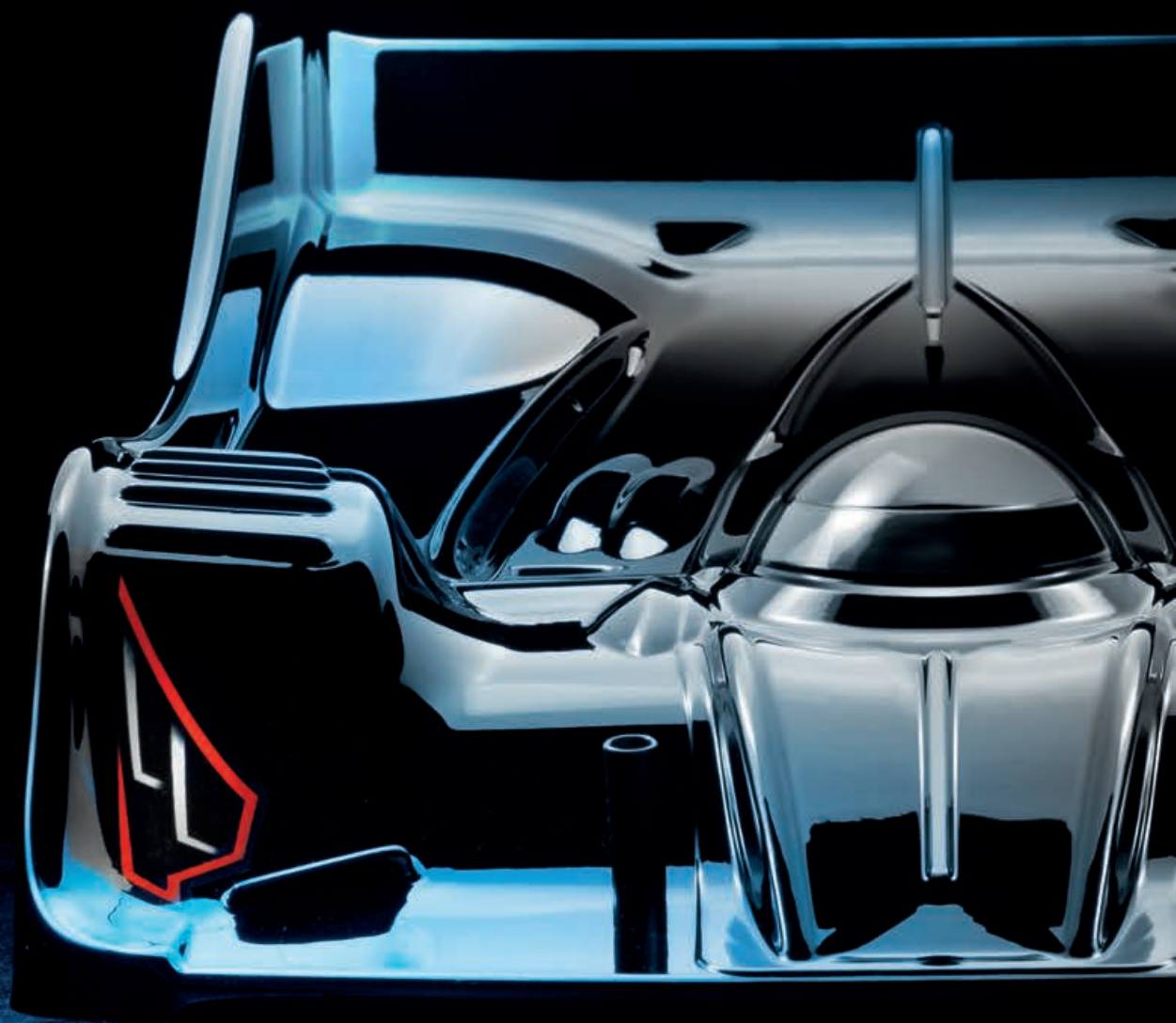


1/8 ON-ROAD CAR

XRAY RX8E



INSTRUCTION MANUAL
FOR RX8E'26

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.

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

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.

XRAY Europe

K Vystavisku 6992
91101 Trenčín
Slovakia, EUROPE
Phone: 421-32-7401100
Fax: 421-32-7401109
E-mail: info@teamxray.com

XRAY USA

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

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

SAFETY PRECAUTIONS

Contains:

LEAD (CAS 7439-92-1) ANTIMONY (CAS 7440-36-0)

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

Contains lead, a listed carcinogen. Lead is harmful if ingested. Wash thoroughly after using. DO NOT use product while eating, drinking or using tobacco products. May cause chronic effects to gastrointestinal tract, CNS, kidneys, and blood. MAY CAUSE BIRTH DEFECTS.

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

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

only genuine and original authentic XRAY parts for maximum performance. Using any third party parts on this model will void guaranty immediately.

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



IMPORTANT NOTES – GENERAL

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

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



IMPORTANT NOTES – 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 RC 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.

R/C & BUILDING TIPS

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

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

WARRANTY

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

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

on any component sent to XRAY or its distributors for warranty. XRAY reserves the right to make the final determination of the warranty status of any component or part.

Limitations of Liability

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

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

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

All rights reserved.

QUALITY CERTIFICATE

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

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

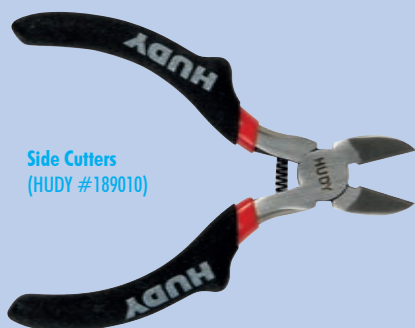
We wish you enjoyment of this high-quality and high-performance RC car and wish you best success on the track!

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.

RX8E'26

TOOLS REQUIRED



Side Cutters
(HUDY #189010)



Pocket Hobby Knife (HUDY #188981)



Cross Wrench 5mm (HUDY #107581)



HUDY Ball Joint Wrench
(HUDY #181110)



Clutch Spring Tool (HUDY #182005)



Turnbuckle Wrench 3mm
(HUDY #181030)



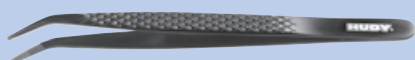
Turnbuckle Wrench 3mm
(HUDY #181031)



Special Tool for turnbuckles, nuts (HUDY #181090)



HUDY Professional Tweezers Straight (HUDY #188970)



HUDY Professional Tweezers Curved (HUDY #188971)



Scissors (HUDY #188990)



Allen 1.5mm (#111545 - HUDY EXCLUSIVE Limited Edition)



Allen 2.0mm (#112045 - HUDY EXCLUSIVE Limited Edition)



Ball Allen Wrench 2.0mm (#132045 - HUDY EXCLUSIVE Limited Edition)



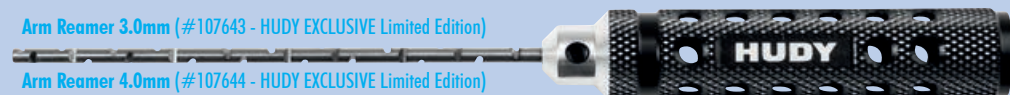
Allen Wrench 2.5mm (#112545 - HUDY EXCLUSIVE Limited Edition)



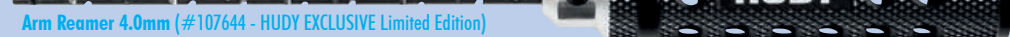
Ball Allen Wrench 2.5mm (#132545 - HUDY EXCLUSIVE Limited Edition)



Allen 3.0mm (#113045 - HUDY EXCLUSIVE Limited Edition)



Arm Reamer 3.0mm (#107643 - HUDY EXCLUSIVE Limited Edition)



Arm Reamer 4.0mm (#107644 - HUDY EXCLUSIVE Limited Edition)



Socket 5.5mm (#175535 - HUDY EXCLUSIVE Limited Edition)



Camber Tool (#107615)



Caster Clip Remover (#107612 - HUDY EXCLUSIVE Limited Edition)



Blade Hobby Knife with Alu Handle (HUDY #188980)



Reamer (#107602 - HUDY EXCLUSIVE Limited Edition)



Professional Multi Tool
(HUDY #183011)

EQUIPMENT INCLUDED



600cSt (#106360)
HUDY Premium Silicone Oils



(HUDY #106210)
Premium Graphite Grease



SYMBOLS USED

Apply threadlock	Ensure smooth non-binding movement	Detail	Assembled in the specified order	Part bags used
Apply oil	Cut off remaining material	Pay attention here	Assembled view	Assembled left and right sides the same way
Apply grease	Assembled as many times as specified	Follow tip here	Optional parts	Assembled with pliers

COLOR INDICATIONS

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:

341135

341134

345001

346132

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

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

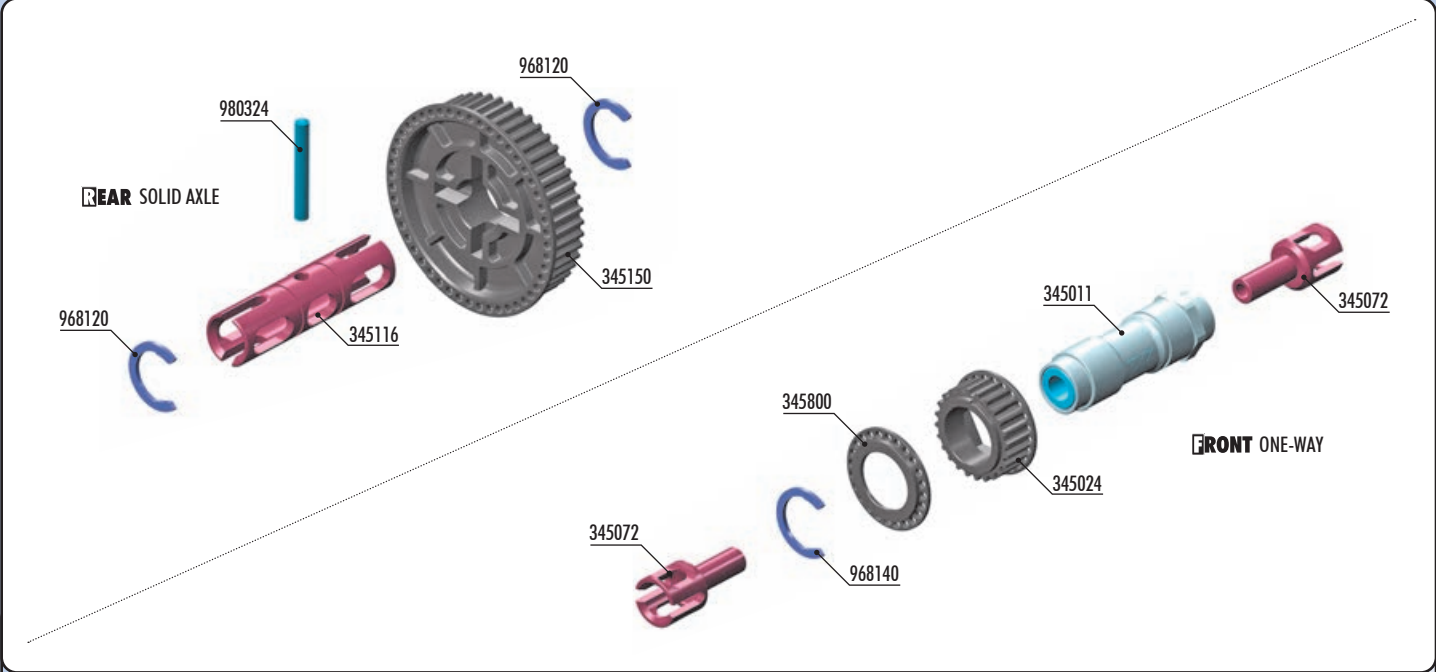
STYLE C - indicates parts that are already assembled from previous steps.

STYLE D - indicates parts that are optional.

EQUIPMENT REQUIRED

Transmitter & Receiver 	Speed Controller 	Steering Servo 	Battery Charger 	LiPo Battery Pack
Electric Motor 	Pinion Gear (HUDY #294213~25) 	Wheels & Tires 	Tire Truer (HUDY #102003) 	Lexan™ Paint
1/8 On-road Body 	Double-sided Tape (HUDY #107875) 	Threadlock 	Bearing Oil (HUDY #106230) 	One-Way Bearing Oil (HUDY #106231)
Snap Ring Pliers 	Set-up Station (HUDY #108001) 	Support Blocks 10mm (HUDY #107702) 	Ride Height Gauge 2~15mm (HUDY #107713) 	Set-Up Board Lightweight (HUDY #108501)

1. FRONT ONE-WAY & REAR SOLID AXLE

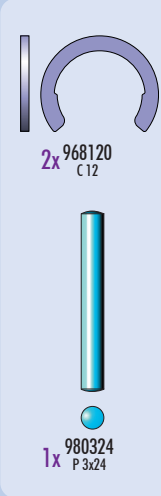


BAG
01

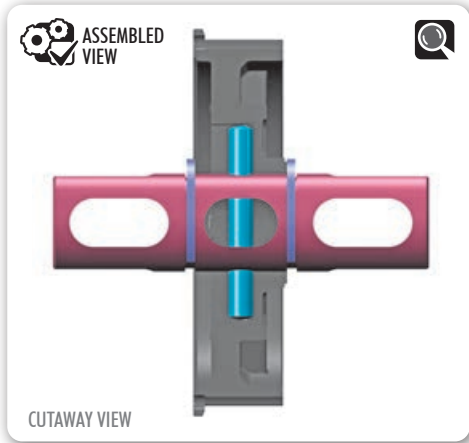
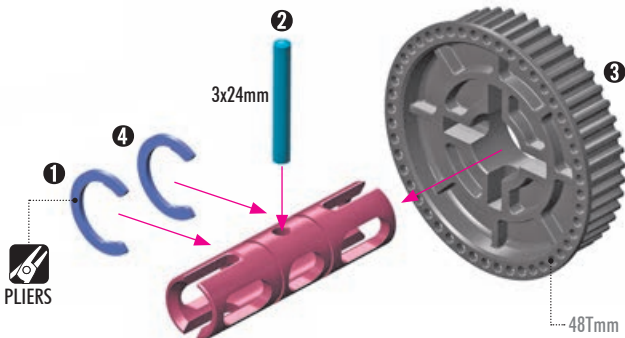
- 345001 FRONT ONE-WAY - HARDCOATED + LIGHTWEIGHT ADAPTERS
- 345011 FRONT ONE-WAY AXLE - BLACK COATED
- 345024 COMPOSITE FRONT ONE-WAY AXLE PULLEY 24T
- 345072 FRONT ONE-WAY AXLE OUTDRIVE ADAPTER - LIGHTWEIGHT - HUDY SPRING STEEL™ (2)
- 345116 REAR SOLID AXLE SHAFT - LIGHTWEIGHT - HUDY SPRING STEEL™
- 345150 COMPOSITE REAR SOLID AXLE PULLEY 48T
- 345800 COMPOSITE BELT PULLEY COVER SET

- 968120 C-CLIP 12 (10)
- 968140 C-CLIP 14 (10)
- 980324 PIN 3x24 (10)

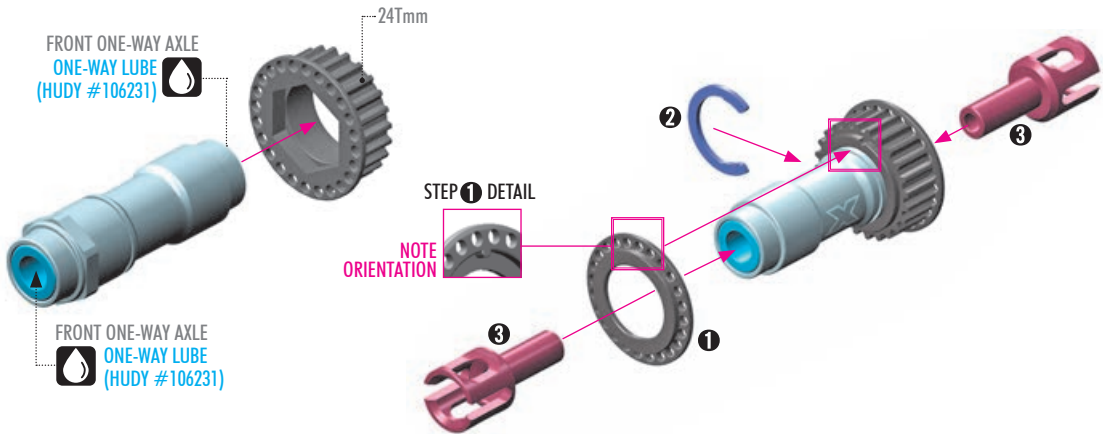
Numbers in parentheses () refer to quantities when purchased separately.



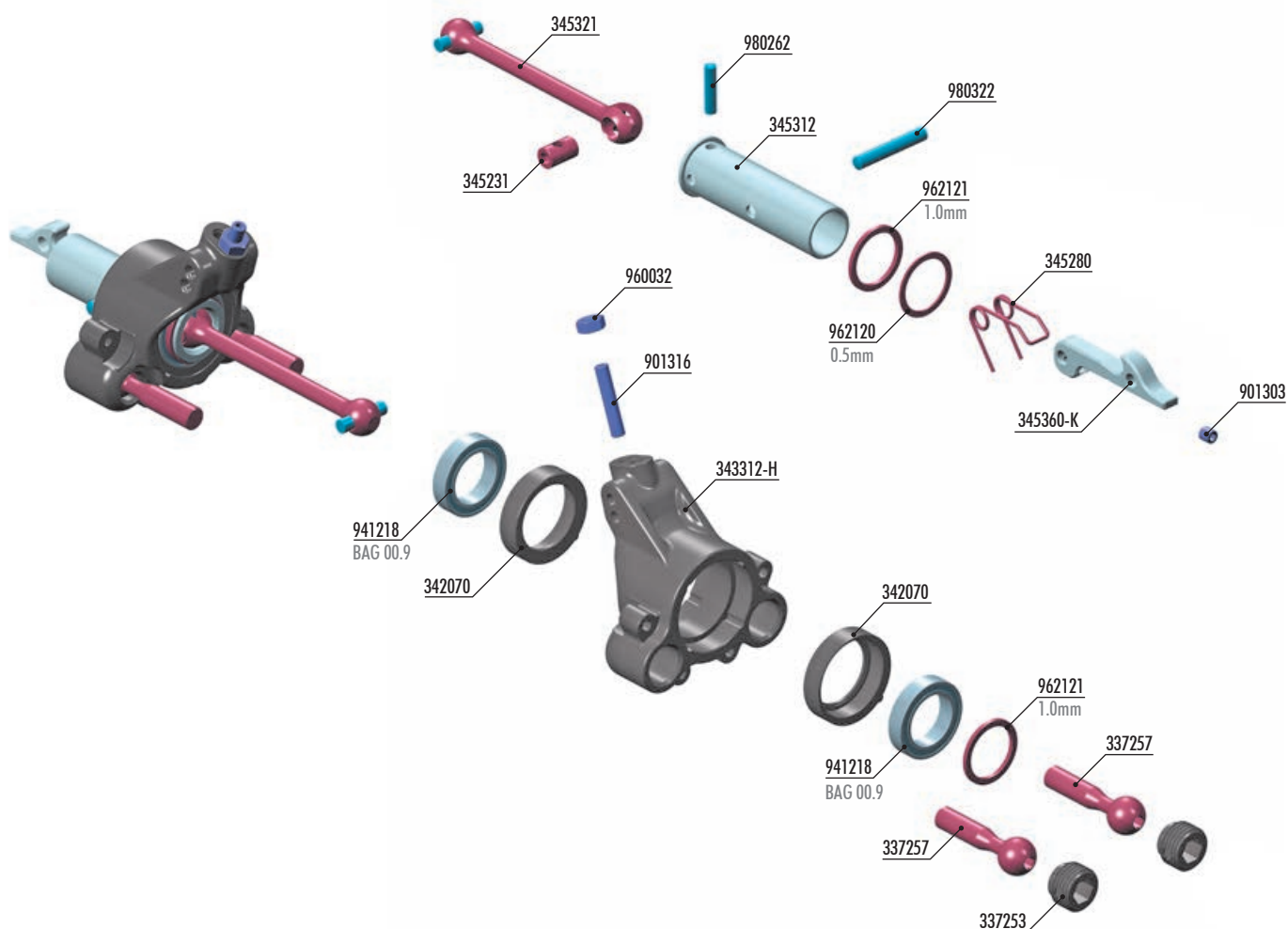
REAR SOLID AXLE



FRONT ONE-WAY AXLE



2. REAR SUSPENSION



#980322-T
TITAN PIN 3x22 (2)



#345290
ALU SHIM 12x15x1.0mm (4)



#345291
ALU SHIM 12 x 15 x 1.5mm (4)



REAR UPRIGHTS

#	MATERIAL	STATUS
#343312-H	HARD	INCLUDED
#343312-G	GRAPHITE	OPTION



#345370
CARBON REAR AERO DISC
1.6mm - SET



#345310
REAR WHEEL AXLE -
HUDY SPRING STEEL™



ADJUSTING NUT

#	MATERIAL	STATUS
#337253	COMPOSITE	INCLUDED
#337252	ALU	OPTION



*The alu nut must be used together with
#337254 – Composite Ball Cup 8.4mm.

BAG

02

337253 COMPOSITE ADJUSTING NUT M10x1 (4)
337257 STEEL PIVOT BALL 8.4mm (2)
342070 COMPOSITE SET OF BUSHINGS (2)
343312-H COMPOSITE UPRIGHT REAR FOR AERO DISC - MODIFIED - HARD
345231 DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
345280 WHEEL SPRING (2)
345312 ALU REAR CVD DRIVE AXLE - SWISS 7075 T6 - HARD COATED
345321 REAR CVD DRIVE SHAFT 61mm - HUDY SPRING STEEL™
345360-K ALU REAR WHEEL LOCK - SWISS 7075 T6 - BLACK (2)

901303 HEX SCREW SB M3x3 (10)
901316 HEX SCREW SB M3x16 (10)
941218 BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2)
960032 NUT M3 - BLACK (10)
962120 WASHER S 12x15x0.5 (10)
962121 WASHER S 12x15x1.0 (10)
980262 PIN 2.5x12 (10)
980322 PIN 3x22 (10)

2. REAR SUSPENSION

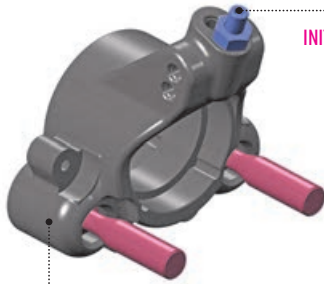


2x 960032
N M3



2x 901316
SB M3x16

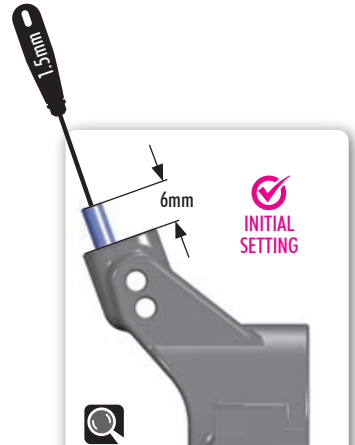
2x L-R



ASSEMBLED VIEW

INNER POSITION
INITIAL SETTING

M3
3x16mm



INITIAL SETTING



#345370
CARBON REAR AERO
DISC 1.6mm - SET



ADJUSTING NUT

#337253	COMPOSITE	INCLUDED
#337252	ALU	OPTION



*The alu nut must be used together with
#337254 - Composite Ball Cup 8.4mm.



REAR UPRIGHTS

#343312-H	HARD	INCLUDED
#343312-G	GRAPHITE	OPTION

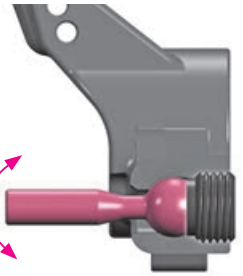


Tighten composite hex nuts using
HUDY tool #107581. **TIP**



PIVOT BALLS MUST MOVE FREELY

During initial assembly, tighten each
composite hex nut until the pivot ball
starts to bind, then loosen slightly. Verify
that the pivot balls move freely.

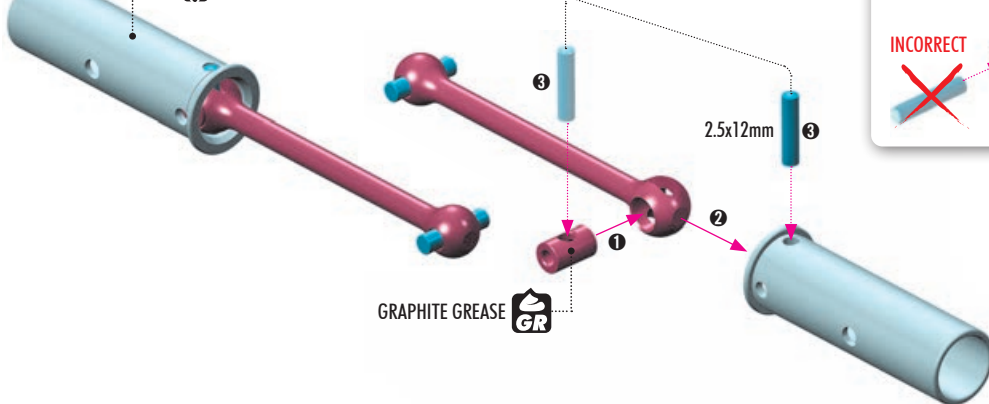


2x 980262
P 2.5x12

2x L-R

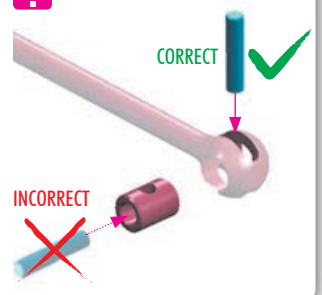
1 2 3 SPECIFIC ORDER STEPS

ASSEMBLED VIEW



GRAPHITE GREASE

EXTREMELY IMPORTANT



CORRECT

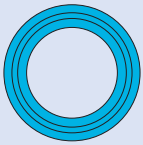
INCORRECT



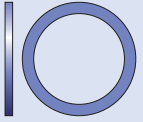
#345310
REAR WHEEL AXLE -
HUDY SPRING STEEL™



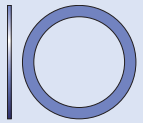
2. REAR SUSPENSION



4x 941218
BB 12x18x4

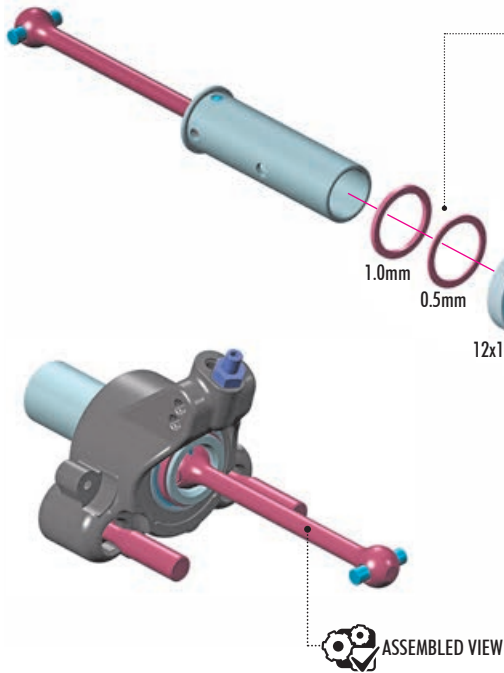


2x 962120
S 12x15x0.5



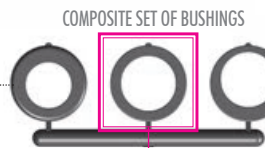
4x 962121
S 12x15x1.0

2x L=R



TIP Please refer to page 47 for information on the service & maintenance of ball-bearings.

SHIMS	
IN	OUT
1+1	0.5
1+0.5	INITIAL SETTING
1	1+0.5
0.5	1+1
0	1+1+0.5



COMPOSITE SET OF BUSHINGS

INITIAL SETTING
CONCENTRIC

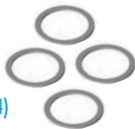
! ECCENTRIC

NOTE ORIENTATION

When using eccentric bushings, both bushings must be in same position.

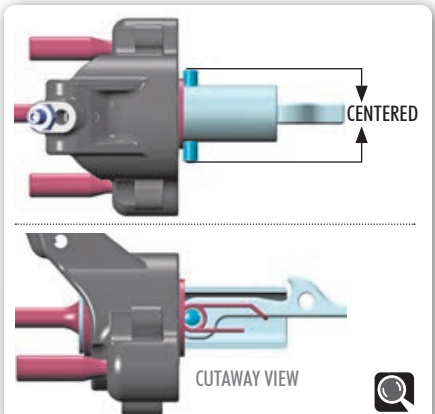
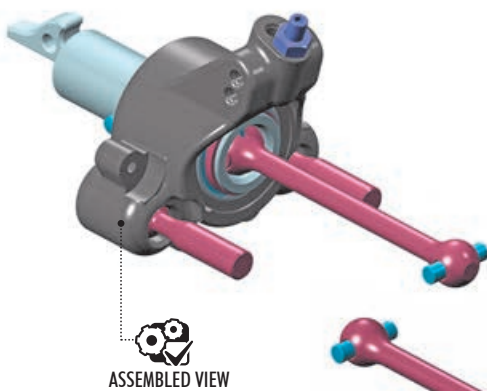
#345290
ALU SHIM 12x15x1.0mm (4)
OPTION

#345291
ALU SHIM 12 x 15 x 1.5mm (4)
OPTION



2x L=R

SPECIFIC ORDER STEPS



④ 3x22mm

③

②

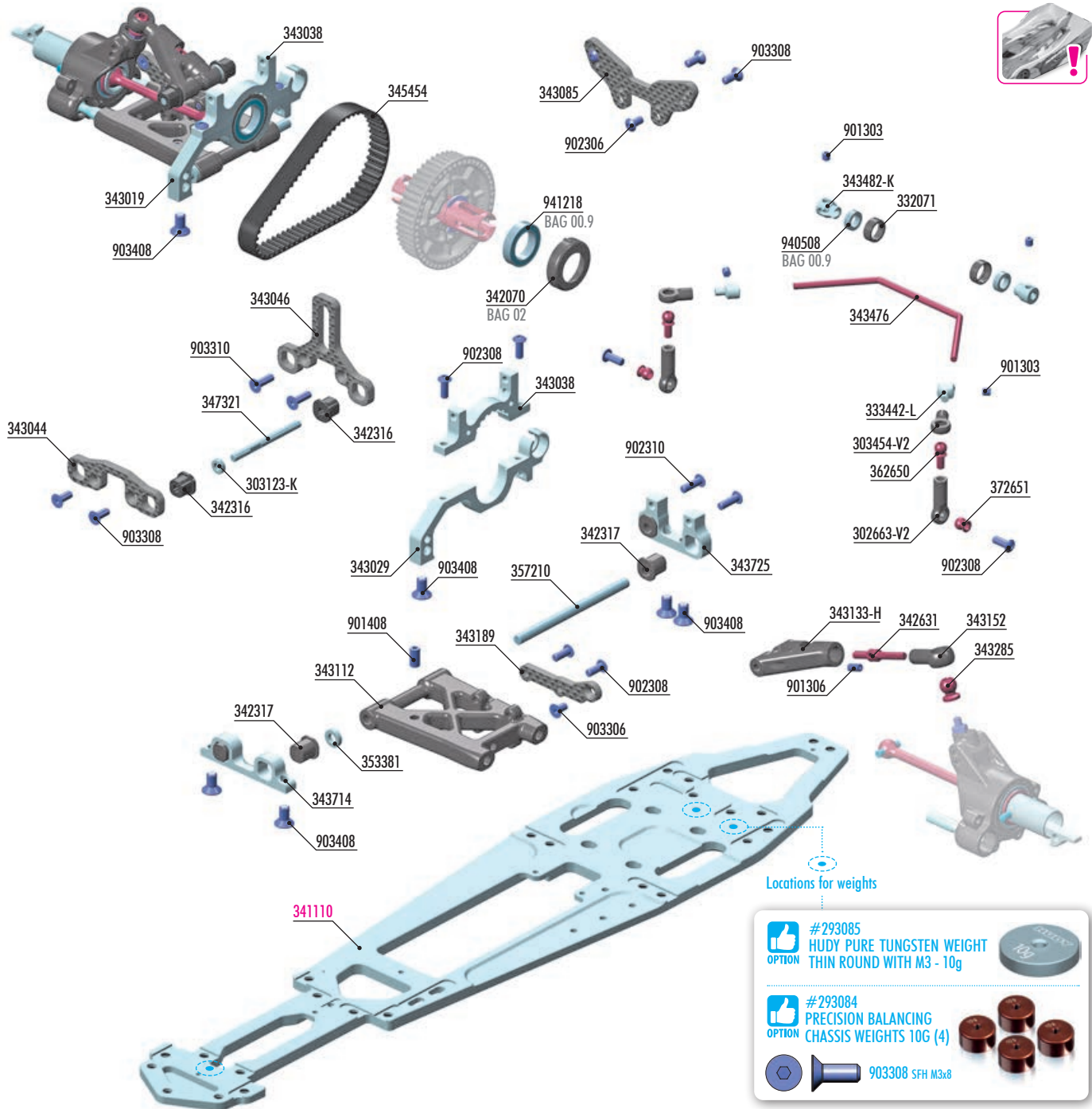
3x3mm

① TIGHTEN GENTLY
⑤ TIGHTEN FULLY

#980322-T
TITAN PIN 3x22 (2)
OPTION



3. REAR SUSPENSION - ASSEMBLY



BAG

03

303123-K ALU SHIM 3x6x2.0mm - BLACK (10)
 302663-V2 COMPOSITE BALL JOINT 4.9mm - OPEN (8)
 303454-V2 COMPOSITE BALL JOINT 4.9mm - OPEN (4)
 332071 COMPOSITE BALL-BEARING HUB (4)
 333442-L ALU ANTI-ROLL BAR COLLAR ø2.6 - LIGHTWEIGHT (2)
 342070 COMPOSITE SET OF BUSHINGS (2)
 342316 COMPOSITE REAR UPPER SUSP. ECCENTRIC BUSHING (4)
 342317 COMPOSITE REAR LOWER SUSP. ECCENTRIC BUSHING (4)
 342631 ADJ. TURNBUCKLE L/R 28mm - HUDY SPRING STEEL™ (2)
 343019 ALU LOWER BULKHEAD FRONT - SWISS 7075 T6 - RIGHT
 343029 ALU LOWER BULKHEAD FRONT - SWISS 7075 T6 - LEFT
 343038 ALU UPPER CLAMP REAR - SWISS 7075 T6 - (L+R)
 343044 CARBON REAR UPPER ARM HOLDER - FRONT
 343046 CARBON REAR UPPER ARM HOLDER & BODY MOUNT GUIDE
 343085 CARBON SHOCK TOWER REAR - WIDE
 343285 PIVOT BALL 6.8mm (2)
 343112 SUSPENSION ARM FOR EXTENSION - REAR LOWER - HARD
 343133-H COMPOSITE LONGER SUSPENSION ARM REAR UPPER - HARD
 343152 UPPER BALL JOINT 5.8mm - SHORT & LONG (2+2)
 343189 CARBON EXTENSION FOR REAR SUSPENSION ARM - 2-DOT (L+R)
 343476 ANTI-ROLL BAR REAR 2.6mm
 343482-K ALU CUTTED ANTI-ROLL BAR COLLAR ø2.6 - BLACK - V2 (2)
 343714 ALU REAR LOWER SUSPENSION HOLDER - FRONT - RF - BLACK

343725 ALU REAR LOWER SUSPENSION HOLDER M4 - REAR - RR - BLACK
 345454 PUR® REINFORCED DRIVE BELT REAR 9.0 x 201mm
 347321 REAR UPPER INNER PIVOT PIN WITH FLAT SPOT (2)
 353381 ALU SHIM 4x7.5x2 (4)
 357210 REAR LOWER INNER PIVOT PIN (2)
 362650 BALL END 4.9mm WITH 6mm THREAD (2)
 372651 PIVOT BALL UNIVERSAL 4.9mm - HUDY SPRING STEEL™ (2)

901303 HEX SCREW SB M3x3 (10)
 901306 HEX SCREW SB M3x6 (10)
 901408 HEX SCREW SB M4x8 (10)
 902306 HEX SCREW SH M3x6 (10)
 902308 HEX SCREW SH M3x8 (10)
 902310 HEX SCREW SH M3x10 (10)
 903306 HEX SCREW SFH M3x6 (10)
 903308 HEX SCREW SFH M3x8 (10)
 903310 HEX SCREW SFH M3x10 (10)
 903408 HEX SCREW SFH M4x8 (10)
 940508 BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
 941218 BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2)

341110 ALU CHASSIS 5mm - CNC MACHINED - SWISS 7075 T6

Numbers in parentheses () refer to quantities when purchased separately.

3. REAR SUSPENSION - ASSEMBLY



2x 901408
SB M4x8

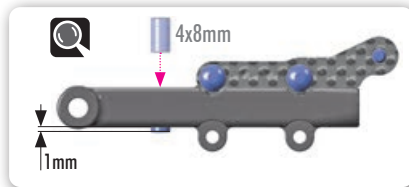
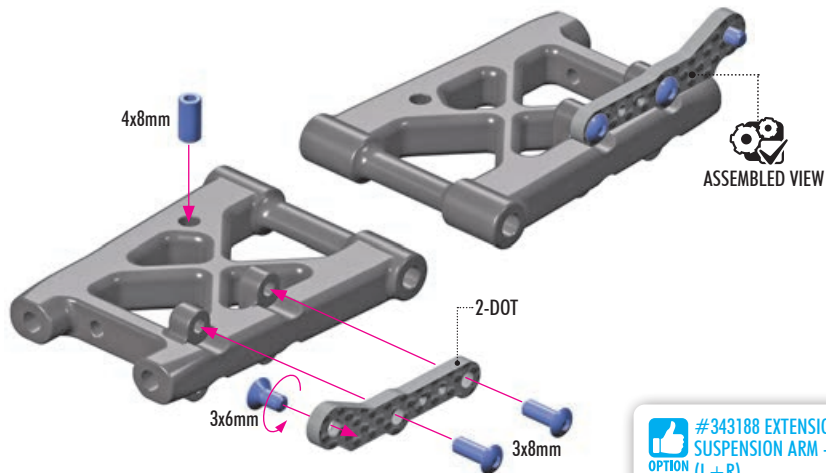


4x 902308
SH M3x8



2x 903306
SFH M3x6

2x L=R



#343188 EXTENSION FOR
SUSPENSION ARM - 1-DOT
(L+R)

OPTION

1-DOT

OPTION

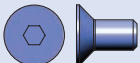
SUSPENSION LOWER ARMS

#343111	MEDIUM	OPTION
#343112	HARD	INCLUDED
#343113	GRAPHITE	OPTION



IO

2x 353381
SHIM 4x7.5x2



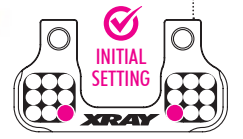
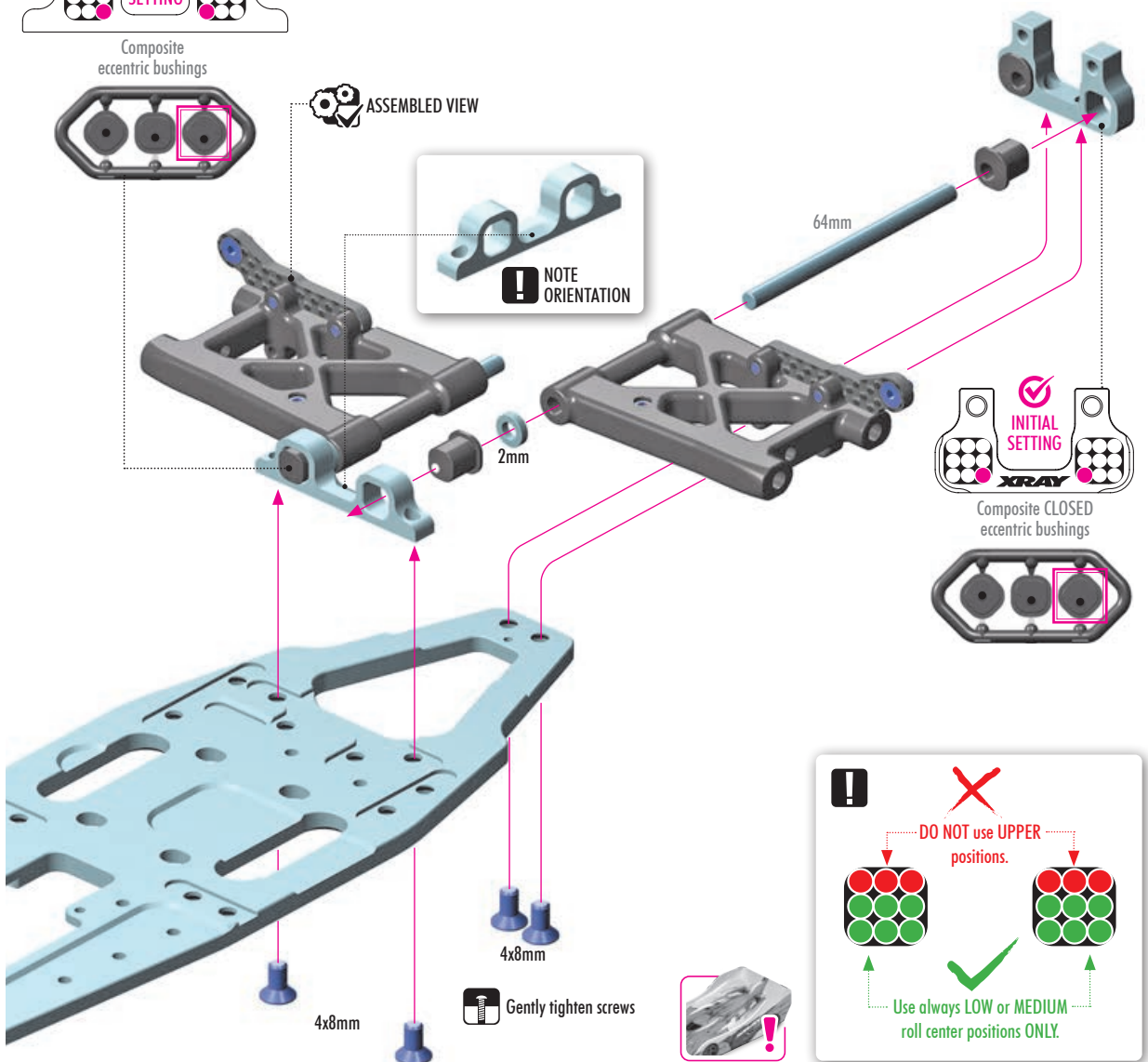
4x 903408
SFH M4x8



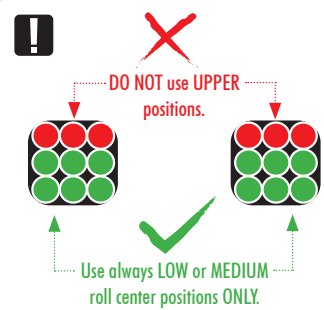
Composite
eccentric bushings

ASSEMBLED VIEW

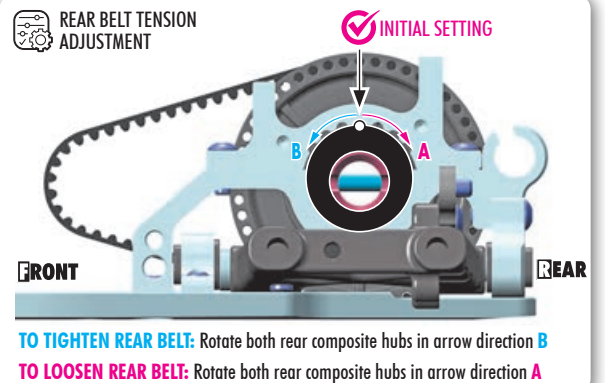
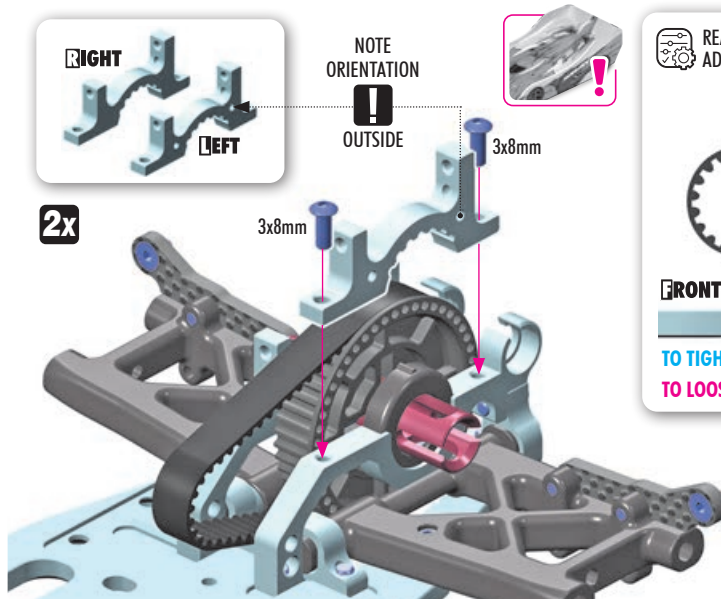
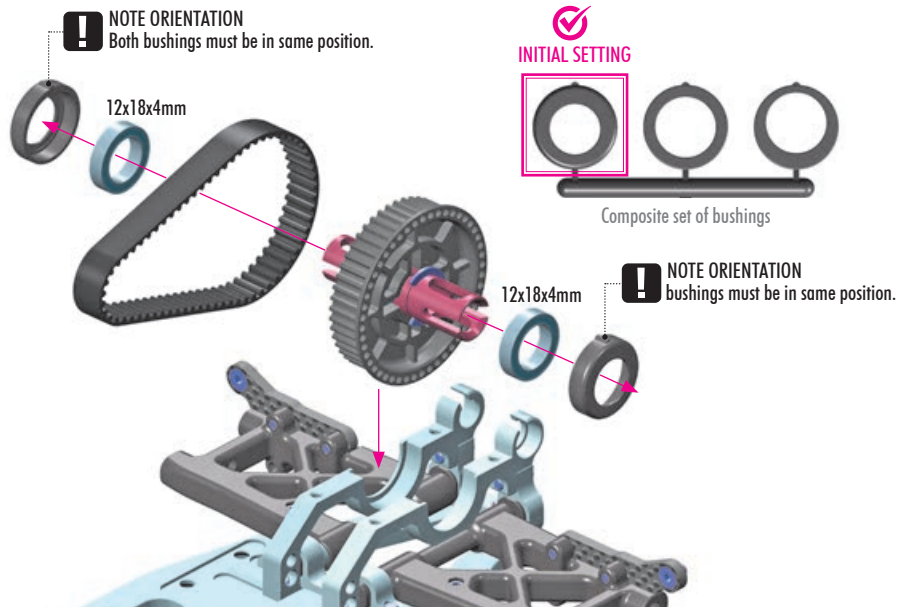
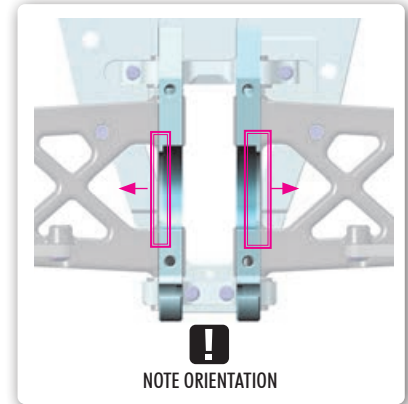
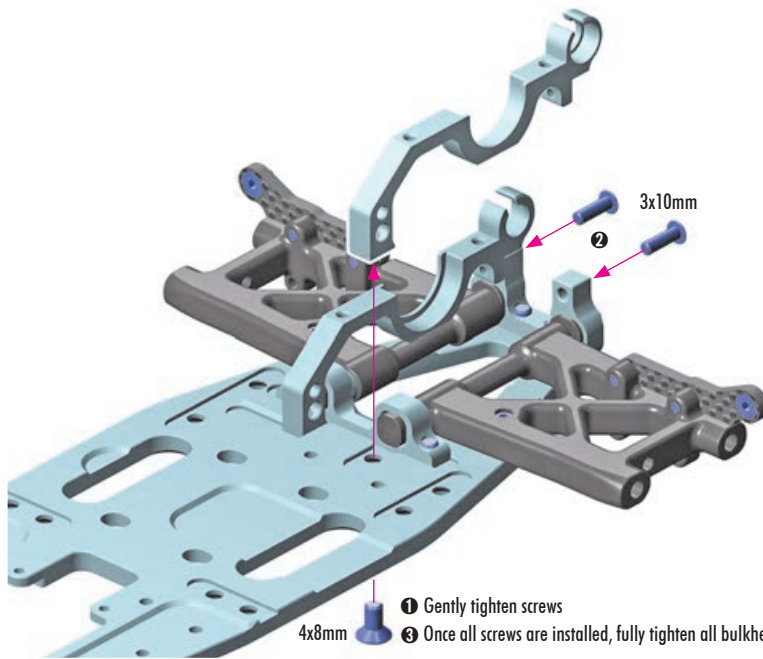
NOTE
ORIENTATION



Composite CLOSED
eccentric bushings



3. REAR SUSPENSION - ASSEMBLY

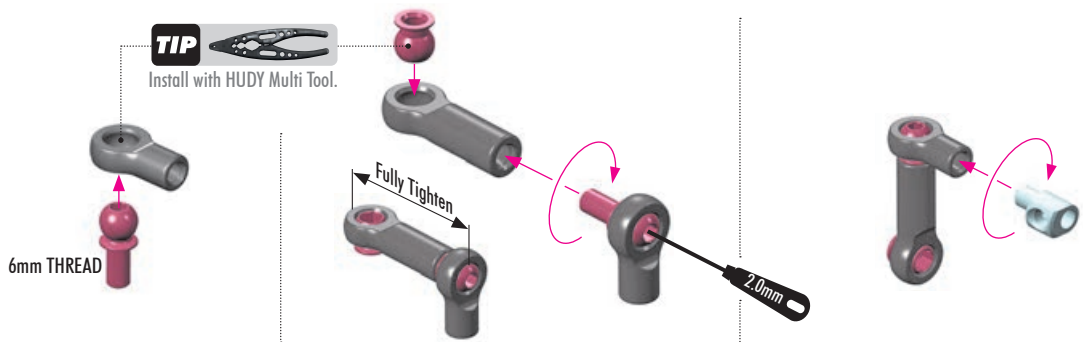


TIP COMPOSITE BUSHING
Use white mark on tab for better visibility
of composite hub position.



3. REAR SUSPENSION - ASSEMBLY

2x



2x 940508
BB 5x8x2.5

2x



REAR ANTI-ROLL BARS

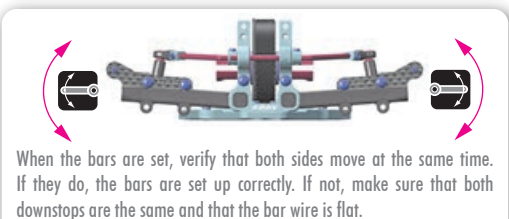
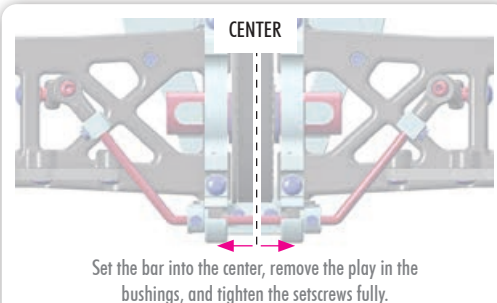
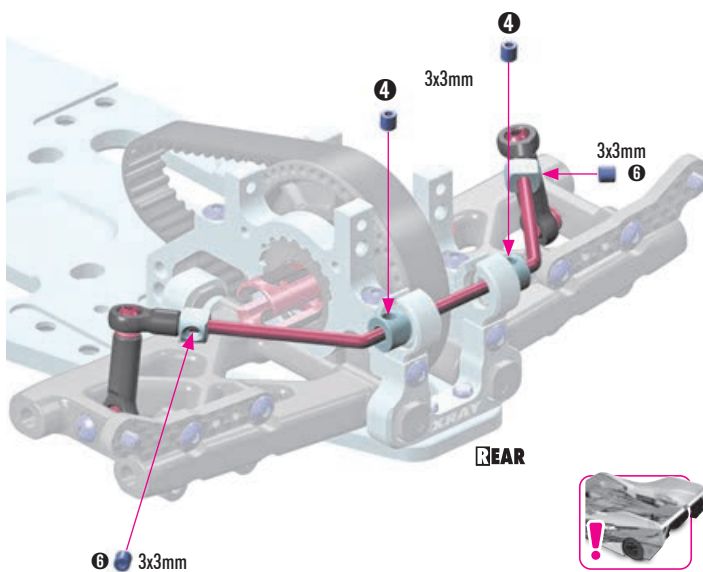
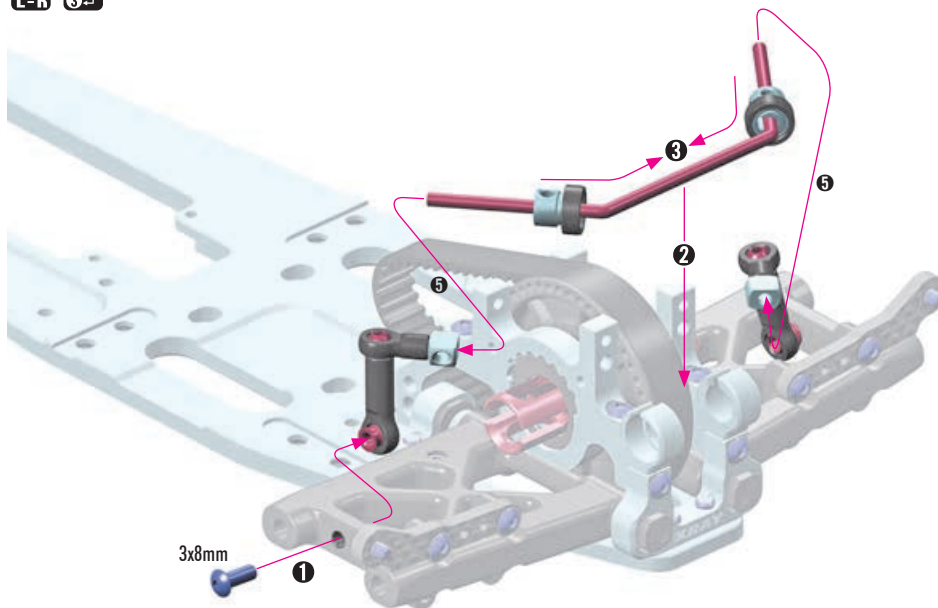
COLLARS

#343476	2.6mm	INCLUDED	#333442 + 343482-K INCLUDED
#343478	2.8mm	OPTION	#333441 + 343485-K OPTION
#343479	3.0mm	OPTION	#333441 + 343481-K OPTION

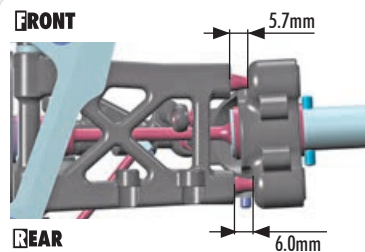
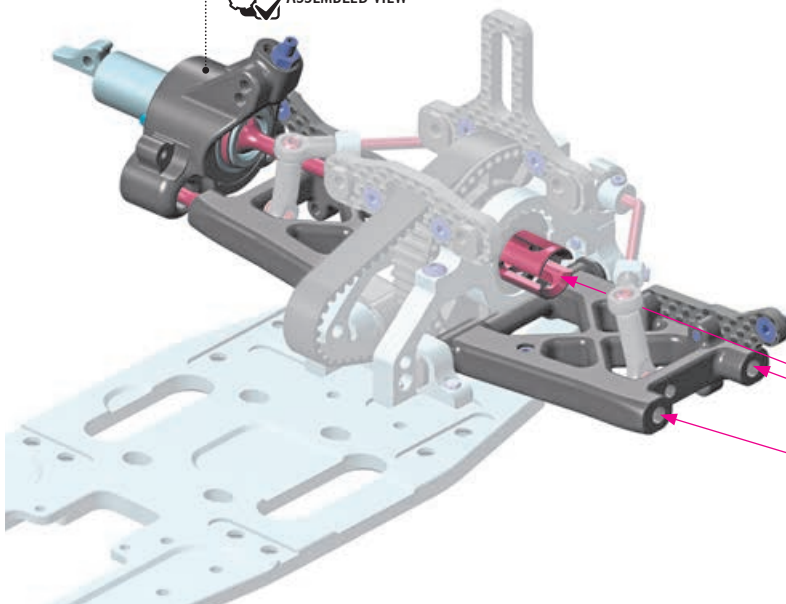
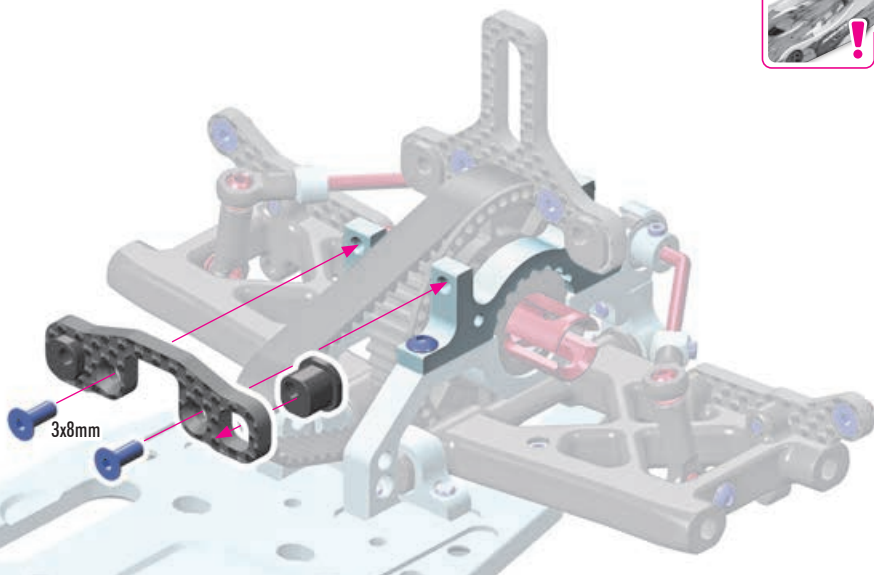
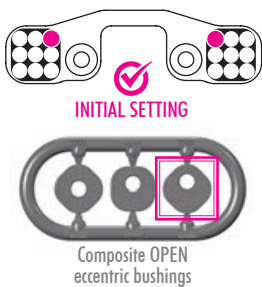
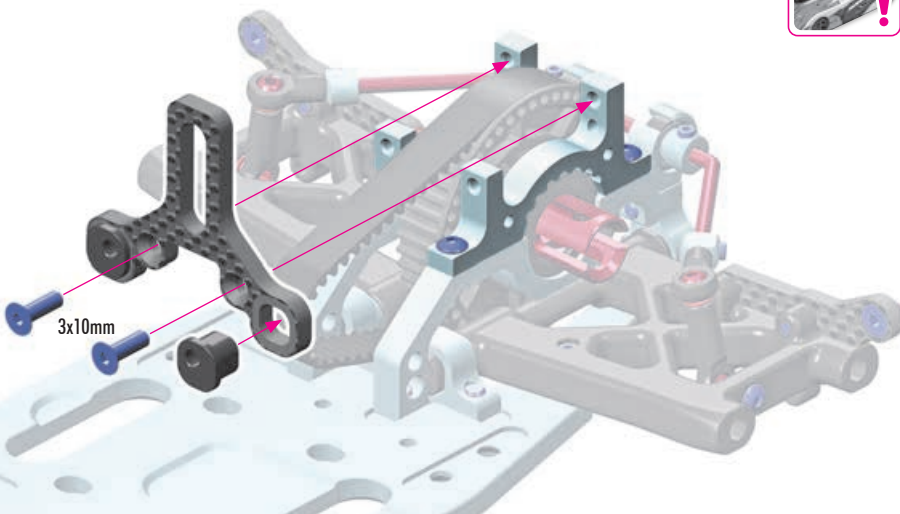
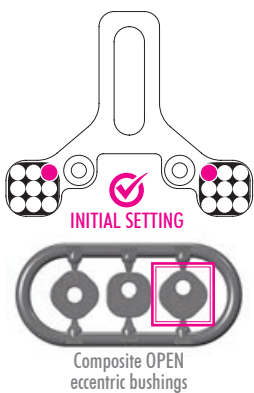


2x 902308
SH M3x8

1 2 SPECIFIC ORDER STEPS



3. REAR SUSPENSION - ASSEMBLY

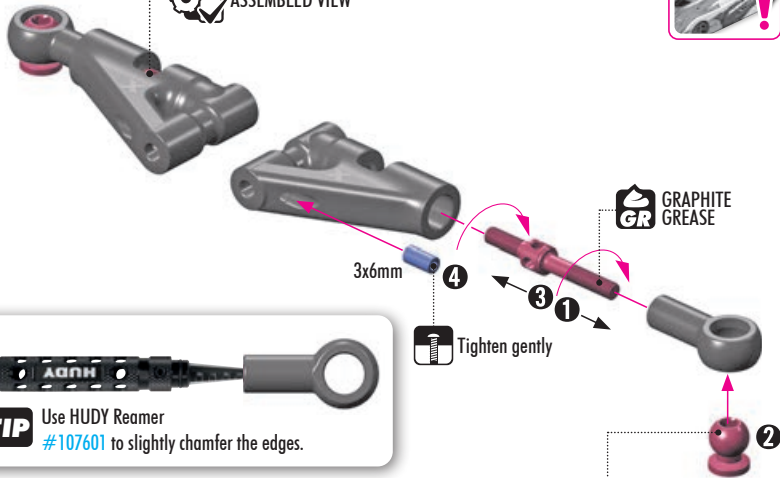


3. REAR SUSPENSION - ASSEMBLY

2x 901306
SB M3x6

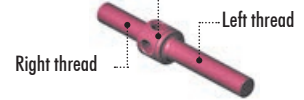
2x L=R

ASSEMBLED VIEW

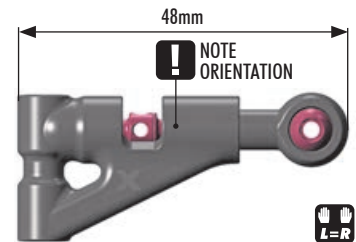
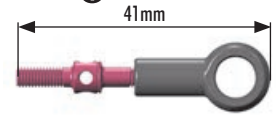


2x

NOTE ORIENTATION



DETAIL STEP 1

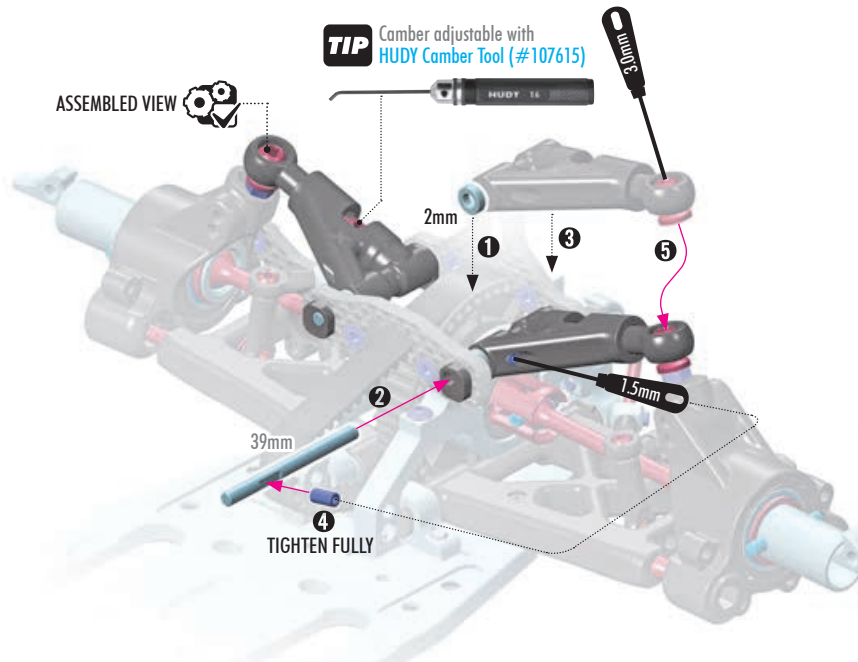


2x 303123-K
SHIM 3x6x2

2x L=R

SPECIFIC ORDER STEPS

ASSEMBLED VIEW



NOTE ORIENTATION

TIGHTEN FULLY
set-screw 3x6mm onto flatspot.

2x 902306
SH M3x6

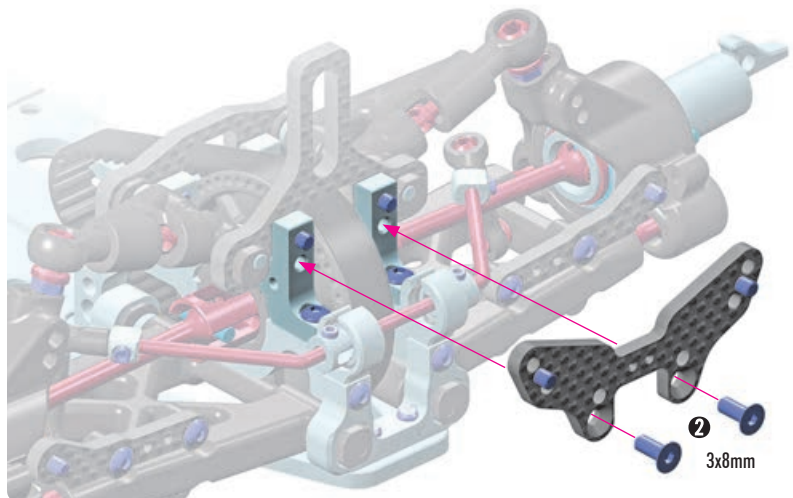
2x 903308
SFH M3x8

1 2 3 SPECIFIC ORDER STEPS

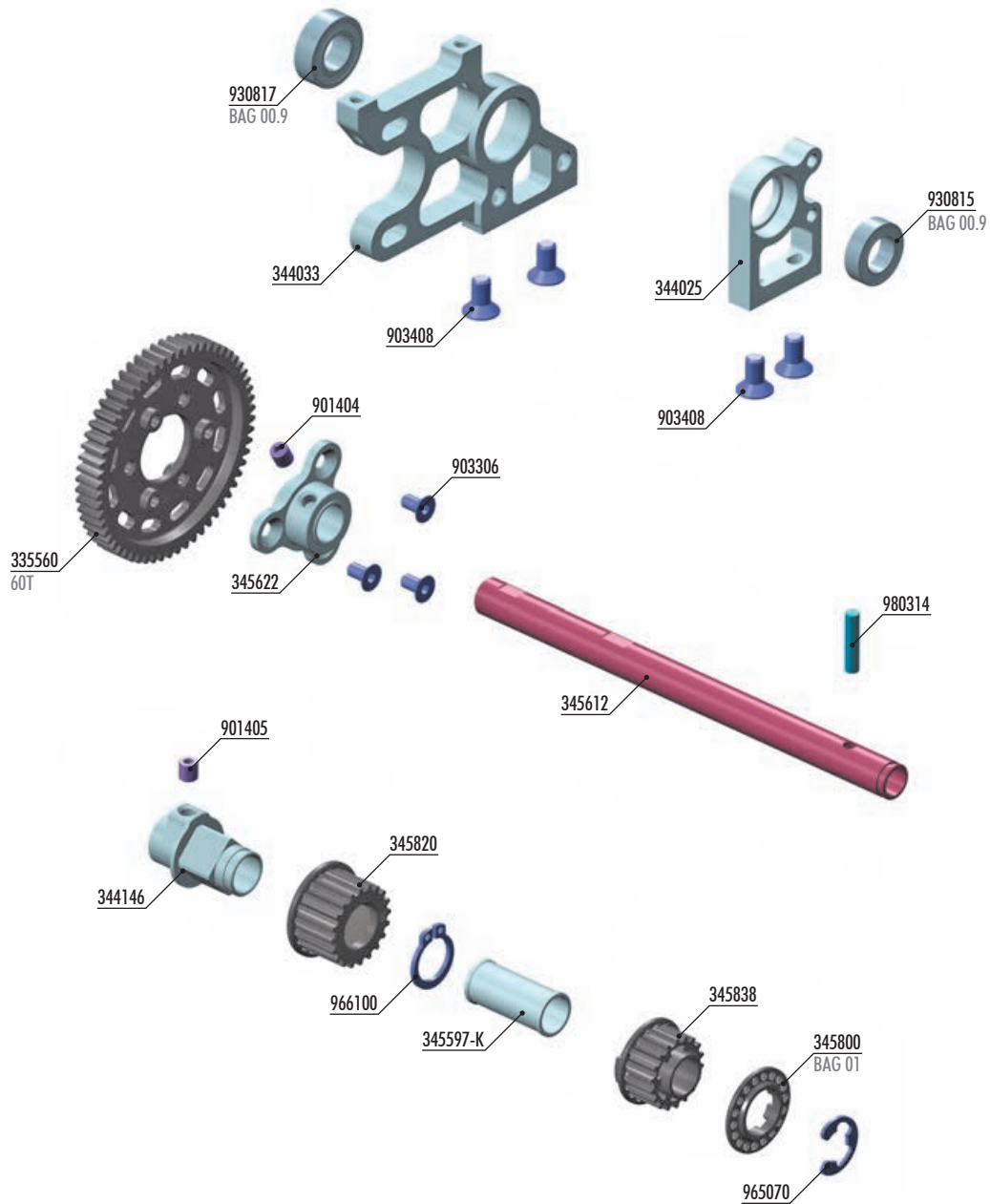
3x6mm

1

NOTE ORIENTATION



5. DRIVE TRAIN



OPTION

GRAPHITE GEARS			COMPOSITE GEARS		
335653	53T	OPTION	335553	53T	OPTION
335654	54T	OPTION	335554	54T	OPTION
335655	55T	OPTION	335555	55T	OPTION
335657	57T	OPTION	335557	57T	OPTION
335658	58T	OPTION	335558	58T	OPTION
335659	59T	OPTION	335559	59T	OPTION
335660	60T	OPTION	335560	60T	INCLUDED



OPTION

#345801-G

LOW FRICTION COMPOSITE BELT PULLEY SET - GRAPHITE

BELT PULLEY 18T - ø8 REAR
BELT PULLEY 18T - ø6 CENTER
BELT PULLEY 28T - FRONT
BELT PULLEY 29T - FRONT



OPTION

#345921

ALU CENTER BELT PULLEY 20T



BAG

05



BAG 04
is NOT existing and
NOT included in
RX8E kit.

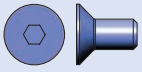
335560 SPUR GEAR 60T (1st)
344025 ALU 2-SPEED HOLDER - SWISS 7075 T6
344033 RX8E ALU ELECTRIC MOTOR MOUNT - SWISS 7075 T6
344146 ALU ADAPTER - SWISS 7075 T6 - HARD COATED
345597-K ALU COLLAR 8x10x21mm - BLACK
345612 RX8E CENTER SHAFT - HUDY SPRING STEEL™
345622 RX8E ALU SPUR GEAR COLLAR - LIGHTWEIGHT - SWISS 7075 T6
345800 COMPOSITE BELT PULLEY COVER SET
345820 COMPOSITE 2-SPEED BELT PULLEY 20T - CENTER
345838 COMPOSITE SIDE BELT PULLEY 18T ø8 - REAR

901404 HEX SCREW SB M4x4 (10)
901405 HEX SCREW SB M4x5 (10)
903306 HEX SCREW SFH M3x6 (10)
903408 HEX SCREW SFH M4x8 (10)
930815 BALL-BEARING 8x14x4 STEEL SEALED - OIL (2)
930817 BALL-BEARING 8x16x5 STEEL SEALED - OIL (2)
965070 E-CLIP 7 (10)
966100 CH-CLIP 10 (10)
980314 PIN 3x14 (10)

Numbers in parentheses () refer to quantities when purchased separately.

XRAY

5. DRIVE TRAIN



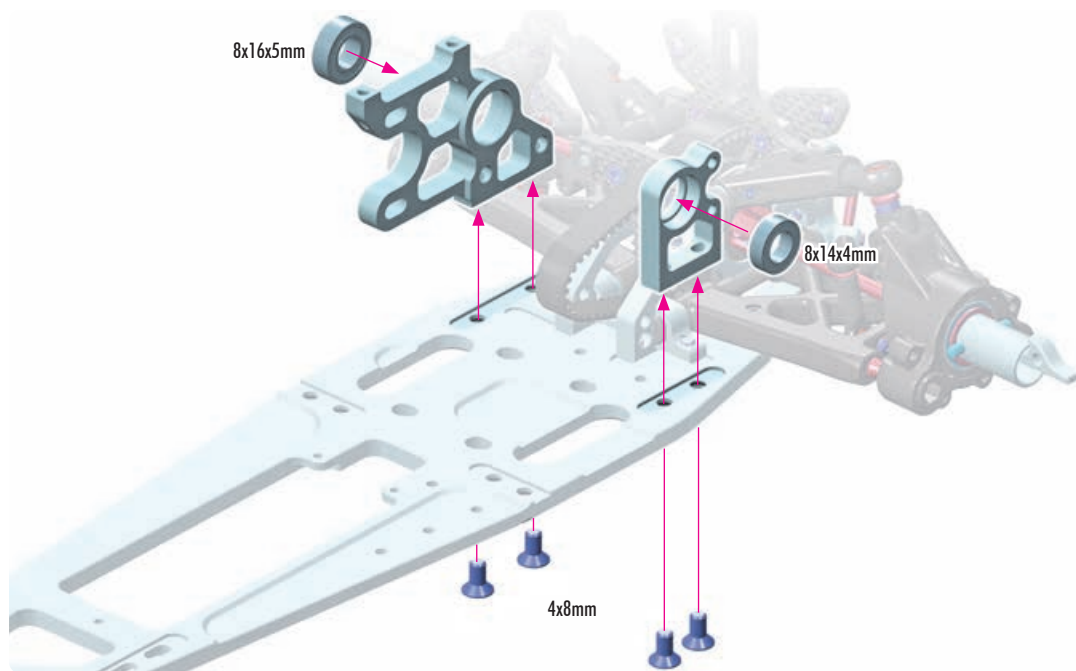
4x 903408
SFH M4x8



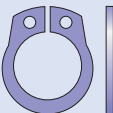
1x 930815
BB 8x14x4



1x 930817
BB 8x16x5



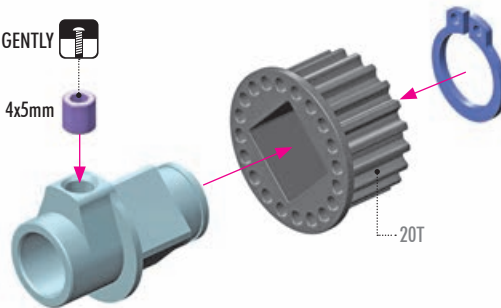
1x 901405
SB M4x5



1x 966100
CH 10

TIGHTEN GENTLY

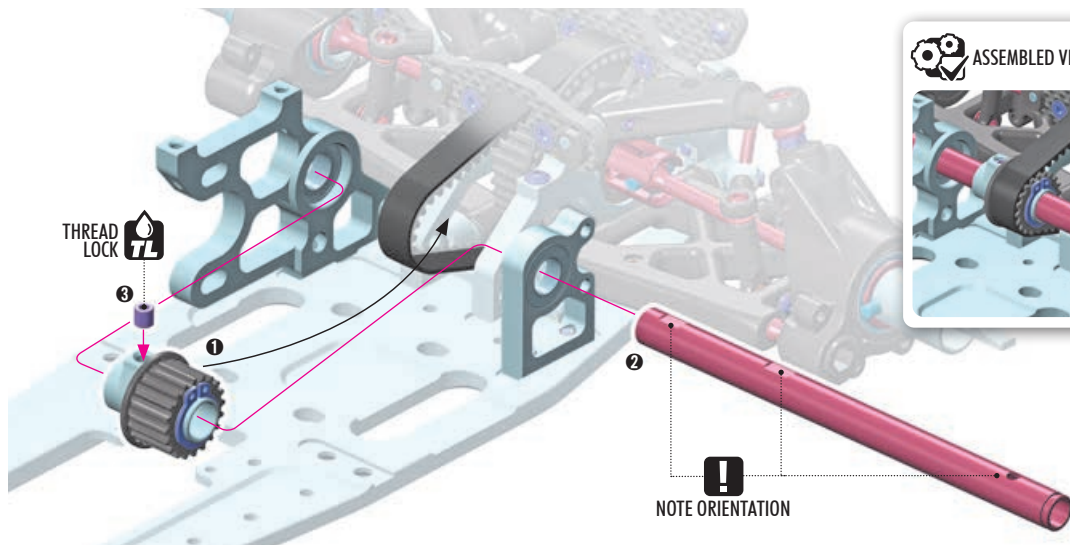
4x5mm



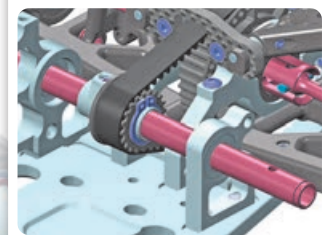
ASSEMBLED VIEW



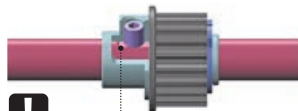
#345921
ALU CENTER BELT
PULLEY 20T



ASSEMBLED VIEW



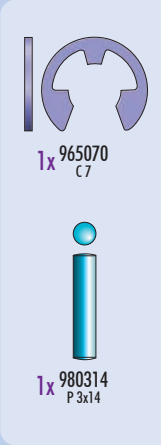
STEP 2 DETAIL



Tighten set-screw onto flat spot.



5. DRIVE TRAIN



1x 965070
C7

1x 980314
P 3x14

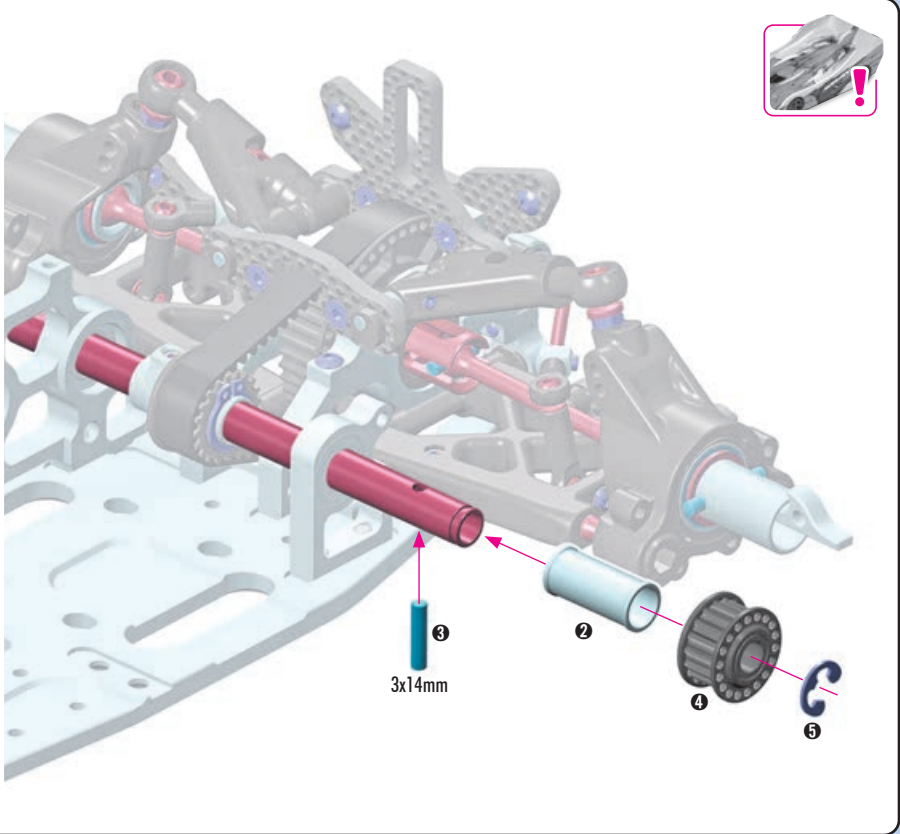
1 2 3 SPECIFIC ORDER STEPS


NOTE ORIENTATION of both parts.

20T / ø8mm

3x14mm

4 5






3x 903306
SFH M3x6


NOTE ORIENTATION

3x6mm

60T

GRAPHITE GEARS			COMPOSITE GEARS		
		OPTION			OPTION
335653	53T	OPTION	335553	53T	OPTION
335654	54T	OPTION	335554	54T	OPTION
335655	55T	OPTION	335555	55T	OPTION
335657	57T	OPTION	335557	57T	OPTION
335658	58T	OPTION	335558	58T	OPTION
335659	59T	OPTION	335559	59T	OPTION
335660	60T	OPTION	335560	60T	INCLUDED



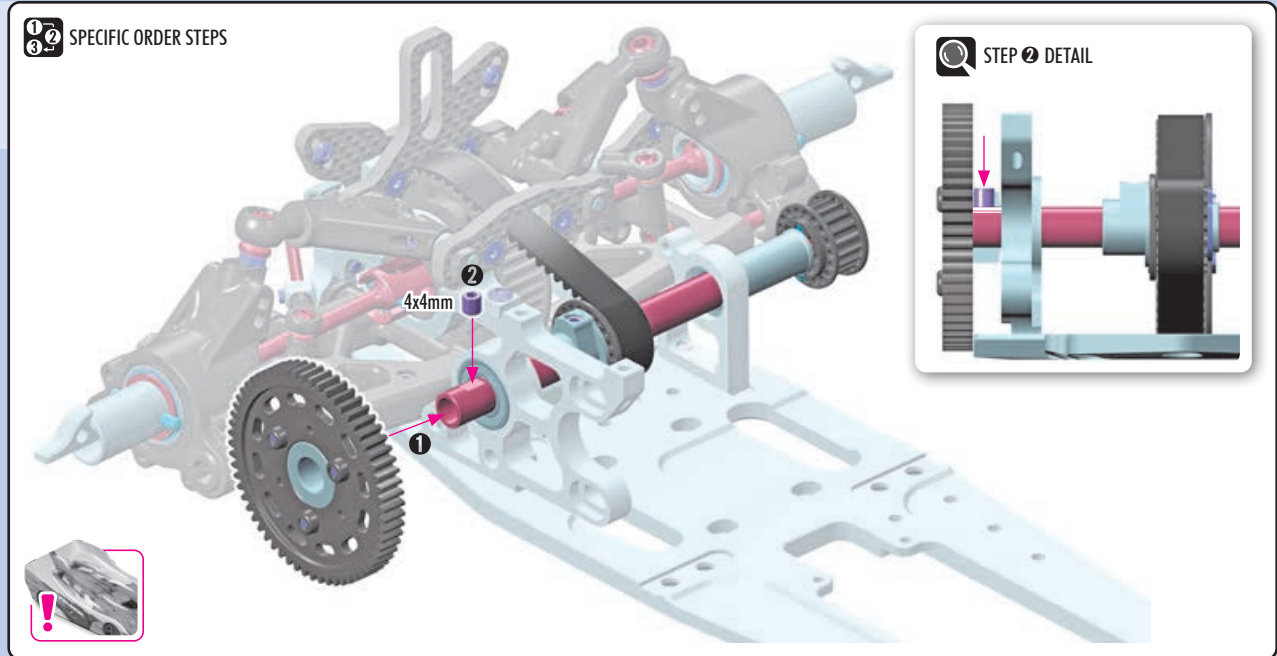


1x 901404
SB M4x4

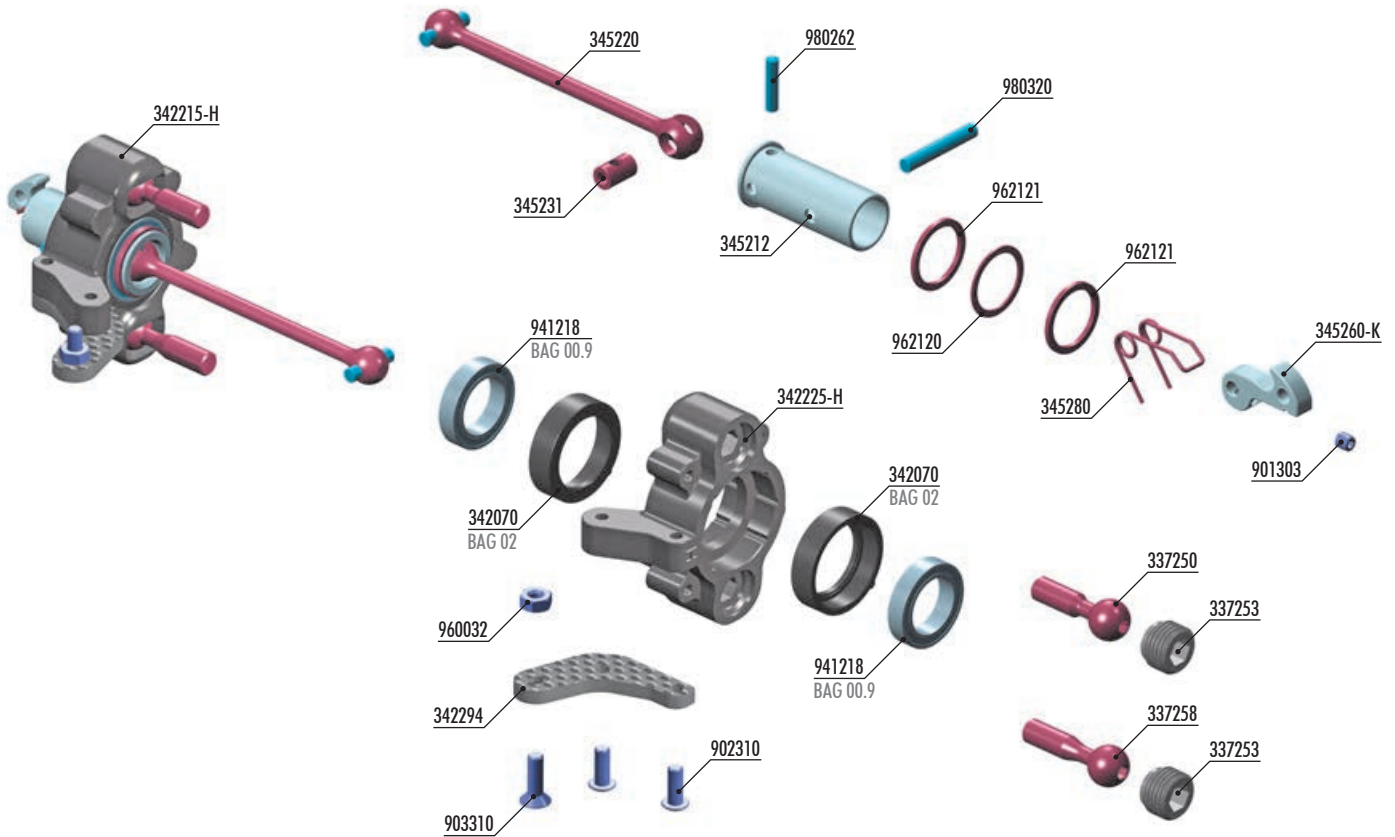
1 2 3 SPECIFIC ORDER STEPS

4x4mm

STEP 2 DETAIL



6. FRONT SUSPENSION



ADJUSTING NUT

#337253	COMPOSITE	INCLUDED
#337252	ALU	OPTION



*The alu nut must be used together with #337254 – Composite Ball Cup 8.4mm.



STEERING BLOCKS

#342215	R	MEDIUM	OPTION
#342215-H	R	HARD	INCLUDED
#342215-G	R	GRAPHITE	OPTION
#342225	L	MEDIUM	OPTION
#342225-H	L	HARD	INCLUDED
#342225-G	L	GRAPHITE	OPTION



#345210 FRONT WHEEL AXLE HUDY SPRING STEEL™



#345270 GRAPHITE FRONT AERODYNAMIC DISC 1.6mm - SET



#980320-T TITAN PIN 3x20 (2)



BAG

06

337250	STEEL PIVOT BALL 8.4mm (2)
337253	COMPOSITE ADJUSTING NUT M10x1 (4)
337258	STEEL PIVOT BALL 8.4mm ø3.3 L=25mm (2)
342070	COMPOSITE SET OF BUSHINGS (2)
342215-H	EXTRA ECCENTRIC STEERING BLOCK FOR AERO DISC - RIGHT - HARD
342225-H	EXTRA ECCENTRIC STEERING BLOCK FOR AERO DISC - LEFT - HARD
342294	CARBON EXTENSION FOR STEERING BLOCK - 2-DOT (L+R)
345212	ALU FRONT CVD DRIVE AXLE - SWISS 7075 T6 - HARD COATED
345220	FRONT CVD DRIVE SHAFT 63mm - HUDY SPRING STEEL™
345231	DRIVE SHAFT COUPLING - HUDY SPRING STEEL™
345260-K	ALU FRONT WHEEL LOCK - SWISS 7075 T6 - BLACK (2)
345280	WHEEL SPRING (2)

901303	HEX SCREW SB M3x3 (10)
902310	HEX SCREW SH M3x10 (10)
903310	HEX SCREW SFH M3x10 (10)
941218	BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2)
960032	NUT M3 (10)
962120	WASHER S 12x15x0.5 (10)
962121	WASHER S 12x15x1.0 (10)
980262	PIN 2.5x12 (10)
980320	PIN 3x20 (10)

Numbers in parentheses () refer to quantities when purchased separately.

6. FRONT SUSPENSION

2x

L=R

Short Ball

Long Ball

5mm

Tighten composite hex nuts using HUDY tool #107581.

TIP

PIVOT BALLS MUST MOVE FREELY

During initial assembly, tighten each composite hex nut until the pivot ball starts to bind, then loosen slightly. Verify that the pivot balls move freely.

OPTION

ADJUSTING NUT			
#337253	COMPOSITE	INCLUDED	
#337252	ALU	OPTION	

*The alu nut must be used together with #337254 – Composite Ball Cup 8.4mm.

OPTION

STEERING BLOCKS			
#342215	R	MEDIUM	OPTION
#342215-H	R	HARD	INCLUDED
#342215-G	R	GRAPHITE	OPTION
#342225	L	MEDIUM	OPTION
#342225-H	L	HARD	INCLUDED
#342225-G	L	GRAPHITE	OPTION

4x 902310
SH M3x10

2x 903310
SFH M3x10

2x 960032
N M3

2x

L=R

LEFT

RIGHT

M3

Hole ø2.5mm

3x10mm

3x10mm

ASSEMBLED VIEW

2x 980262
P 2.5x12

2x

L=R

1 2 3

SPECIFIC ORDER STEPS

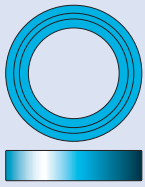
ASSEMBLED VIEW

EXTREMELY IMPORTANT

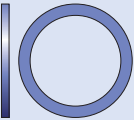
✓ CORRECT

✗ INCORRECT

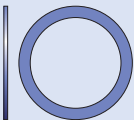
6. FRONT SUSPENSION



4x 941218
BB 12x18x4

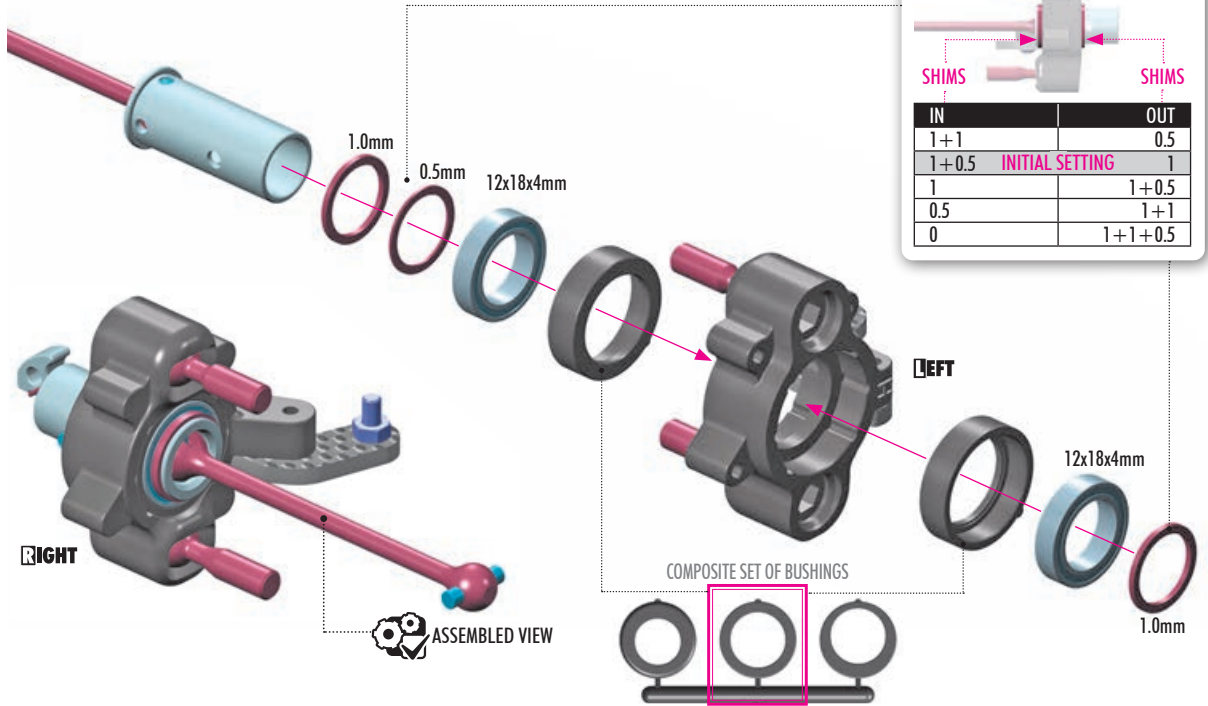


2x 962120
S 12x15x0.5



4x 962121
S 12x15x1.0

2x



RIGHT

LEFT

COMPOSITE SET OF BUSHINGS

ASSEMBLED VIEW



#345210
FRONT WHEEL AXLE
HUDY SPRING STEEL™



#345290
ALU SHIM 12x15x1.0mm (4)



#345291
ALU SHIM 12 x 15 x 1.5mm (4)

INITIAL SETTING

CONCENTRIC

EXCENTRIC

NOTE ORIENTATION

When using eccentric bushings, both bushings must be in same position.



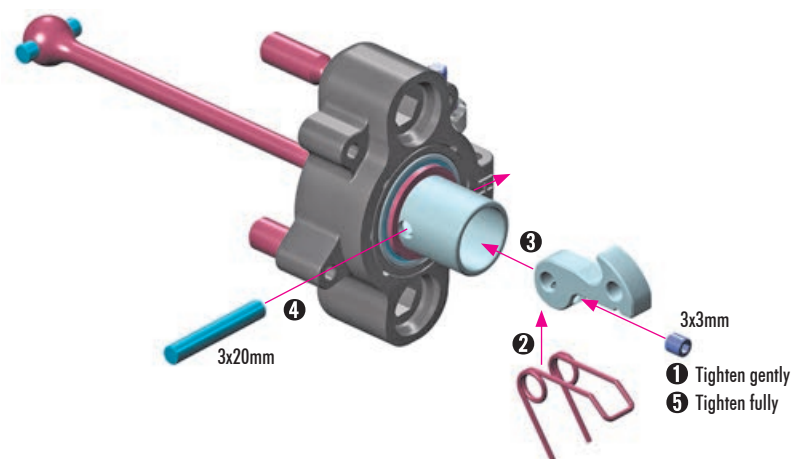
2x 901303
SB M3x3



2x 980320
P 3x20

2x

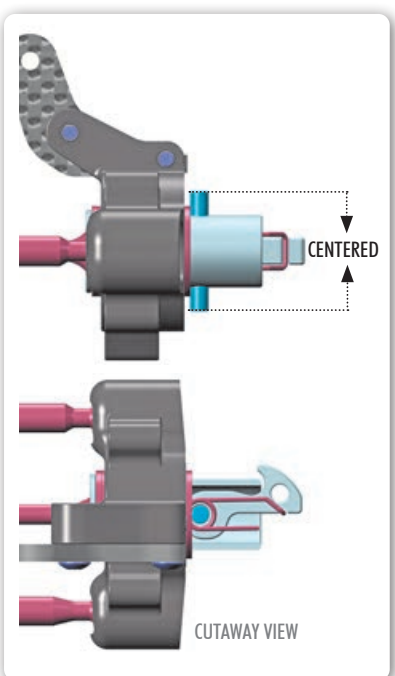
SPECIFIC ORDER STEPS



#345270
GRAPHITE FRONT
AERODYNAMIC DISC
1.6mm - SET



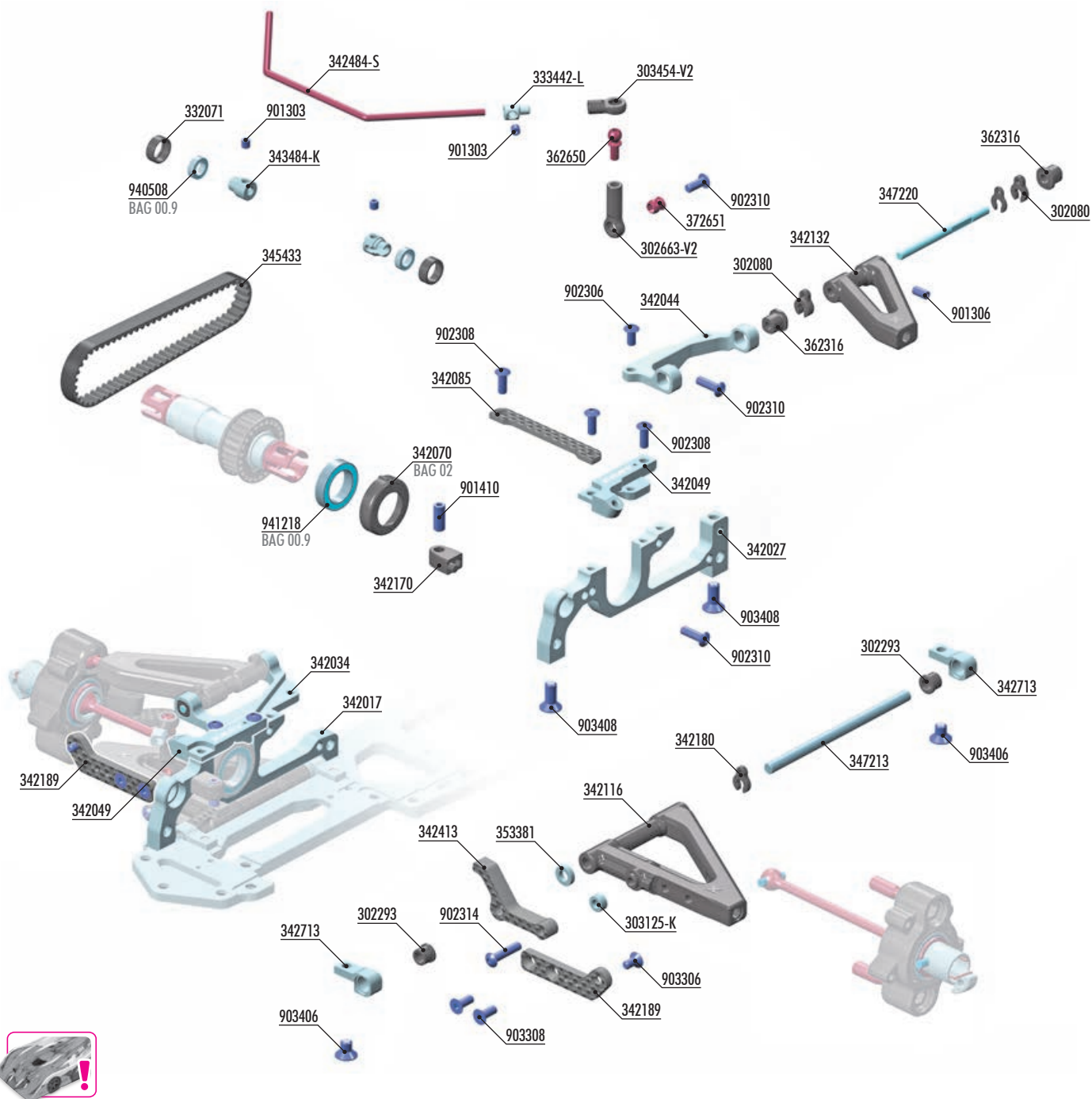
#980320-T
TITAN PIN 3x20 (2)



CENTERED

CUTAWAY VIEW

7. FRONT SUSPENSION



BAG

07

303125-K	ALU SHIM 3x6x3.0mm - BLACK (10)	343484-K	ALU CUTTED ANTI-ROLL BAR COLLAR ø2.4 - BLACK (2)
302080	COMPOSITE CASTER CLIPS SET 4+3+2+1mm (2)	345433	LOW FRICTION DRIVE BELT FRONT 6.0 x 207mm
302293	C-HUB BUSHING COMPOSITE - V2 (4)	347213	PIVOT PIN 4x72mm (2)
302663-V2	COMPOSITE BALL JOINT 4.9mm - OPEN - V3 (8)	347220	PIVOT PIN WITH FLAT SPOT (2)
303454-V2	BALL JOINT 4.9mm - OPEN - V2 (4)	353381	ALU SHIM 4x7.5x2 (4)
332071	COMPOSITE BALL-BEARING HUB (4)	362316	COMPOSITE OPEN ECCENTRIC BUSHING SET (2)
333442-L	ALU ANTI-ROLL BAR COLLAR ø2.6 - LIGHTWEIGHT (2)	362650	BALL END 4.9mm WITH THREAD 6mm (2)
342017	ALU LOWER BULKHEAD FRONT - SWISS 7075 T6 - RIGHT	372651	PIVOT BALL UNIVERSAL 4.9mm - HUDY SPRING STEEL (2)
342027	ALU LOWER BULKHEAD FRONT - SWISS 7075 T6 - LEFT		
342034	ALU UPPER ARM HOLDER RIGHT - SWISS 7075 T6 - SET	901303	HEX SCREW SB M3x3 (10)
342044	ALU UPPER ARM HOLDER LEFT - SWISS 7075 T6 - SET	901306	HEX SCREW SB M3x6 (10)
342049	ALU UPPER CLAMP FRONT - SWISS 7075 T6 - (L+R)	901410	HEX SCREW SB M4x10 (10)
342070	COMPOSITE SET OF BUSHINGS (2)	902306	HEX SCREW SH M3x6 (10)
342085	CARBON FRONT BRACE	902308	HEX SCREW SH M3x8 (10)
342116	SUSPENSION ARM FOR WIRE ANTI-ROLL BAR - FRONT LOWER - HARD	902310	HEX SCREW SH M3x10 (10)
342132	COMPOSITE SUSPENSION ARM FRONT UPPER - SHORT - HARD	902314	HEX SCREW SH M3x14 (10)
342170	COMPOSITE SUSPENSION ARM DOWNSTOP (2)	903306	HEX SCREW SFH M3x6 (10)
342180	COMPOSITE LOWER SUSP. ARM CLIPS (2)	903308	HEX SCREW SFH M3x8 (10)
342189	CARBON EXTENSION FOR FRONT SUSPENSION ARM - 2-DOT (L+R)	903406	HEX SCREW SFH M4x6 (10)
342413	CARBON FRONT DOWNSTOP BACKSTOP (2)	903408	HEX SCREW SFH M4x8 (10)
342484-S	ANTI-ROLL BAR FRONT 2.4mm - SHORT	940508	BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
342713	ALU LOWER FRONT SUSPENSION HOLDER (1) - BLACK - 7075 T6	941218	BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2)

Numbers in parentheses () refer to quantities when purchased separately.

XRAY

7. FRONT SUSPENSION



2x L=R

ASSEMBLED VIEW



FRONT SUSPENSION UPPER ARMS		
#342131	MEDIUM	OPTION
#342132	HARD	INCLUDED
#342133	GRAPHITE	OPTION
#342134	SOFT	OPTION



FRONT SUSPENSION LOWER ARMS		
#342114	MEDIUM	OPTION
#342116	HARD	INCLUDED
#342115	GRAPHITE	OPTION



#342188
CARBON EXTENSION FOR
FRONT SUSPENSION ARM
1-DOT (L+R)

3x8mm

3x6mm

2-DOT



2x L=R

ASSEMBLED VIEW

2mm

2mm

3mm

3x14mm



2x L=R

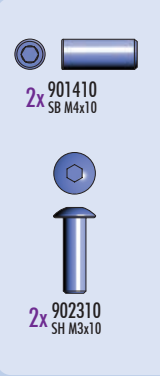
ASSEMBLED VIEW

4x6mm

4x6mm

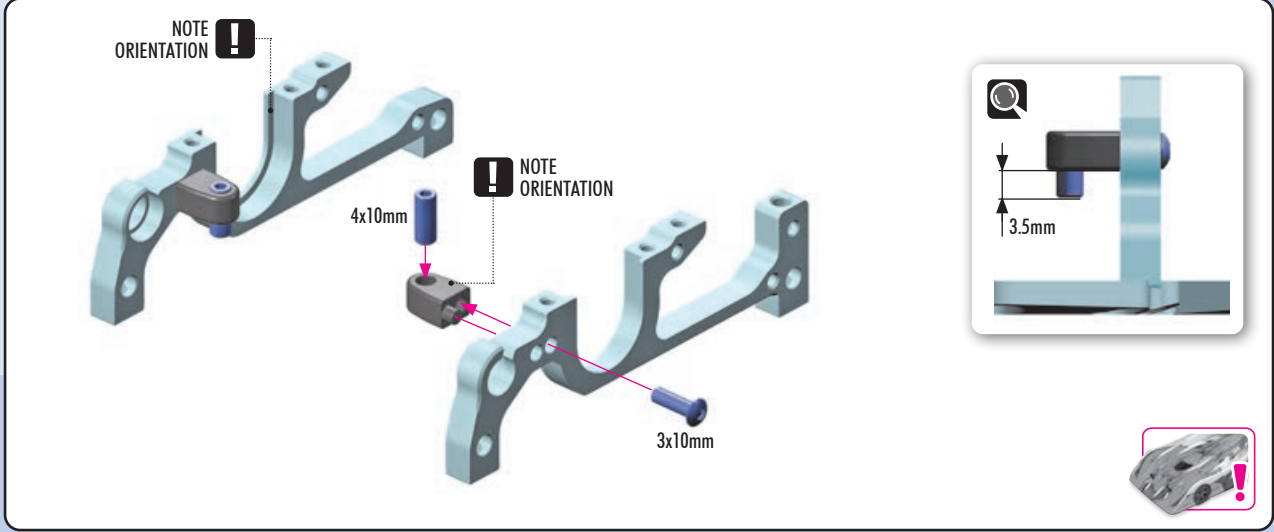


7. FRONT SUSPENSION



2x 901410
SB M4x10

2x 902310
SH M3x10



NOTE ORIENTATION !

4x10mm

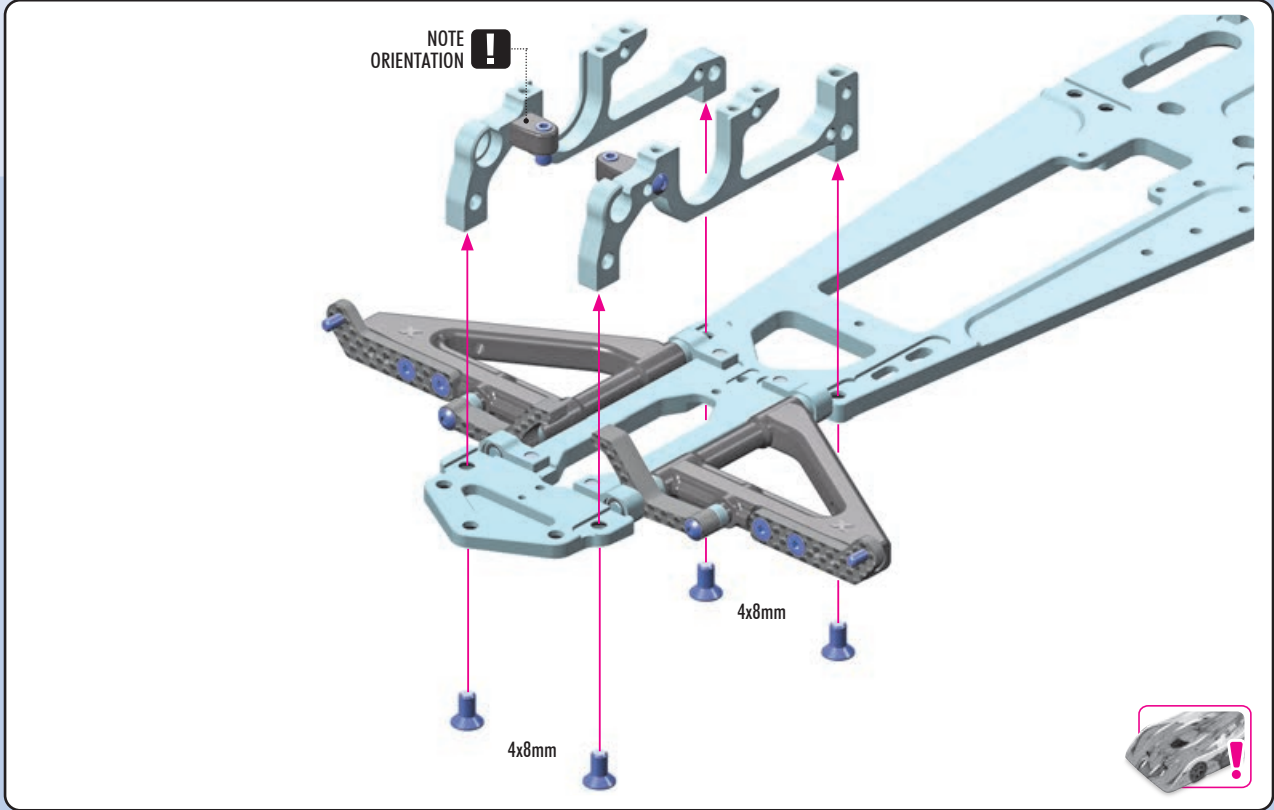
NOTE ORIENTATION !

3x10mm

3.5mm



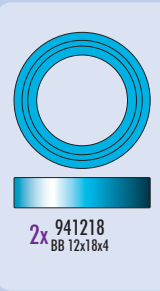
4x 903408
SFH M4x8



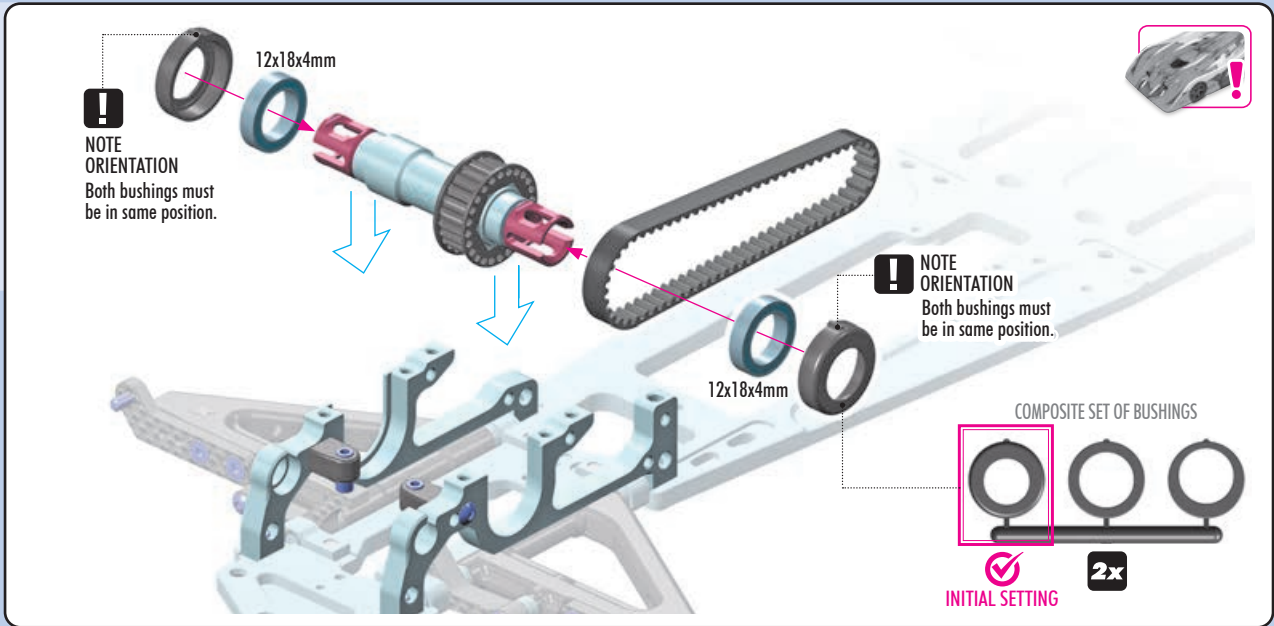
NOTE ORIENTATION !

4x8mm

4x8mm



2x 941218
BB 12x18x4



NOTE ORIENTATION !

Both bushings must be in same position.

12x18x4mm

NOTE ORIENTATION !

Both bushings must be in same position.

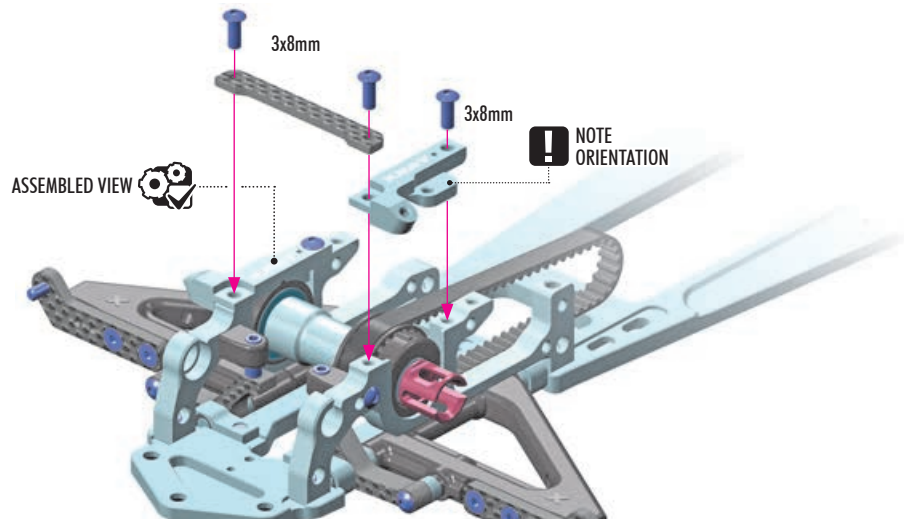
12x18x4mm

COMPOSITE SET OF BUSHINGS

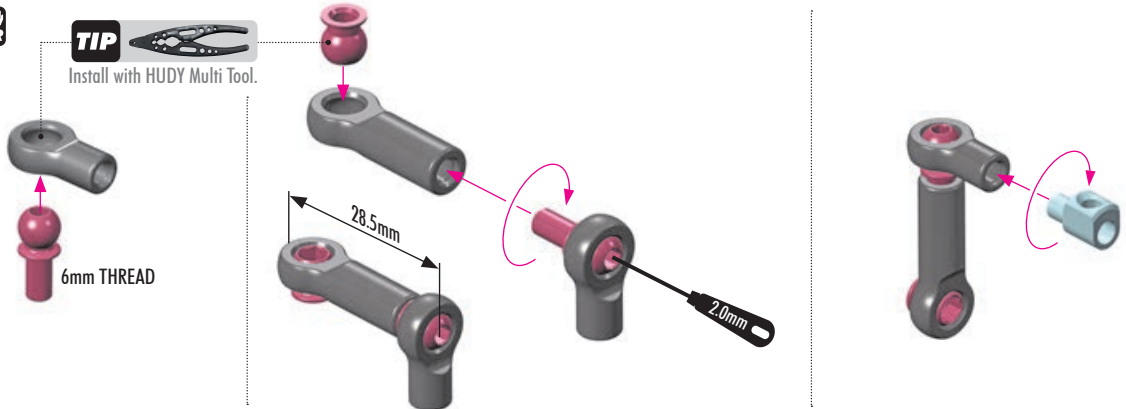
INITIAL SETTING

2x

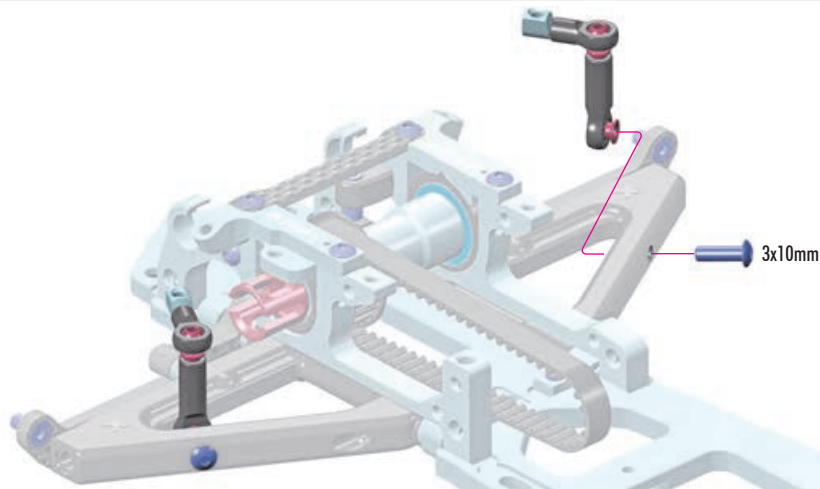
7. FRONT SUSPENSION

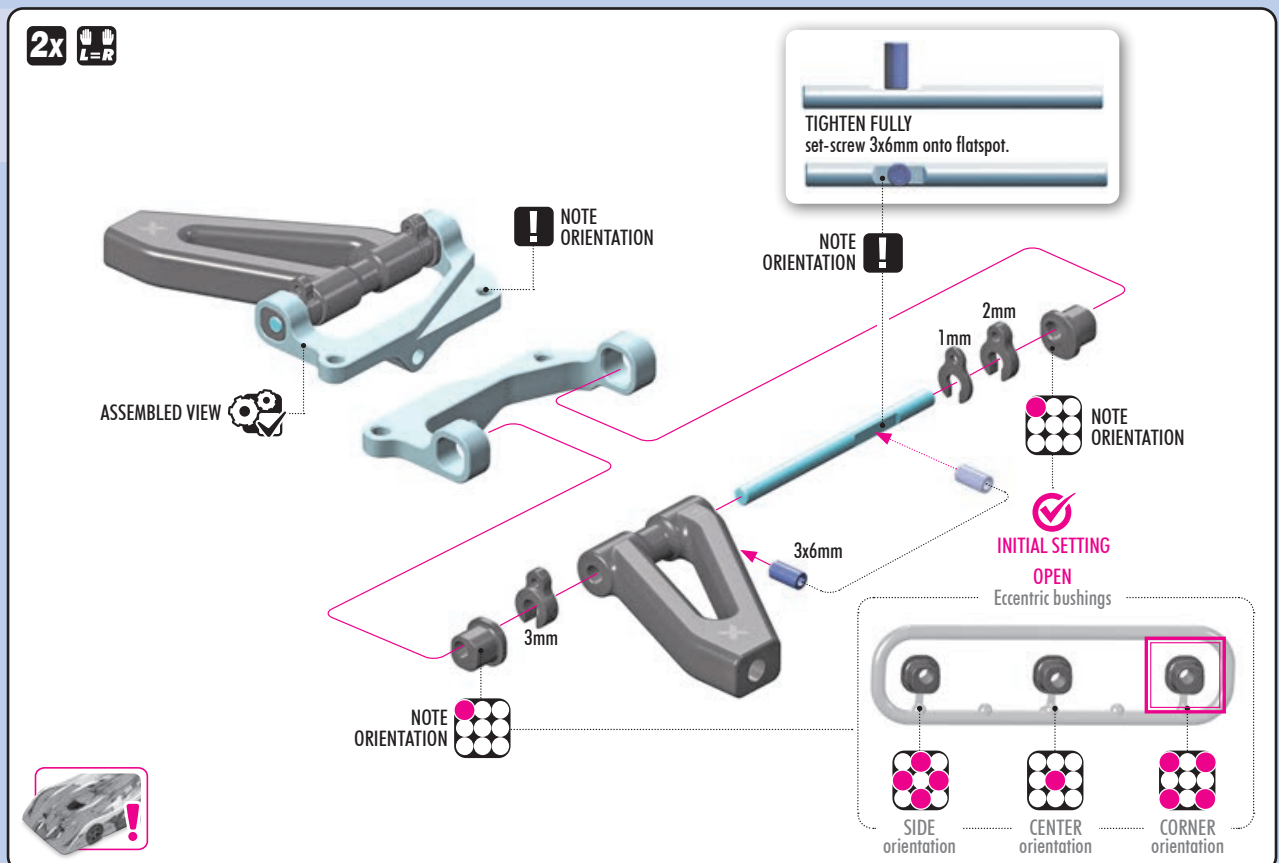
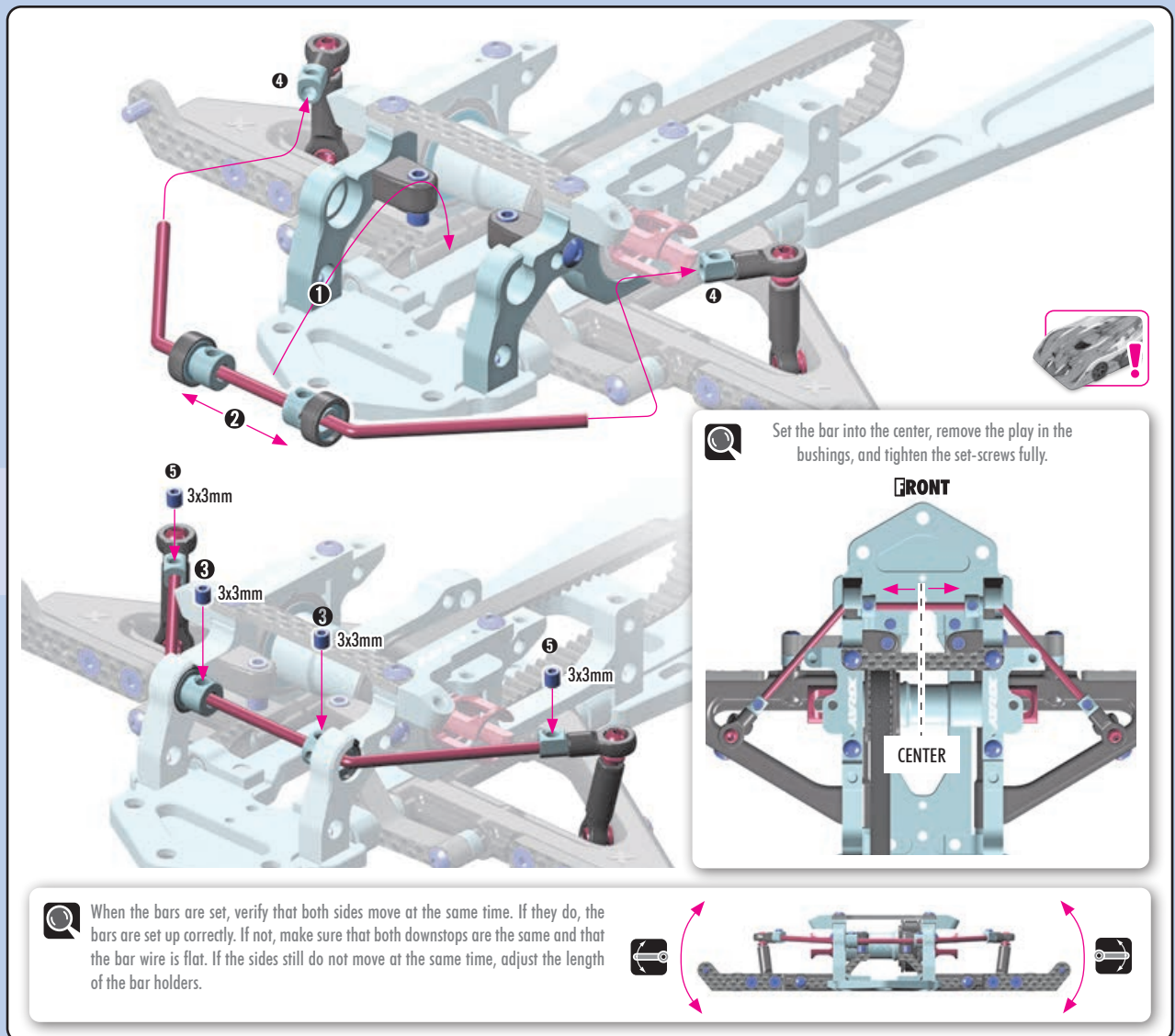


TIP Install with HUDY Multi Tool.



FRONT ANTI-ROLL BARS			COLLARS	
#342480-S	2.0mm	OPTION	#333443 + 343483-K	
#342482-S	2.2mm	OPTION	OPTION	
#342483-S	2.3mm	OPTION	#333442 + 343484-K	
#342484-S	2.4mm	INCLUDED	INCLUDED	
#342485-S	2.5mm	OPTION	#333442 + 343482-K	
#342486-S	2.6mm	OPTION	OPTION	
#342488-S	2.8mm	OPTION	#333441 + 343485-K	
			OPTION	

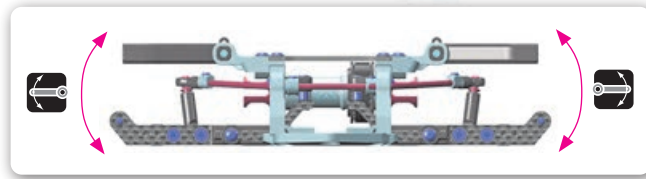
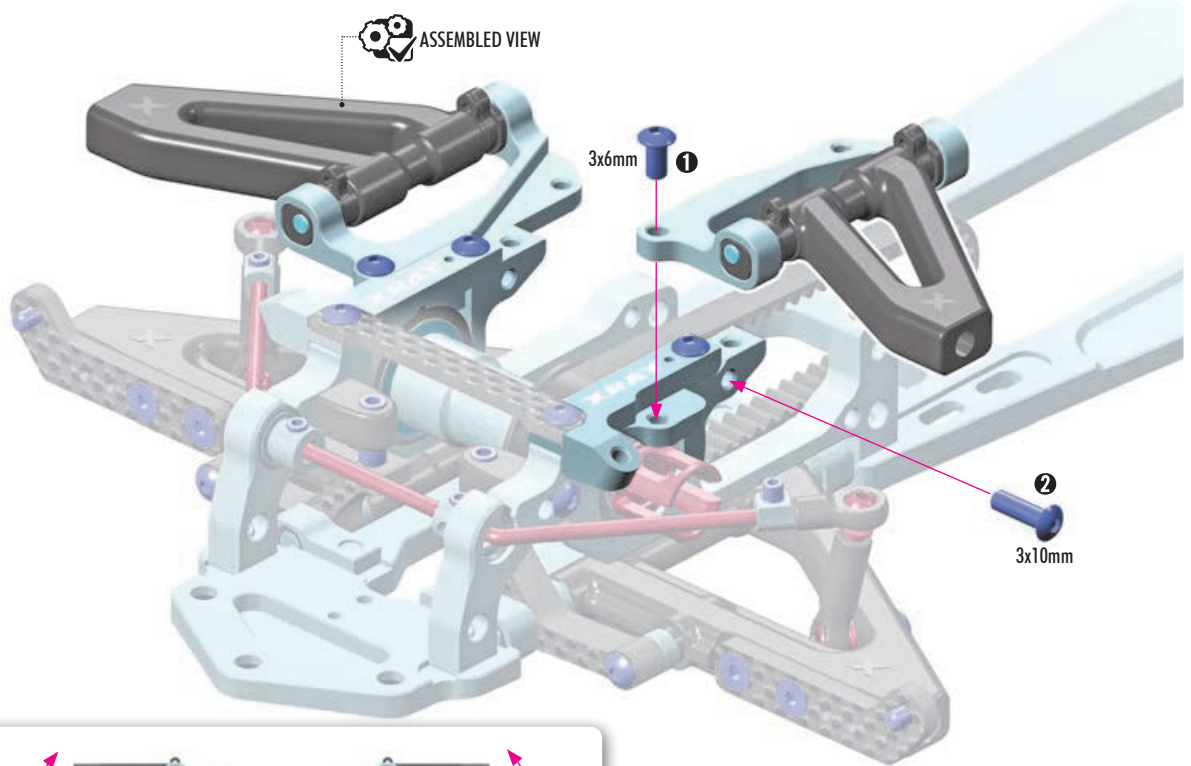




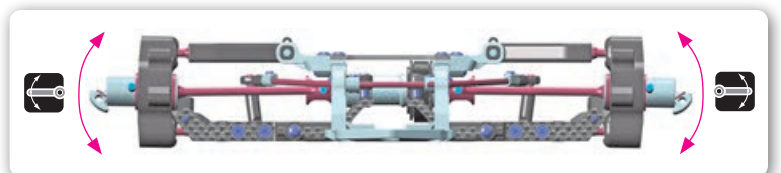
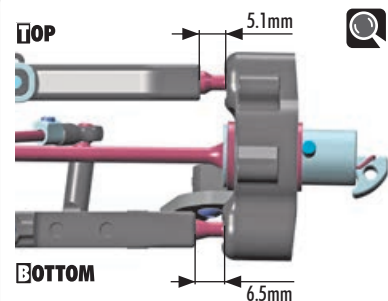
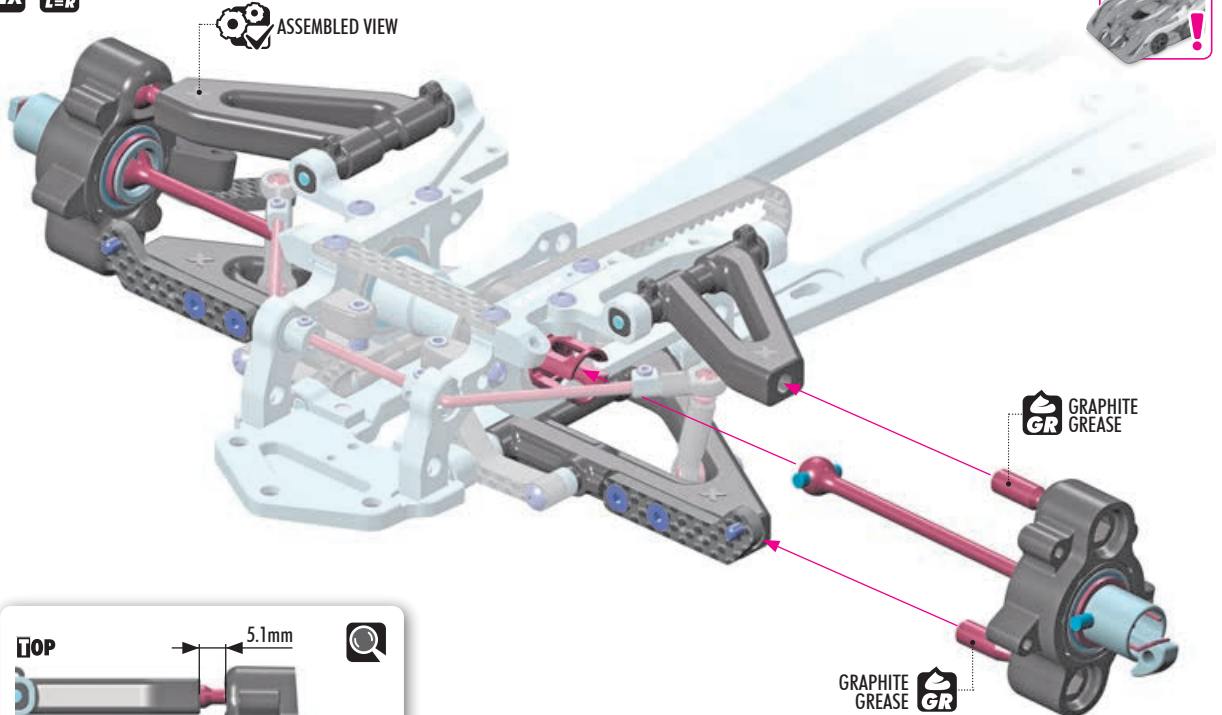
7. FRONT SUSPENSION



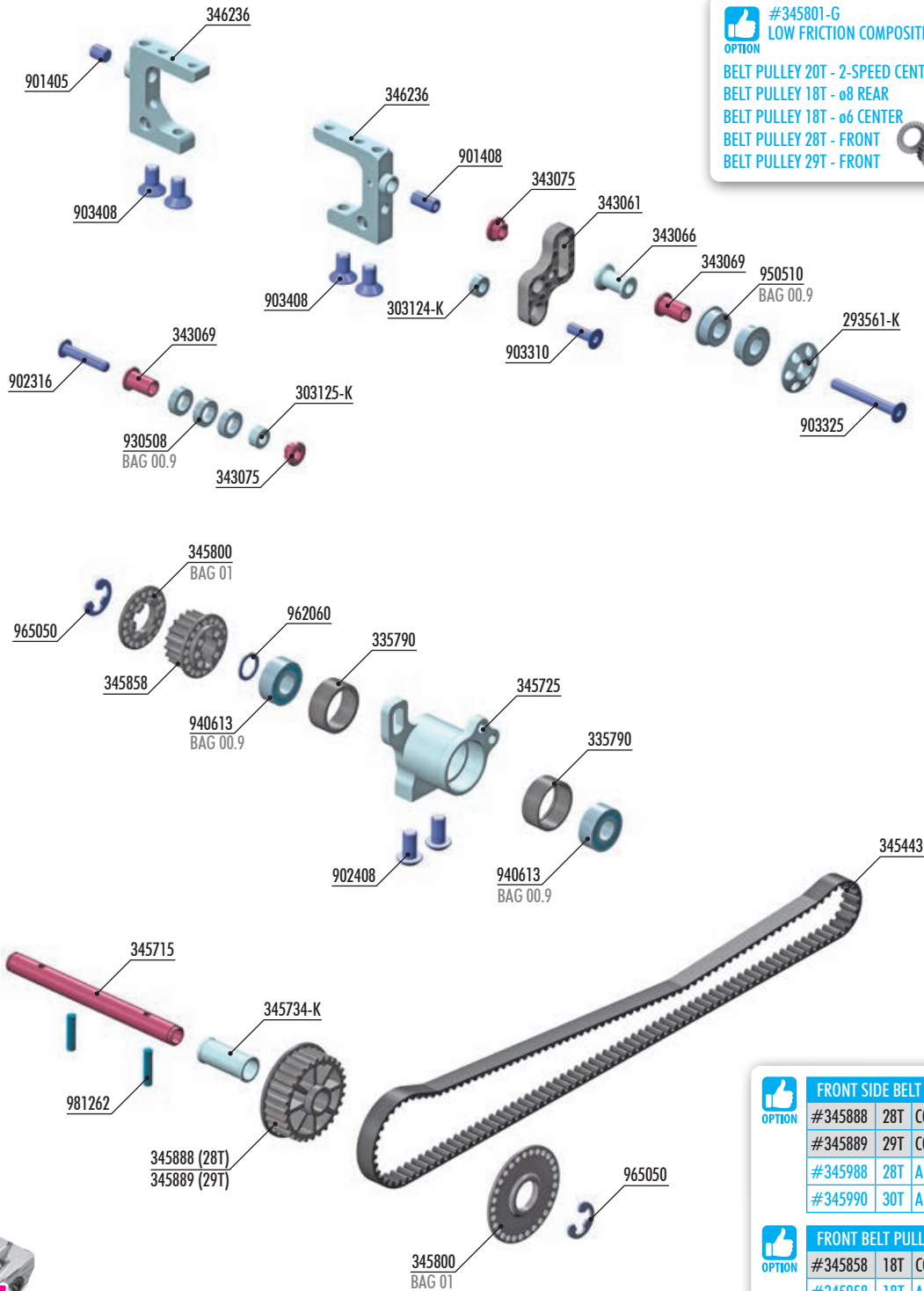
2x SPECIFIC ORDER STEPS



2x



8. CENTER TRANSMISSION



#345801-G
LOW FRICTION COMPOSITE BELT PULLEY SET - GRAPHITE
OPTION
 BELT PULLEY 20T - 2-SPEED CENTER
 BELT PULLEY 18T - ø8 REAR
 BELT PULLEY 18T - ø6 CENTER
 BELT PULLEY 28T - FRONT
 BELT PULLEY 29T - FRONT

FRONT SIDE BELT PULLEY				
#345888	28T	COMP.	INCLUDED	
#345889	29T	COMP.	INCLUDED	
#345988	28T	ALU	OPTION	
#345990	30T	ALU	OPTION	

FRONT BELT PULLEY CENTER				
#345858	18T	COMP.	INCLUDED	
#345958	18T	ALU	OPTION	



BAG
08

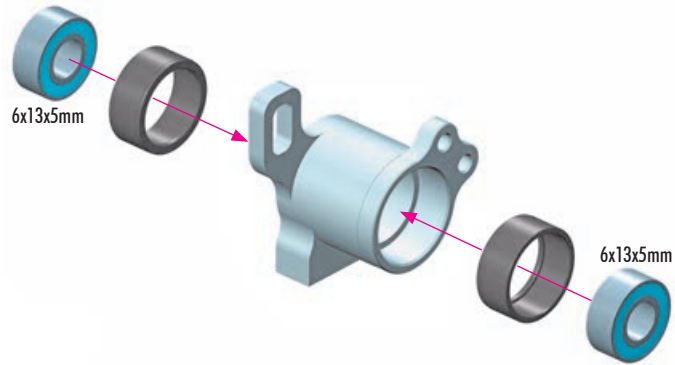
- | | | | |
|----------|---|--------|--|
| 293561-K | HUDY ALU REAR WING SHIM - BLACK (2) | 901405 | HEX SCREW SB M4x5 (10) |
| 303124-K | ALU SHIM 3x6x2.5mm - BLACK (10) | 901408 | HEX SCREW SB M4x8 (10) |
| 303125-K | ALU SHIM 3x6x3.0mm - BLACK (10) | 902316 | HEX SCREW SH M3x16 (10) |
| 335790 | COMPOSITE BALL-BEARING BUSHING FOR MIDDLE SHAFT (2) | 902408 | HEX SCREW SH M4x8 (10) |
| 343061 | RX8E BELT TENSIONER | 903310 | HEX SCREW SFH M3x10 (10) |
| 343066 | ALU BUSHING 10mm - SWISS 7075 T6 | 903325 | HEX SCREW SFH M3x25 (10) |
| 343069 | STEEL BUSHING (2) | 903408 | HEX SCREW SFH M4x8 (10) |
| 343075 | STEEL NUT (2) | 930508 | BALL-BEARING 5x8x2.5 STEEL SEALED - OIL (2) |
| 345443 | LOW FRICTION DRIVE BELT SIDE 6.0 x 435mm | 940613 | BALL-BEARING 6x13x5 RUBBER SEALED - OIL (2) |
| 345715 | RX8E FRONT MIDDLE SHAFT - HUDY SPRING STEEL™ | 950510 | BALL-BEARING 5x10x4 FLANGED - STEEL SEALED - OIL (2) |
| 345725 | ALU FRONT MIDDLE SHAFT HOLDER - BLACK - SWISS 7075 T6 | 962060 | WASHER S 6x8x0.5 (10) |
| 345734-K | ALU MIDDLE SHAFT LOCATING COLLAR 6x8x17mm - BLACK | 965050 | E-CLIP 5 (10) |
| 345800 | COMPOSITE BELT PULLEY COVER SET | 981262 | PIN 2.5x12 (10) |
| 345858 | COMPOSITE FRONT BELT PULLEY 18T ø6 - CENTER | | |
| 345888 | COMPOSITE SIDE BELT PULLEY 28T - FRONT | | |
| 345889 | COMPOSITE SIDE BELT PULLEY 29T - FRONT | | |
| 346236 | ALU RADIO PLATE MOUNT - BLACK - SWISS 7075 T6 (2) | | |

Numbers in parentheses () refer to quantities when purchased separately.

8. CENTER TRANSMISSION



2x 940613
BB 6x13x5



1x 962060
SHIM 6x8x0.5

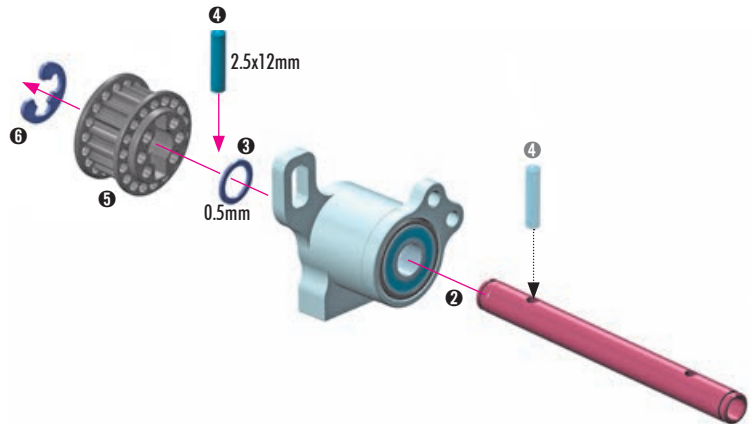
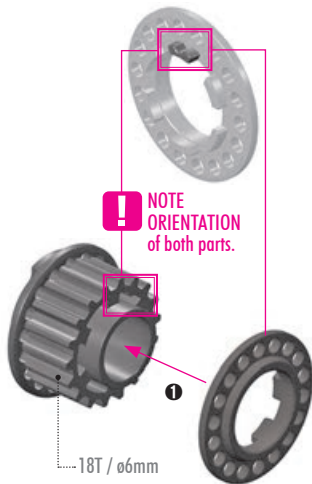


1x 965050
C5

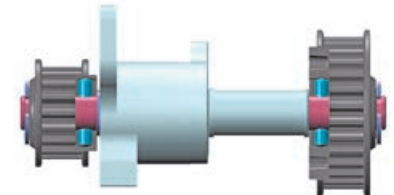


1x 981262
P 2.5x12

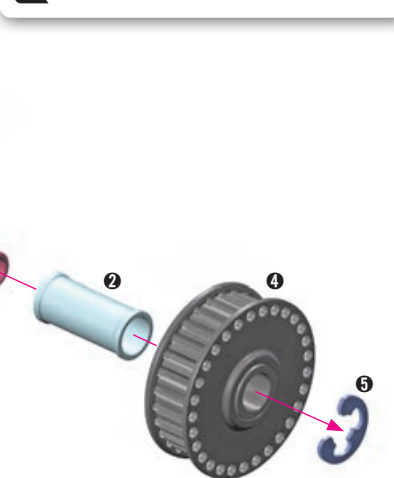
1 2 3 SPECIFIC ORDER STEPS



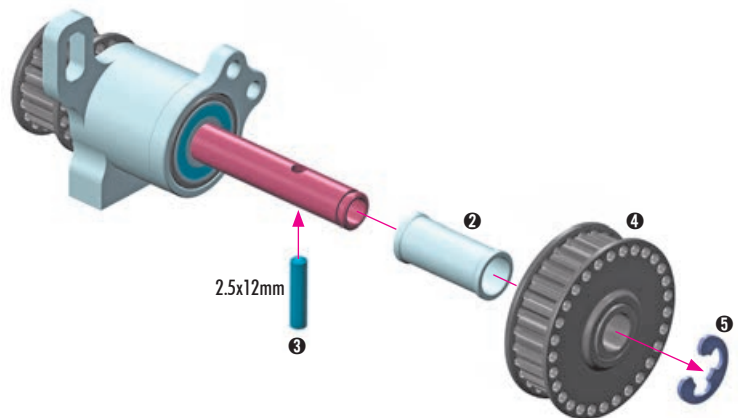
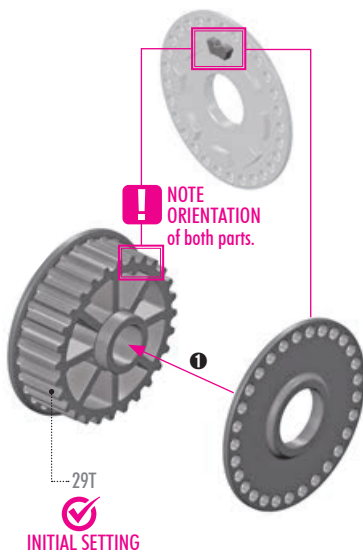
ASSEMBLED VIEW



CUTTAWAY VIEW



1 2 3 SPECIFIC ORDER STEPS



8. CENTER TRANSMISSION



1x 303125-K
SHIM 3x6x3



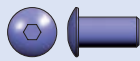
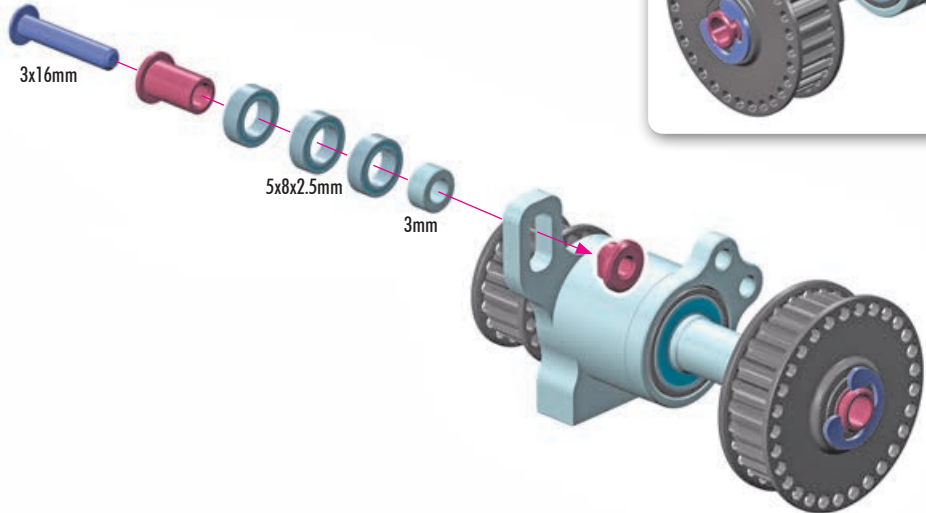
1x 902316
SH M3x16



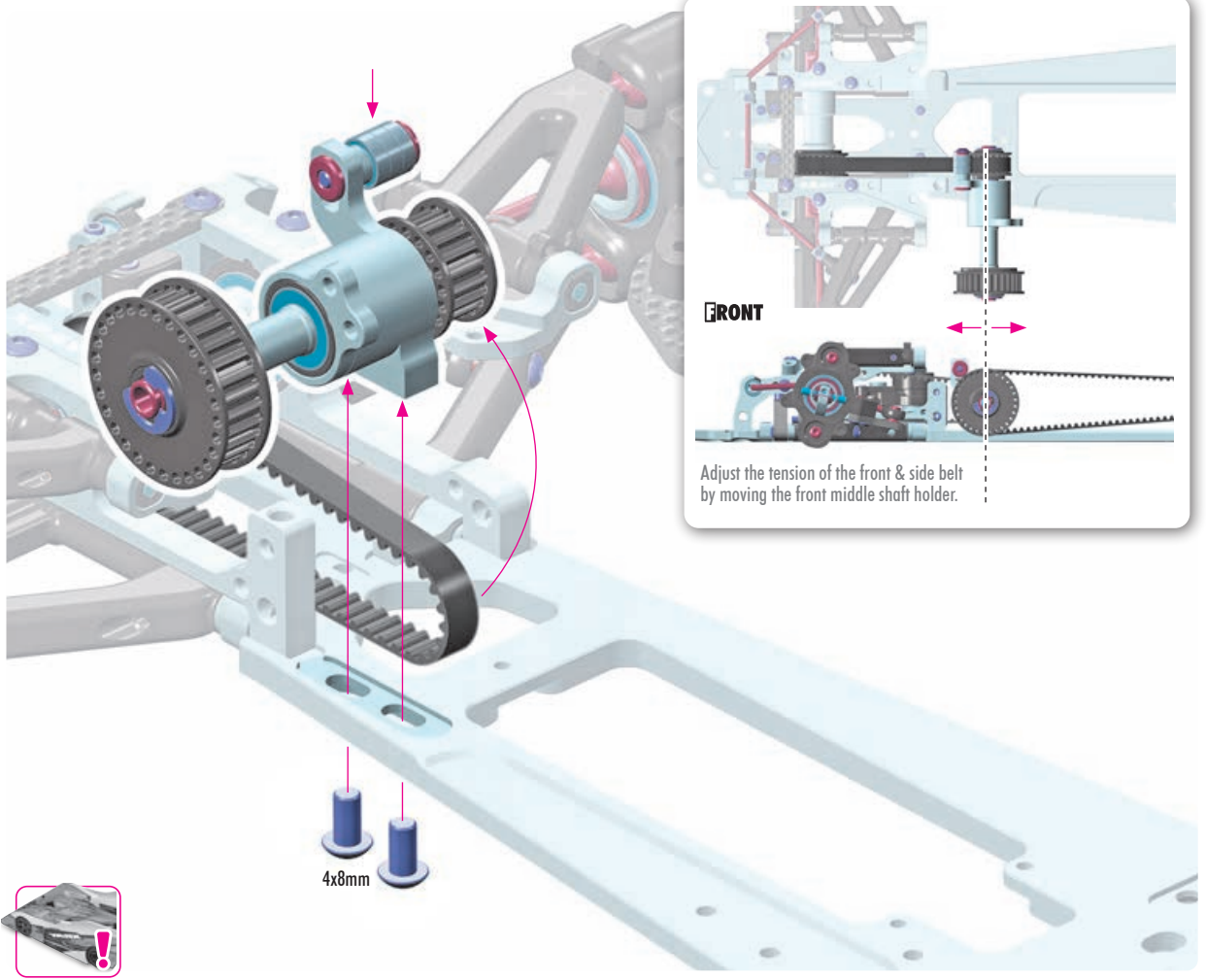
3x 930508
BB 5x8x2.5



ASSEMBLED VIEW



2x 902408
SH M4x8



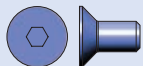
8. CENTER TRANSMISSION



1x 901405
SB M4x5

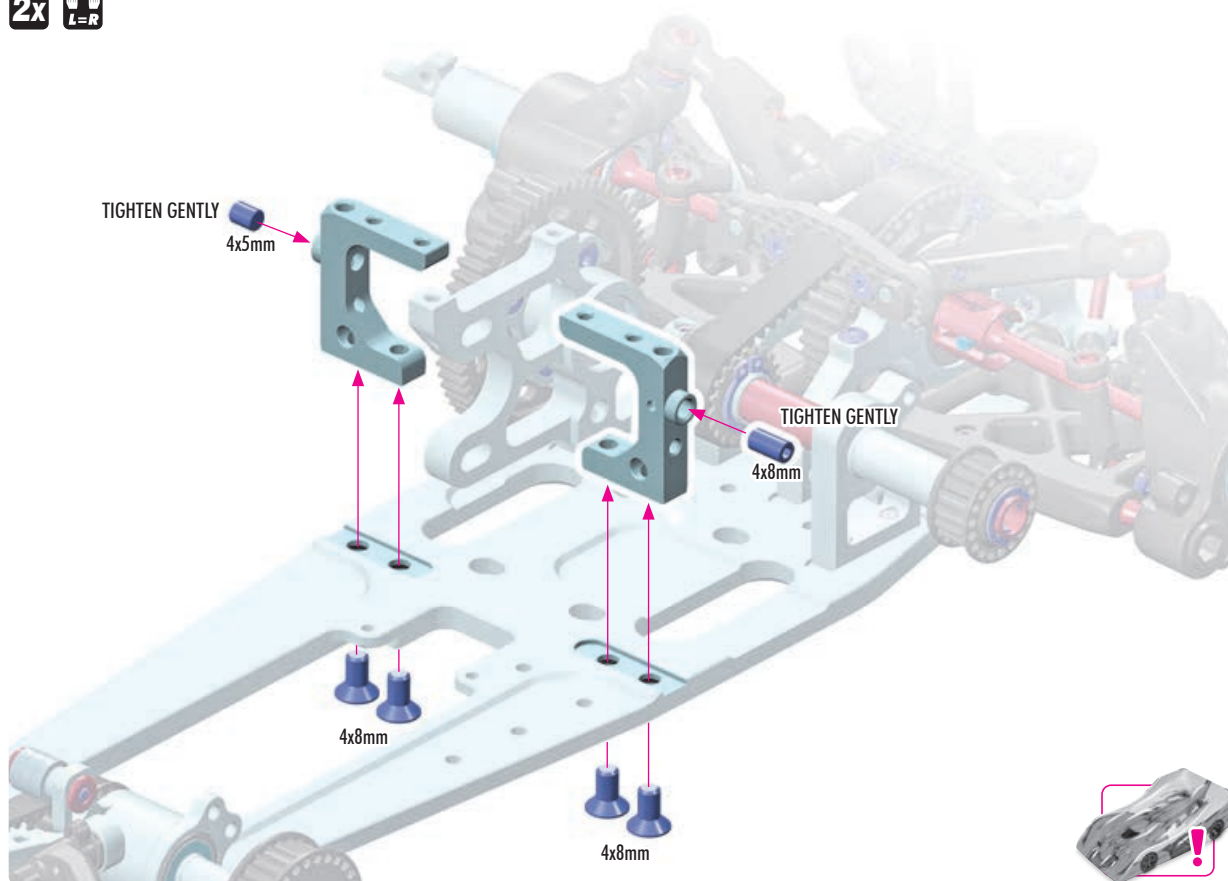


1x 901408
SB M4x8



4x 903408
SFH M4x8

2x



1x 303124-K
SHIM 3x6x2.5



1x 903310
SFH M3x10

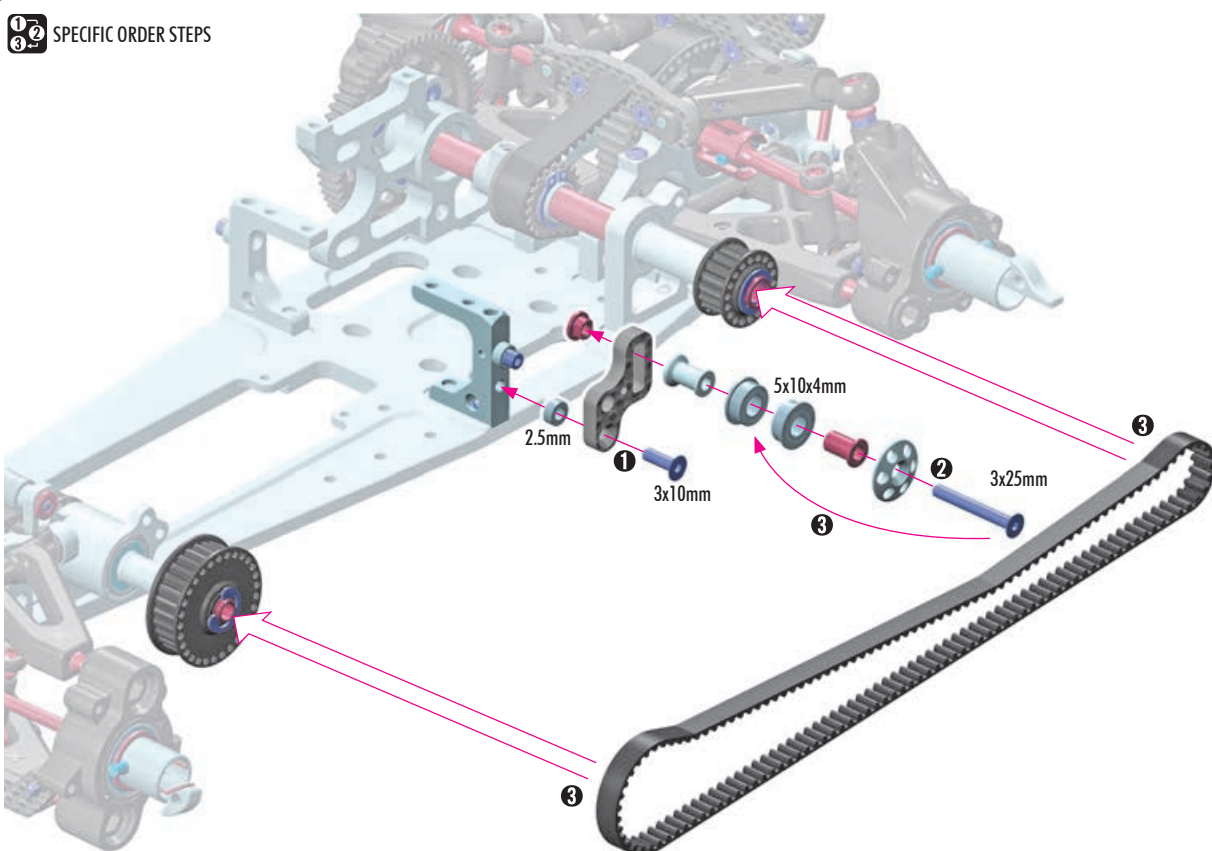


1x 903325
SFH M3x25

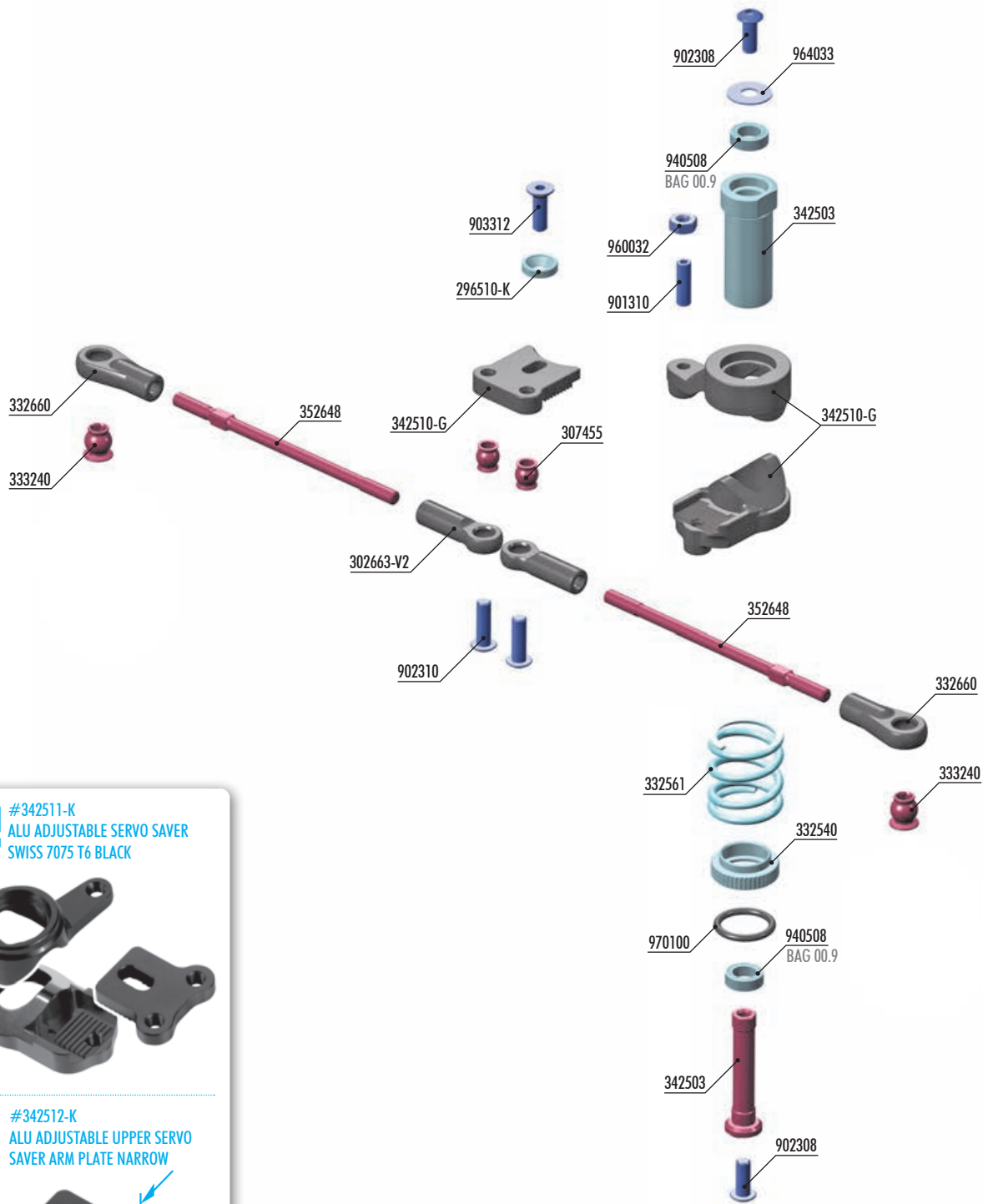


2x 950510
BB 5x10x4

SPECIFIC ORDER STEPS



9. SERVO SAVER & STEERING



#342511-K
ALU ADJUSTABLE SERVO SAVER
SWISS 7075 T6 BLACK



#342512-K
ALU ADJUSTABLE UPPER SERVO
SAVER ARM PLATE NARROW



BAG

09

296510-K ALU COUNTERSUNK SHIM - BLACK (4)
302663-V2 COMPOSITE BALL JOINT 4.9mm - OPEN - V2 (8)
307455 PIVOT BALL 4.9mm DOUBLE BEVEL SHOULDERS (10)
332540 ALU SERVO SAVER ADJUSTABLE NUT
332561 SERVO SAVER SPRING C=14
332660 COMPOSITE STEERING & SERVO BALL JOINT 5.8mm (4+2)
333240 BALL UNIVERSAL 5.8mm HEX (4)
342503 SERVO SAVER COMPLETE SET - LOWER - GRAPHITE
342510-G COMPOSITE SERVO SAVER - GRAPHITE
352648 ADJ. TURNBUCKLE M3 L/R 62mm - HUDY SPRING STEEL (2)

901310 HEX SCREW SB M3x10 (10)
902308 HEX SCREW SH M3x8 (10)
902310 HEX SCREW SH M3x10 (10)
903312 HEX SCREW SFH M3x12 (10)
940508 BALL-BEARING 5x8x2.5 RUBBER SEALED - OIL (2)
960032 NUT M3 - BLACK (10)
964033 WASHER S 3.5x10x0.3 (10)
970100 O-RING 10 x 1.5 (10)

Numbers in parentheses () refer to quantities when purchased separately.

XRAY

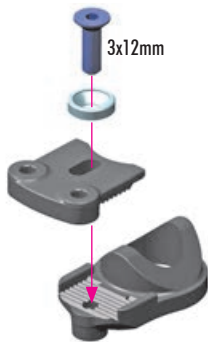
9. SERVO SAVER & STEERING

1x 901310
SB M3x10

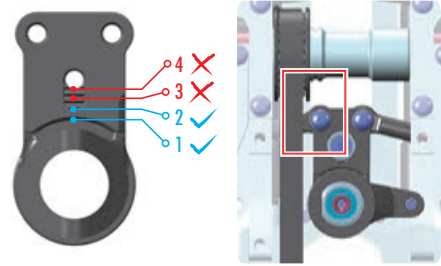
1x 903312
SFH M3x12

1x 960032
N M3

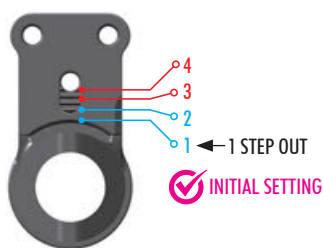
1x 970100
O 10x1.5



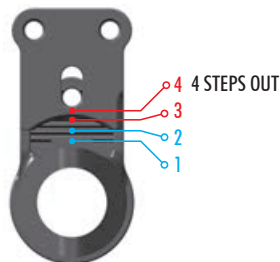
! USE ONLY ACKERMANN POSITIONS 1 OR 2.
Ackermann positions 3 or 4 require modifying the ball joint and one-way pulley for added clearance, but may reduce reliability.



THERE ARE 4 DIFFERENT ACKERMANN SETTINGS POSSIBLE WITH THE QUICK-SAVER™
For initial Ackermann setting, use Step 1 (2nd shortest length).



STEP 1 gives the most Ackermann and makes the car understeer more into & out of corners. It offers good cornering speed and creates very good traction mainly in chicanes, because the car will be more stable.
Recommended for tracks with long sweepers where a lot of cornering speed is needed.



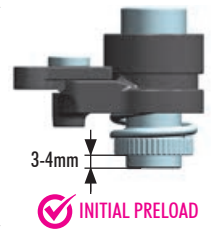
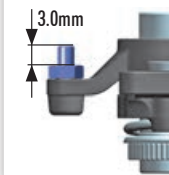
STEP 4 gives the least Ackermann and creates a lot of steering into & out of corners. However, the car is more difficult to drive in chicanes because there is less traction and stability.
Recommended for tracks where a lot of in-corner steering is needed.



STEP 1 DETAIL



INITIAL SETTING



2x L=R

RIGHT THREAD

LEFT THREAD

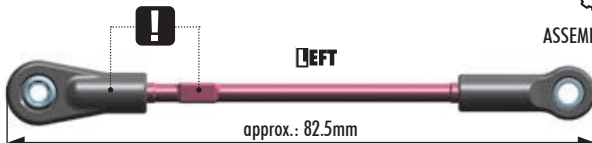
TIP
Install with HUDY Ball Joint Tool.

LEFT THREAD

RIGHT THREAD

TIP
Install with HUDY Multi Tool.

NOTE ORIENTATION




ASSEMBLED VIEW

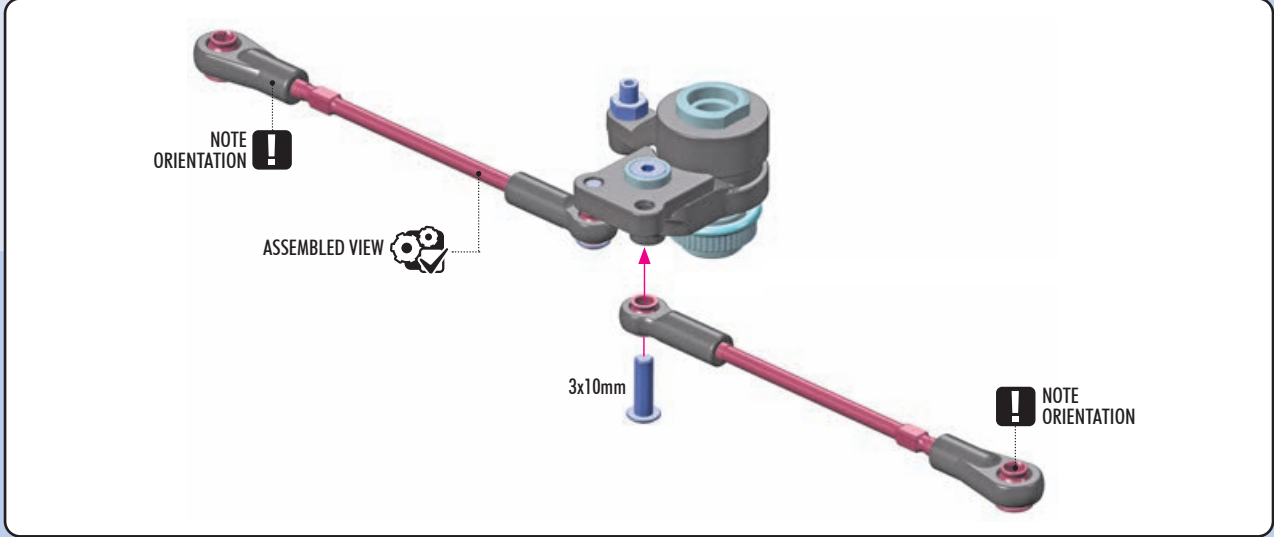
NOTE ORIENTATION



9. SERVO SAVER & STEERING



2x 902310
SH M3x10





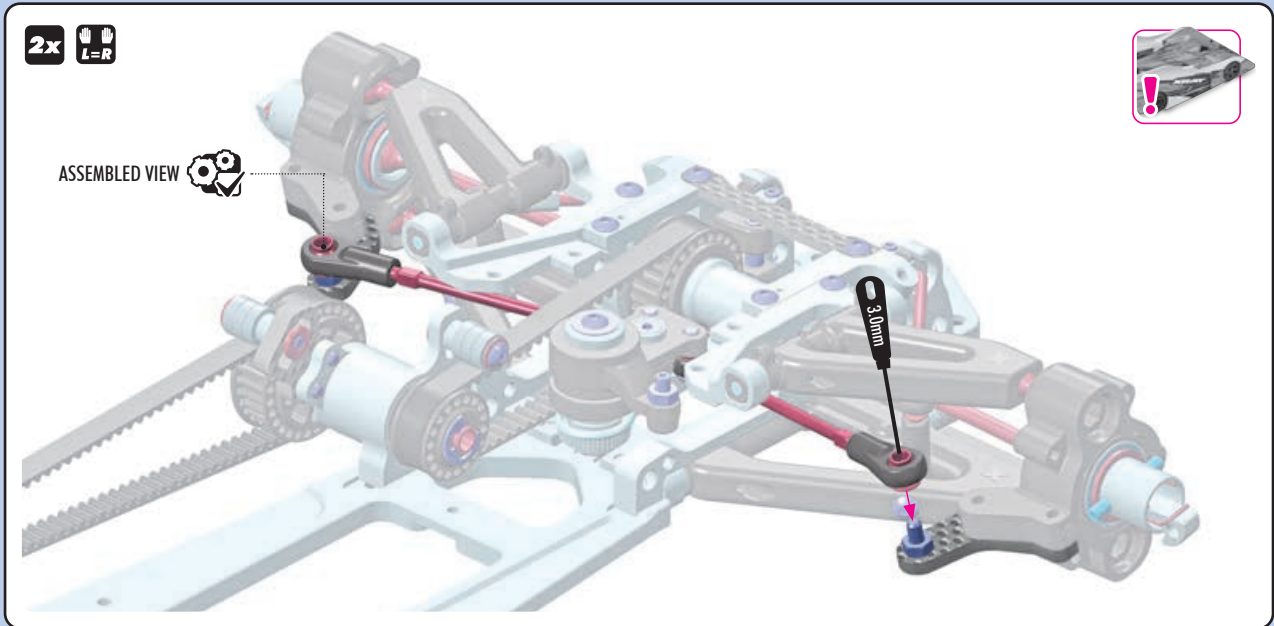
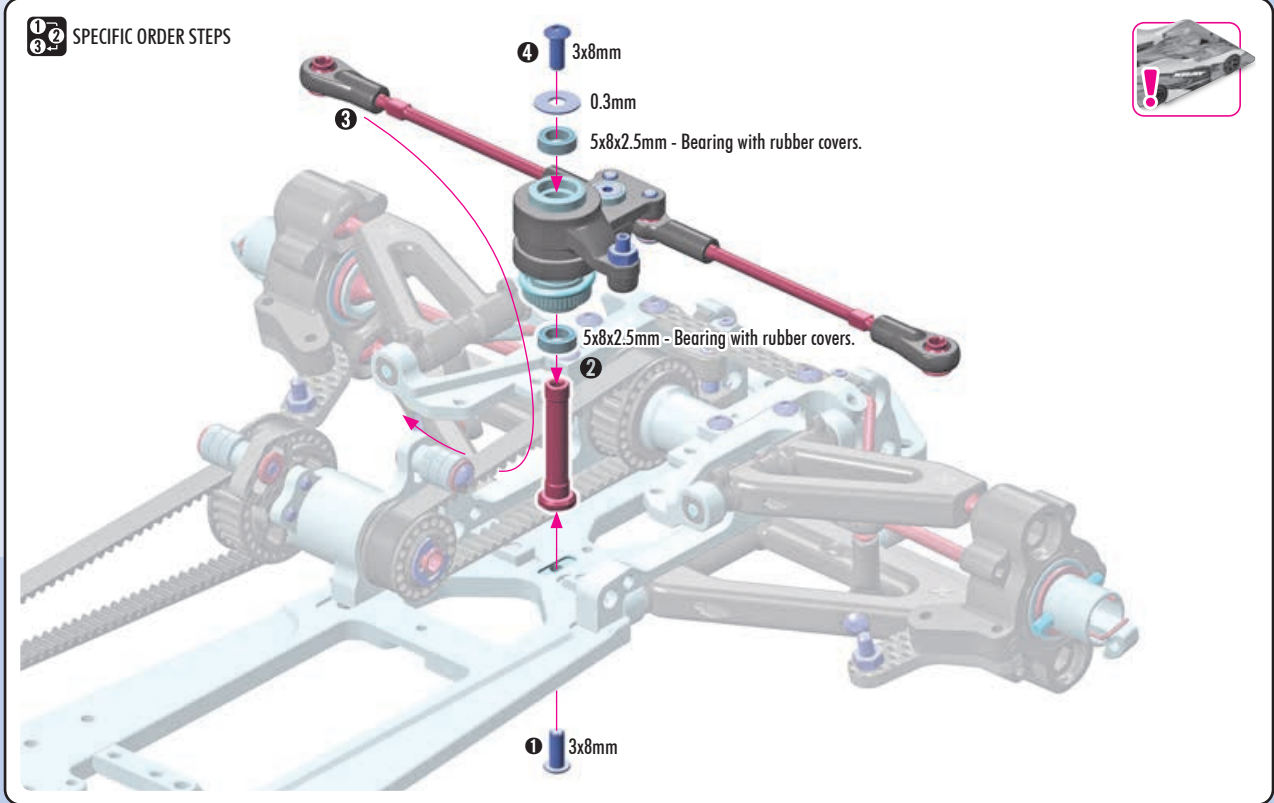
2x 902308
SH M3x8

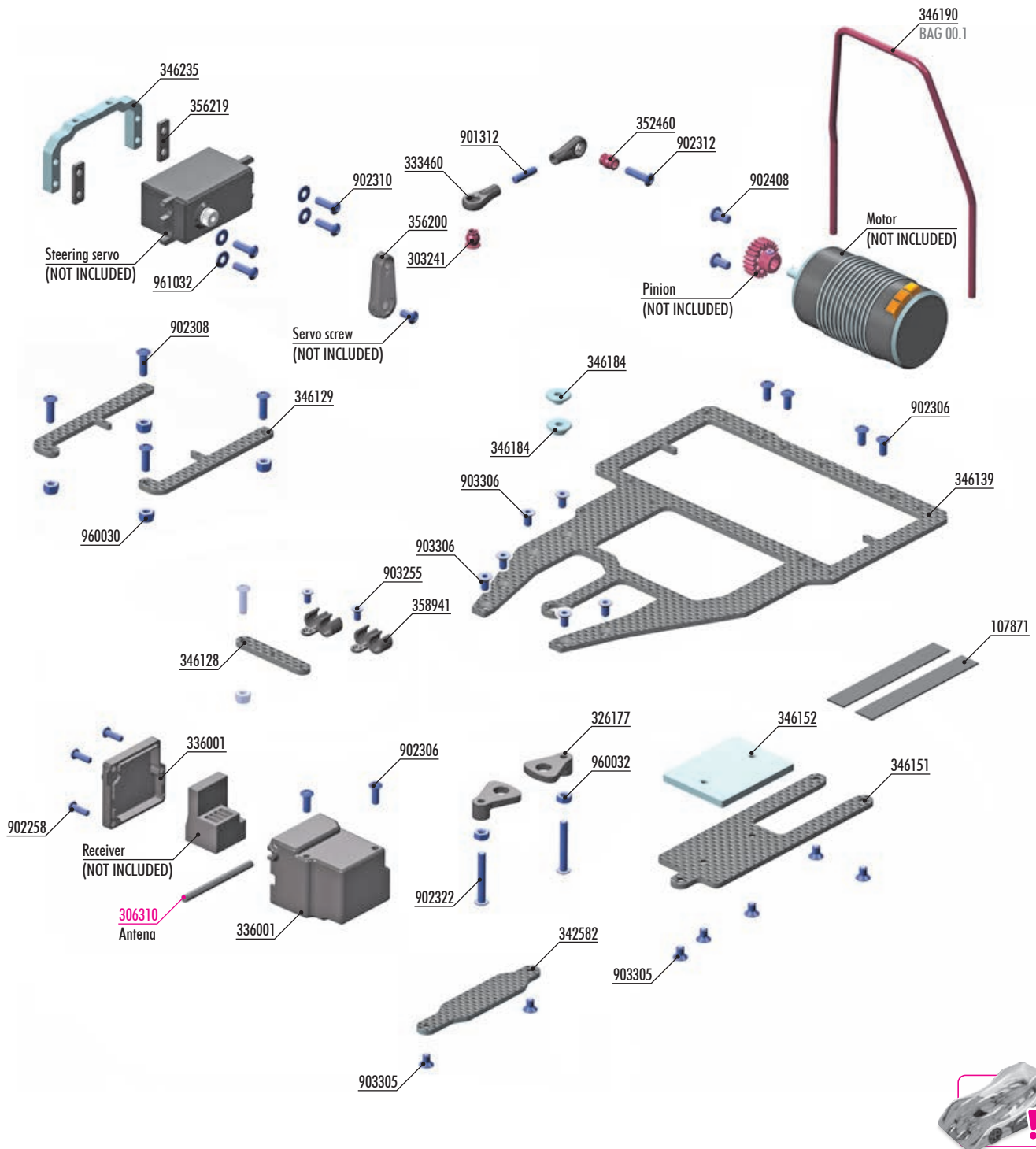


2x 940508
BB 5x8x2.5



1x 964033
S 3.5x10x0.3





BAG

10

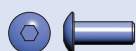
107871 SELF-ADHESIVE FOAM STRIP (2)
 303241 BALL UNIVERSAL 5.8mm HEX (4)
 326177 COMPOSITE BATTERY CLAMP (2)
 333460 COMPOSITE BALL JOINT 5.8mm (4)
 336001 COMPOSITE RECEIVER CASE - COMPACT SIZE
 342582 CARBON FRONT CHASSIS PLATE
 346128 CARBON CABLE HOLDER
 346129 CARBON BATTERY HOLDER (2)
 346139 CARBON RADIO PLATE FOR SHORTY & MID-SIZE BATTERY
 346151 CARBON CENTER CHASSIS PLATE
 346152 ALU PLATE FOR SPEEDO - SWISS 7075 T6
 346184 ALU BUSHING FOR RADIO PLATE FLEX - HARD COATED (1+1)
 346190 ROLL-OVER BAR
 346235 ALU MONOBLOCK SERVO HOLDER - BLACK - SWISS 7075 T6
 352460 PIVOT BALL 5.8 (10)
 356200 BRAKE/THROTTLE ARMS & STEERING SERVO ARMS - SET
 356219 COMPOSITE SERVO SHIMS 1.0, 1.5 & 2.5mm (2+2+2)
 358941 COMPOSITE TUBING HOLDER FOR FUEL TANK (2)

901312 HEX SCREW SB M3x12 (10)
 902258 HEX SCREW SH M2.5x8 (10)
 902306 HEX SCREW SH M3x6 (10)
 902308 HEX SCREW SH M3x8 (10)
 902310 HEX SCREW SH M3x10 (10)
 902312 HEX SCREW SH M3x12 (10)
 902322 HEX SCREW SH M3x22 (10)
 902408 HEX SCREW SH M4x8 (10)
 903255 HEX SCREW SFH M2.5x5 (10)
 903305 HEX SCREW SFH M3x5 (10)
 903306 HEX SCREW SFH M3x6 (10)
 960030 NUT M3 (10)
 960032 NUT M3 - BLACK (10)
 961032 WASHER S 3.2 (10)

306310 ANTENNA TUBE (2)

Numbers in parentheses () refer to quantities when purchased separately.

10. ELECTRONICS



4x 902308
SH M3x8



2x 902322
SH M3x22

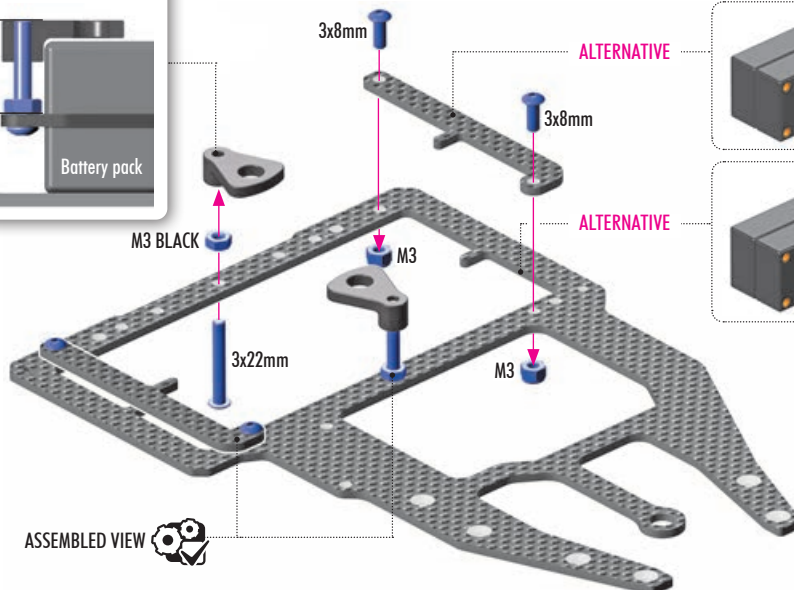
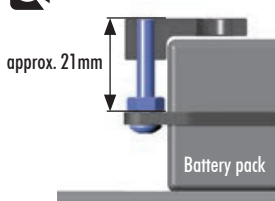


4x 960030
N M3



2x 960032
N M3

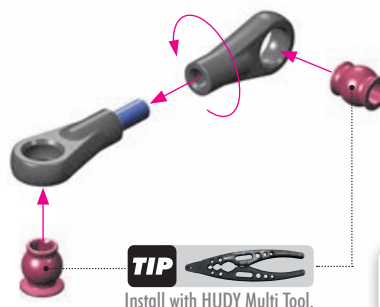
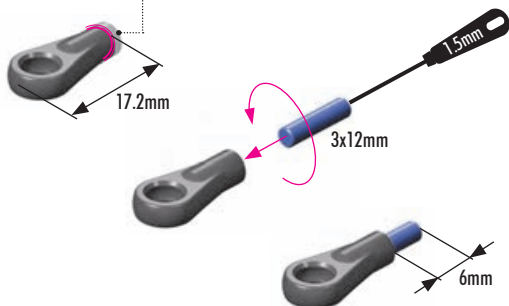
CUTTAWAY VIEW



ASSEMBLED VIEW

2x

Shorten TWO ball joints.



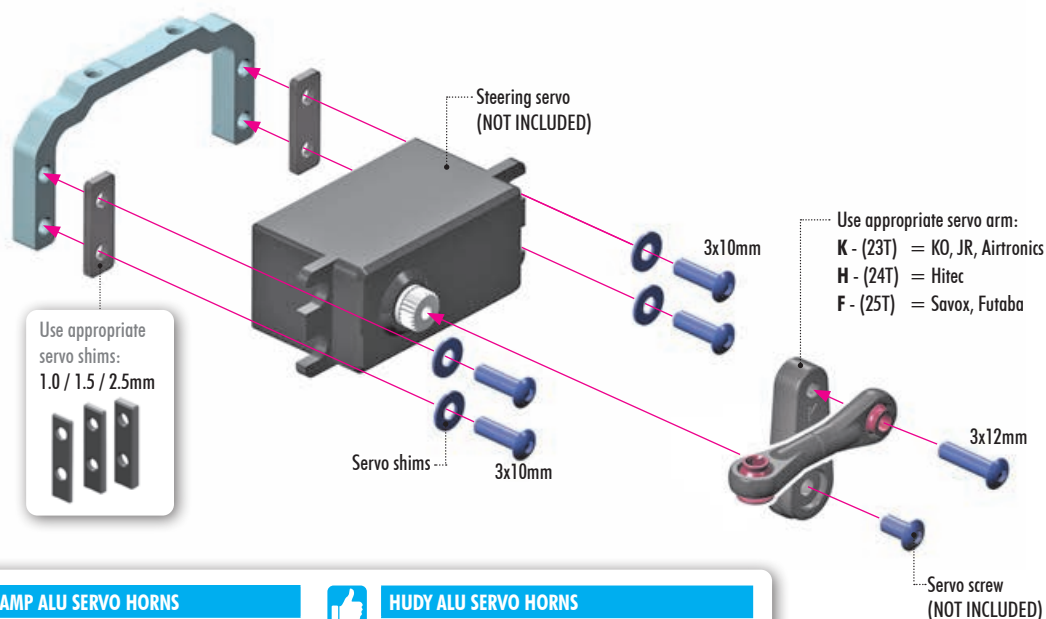
4x 902310
SH M3x10



1x 902312
SH M3x12

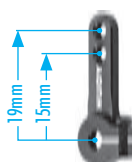


4x 961032
S 3.2



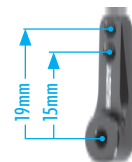
HUDY CLAMP ALU SERVO HORNS

#293404	23T	KO, Sanwa
#293405	24T	Hitec
#293406	25T	Futaba



HUDY ALU SERVO HORNS

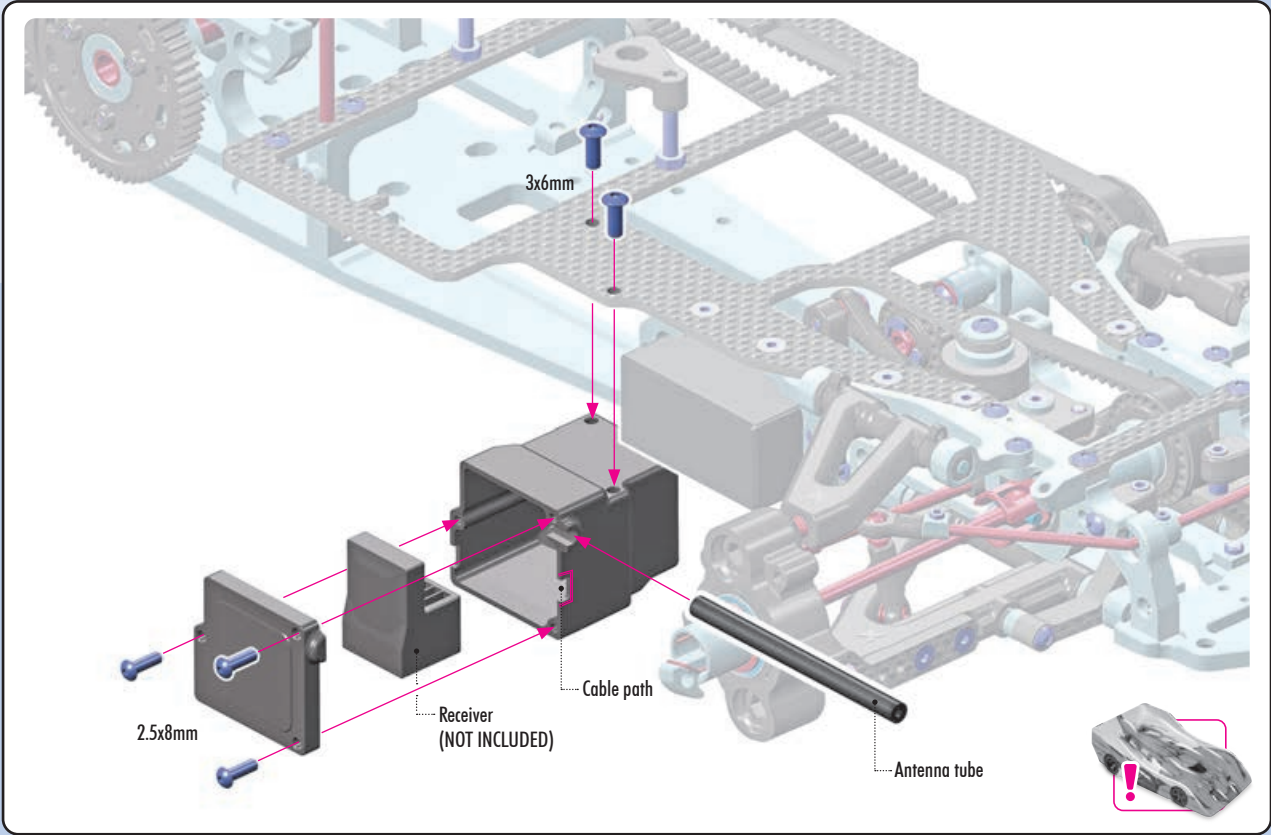
#293497	23T	KO, Sanwa
#293498	24T	Hitec
#293499	25T	Futaba



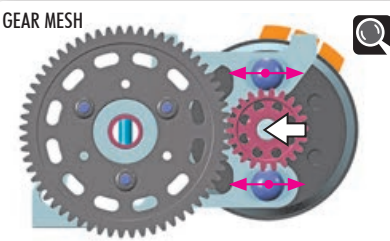
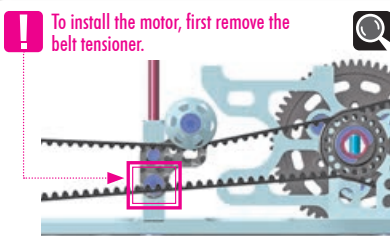
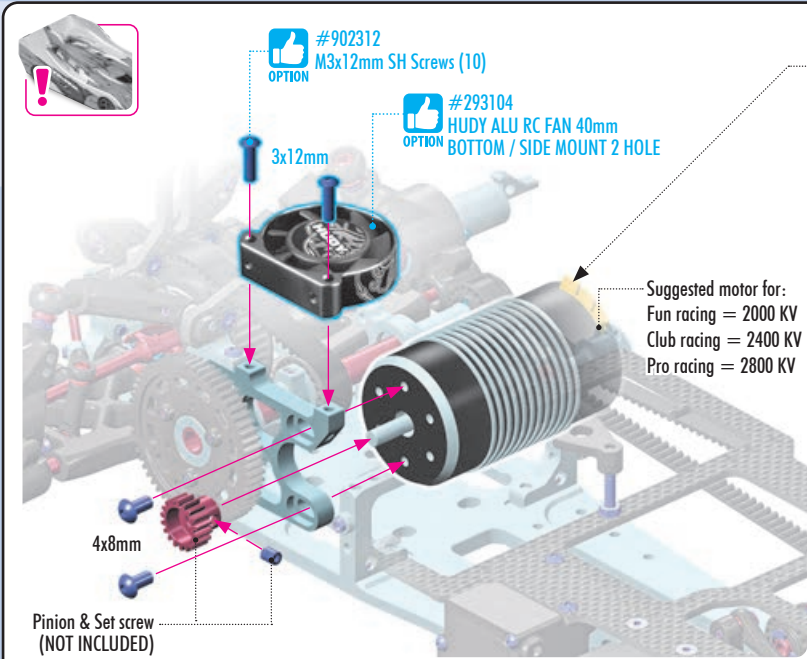
10. ELECTRONICS

3x 902258
SH M2.5x8

2x 902306
SH M3x6

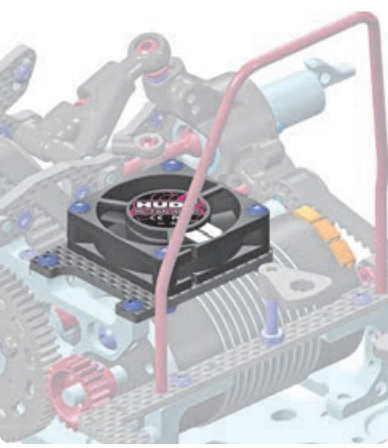
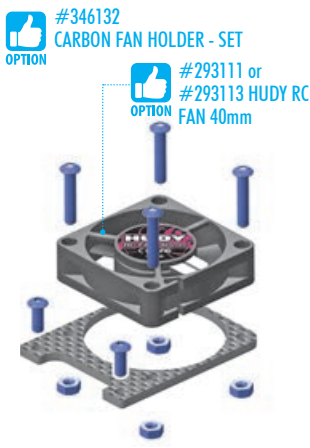


2x 902408
SH M4x8

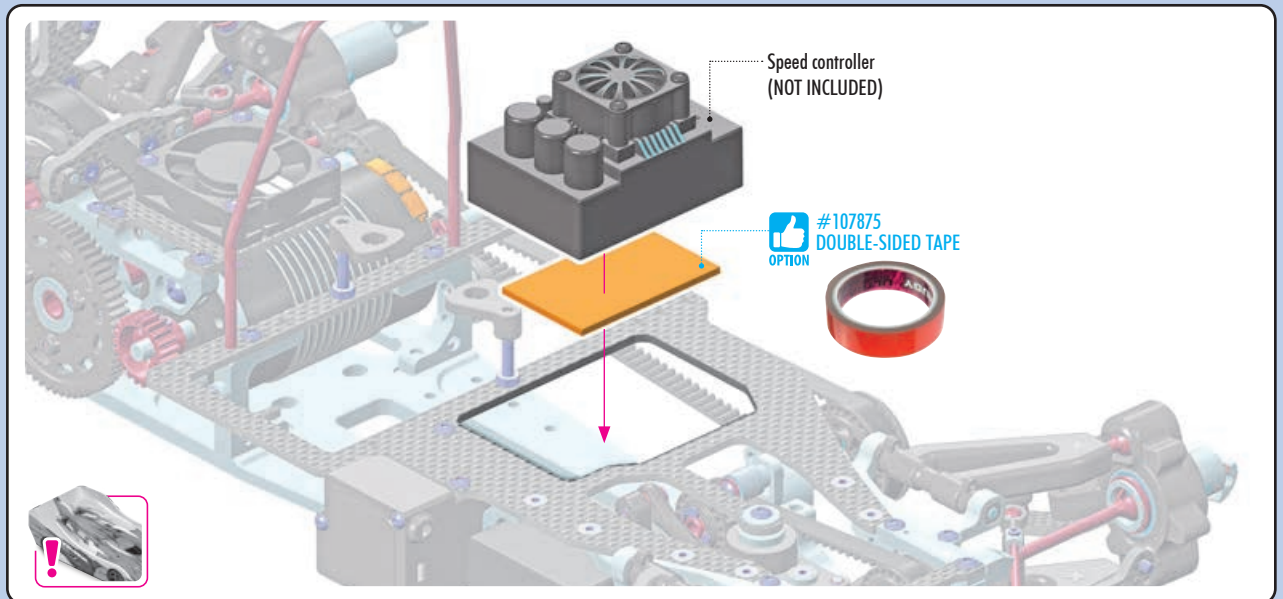
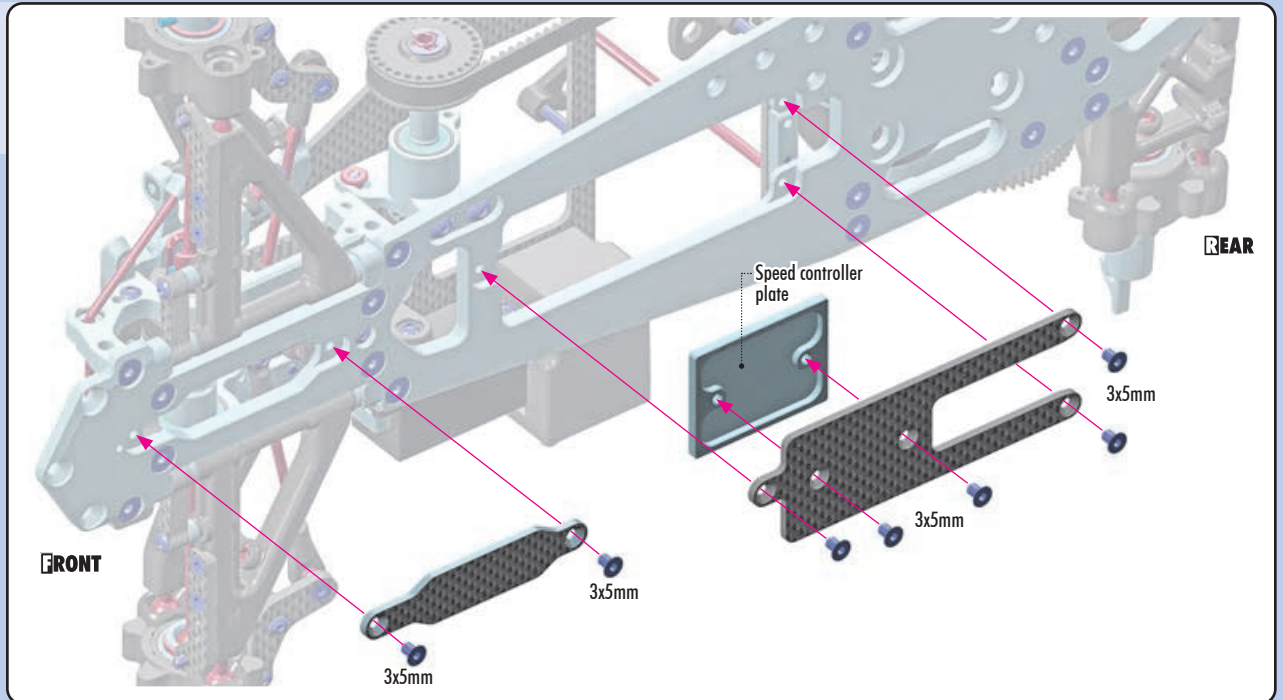


GEAR RATIO Final Drive Ratio 60 : X = FDR
(Spur) (Pinion)

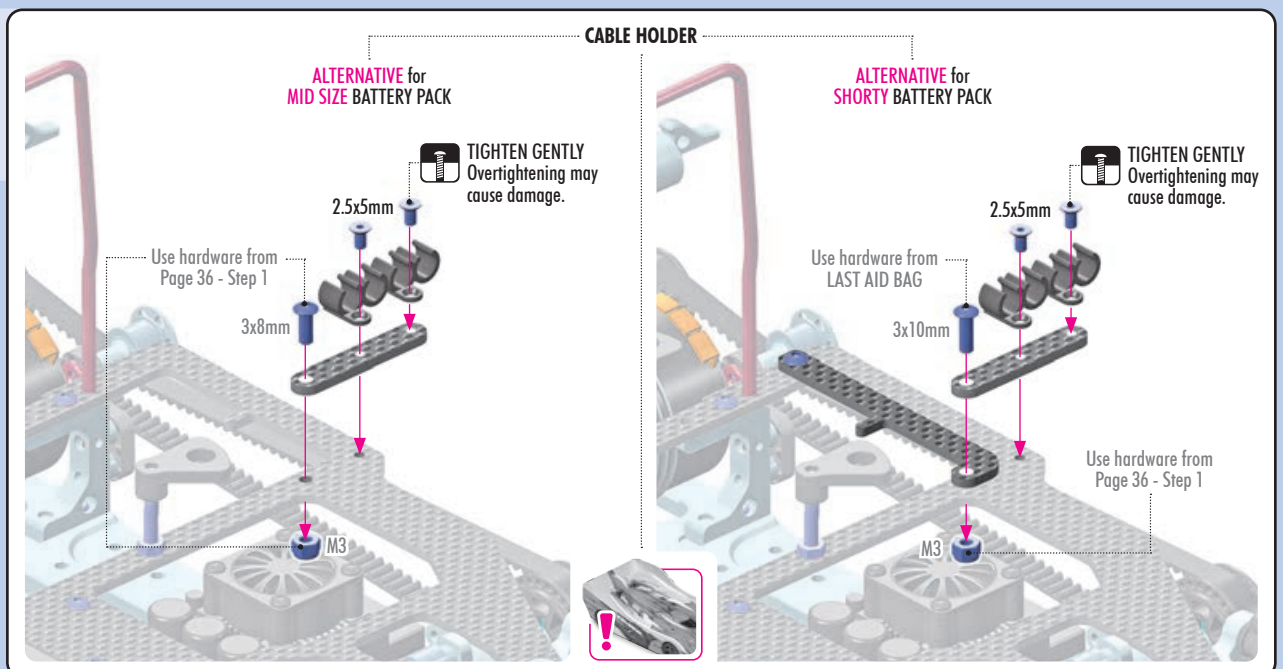
OPTION	ALU PINIONS (Mod 0.8)	OPTION	STEEL PINIONS (Mod 0.8)
	#294253 13T		#294213 13T
	#294254 14T		#294214 14T
	#294255 15T		#294215 15T
	#294256 16T		#294216 16T
	#294257 17T		#294217 17T
	#294258 18T		#294218 18T
	#294259 19T		#294219 19T
	#294260 20T		#294220 20T
	#294261 21T		#294221 21T
	#294262 22T		#294222 22T
	#294263 23T		#294223 23T
	#294264 24T		#294224 24T
	#294265 25T		#294225 25T



7x 903305
SFH M3x5



2x 903255
SFH M2.5x5



12. SHOCK ABSORBERS

308352-K, 303241, 308331, 308091 (OPTION), 308081, 965023, 965023, 338061, 308036, 338021, 972030, 308327-K, 308040-K, 970121, 308331, 303241, 308315, 348185, 348284

DO NOT USE CROSSED-OUT PARTS

#104002 or #104003
HUDY AIR VAC – VACUUM PUMP
ON-ROAD

OPTION

FRONT SPRINGS		
348184	C=7.0	OPTION
348185	C=7.5	INCLUDED
348186	C=8.0	OPTION
348187	C=8.5	OPTION
348188	C=7.0-9.0	OPTION
348189	C=10.0	OPTION

OPTION

REAR SPRINGS		
348283	C=5.0	OPTION
348284	C=5.6	INCLUDED
348285	C=6.3	OPTION

BAG 12

!
BAG 11
is NOT existing and
NOT included in
RX8E kit.

303241	BALL UNIVERSAL 5.8mm HEX (4)	338021	ALU SHOCK BODY (2)
308036	COMPOSITE NON-ADJUSTABLE PISTONS - DELRIN™ - V3	338061	HARDENED SHOCK SHAFT (2)
308040-K	SHOCK ADJ. NUT ALU + O-RING - BLACK (4)	965023	E-CLIP 2.3 (10)
308081	SHOCK ABSORBER MEMBRANE - LOW (4)	970121	O-RING 12.1x1.6 (10)
308091	SHOCK FOAM INSERTS - LOW (4) (OPTION)	972030	SILICONE O-RING 3x2 (10)
308315	COMPOSITE SHOCK BALL JOINT - LONG (4)	348185	XRAY SPRING-SET C=7.5 - FRONT (2)
308327-K	ALU CAP FOR XRAY SHOCK BODY - BLACK (2)	348284	XRAY SPRING-SET C=5.6 - REAR (2)
308331	COMPOSITE FRAME SHOCK PARTS 4-STEP - SHORT		
308352-K	ALU SHOCK CAP-NUT WITH HOLE - BLACK (2)		
338001-K	ALU SHOCK ABSORBER-SET - BLACK (2)		

Numbers in parentheses () refer to quantities when purchased separately.

8x 965023
C2.3

4x

FRONT

1.0 INITIAL SETTING

1.1

1.2

REAR

1.0

1.1 INITIAL SETTING

1.2

4x 972030
O 3x2

4x

SHOCK OIL

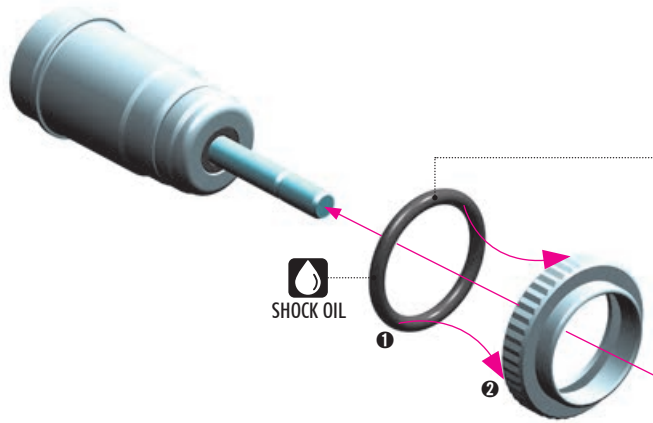
NOTE ORIENTATION

12. SHOCK ABSORBERS



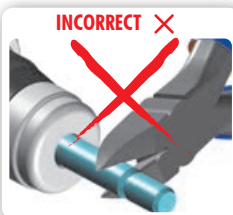
4x 970121
0 12.1x1.6

4x

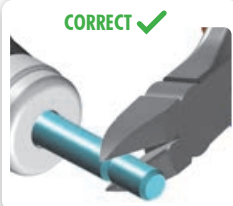


SHOCK OIL

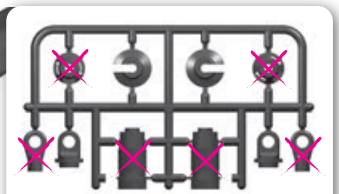
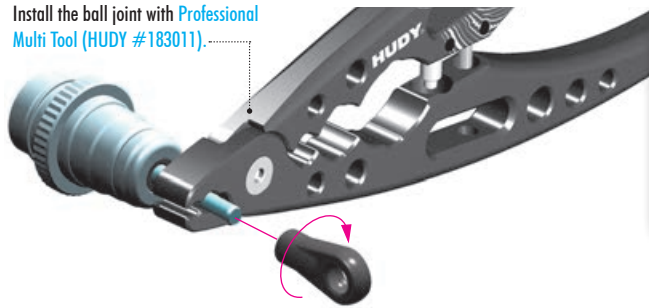
Be careful not to cross-thread the collar on the shock body.



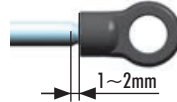
CORRECT ✓



Install the ball joint with Professional Multi Tool (HUDY #183011).



DO NOT USE CROSSED-OUT PARTS

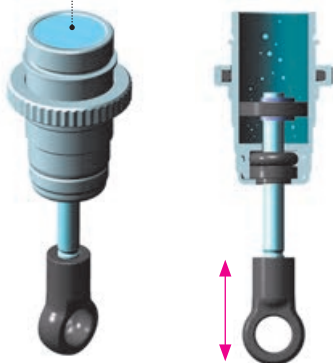


HINT: Pre-thread the ball joint using an M3 screw.

WARNING! Be careful not to pre-thread too far, since the ball joint may split or the plastic threads may strip out.

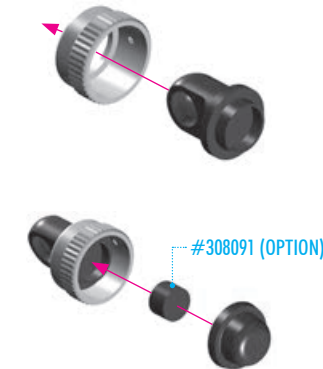
4x

SHOCK OIL



SHOCK FILLING

- 1 Fully extend the piston rod so the piston is at the bottom of the shock body.
- 2 Hold the shock upright and slightly overfill the shock body with shock oil.
- 3 Let the oil settle and allow air bubbles to rise to the top. Slowly move the piston up and down until no more air bubbles appear. Add shock oil as necessary.
- 4 Pull the piston rod most of the way out of the shock body. Let the shock rest for 5 minutes to allow the air bubbles to escape.



CUTAWAY VIEW



After you insert the membrane ensure that it sits properly all around the alu cup properly.



When installing the shock cap assembly on the shock body, some oil will leak out... this is normal.

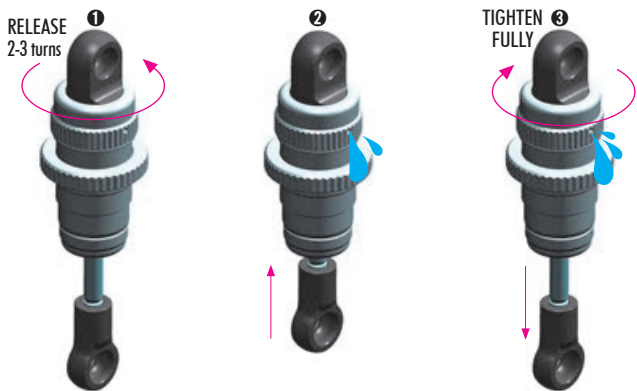
Fully tighten the cap and clean off any excess oil.

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

Follow the next procedure to adjust the rebound.

12. SHOCK ABSORBERS

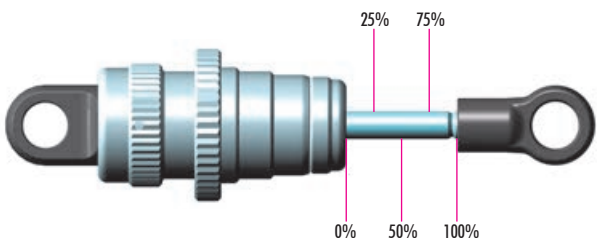
4x



REBOUND ADJUSTMENT

AFTER THE SHOCK IS ASSEMBLED YOU HAVE TO SET THE SHOCK REBOUND.

- 1 Release the shock cap by 2-3 turns.
- 2 Push the shock shaft fully up. For the first time the extra oil will release through the hole in the alu cap-nut.
- 3 Tighten the shock cap. When tightening the shock cap, extra oil will again release through the hole in the alu cap - nut. When tightening, the shock shaft will push out from the shock body.

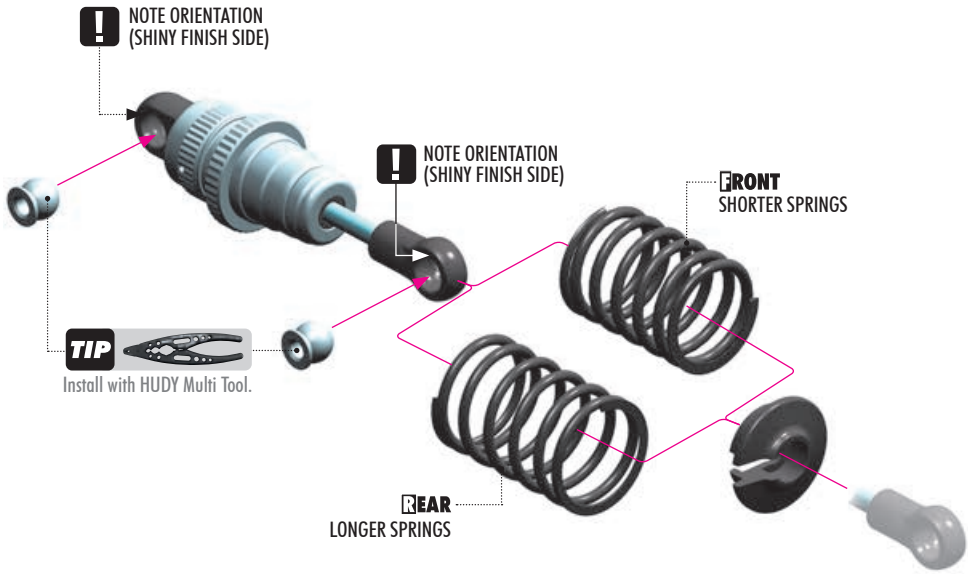


REBOUND CHECK

It is very important to push the shock shaft into the shock body slowly otherwise air can come into the shock body which would create bubbles.

- 100% rebound - repeat step 2 and 3 two - three times
- 75% rebound - repeat step 2 and 3 until the shock shaft will push out 75% of its length
- 50% rebound - repeat step 2 and 3 until the shock shaft will push out 50% of its length
- 25% rebound - repeat step 2 and 3 until the shock shaft will push out 25% of its length
- 0% rebound - repeat step 2 and 3 until the shock shaft will push out 0% of its length

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



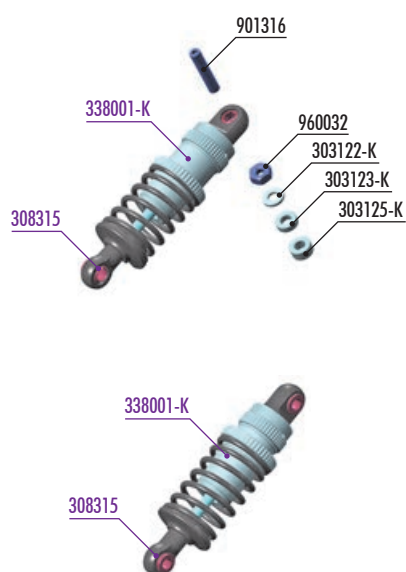
SHOCK SPRING RETAINING COLLAR		
#308031	ALU - SILVER	OPTION
#308031-O	ALU - ORANGE	OPTION
#308031-K	ALU - BLACK	OPTION
#308331	COMPOSITE	INCLUDED



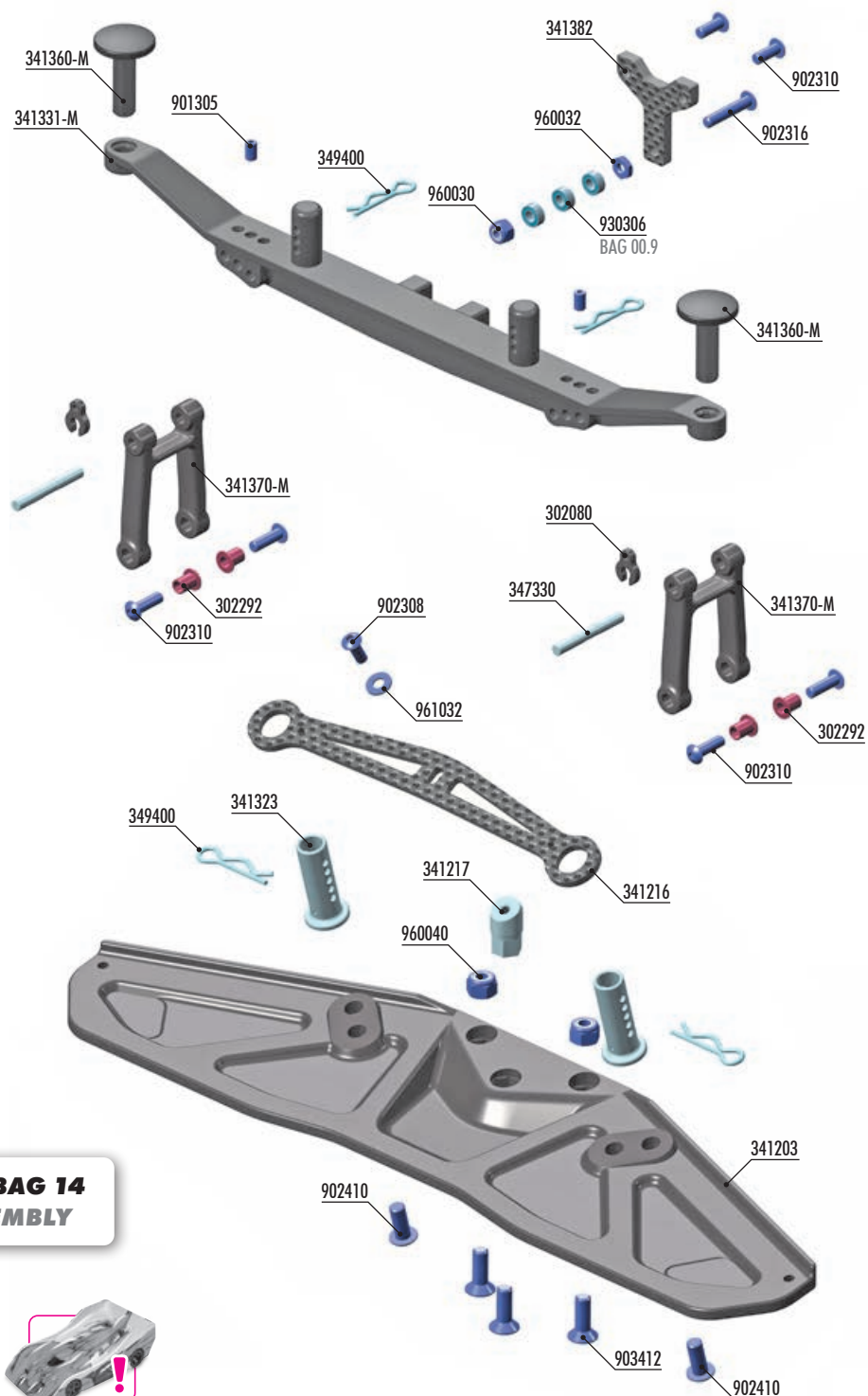
SHOCK LENGTH ADJUSTMENT

It is VERY important that all shocks are equal length. Fully extend the shock absorber and measure the end-to-end length; we recommend using digital calipers to give an accurate measurement. If a shock absorber is shorter or longer than others, adjust the shock length by tightening or loosening the ball joint on the shock rod.

13.9 & 14. FINAL ASSEMBLY



BAG 13.9 + BAG 14 FINAL ASSEMBLY



BAG

13.9

303122-K	ALU SHIM 3x6x1.0MM - BLACK (10)
303123-K	ALU SHIM 3x6x2.0MM - BLACK (10)
303125-K	ALU SHIM 3x6x3.0MM - BLACK (10)
901316	HEX SCREW SB M3x16 (10)
960032	NUT M3 (10)
308315	SHOCK BALL JOINT - LONG (4)
338001-K	ALU SHOCK ABSORBER-SET - BLACK (2)

BAG

14

302080	CASTER CLIPS SET 4+3+2+1mm (2)	901305	HEX SCREW SB M3x5 (10)
302292	STEEL STEERING BUSHING LONG (4)	902308	HEX SCREW SH M3x8 (10)
341203	COMPOSITE BUMPER - DOWNFORCE	902310	HEX SCREW SH M3x10 (10)
341216	CARBON HOLDER FOR FRONT BODY POSTS	902316	HEX SCREW SH M3x16 (10)
341217	CARBON HOLDER & ALU HOLDER - SET	902410	HEX SCREW SH M4x10 (10)
341323	ALU FRONT BODY POST - SHORT - SWISS 7075 T6 (2)	903412	HEX SCREW SFH M4x12 (10)
341331-M	COMPOSITE REAR BODY HOLDER - HIGHER - MEDIUM	930306	BALL-BEARING 3x6x2.5 STEEL SEALED - OIL (2)
341360-M	COMPOSITE REAR BODY HOLDER SCREW - MEDIUM (2)	960030	NUT M3 (10)
341370-M	COMPOSITE REAR BODY HOLDER ARM - MEDIUM	960032	NUT M3 - BLACK (10)
341382	CARBON REAR BODY CENTERING PLATE	960040	NUT M4 (10)
347330	REAR BODY HOLDER ARM PIN (2)	961032	WASHER S 3.2 (10)
349400	BODY CLIP (10)		

Numbers in parentheses () refer to quantities when purchased separately.

13.9 & 14. FINAL ASSEMBLY

- 0x 303122-K SHIM 3x6x1
- 2x 303123-K SHIM 3x6x2
- 0x 303125-K SHIM 3x6x3
- 2x 901316 SB M3x16
- 2x 960032 N M3

2x L=R

1 2 3

SPECIFIC ORDER STEPS

1mm

2mm SHIMS

INITIAL SETTING

I use the shims to adjust the angle of the shock position.

3mm

DO NOT use for initial setting.

2x L=R

3mm

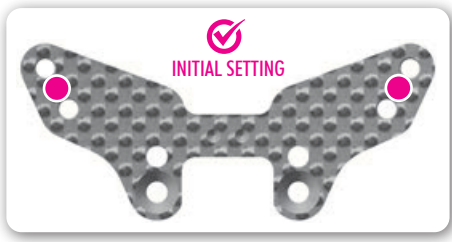
2x L=R

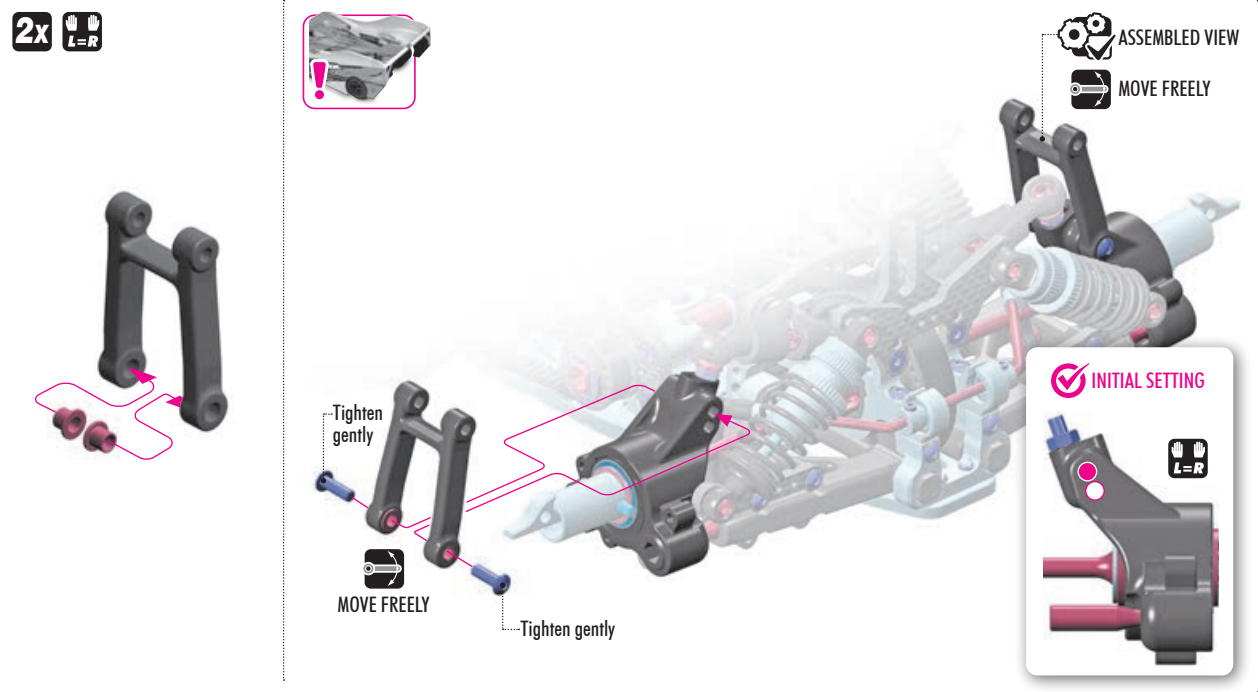
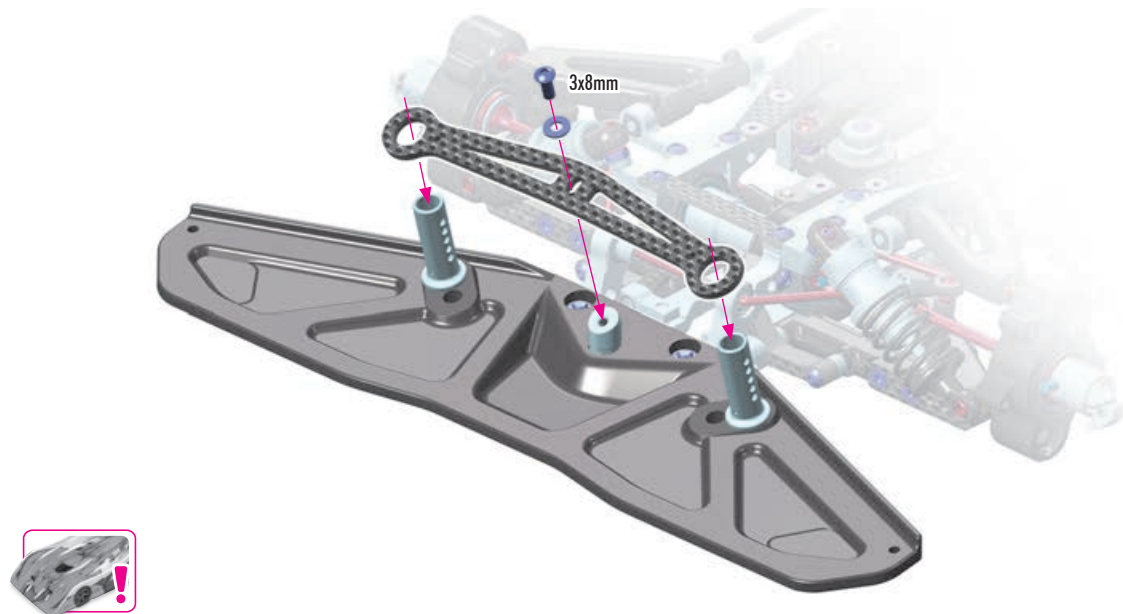
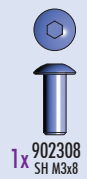
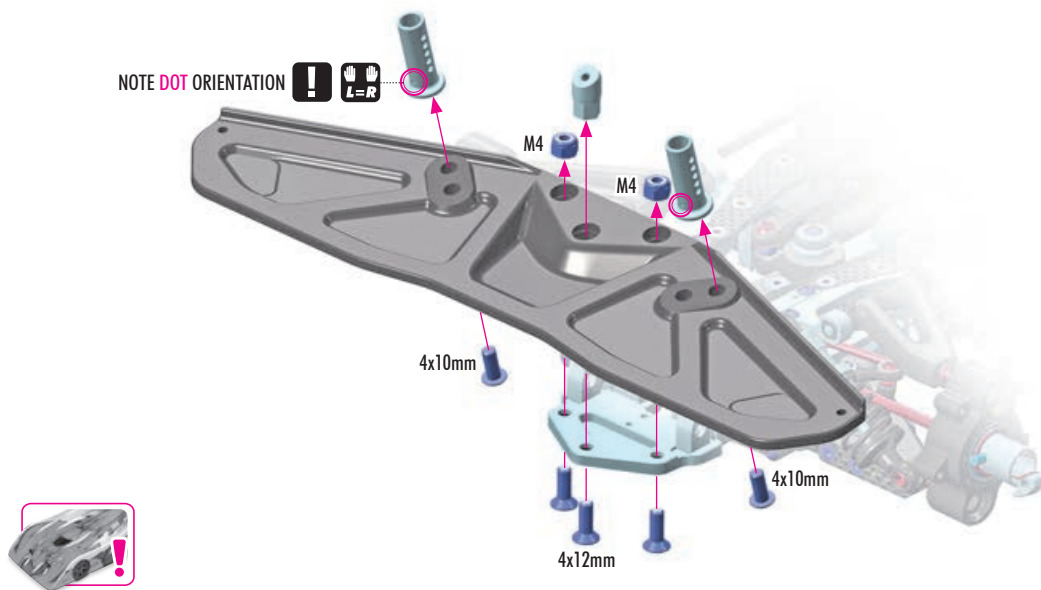
3.0mm

ASSEMBLED VIEW

2x L=R

ASSEMBLED VIEW



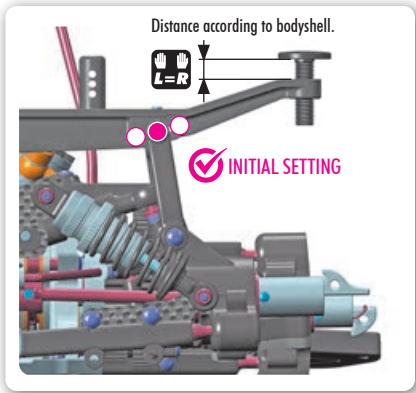
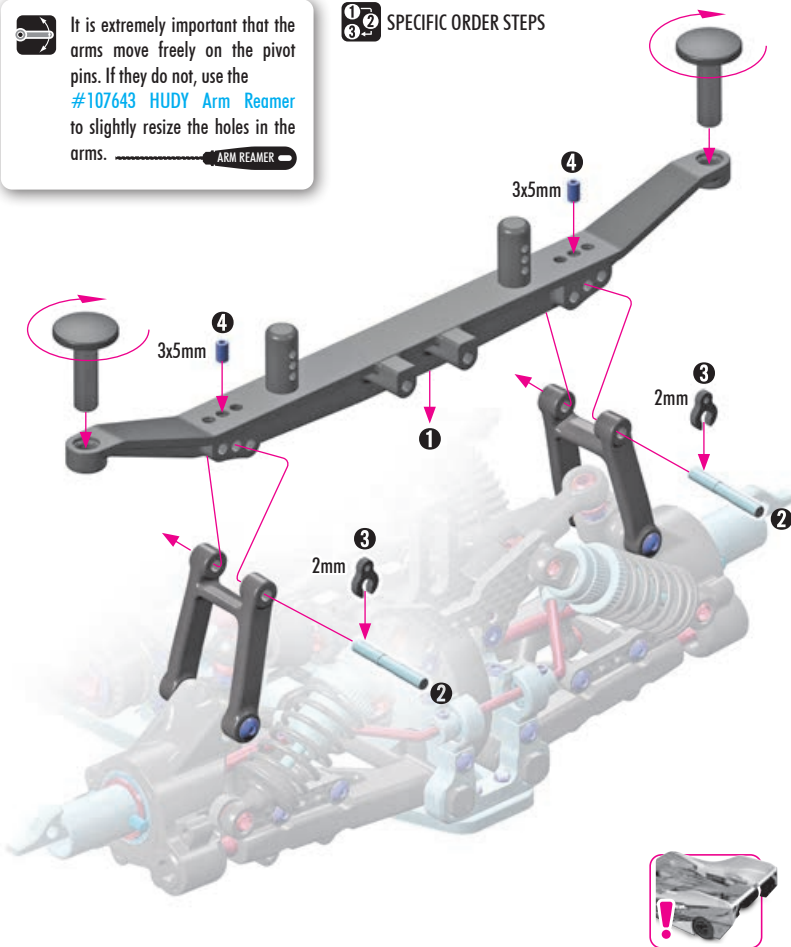


14. FINAL ASSEMBLY

- 2x 901305 SB M3x5

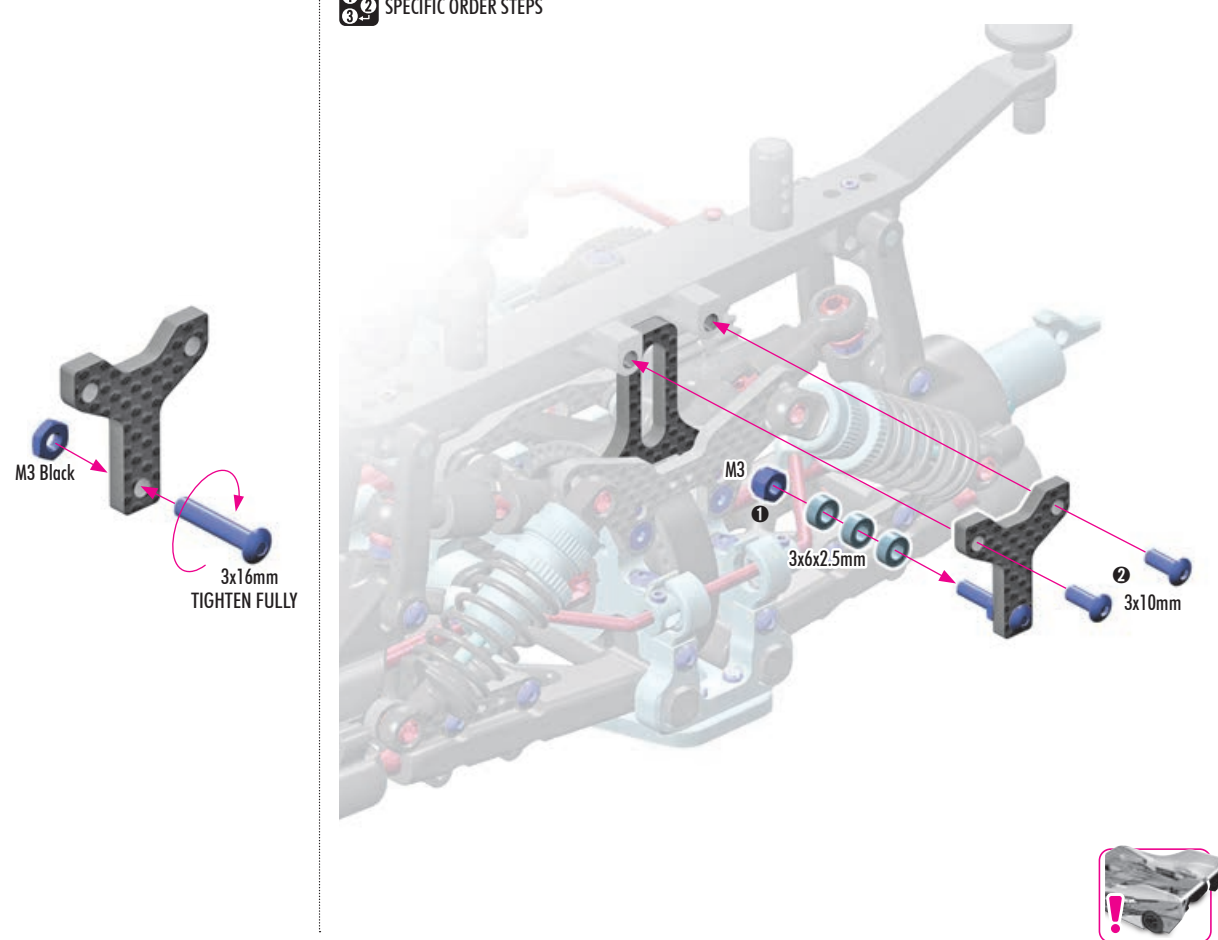
It is extremely important that the arms move freely on the pivot pins. If they do not, use the #107643 HUDY Arm Reamer to slightly resize the holes in the arms.

1 2 3 SPECIFIC ORDER STEPS



- 2x 902310 SH M3x10
- 1x 902316 SH M3x16
- 1x 960030 N M3
- 1x 960032 N M3
- 3x 930306 BB 3x6x2.5

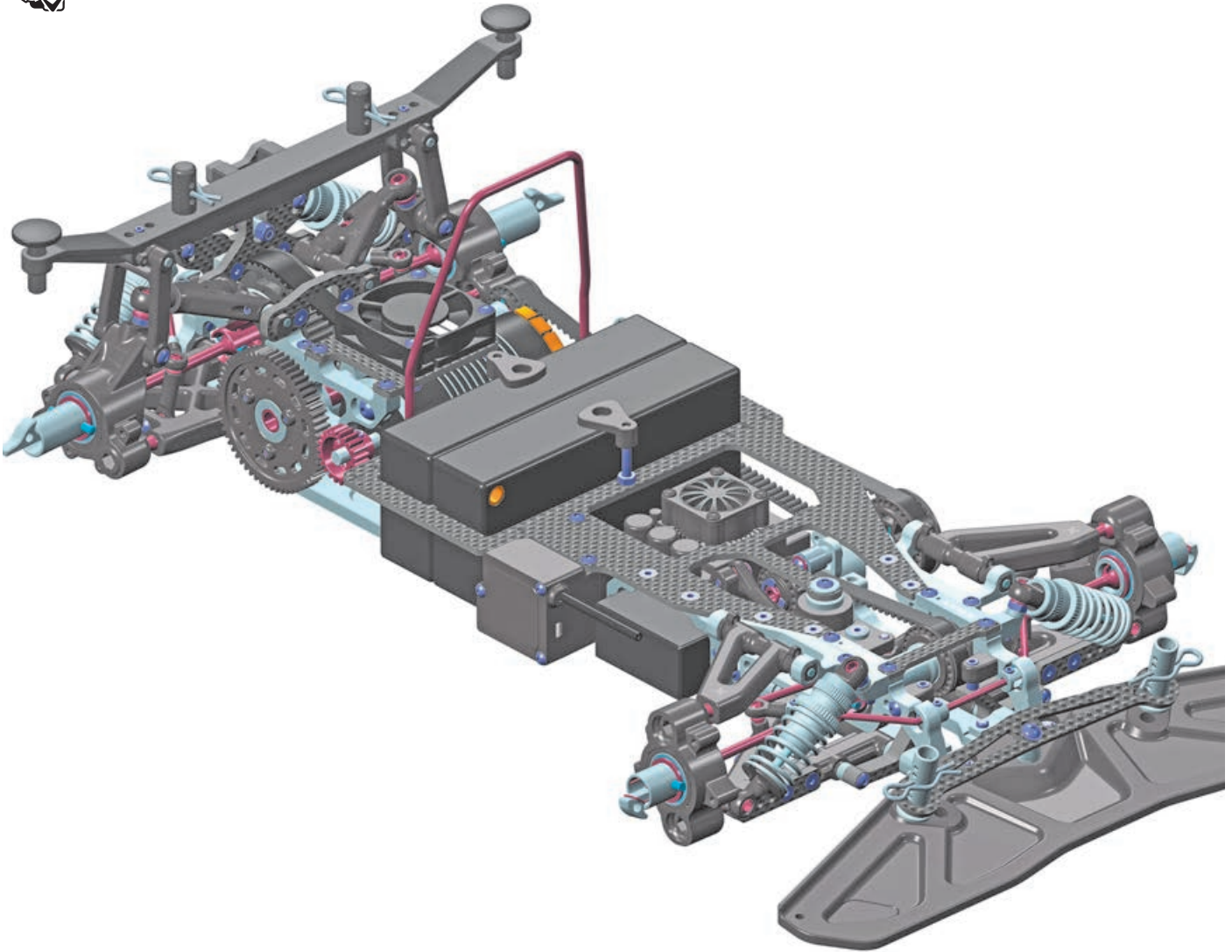
1 2 3 SPECIFIC ORDER STEPS



14. FINAL ASSEMBLY



FINAL ASSEMBLED VIEW



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.

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.





#108001
HUDY SET-UP STATION FOR 1/8 ON-ROAD CARS

#102362
WHEEL ADAPTER 1/8 ON-ROAD CARS



#102003
HUDY EXCELLENT TIRE TRUER - FULLY AUTOMATIC 1/8, 1/10, 1/12 - FULL OPTION



#107880
CHASSIS BALANCING SIMPLE TOOL - V2 (2)



#107903
HUDY QUICK-TWEAK STATION 1/8 & 1/10 ON-ROAD



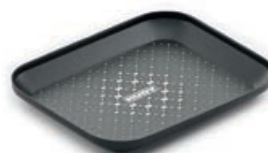
#107701
CHASSIS DROOP GAUGE SUPPORT BLOCKS (20mm) FOR 1/8 - LW (2)



#107711
CHASSIS DROOP GAUGE - 3 TO 10mm FOR 1/8 CARS (20mm)



#104002
HUDY AIR VAC - VACUUM PUMP ON-ROAD 1/8, 1/10, 1/12



#108195
HUDY ALU PARTS TRAY COMPACT MAGNETIC & ANTI-SLIP



#108150
HUDY TOURING CAR STAND - V3



#106000
HUDY DRIVE PIN REPLACEMENT TOOL (FOR 3mm PINS)



#107713
CHASSIS RIDE HEIGHT GAUGE 2mm TO 15mm (1mm STEPPED)



#106205
HUDY WASH BOX



#108190
HUDY ALU PARTS TRAY 160x100mm



#108070
ALU SET-UP WHEEL FOR 1/8 ON-ROAD (2+2)



#199060
HUDY ALU TOOL STAND

#293084
BALANCING CHASSIS WEIGHT 10g (4)



#293085
HUDY PURE TUNGSTEN WEIGHT THIN
ROUND 15mm WITH M3 - 10g



FLAT SET-UP BOARD 1/8 ON-ROAD
LIGHTWEIGHT



#108504 TITANIUM
#108501 GREY
#108502 SILVER GREY
#108503 DARK GREY
#108505 BLACK



#199185
HUDY CAR BAG - 1/8 ON-ROAD



#106281
HUDY BODY FIX 2 - 28g/1oz



#199911
HUDY PIT MAT ROLL 750x1200mm



#108560
PLASTIC SET-UP BOARD DECAL
331x545mm - 1/8 ON-ROAD



#199271
HUDY LiPo Safety Bag - Small



#990006
HUDY TITANIUM BALL STUD
D=4.9 / L=6 / S=3.5 / 2mm HEX (2)



#903306-T
HUDY TITANIUM HEX FLAT HEAD SCREW
SFH M3x6 (10)



#908306-T
HUDY TITANIUM HEX SUPER LOW HEAD
SCREW SLH M3x6 (10)



#105110
HUDY TIRE STICK 1/8 ON-ROAD,
1/8 OFF-ROAD & 1/8 GT (4)



#106213
HUDY JOINT GREASE



#106210
HUDY GRAPHITE GREASE

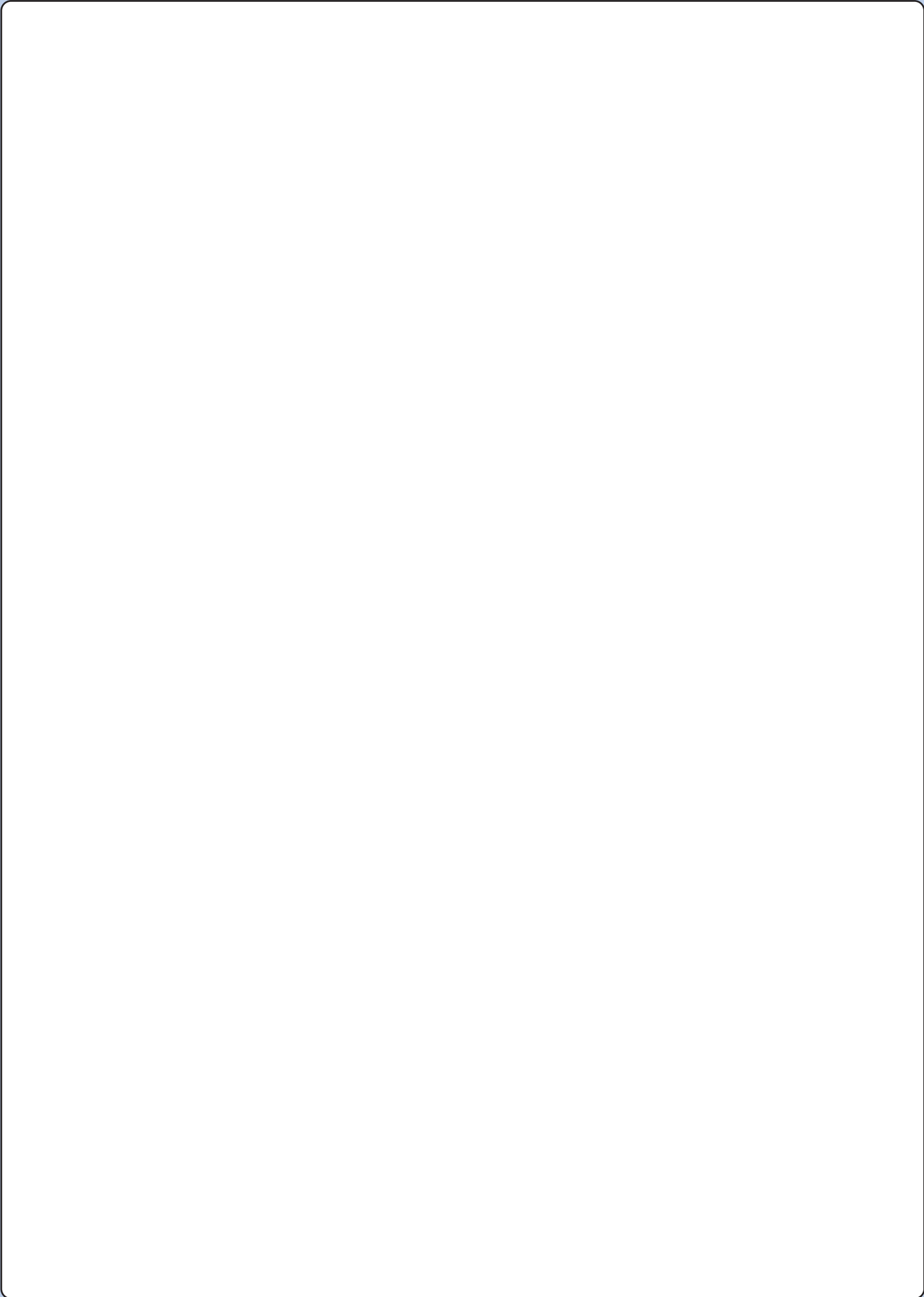


#106200
HUDY MAGIC CLEANING GUM



#107843
HUDY CLEANING BRUSH
CHEMICAL RESISTANT - 2.0"

NOTE



www.teamxray.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