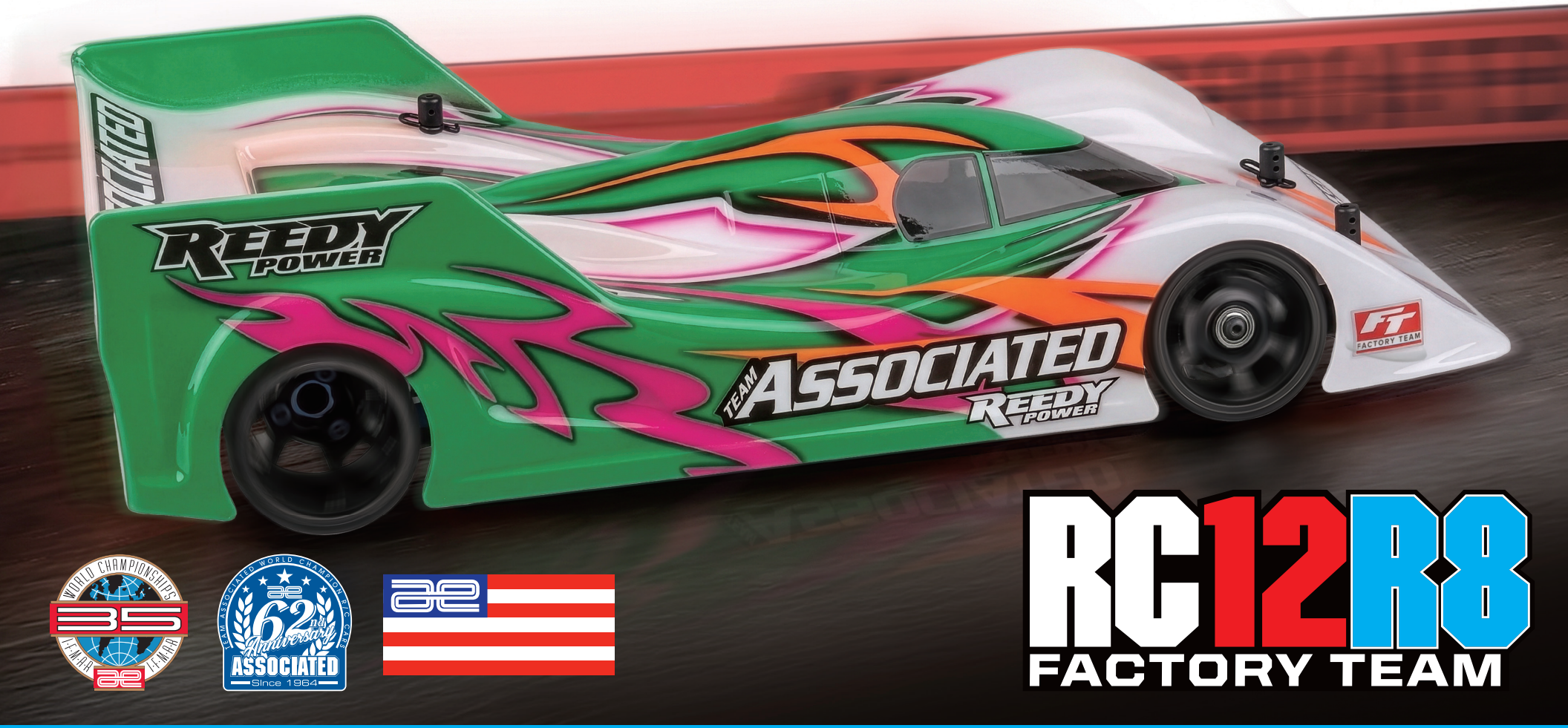
TEAM ASSOCIATED

1:12 Scale 2WD
Electric On Road
Competition Race Car



RC12R8 FACTORY TEAM

1:12 Scale 2WD Electric On Road Competition Race Car Kit Manual

#4023 RC12R8 Factory Team Kit

WeAreAE

CHAMPIONS by DESIGN

AssociatedElectrics.com

TEAM ASSOCIATED

:: Introduction

Thank you for purchasing this Team Associated product. This assembly manual contains instructions and tips for building and maintaining your new vehicle. Please take a moment to read through the manual and familiarize yourself with the steps. We are continually changing and improving our designs; therefore, actual parts may appear slightly different than the illustrations. New parts will be noted on supplementary sheets located in the appropriate parts bags.
Check each bag for these sheets before you start to build.
Check www.rc10.com for the latest versions of our instruction manauls.

:: RC12R8 FT Kit Features

- Hybrid Steel and Carbon-Fiber Center Chassis: Centralizes weight for an ultra-low center of gravity and optimized handling balance.
- 2mm 7075-T6 Aluminum Lower Spring Chassis: Provides a rigid, precise foundation for consistent suspension performance.
- Triple Central Pivot “No-Tweak” Design: Eliminates traditional pod tweak while maximizing cornering rigidity and chassis consistency.
- Dual Rotary Rear Dampers: Delivers smooth, controlled damping while maintaining the lowest possible center of gravity.
- Four Rear Spring Configurations: Provides an extensive range of heave and pitch-control adjustments for varying track conditions.
- Easy Rear up stop and down stop adjustment: allows quick and precise tuning of rear up stop and down stop settings.
- 7075-T6 Aluminum Front Spring Damper Hubs: Provides high rigidity, precise suspension movement, and exceptional durability.
- Comprehensive Front-End Adjustment System: Integrates easy screw based droop adjustment, adjustable Ackermann geometry with plates, threaded ride-height collars, and a camber lever system to provide fast, precise, and fully accessible tuning of the car’s front suspension.
- All-new Factory Team adjustable servo saver: provides adjustable servo saver stiffness while maintaining the steering precision and servo holding power required to compete at the highest level.
- Ultra-Lightweight Hybrid Spool Axle: Combines aluminum and steel construction to reduce rotating mass while maintaining strength and durability.
- Aerodynamic TPU Front Bumper: Supports the outer corners of the body to increase front aerodynamic load while providing effective impact protection.

:: Additional

Your new 12R8 Kit comes unassembled
and requires the following items for completion
(refer to AssociatedElectrics.com for suggestions):

- R/C two channel surface frequency radio system
- AA-size batteries for transmitter
- Electronic Speed Control (“ESC”)
- Steering servo
- R/C electric motor
- Battery charger
  (a peak detection charger, or LiPo compatible charger)
- 1s cell LiPo battery pack
- Polycarbonate specific spray paint
- Cyanoacrylate glue (“CA”) (#1697)
- Thread locking compound (#1596)
- Tires and Inserts, Fronts and Rears
- Pinion gear, size determined by type/turn or kV of motor

:: Other Helpful Items

- Silicone Shock Fluid (Refer to AssociatedElectrics.com for complete listings)
- FT Body Scissors (#1737)
- FT Hex/Nut Wrenches (#1519)
- FT Universal Tire Balancer (#1498)
- FT Dual Turnbuckle Wrench (#1114)
- FT Body Reamer (#1499)
- Needle Nose Pliers
- Calipers or a Precision Ruler
- Green Slime shock lube (#1105)
- Shock Pliers (#1681)
- FT Ballcup Wrench (#1579)
- Soldering Iron
- Wire Cutters
- Hobby Knife

Associated Electrics, Inc.
21062 Bake Parkway.
Lake Forest, CA 92630

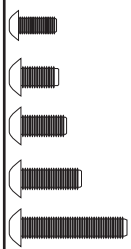
ASSOCIATED ELECTRICS
Since 1984

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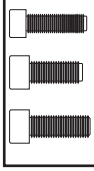
:: Hardware - 1:1 Scale View

Button Head (bhcs)



2.5x5mm (31519)
3x5mm (31530)
3x6mm (31531)
3x8mm (31532)
3x14mm (25187)

Cap Head (shcs)



2.5x8mm (4863)
3x7mm (4864)
3x8mm (89223)

Set Screws



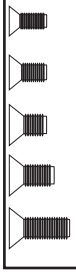
3x3mm (25225)
3x5mm (89219)
3x6mm (81257)

Nuts (lock/plain)



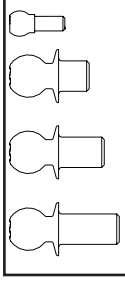
M3 Nut (91477)
M3 Alum. Locknut, Blue (31550)
M3 Locknut, Black (25215)

Flat Head (fhcs)



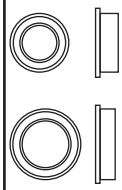
2x5mm (21667)
2.5x5mm (4678)
3x5mm (31540)
3x6mm (31541)
3x8mm (25201)

Ballstuds



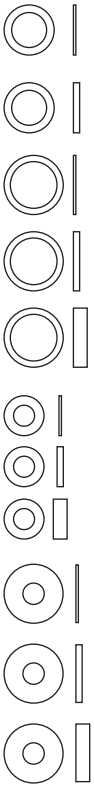
3.5mm - 2x4mm (21646)
4.2mm - 4mm (4819)
4.2mm - 6mm (4820)
4.2mm - 8mm (4821)

Ball Bearings



.1875x.3125x.125” (4861)
.250x.375x.109” (4860)

Shims and Washers



4.8x6.8x0.5mm (4858)
4.8x6.8x1.0mm (4858)
6.35x8.0x0.5mm (4859)
6.35x8.0x1.0mm (4859)
6.35x8.0x2.0mm (4859)
5.5x0.5mm (31381)
5.5x1.0mm (31382)
5.5x2.0mm (31383)
Bulkhead Washer 1mm (31384)
Bulkhead Washer 1mm (31385)
Bulkhead Washer 2mm (31386)

Notes:

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1..... Cover

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3.....1:1 Hardware “Fold Out”

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5.....Upper Chassis Build
Bag 1

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Bag 2

8.....Damper Tubes Build
Bag 3

9.....Front End Build
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11.....Steering Blocks Build
Bag 5

12.....Bumper and Body Mounts Build
Bag 6

13.....Rear Axle Build
Bag 7

14.....Optional Parts Build

15.....Notes

18..... Back Cover

:: Notes



This symbol indicates a special note or instruction in the manual.



This symbol indicates the number of the same part that is required.



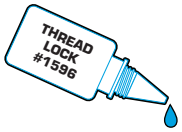
This symbol indicates the order within a step to assemble parts.



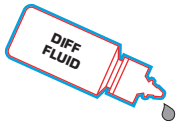
This symbol indicates there are optional FT parts available



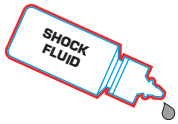
This symbol indicates a Racers Tip.



This symbol indicates where Thread Lock Adhesive should be applied. *not included



This symbol indicates where Diff Fluid should be applied.



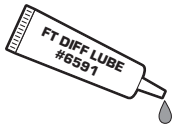
This symbol indicates where Shock Fluid should be applied.



There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.



This symbol indicates where FT Silicone Grease should be applied. *not included



This symbol indicates where FT Diff Lube should be applied. *not included

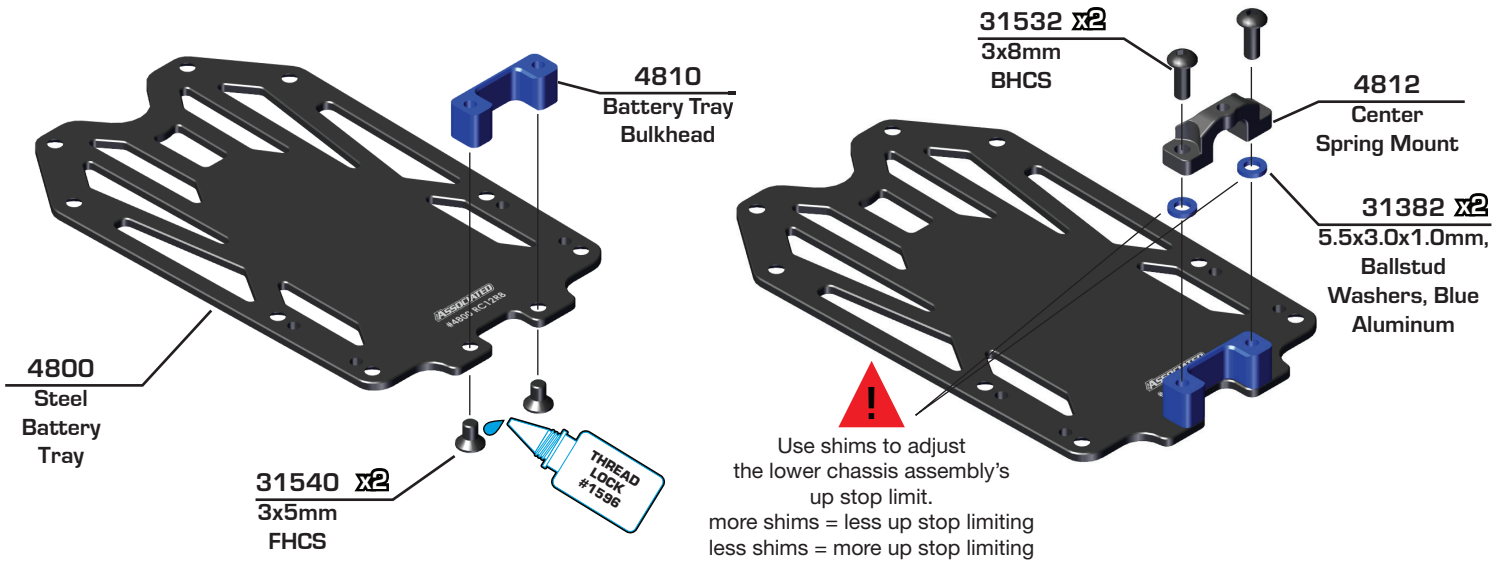


This symbol indicates where Black Grease should be applied.



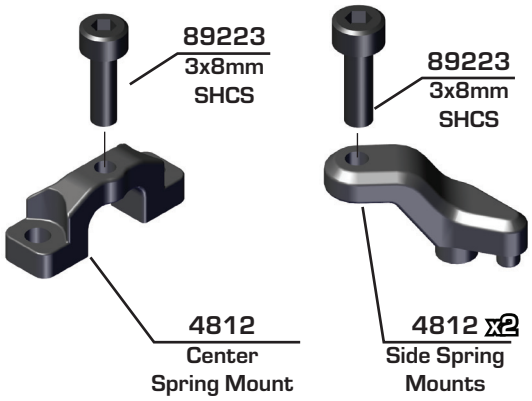
This symbol indicates where Green Slime can be applied. *not included

Bag 1 - Step 1



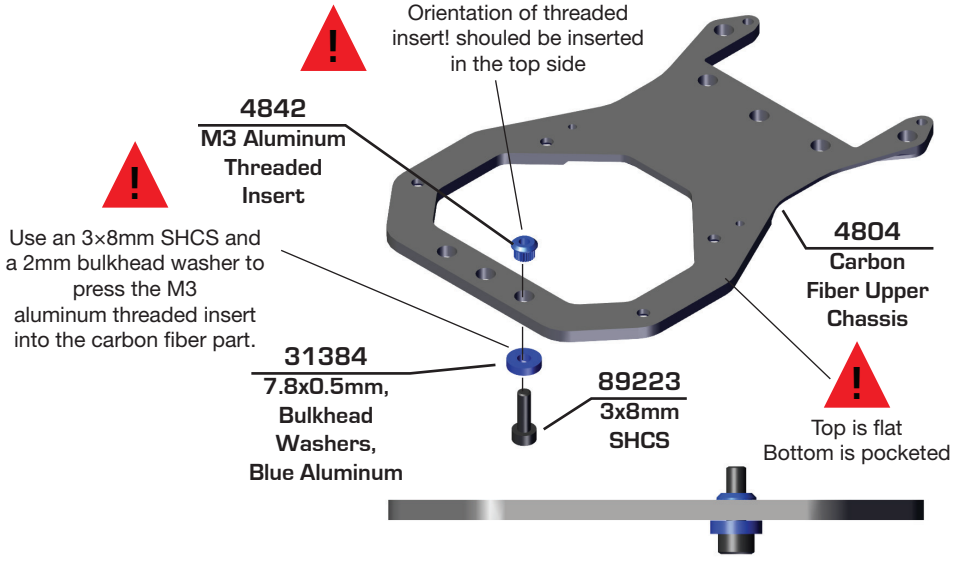
Bag 1 - Step 2

Pre thread the material with an 3×8mm SHCS before installation to ensure the side spring retainer screws thread in straight



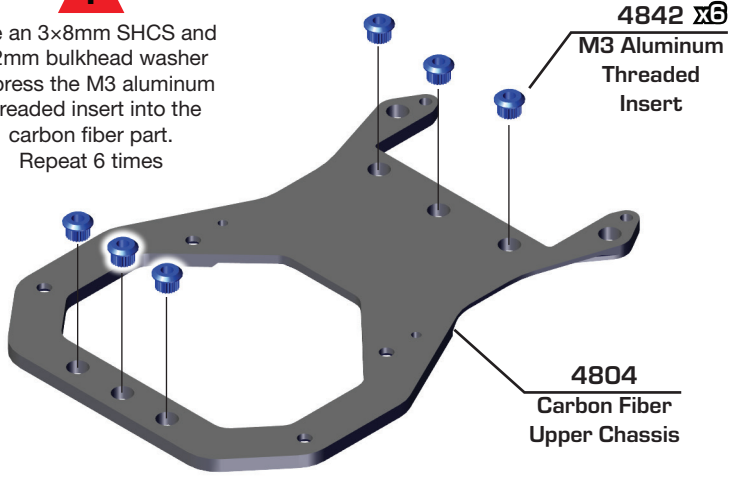
Use an 3×8mm SHCS and a 2mm bulkhead washer to press the M3 aluminum threaded insert into the carbon fiber part.

Orientation of threaded insert! shouled be inserted in the top side



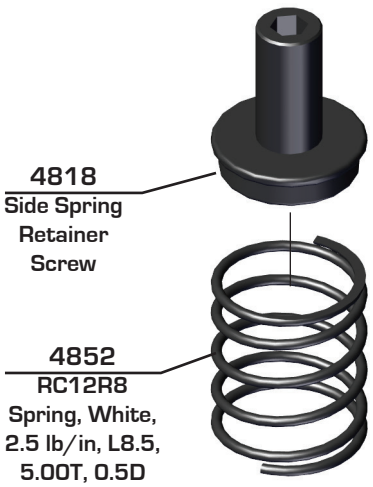
Bag 1 - Step 3

Use an 3×8mm SHCS and a 2mm bulkhead washer to press the M3 aluminum threaded insert into the carbon fiber part. Repeat 6 times

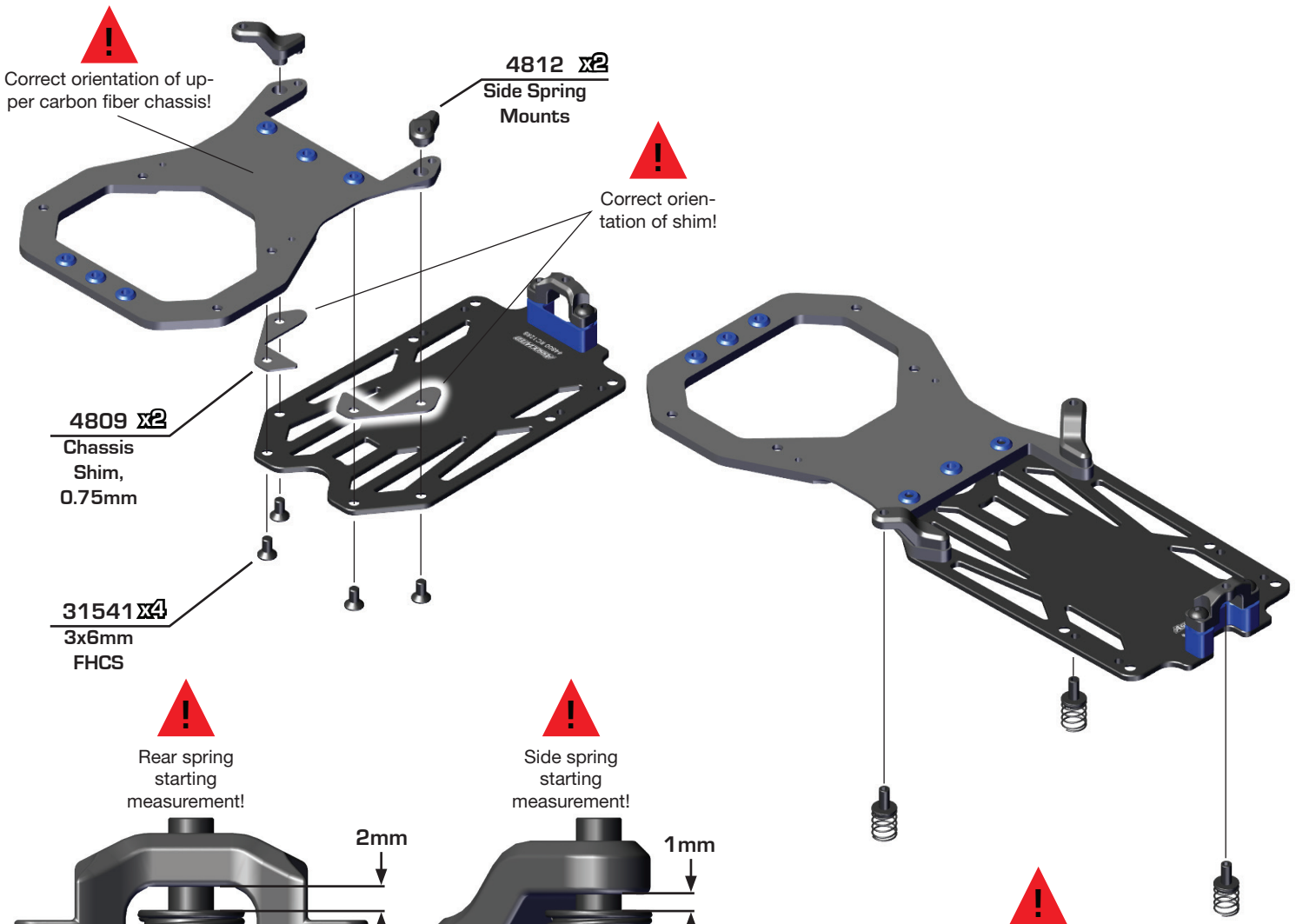


Snap the spring into the groove on the side spring retainer screw. Rotate the spring until it aligns with the screw.

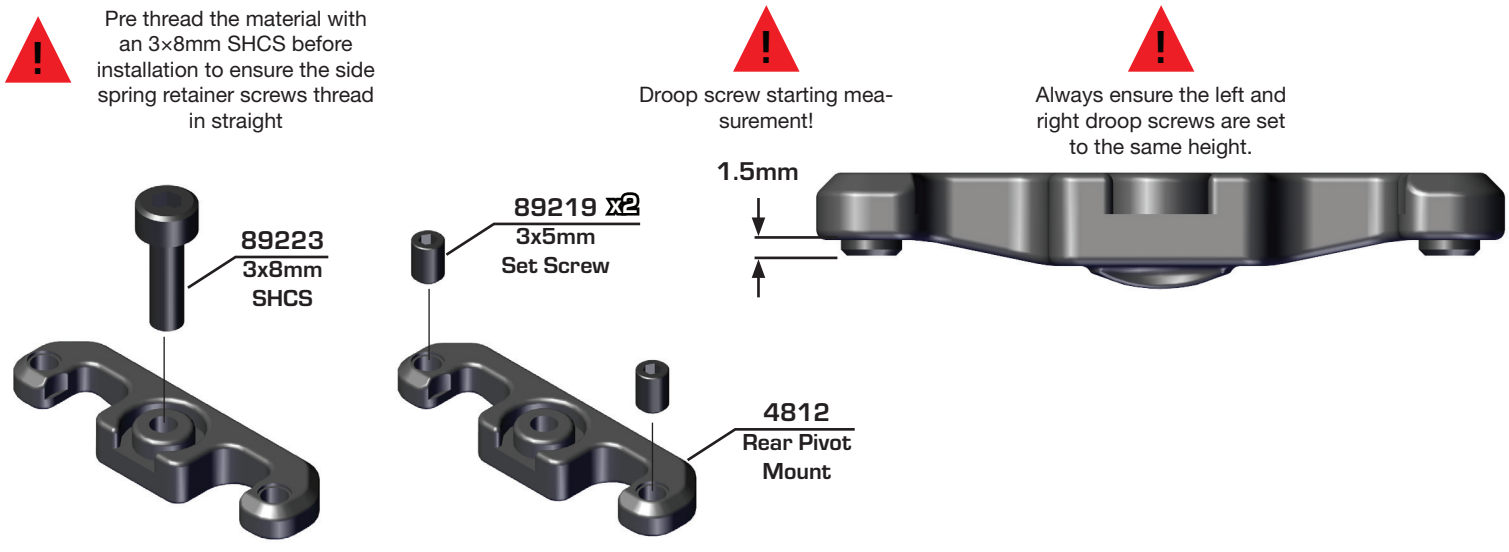
Build x3



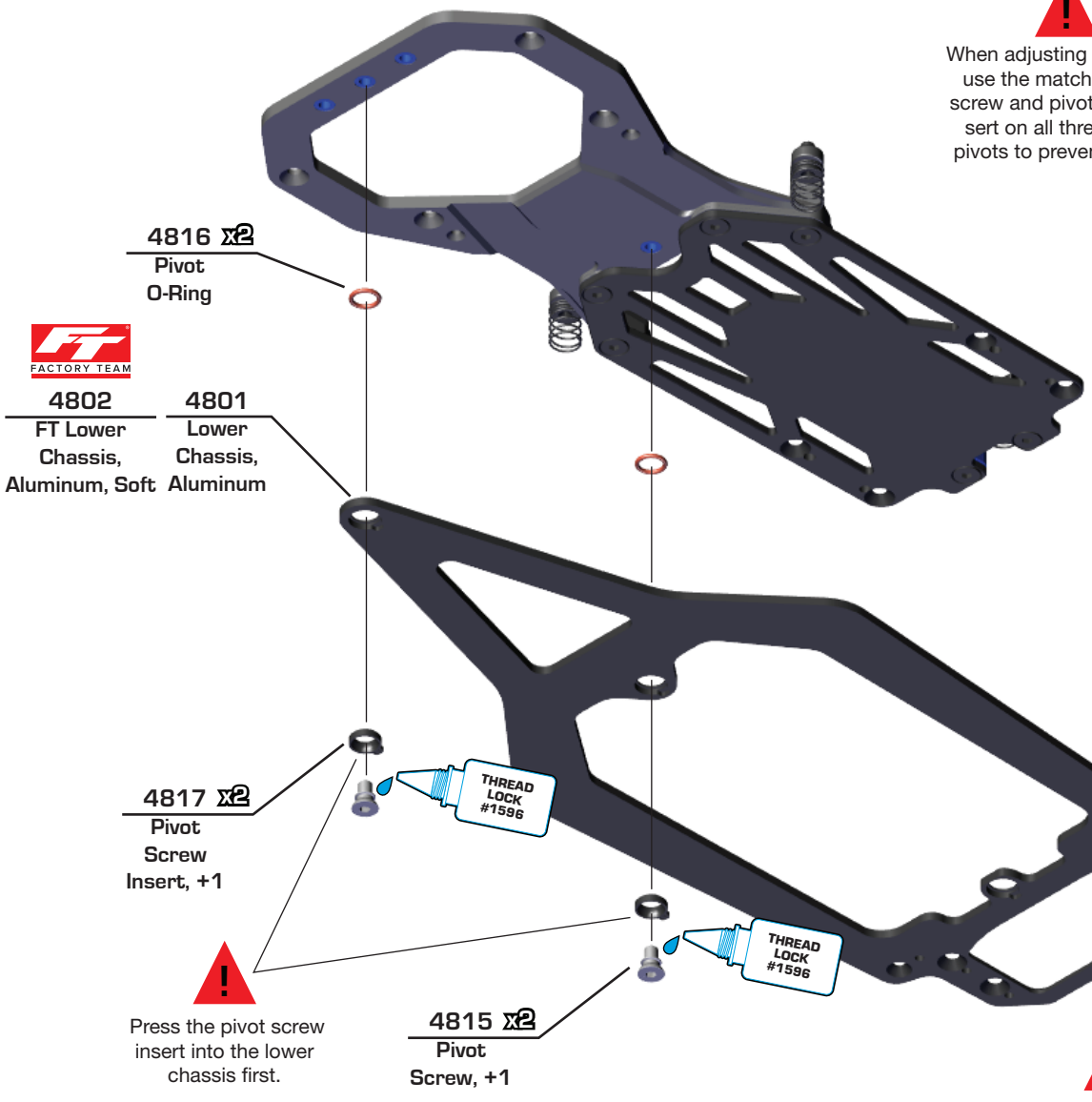
Bag 1 - Step 4



Bag 2 - Step 1



Bag 2 - Step 2

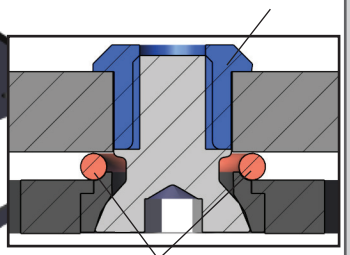


When adjusting roll center, use the matching pivot screw and pivot screw insert on all three center pivots to prevent binding

	Roll Center
0	0
+1 Kit Setup	+1
+2	+2

Press the pivot screw insert into the lower chassis first.

Fully press the threaded insert into the carbon upper chassis to prevent the pivot O-ring from binding the center pivots

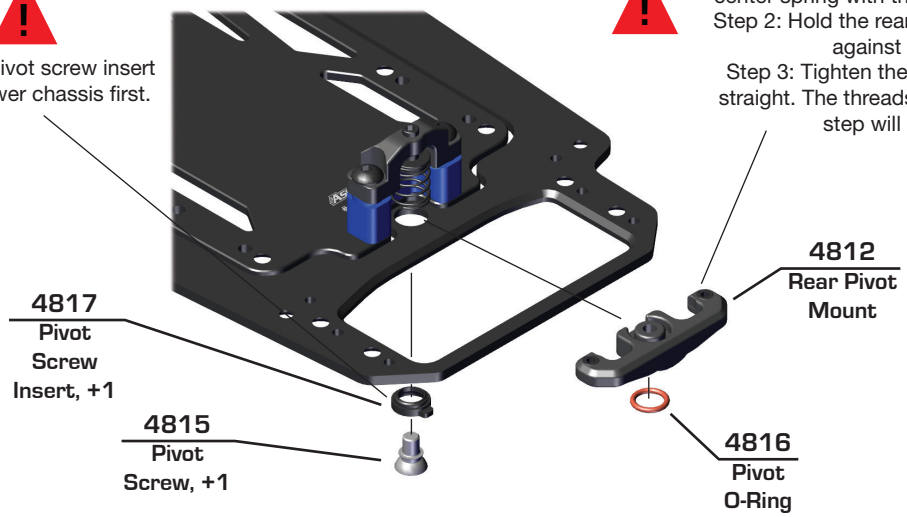


Ensure the pivot O-ring sits in the groove of the pivot screw insert when tightened so the pivot joints move freely

Bag 2 - Step 3

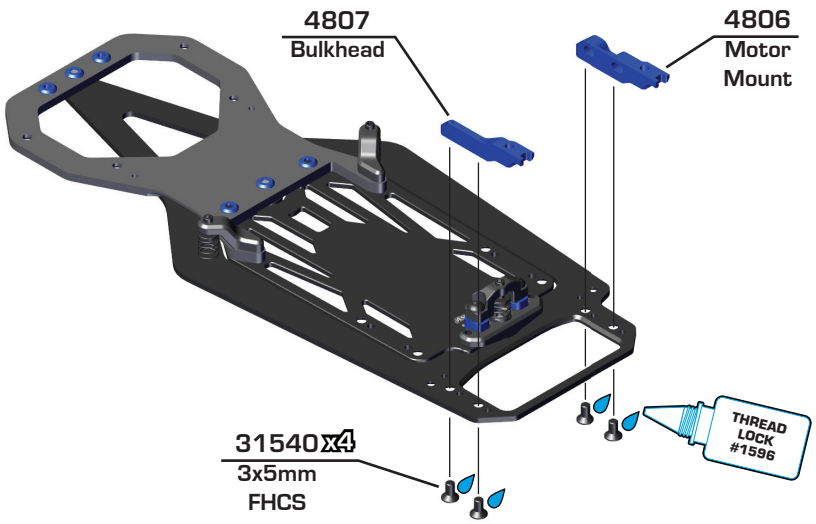
Press the pivot screw insert into the lower chassis first.

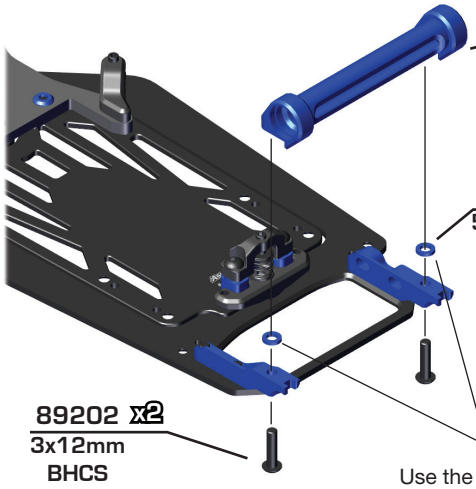
Step 1: Angle the rear pivot mount under the center spring with the center O-ring in place.
Step 2: Hold the rear pivot mount and O-ring against the chassis.
Step 3: Tighten the pivot screw, keeping it straight. The threads formed in the previous step will help guide it.



	Roll Center
0	0
+1 Kit Setup	+1
+2	+2

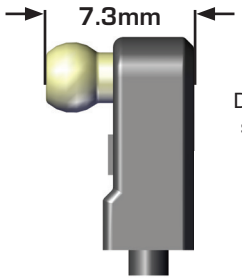
Bag 2 - Step 4



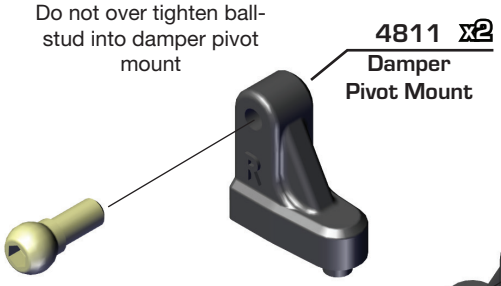


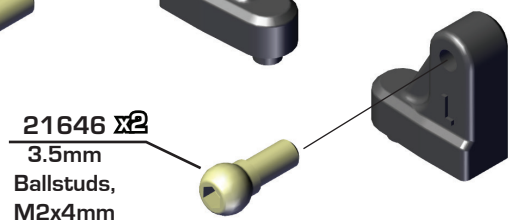
Use the multiple included shims to set the desired ride height.
(Kit: 1mm)

Bag 3 - Step 1

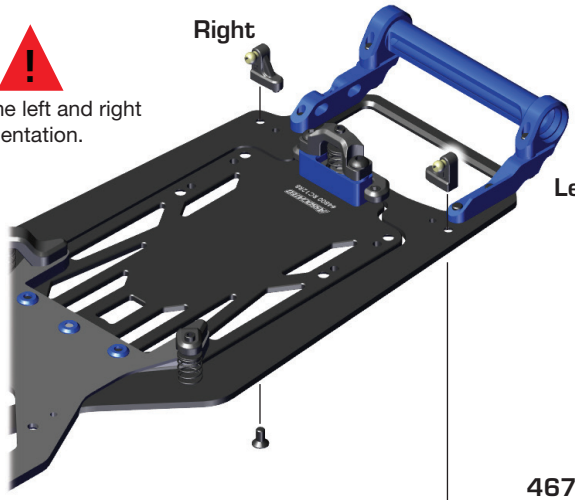


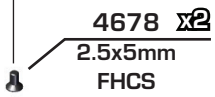
Do not over tighten ball-stud into damper pivot mount



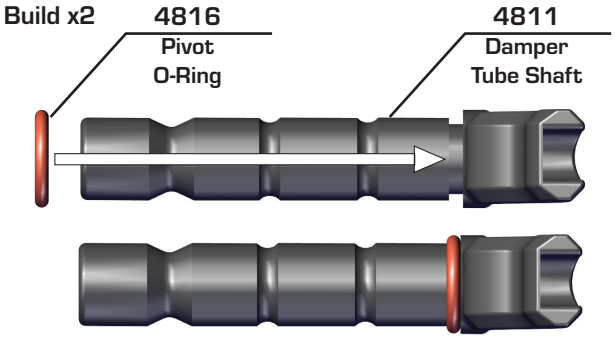


Check the left and right orientation.

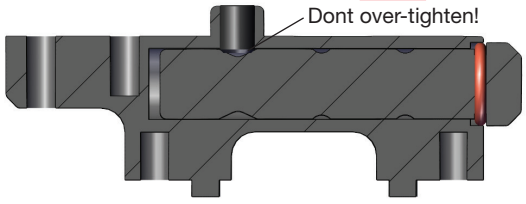


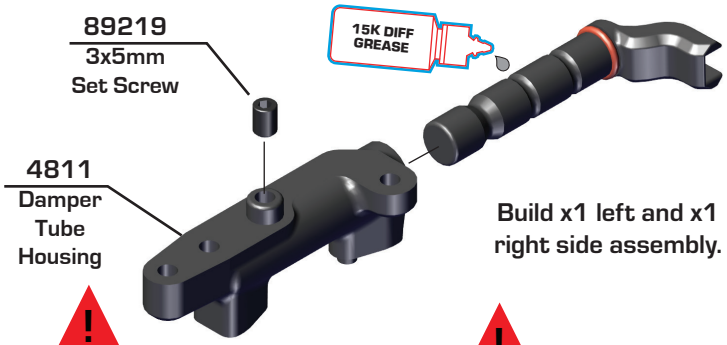


Bag 3 - Step 2



Push the O-ring into the final groove of the damper tube.



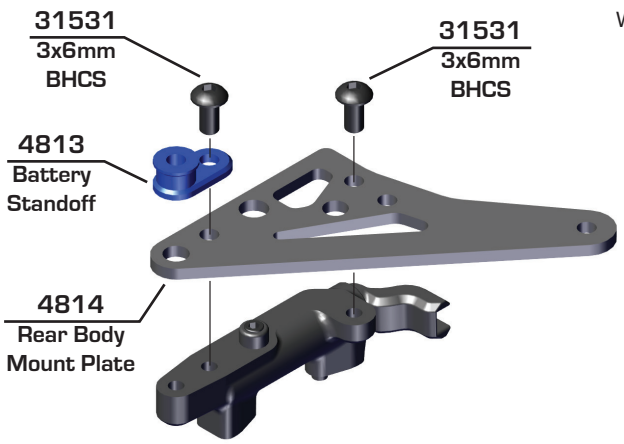


Build x1 left and x1 right side assembly.

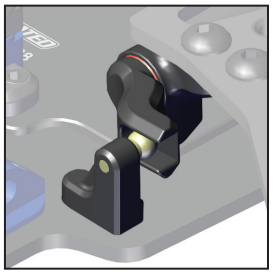
Step 1: Apply included grease to the damper tube, then insert it slowly with a twisting motion to work the grease into the grooves.
Step 2: Wipe away excess damper grease around the O-ring.
Step 3: Tighten the set screw, leaving a small amount of back and forth play. Do not overtighten.

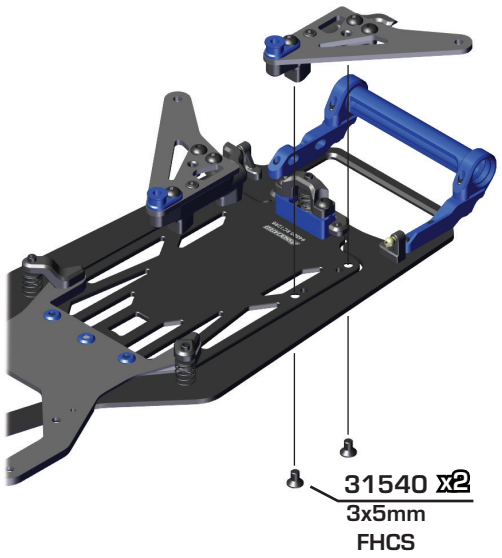
Bag 3 - Step 3

Build x1 left and x1 right side assembly.



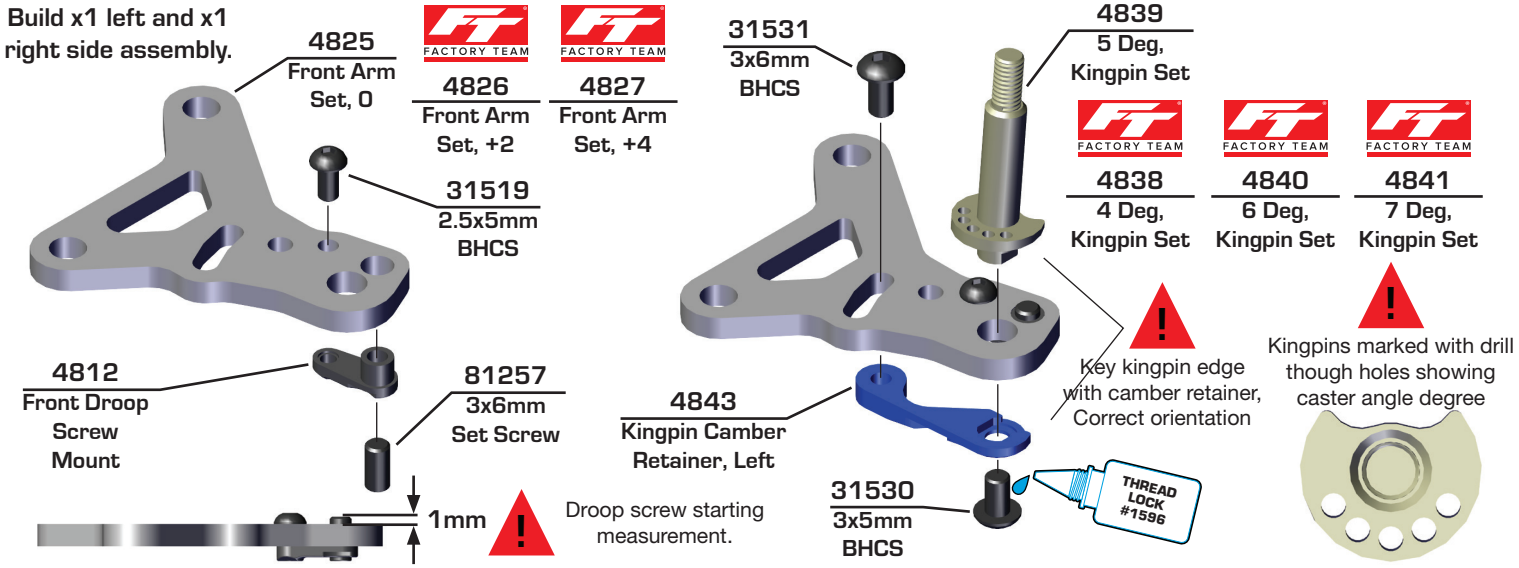
When installing the damper assembly on the chassis, align the pivot with the damper tube cavity. Check that the assembly moves freely.





Bag 4 - Step 1

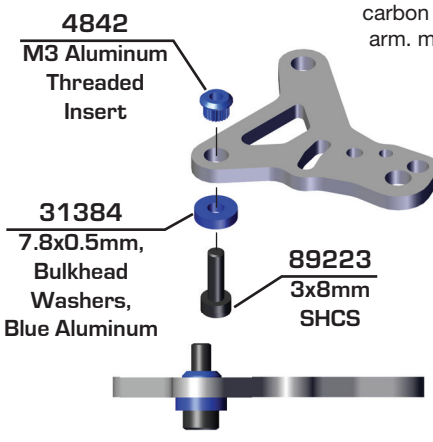
Build x1 left and x1 right side assembly.

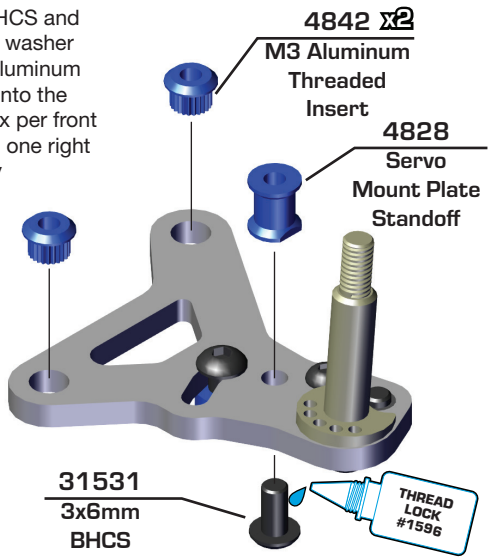


Bag 4 - Step 2

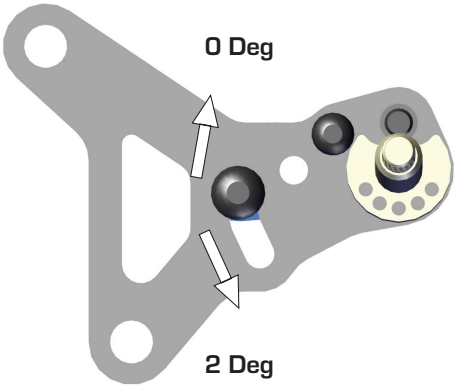
Build x1 left and x1 right side assembly.

Use an M3 × 8 SHCS and a 2mm bulkhead washer to press the M3 aluminum threaded insert into the carbon fiber part. 2x per front arm. make one left one right assembly



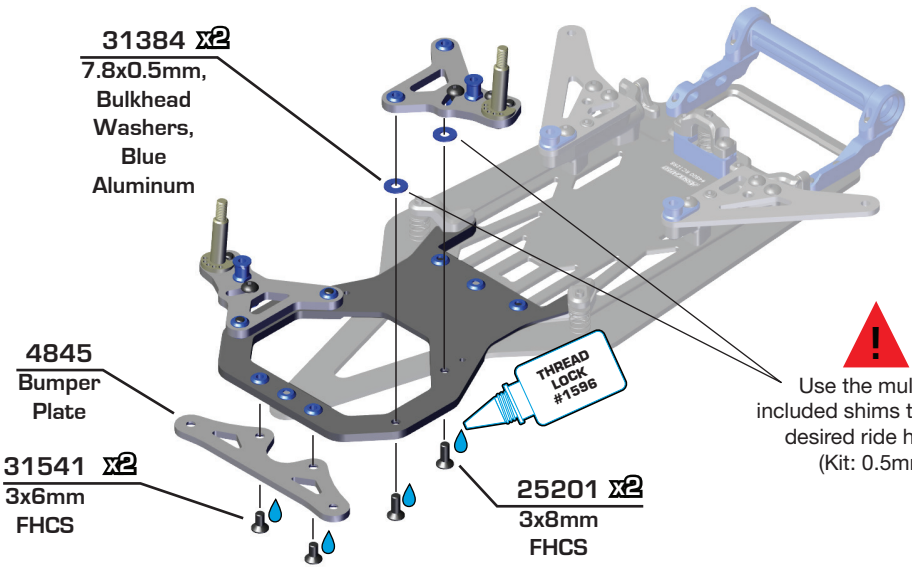


Loosen the upper screw one full turn and the lower screw half a turn. Rotate the kingpin camber retainer to set the desired camber, then tighten both screws. A setup station is recommended.



Bag 4 - Step 3

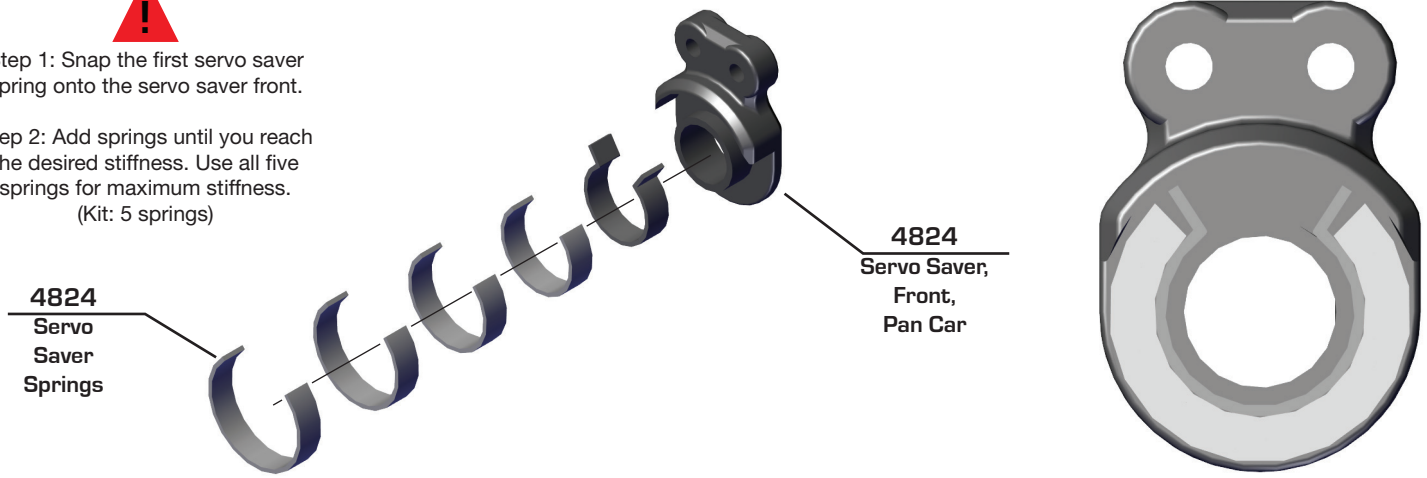
Build x1 left and x1 right side assembly.



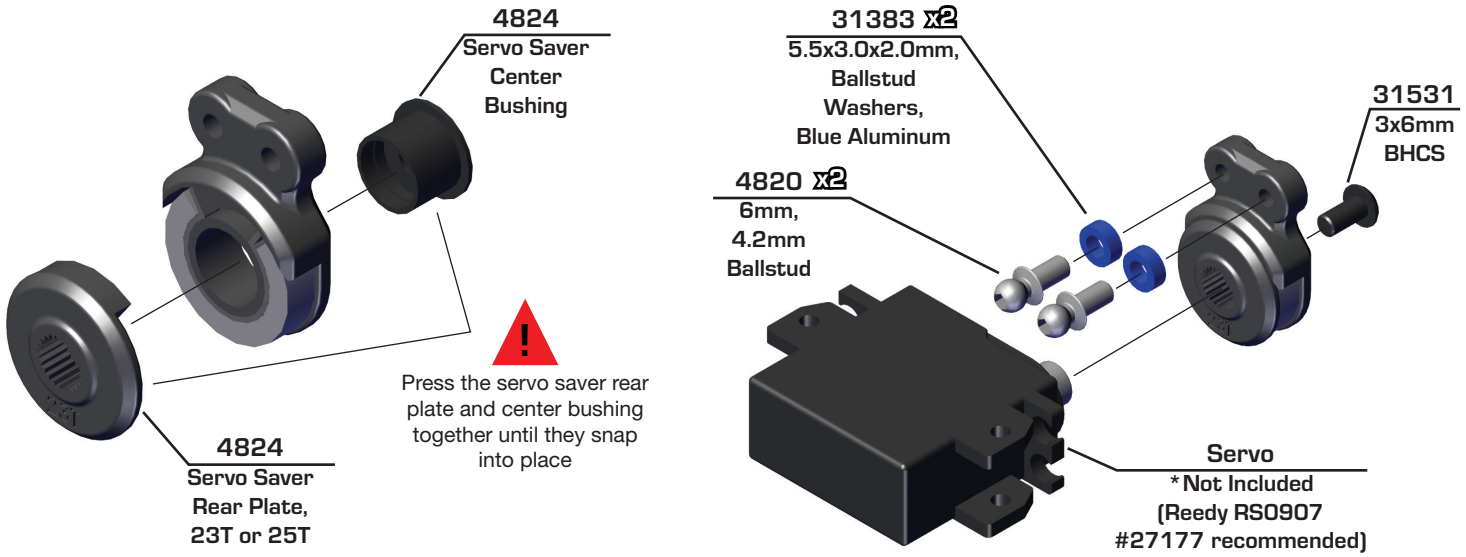
Bag 4 - Step 4

Step 1: Snap the first servo saver spring onto the servo saver front.

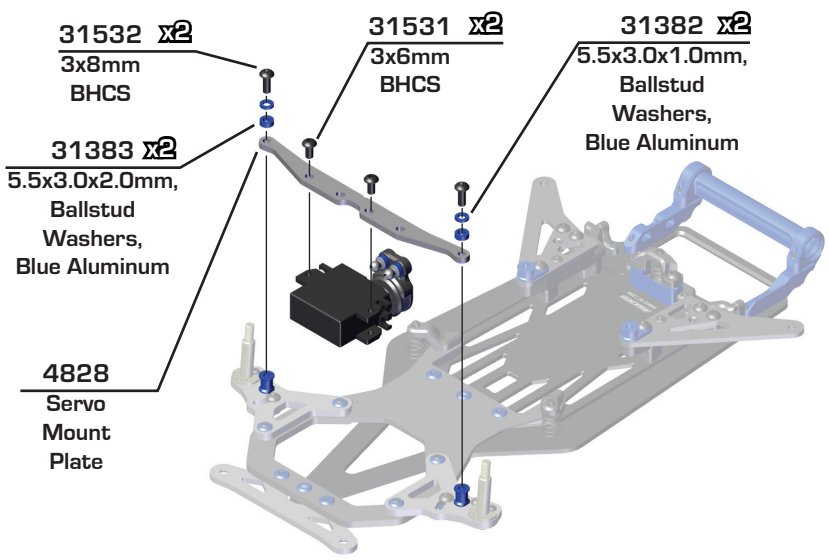
Step 2: Add springs until you reach the desired stiffness. Use all five springs for maximum stiffness. (Kit: 5 springs)



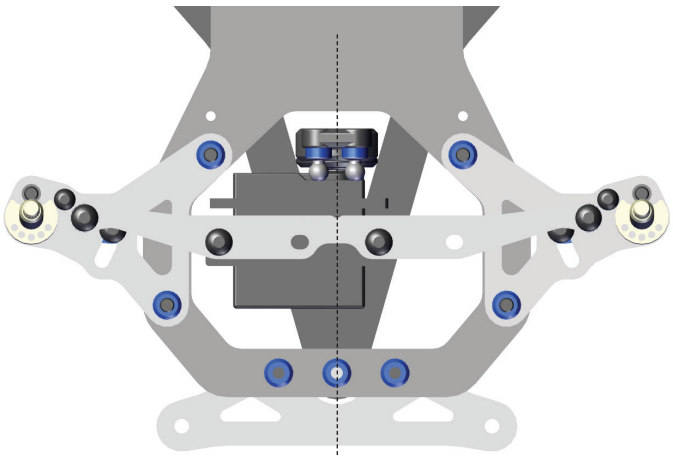
Bag 4 - Step 5



Bag 4 - Step 6



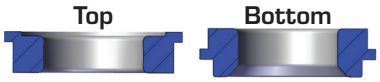
Adjust the servo so the center of the servo spline aligns with the notch on the servo mount plate.

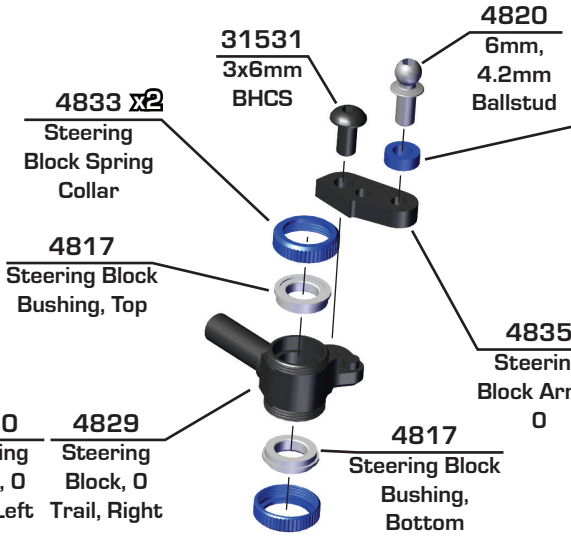


Bag 5 - Step 1

Build x1 left and x1 right side assembly.

Note the different shapes of the top and bottom bushings.





FACTORY TEAM

4834 Steering Block Arms, +1

FACTORY TEAM

4836 Steering Block Arms, -1

FACTORY TEAM

4837 Steering Block Arms, -2

FACTORY TEAM

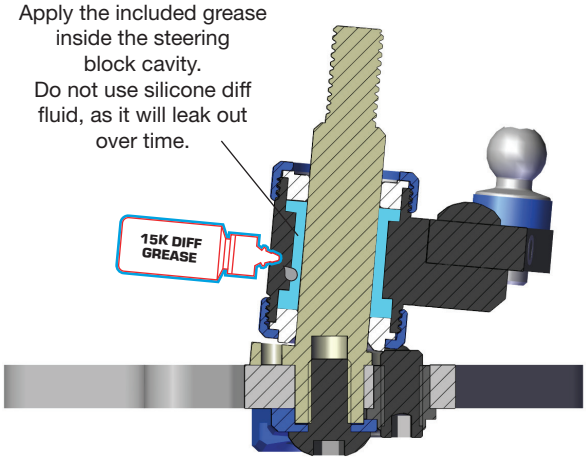
4831 Steering Block, 2 Trail, Right

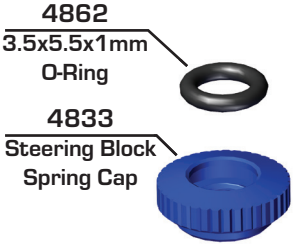
FACTORY TEAM

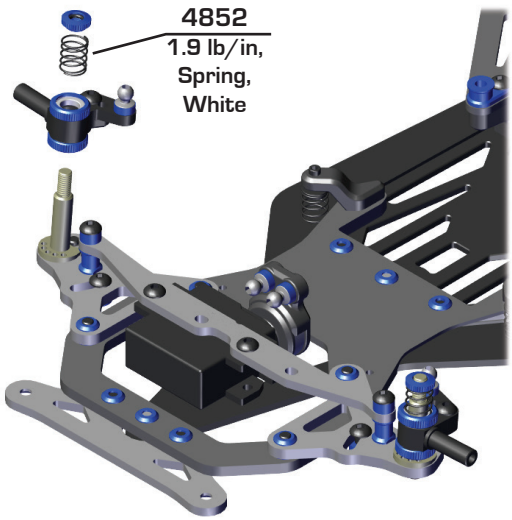
4832 Steering Block, 2 Trail, Left

Bag 5 - Step 2

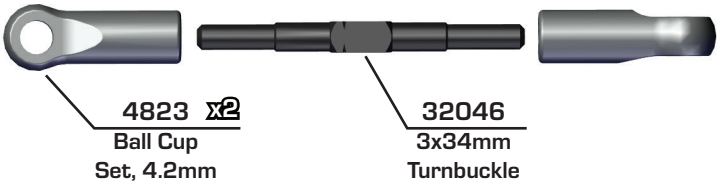
Apply the included grease inside the steering block cavity.
Do not use silicone diff fluid, as it will leak out over time.







Bag 5 - Step 3



4823 x2
Ball Cup Set, 4.2mm

32046
3x34mm Turnbuckle

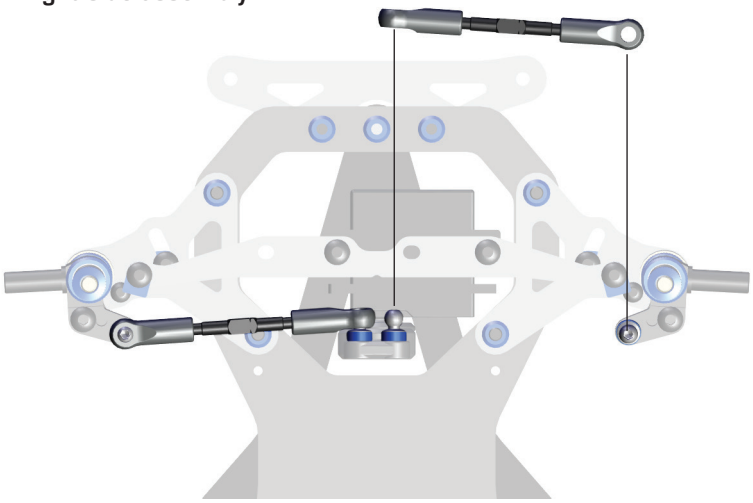
Note: Starting measurement!



Orient the notch to the left throughout the car. It indicates which end has the left had threads!



Build x1 left and x1 right side assembly.



Bag 6 - Step 1

6332 x4
Body Clip

32103 x4
Adjustable Body Mount

4822 x2
Body Post, Med / Long

Use the body post adjusters to fine tune your body position.

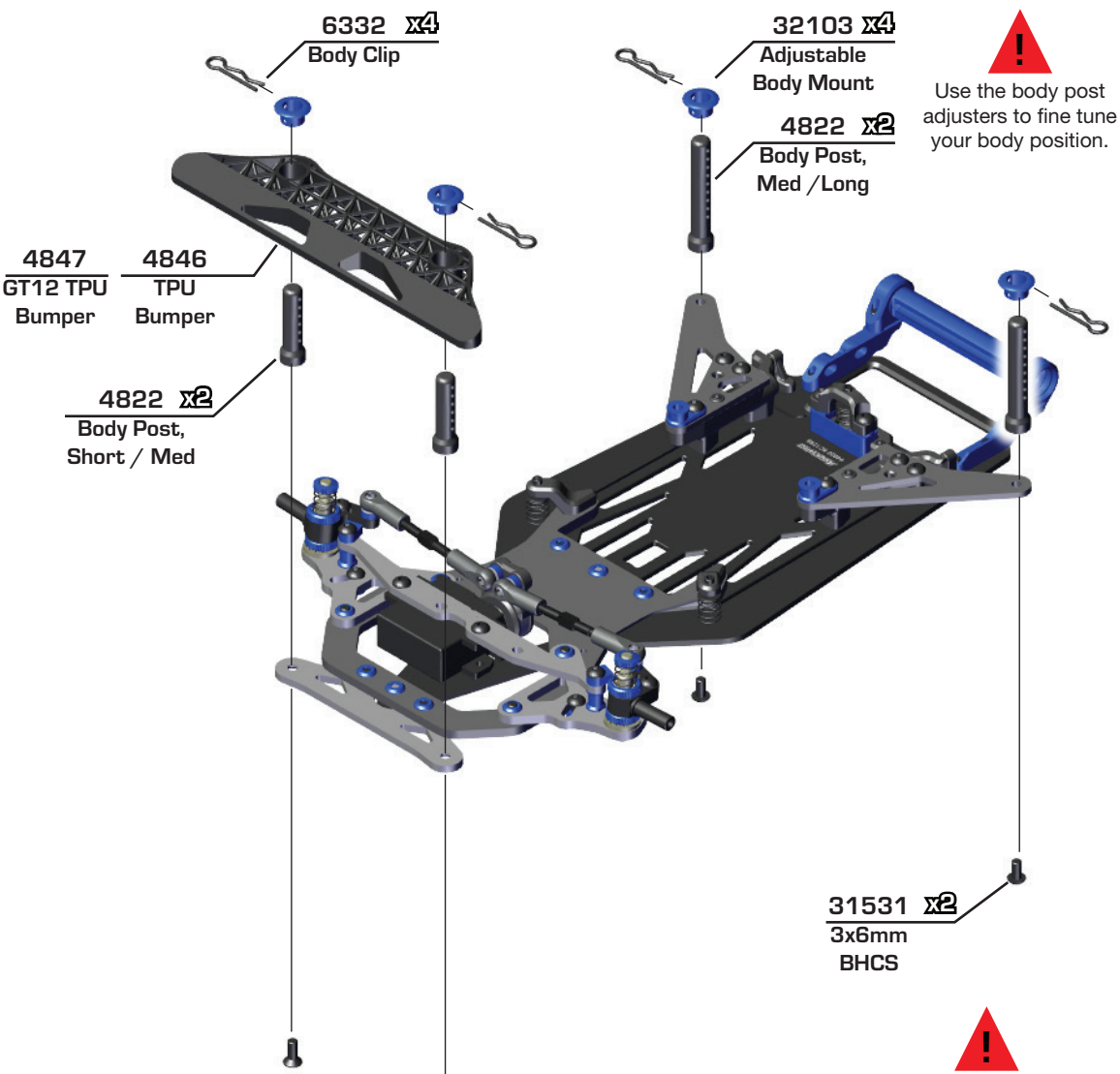
Note: For 1/12 scale bodies, use short front posts and medium rear posts.

For GT12 bodies, use medium front posts and long rear posts.

4847
GT12 TPU Bumper

4846
TPU Bumper

4822 x2
Body Post, Short / Med

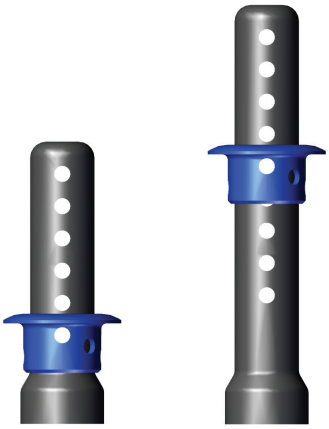


31531 x2
3x6mm BHCS

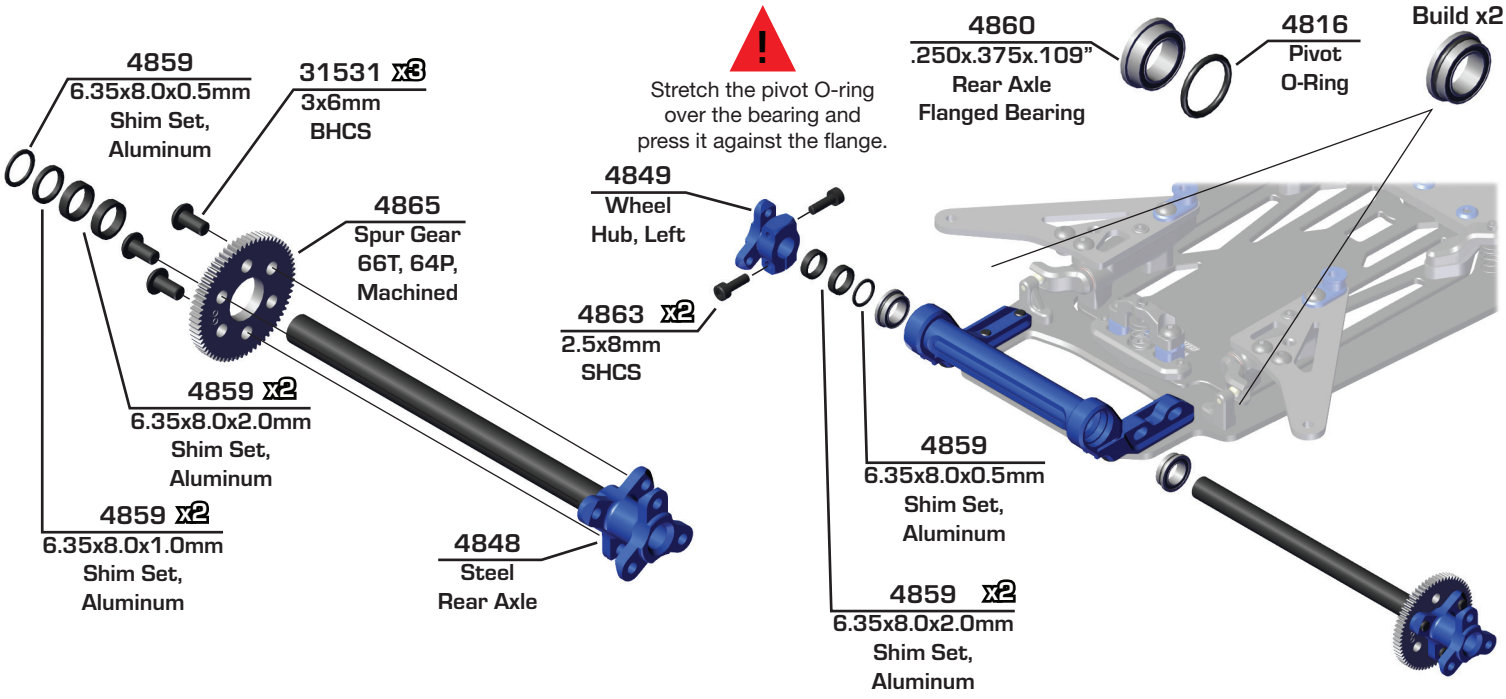
25201 x2
3x8mm FHCS

Each body post hole is a 3mm adjustment.

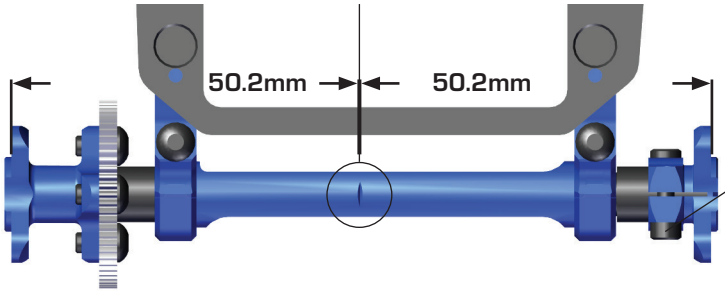
Rotate the adjustable body mount to a new set of holes for 1mm adjustments.



Bag 7 - Step 1

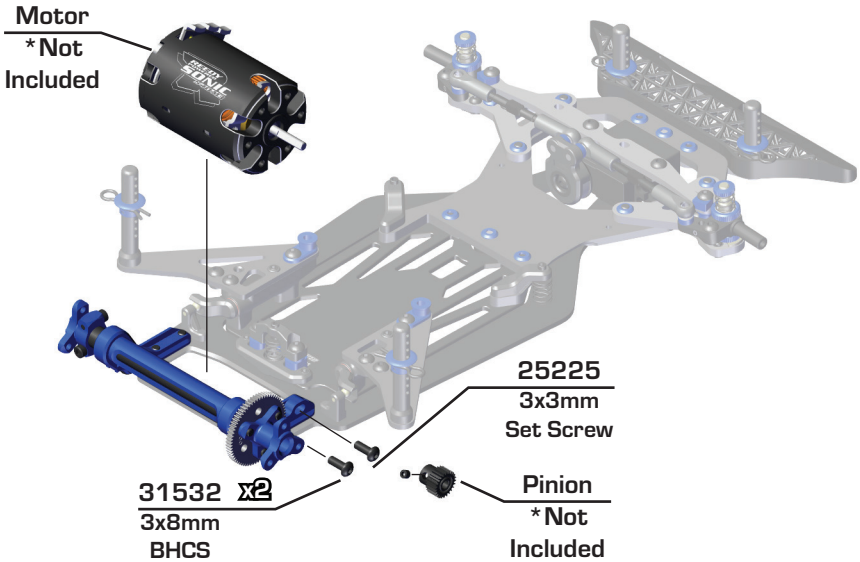


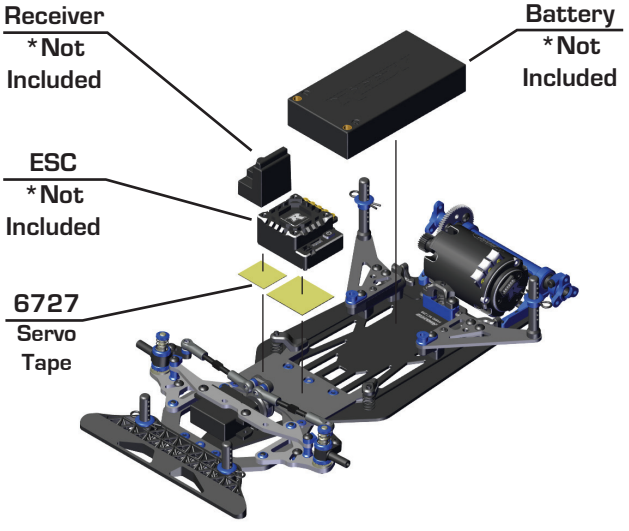
Center the rear axle by using calipers to measure from the center notch on the axle carrier to the wheel or hub face on each side. Adjust until both measurements are equal.



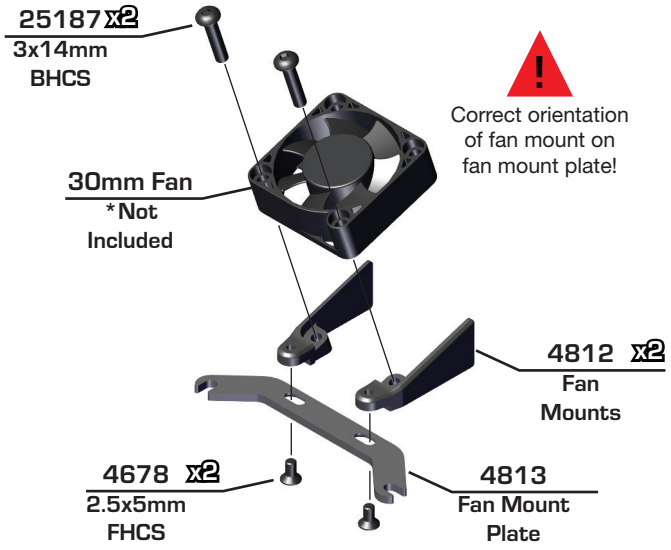
Secure the left wheel hub, leaving a small amount of back and forth play so the axle spins freely.

Bag 7 - Step 2

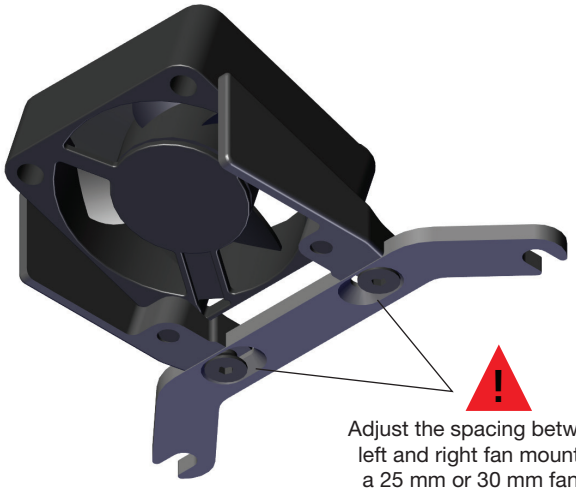




Bag 7 - Step 3

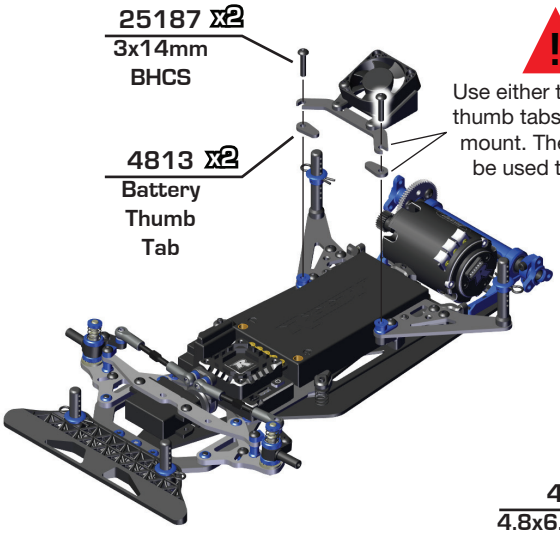


Correct orientation of fan mount on fan mount plate!

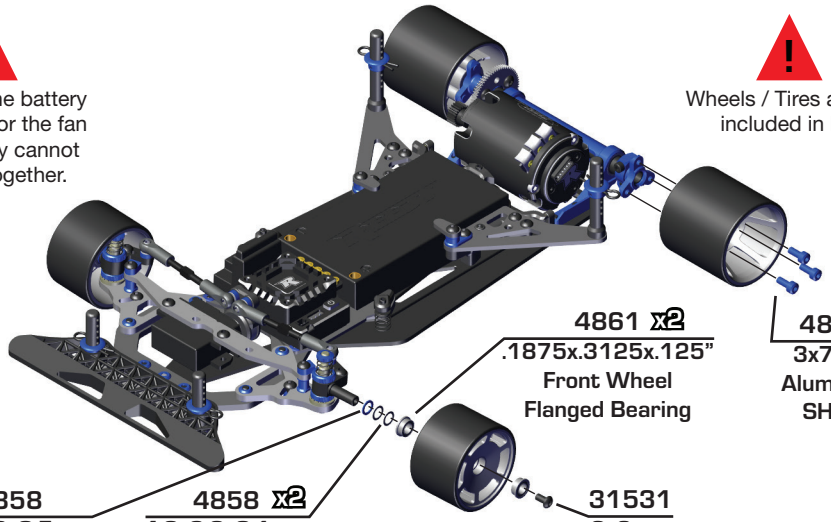


Adjust the spacing between the left and right fan mounts to fit a 25 mm or 30 mm fan. Fully tighten the screws once the fan is installed.

Bag 7 - Step 4

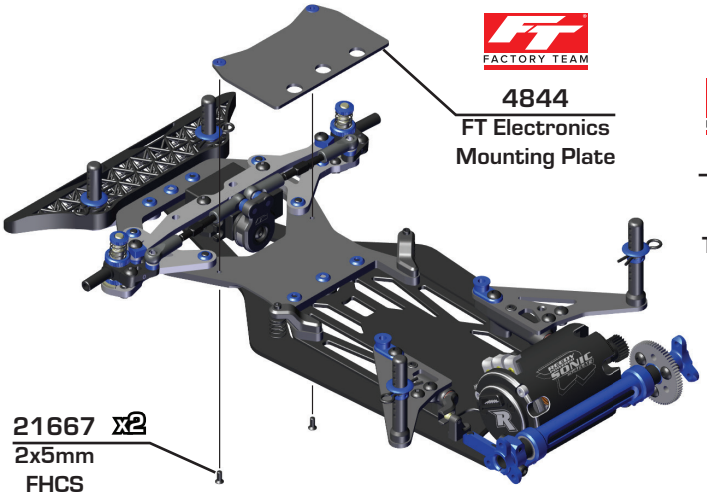


Use either the battery thumb tabs or the fan mount. They cannot be used together.



Wheels / Tires are not included in kit!

Optional Parts

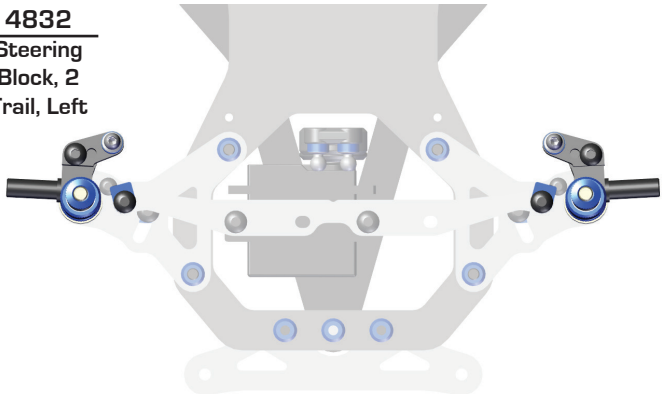


We recommend using FT trailing steering blocks with the 4826 front arm set (+2) or 4827 front arm set (+4).

Rotate the trailing steering stops to match the orientation shown in the image.

4831
Steering
Block, 2
Trail, Right

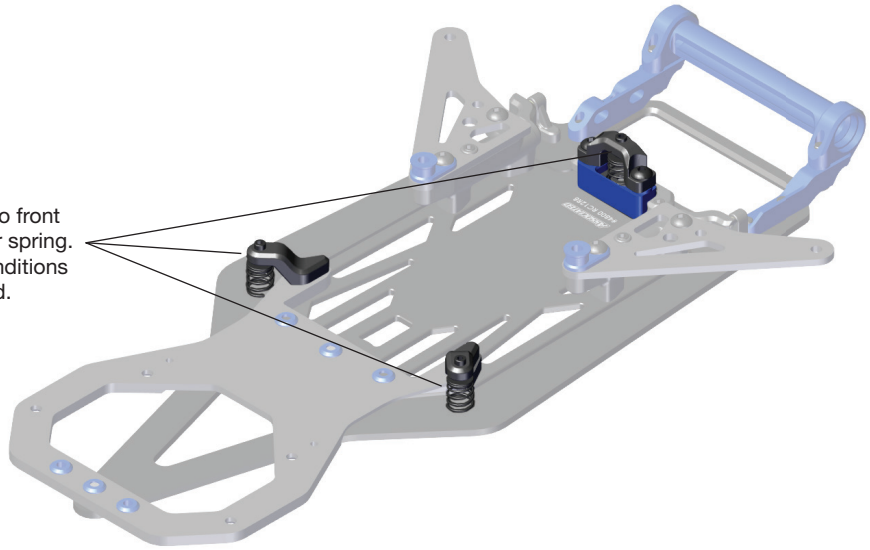
4832
Steering
Block, 2
Trail, Left



:: Optional Side and Rear Spring Builds

Spring Configuration 1 (Kit)

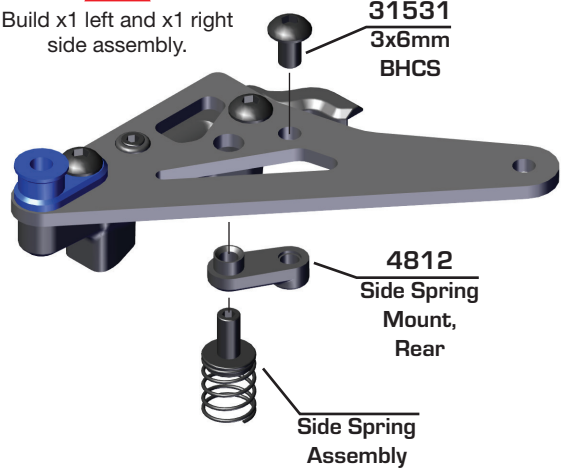
Spring configuration 1 uses two front side springs and one rear center spring. It is recommended for most conditions and is used in the kit build.

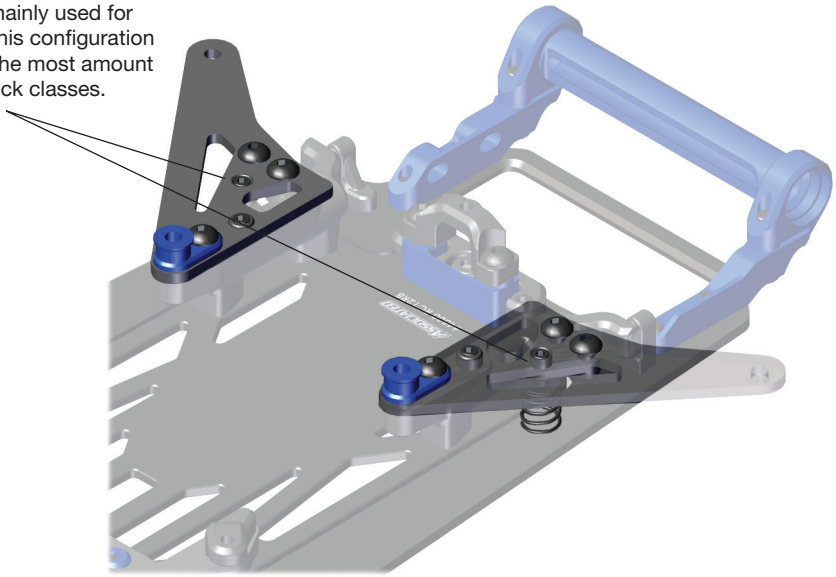


Spring Configuration 2

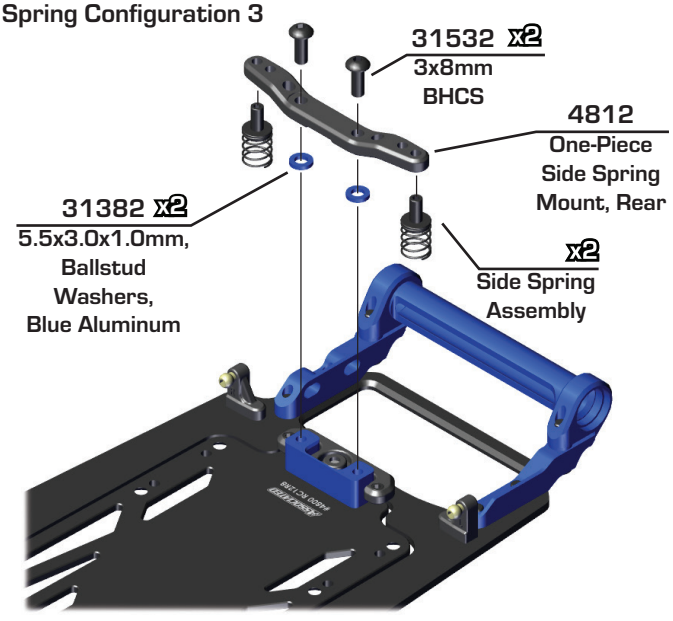
Spring configuration 2 uses two front side springs and no rear spring. The rear mount is mainly used for upstop adjustment. This configuration is recommended for the most amount of steering in stock classes.

Build x1 left and x1 right side assembly.

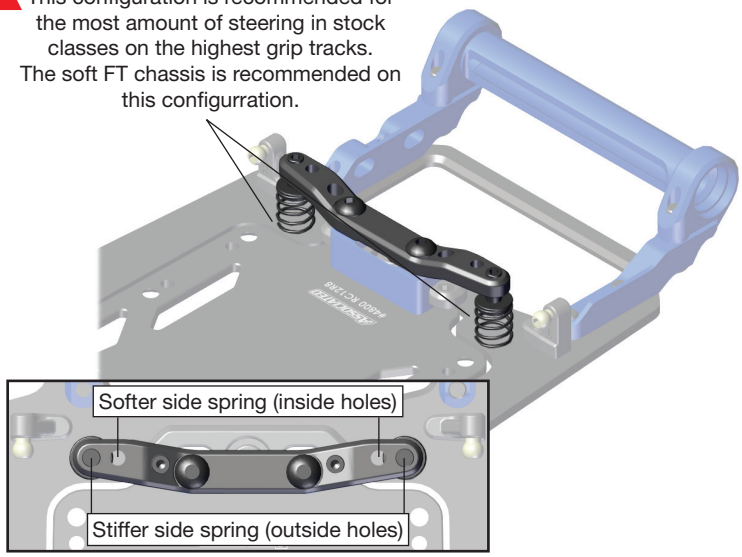




Spring Configuration 3



Spring configuration 3 uses two front side springs and no rear spring. This configuration is recommended for the most amount of steering in stock classes on the highest grip tracks. The soft FT chassis is recommended on this configurration.



:: Notes

Notes

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