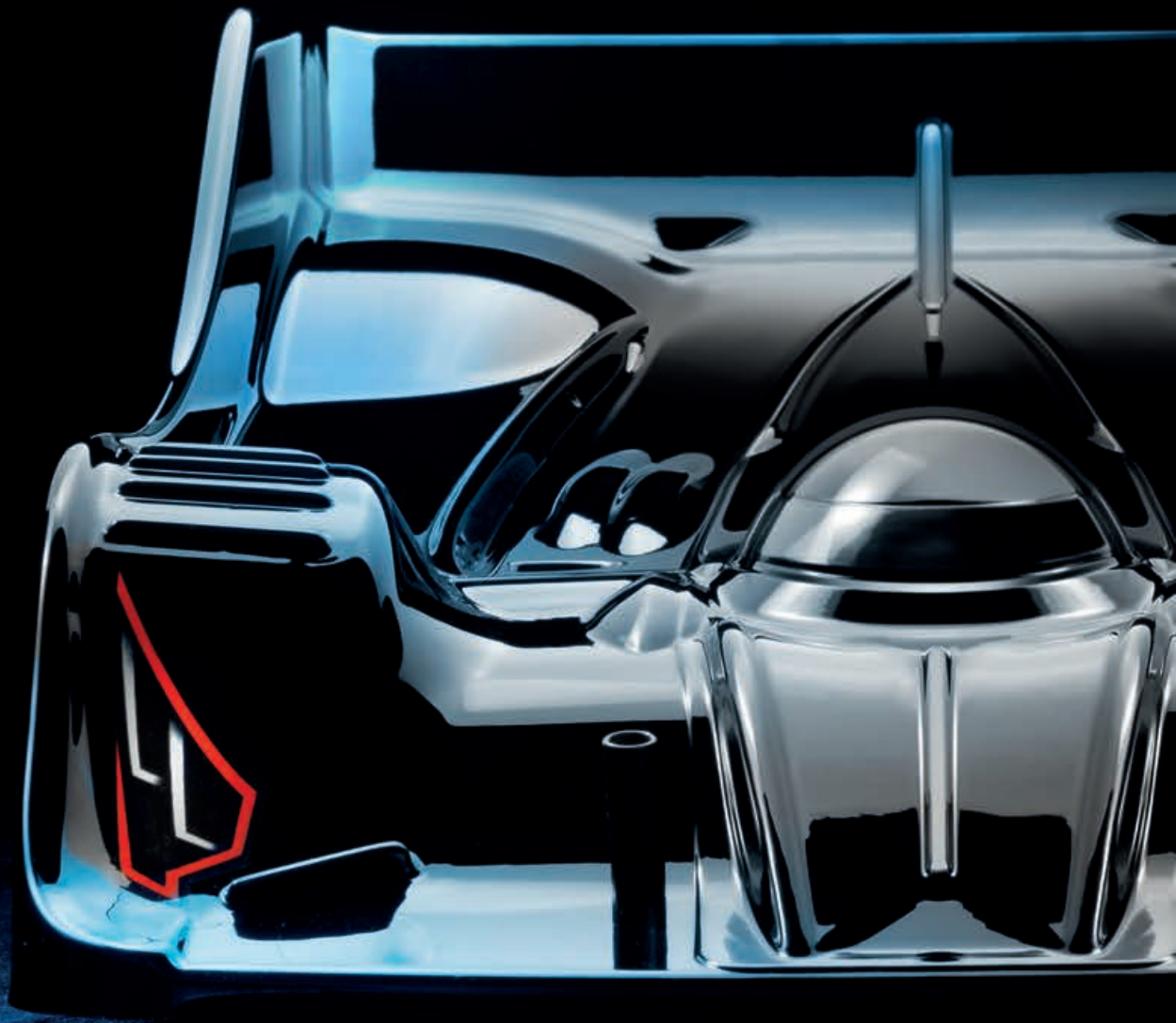


1/8 PAN CAR

XRAY X8



INSTRUCTION MANUAL
FOR X8'26

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 warranty immediately.

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



IMPORTANT NOTES - GENERAL

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

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

IMPORTANT NOTES – 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. Weak 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

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

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.

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



Side Cutters
(HUDY #189010)



Combination Pliers
(HUDY #189020)



HUDY Ball Joint Wrench (HUDY #181110)



Pocket Hobby Knife (HUDY #188981)



Turnbuckle Wrench 3.5mm



(HUDY #181035)



Special Tool for Turnbuckles & Nuts (HUDY #181090)



HUDY Tweezers Straight (HUDY #188970)



HUDY 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 2.0mm (#132045 - HUDY EXCLUSIVE Limited Edition)



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



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



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



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



Reamer (#107602 - HUDY EXCLUSIVE Limited Edition)



Cross Wrench 5mm (HUDY #107581)



Blade Hobby Knife with Alu Handle (HUDY #188980)



Professional Multi Tool (HUDY #183011)

EQUIPMENT INCLUDED

(HUDY #106210)
Premium Graphite Grease



NOTES



Follow Set-Up Book:

To ensure that you always have access to the most up-to-date version of the Set-up Book you can download the HUDY Set-up Book from their web site at [www.hudy.net] By offering this online version instead of including a hardcopy printed version in kits, you will always be assured of having the most current updated version.



SAMPLE OF OPTIONAL PARTS

#34XXXX	TYPE1	OPTION 1
#34XXXX	TYPE2	OPTION 2
#34XXXX	TYPE	INCLUDED
#34XXXX	TYPE3	OPTION 3

XRAY offers wide range of optional tuning parts which are listed in a table like this. Please refer to the exploded view of each main section to verify which part is included in the kit while all other parts are available only as an optional part and must be purchased separately.

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

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

341134

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

345001

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

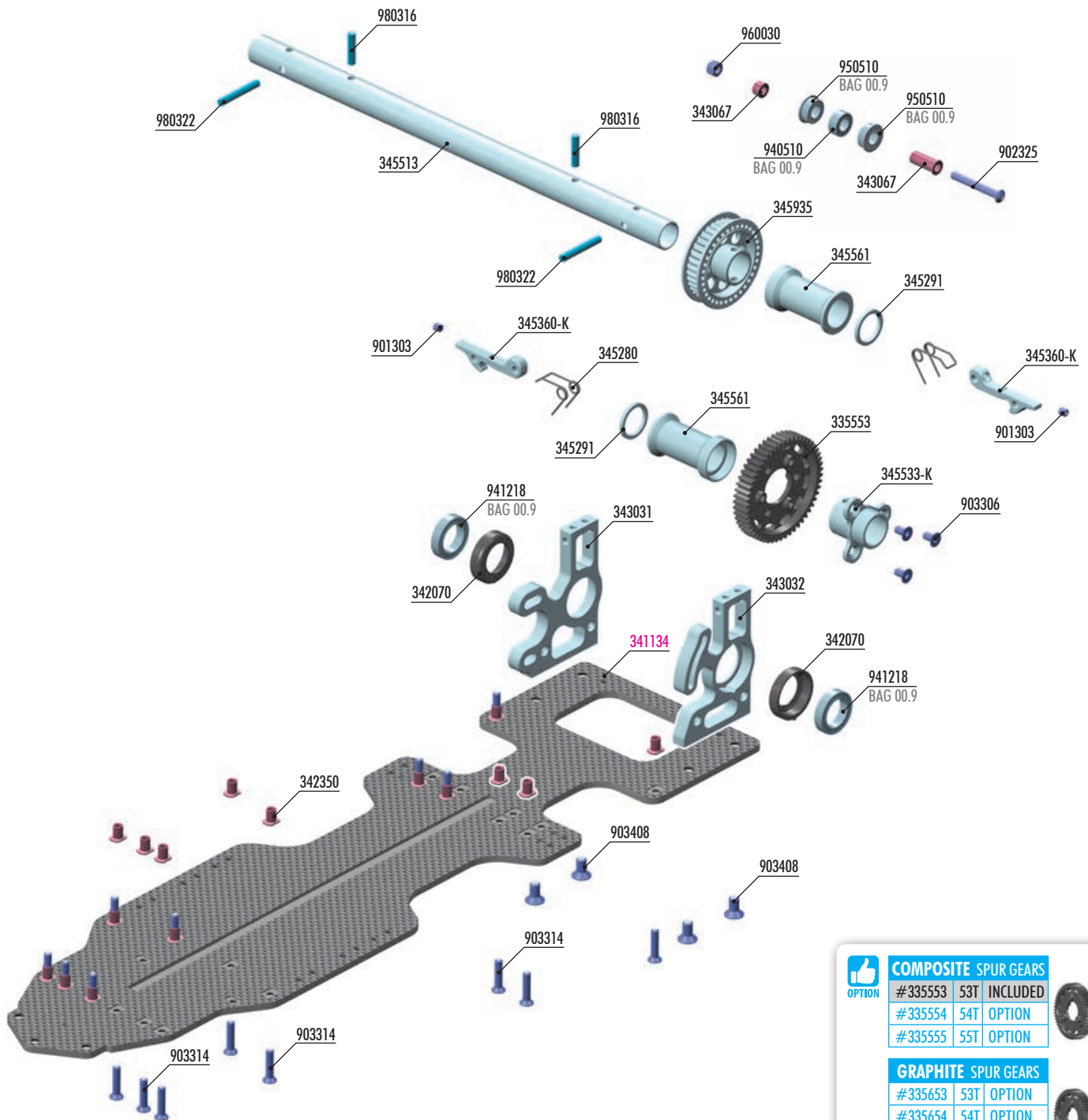
346132

STYLE D - indicates parts that are optional.

EQUIPMENT REQUIRED

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

1. REAR TRANSMISSION



COMPOSITE SPUR GEARS			
#335553	53T	INCLUDED	
#335554	54T	OPTION	
#335555	55T	OPTION	
GRAPHITE SPUR GEARS			
#335653	53T	OPTION	
#335654	54T	OPTION	
#335655	55T	OPTION	

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

OPTION		
#345934	34T	OPTION
#345935	35T	INCLUDED
#345936	36T	OPTION



BAG
01

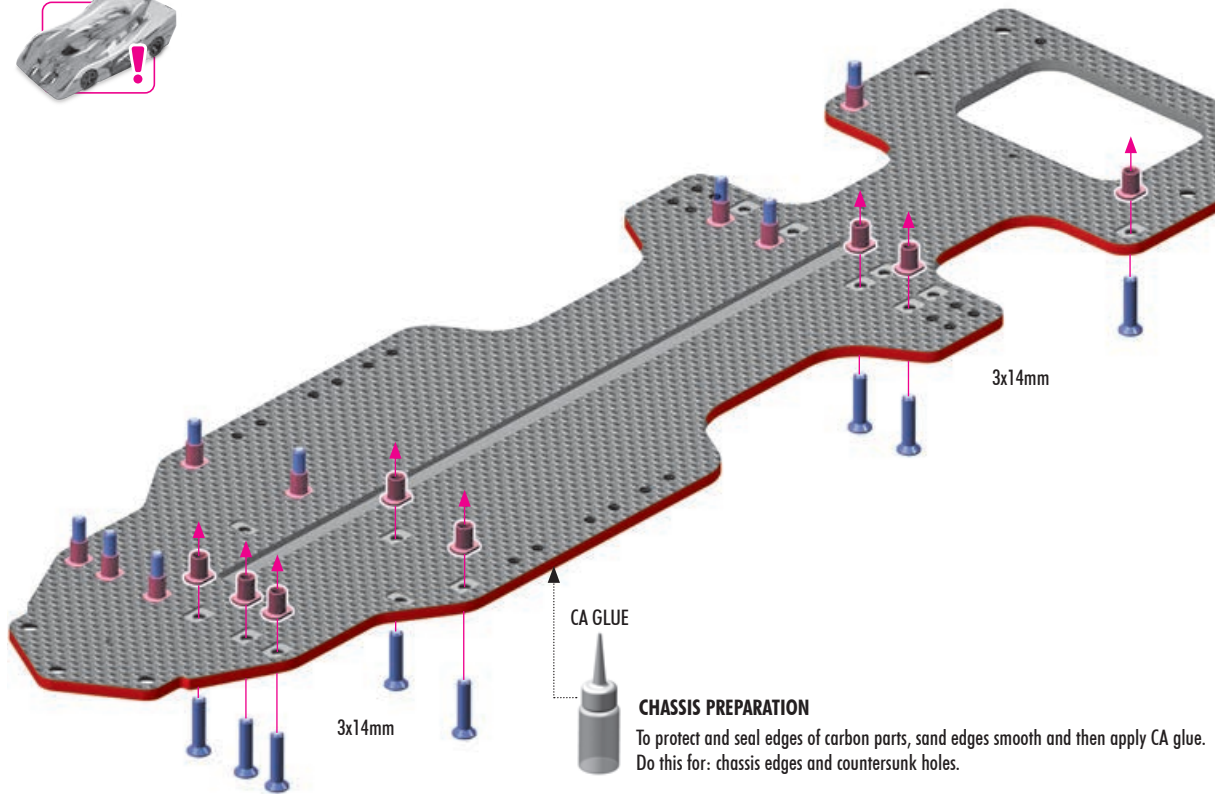
- | | | | |
|----------|--|--------|--|
| 335553 | COMPOSITE GEAR 60T | 901303 | HEX SCREW SB M3x3 (10) |
| 342070 | COMPOSITE SET OF BUSHINGS (2) | 902325 | HEX SCREW SH M3x25 (10) |
| 342350 | STEEL BUSHING 6mm (4) | 903306 | HEX SCREW SFH M3x6 (10) |
| 343031 | X8 ALU LOWER BULKHEAD REAR - RIGHT - SWISS 7075 T6 | 903314 | HEX SCREW SFH M3x14 (10) |
| 343032 | X8 ALU LOWER BULKHEAD REAR - LEFT - SWISS 7075 T6 | 903408 | HEX SCREW SFH M4x8 (10) |
| 343067 | X8 STEEL BUSHING SHORT & LONG | 940510 | BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2) |
| 345280 | WHEEL SPRING (2) | 941218 | BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2) |
| 345291 | ALU SHIM 12 x 15 x 1.5mm (4) | 950510 | BALL-BEARING 5x10x4 FLANGED - STEEL SEALED - OIL (2) |
| 345360-K | ALU REAR WHEEL LOCK - SWISS 7075 T6 - BLACK (2) | 960030 | NUT M3 (10) |
| 345513 | X8 ALU REAR TRANSMISSION SHAFT - HARD COATED - SWISS 7075 T6 | 980316 | PIN 3x16 (10) |
| 345533-K | X8 ALU DRIVE FLANGE FOR SPUR GEAR - BLACK - SWISS 7075 T6 | 980322 | PIN 3x22 (10) |
| 345561 | X8 ALU MIDDLE SHAFT ADAPTER - SWISS 7075 T6 | | |
| 345935 | X8 ALU SIDE BELT PULLEY 35T - HARD COATED - SWISS 7075 T6 | 341134 | X8 CARBON CHASSIS |

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

1. REAR TRANSMISSION



16x 903414
SFH M3x14

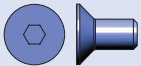


CHASSIS PREPARATION

To protect and seal edges of carbon parts, sand edges smooth and then apply CA glue. Do this for: chassis edges and countersunk holes.

XRAY uses the highest quality USA-made carbon fiber sheets available on the market. The carbon fiber sheets are pressed, and this production technique may result in slight variations in each sheet's thickness and flatness. The carbon manufacturer cannot and does not guarantee perfect uniformity as it is impossible to ensure each plate's perfect flatness with such thin material thicknesses.

These tolerances for thickness and flatness are taken into consideration when designing our XRAY cars and parts. Minor irregularities in the carbon fiber parts will not affect the performance of XRAY vehicles once assembled with the other components. While an individual carbon fiber part itself may not lay perfectly flat, rest assured that the assembled vehicle will still perform as designed and intended.

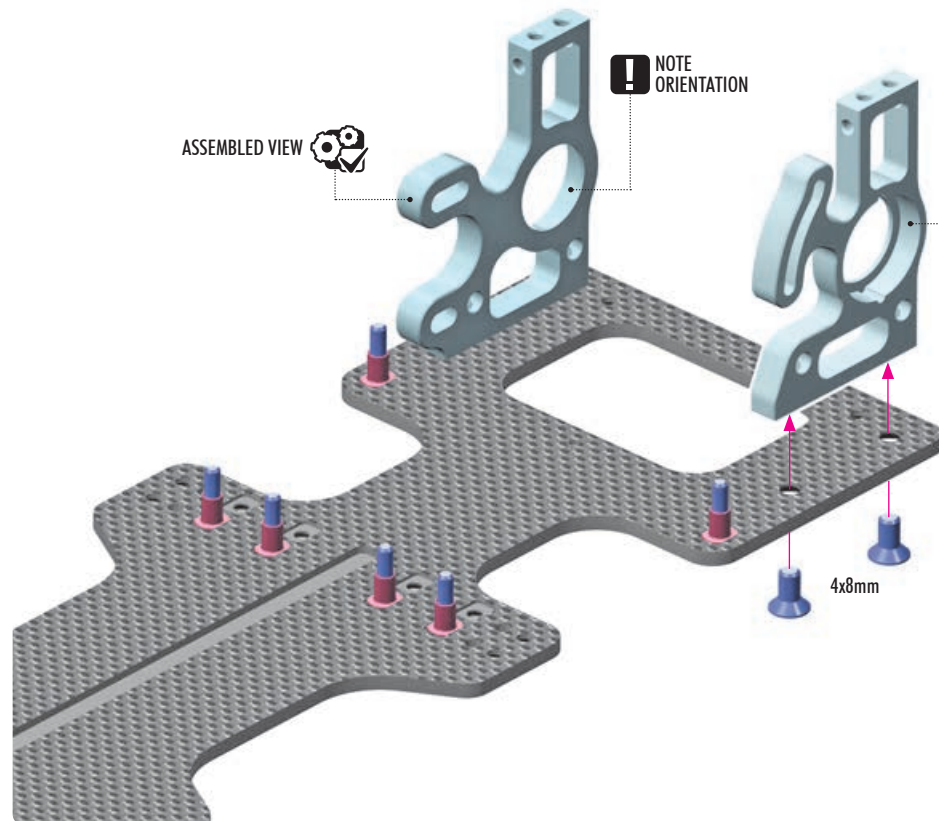


4x 903408
SFH M4x8

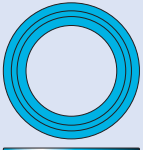
ASSEMBLED VIEW

NOTE ORIENTATION

NOTE ORIENTATION



1. REAR TRANSMISSION

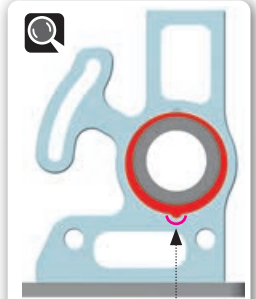


2x 941218
BB 12x18x4

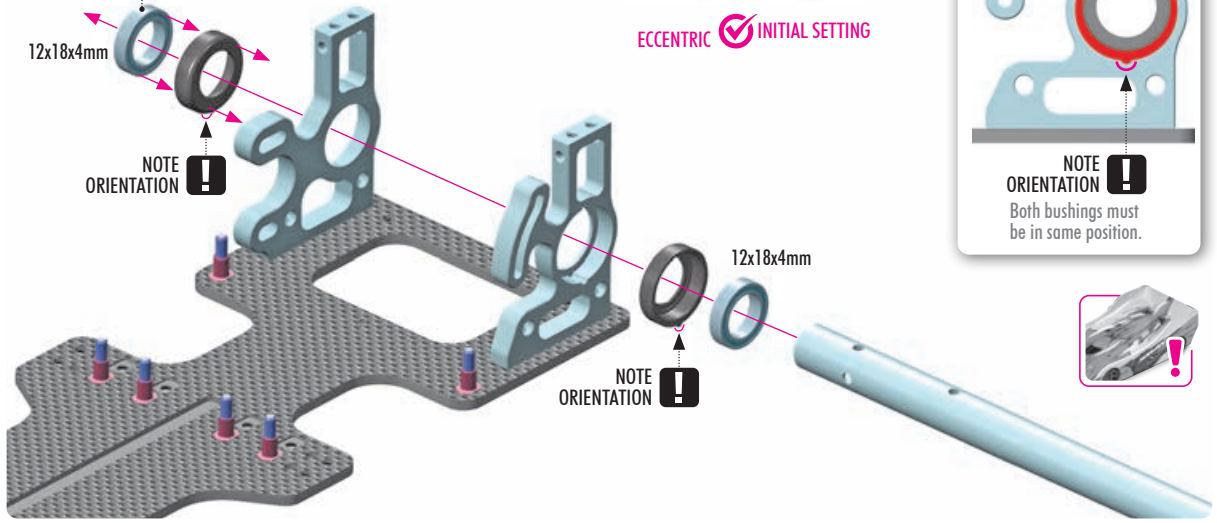
2x L=R

TIP Please refer to page 27 for information on the service & maintenance of ball-bearings.

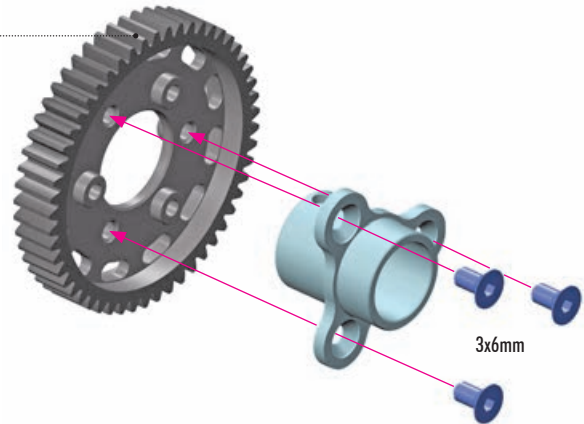
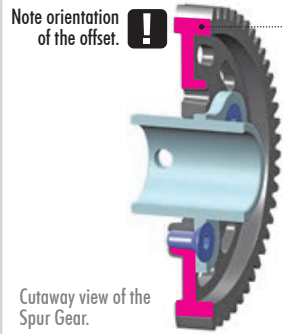
Composite set of bushings



NOTE ORIENTATION
Both bushings must be in same position.



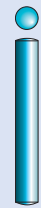
3x 903306
SFH M3x6



1x 901303
SB M3x3



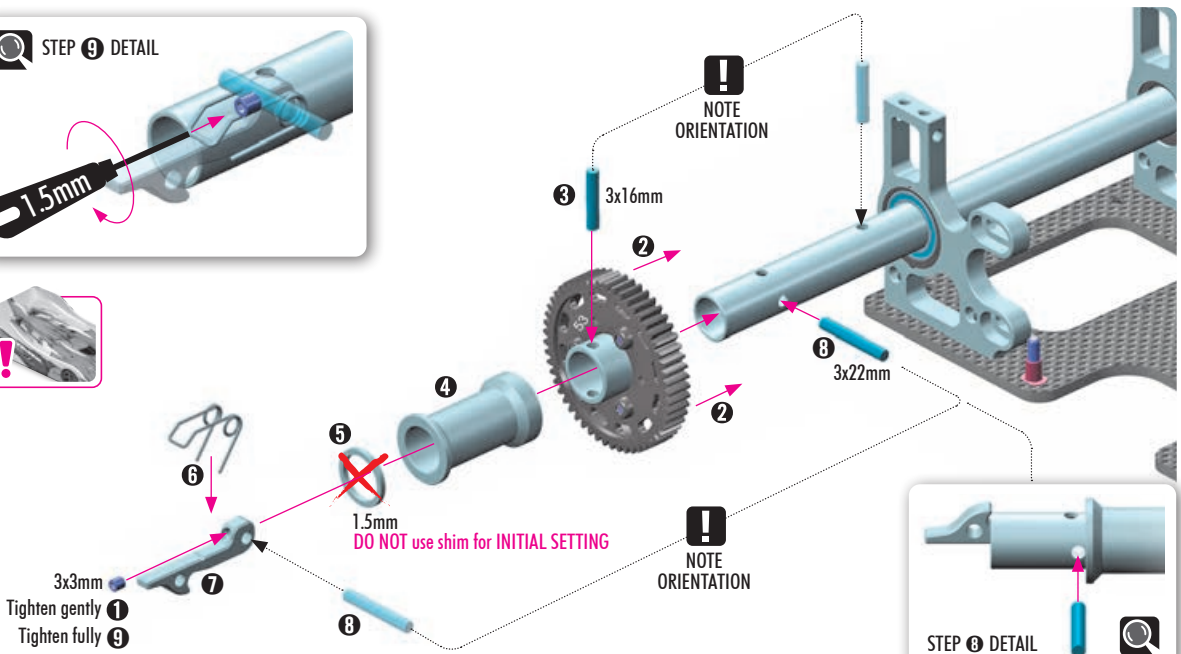
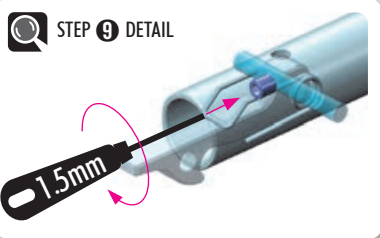
980316
P 3x16
1x



980322
P 3x22
1x



0x 345291
S 12x15x1.5



1. REAR TRANSMISSION

1x 901303
SB M3x3

980316
P 3x16
1x

980322
P 3x22
1x

0x 345291
S 12x15x1.5

NOTE ORIENTATION

3x16mm

3x22mm

REAR AXLE PULLEY 35T

NOTE ORIENTATION

1.5mm

DO NOT use shim for INITIAL SETTING

3x3mm

Tighten gently ①
Tighten fully ②

STEP 3 DETAIL

STEP 4 DETAIL

L=R

REAR TRACK WIDTH ADJUSTMENT

ALTERNATIVE TRACK WIDTH +3mm

SHIM 1.5mm (+1.5mm)

SHIM 1.5mm (+1.5mm)

INITIAL SETTING ALTERNATIVE STANDARD TRACK WIDTH (Without Shims)

1x 960030
N M3

1x 902325
SH M3x25

1x 940510
BB 5x10x4

2x 950510
BB 5x10x4

M3

3.4mm Bushing

5x10x4mm Flanged

5x10x4mm Flanged

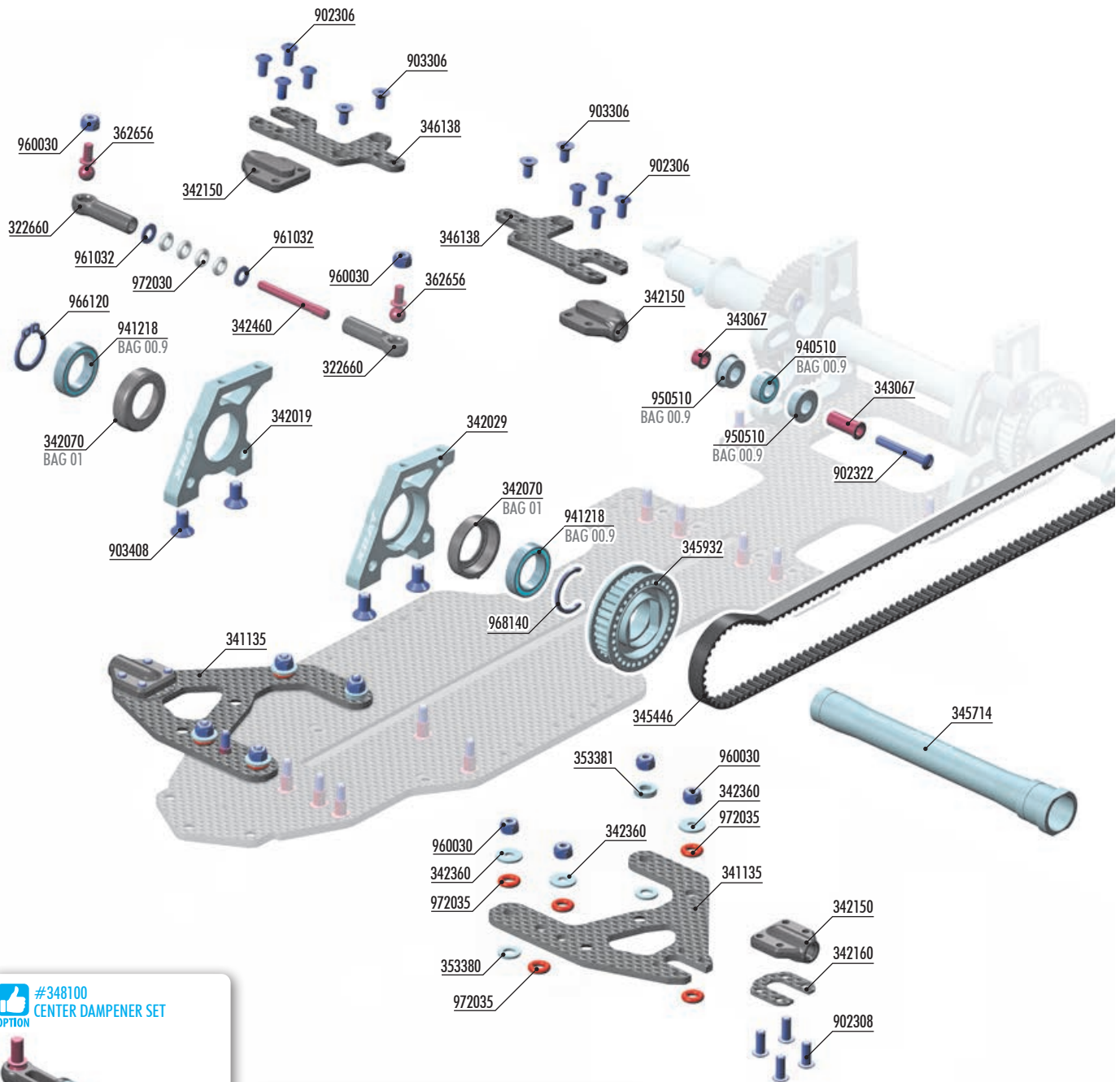
5x10x4mm

12.8mm Bushing

3x25mm

Install the belt tensioner at the maximum **UPPER** position.

2. FRONT TRANSMISSION



#348100
CENTER DAMPENER SET
OPTION



#990016
HUDY TITANIUM BALL STUD
OPTION
D=5.4 / L=6 / S=4.5 / 2mm HEX (2)



BAG

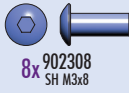
02

322660	COMPOSITE BALL JOINT 5.4mm (12+1+1)	902306	HEX SCREW SH M3x6 (10)
341135	X8 CARBON FRONT LOWER SUSPENSION ARM (L+R)	902308	HEX SCREW SH M3x8 (10)
342019	X8 ALU LOWER BULKHEAD FRONT - RIGHT - SWISS 7075 T6	902322	HEX SCREW SH M3x22 (10)
342029	X8 ALU LOWER BULKHEAD FRONT - LEFT - SWISS 7075 T6	903306	HEX SCREW SFH M3x6 (10)
342070	COMPOSITE SET OF BUSHINGS (2)	903408	HEX SCREW SFH M4x8 (10)
342150	X8 COMPOSITE SUSPENSION BALL JOINT ADAPTER (2)	940510	BALL-BEARING 5x10x4 RUBBER SEALED - OIL (2)
342160	X8 CARBON SHIM FOR BALL JOINT ADAPTER (2)	941218	BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2)
342360	ALU SHIM 3x8.8x1mm (10)	950510	BALL-BEARING 5x10x4 FLANGED - STEEL SEALED - OIL (2)
342460	X8 STEEL FRONT CENTER SPRINGPIN	960030	NUT M3 (10)
343067	X8 STEEL BUSHING SHORT & LONG	961032	WASHER S 3.2 (10)
345446	LOW FRICTION DRIVE BELT SIDE 6.0 x 705mm	966120	CH-CLIP 12 (10)
345714	X8 ALU FRONT SHAFT WITH ONE-WAY BEARINGS - SWISS 7075 T6	968140	C-CLIP 14 (10)
345932	X8 ALU SIDE BELT PULLEY 32T - HARD COATED - SWISS 7075 T6	972030	SILICONE O-RING 3x2 (10)
346138	X8 CARBON FRONT UPPER SUSPENSION PLATE (L+R)	972035	SILICONE O-RING 3.5x2 (10)
353380	ALU SHIM 4x7.5x1mm (4)		
353381	ALU SHIM 4x7.5x2mm (4)		
362656	HARD STEEL BALL END 5.4mm WITH THREAD 6mm - NICKEL COATED (2)		

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

XRAY

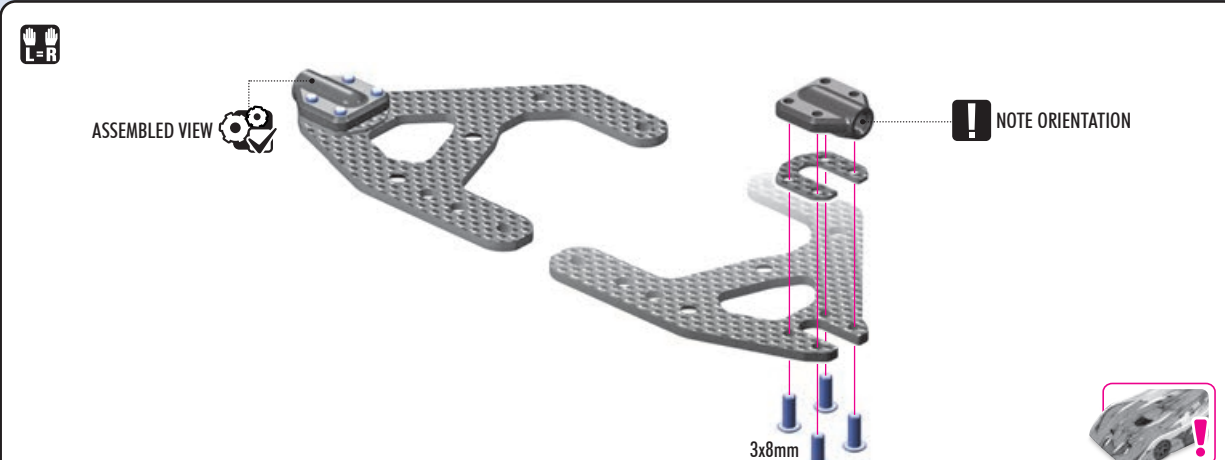
2. FRONT TRANSMISSION




8x 902308
SH M3x8


L-R

ASSEMBLED VIEW




NOTE ORIENTATION







303118-K
SHIM 3x9x1
4x




342360
SHIM 3x8.8x1
6x




353380
SHIM 4x7.5x1
4x



353381
SHIM 4x7.5x2
2x



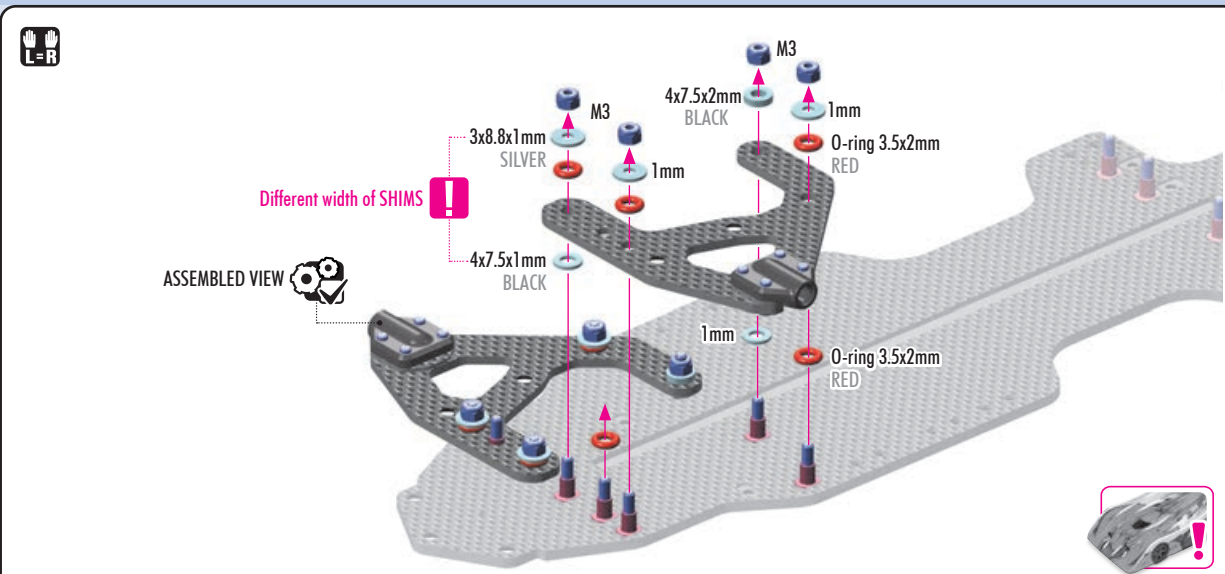
972035
O 3.5x2
10x





960030
N M3
8x

L-R

ASSEMBLED VIEW

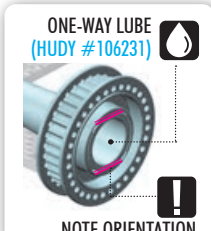




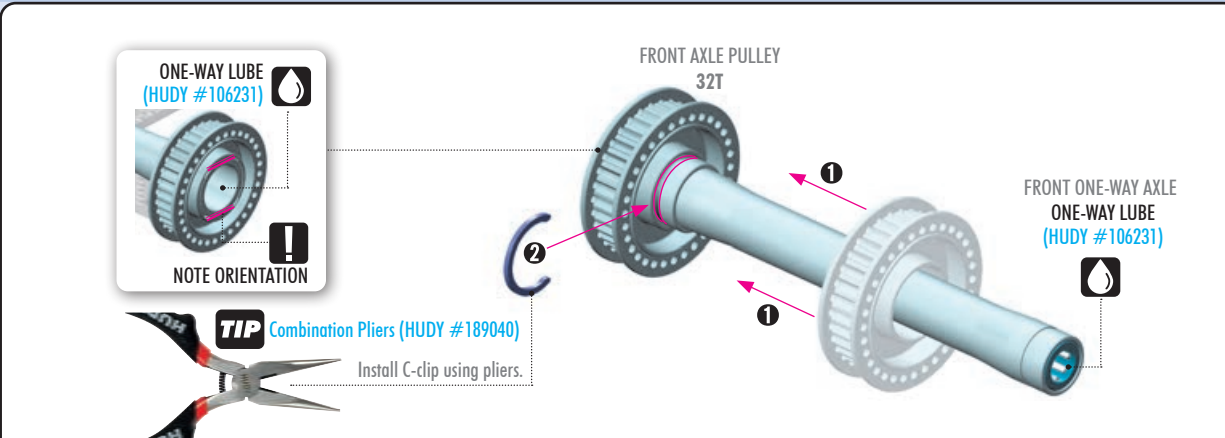


1x 968140
C14

ONE-WAY LUBE
(HUDY #106231)




NOTE ORIENTATION



FRONT AXLE PULLEY
32T

FRONT ONE-WAY AXLE
ONE-WAY LUBE
(HUDY #106231)

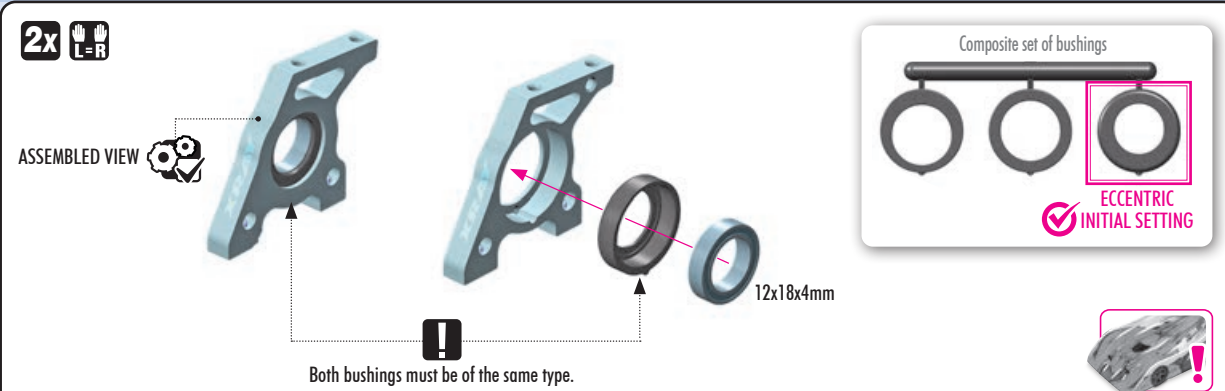
TIP Combination Pliers (HUDY #189040)
Install C-clip using pliers.




2x 941218
BB 12x18x4

2x L-R

ASSEMBLED VIEW

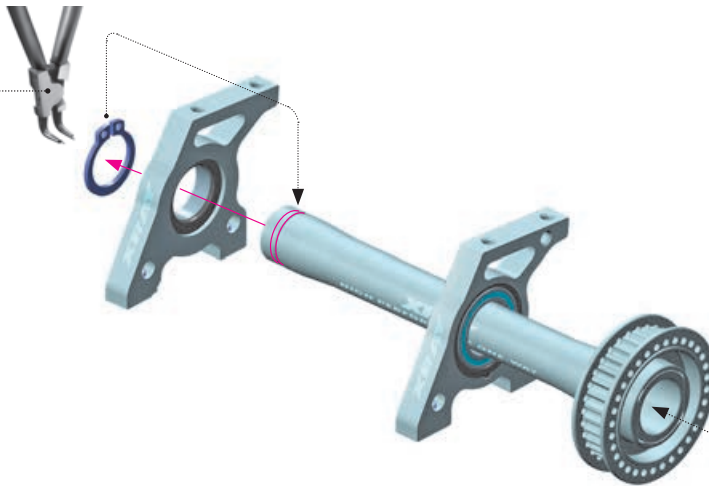




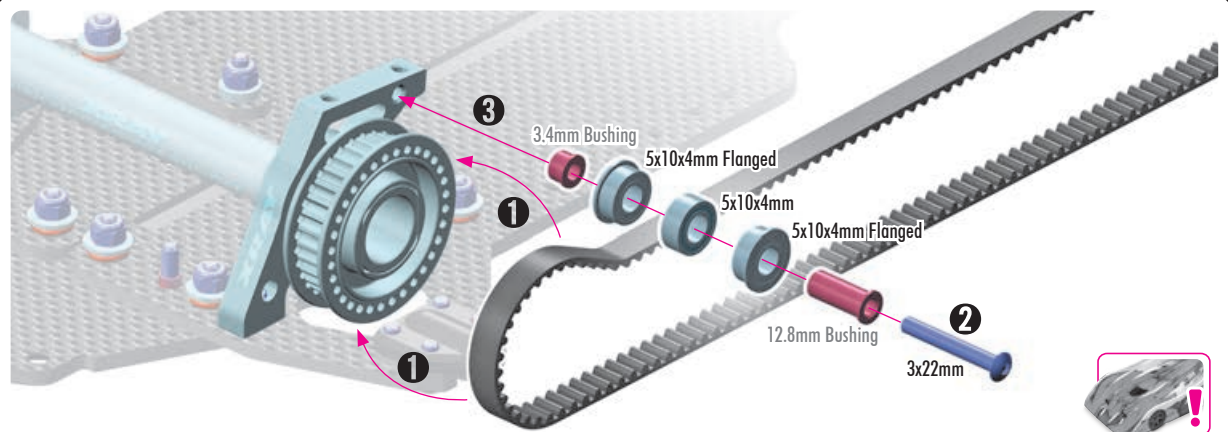
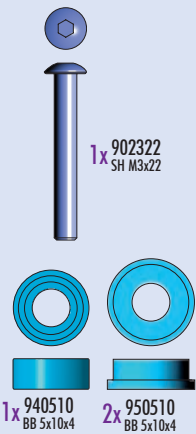
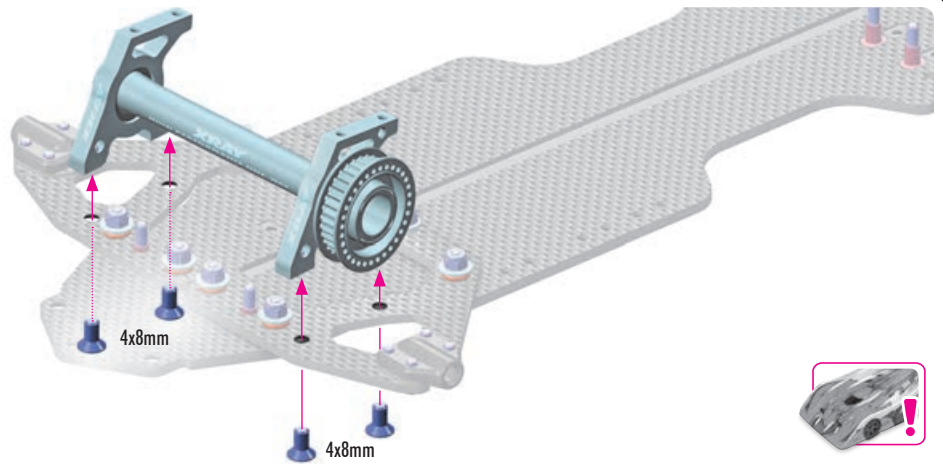
2. FRONT TRANSMISSION



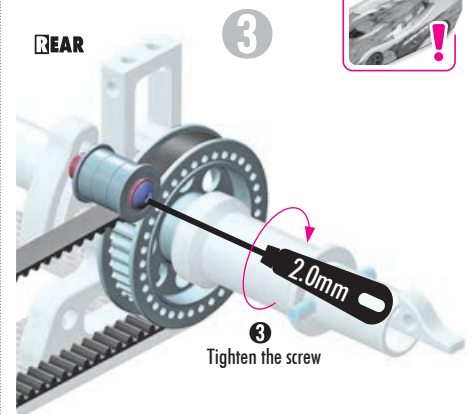
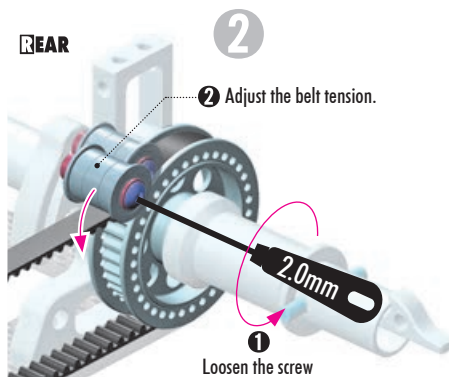
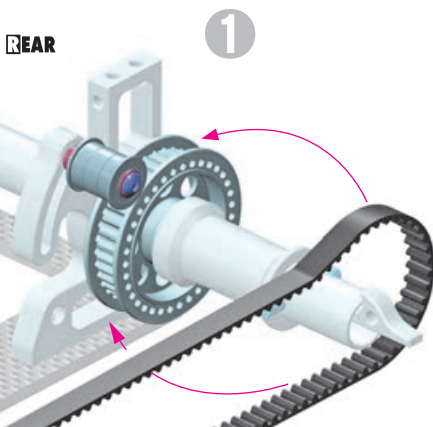
TIP
Use Snap ring pliers.



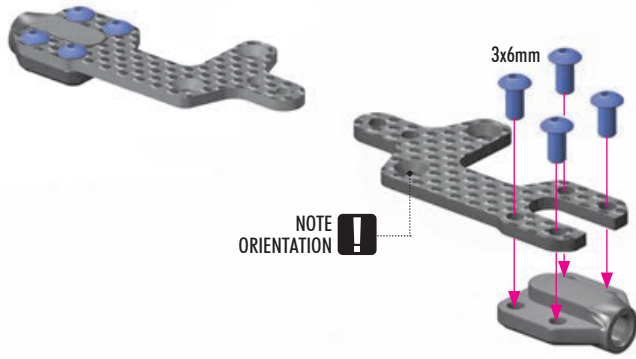
FRONT ONE-WAY AXLE
ONE-WAY LUBE
(HUDY #106231)



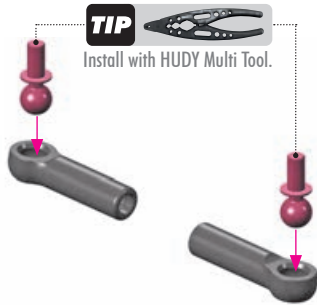
Installation of the belt on the **REAR** shaft.



2. FRONT TRANSMISSION

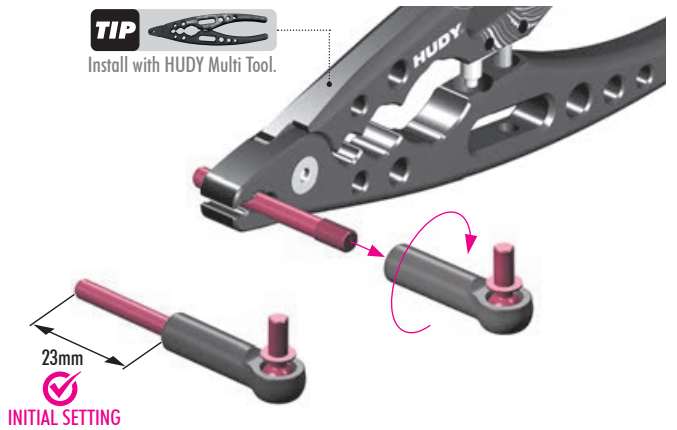


NOTE ORIENTATION !

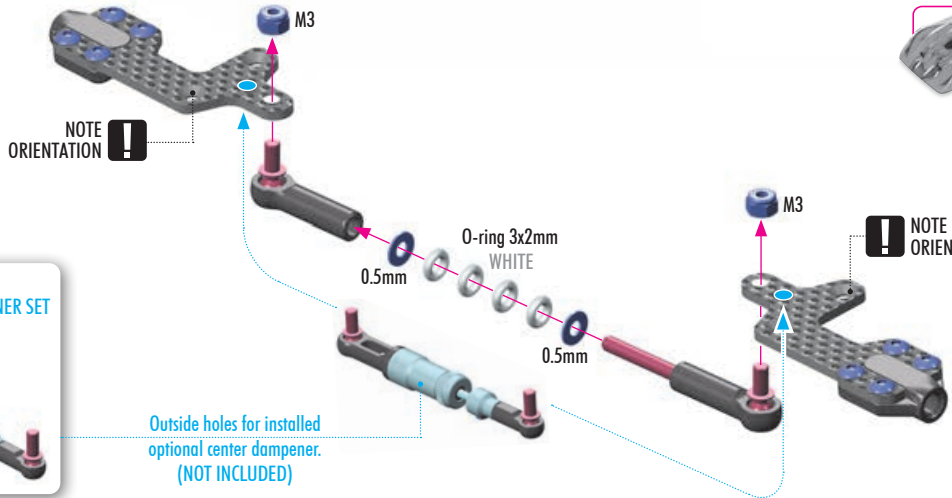


TIP Install with HUDY Multi Tool.

TIP Install with HUDY Multi Tool.



23mm
INITIAL SETTING

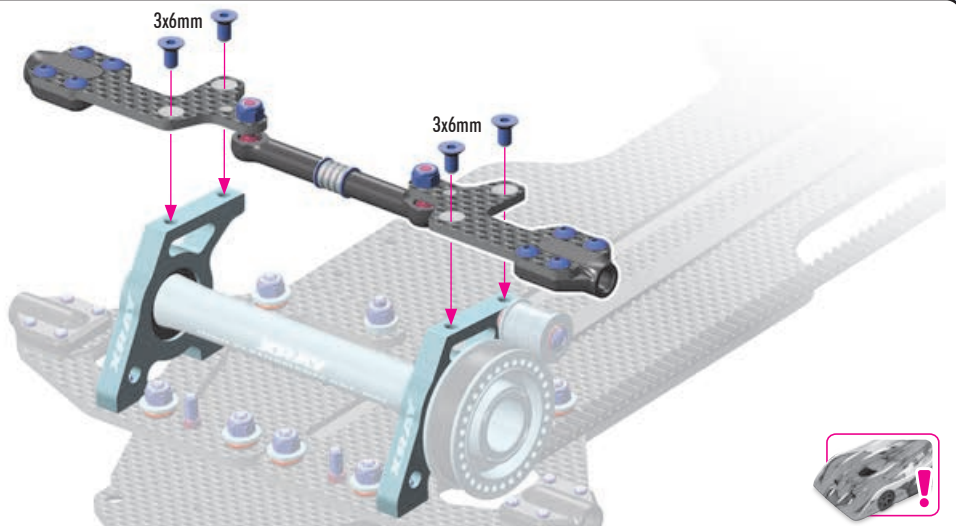


NOTE ORIENTATION !

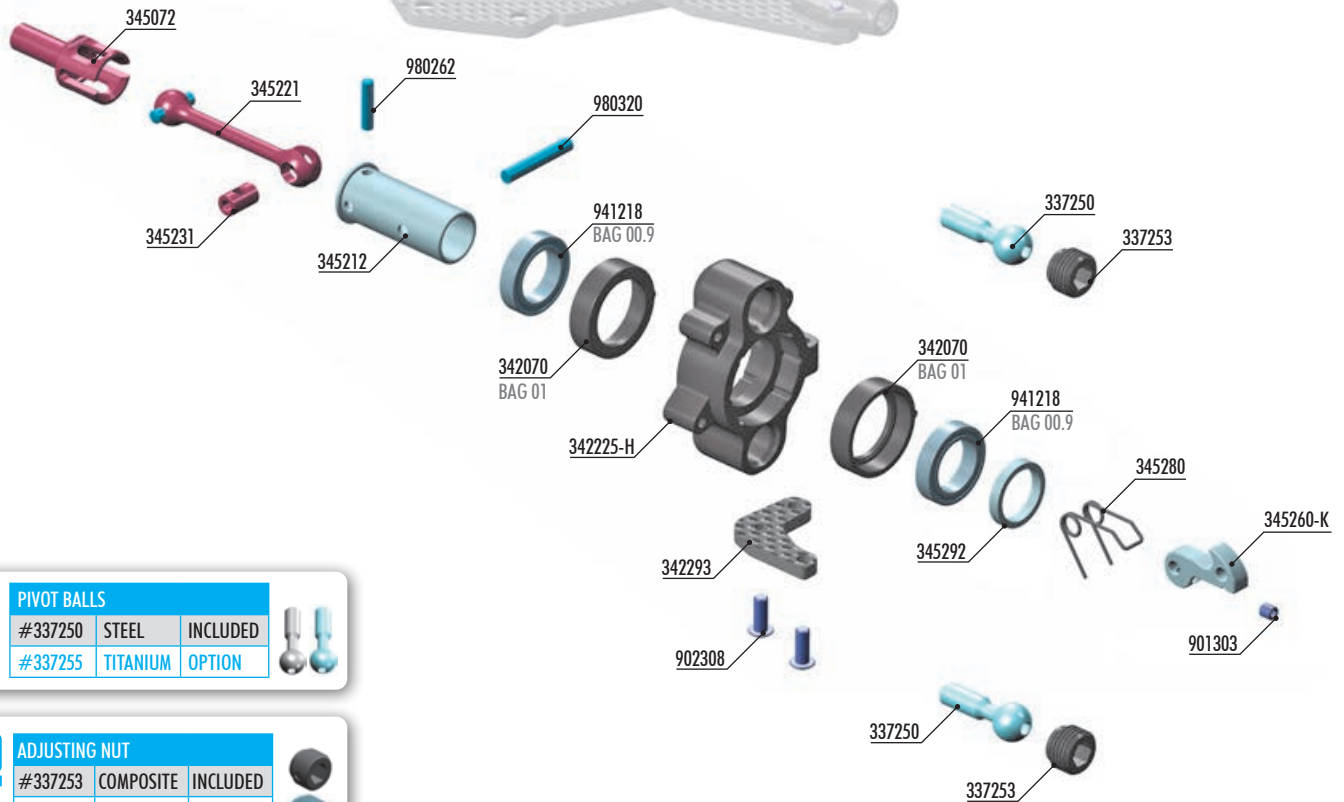
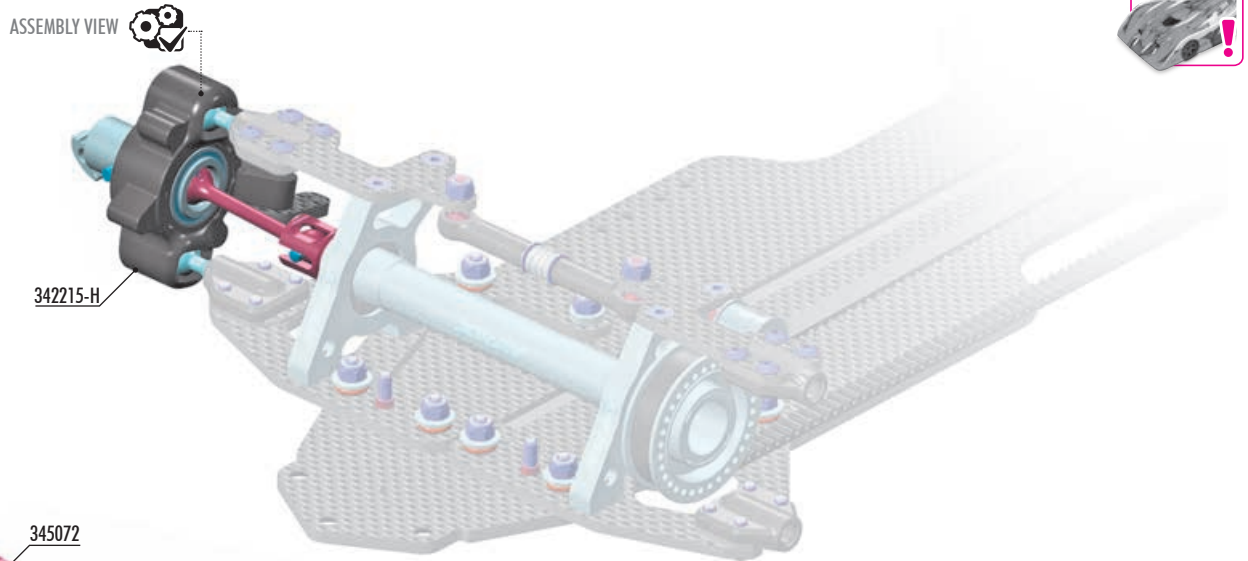
NOTE ORIENTATION !



Outside holes for installed optional center dampener. (NOT INCLUDED)



3. FRONT SUSPENSION



PIVOT BALLS

#337250	STEEL	INCLUDED	
#337255	TITANIUM	OPTION	



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	RIGHT	MEDIUM	OPTION	
#342215-H	RIGHT	HARD	INCLUDED	
#342215-G	RIGHT	GRAPHITE	OPTION	
#342225	LEFT	MEDIUM	OPTION	
#342225-H	LEFT	HARD	INCLUDED	
#342225-G	LEFT	GRAPHITE	OPTION	



#980320-T TITAN PIN 3x20 (2)



#345210

FRONT WHEEL AXLE - HUDY SPRING STEEL™



#345270

CARBON FRONT AERODYNAMIC DISC 1.6mm - SET



BAG

03

337250	STEEL PIVOT BALL 8.4mm (2)	345260-K	ALU FRONT WHEEL LOCK - SWISS 7075 T6 - BLACK (2)
337253	COMPOSITE ADJUSTING NUT M10x1 (4)	345280	WHEEL SPRING (2)
342070	COMPOSITE SET OF BUSHINGS (2)	345292	ALU SHIM 12 x 15 x 2.5mm (4)
342215-H	EXTRA ECCENTRIC STEERING BLOCK FOR AERO DISC - RIGHT - HARD	901303	HEX SCREW SB M3x3 (10)
342225-H	EXTRA ECCENTRIC STEERING BLOCK FOR AERO DISC - LEFT - HARD	902308	HEX SCREW SH M3x8 (10)
342293	X8 CARBON EXTENSION FOR STEERING BLOCK (2)	941218	BALL-BEARING 12x18x4 RUBBER SEALED - OIL (2)
345072	FRONT ONE-WAY AXLE OUTDRIVE ADAPTER 27mm - HUDY SPRING STEEL™ (2)	980262	PIN 2.5x12 (10)
345212	ALU FRONT CVD DRIVE AXLE - SWISS 7075 T6 - HARD COATED	980320	PIN 3x20 (10)
345221	FRONT CVD DRIVE SHAFT 37mm - HUDY SPRING STEEL™		
345231	DRIVE SHAFT COUPLING - HUDY SPRING STEEL™		

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

3. FRONT SUSPENSION

2x

5mm Allen

TIP

Tighten the composite hex nuts using **HUDY Cross Wrench #107581**.

MOVE FREELY

MOVE FREELY

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.

4x

902308
SH M3x8

2x

LEFT

Market "L"

NOTE ORIENTATION

RIGHT

Market "R"

ASSEMBLED VIEW

3x8mm

4x

941218
BB 12x18x4

2x

12x18x4mm

CONCENTRIC INITIAL SETTING

ECCENTRIC

NOTE ORIENTATION

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

12x18x4mm

Composite set of bushings

2x

980262
P 2.5x12

2x

GR
GRAPHITE GREASE

2.5x12mm

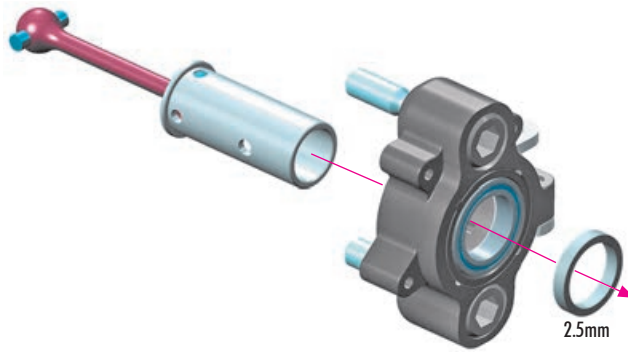
#345210
OPTION FRONT WHEEL AXLE
- HUDY SPRING STEEL™

3. FRONT SUSPENSION

10

2x 345292
12x15x2.5

2x L=R

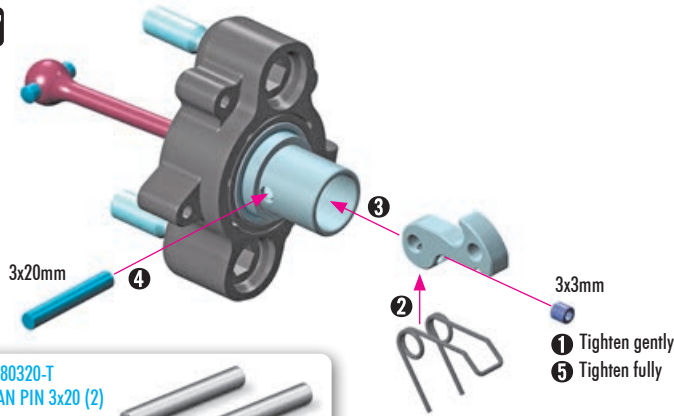


2x 901303
SB M3x3

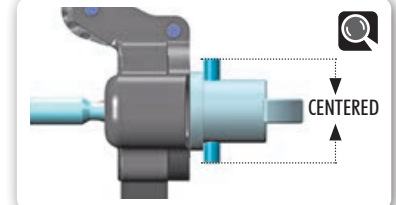
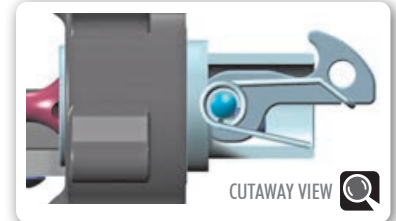


2x 980320
P 3x20

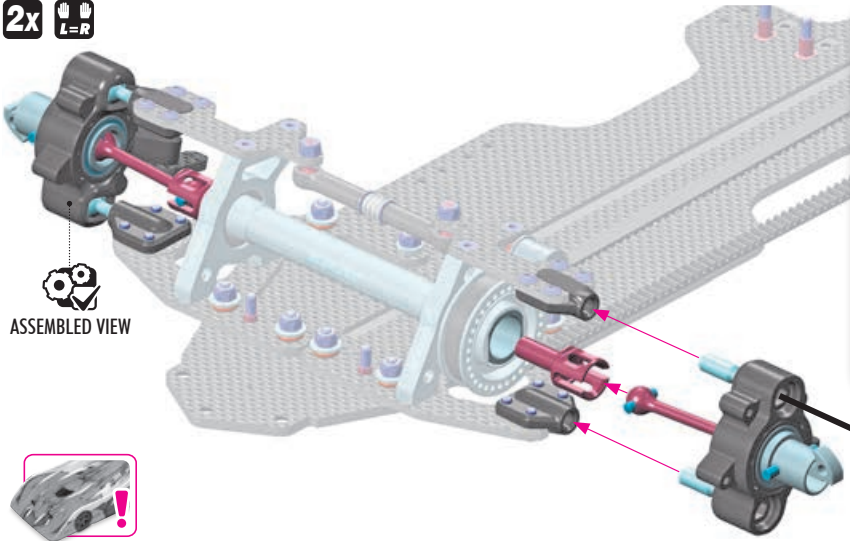
2x L=R



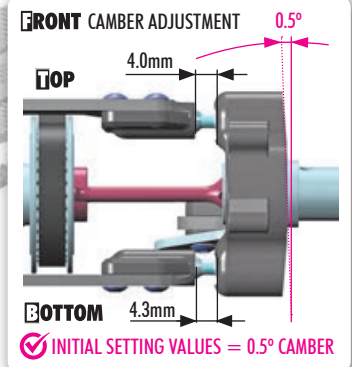
#980320-T
TITAN PIN 3x20 (2)
OPTION



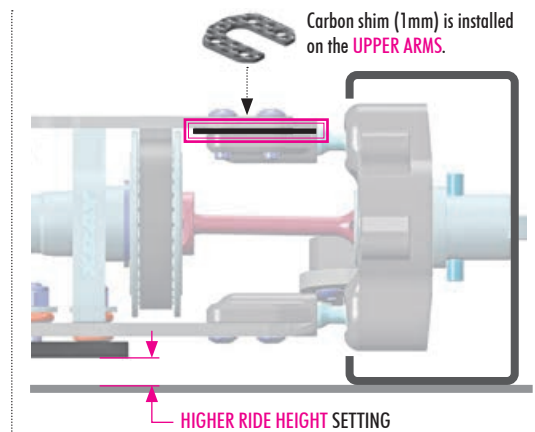
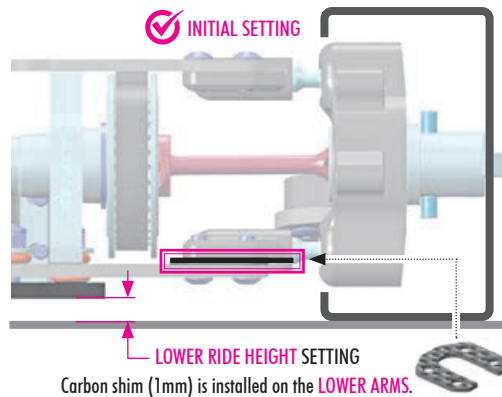
2x L=R



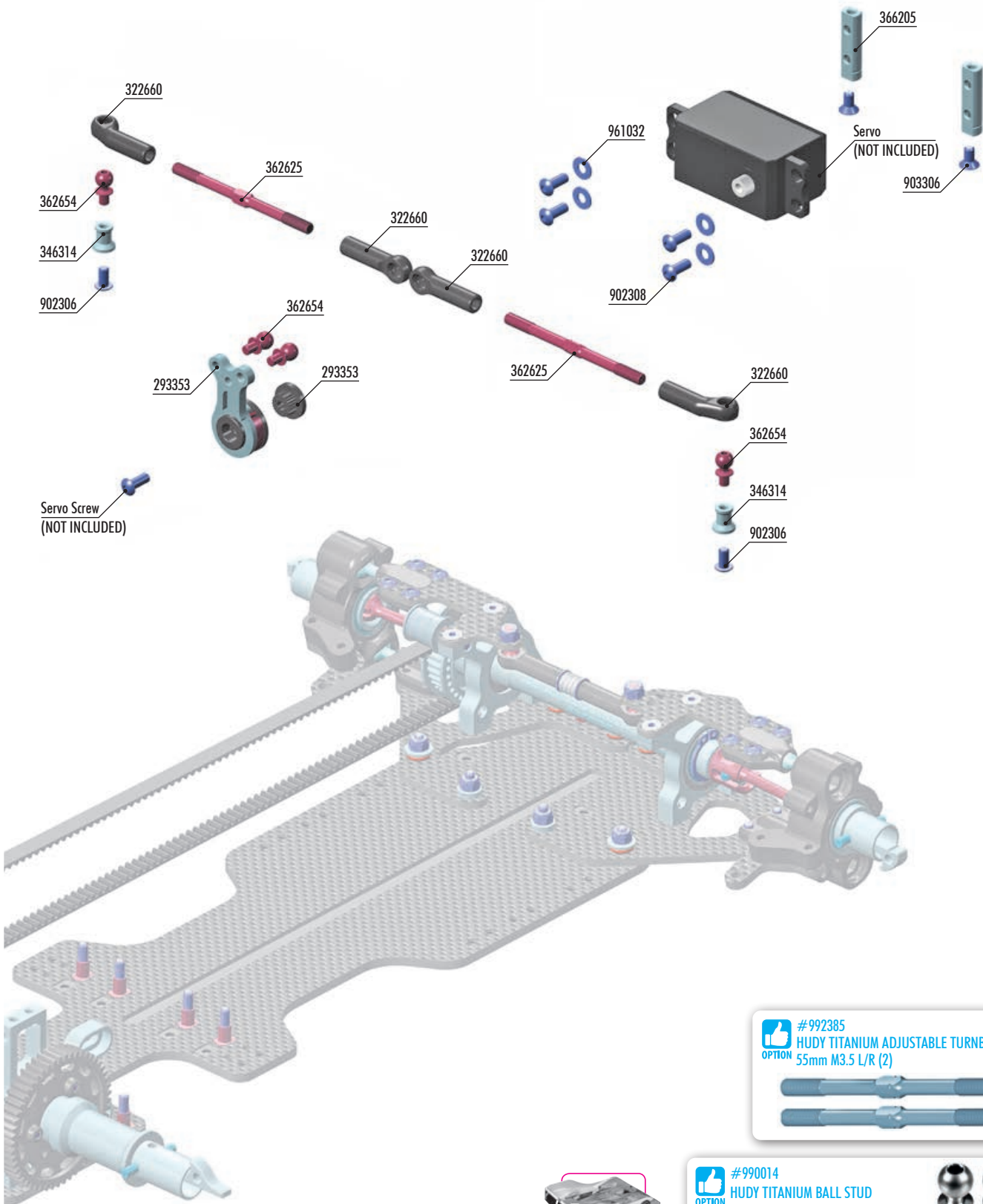
ASSEMBLED VIEW



FRONT RIDE HEIGHT ADJUSTMENT



4. SERVO SAVER



#992385
HUDY TITANIUM ADJUSTABLE TURNBUCKLE
 OPTION D=5.4 / L=4 / S=4.5 / 2mm Hex (2)

#990014
HUDY TITANIUM BALL STUD
 OPTION D=5.4 / L=4 / S=4.5 / 2mm Hex (2)



BAG
04

- 293353 X8 ALU SERVO SAVER - SET
- 322660 COMPOSITE BALL JOINT 5.4mm (12+1+1)
- 346314 X8 ALU MOUNT 7.5mm (2)
- 362625 ADJUSTABLE TURNBUCKLE 55MM M3.5 L/R - HUDY SPRING STEEL™ (2)
- 362654 HARD STEEL BALL END 5.4mm WITH THREAD 4mm - NICKEL COATED (2)
- 362658 HARD STEEL BALL END 5.4mm WITH THREAD 8mm - NICKEL COATED (2)
- 366205 ALU SERVO MOUNT 22mm - BOTH SIDES THREADED

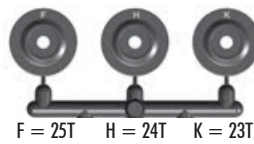
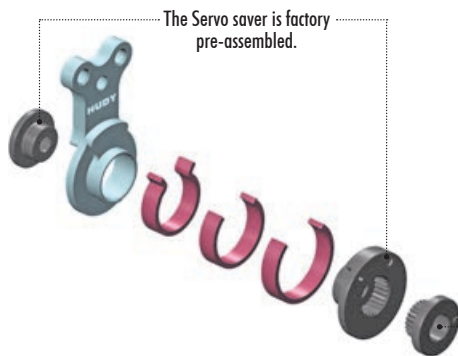
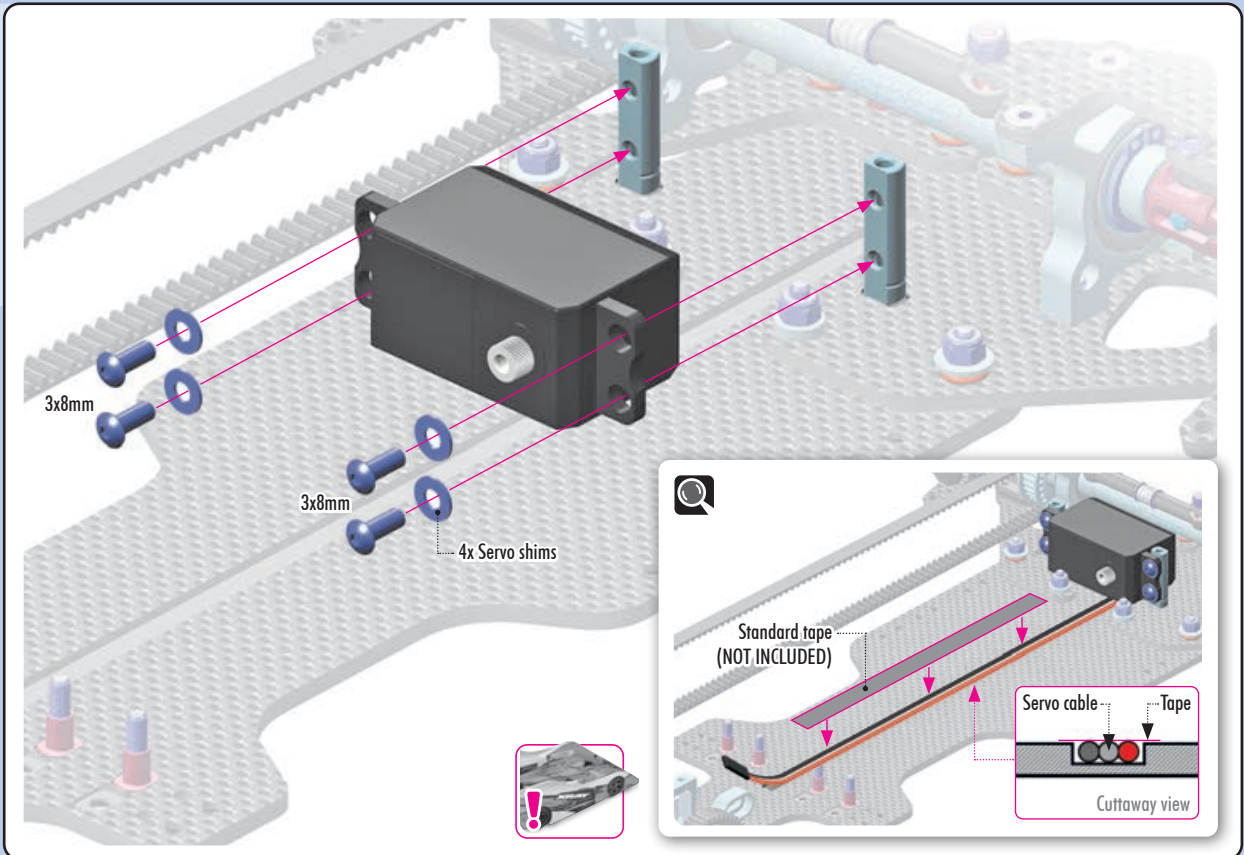
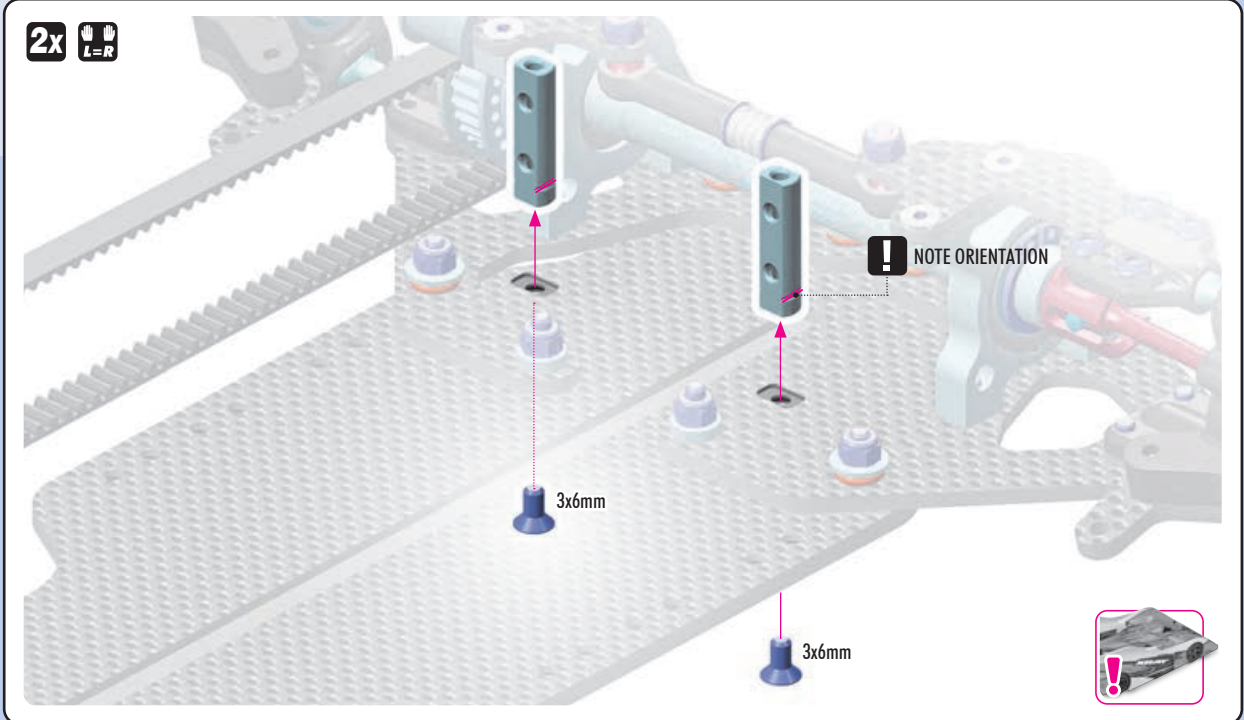
- 902306 HEX SCREW SH M3x6 (10)
- 902308 HEX SCREW SH M3x8 (10)
- 903306 HEX SCREW SFH M3x6 (10)
- 961032 WASHER S 3.2 (10)

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

4. SERVO SAVER



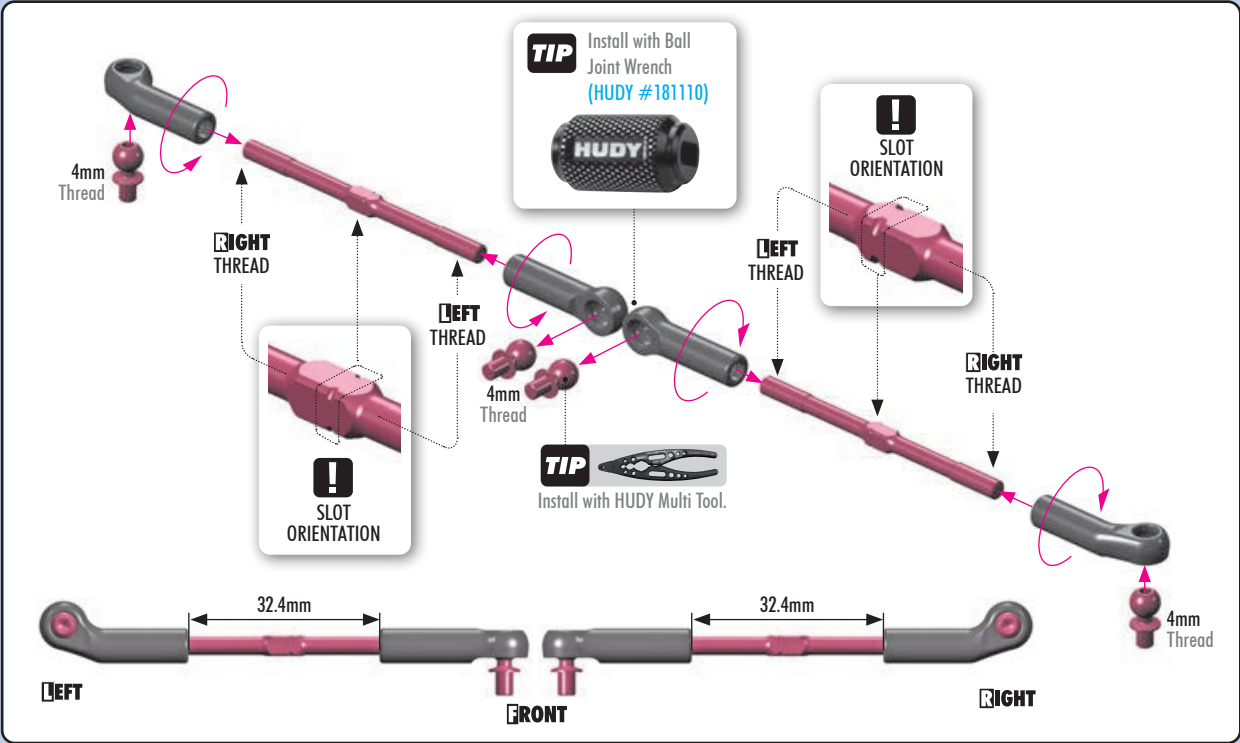
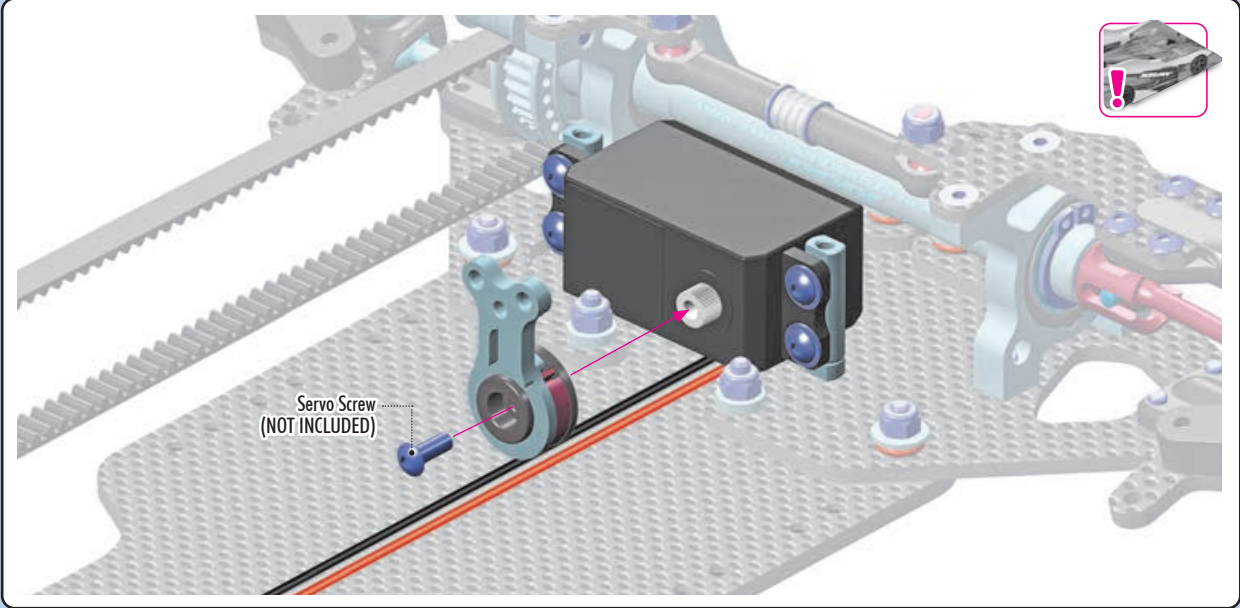
2x L-R



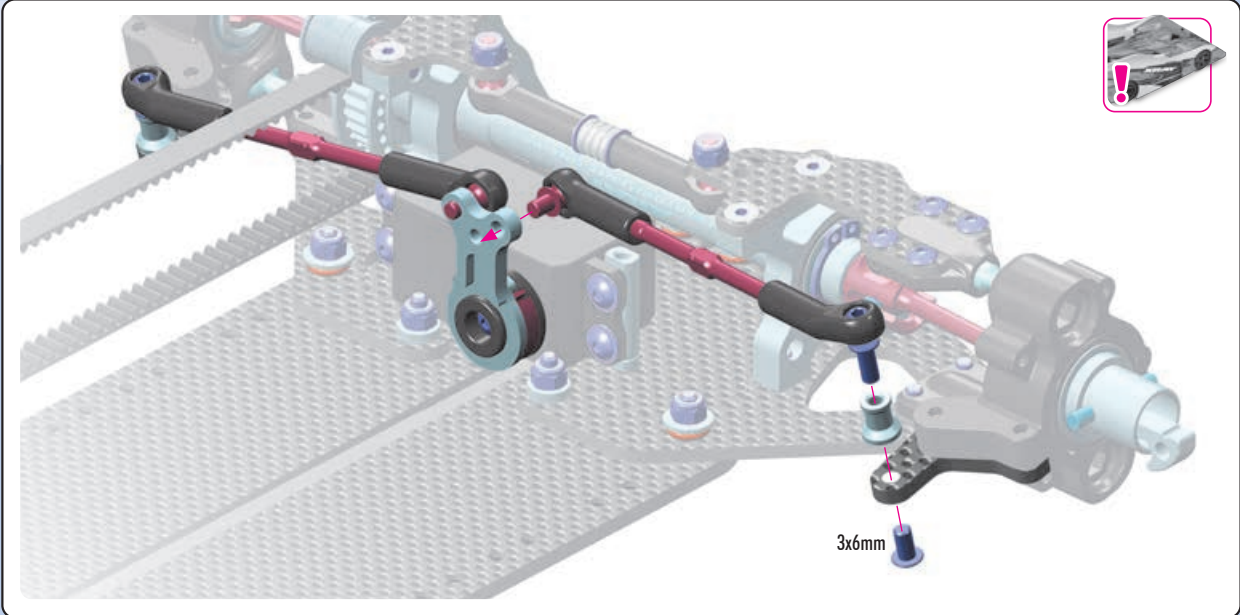
Use the adapter that matches the steering servo.



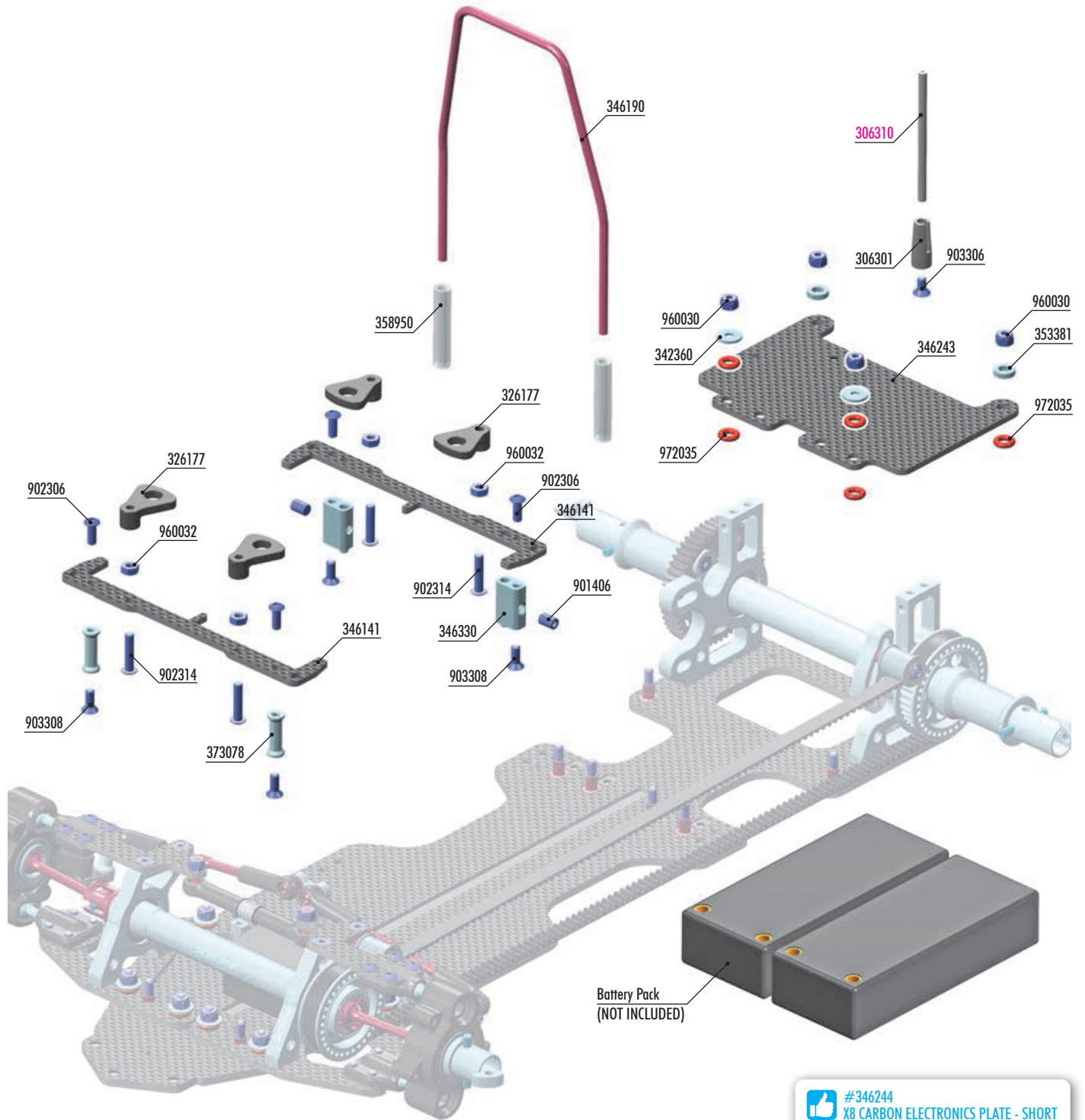
4. SERVO SAVER



2x 902306 SH M3x6



5. BATT. HOLDERS & ELECTRONICS PLATE



Battery Pack
(NOT INCLUDED)

#346244
X8 CARBON ELECTRONICS PLATE - SHORT
OPTION



BAG

05

- 306301 ANTENNA MOUNT - THIN
- 326177 COMPOSITE BATTERY CLAMP (2)
- 342360 ALU SHIM 3x8.8x1mm (10)
- 346141 X8 CARBON BATTERY HOLDER
- 346190 ROLL-OVER BAR - V2
- 346243 X8 CARBON ELECTRONICS PLATE
- 346330 X8 ALU ROLL-OVER BAR HOLDER - SWISS 7075 T6 (2)
- 353381 ALU SHIM 4x7.5x2 (4)
- 358950 SILICONE TUBING 1m (2.4 x 5.5mm)
- 373078 ALU MOUNT 15.5mm - BLACK (2)

- 901406 HEX SCREW SB M4x6 (10)
- 902306 HEX SCREW SH M3x6 (10)
- 902314 HEX SCREW SH M3x14 (10)
- 903306 HEX SCREW SFH M3x6 (10)
- 903308 HEX SCREW SFH M3x8 (10)
- 960030 NUT M3 (10)
- 960032 NUT M3 - BLACK (10)
- 972035 SILICONE O-RING 3.5x2 (10)

- 306310 ANTENNA (2)

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

5. BATT. HOLDERS & ELECTRONICS PLATE



1x 903306 SFH M3x6



2x 342360 SHIM 3x8.8x1



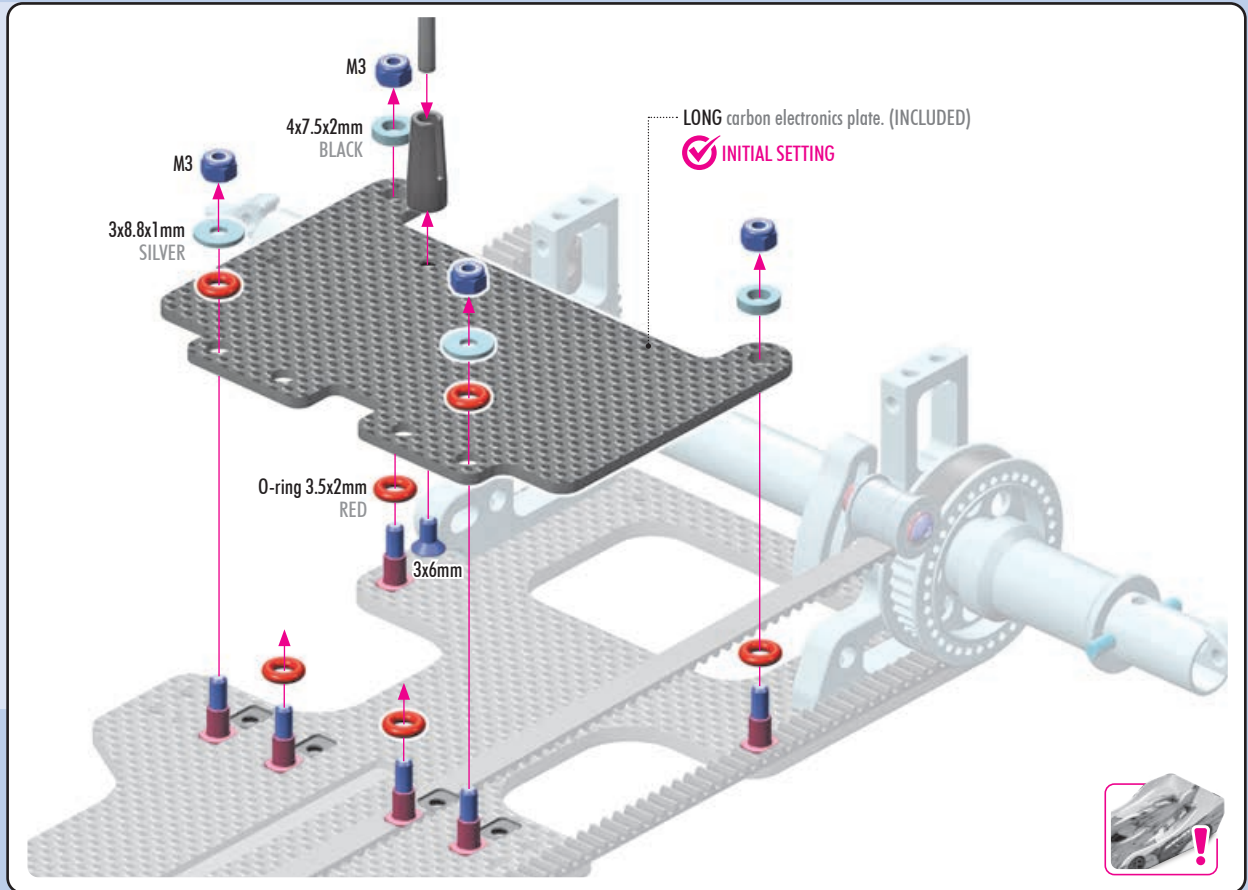
2x 353381 SHIM 4x7.5x2



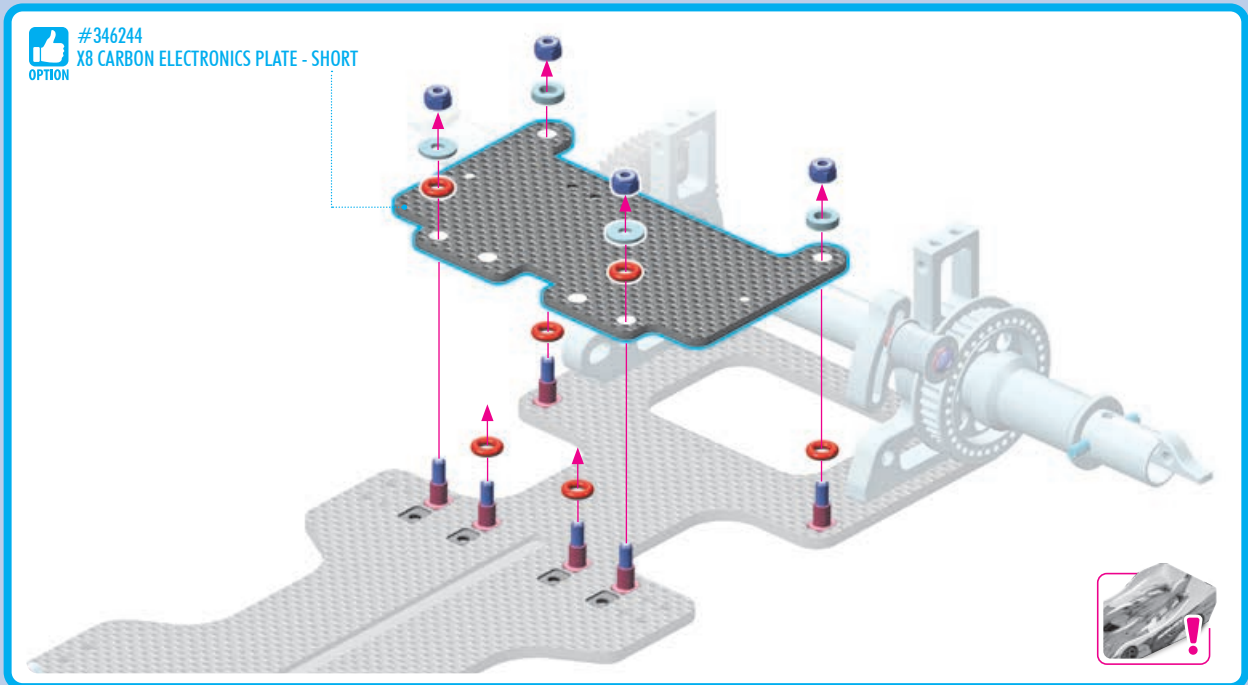
4x 960030 N M3



6x 972035 O 3.5x2



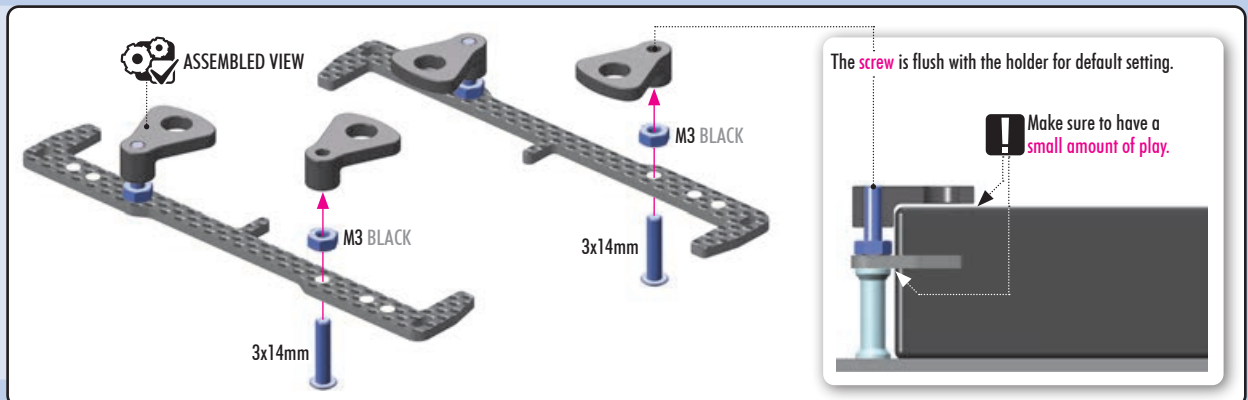
#346244 X8 CARBON ELECTRONICS PLATE - SHORT



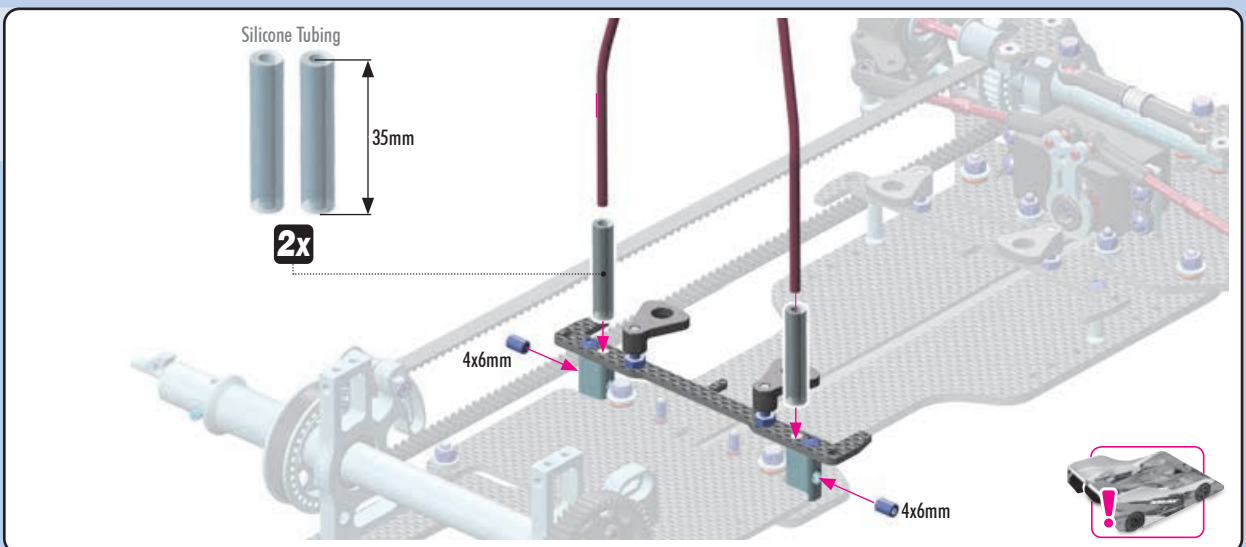
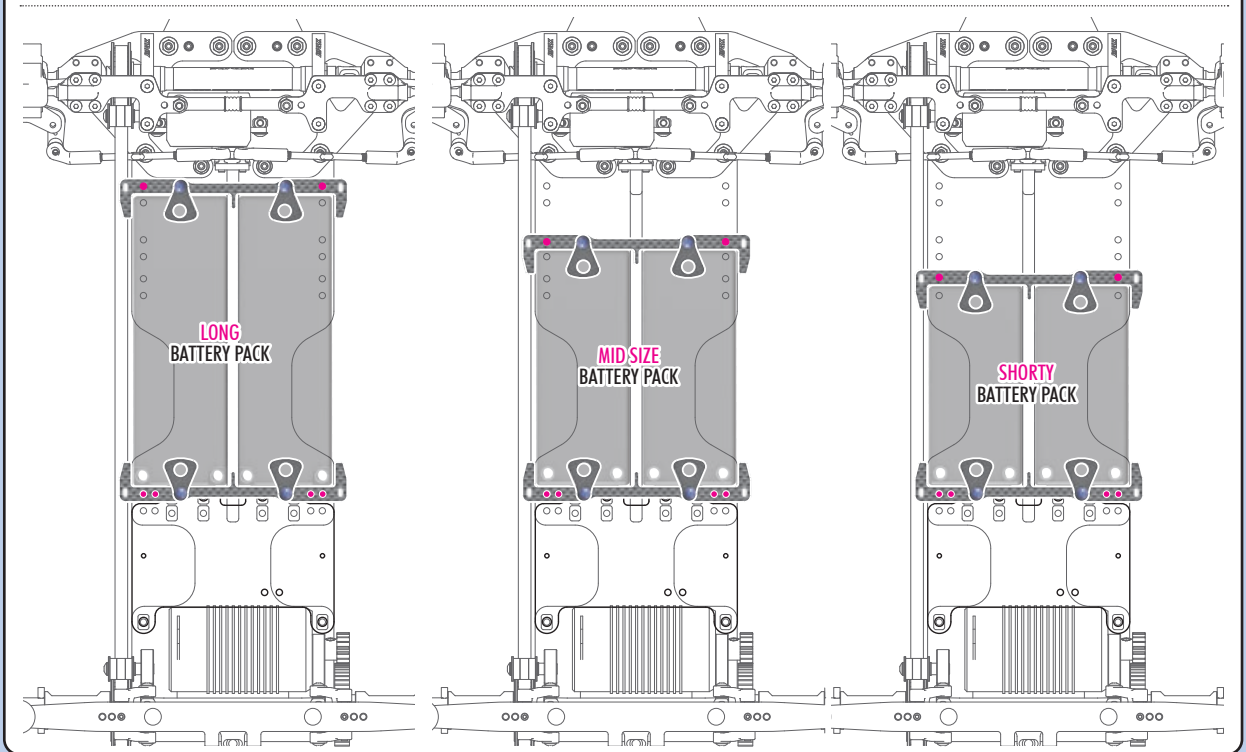
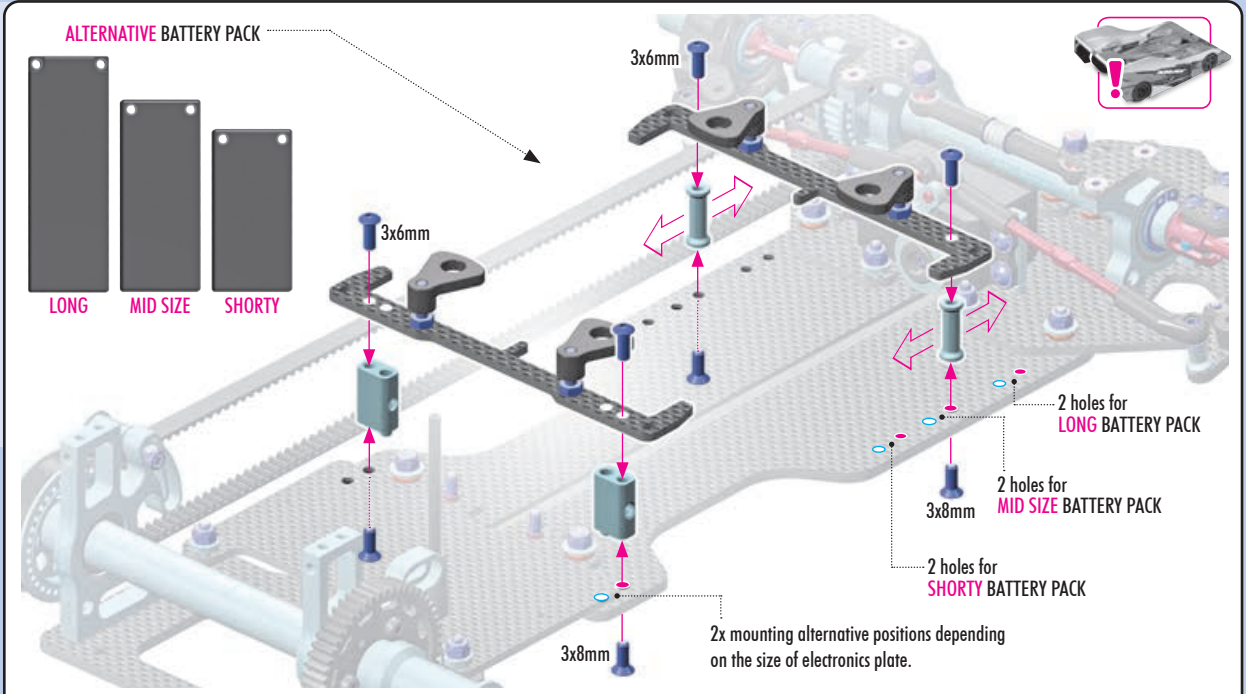
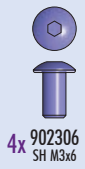
4x 902314 SH M3x14



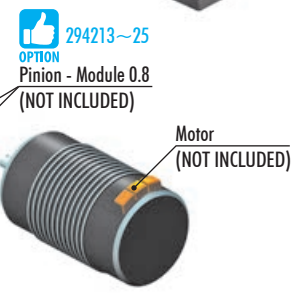
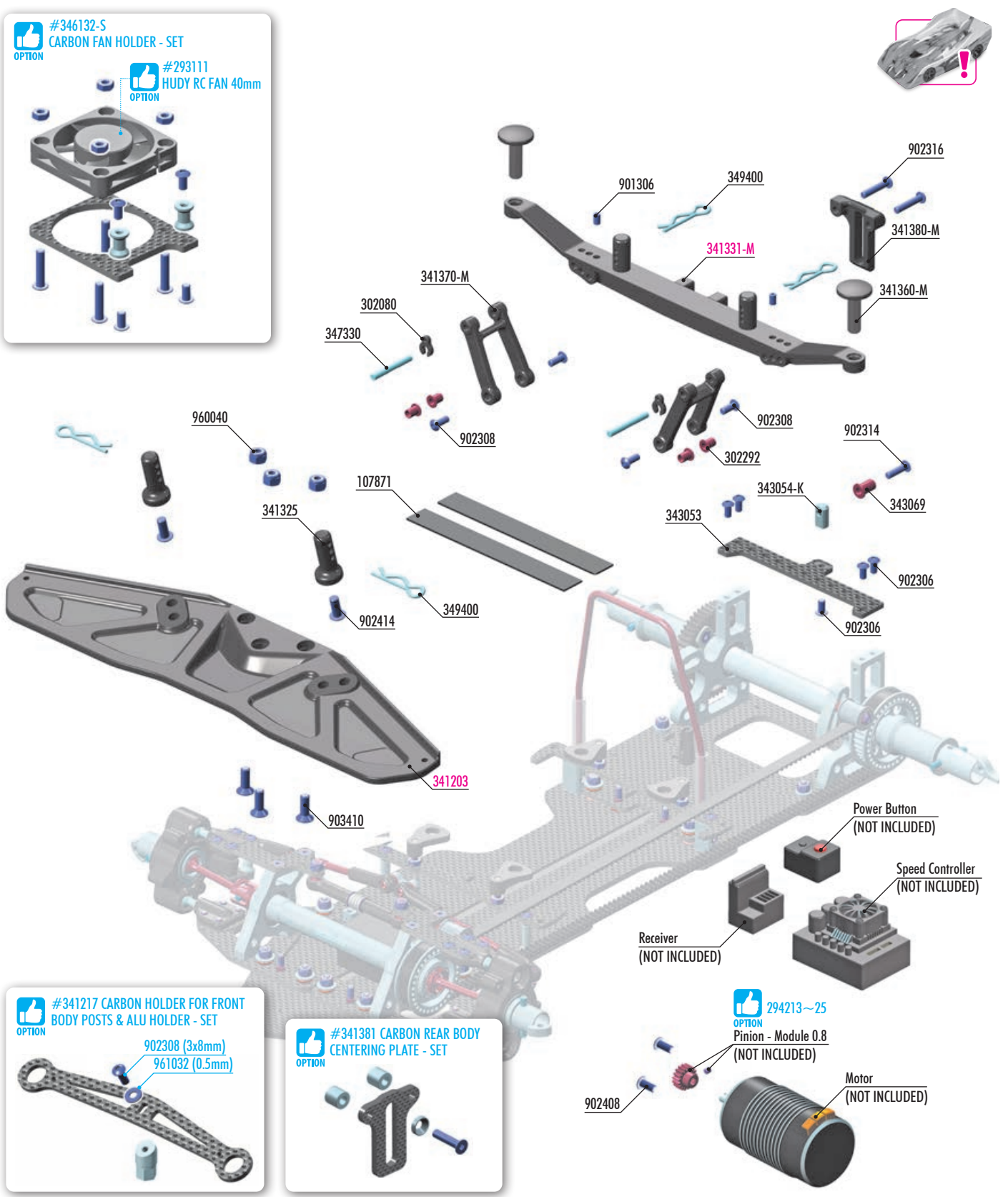
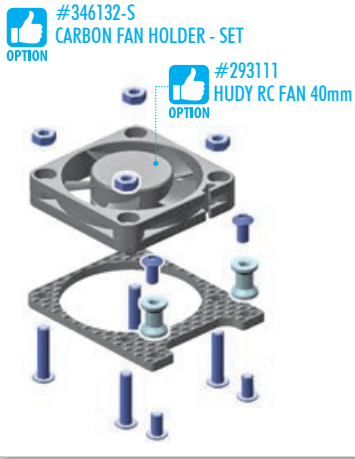
4x 960032 N M3



5. BATT. HOLDERS & ELECTRONICS PLATE



6. FRONT & REAR ASSEMBLY



BAG
06

- | | | | |
|----------|---|----------|--|
| 107871 | SELF-ADHESIVE FOAM STRIP (2) | 901306 | HEX SCREW SB M3x6 (10) |
| 302080 | COMPOSITE CASTER CLIPS SET 4+3+2+1mm (2) | 902306 | HEX SCREW SH M3x6 (10) |
| 302292 | STEEL STEERING BUSHING LONG (4) | 902308 | HEX SCREW SH M3x8 (10) |
| 341325 | X8 COMPOSITE FRONT BODY POST (2) | 902408 | HEX SCREW SH M4x8 (10) |
| 341360-M | COMPOSITE REAR BODY HOLDER SCREW - MEDIUM (2) | 902314 | HEX SCREW SH M3x14 (10) |
| 341370-M | COMPOSITE REAR BODY HOLDER ARM - MEDIUM | 902316 | HEX SCREW SH M3x16 (10) |
| 341380-M | COMPOSITE REAR BODY CENTERING PLATE - MEDIUM | 902414 | HEX SCREW SH M4x14 (10) |
| 343053 | X8 GRAPHITE REAR BULKHEAD BRACE | 903410 | HEX SCREW SFH M4x10 (10) |
| 343054-K | X8 ALU MOUNT FOR REAR BODY CENTERING PLATE | 960040 | NUT M4 (10) |
| 343069 | STEEL BUSHING (2) | | |
| 347330 | REAR BODY HOLDER ARM PIN (2) | 341203 | COMPOSITE BUMPER - DOWNFORCE |
| 349400 | BODY CLIP (10) | 341331-M | COMPOSITE REAR BODY HOLDER - HIGHER - MEDIUM |

Receiver
(NOT INCLUDED)

Power Button
(NOT INCLUDED)

Speed Controller
(NOT INCLUDED)

6. FRONT & REAR ASSEMBLY



2x 902414
SH M4x14

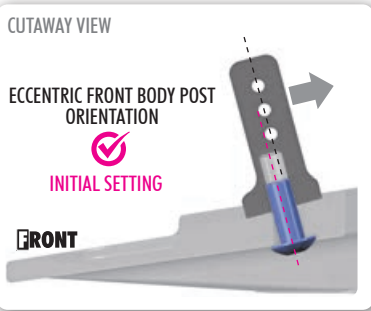
CUTAWAY VIEW

ECCENTRIC FRONT BODY POST
ORIENTATION



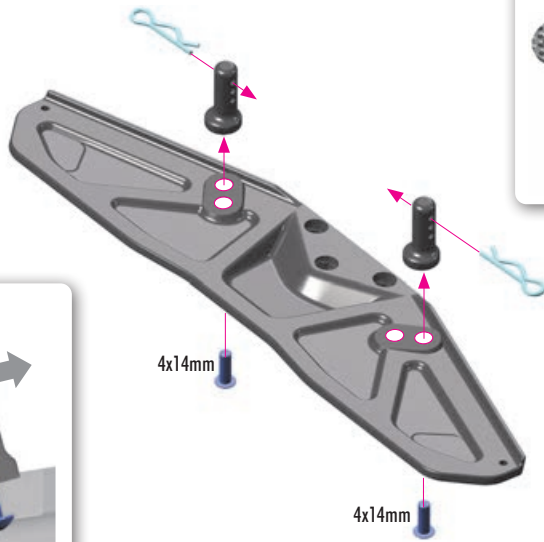
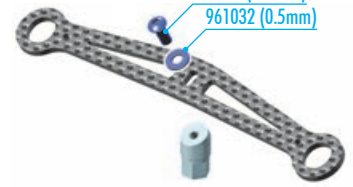
INITIAL SETTING

FRONT



#341217 CARBON HOLDER FOR FRONT
BODY POSTS & ALU HOLDER - SET
OPTION

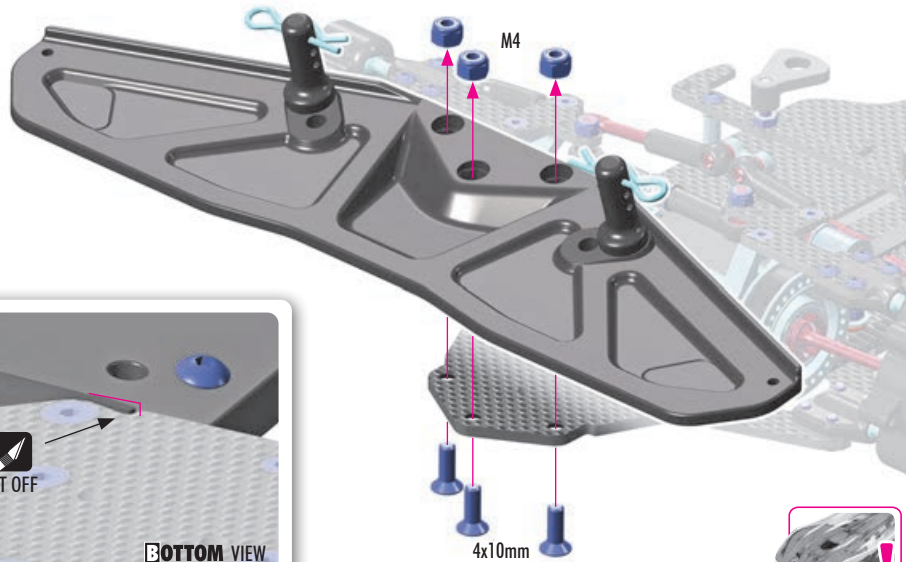
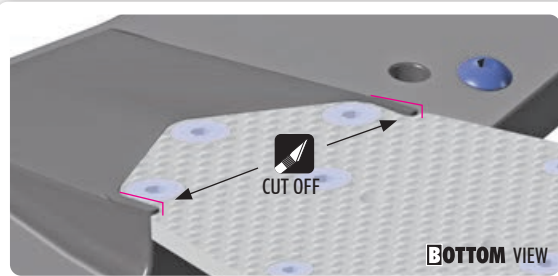
902308 (3x8mm)
961032 (0.5mm)



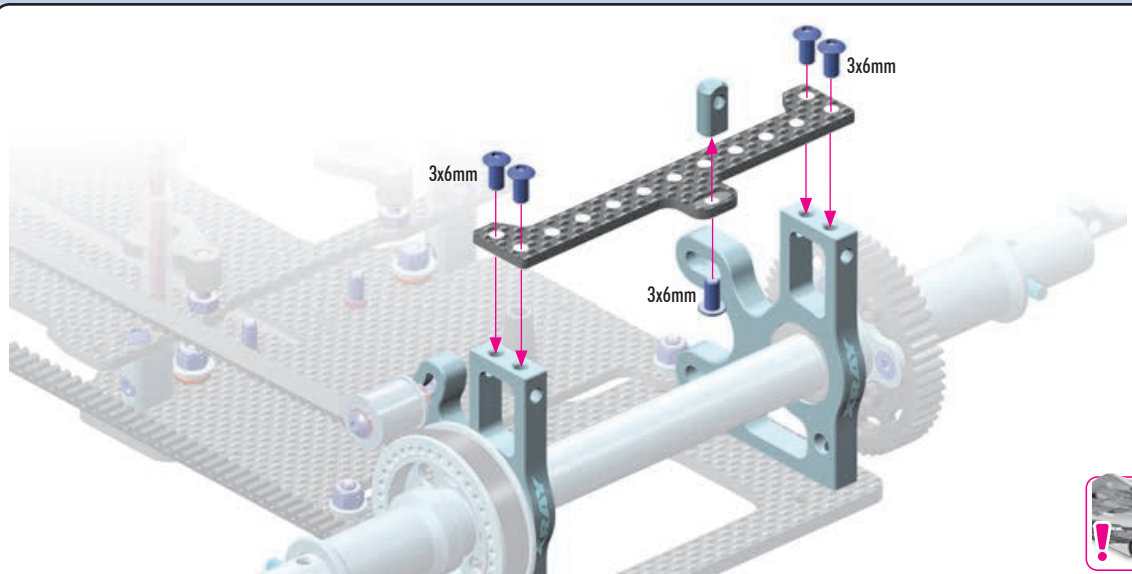
3x 903410
SFH M4x10



3x 960040
N M4



5x 902306
SH M3x6



6. FRONT & REAR ASSEMBLY



1

2x

2

2x

ASSEMBLED VIEW



! DO NOT USE OUTSIDE POSITIONS

2x

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.

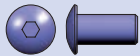
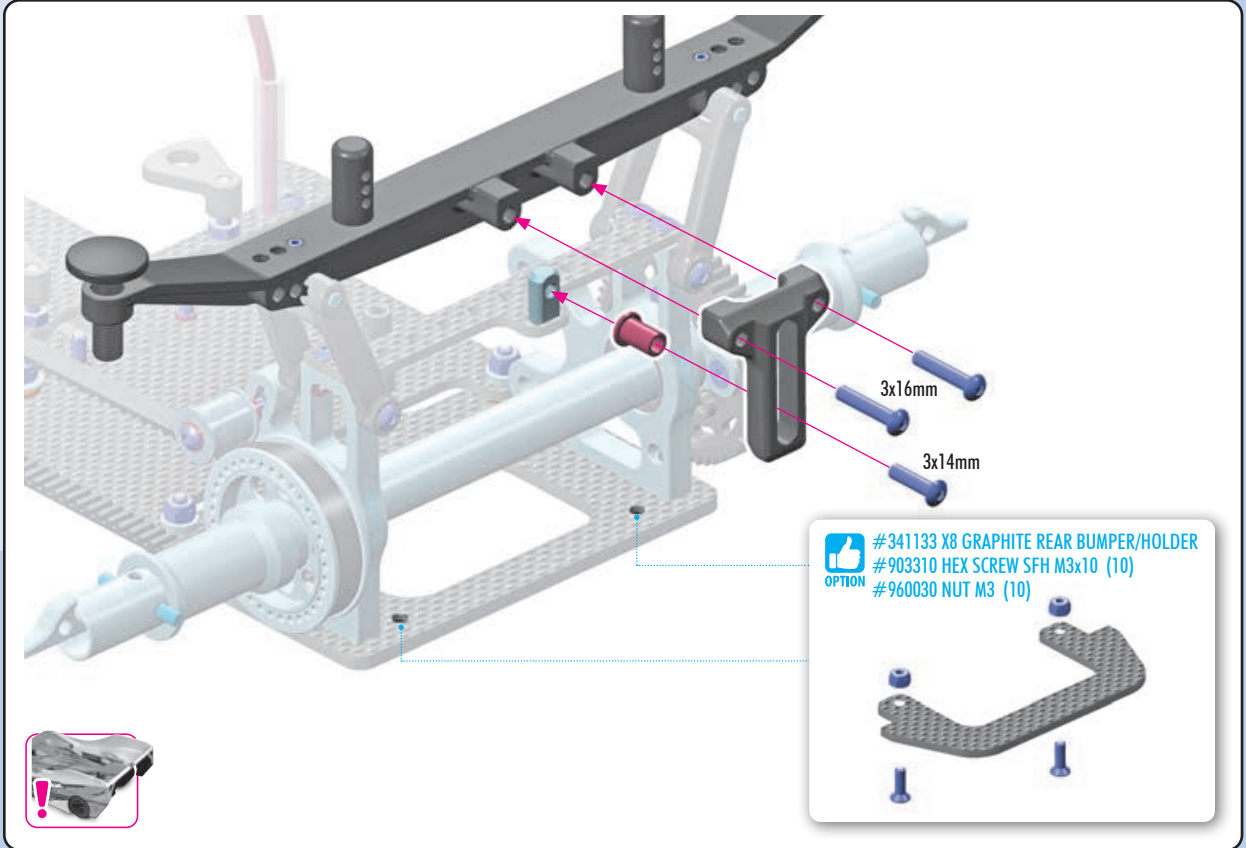
6. FRONT & REAR ASSEMBLY



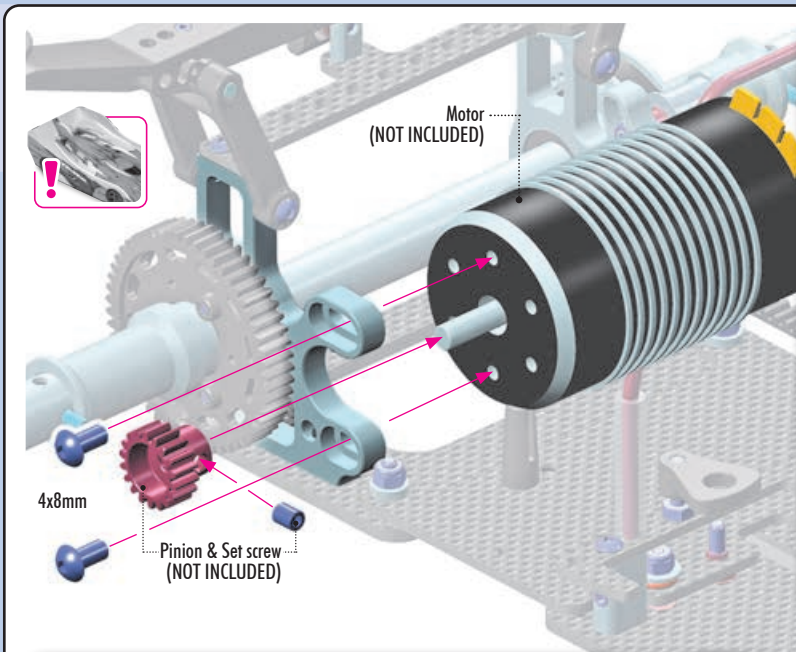
1x 902314 SH M3x14



2x 902316 SH M3x16

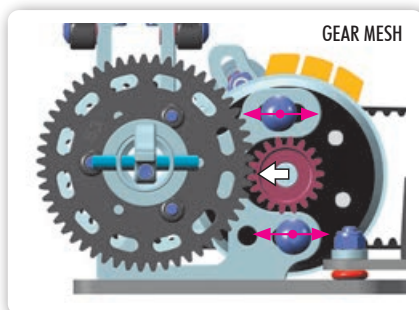
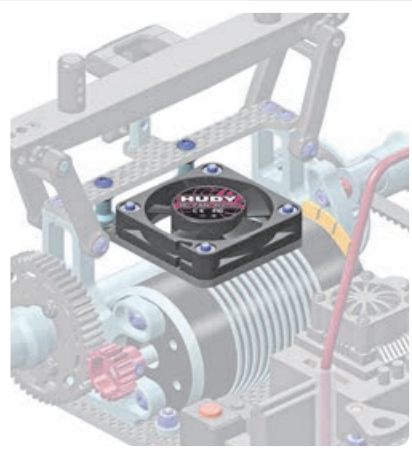
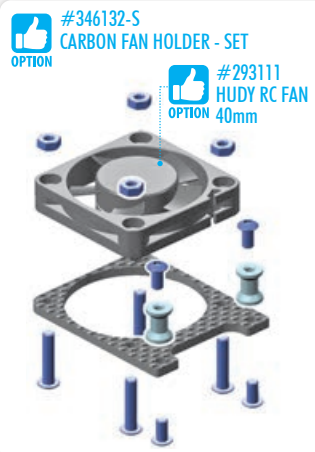


2x 902408 SH M4x8

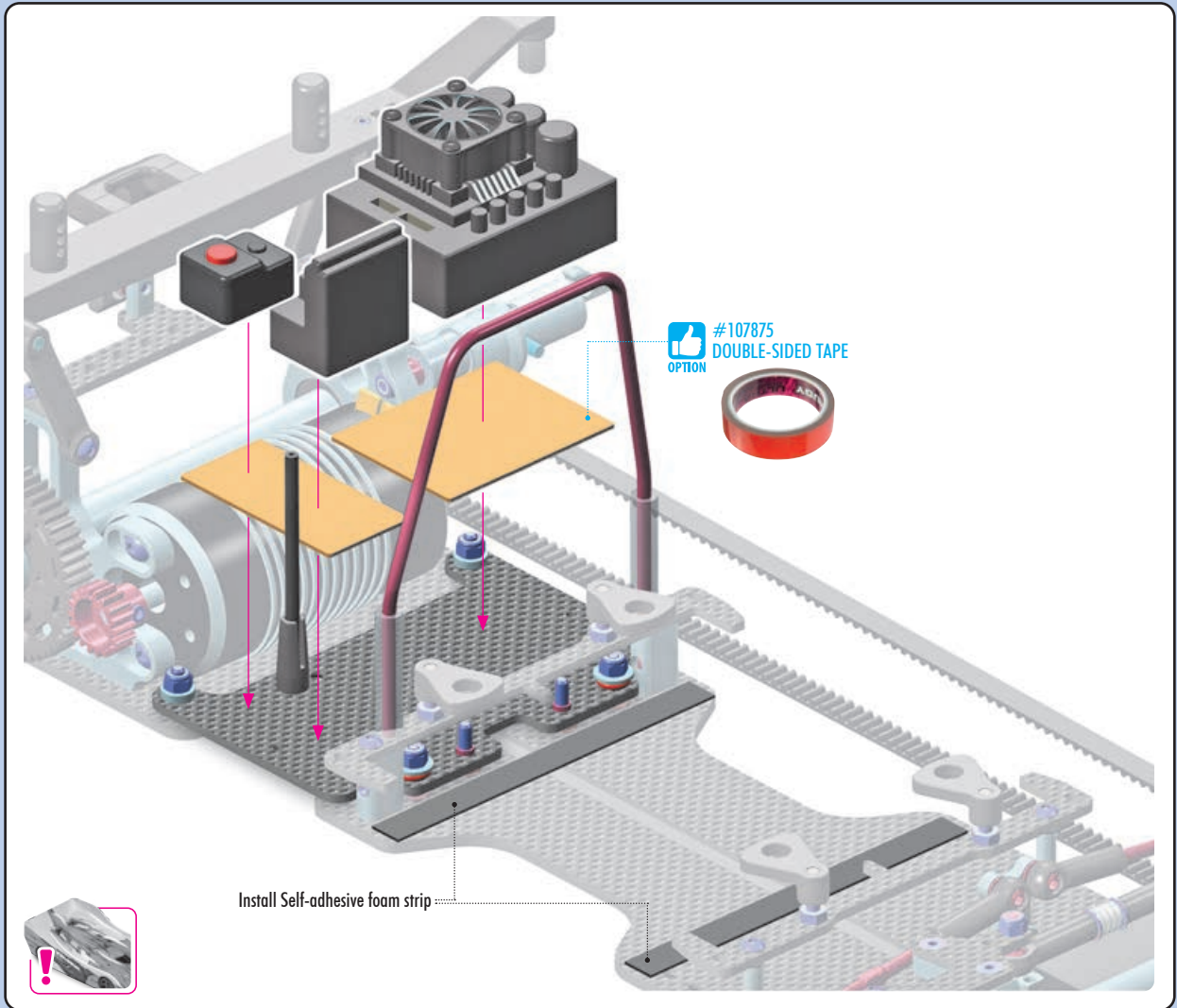


GEAR RATIO Final Drive Ratio **60 : X = FDR**
(Spur) (Pinion)

OPTION	ALU PINIONS (Mod 0.8)	STEEL PINIONS (Mod 0.8)
	#294253 13T	#294213 13T
	#294254 14T	#294214 14T
	#294255 15T	#294215 15T
	#294256 16T	#294216 16T
ALU	#294257 17T	STEEL #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



6. FRONT & REAR ASSEMBLY



#106220
HUDY Bearing Grease
OPTION



#106221
HUDY Bearing Grease "Blue"
OPTION



#106222
HUDY Bearing Grease "Red"
OPTION

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.



#106230
HUDY Bearing Oil
OPTION

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