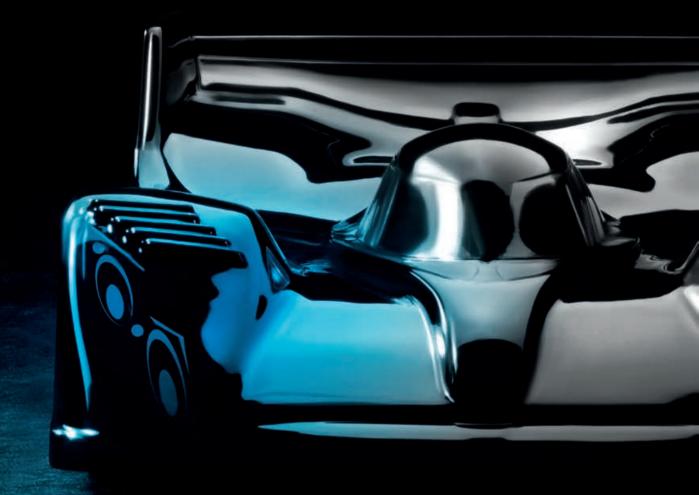
1/12 PAN CAR



INSTRUCTION MANUAL
FOR X12'26 EDITION

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.

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

Read carefully and fully understand the instructions before beginning assembly.

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

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

XRAY Europe

K Vystavisku 6992 91101 Trenčín Slovakia, EUROPE

Phone: 421-32-7401100 Fax: 421-32-7401109

E-mail: info@teamxrav.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.



A

IMPORTANT NOTES — ELECTRICAL

- Insulate any exposed electrical wiring (using heat shrink tubing or electrical tape) to prevent
 dangerous short circuits. Take maximum care in wiring, connecting and insulating cables.
 Make sure cables are always connected securely. Check connectors for if they become loose.
 And if so, reconnect them securely. Never use 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 excess the monetary value of this product.

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

Disregard of the any of the above cautions may lead to accidents, personal injury, or property damage.

XRAY MODEL RACING CARS assumes no responsibility for any injury, damage, or misuse of this product during assembly or operation, nor any addictions that may arise from the use of this product.

All rights reserved.

QUALITY CERTIFICATE

XRAY MODEL RACING CARS uses only the highest quality materials, the best compounds for molded parts and the most sophisticated manufacturing processes of TQM (Total Quality Management). We guarantee that all parts of a newly-purchased kit are manufactured with the highest regard to quality. However, due to the many factors inherent in model racecar

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

In line with our policy of continuous product development, the exact specifications of the kit may vary. In the unlikely event of any problems with your new kit, you should contact the model shop where you purchased it, quoting the part number.

We do reserve all rights to change any specification without prior notice. All rights reserved.



TOOLS REQUIRED



Ball Joint Wrench (HUDY #181110)







for Turnbuckles, Nuts (HUDY #181090)



HUDY Tweezers Curved (HUDY #188971)

HUDY Tweezers Straight (HUDY #188970)



NOT INCLUDED



国際特殊国

Alexander Hagberg (Factory Driver)

When a QR CODE is found in the instruction manual, scan the code to be directed to an online video that explains that feature or adjustment in more detail. Make sure to watch all of the instructional videos to get the most performance out of your car.



| SAMPLE O | F OPTIO | NAL PARTS |
|----------|---------|-----------|
| #37XXXX | TYPE1 | OPTION 1 |
| #37XXXX | TYPE2 | OPTION 2 |
| #37XXXX | TYPE | INCLUDED |

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:

371200 STYLE A - indicates parts that are included in the bag marked for the section.

371100 STYLE B - indicates parts that are included in the box.

378100 STYLE C - indicates parts that are already assembled from previous steps.

374900 STYLE D - indicates parts that are optional.

INCLUDED

* Kit includes smaller but sufficient amount of oil and grease to build the car.



10.000cSt (#106510) **HUDY Premium Silicone Oils**

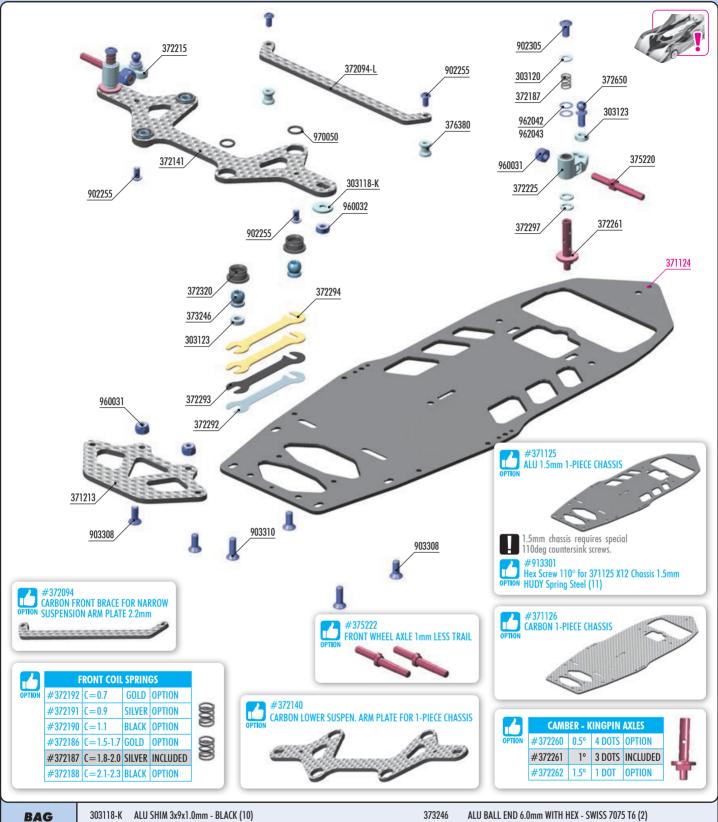






ALSO REQUIRED

| Transmitter | Receiver | Speed Controller | Steering Servo |
|-----------------------------------------------|----------------|------------------|----------------------------------|
| | | | 800 |
| Electric Motor & Pinion Gear with Setscrew | LiPo Battery | Battery Charger | Bearing Oil (HUDY #106230) |
| | | 101:000 | OPTION V |
| Tires | 1/12 Bodyshell | Lexan™ Paint | Double-sided Tape (HUDY #107875) |
| | | | UTION |







| 303118-K | ALU SHIM 3x9x1.0mm - BLACK (10) |
|----------|---------------------------------------------------------------|
| 303120 | SET OF ALU SHIM (0.5mm, 1.5mm, 2.5mm) |
| 303123 | ALU SHIM 3x6x2.0mm (10) |
| 371213 | CARBON BUMPER LOWER HOLDER FOR 1-PIECE CHASSIS |
| 372094-L | CARBON FRONT BRACE FOR NARROW SUSPENSION ARM PLATE 1.6mm |
| 372141 | CARBON LOWER SUSPENSION ARM PLATE $+1$ mm for 1-piece chassis |
| 372187 | FRONT COIL SPRING FOR 4mm PIN C=1.8-2.0 - SILVER (2) |
| 372215 | ALU STEERING BLOCK WITH TEFLON SLEEVE - RIGHT |
| 372225 | ALU STEERING BLOCK WITH TEFLON SLEEVE - LEFT |
| 372261 | KINGPIN 4mm WITH HOLES - 1.0° - 3 DOTS - NICKEL COATED (2) |
| 372292 | STEEL SHIM 0.2mm - SILVER (2) |
| 372293 | STEEL SHIM 0.4mm - BLACK (2) |
| 372294 | STEEL SHIM 0.6mm - GOLD (2) |
| 372297 | ALU SHIM 4x6x1.0mm (10) |
| 070000 | COMPOSITE AND PUBLISHED (4) |

COMPOSITE ARM BUSHING (4)

BALL END 4.2mm WITH 6mm THREAD (2)

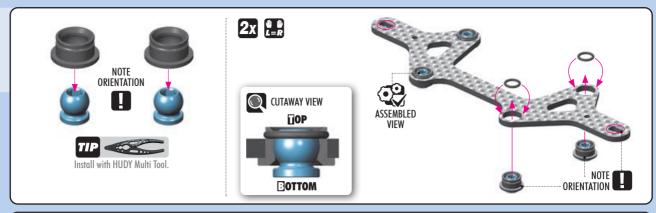
| 373246 | ALU BALL END 6.0mm WITH HEX - SWISS 7075 T6 (2) |
|--------|-------------------------------------------------|
| 375220 | FRONT WHEEL AXLE (2) |
| 376380 | ALU MOUNT 6.0mm WITH 2.5mm THREAD - BLACK (2) |
| | |
| 902255 | HEX SCREW SH M2.5x5 (10) |
| 902305 | HEX SCREW SH M3x5 (10) |
| 903308 | HEX SCREW SFH M3x8 (10) |
| 903310 | HEX SCREW SFH M3x10 (10) |
| 960031 | ALU NUT M3 (10) |
| 960032 | NUT M3 (10) |
| 962042 | WASHER'S 4x6x0.1 (10) |
| 962043 | WASHER S 4x6x0.2 (10) |
| 970050 | 0-RING 5x1 (10) |
| | , , |
| 371124 | ALU 1-PIECE CHASSIS 2.0mm - SWISS 7075 T6 |
| | |

372297

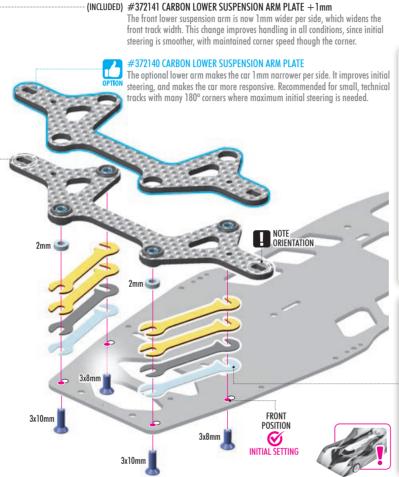
372320

372650













The optional carbon chassis is recommended for low- to medium traction outdoor asphalt tracks, and for very low

RIDE HEIGHT AND CASTER ADJUSTMENT

traction carpet tracks.

The number of washers and shims used affects the ride height and caster of the car, so determine the proper amount of shimming based on the tire diameter and desired caster.

CASTER





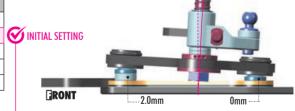
CASTER ADJUSTMENT



MORE CASTER increases front traction, espeicially on-power. More likely to traction roll.

 LESS CASTER reduces front traction, especially on-power. Less likely to traction roll.

| SHIM DIFFERENCE | CASTER |
|-----------------|--------|
| 1mm | 1.5° |
| 2mm | 3° |
| 3mm | 4.5° |
| 4mm | 6° |
| 5mm | 7.5° |



ightharpoonup 2.0mm FRONT shim - 0mm REAR shim = 2.0mm shim difference = 3° Caster

FRONT POSITION ALTERNATIVE LONG WHEELBASE



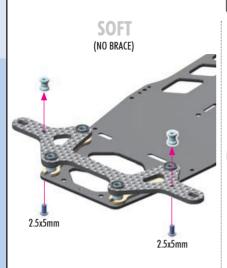
LONG wheelbase is recommended for larger tracks with long sweepers. Makes the car more stable and easier to drive.

FRONT WHEELBASE ADJUSTMENT

REAR POSITION ALTERNATIVE SHORT WHEELBASE

SHORT wheelbase allows the car to rotate better in corners to maintain cornering speed. Recommended for tight, technical tracks or tracks with several 180° hairpin corners.

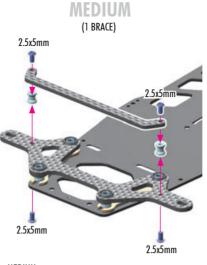




SOFT

Makes the car initially less responsive, but will provide more mechanical traction. Recommended for low-traction carpet conditions, and asphalt tracks.

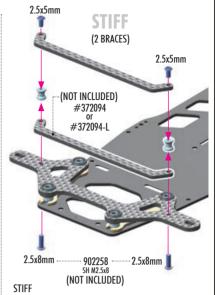
FRONT SUSPENSION FLEX SETTING



MEDIUM



Brace mounted to the carbon arm with posts provides a balance between initial response and mechanical traction. Recommended for most track conditions.



Both braces mounted to the carbon arm give maximum responsiveness but decrease mechanical traction. Recommended for high-traction track conditions. (such as US black carpet).



The kit front suspension brace is now 1.6mm, instead of the previous 2.2mm, for an improved handling & overall feel of the car.



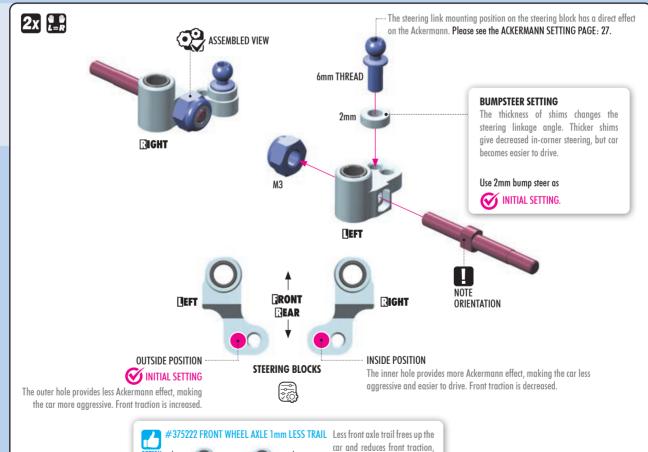
Optional 2.2mm front suspension brace stiffens the front lower arm, which makes the car more initially responsive, reduces chassis roll, and helps to increase cornering speed for spec classes on high-grip surfaces.





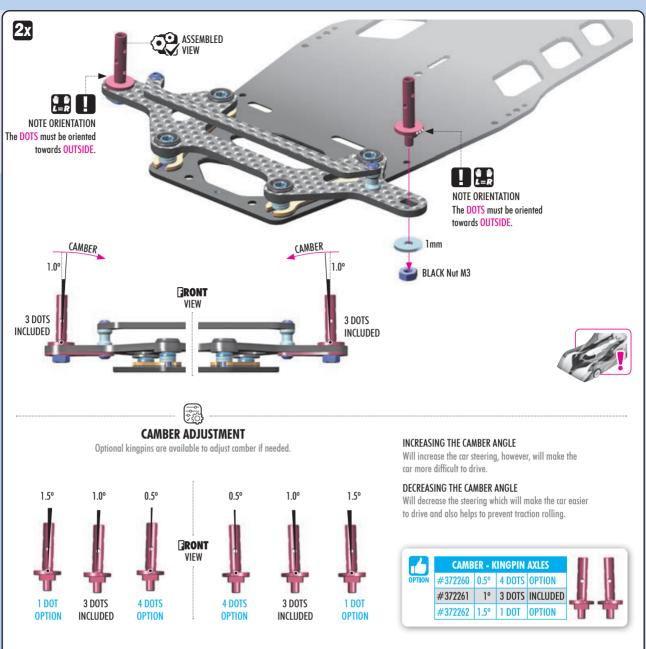




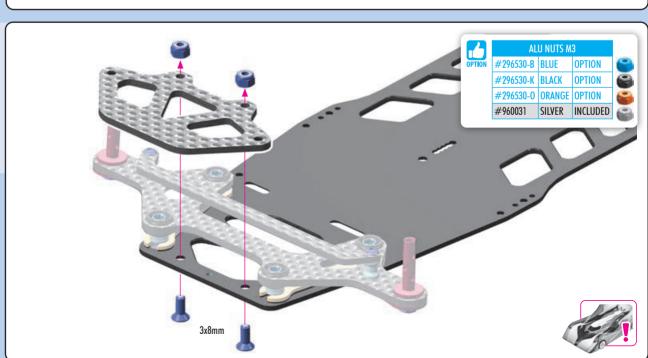


improving cornering speed for all classes. It is particularly useful for spec classes on high traction black carpet.









2x 303120 SHIM 3x6x0.5





2x 902305

2x 962042 S 4x6x0.1





TIF Alexander Hagberg (Factory driver)

RIDE HEIGHT AND DROOP ADJUSTMENT SHIMS:

The ride height is adjusted with the supplied long shims that can be fitted under the arms (silver/black/gold). I recommend using as low of a ride height as you possibly can, unless you race on a bumpy or rough surface, then the car can benefit from having a slightly higher ride height, to increase stability, and improve the handling over humps.

The front axle height can be adjusted with shims under the steering block. You can't change the roll center on the front end of the X12, simply because there is no upper arm. Adding shims under the steering block (raising the steering block) will raise the front axle height, and at the same time, decrease bump steer. Removing shims will lower the steering block, and increase bump steer. For more information about Ackermann & Bumpsteer, see PAGE 27 (servo mounting).

I recommend using the kit shimming for the front steering block this will be a good basic setting for most conditions.



FRONT DROOP ADJUSTMENT

Front droop is adjusted by the preload of the front spring. More shims between the steering block and the spring will increase preload - and decrease droop. Removing shims will have the opposite effect.



Above steering block (0.3mm)

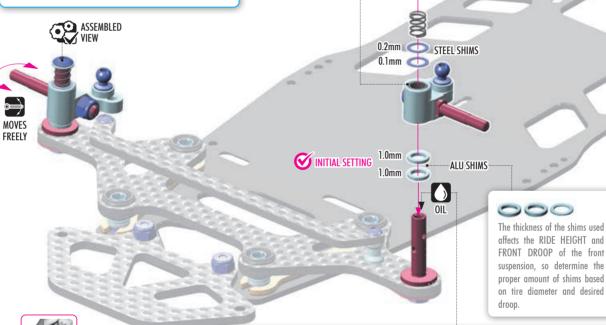
Below steering block (2.0mm)

MORE DROOP will make the car initially less responsive, but it will give the car more front traction, especially in the middle of the corner. The car will be less precise and more difficult to drive, because of increased roll. More droop is best suited for low- to medium-traction carpet, or asphalt tracks.

LESS DROOP will decrease roll but the car will change direction faster. Less droop is best suited for high-traction surfaces such as US black carpet, especially when traction rolling is an issue and particularly when a rear solid axle is used.

3x5mm

0.5mm









HEIGHT



SOFTER SPRINGS

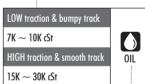
Make the car easier to drive over bumps and increase steering as they make the car roll more, especially in the middle of a corner.

HARDER SPRINGS

Make the car more responsive and increase initial steering. Recommended for high-traction and flat

The kingpins with hole maintain consistent dampening from the continuous oil film between the kingpin and steering block. Fill the kingpin from the top before installing the steering block and retaining screw.

Recommended to check and re-fill the kingpin fluid once per race day, or every 5 runs, whichever comes first.



use HUDY Silicone Oil



FRONT DAMPING SETTING

The Front Damping Setting is adjusted using different viscosity of oils.

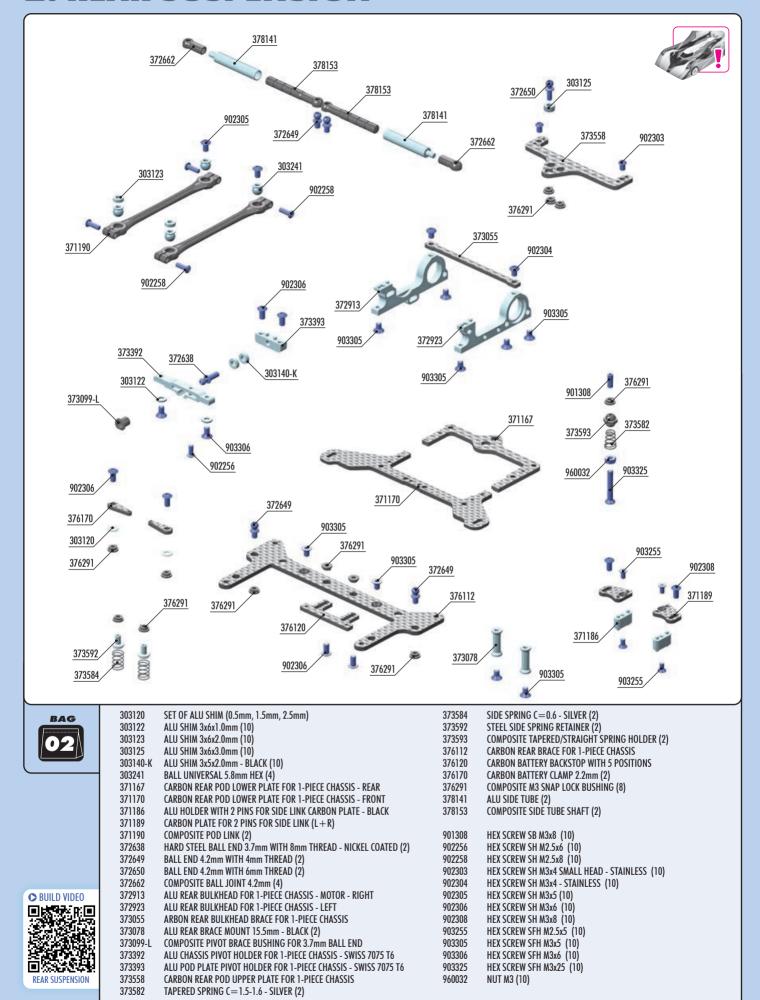
Makes the car more responsive but also more difficult to drive. Thinner oil increases cornering speed. Recommended for low-traction tracks.

Makes the car less responsive but easier to drive. Thicker oil also increases stability, but decreases cornering speed. Recommended for high-traction tracks.

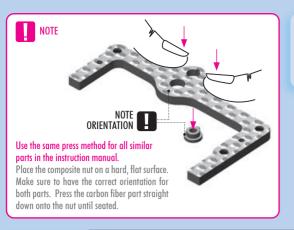


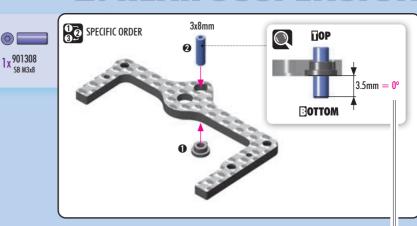
10K cSt

(INCLUDED)



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





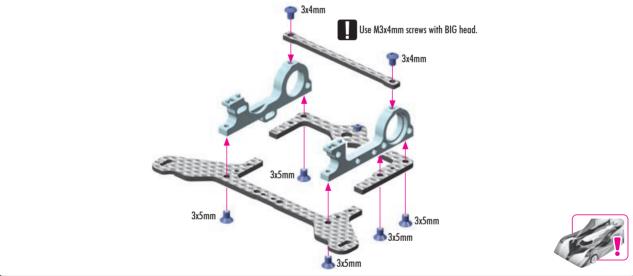
increases rear traction.



POD ANGLE Adjustment

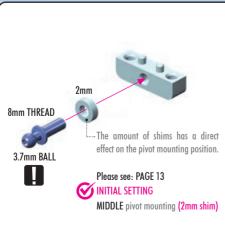




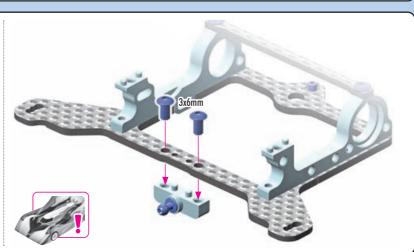


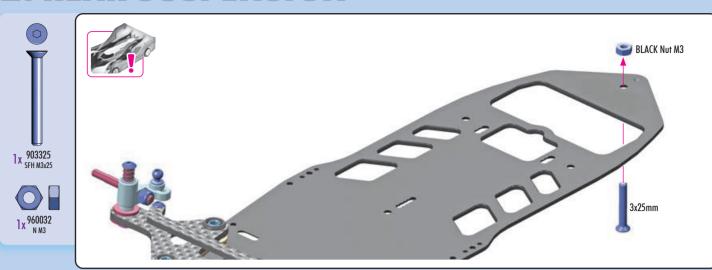


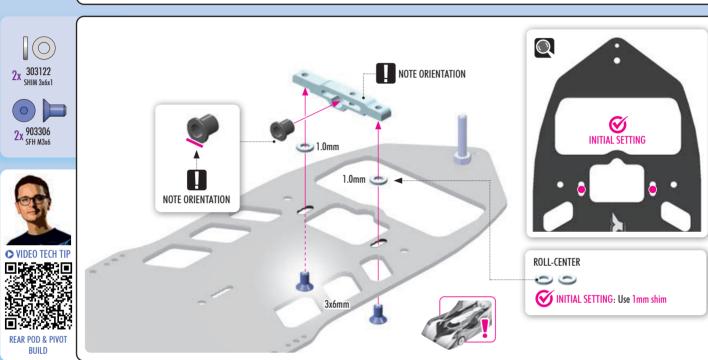
REAR POD & PIVOT BUILD

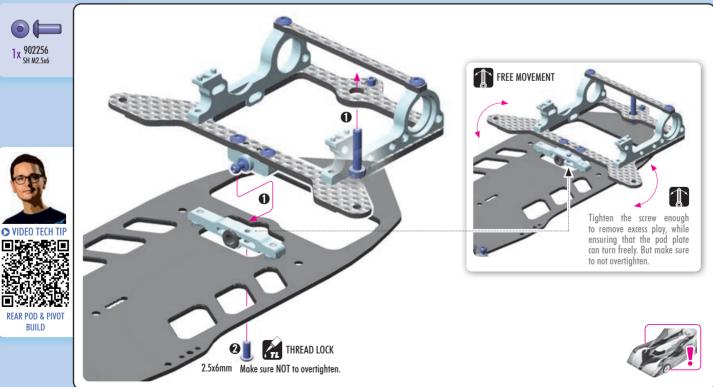


decreases rear traction









1x 303140-K SHIM 3x5x2

PIVOT MOUNTING ALTERNATIVE

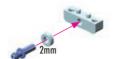
MIDDLE: WINITIAL SETTING

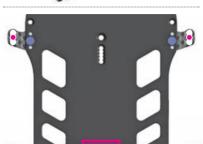
REARWARD:

Pivot mounted in rear chassis holes with no ball stud shims. Improved rotation from shorter rear pod geometry. Provides most initial steering and rotation; best suited for high traction carpet tracks.





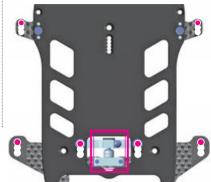




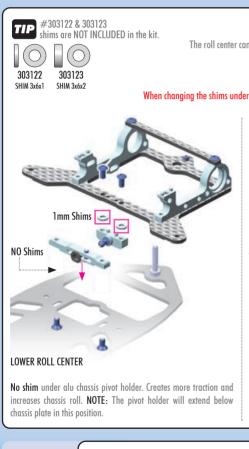
FORWARD:

Pivot mounted in forward chassis holes with **4mm** ball stud shims. Creates the most forgiving handling that allows more aggressive driving without fear of losing rear traction.

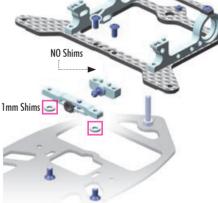


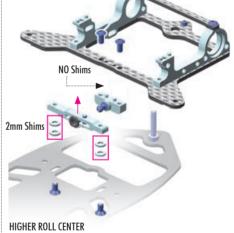


The three side link mounting positions on the new pod front plate maintain proper side link alignment when using each of the 3 different center pivot mounting positions. Keeping the side links in-line with the center pivot provides more neutral and dynamic handling for all conditions, improving drivability & corner speed.









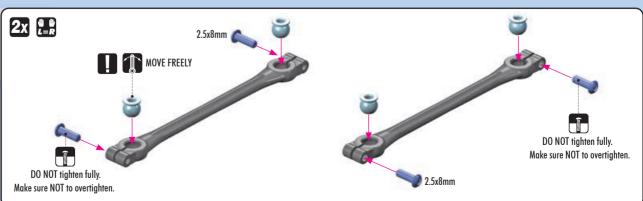
STANDARD ROLL CENTER

M INITIAL SETTING

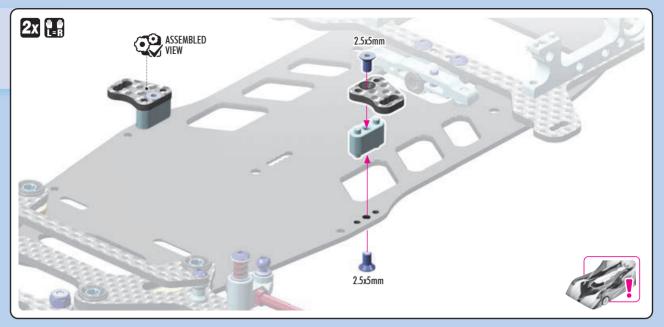
The standard roll center is the best starting point for most conditions as it gives the most neutral handling. The chassis pivot holder sits in line with the lower chassis plate.

 $\begin{tabular}{ll} \textbf{Adding shims} below the chassis pivot holder increases rotation both on- and off-power. \end{tabular}$

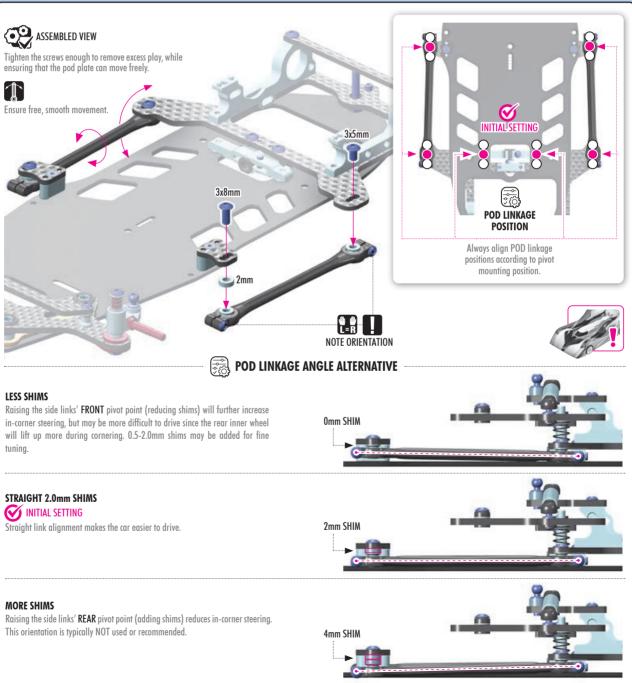












REAR RIDE HEIGHT & DROOP SETTING

The rear ride height and rear droop settings are directly related to each other, making it important to use the correct rear axle eccentric holder when adjusting the rear bump spring preload to set the pod droop value.

STIFFER rear bump spring - will be more reactive and will improve on-power steering.

SOFTER rear bump spring - will be less reactive and will be reduce on-power steering.

CONICAL-PROGRESSIVE rear bump spring - provides more aggressive handling than a straight-linear rear bump spring. Using a conical-progressive bump spring is usually the faster and most responsive setup.

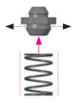


When using a **CONICAL-PROGRESSIVE SPRING**, press the spring onto the smaller diameter end of the spring retainer.



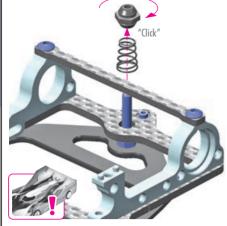
SS

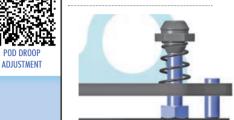
STRAIGHT-LINEAR rear bump spring - provides more neutral handling to make the car easier to drive.



When using a **STRAIGHT-LINEAR SPRING**, press the spring onto the larger diameter end of the spring retainer.

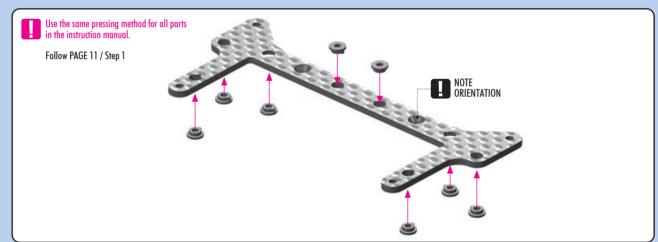
| | SIDE SPRI | RINGS (STRAIGHT-LINEAR | | | | |
|--------|-----------|------------------------|--------|--------|--|--|
| OPTION | #373589 | C=0.5 | BLACK | OPTION | | |
| \leq | #373584 | C=0.6 | SILVER | OPTION | | |
| \leq | #373585 | C=0.9 | GOLD | OPTION | | |
| _ | #373586 | C=1.2 | BLACK | OPTION | | |
| \leq | #373587 | C=1.5 | SILVER | OPTION | | |
| \leq | #373588 | C=1.8 | GOLD | OPTION | | |

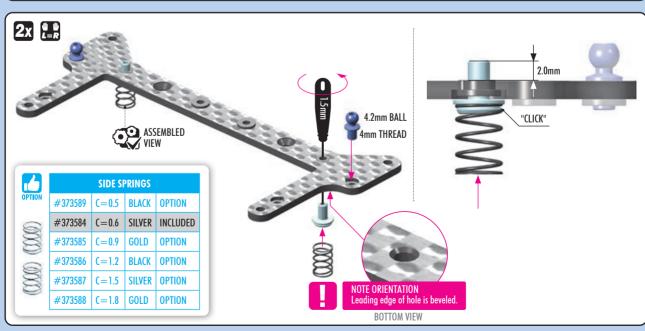




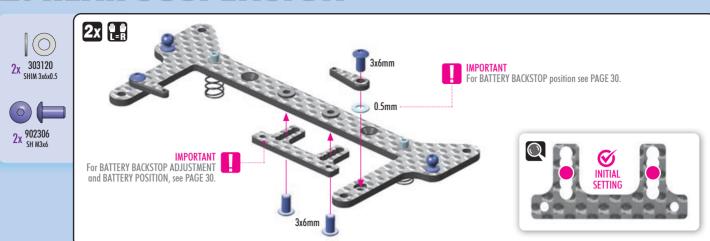
♥ VIDEO TECH TIP

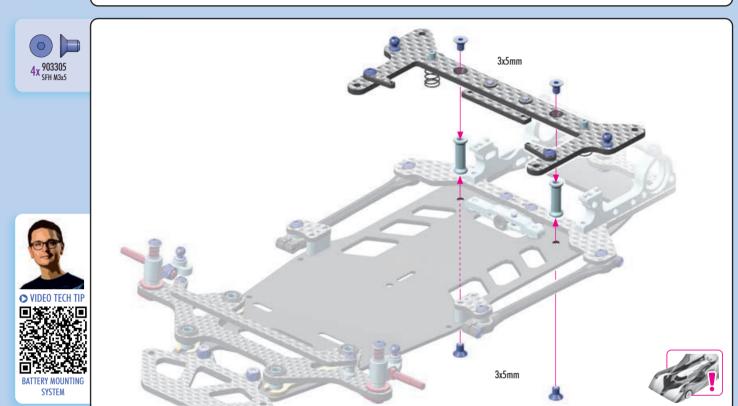
- TIGHTENING the rear bump spring increases ride height and reduces droop.
- LOOSENING the rear bump spring decreases ride height and increases droop.

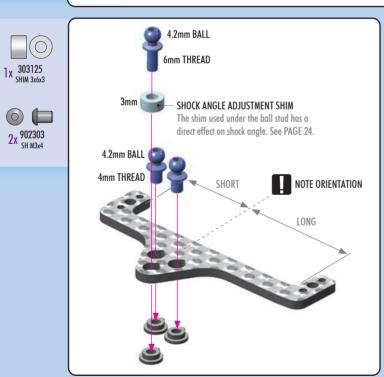


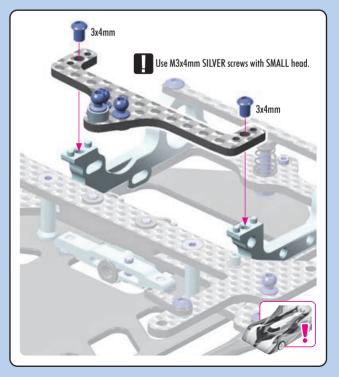


















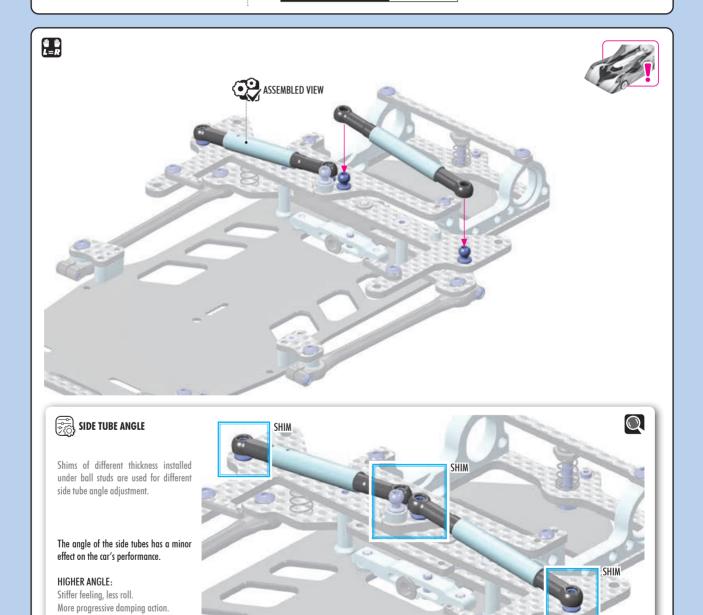


Apply oil to the entire composite side tube before installing in the aluminum tube. After assembly, check for smooth operation. It is very important to check and re-oil the tubes at least once per race day. Oil thickness can be adjusted depending on the track conditions.



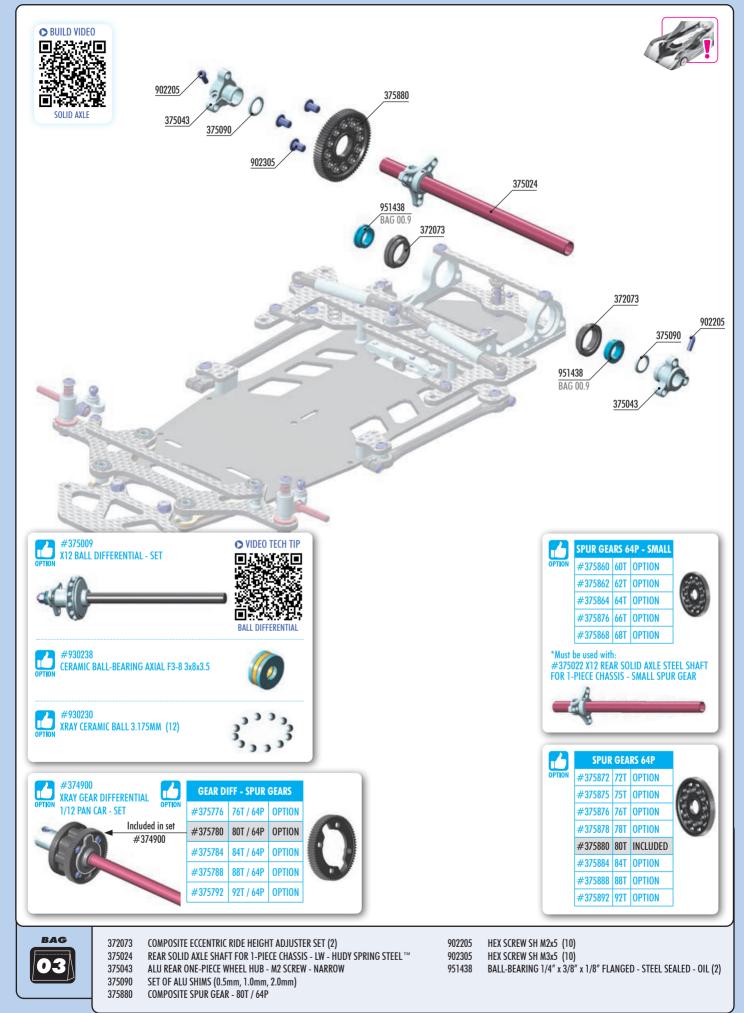
| or HIGH traction | use HARDER oils |
|----------------------------|-----------------|
| or LOW traction or ASPHALT | use SOFTER oils |

| | HUDY O | ILS 50ml | |
|---|---------|-----------|----------|
| N | #106450 | 5.000cSt | |
| | #106460 | 6.000cSt | |
| | #106470 | 7.000cSt | |
| | #106480 | 8.000cSt | |
| | #106490 | 9.000cSt | |
| | #106510 | 10.000cSt | INCLUDED |
| | #106492 | 11.000cSt | |
| | #106512 | 12.000cSt | |
| | #106515 | 15.000cSt | |
| | #106517 | 17.000cSt | |
| | #106520 | 20.000cSt | |
| | #106530 | 30.000cSt | |

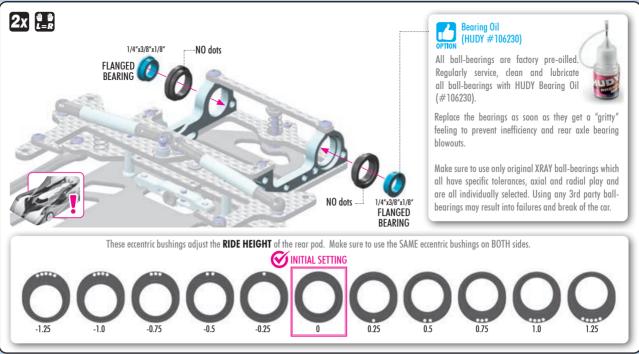


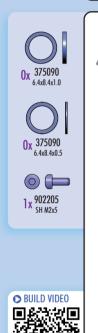
LOWER ANGLE (FLATTER):Softer feeling, more roll.
More linear damping action.

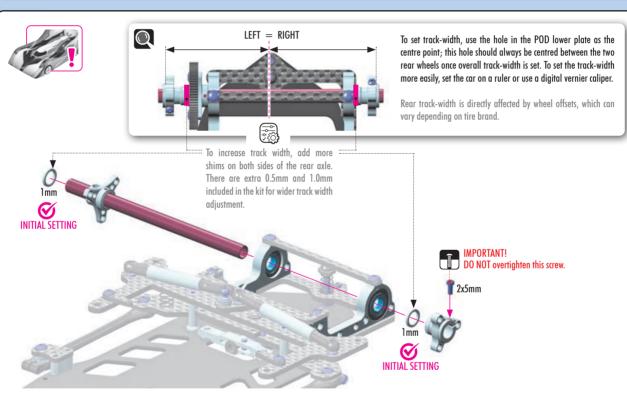
3. SOLID AXLE







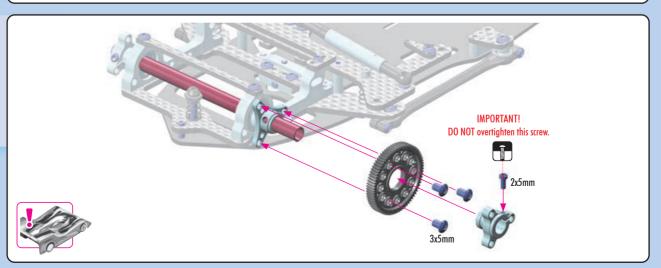






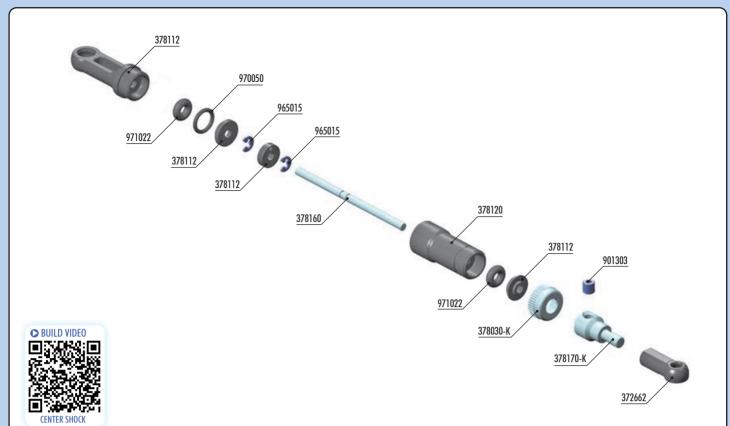
1x 902205 SH M2x5

3x 902305 SH M3x5





4. SHOCK ABSORBER



| 4 | HUDY SILICONE OILS - 50ml | | | | | | | | | | |
|------|---------------------------|--------|--------|---------|--------|----------|--|---------|---------|--------|--|
| TION | #106310 | 100cSt | OPTION | #106342 | 425cSt | OPTION | | #106365 | 650cSt | OPTION | |
| | #106315 | 150cSt | OPTION | #106345 | 450cSt | INCLUDED | | #106367 | 675cSt | OPTION | |
| | #106320 | 200cSt | OPTION | #106347 | 475cSt | OPTION | | #106370 | 700cSt | OPTION | |
| | #106325 | 250cSt | OPTION | #106350 | 500cSt | OPTION | | #106375 | 750cSt | OPTION | |
| | #106330 | 300cSt | OPTION | #106355 | 550cSt | OPTION | | #106380 | 800cSt | OPTION | |
| | #106335 | 350cSt | OPTION | #106357 | 575cSt | OPTION | | #106390 | 900cSt | OPTION | |
| | #106337 | 375cSt | OPTION | #106360 | 600cSt | OPTION | | #106410 | 1000cSt | OPTION | |
| | #106340 | 400cSt | OPTION | #106362 | 625cSt | OPTION | | #106420 | 2000cSt | OPTION | |





372662 COMPOSITE BALL JOINT 4.2mm (4) 378030-K ALU SHOCK BODY CAP - LOWER - BLACK

378102 X12 CENTER DAMPENER SET

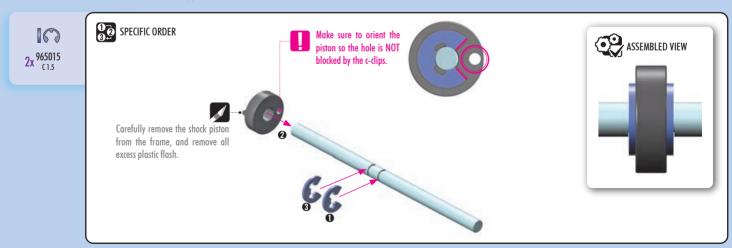
378112 COMPOSITE PARTS FOR CENTER DAMPENER FOR 1-PIECE CHASSIS

378120 ALU SHOCK BODY - V2 378160 STEEL SHOCK SHAFT

378170-K ALU SHOCK BALL JOINT SCREW - BLACK

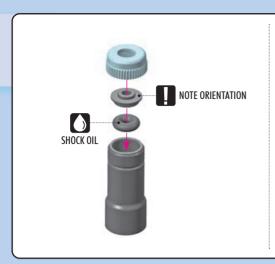
901303 HEX SCREW SB M3x3 (10) 965015 E-CLIP 1.5 (10) 970050 O-RING 5x1 (10) 971022 SILICONE O-RING 2x2 (10)

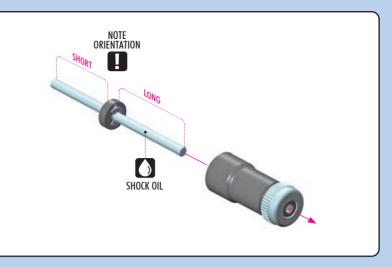
Numbers in parentheses () refer to quantities when purchased separately.

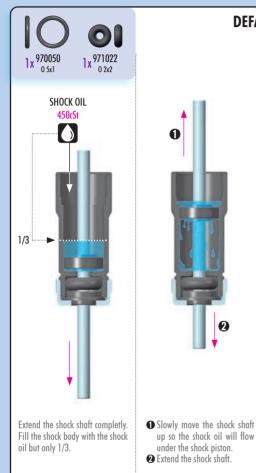


4. SHOCK ABSORBER

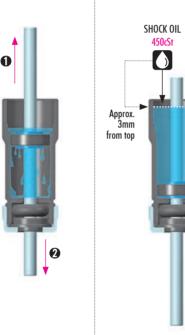




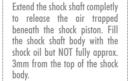


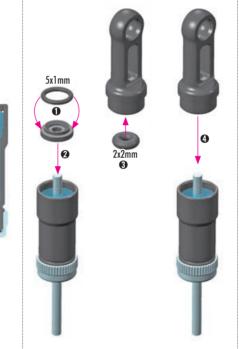


DEFAULT SHOCK SETTING FOR SHOCK ABSORBER Follow the steps below to set the shock.



up so the shock oil will flow





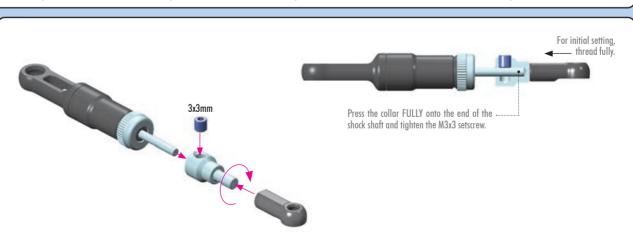
- Install the 5x1 o-ring onto shock shim.
 Place the shock shim with the o-ring into the shock body.
 Install the 2x2 o-ring into the shock cap.
- 4 Install the shock cap.



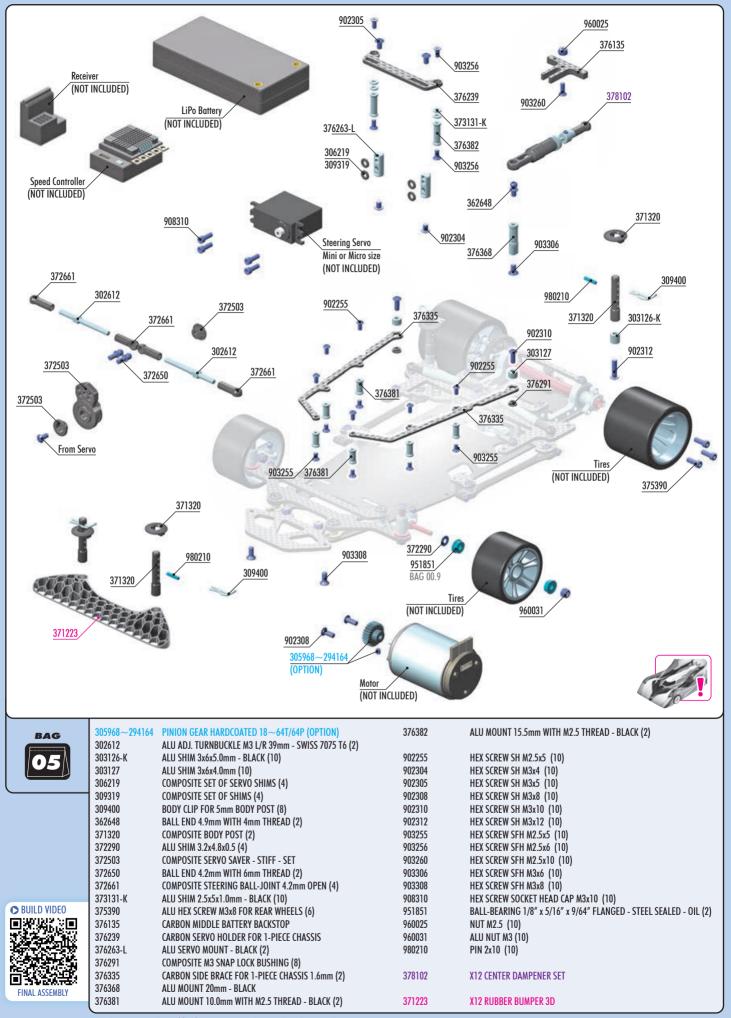
Screw fully the shock cap in the filled shock body. Excess oil will spill from the shock. Tighten completly.



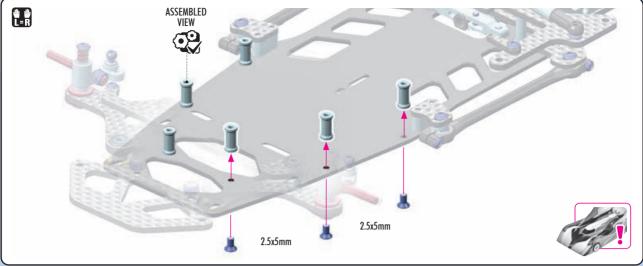




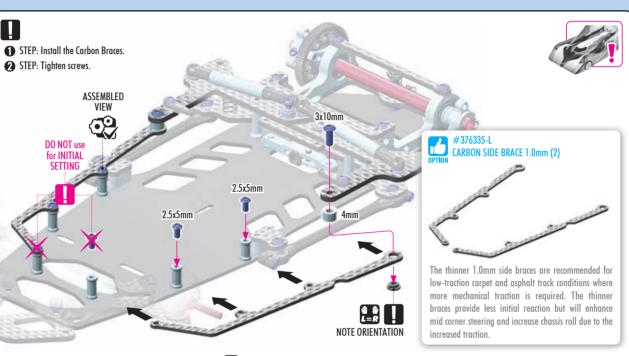












CHASSIS FLEX ADJUSTMENT





Generates more mechanical traction. Recommended for low- to medium-traction carpet as well as asphalt. (NO BRACES)



Braces installed, attached at middle & rear only. This setting is a good compromise between mechanical traction and steering response. Ideal for most track conditions..

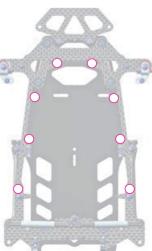


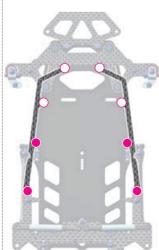


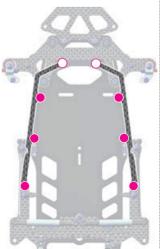
Braces installed, attached at middle-front, middle, and rear. A good compromise between mechanical traction, and steering response. A good option for higher traction conditions.

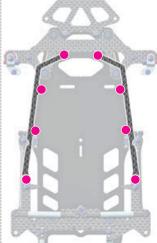


Braces installed, attached at front, middlefront, middle and rear. This is the stiffest, most stable setting. Recommended for high-traction carpet tracks (such as US black carpet). The car will have less roll but will also have less overall traction.

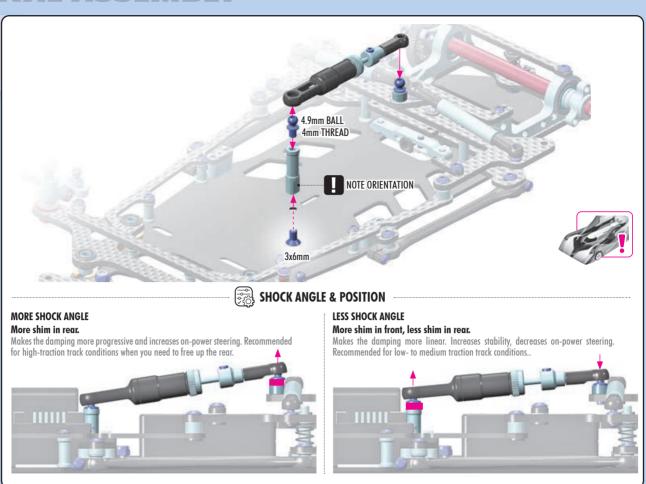


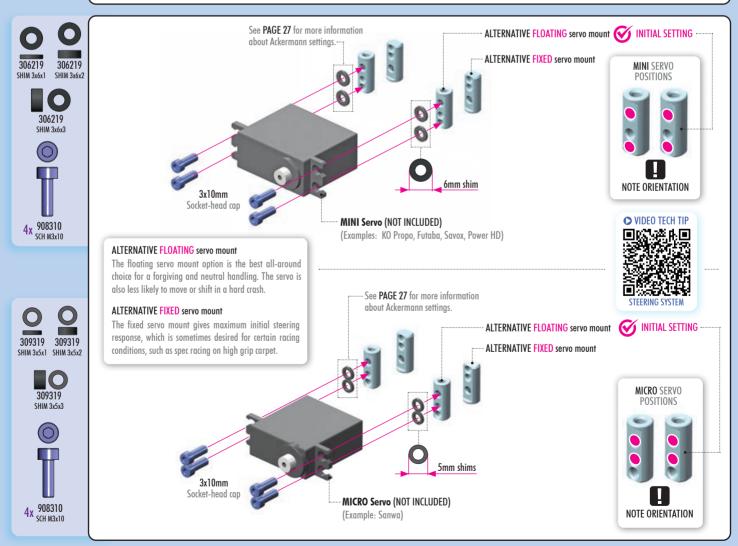




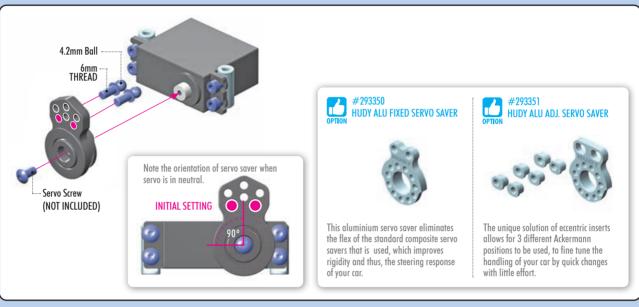








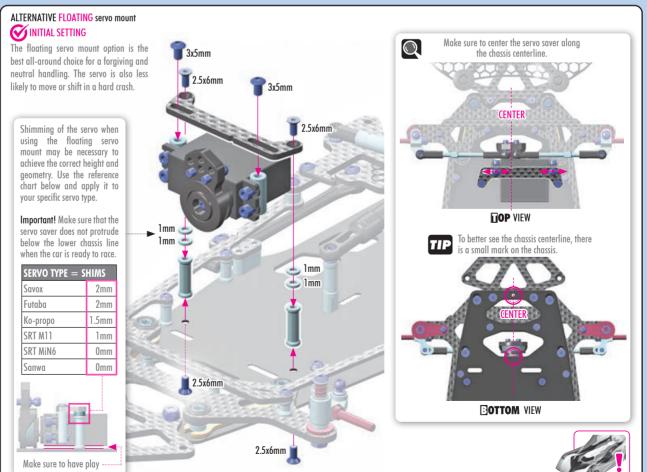




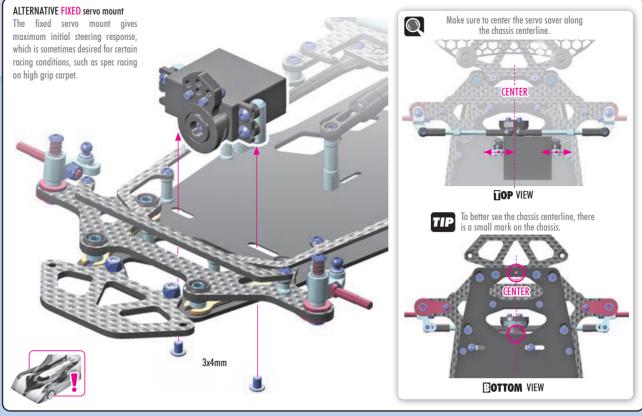


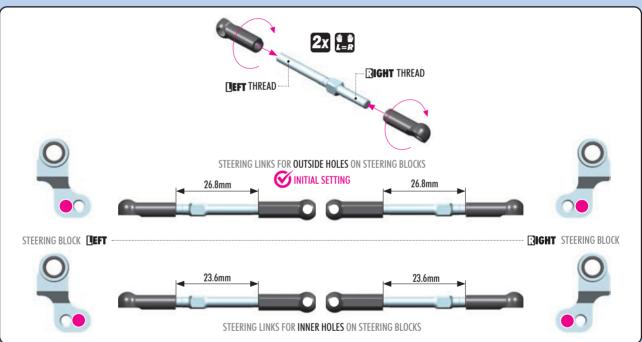


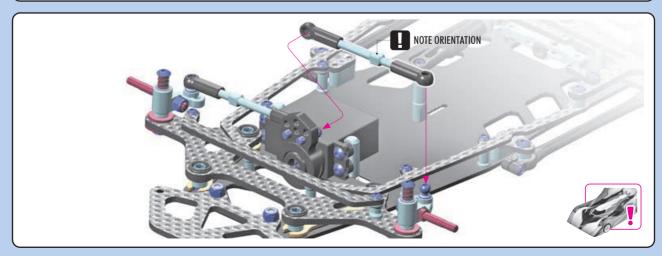




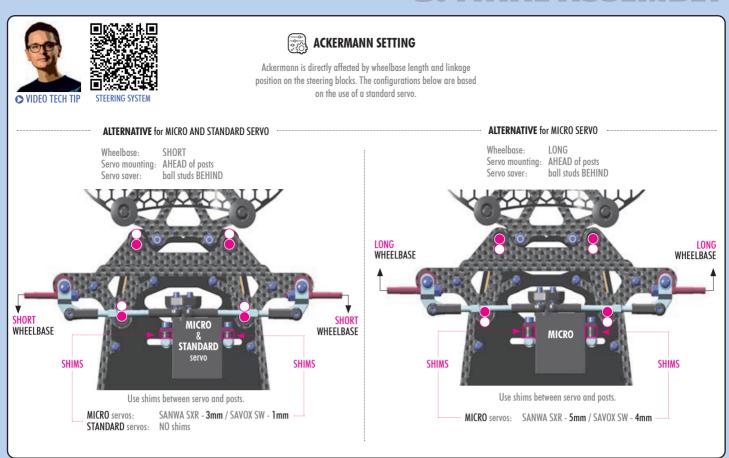


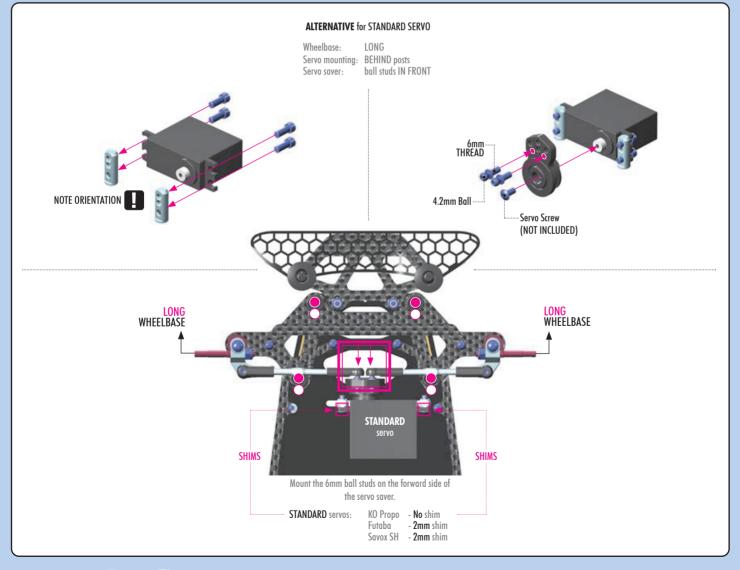




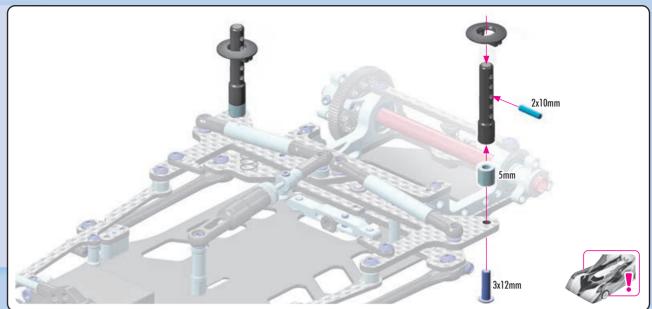




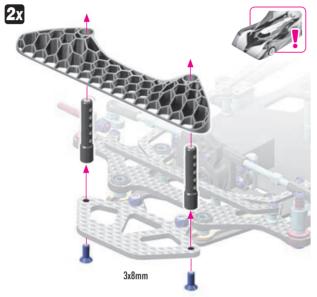


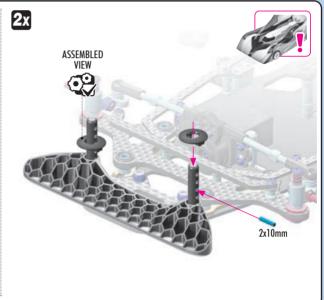


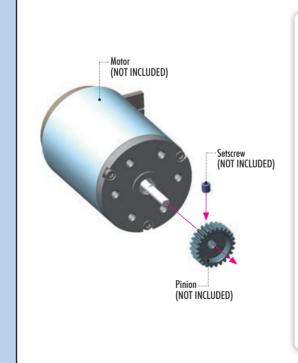








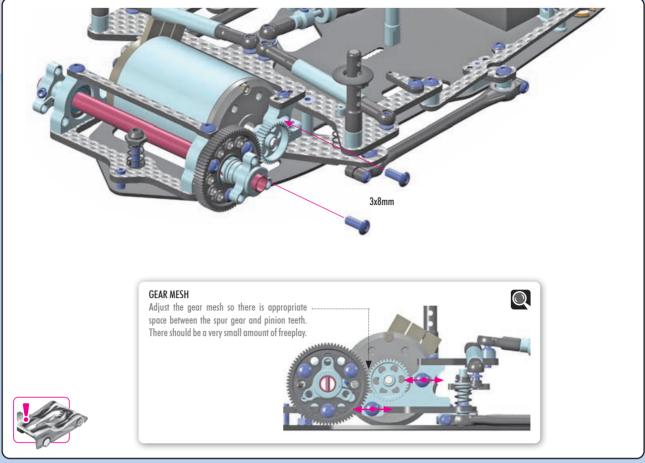




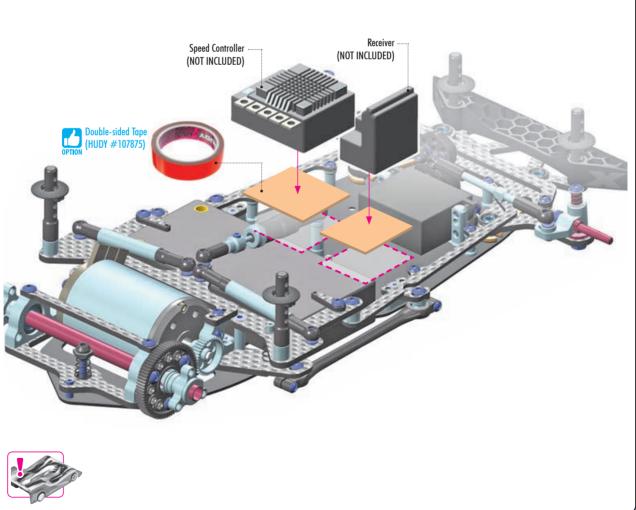
| ALU PINIC | ON GEA | ARS 64P |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #305968 | 18T | OPTION |
| #305969 | 19T | OPTION |
| #305970 | 20T | OPTION |
| #305971 | 21T | OPTION |
| #305972 | 22T | OPTION |
| #294123 | 23T | OPTION |
| #294124 | 24T | OPTION |
| #294125 | 25T | OPTION |
| #294126 | 26T | OPTION |
| #294127 | 27T | OPTION |
| #294128 | 28T | OPTION |
| #294129 | 29T | OPTION |
| #294130 | 30T | OPTION |
| #294131 | 31T | OPTION |
| #294132 | 32T | OPTION |
| #294133 | 33T | OPTION |
| #294134 | 34T | OPTION |
| #294135 | 35T | OPTION |
| #294136 | 36T | OPTION |
| | #305968 #305970 #305971 #305972 #294123 #294124 #294125 #294127 #294128 #294130 #294131 #294131 #294133 #294134 #294134 | #305969 19T #305970 20T #305971 21T #305972 22T #294123 23T #294124 24T #294125 25T #294126 26T #294127 27T #294128 28T #294129 29T #294130 30T #294131 31T #294132 32T #294133 33T #294134 34T #294135 35T |

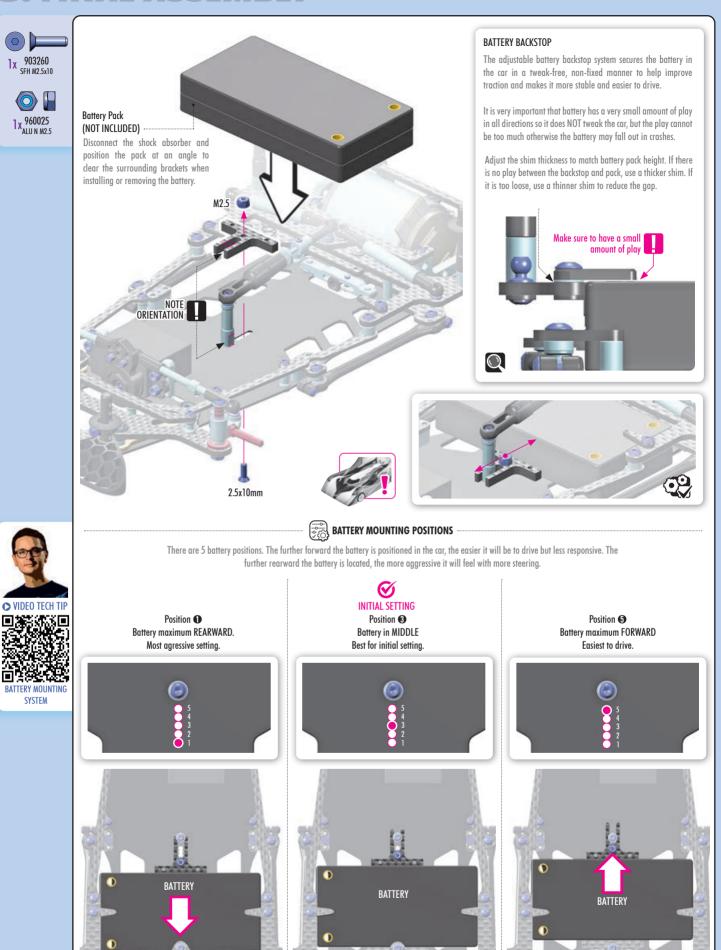
| #294156 | 56T | OPTION |
|---------|-----|--------|
| #294157 | 57T | OPTION |
| #294158 | 58T | OPTION |
| #294159 | 59T | OPTION |
| #294160 | 60T | OPTION |
| #294162 | 62T | OPTION |
| #294164 | 64T | OPTION |











SYSTEM











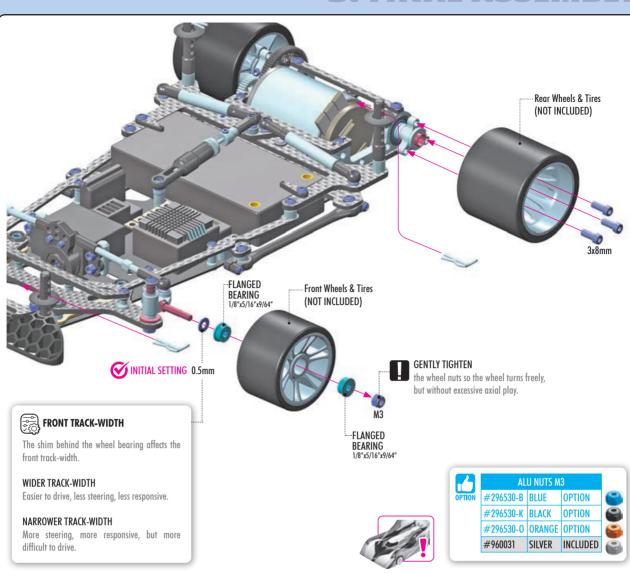
FRONT DROOP & RIDE HEIGHT

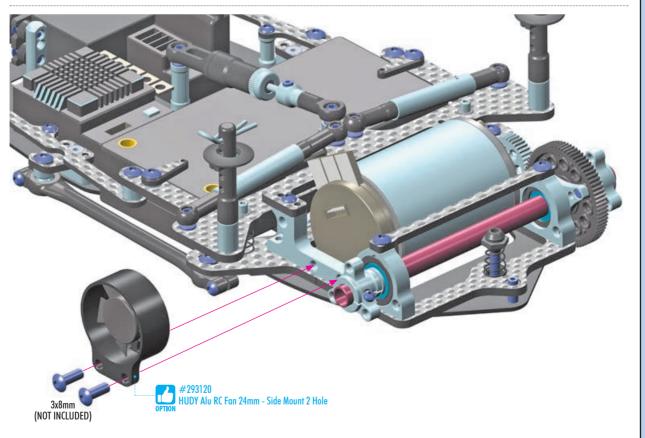


TWEAK & SIDE SPRINGS SETTING



BODYSHELL MOUNTING





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











