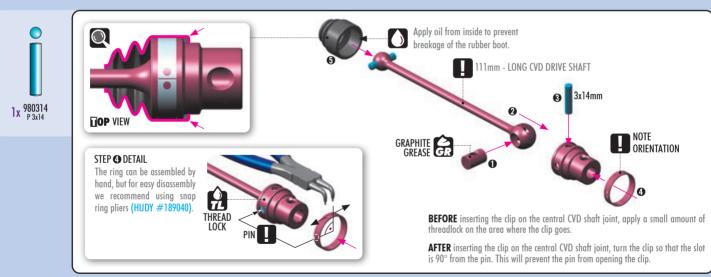


2. REAR TRANSMISSION

355472

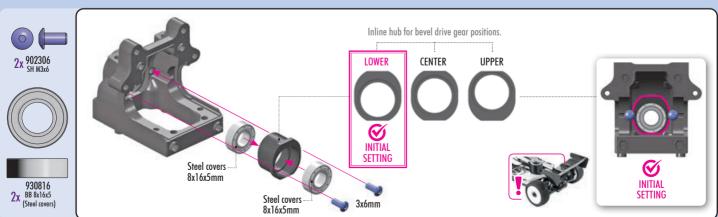
DRIVE SHAFT BOOT (2)





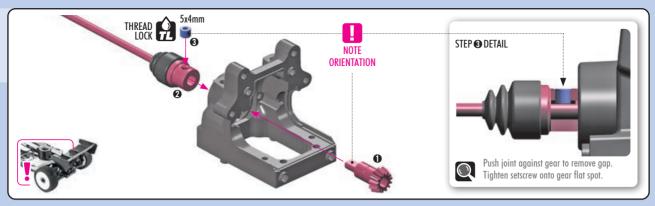
355006

DIFFERENTIAL 46T - MATCHED FOR 13T PINION GEAR - SET

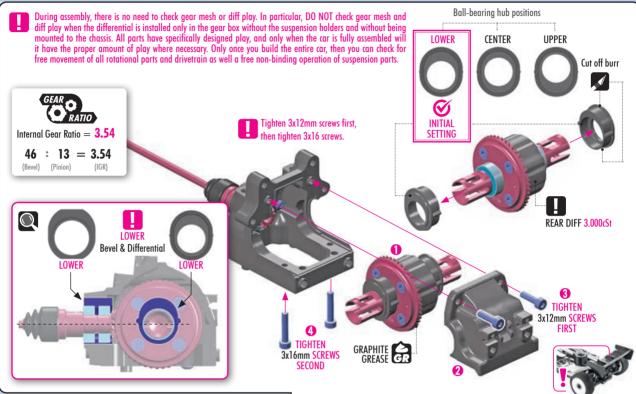


2. REAR TRANSMISSION

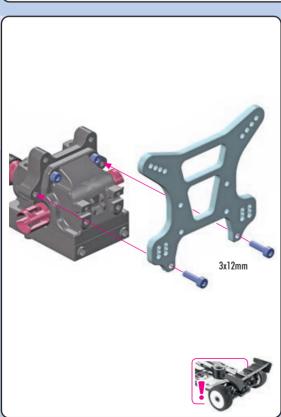


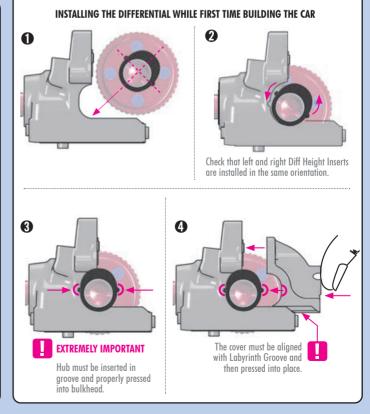


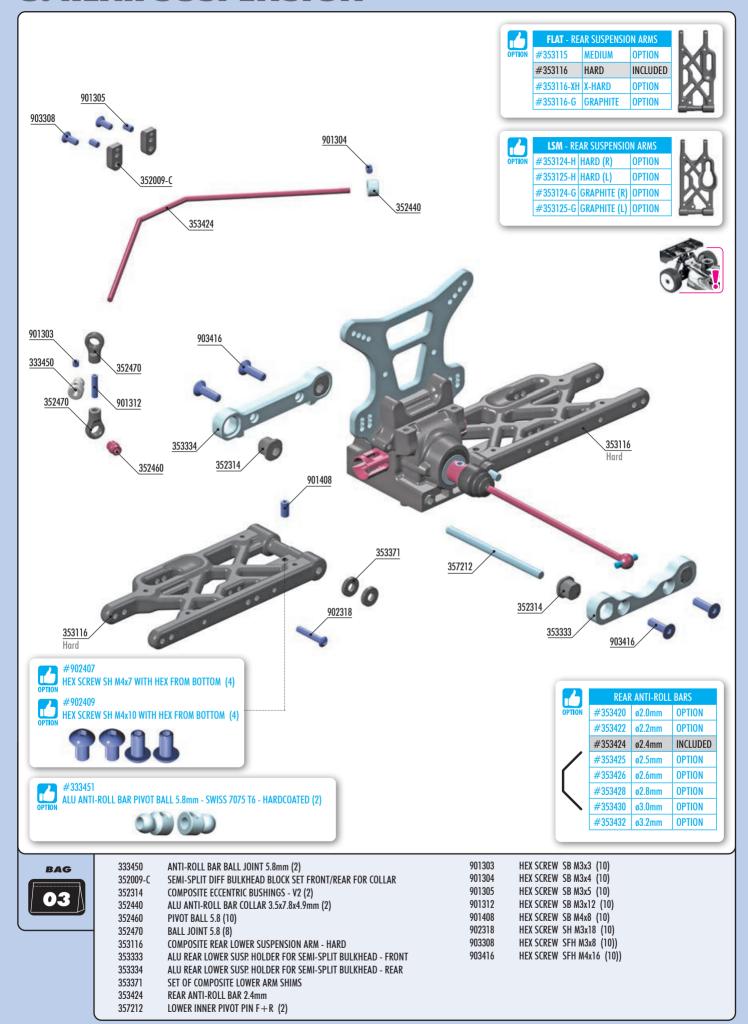




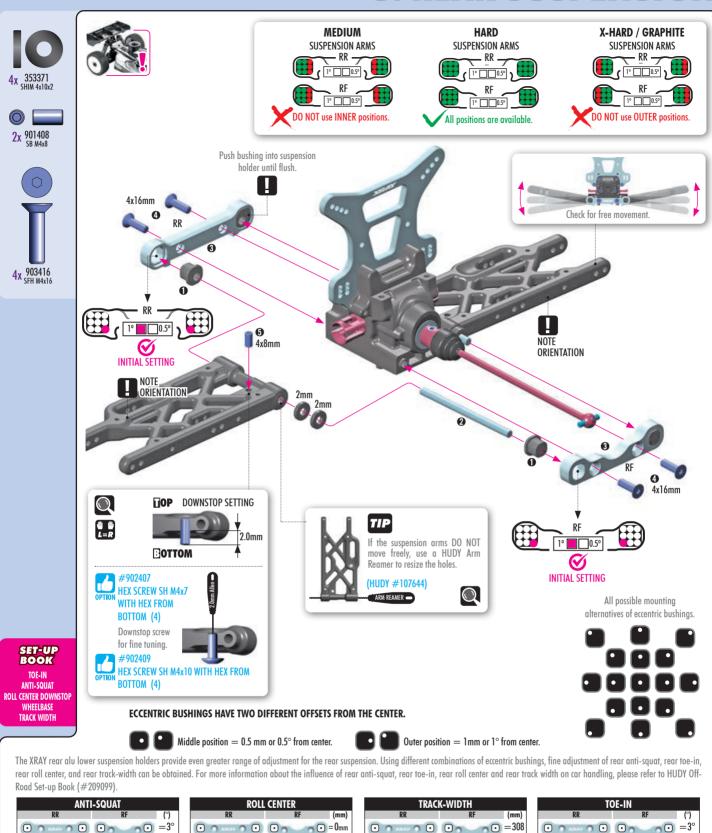








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AN	TI-SQUA	Ţ	
RR		RF	(°)
O 1 1	00	- 70	=3°
0 0 0	0	70	=4°
On	On	 0	=2°
0 0 0 0) On	→ 0	=4°
0 0 0 0) On	-n0	=3°
0 1	On	->0	=5°
0 0 0 0) On	<u></u>	=2°
<u> </u>	On	->0	=3°
0 0 0 0	0 0 1	-n0	=1°

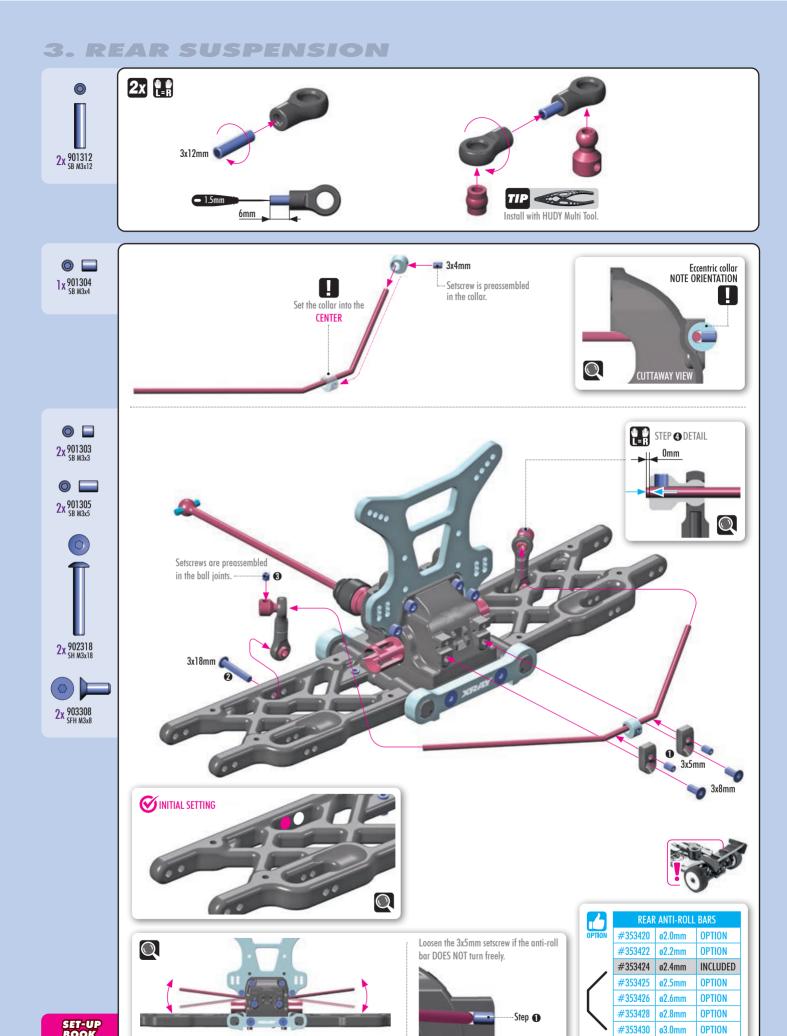
KULL CENTEK				
RR	RF	(mm)		
0 0 0	0, 0	= 0 _{mm}		
O n n O	0 - 10	= 1 _{mm}		
	0, ,0	=-1mm		

IKACK-WIDIH					
RR	RR RF (mm)				
0 0 0	01 10	=308			
0 0 0	00	=306			
0 0 0	0 0	=310			

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

0	O KEN O	0	00	0	=3°
0	O KENY O	0	00		=4°
0	O xxx O	0	0	D	=2°
0	O KENY O	0	0	0	=2°
0	O xxx O	0	00		=3°
0	O KENY O	0	0	0	=1°
0	O KENT O	0	0	0	=4°
0	O KENT O	0	00	-0	=5°
0	0 **** 0	0	0	D	=3°



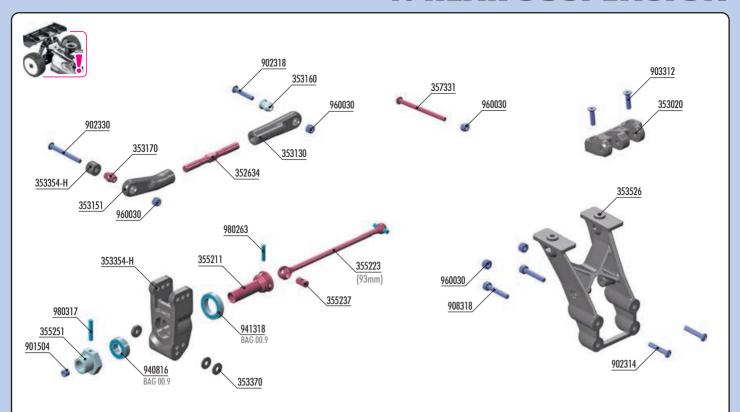
SET-UP BOOK ANTI-ROLL BAR

Step 1 check for free movement.

OPTION

ø3.2mm

#353432



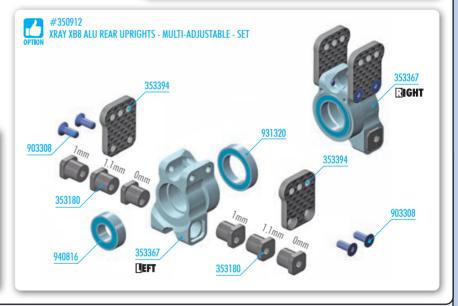










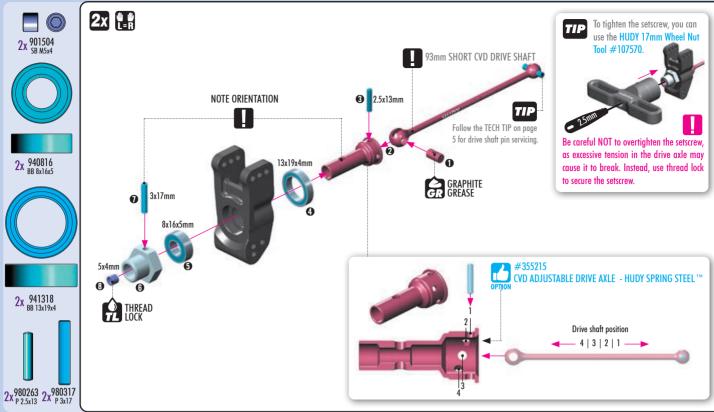


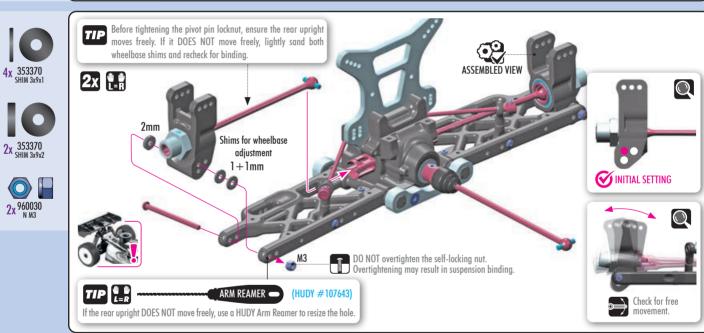
#355215

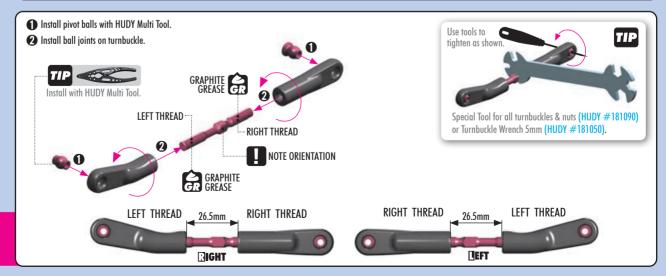


352634	ADJ. TURNBUCKLE M5 L/R 50mm - HUDY SPRING STEEL ™ (2)
353020	COMPOSITE REAR BRACE HOLDER
353130	REAR UPPER INNER CAMBER LINK BALL JOINT (2)
353151	RELIEF REAR UPPER OUTER CAMBER LINK BALL JOINT (2)
353160	MOUNTING BALL 6.8 (4)
353170	PIVOT BALL 6.8 (4)
353354-H	COMPOSITE REAR UPRIGHT - HARD
353370	SET OF COMPOSITE REAR HUB CARRIER SHIMS
353526	COMPOSITE REAR WING HOLDER FOR SEMI-SPLIT BULKHEAD
355211	CVD DRIVE AXLE - HUDY SPRING STEEL™
355223	CVD UNIVERSAL DRIVE SHAFT 93mm - HUDY SPRING STEEL™
355237	CVD DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
355251	ALU WHEEL AXLE OFFSET "+1mm"- BLACK COATED (2)

357331	REAR LOWER OUTER PIVOT PIN SCREW 3mm (2)
901504	HEX SCREW SB M5x4 (10)
902314	HEX SCREW SH M3x14 (10)
902318	HEX SCREW SH M3x18 (10)
902330	HEX SCREW SH M3x30 (10)
903312	HEX SCREW SFH M3x12 (10)
908318	HEX SCREW SOCKET HEAD CAP SCH M3x18 (10)
940816	BALL-BEARING 8x16x5 RUBBER SEALED - GREASE (2)
941318	BALL-BEARING 13x19x4 RUBBER SEALED - GREASE (2)
960030	NUT M3 (10)
980263	PIN 2.5x13 (10)
980317	PIN 3x17 (10)

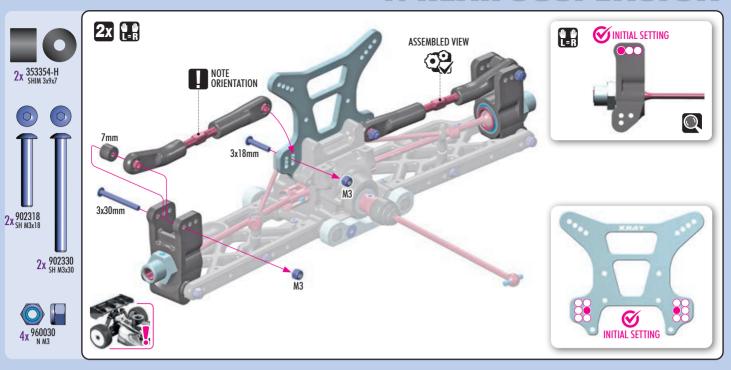




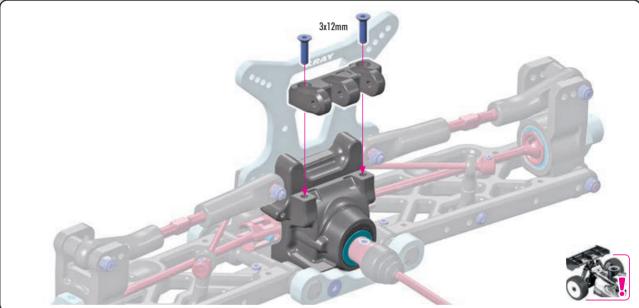


CAMBER

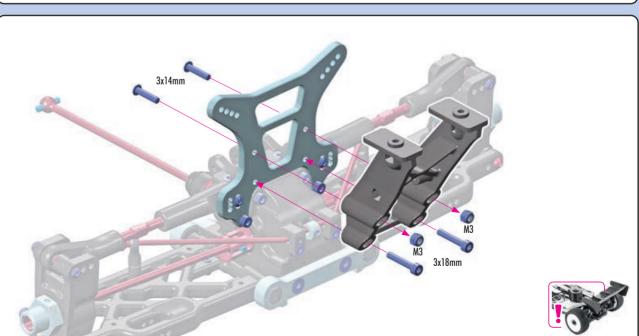
SET-UP BOOK

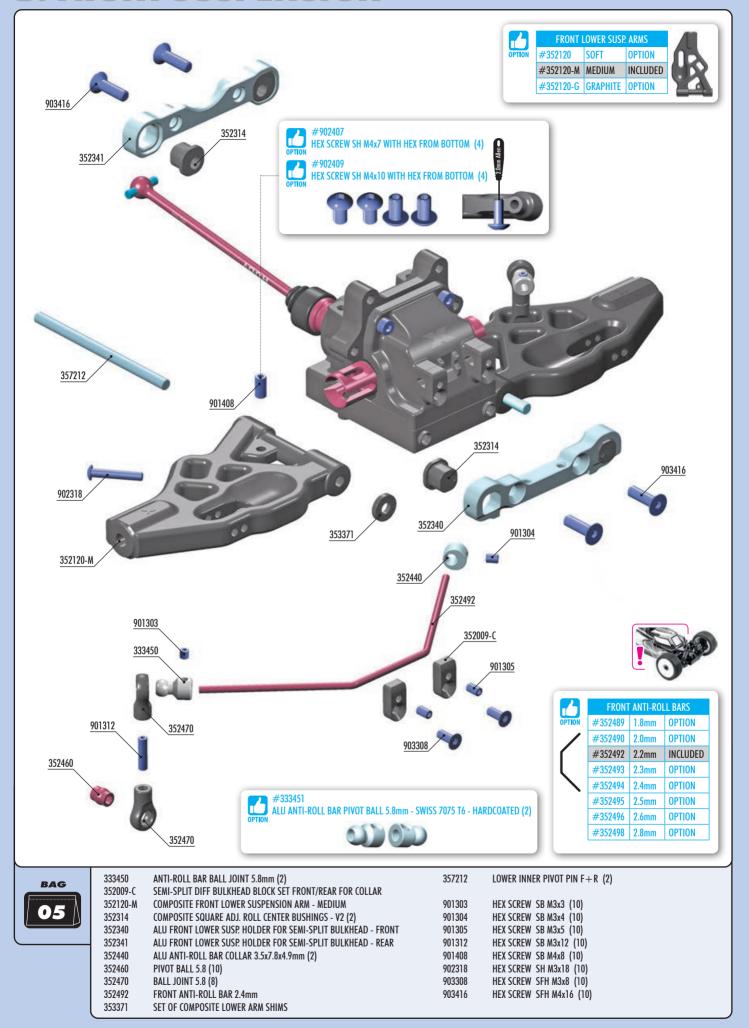




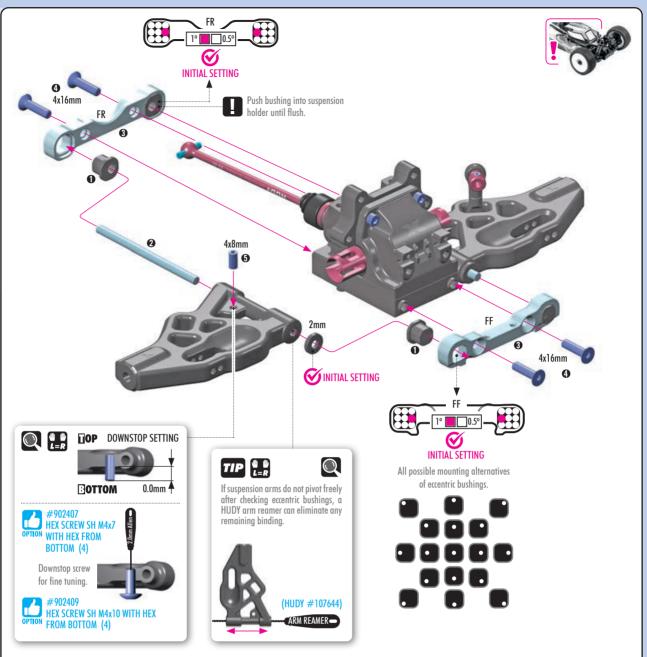


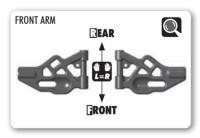


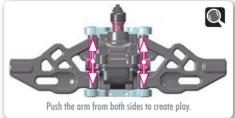














Eccentric bushings have two different offsets from the center.

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

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).

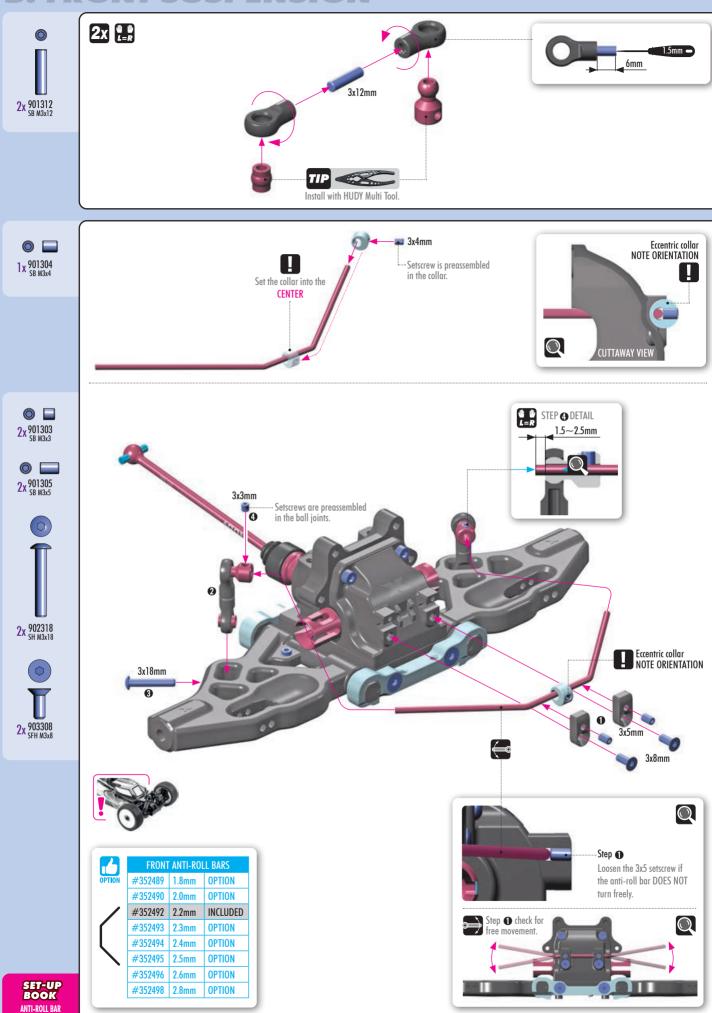
	FF	FR	(mm)
<u>O</u> n	0.0	0000	=308
<u>O</u> n	-00	0000	=306
0	-00	0 1 0	=310*

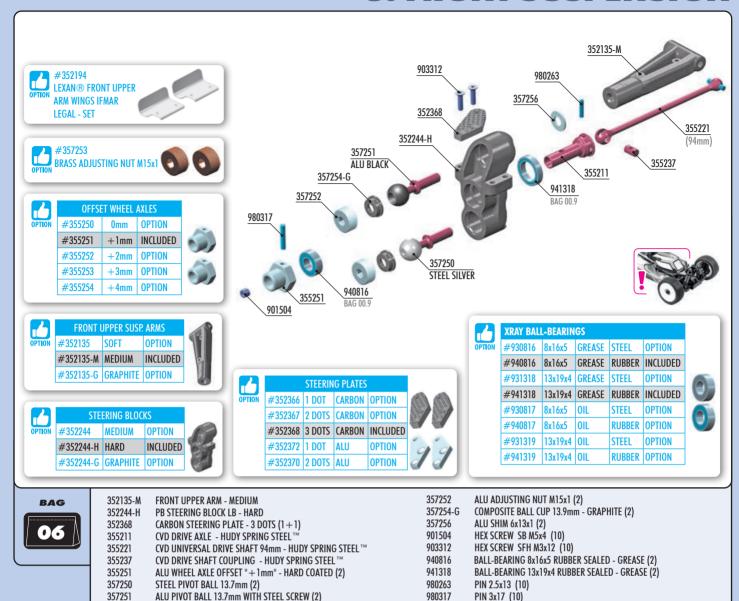
	FF	FR		(mm)
0	00	00	0	=1
<u>O</u> n	00	0	0	=0
<u>O</u> n	0.0	0	.	=-1

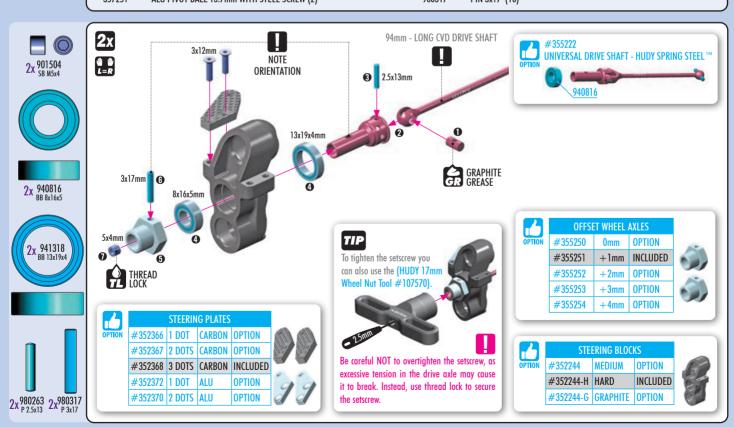
The tables above describe the changes to kick-up and front track width when using the 0 and 1mm/1deg offset bushings. The .5mm/.5deg bushings reduce setting changes by half.

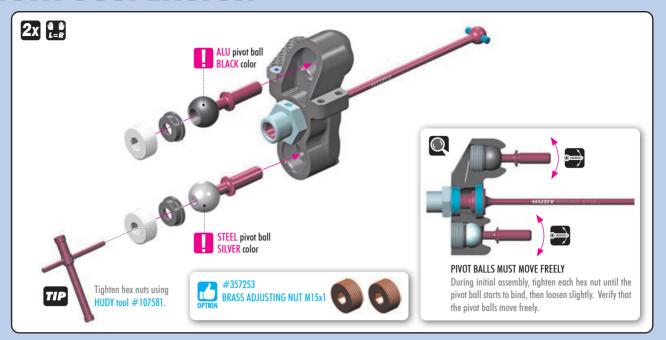
* NOT recommended to use this setting.

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

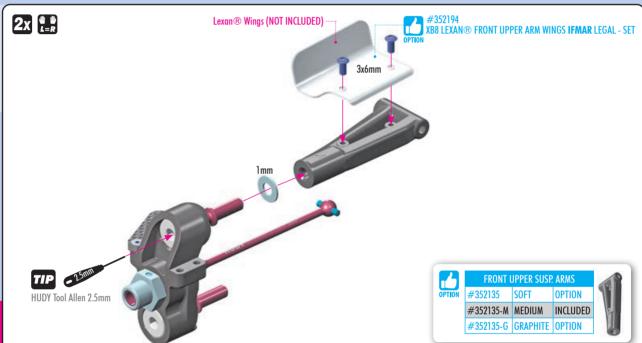




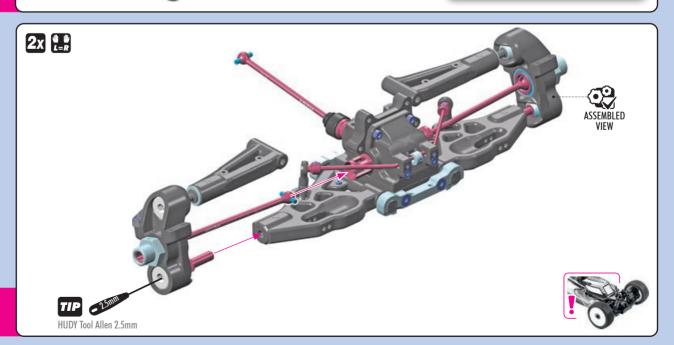






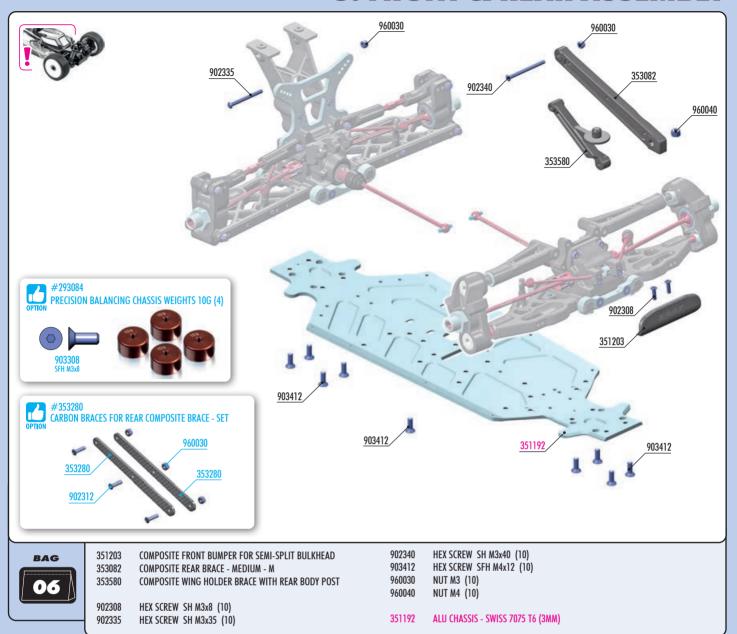


SET-UP BOOK CAMBER TRACK-WIDTH

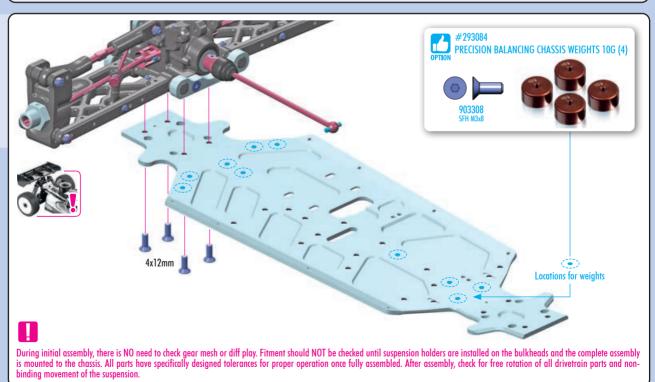




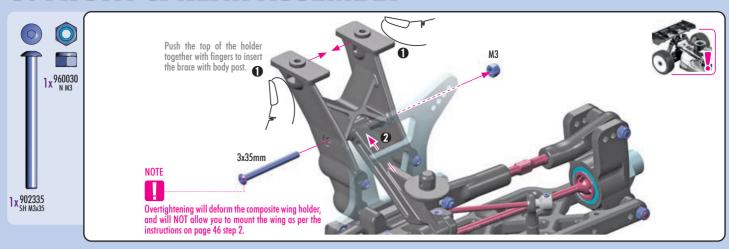
6. FRONT & REAR ASSEMBLY

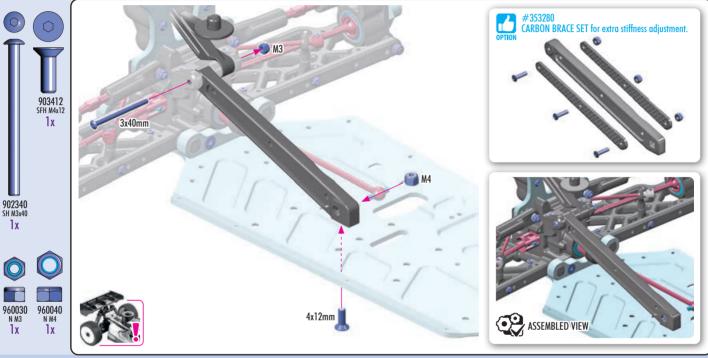


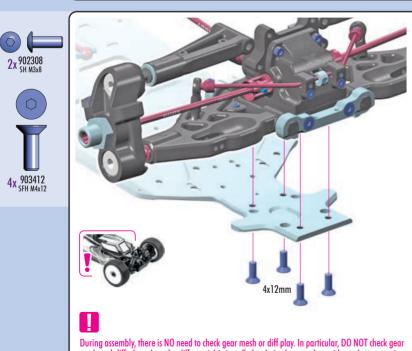


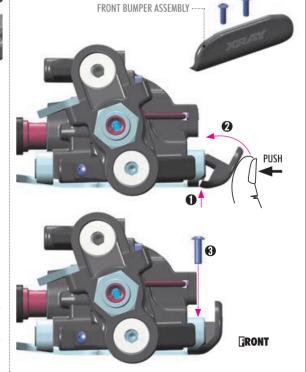


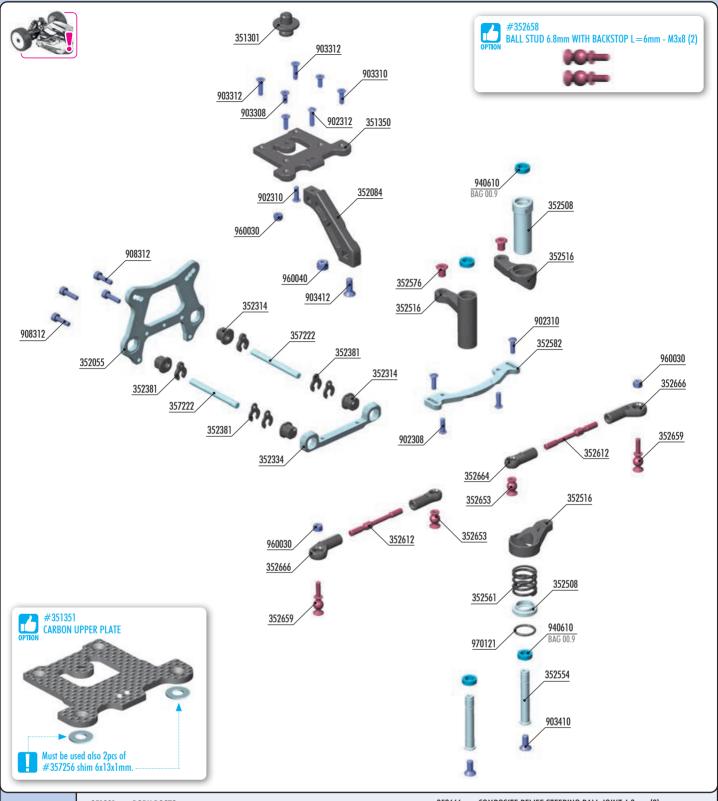
6. FRONT & REAR ASSEMBLY





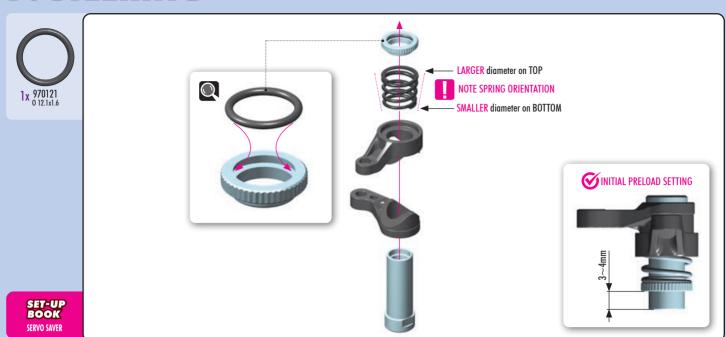


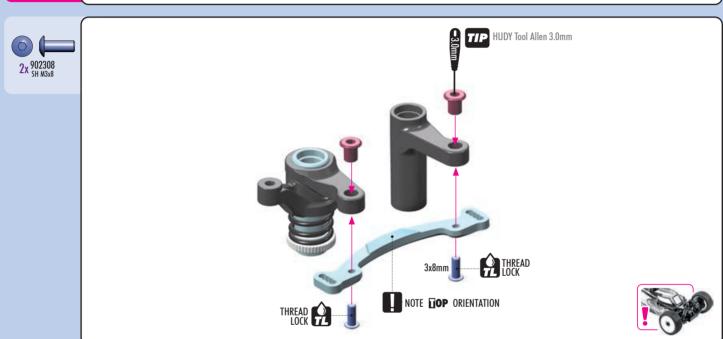


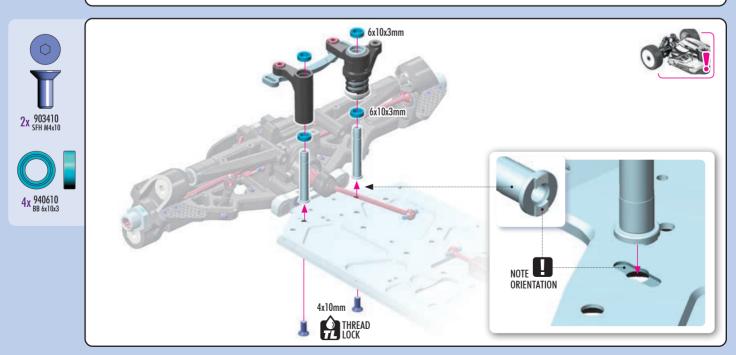


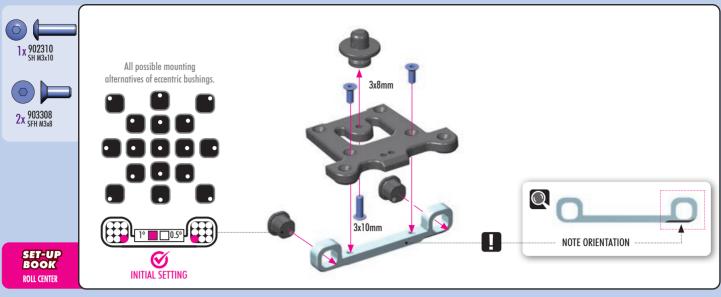


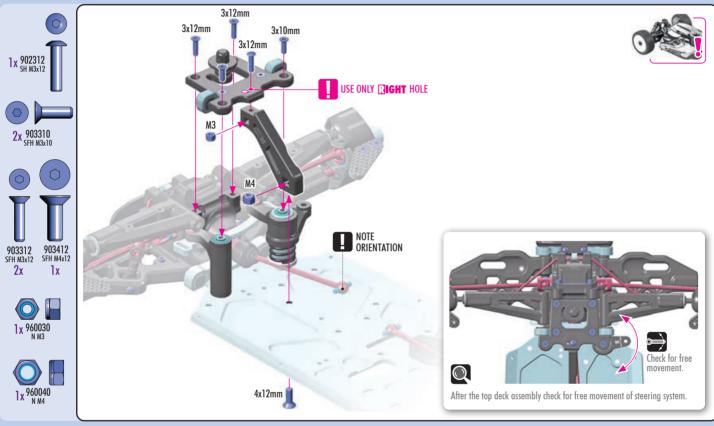
351301	BODY POSTS	352666	COMPOSITE RELIEF STEERING BALL JOINT 6.8mm (2)
351350	COMPOSITE UPPER PLATE WITH TWO BRACE POSITIONS	357222	FRONT UPPER PIVOT PIN 4x45 (2)
352055	ALU FRONT SHOCK TOWER FOR SEMI-SPLIT BULKHEAD - LOWER		
352084	COMPOSITE FRONT BRACE	902308	HEX SCREW SH M3x8 (10)
352314	COMPOSITE SQUARE ADJ. ROLL CENTER BUSHINGS - V2 (2)	902310	HEX SCREW SH M3x10 (10)
352334	ALU FRONT UPPER ARM HOLDER FOR SEMI-SPLIT BULKHEAD	902312	HEX SCREW SH M3x12 (10)
352381	CASTER CLIPS (2)	903308	HEX SCREW SFH M3x8 (10)
352508	SERVO SAVER FOR SEMI-SPLIT BULKHEAD - GRAPHITE - SET	903310	HEX SCREW SFH M3x10 (10)
352516	COMPOSITE SERVO SAVER FOR SEMI-SPLIT BULKHEAD - GRAPHITE	903312	HEX SCREW SFH M3x12 (10)
352554	ALU SERVO SAVER PIVOT SHAFT WITH CHASSIS LOCK (2)	903410	HEX SCREW SFH M4x10 (10)
352561	SERVO SAVER SPRING PROGRESSIVE	903412	HEX SCREW SFH M4x12 (10)
352576	STEERING PLATE BUSHING (2)	908312	HEX SCREW SOCKET HEAD CAP SCH M3x12 (10)
352582	ALU STEERING PLATE FOR SEMI-SPLIT BULKHEAD - SWISS 7075 T6	940610	BALL-BEARING 6x10x3 RUBBER SEALED - OIL (2)
352612	ADJ. TURNBUCKLE M4 L/R 45mm - HUDY SPRING STEEL™ (2)	960030	NUT M3 (10)
352653	BALL STUD 6.8mm WITH BACKSTOP - M3 (2)	960040	NUT M4 (10)
352659	BALL STUD 6.8mm WITH BACKSTOP L=6mm - M3x11 (2)	970121	O-RING 12.1 x 1.6 (10)
352664	COMPOSITE STEERING BALL JOINT 6.8mm - V3 (2)		

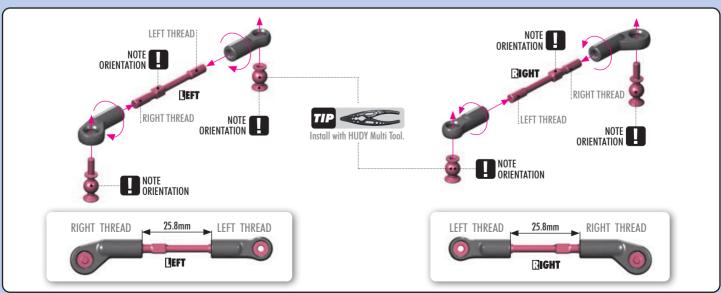




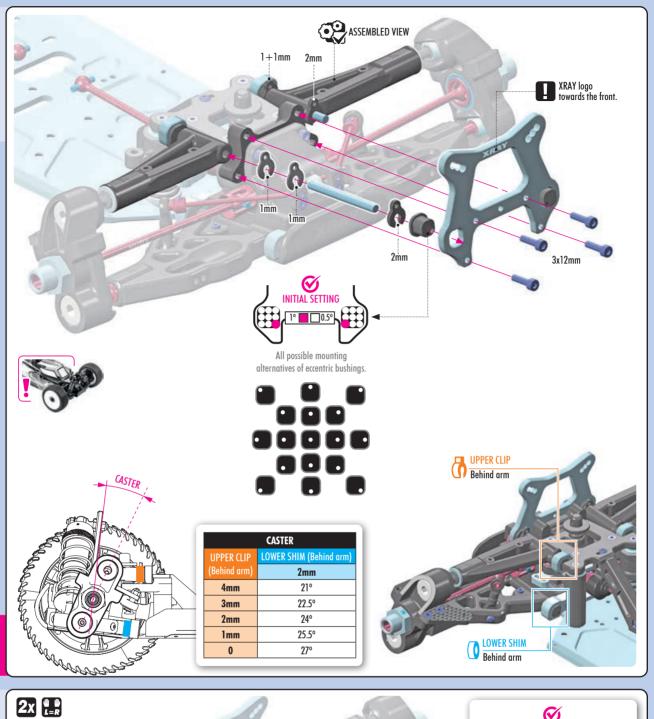




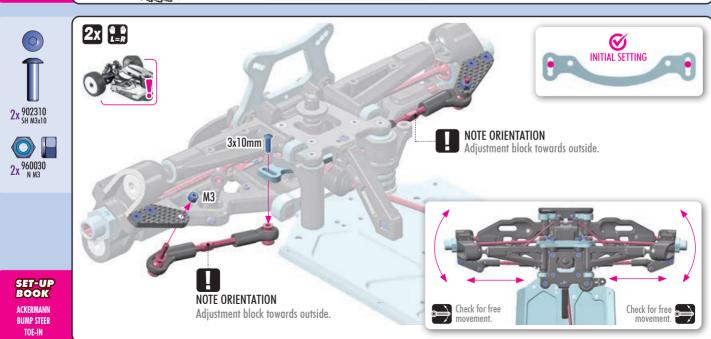




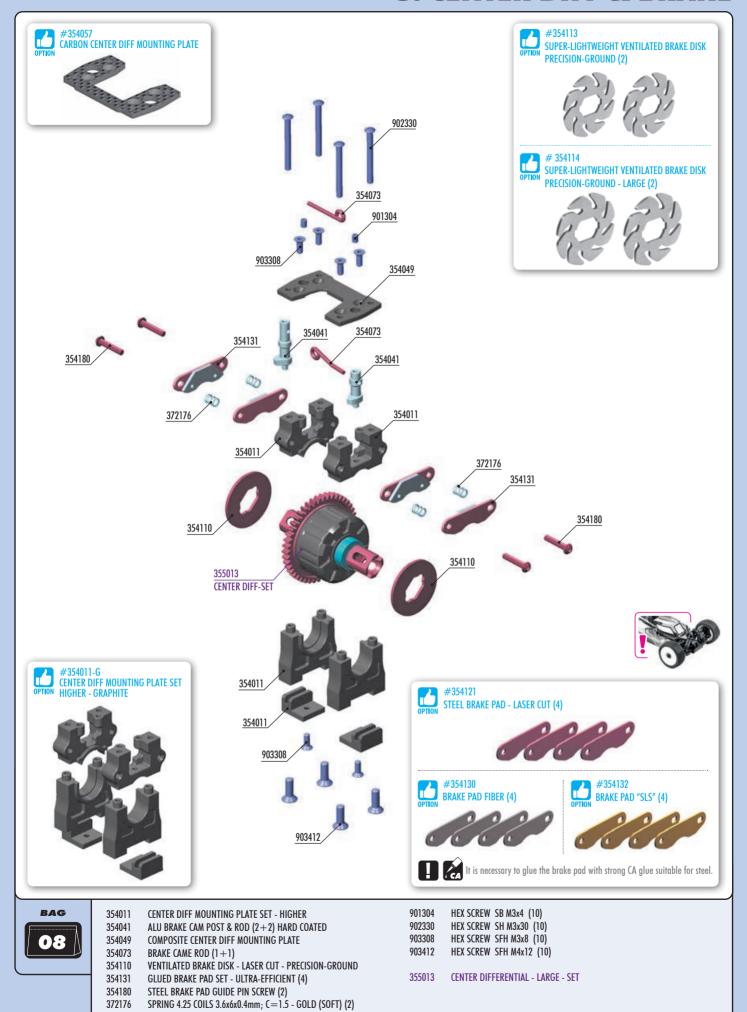




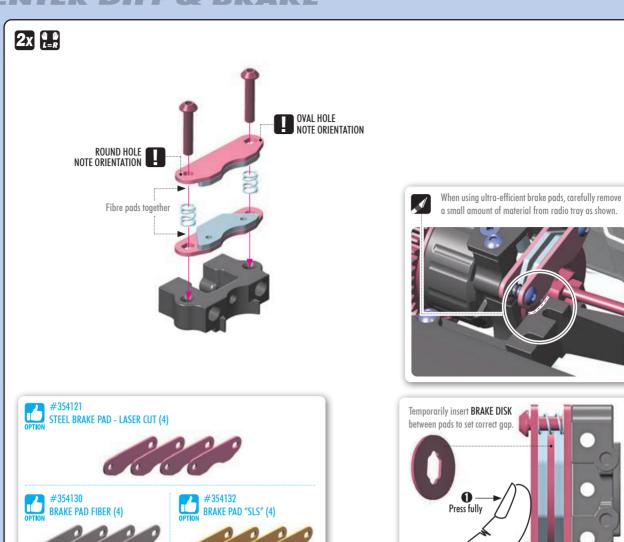
SET-UP BOOK ROLL CENTER CASTER



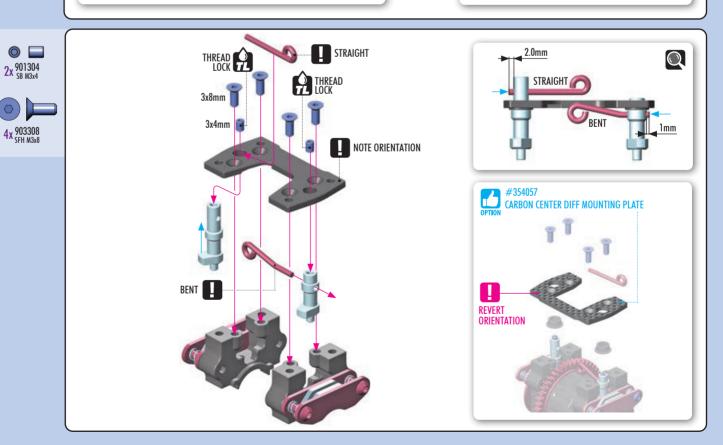
8. CENTER DIFF & BRAKE



8. CENTER DIFF & BRAKE



It is necessary to glue the brake pad with strong CA glue suitable for steel.

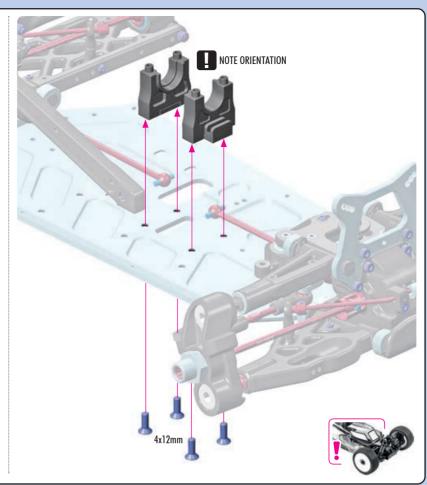


0.5 mm 2 Set value

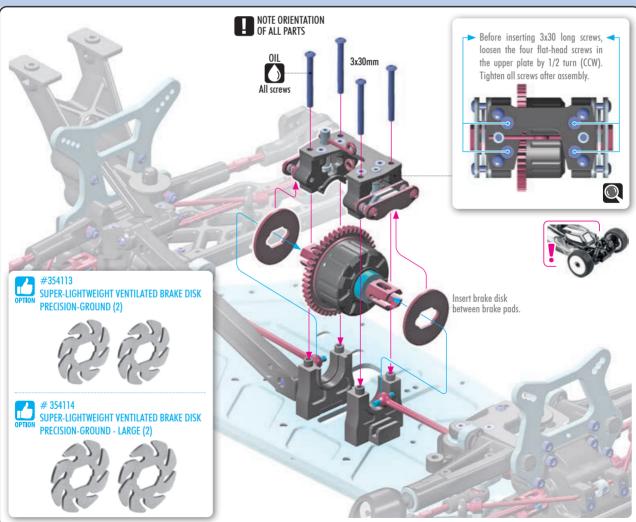
8. CENTER DIFF & BRAKE





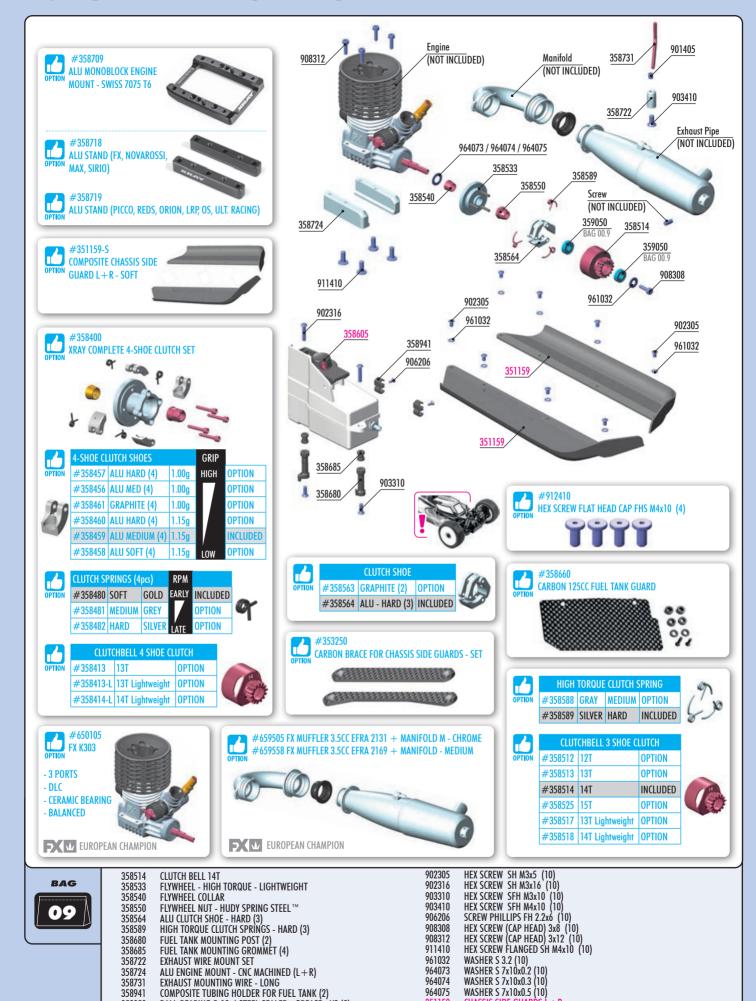






MB8'25

9. FUEL TANK & ENGINE



BALL-BEARING 5x10x4 STEEL SEALED - GREASE - V2 (2) HEX SCREW SB M4x5 (10)

359050

901405

XXXX

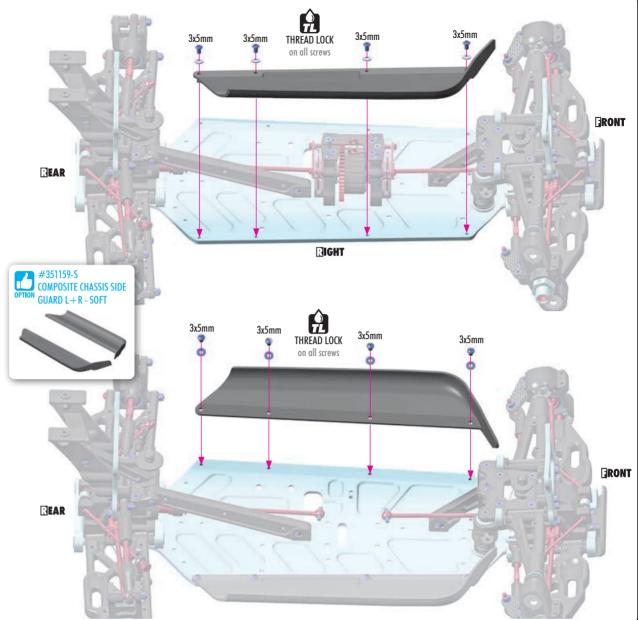
FUEL TANK 125CC WITH FLOATING FILTER & TRANSIENT JET

9. FUEL TANK & ENGINE

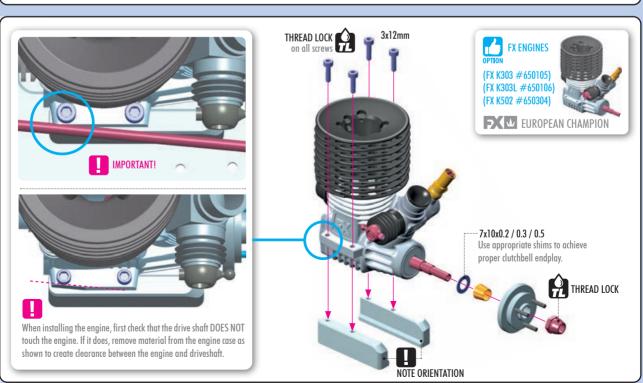


4x 902305 SH M3x5

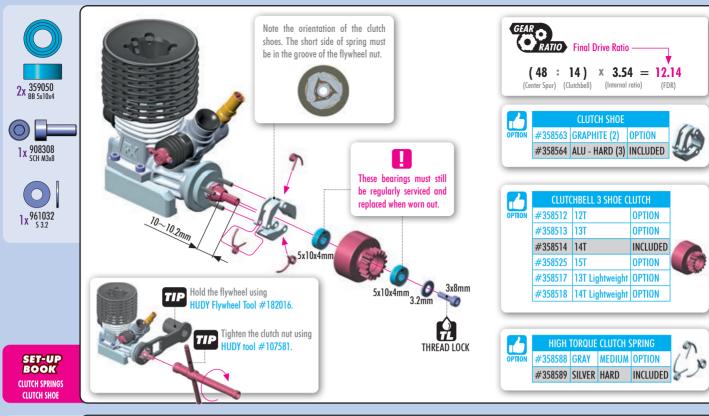
4x 961032

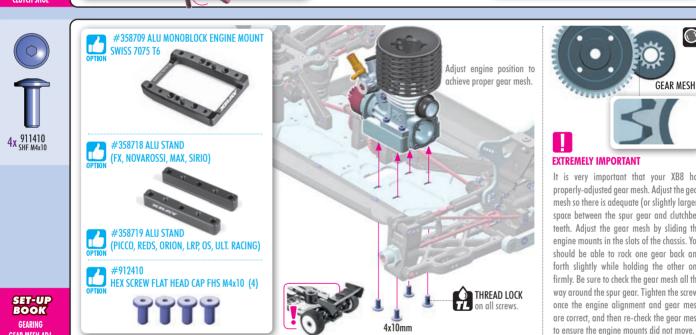






9. FUEL TANK & ENGINE



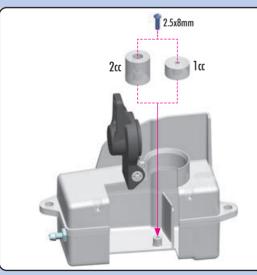




GEAR MESH

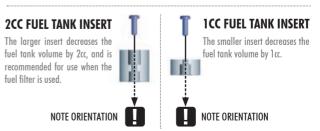


GEAR MESH ADJ



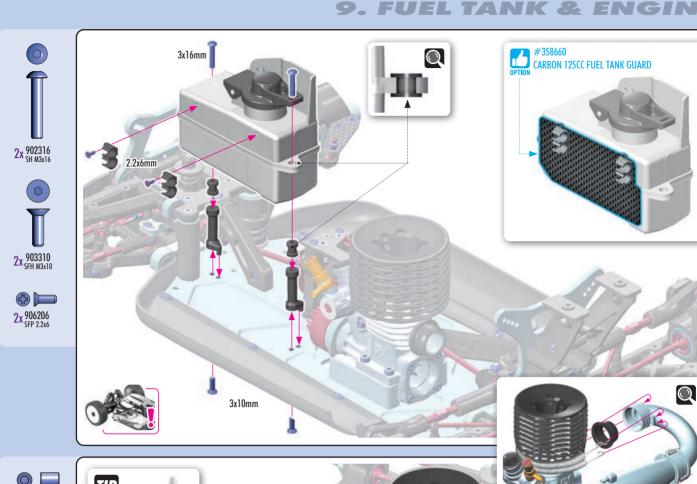
The fuel tank volume can be adjusted using the included inserts. The inserts reduce fuel capacity inside the tank to adjust for fuel filter and fuel line capacity and ensure a legal fuel volume for racina.

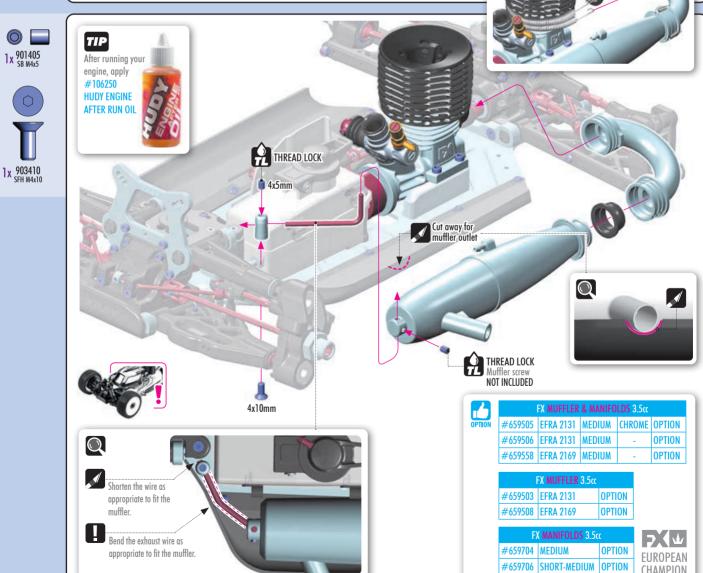
Tube holders are easily connected to the fuel tank by screws. Using screws is much more secure than using glue to attach the holders to the fuel tank.



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.

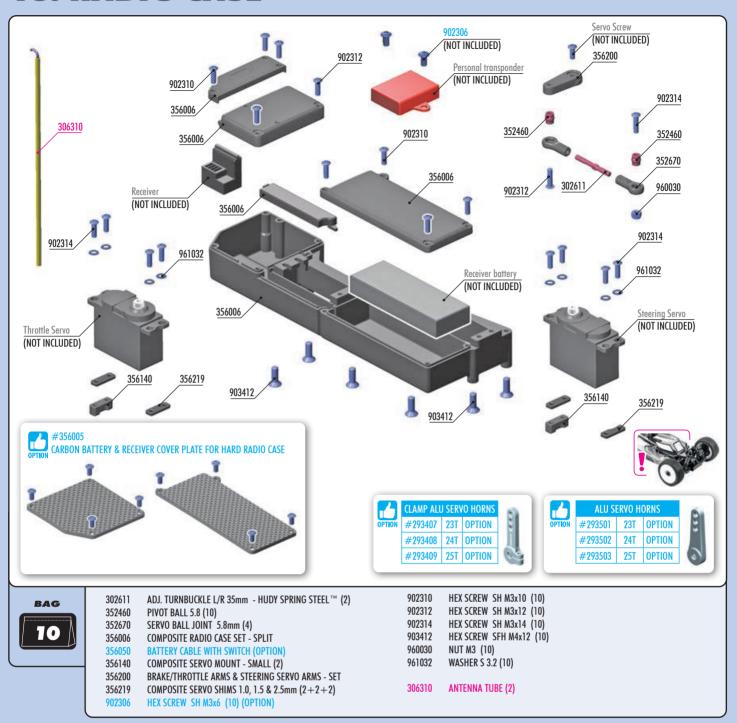
9. FUEL TANK & ENGINE



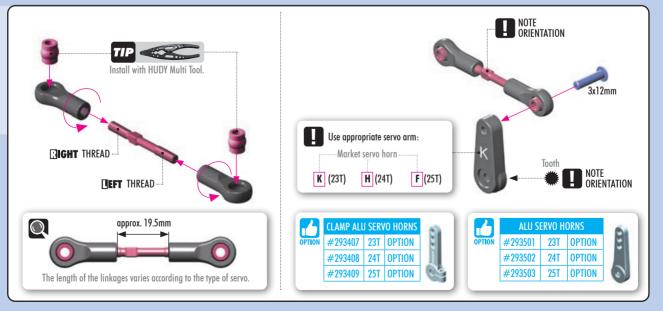


CHAMPION

10. RADIO CASE



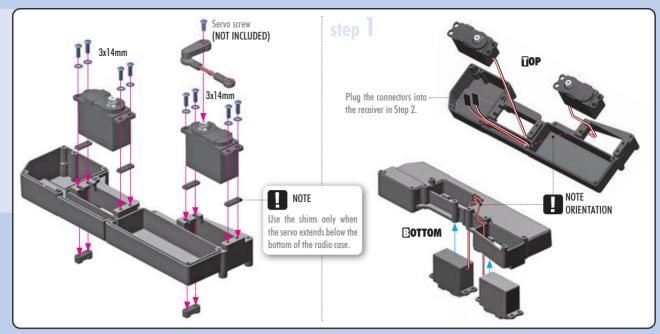




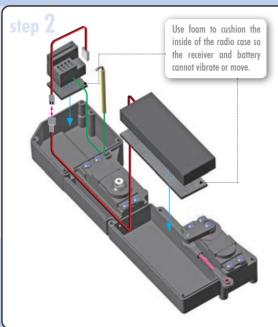
10. RADIO CASE

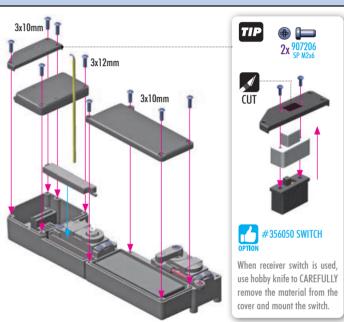


8x 961032

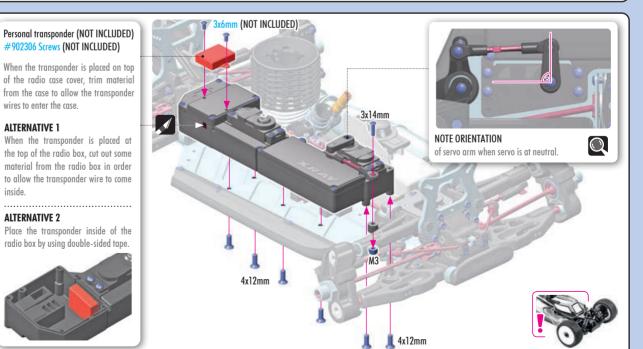




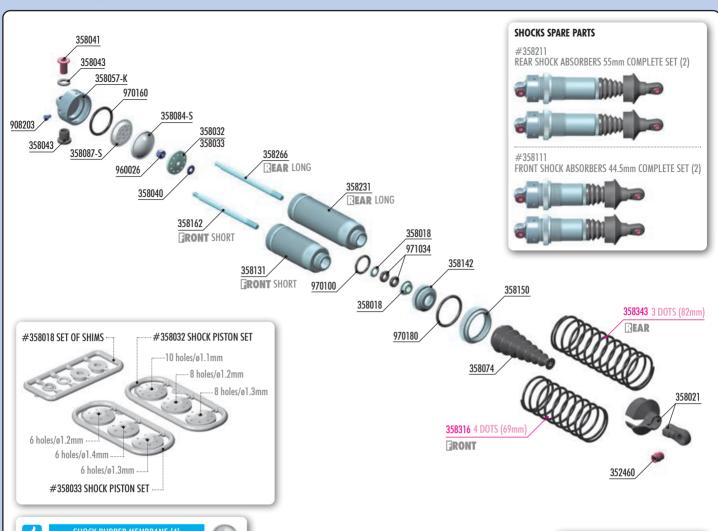








11. SHOCK ABSORBERS







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



7	SHOCK SPRINGS					
OPTION	#358315	C=0.77-0.80	3 DOTS	69mm	FRONT	OPTION
0	#358316	C = 0.80 - 0.83	4 DOTS	69mm	FRONT	INCLUDED
	#358317	C=0.83-0.86	5 DOTS	69mm	FRONT	OPTION
8	#358342	C=0.66-0.68	2 DOTS	82mm	REAR	OPTION
0	#358343	C=0.68-0.70	3 DOTS	82mm	REAR	INCLUDED
	#358344	C=0.70-0.73	4 DOTS	82mm	REAR	OPTION
8	#358334	C=0.66-0.68	2 DOTS	85mm	REAR	OPTION
	#358335	C=0.68-0.70	3 DOTS	85mm	REAR	OPTION



BA	GS





352460	PIVOT BALL 5.8 - V3 (10)
358018	COMPOSITE SET OF SHIMS FOR SHOCKS - V2 (2)
358021	COMPOSITE SHOCK PARTS WITH KEYED BALL JOINTS
358032	SHOCK PISTON SET 8-HOLE (1.2; 1.3) 10-H. (1.1mm) - DELRIN - V3
358033	COMPOSITE SHOCK 6-HOLE PISTON SET (1.2; 1.3; 1.4mm) - DELRIN - V3
358040	HARDENED SHOCK SHIMS (4)
358041	STEEL SHOCK BUSHING (2)
358043	COMPOSITE SHOCK BUSHING & SHIM (2+2)
358057-K	MULTI ADJ. 3-IN-1 ALU SHOCK CAP - SWISS 7075 T6 (2)
358074	FOLDING SHOCK BOOT (4)
358084-S	SHOCK RUBBER MEMBRANE BOTTOM RIBBED - SOFT (4)
250007 C	CHUCK DIIDDED MEMDDANE CELL COET (4)

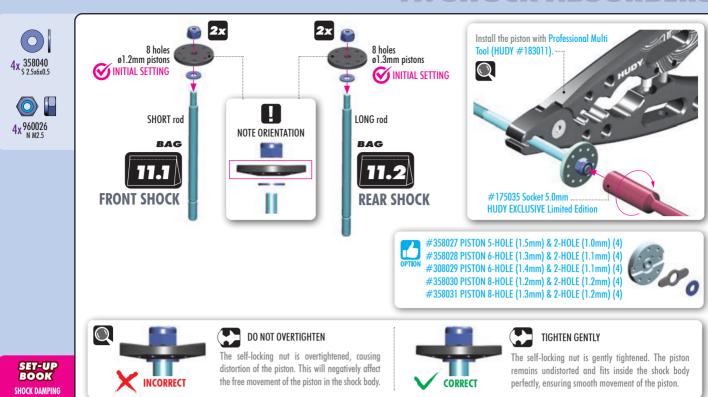
358057-K	MULTI ADJ. 3-IN-1 ALU SHOCK CAP - SWISS 7075 T6 (2)
358074	FOLDING SHOCK BOOT (4)
358084-S	SHOCK RUBBER MEMBRANE BOTTOM RIBBED - SOFT (4)
358087-S	SHOCK RUBBER MEMBRANE CELL - SOFT (4)
358131	ALU FRONT SHOCK BODY 44.5mm - SWISS 7075 T6 (2)
358142	ALU SHOCK BODY NUT FOR SHOCK BOOT (2)
358150	ALU SHOCK BODY ADJ. NUT (2)
358162	FRONT SHOCK SHAFT 56mm (2)
358231	ALU REAR SHOCK BODY 55mm - SWISS 7075 T6 (2)
358266	REAR SHOCK SHAFT 66.5mm (2)

908203 HEX SCREW SOCKET HEAD CAP M2x3 (10) 960026 NUT M2.5 - SHORT (10) 970100 O-RING 10 x 1.5 (10)

358316 XRAY FRONT SPRING 69mm - 4 DOTS (2) 358343 XRAY REAR SPRING 82mm - 3 DOTS (2)

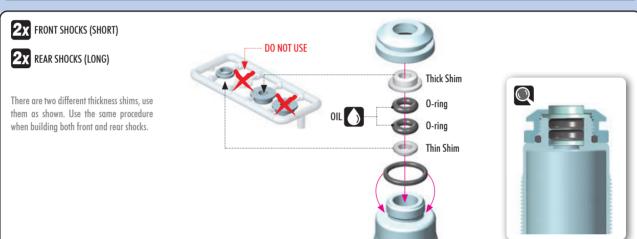
358111 FRONT SHOCK ABSORBERS 44.5mm — COMPLETE SET (2) 358211 REAR SHOCK ABSORBERS 55mm — COMPLETE SET (2)

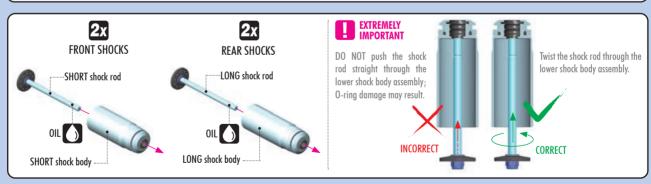
11. SHOCK ABSORBERS

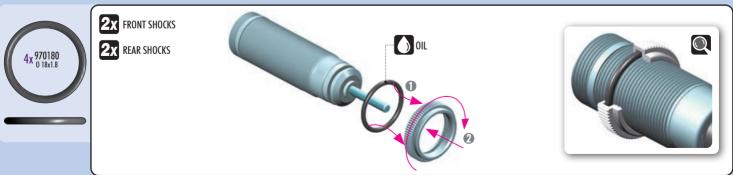




SHOCK PISTONS

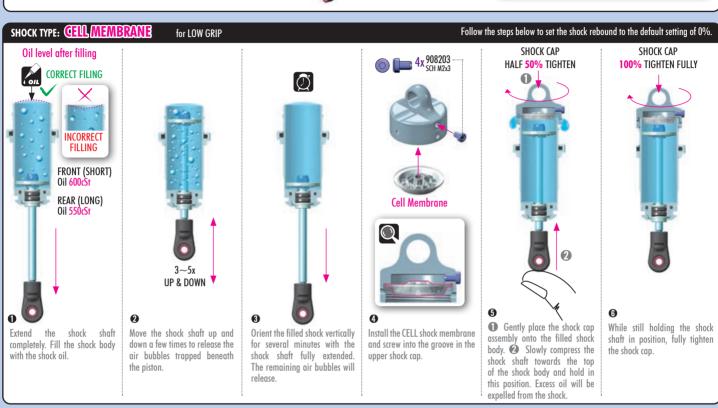


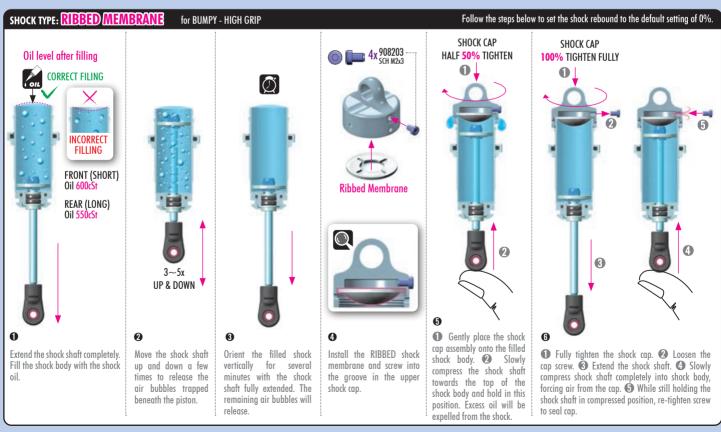


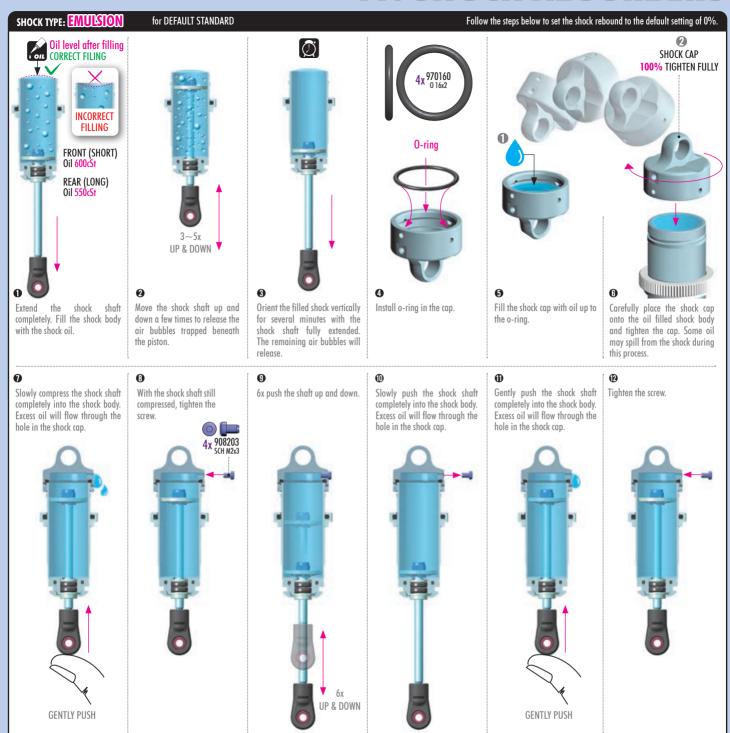


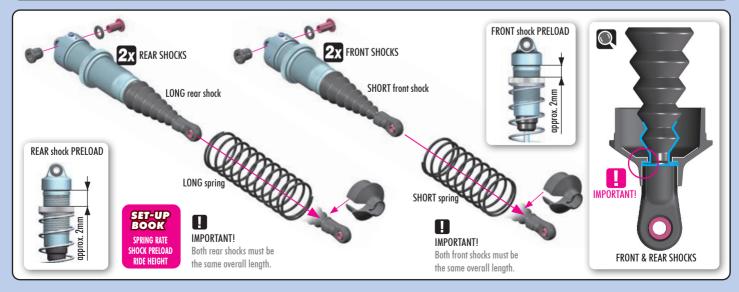
11. SHOCK ABSORBERS



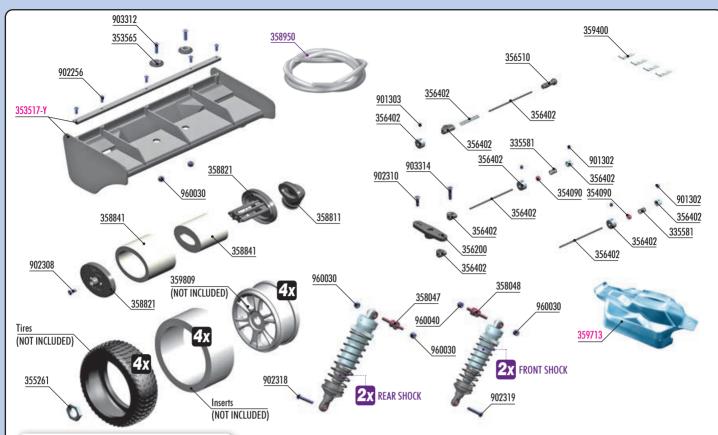








12. FINAL ASSEMBLY







A connecting brace between the throttle servo and the radio box compensates for the softer, more flexible radio box, as well as eliminating throttle servo vibrations to the chassis.

7 3		WINGS		1
OPTION	#353517-K	BLACK	OPTION	
	#353517	WHITE	OPTION	18
	#353517-Y	YELLOW	INCLUDED	
	#353512	LEXAN®	OPTION	1



OPTION

	HUDY REAR	WING SHI	W	
OPTION	#293561	SILVER	OPTION	á
	#293561-0	ORANGE	OPTION	é
	#293561-K	BLACK	OPTION	6
	#353561	SILVER	OPTION	(

#359714 "EAZY" LIGHTWEIGHT

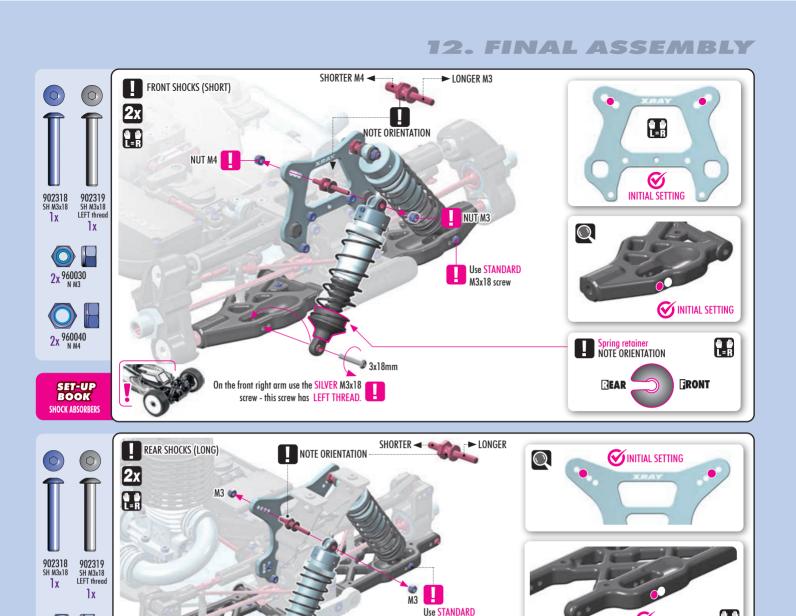


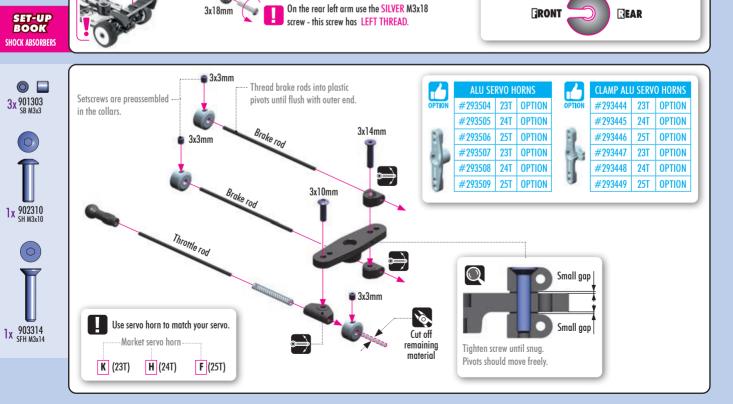


BAG	
12	

302630	ADI THENDHICKI E I /D 20mm HILDY CODING CTEEL TM /2\ /ODTION
	ADJ. TURNBUCKLE L/R 20mm - HUDY SPRING STEEL™ (2) (OPTION
302663	COMPOSITE BALL JOINT 4.9mm - OPEN - V2 (8) (OPTION)
303125	ALU SHIM 3x6x3.0mm (10) (OPTION)
335581	SPRING C=7.8 - MEDIUM - SILVER (2)
353565	COMPOSITE REAR WING SHIM - BLACK (2)
354090	BALL-SHAPED BRAKE SHIM (2)
355261	WHEEL NUT - RIBBED - HARD COATED (2)
	DDAVE/TUDOTTI F ADMC 0 CEDVO ADMC CET
356200	BRAKE/THROTTLE ARMS & SERVO ARMS - SET
356402	XB8 BRAKE/THROTTLE SYSTEM - SET - V2
356510	CLOSED BALL JOINT 3.9 (4)
358047	STEEL M3/M3 UPPER SHOCK MOUNT STAND OFF WITH HEX (2)
358048	STEEL M4/M3 UPPER SHOCK MOUNT STAND OFF WITH HEX (2)
358811	AIR FILTER ELBOW - LOW PROFILE
358821	AIR FILTER BODY & CAP - LOW PROFILE
358841	AIR FILTER FOAM & OIL - LOW PROFILE
358950	SILICONE TUBING 1m (2.4 x 5.5mm)
359400	BODY CLIP (10)
362280	ALU CONICÁL SHIM 3x6x2.0mm (10) (OPTION)
362651	BALL END 4.9mm WITH THREAD`8mm (2) (OPTION)
362652	BALL END 4.9mm WITH THREAD 10mm (2) (OPTION)
	2.122 2.13 1 1 1011111 (2) (01 11011)

901302 901303 902256 902308 902310 902318 902319 903312 903314 960030 960040	HEX SCREW SB M3x2.5 (10) HEX SCREW SB M3x3 (10) HEX SCREW SH M2.5x6 (10) HEX SCREW SH M3x8 (10) HEX SCREW SH M3x10 (10) HEX SCREW SH M3x10 (10) HEX SCREW SH M3x18 - LEFT THREAD (10) HEX SCREW SH M3x12 (10) HEX SCREW SFH M3x12 (10) HEX SCREW SFH M3x14 (10) NUT M3 (10) NUT M4 (10)
358111 358211	FRONT SHOCK ABSORBERS 44.5mm — COMPLETE SET (2) REAR SHOCK ABSORBERS 55mm — COMPLETE SET (2)
353517-Y 359713	WICKERBILL REAR WING - YELLOW XRAY XB8 / XB8E "EAZY" BODY





M3x18 screw

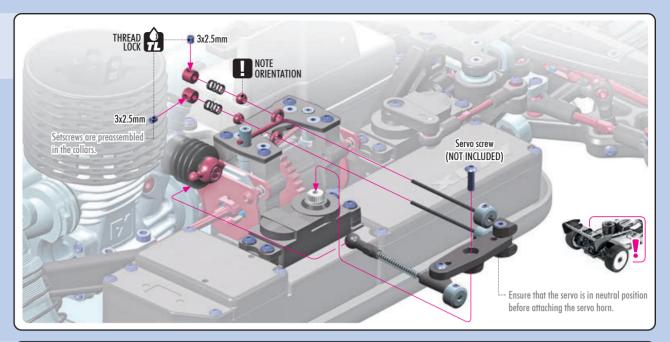
1 5 5 225

4x 960030 N M3 L=R

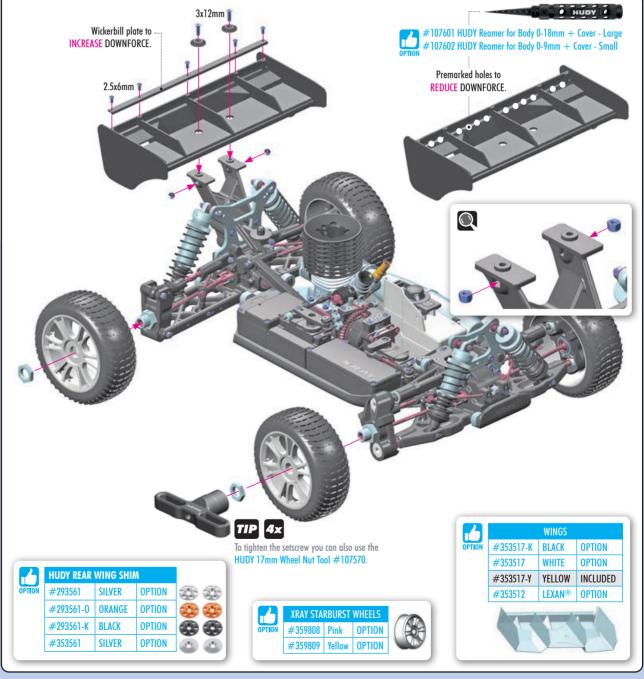
Spring retainer
NOTE ORIENTATION

12. FINAL ASSEMBLY









12. FINAL ASSEMBLY





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

SILICONE TUBE MARKED AS

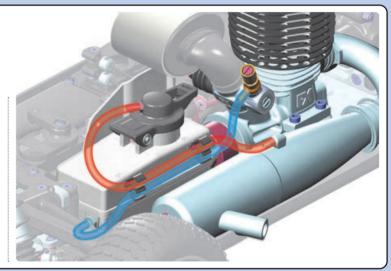
BLUE = FROM FUEL TANK TO CARBURETOR

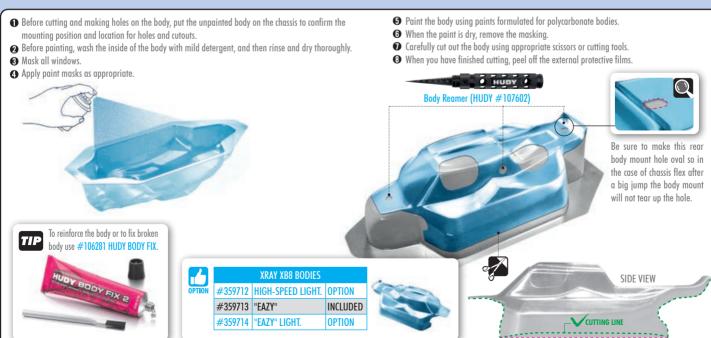
SILICONE TUBE MARKED AS
RED = FROM MUFFLER TO FUEL TANK (TOP)



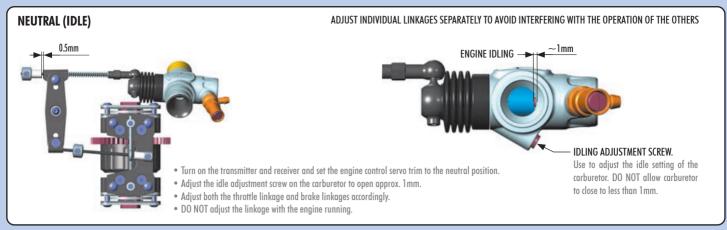
Keep fuel line away from clutchbell and flywheel.

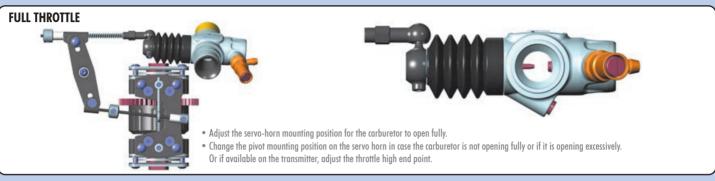


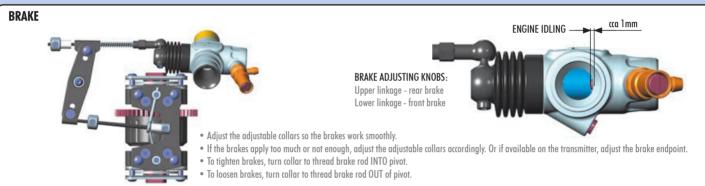




THROTTLE LINKAGE ADJUSTMENT

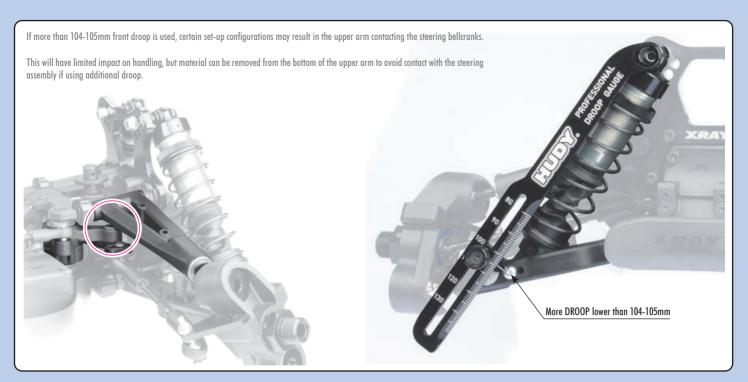




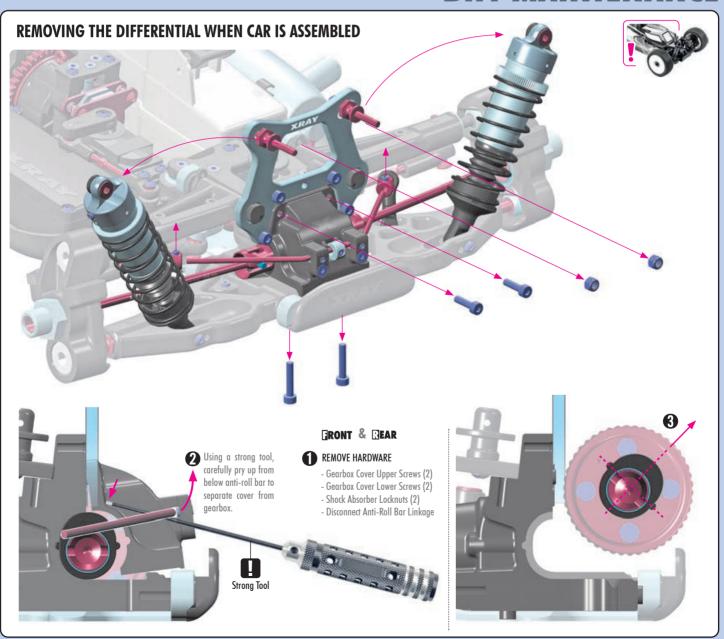


TROUBLESHOOTING GUIDE

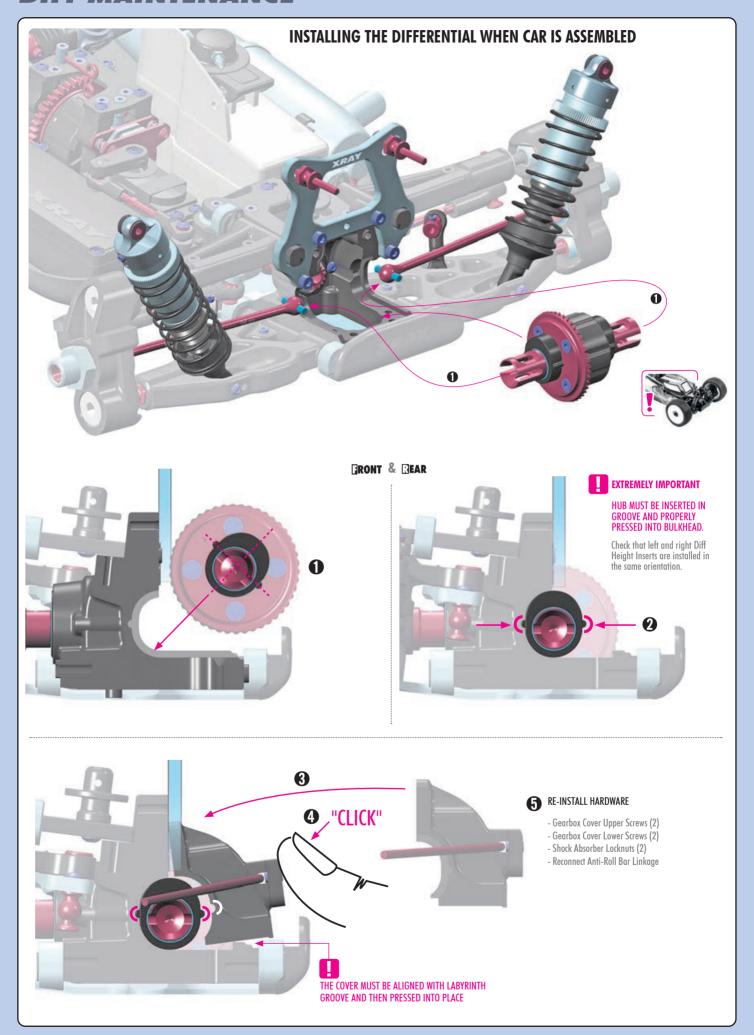
PROBLEM	CAUSE	SOLUTION
ENGINE DOES NOT START	Fuel tank is empty or carburetor is not primed Bad glowplug or dead glowdriver battery Fuel lines, fuel filter, air cleaner, or muffler is clogged Engine is flooded due to over-priming Carburetor is not adjusted properly Throttle servo linkage not adjusted 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 to make sure the wheel nuts are properly tightened Check the steering servo for damage and wear, and replace/repair if necessary



DIFF MAINTENANCE



DIFF 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 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

STARTING AND RUNNING THE ENGINE

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

- 1. Make sure the transmitter and receiver batteries are fully charged.
- 2. Make sure that your transmitter and receiver are both on the same frequency. If you have a transmitter with multiple model memory, make sure you have selected the proper profile for your car.
- Put the car on the starter box and keep the tires from touching the ground.
- 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.
- 7. 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 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
- 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 hody scissors work the hest
- Regularly inspect the amount of dirt on the felt protector in the shocks (if present) and regularly renlace 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.

- 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 without any abnormal vibrations or sounds.
- 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.

HIIDY #106213





HUDY #106221





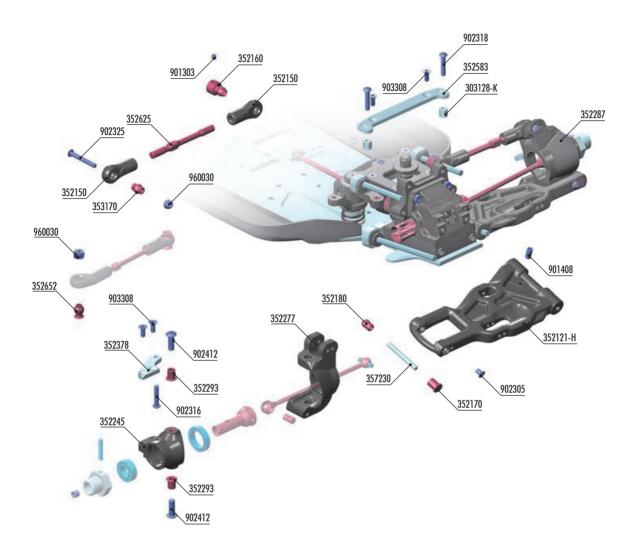
HUDY #106230

FRONT C-HUB SUSPENSION



#350910 FRONT C-HUB SUSPENSION - SET

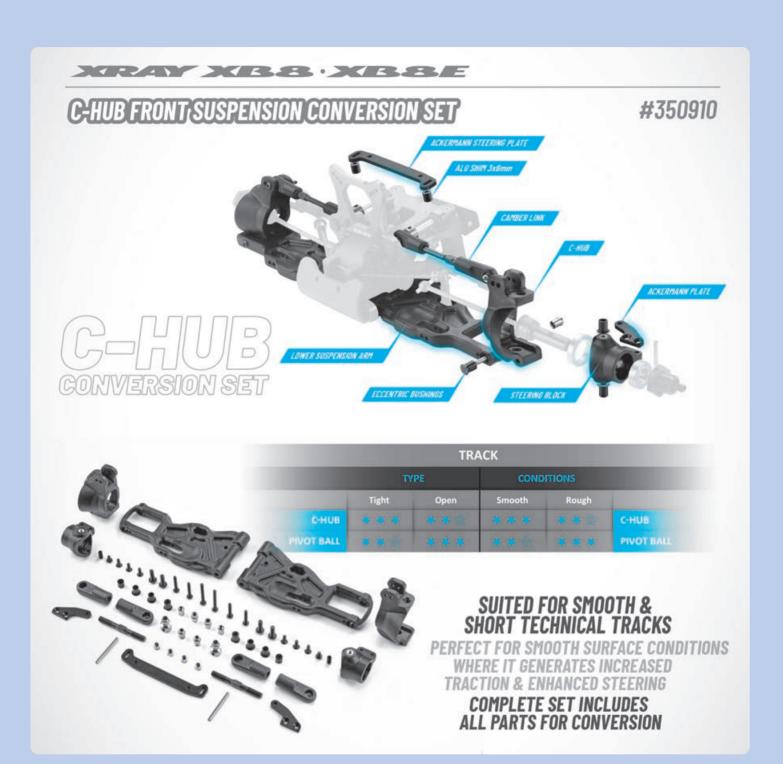
For instructions on how to mount the optional #350910 C-hub suspension conversion set, please download the instructions from the Downloads section at www.teamxray.com/XB8







303128-K ALU SHIM 3x6x6mm (10) 352121-H COMPOSITE FRONT LOWER SUSPENSION ARM - HARD 352150 FRONT UPPER ARM BALL JOINT (2) 352160 STEEL MOUNTING BALL 6.8mm (2) 352170 STEEL ECCENTRIC BUSHING 0° (2) 352180 BALL MOUNT (2) 352245 STEERING BLOCK 352277 COMPOSITE CASTER BLOCK 16° RIGHT 352287 COMPOSITE CASTER BLOCK 16° LEFT 352293 STEEL BUSHING FOR CASTER BLOCK (2)	352583 352625 352652 353170 357230 901303 901408	ALU STEERING PLATE - SWISS 7075 T6 (L+R) ALU STEERING PLATE - SWISS 7075 T6 ADJ. TURNBUCKLE M5 L/R 46mm (2) BALL STUD 6.8mm (4) PIVOT BALL 6.8 (4) FRONT LOWER OUTER PIVOT PIN (2) HEX SCREW SB M3x3 (10) HEX SCREW SB M4x8 (10) HEX SCREW SH M3x5 (10)	902318 902325 902412 903308	HEX SCREW SH M3x16 (10) HEX SCREW SH M3x18 (10) HEX SCREW SH M3x25 (10) HEX SCREW SH M4x12 (10) HEX SCREW SFH M3x8 (10) NUT M3 (10)
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TIP

All ball-bearings are factory pre-oiled or pre-greased. The bearings are all packaged in BAG 00.9.

For pre-oiled ball-bearings, use:

#106230 HUDY Bearing Oil.

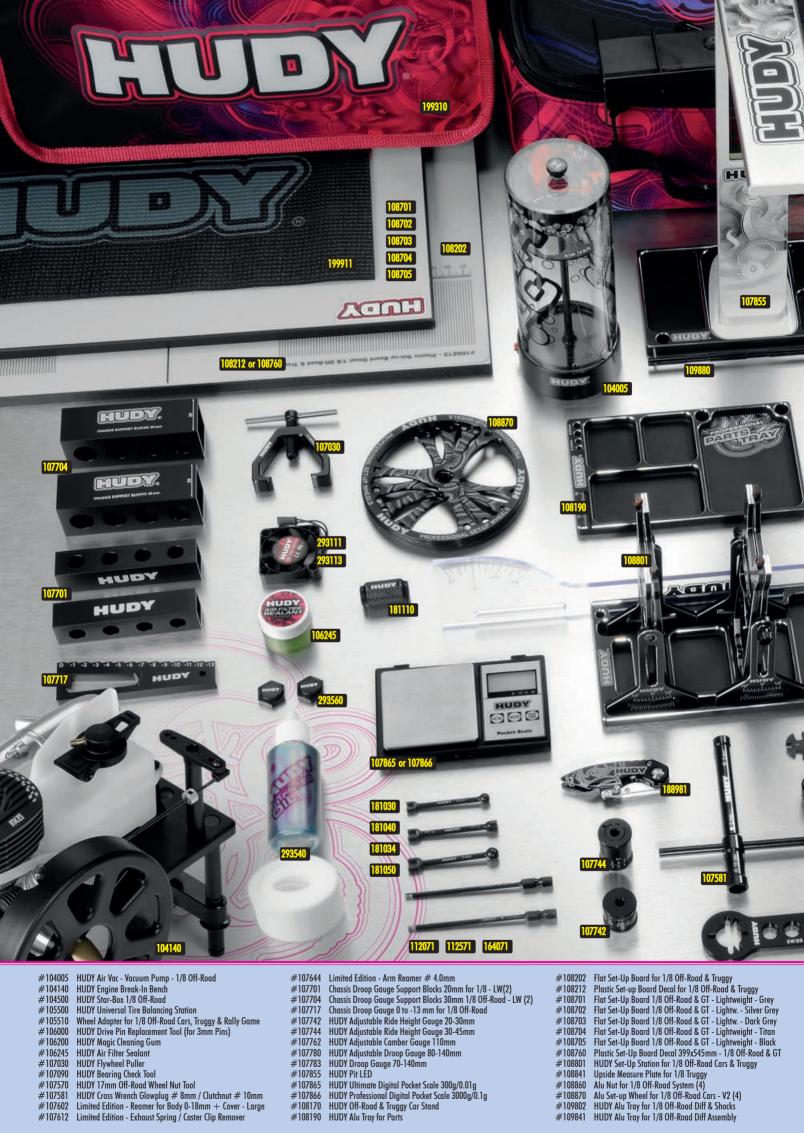
For pre-greased ball-bearings, use one of these bearing greases:

#106220 - HUDY Bearing Grease - suggested for extremely dusty track conditions.
#106221 - HUDY Bearing Grease "Blue" - suggested for medium dusty track conditions.

#106222 - HUDY Bearing Grease "Red" - suggested for low dusty track conditions.

Replace any bearings that develop a "gritty" feeling to prevent inefficiency and avoid failures.

Make sure to use only original XRAY ball-bearings, which all have specific tolerances, axial and radial play, and are all individually selected. Using 3rd party ball-bearings may result in bearing failures and damage to other parts.



#105510

#106000 HUDY Drive Pin Replacement Tool (for 3mm Pins)

HUDY Magic Cleaning Gum HUDY Air Filter Sealant #106200

#106245 #107030

HUDY Flywheel Puller HUDY Bearing Check Tool #107090

#107570 HUDY 17mm Off-Road Wheel Nut Tool

#107581 HUDY Cross Wrench Glowplug # 8mm / Clutchnut # 10mm #107602 Limited Edition - Reamer for Body 0-18mm + Cover - Large #107612 Limited Edition - Exhaust Spring / Caster Clip Remover

#107742

#107744

#107762

#107780

#107783

#107855

#107865 HUDY Ultimate Digital Pocket Scale 300g/0.01g #107866 HUDY Professional Digital Pocket Scale 3000g/0.1g #108170 HUDY Off-Road & Truggy Car Stand HUDY Alu Tray for Parts



#109880 #111545 #112045 HUDY Alu Tray for Accessories & Pit LED Limited Edition - Allen Wrench # 1.5mm Limited Edition - Allen Wrench # 2.0mm Limited Edition - Allen Wrench # 2.Umm
Power Tool Tip Allen 2.0 x 90 mm
Limited Edition - Allen Wrench # 2.5mm
Power Tool Tip Allen 2.5 x 90 mm
Limited Edition - Allen Wrench # 3.0mm
Limited Edition - Allen Wrench + Ball Repl. Tip # 2.0mm
Limited Edition - Allen Wrench + Ball Repl. Tip # 2.5mm #112071 #112545 #112571 #113045 #132045

#132545 #154065 Limited Edition - Sl. Screwdriver for Engine #4.0mm - Long Limited Edition - Phillips Screwdriver # 4.0mm Power Tool Tip Phillips 4.0 x 90 mm Limited Edition - Socket Driver # 5.5mm

HUDY Spring Steel Turnbuckle Wrench 3 & 4mm HUDY Spring Steel Turnbuckle Wrench 4 mm HUDY Spring Steel Turnbuckle Wrench 5 mm HUDY Special Tool For Turnbuckles & Nuts HUDY Ball Joint Wrench #181040 #181050 #181090 #181110 HUDY Wheel Nut & 3/4 Shoe Flywheel MultiTool 1/8 Buggy

#182016

HUDY Professional Multi Tool HUDY Pocket Hobby Knife HUDY Professional Body Scissors #183011 #188981 #188990 #199060 **HUDY Alu Tool Stand** #199184 HUDY Car Bag - 1/8 & 1/10 Off-Road #199270 HUDY LiPo Safety Bag #199310 HUDY Pit Bag - Compact

HUDY Brushless RC Fan 40mm with Internal Soldering Tabs Air Filter Foam & Oil (10) - XRAY XB8 Low Profile Style HUDY Alu Wheel Nut with Cover - Ribbed (2) #293540 #293560

For more information about tools, set-up equipment and accessories suitable for your car please visit:



www.feamxray.com

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