

# RC8 B4

1:8 Scale 4WD Nitro Off Road  
Competition Buggy Kit



#80945 RC8B4 TEAM KIT

- SCALE 1:8 VEHICLE
- KIT
- 4 WHEEL DRIVE
- NITRO POWERED
- OFF ROAD
- NOT INCLUDED
- CLEAR BODY

1:8 Scale 4WD Nitro Off Road Competition Buggy Manual



CHAMPIONS *by* DESIGN

[AssociatedElectrics.com](http://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 Kit. Please take a moment to read through this manual to help familiarize yourself with these steps. We are continually changing and improving our designs; therefore, actual parts may appear slightly different than in 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.

## :: KIT Features

Features in the RC8B4 Kit:

- Innovative front-end geometry with new 8° inclined kingpin steering blocks are paired with a new wider upper suspension arm pivot for improved steering balance and predictable handling in all conditions
- New gearboxes are specific to front and rear
- All new front lower, front upper, and rear suspension arm designs
- New rear wing mount has adjustable wing angle shims, significant strength improvements, an aerodynamic shape, and extra clearance for shock position adjustment
- New rear wing has more vertical fins for increased straight line stability, a taller rear lip height for increased downforce, increased strength in various areas to reduce bending fatigue, and dimples on the backside as a template for cutout holes
- New rear chassis brace has several design features and flex options
- New rear hub features a symmetrical left and right common design with axle height inserts for adjustable roll center tuning. The standard bearing size used is an 8x16x5mm flanged but the hub will still accept 15x21x4mm bearing for tuning options.
- New fuel tank with many new features
- New steering bellcranks with top-mounted steering rack for extra clearance around gearbox assembly
- New aluminum steering rack designed around the updated front end geometry is lightweight and durable
- New steering bellcrank nuts are longer to reduce drag from the steering rack under flex
- Updated steering servo linkage features a new heavy duty threaded ball and steel screw joint
- New A and B blue aluminum suspension arm mounts are shaped to interlock with the RC8B4 chassis
- New RC8B4 specific 7075 aluminum hard anodized chassis features updates to strengthen the front and rear droop tab areas and an increased width along kick up area
- New upper suspension arm link mount is significantly wider than RC8B3 series, providing the required geometry for the new 8° steering blocks
- New front shock tower has strength improvements and allows for the upper suspension arm insert to be mounted from front side via a recessed pocket, without disassembly of the tower from the gearbox
- New carbon fiber front top plate centralizes the front chassis brace for balanced flex in all directions
- New front body post is recessed into the front top plate and the reversible design is easy to mount
- New spring cups and shock rod end design has a locking screw to keep the cups in place during a crash
- New front shock bushings are 1.5mm longer, and rear shock bushings are 4mm than RC8B3 shock mounts
- New exhaust hanger mount and spring
- New carbon fiber radio tray brace for repositioned steering servo
- New brake pads and a new brake rotor design that has clearance to accept a 14mm driveshaft pin for longer outdrive life
- New two-piece rear body post features a rubber grommet to allow some flex to extend the life of the body

## :: Additional

Your new RC8B4 Kit comes as a kit. There are some items you will need to complete your kit (refer to website for suggestions):

- 4.8-7.4v receiver battery (Flat style NiMH, Flat style LiPo, Flat style LiFe)
- 2 or 3 channel radio/transmitter set with switch (2.4GHz recommended)
- Throttle and Steering servos
- Model car fuel (20-30% nitro recommended)
- .21 class rear exhaust engine
- 1:8 scale buggy wheels / tires
- CA (cyanoacrylic) glue - (#1597)
- Thread-locking compound - (#1596)
- Polycarbonate-specific paint
- Starter box - (#1751)
- Exhaust system
- Fuel bottle - (#1747)
- Ride height gauge
- Transmitter batteries
- Reamer / hole punch
- Glow igniter - (#27377)
- Needle-nose pliers
- Hobby knife

## :: Other Helpful Items

- Silicone Shock/Diff Fluids (Refer to website for complete listings)
- Shock Pliers
- Reamer / Hole Punch - (#1499)
- FT Hex Wrenches - (#1518)
- Wire Cutters
- Body Scissors (AE #1737)
- FT Nut Drivers - (#1519)
- Calipers or a Precision Ruler

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



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**:: Hardware - 1:1 Scale View**

**Flat Head (fhcs)**

	<b>2.5x6mm (4675)</b>
	<b>2.5x8mm (31448)</b>
	<b>3x5mm (31540)</b>
	<b>3x6mm (31541)</b>
	<b>3x8mm (25201)</b>
	<b>3x10mm (25202)</b>
	<b>3x12mm (25203)</b>
	<b>3x14mm (89208)</b>
	<b>3x30mm (89212)</b>
	<b>4x10mm (81262)</b>
	<b>4x12mm (89214)</b>
	<b>4x14mm (89217)</b>
	<b>4x16mm (81263)</b>
	<b>4x20mm (81264)</b>

**Button Head (bhcs)**

	<b>2.5x6mm (31520)</b>
	<b>2.5x8mm (31521)</b>
	<b>2.5x18mm (81259)</b>
	<b>3x6mm (31531)</b>
	<b>3x8mm (31532)</b>
	<b>3x10mm (25211)</b>
	<b>3x12mm (89202)</b>
	<b>3x14mm (25187)</b>
	<b>3x16mm (89203)</b>
	<b>3x18mm (2308)</b>
	<b>3x20mm (25188)</b>
	<b>3x22mm (25189)</b>
	<b>3x24mm (89204)</b>
	<b>4x14mm (81260)</b>
	<b>4x16mm (81261)</b>

**Set Screws**

	<b>3x3mm (25225)</b>
	<b>3x6mm (81257)</b>
	<b>3x10mm (4671)</b>
	<b>3x12mm (81258)</b>
	<b>4x4mm (7732)</b>
	<b>5x4mm (89221)</b>

**Ball Bearings**

	<b>5x8x2.5mm (8680)</b>
	<b>5x10x4mm (91560)</b>
	<b>6x10mm (31404)</b>
	<b>6x13x5mm flanged (91559)</b>
	<b>8x16x5mm (91564)</b>
	<b>8x16x5mm flanged (91565)</b>

**Socket Head (shcs)**

	<b>2x5mm (31511)</b>
	<b>2x16mm (7184)</b>
	<b>3x10mm (25620)</b>
	<b>3x12mm (89454)</b>
	<b>3x24mm (89225)</b>
	<b>3x26mm (89226)</b>
	<b>3x28mm (89227)</b>

**LP Socket Head (lp shcs)**

	<b>3x6mm (41089)</b>
	<b>3x10mm (41090)</b>
	<b>3x14mm (41094)</b>
	<b>3x16mm (41093)</b>
	<b>3x20mm (41091)</b>

**Nuts (lock/plain)**

	<b>M3 Nut (91477)</b>
	<b>M3 Alum. Locknut, Blue (31550)</b>
	<b>M3 Locknut, Black (25215)</b>
	<b>M3 Locknut w/Flange (25612)</b>
	<b>FT 3mm Locknuts, Blue(25392)</b>
	<b>FT M4 Locknut, Blue (31551)</b>
	<b>M4 Locknut, Serrated (91738)</b>

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## :: Notes



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



***This symbol indicates a specific build order in the manual.***



***This symbol indicates a Racers Tip.***



***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.***

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**:: Differential Build (Front and Rear) - Bag 1.1, 1.2 - Step 1**

**#6588 black grease**

**81379 Diff Case**

**81385 Outdrive O-Ring 5.8x1.9mm**

**91564 8x16x5 Bearing**

**81381 Diff Shim 6x8x0.20mm**

**#6588 black grease**

**81008 15mm Outdrive**

**81380 Pin 2.5x12mm**

Set aside 13x15.8mm shims until diff install

**81380 Diff Sun Gear, 20T, HTC**

Align pin with groove in sun gear

**:: Differential Build (Front and Rear) - Bag 1.1, 1.2 - Step 2**

**81381 x4 Diff Shim 3.6x12x0.12mm**

**81380 x4 Diff Planet Gear, 10T, HTC**

**81380 x2 Diff Crosspin**

**#6588 black grease**

**81385 Outdrive O-Ring 5.8x1.9mm**

**81009 Diff Ring Gear, 42T**

**91564 8x16x5 Bearing**

**81381 Diff Shim 6x8x0.20mm**

**#6588 black grease**

**81008 15mm Outdrive**

**:: Differential Build (Front and Rear) - Bag 1.1, 1.2 - Step 3**

**81380 Pin 2.5x12mm**

**81380 Diff Sun Gear, 20T, HTC**

**81384 Diff Gasket**

**#6588 black grease**

**Racer's Tip:**  
Use black grease (#6588) to coat the back side of the diff gasket (i.e. not the entire gasket) before installation!

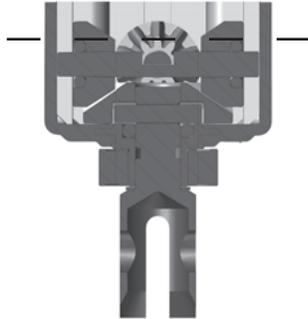
Align pin with groove in sun gear

**:: Differential Build (Front and Rear) - Bag 1.1, 1.2 - Step 4**



**Racer's Tip:**

Fill diff above the cross pins, below the planet gears as shown.



**89208**  $\times 4$   
**3x14mm**  
**FHCS**



**Front Diff Fluid:**  
**5,000cst #5453**

**Rear Diff Fluid:**  
**5,000cst #5453**

**:: Differential Build (Center) - Bag 1.1, 1.2 - Step 5**



**81385**  
**Outdrive**  
**O-Ring**  
**5.8x1.9mm**

**81380**  
**Pin**  
**2.5x12mm**

**81380**  
**Diff Sun**  
**Gear, 20T,**  
**HTC**

**81379**  
**Diff**  
**Case**

**91564**  
**8x16x5**  
**Bearing**

**81381**  
**Diff Shim**  
**6x8x0.20mm**

**81008**  
**15mm**  
**Outdrive,**  
**Center Diff**



Align pin with groove in sun gear

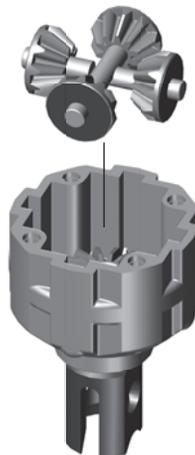


**:: Differential Build (Center) - Bag 1.1, 1.2 - Step 6**

**81381**  $\times 4$   
**Diff Shim**  
**3.6x12x0.12mm**

**81380**  $\times 4$   
**Diff Planet**  
**Gear, 10T,**  
**HTC**

**81380**  $\times 2$   
**Diff**  
**Crosspin**



**81385**  
**Outdrive**  
**O-Ring**  
**5.8x1.9mm**

**81386**  
**Spur Gear,**  
**46T**

**91564**  
**8x16x5**  
**Bearing**

**81381**  
**Diff Shim**  
**6x8x0.20mm**

**81008**  
**15mm**  
**Outdrive,**  
**Center Diff**



**:: Differential Build (Center) - Bag 1.1, 1.2 - Step 7**

**81380**  
**Pin**  
2.5x12mm



**81380**  
**Diff Sun Gear, 20T, HTC**



**81384**  
**Diff Gasket**



**#6588**  
**black grease**



Align pin with groove in sun gear

**Racer's Tip:**

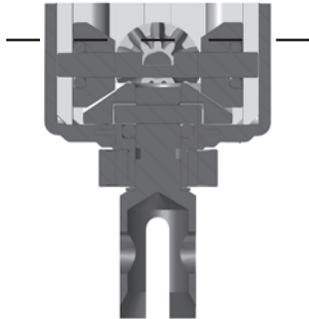
Use black grease [#6588] to coat the back side of the diff gasket (i.e. not the entire gasket) before installation!

**:: Differential Build (Center) - Bag 1.1, 1.2 - Step 8**



**Racer's Tip:**

Fill diff above the cross pins, below the planet gears as shown.



**89208**   
**3x14mm**  
**FHCS**

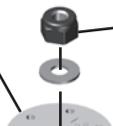


**Diff Fluid**

**Center Diff Fluid:**  
**10,000cst #5455**

**:: Shocks Build - Bag 2.1 - Step 1**

**81200**  
**Shock Piston**  
**(8x1.2 tapered)**  
**Front and Rear**



**89215**  
**2.5mm Shock Piston Locknut**

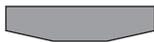
**89278**   
**2.6x6mm**  
**Washer**

**81172**  
**TiN Shock Shaft,**  
**3.5x33.5mm**  
**(Front)**

**81173**  
**TiN Shock Shaft,**  
**3.5x42.5mm**  
**(Rear)**



Install pistons taper down



**81160**  
**Shock Body,**  
**30.5mm**  
**(Front)**



**81161**  
**Shock Body,**  
**39.5mm**  
**(Rear)**

**81185**  
**Shock Body**  
**O-Ring**

**81185**  
**O-Ring Hat**  
**Bushing**

**81188**  
**Shock Body**  
**Seal**  
**Retainer**

**81186**   
**Shock**  
**O-Ring**

**81185**  
**O-Ring**  
**Spacer**

**:: Shocks Build - Bag 2.1 - Step 2**

**Racer's Tip:**  
Use green slime (#1105) to lube the o-rings before installation!

**81190 Shock Boots**  
**81562 Rod End Ball**  
**81512 Shock Rod End**  
**81452 RC8B3.2 Shock Cap**  
**81512 Shock Cap Insert**  
**91492 2x4mm BHCS**  
**91492 Gasket** (2)  
**81453 Bladder, Stiff** (1)

When installing the shock bladder, make sure it is correctly seated within the shock cap as shown.

**:: Shocks Build - Bag 2.1 - Step 3**

Fill to top of shock body.  
**Front Shock Fluid: 45wt #5430**  
**Rear Shock Fluid: 40wt #5423**

Leave a gap when installing the shock cap.

Compress shock shaft fully. Let shock fluid bleed from cap, then tighten cap.

For more rebound, do not compress shock shaft as far before tightening the shock cap.

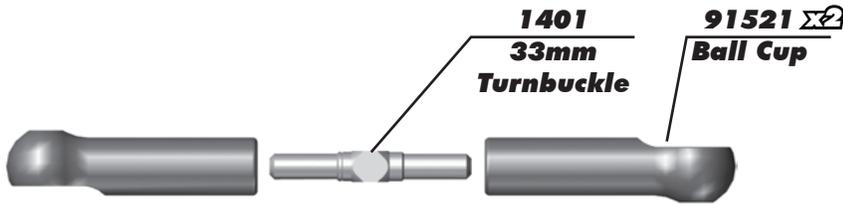
**:: Shocks Build - Bag 2.1 - Step 4**

The springs come with a colored marking pre-installed for easy identification

**81221 Spring Collar O-Ring, 20mm**  
**81221 Spring Collar, 20mm**  
**81225 V2 Front Spring, Blue (5.50lb/in)**  
**81236 V2 Rear Spring, Green (4.00lb/in)**  
**81512 Spring Cup** (1)  
**25211 3x10mm BHCS** (2)

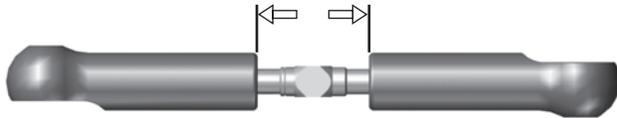
**:: Turnbuckles Build - Bag 3.1 - Step 1**

**Steering Servo Turnbuckle**



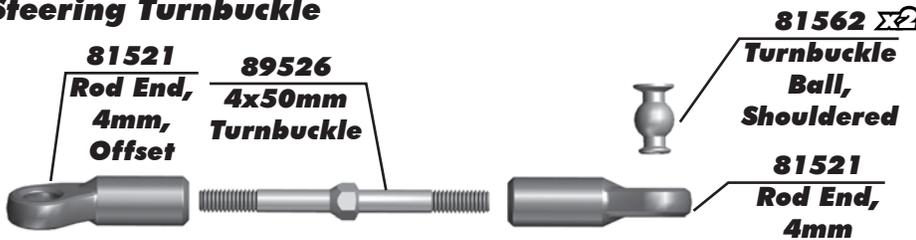
**!**  
Set aside until page 22

**15.00mm (0.59")**



**:: Turnbuckles Build - Bag 3.1 - Step 2**

**Steering Turnbuckle**



**!**  
Note the direction of turnbuckle ball

**25.00mm (0.98")**

**!**  
Set aside until page 15



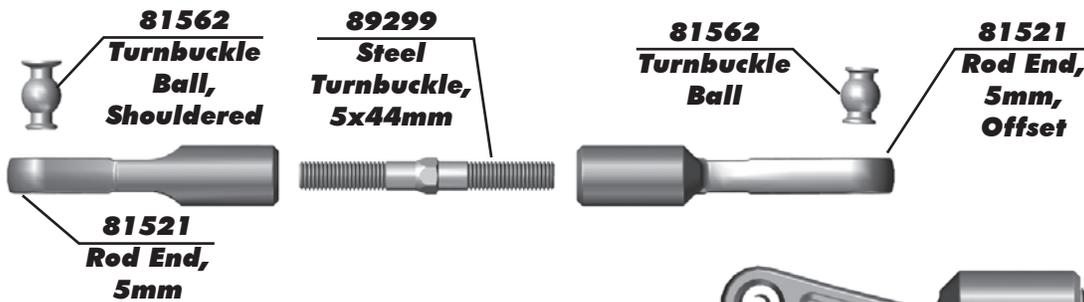
**Left Turnbuckle**



**Right Turnbuckle**

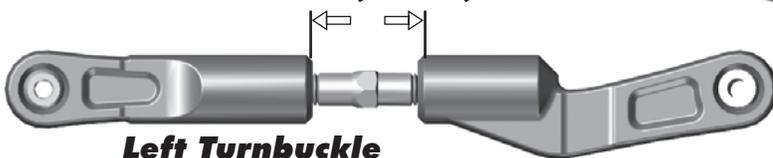
**:: Turnbuckles Build - Bag 3.1 - Step 3**

**Rear Hub Turnbuckle**



**!**  
Set aside until page 19

**16.00mm (0.62")**

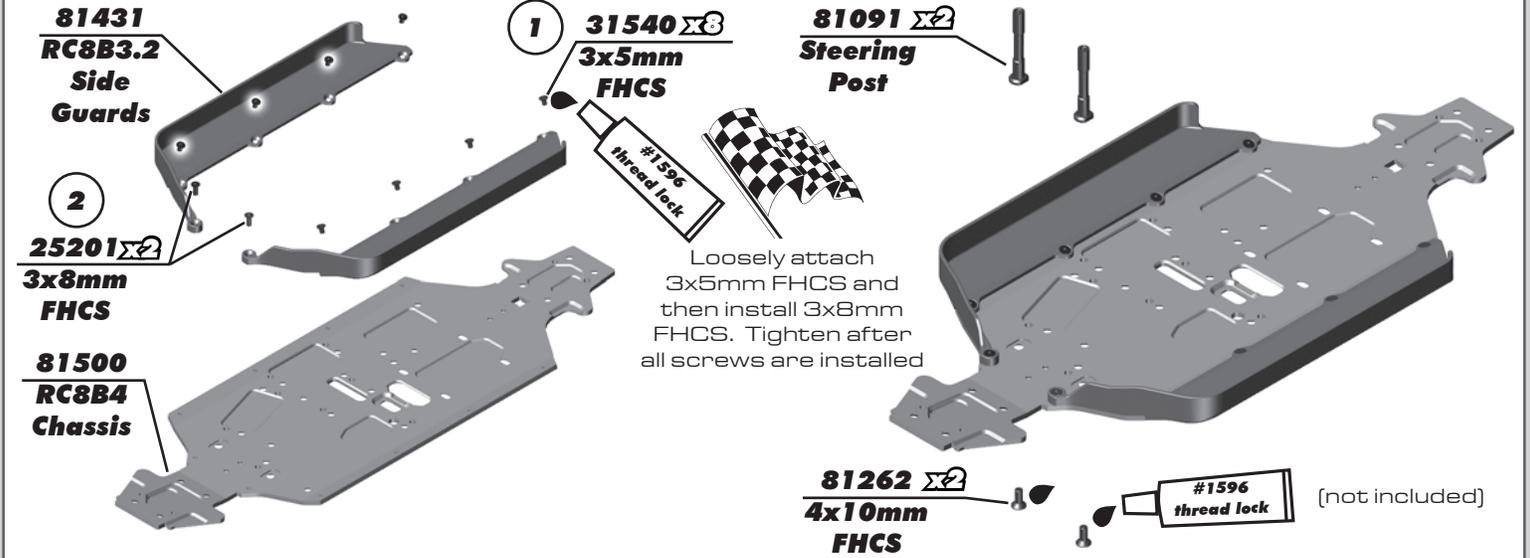


**Left Turnbuckle**

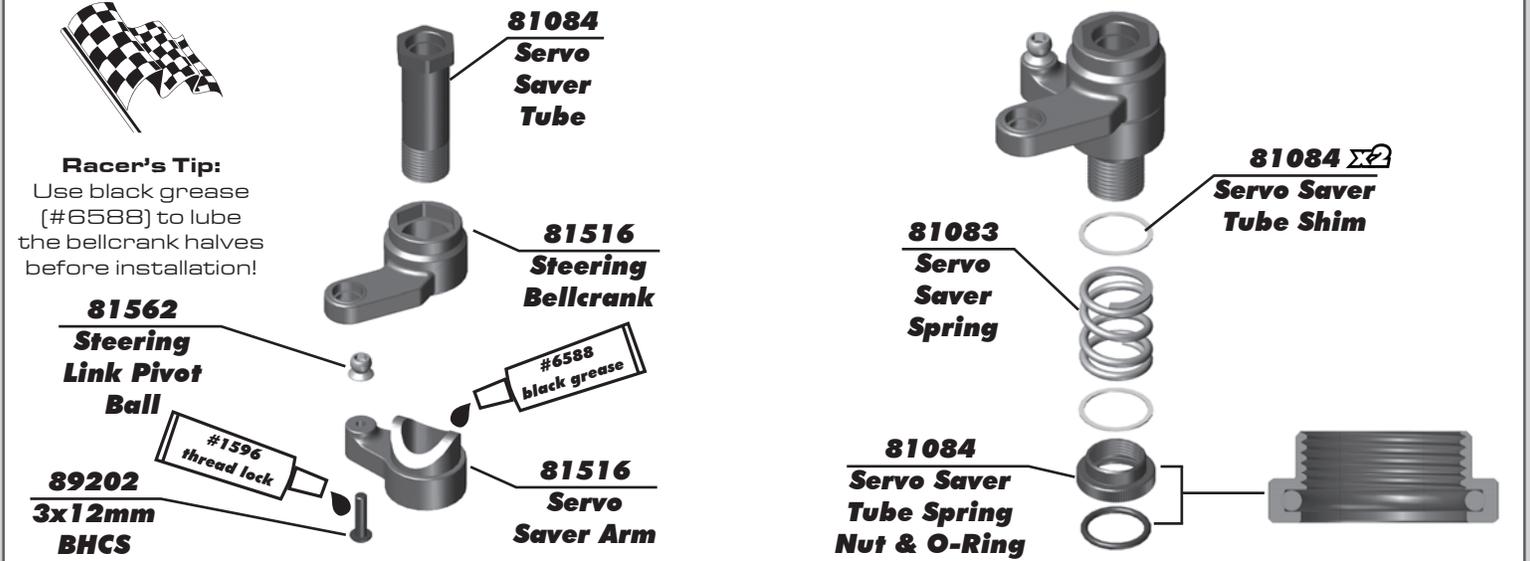


**Right Turnbuckle**

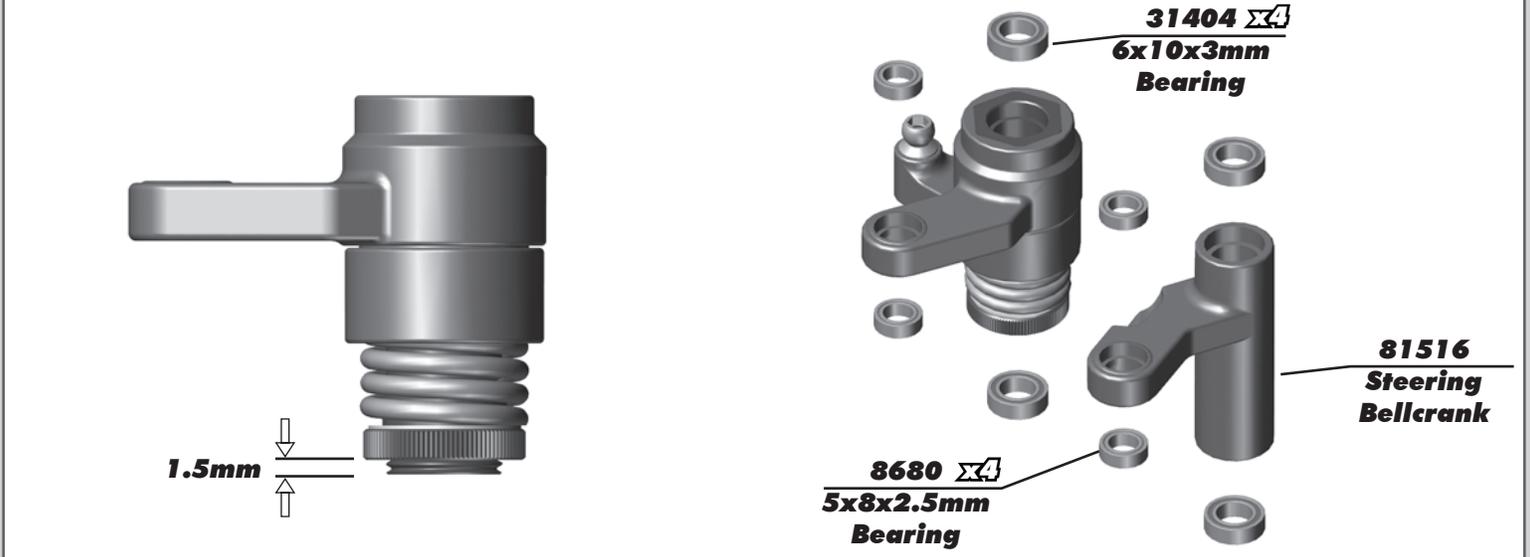
**:: Steering / Chassis Build - Bag 4.1 - Step 1**



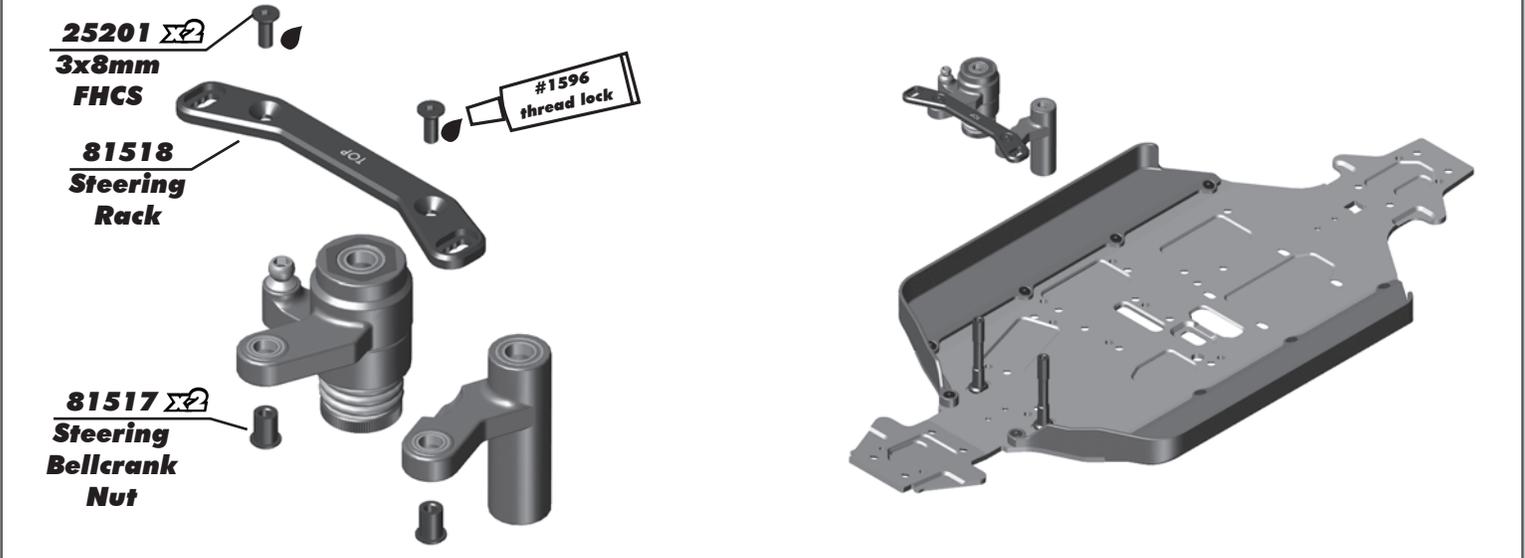
**:: Steering / Chassis Build - Bag 4.1 - Step 2**



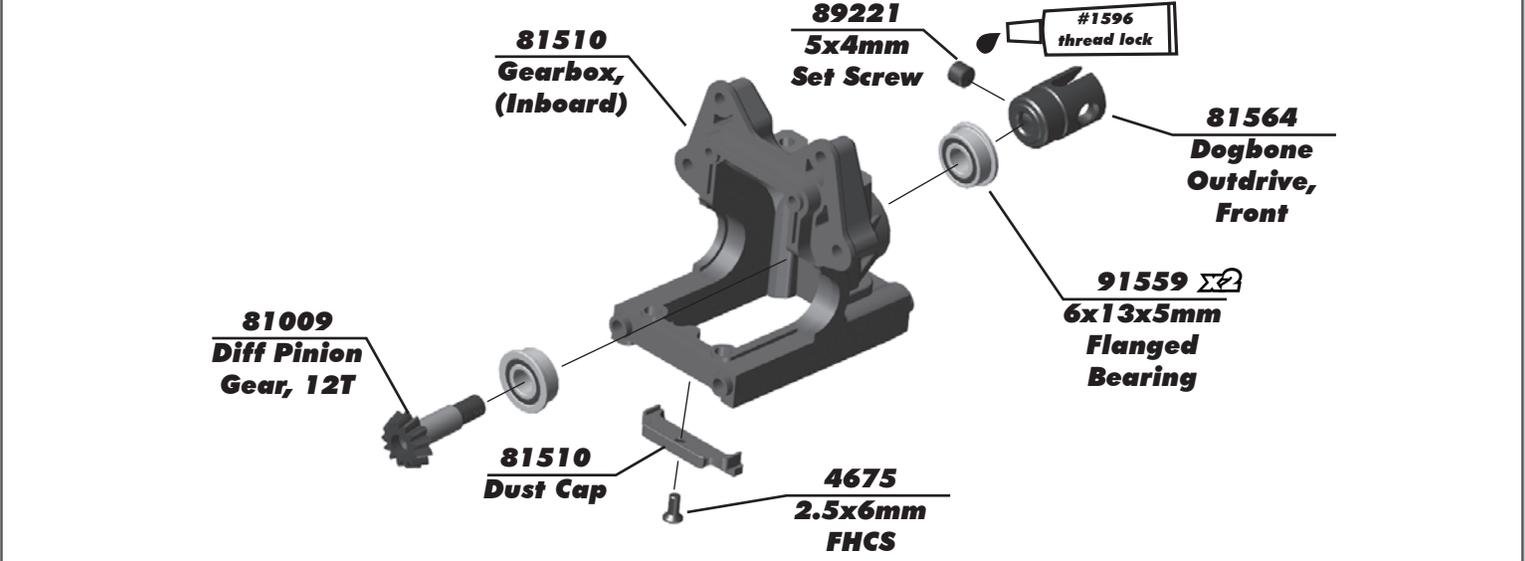
**:: Steering / Chassis Build - Bag 4.1 - Step 3**



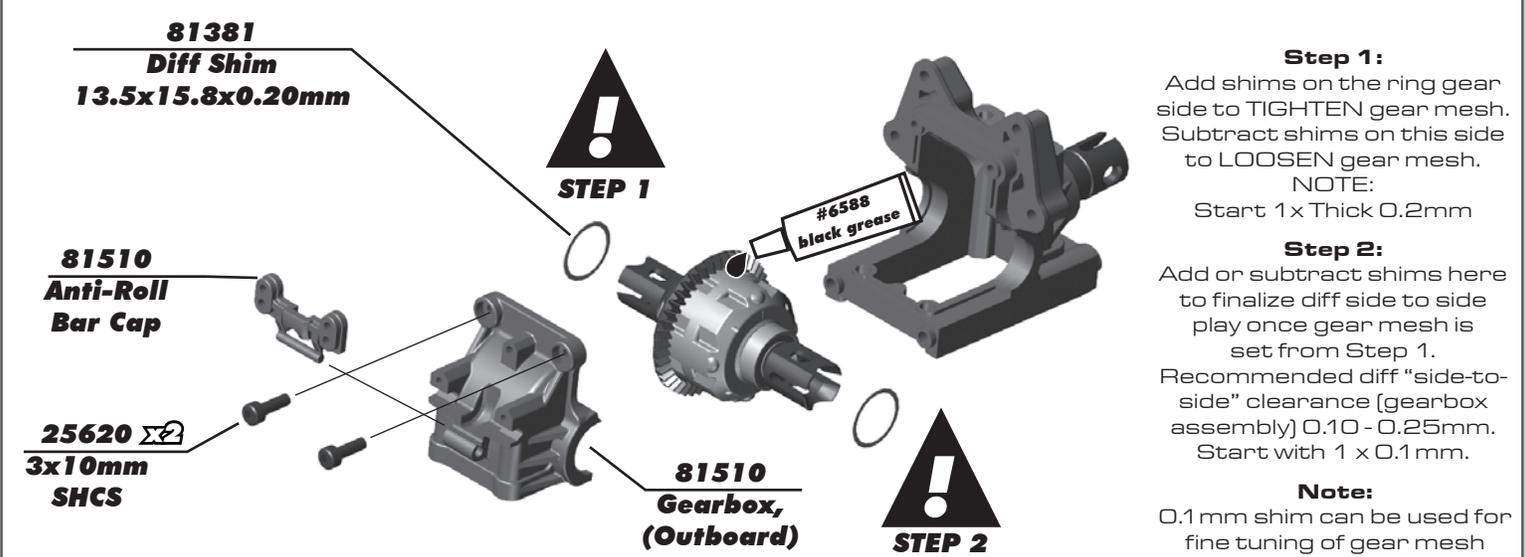
**:: Steering / Chassis Build - Bag 4.1 - Step 4**



**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 1**



**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 2**



**Step 1:**

Add shims on the ring gear side to TIGHTEN gear mesh. Subtract shims on this side to LOOSEN gear mesh.

**NOTE:**

Start 1x Thick 0.2mm

**Step 2:**

Add or subtract shims here to finalize diff side to side play once gear mesh is set from Step 1.

Recommended diff "side-to-side" clearance (gearbox assembly) 0.10 - 0.25mm. Start with 1 x 0.1mm.

**Note:**

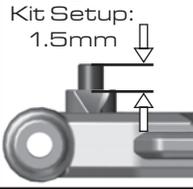
0.1 mm shim can be used for fine tuning of gear mesh

**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 3**

**Kit Setup:**



**Drop Screw:**

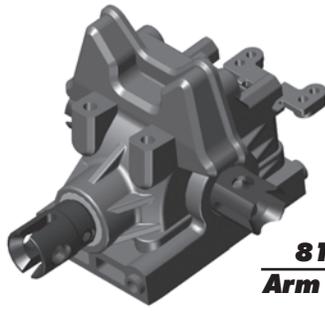


**Build left and right side!**

**81520**  $\Sigma 2$   
**Arm Mount Insert, Center**

**81567**  
**Arm Mount B**

**81260**  $\Sigma 2$   
**4x14mm BHCS**



**81566**  
**Arm Mount A**

**81260**  $\Sigma 2$   
**4x14mm BHCS**

**81520**  $\Sigma 2$   
**Arm Mount Insert, Center**



**81446**  $\Sigma 2$   
**Suspension Arm Shim**

**81060**  $\Sigma 2$   
**Hinge Pin**

**89317**  
**Drop Screw**

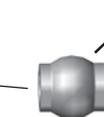
**81528**  
**Front Arm, Lower**

**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 4**

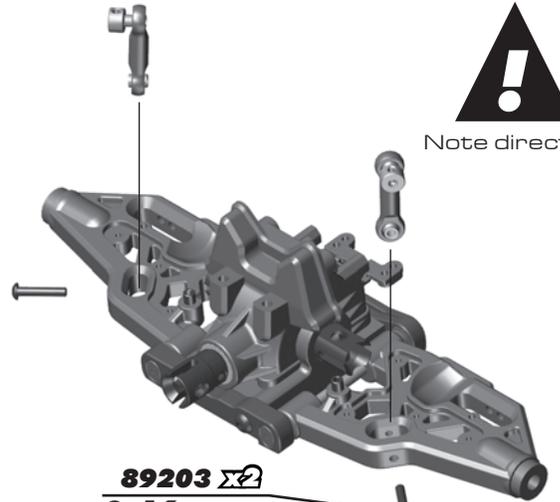
**81512**  $\Sigma 2$   
**Anti-Roll Bar Link**

**81585**  
**Anti-Roll Bar Pivot**

**81562**  
**Rod End Ball**



**!**  
Note direction



**89203**  $\Sigma 2$   
**3x16mm BHCS**

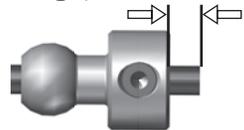
**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 5**



Center the anti-roll bar collet on the anti-roll bar; then tighten the 3x3mm set screw.



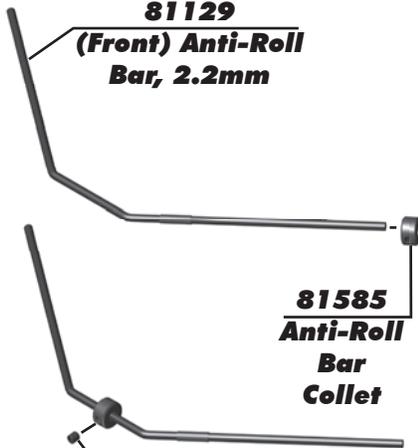
Front anti-roll bar gap: 2.0mm



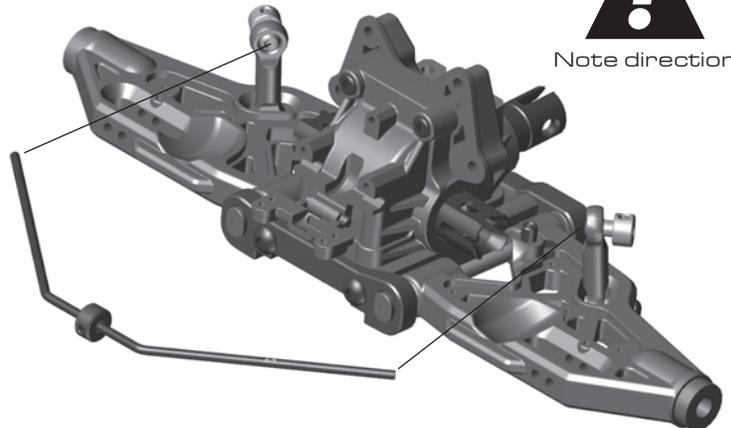
**81129**  
**(Front) Anti-Roll Bar, 2.2mm**

**81585**  
**Anti-Roll Bar Collet**

**25225**  
**3x3mm Set Screw**



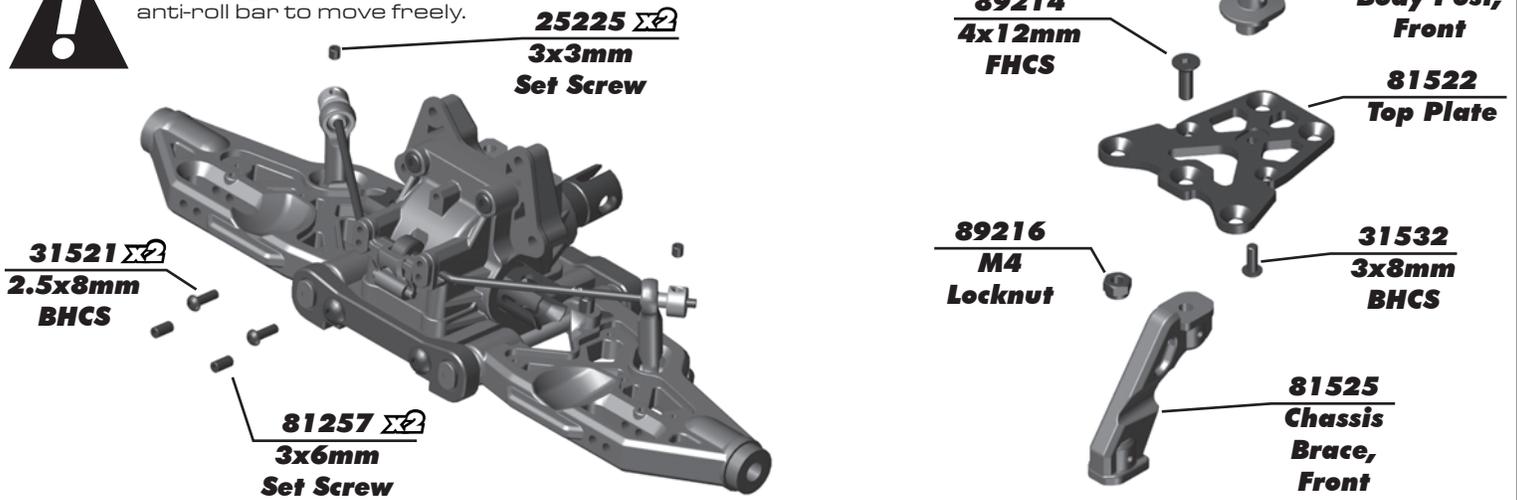
Note direction



**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 6**

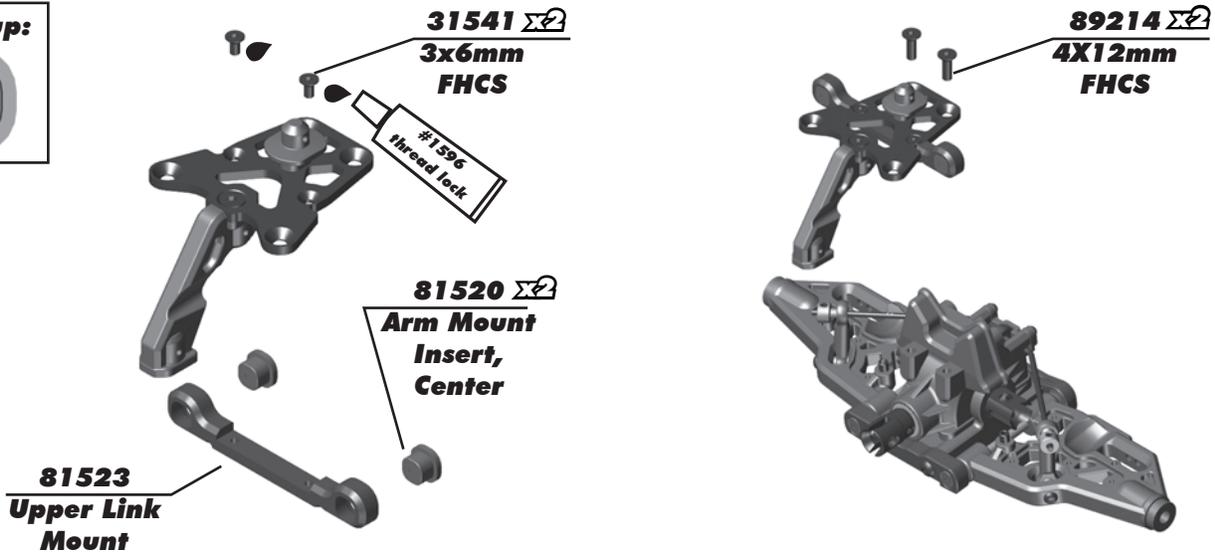


Tighten 3x6mm set screws just enough to still allow the anti-roll bar to move freely.



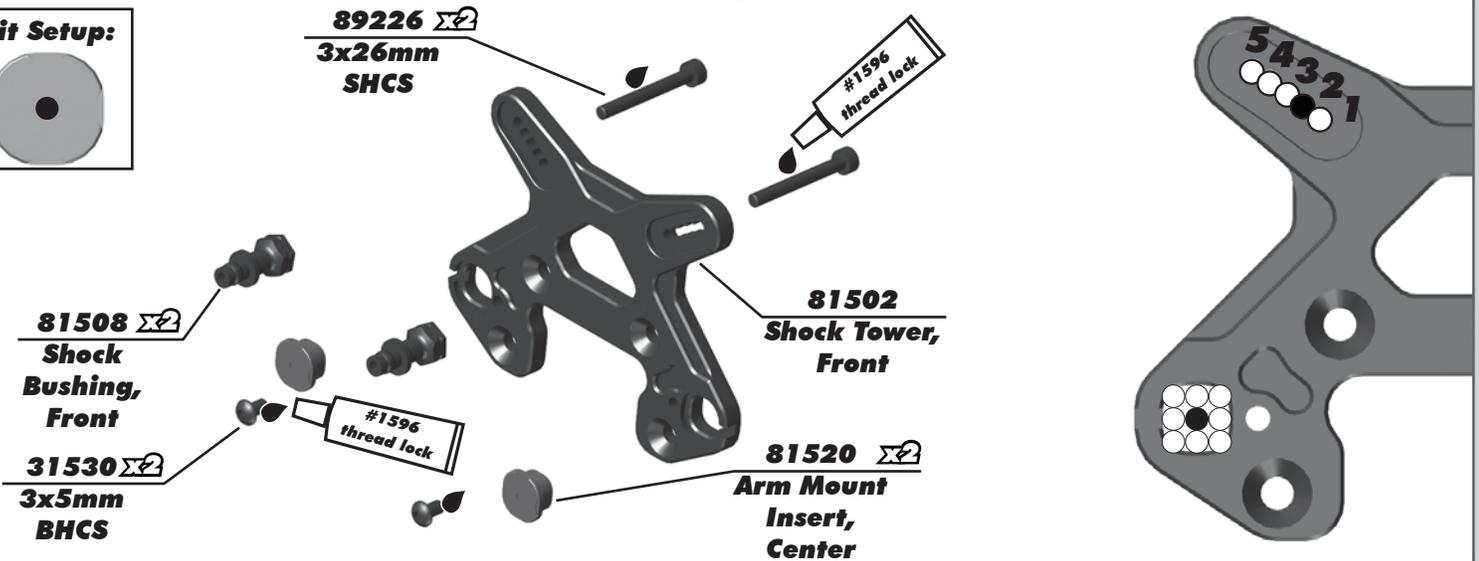
**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 7**

**Kit Setup:**



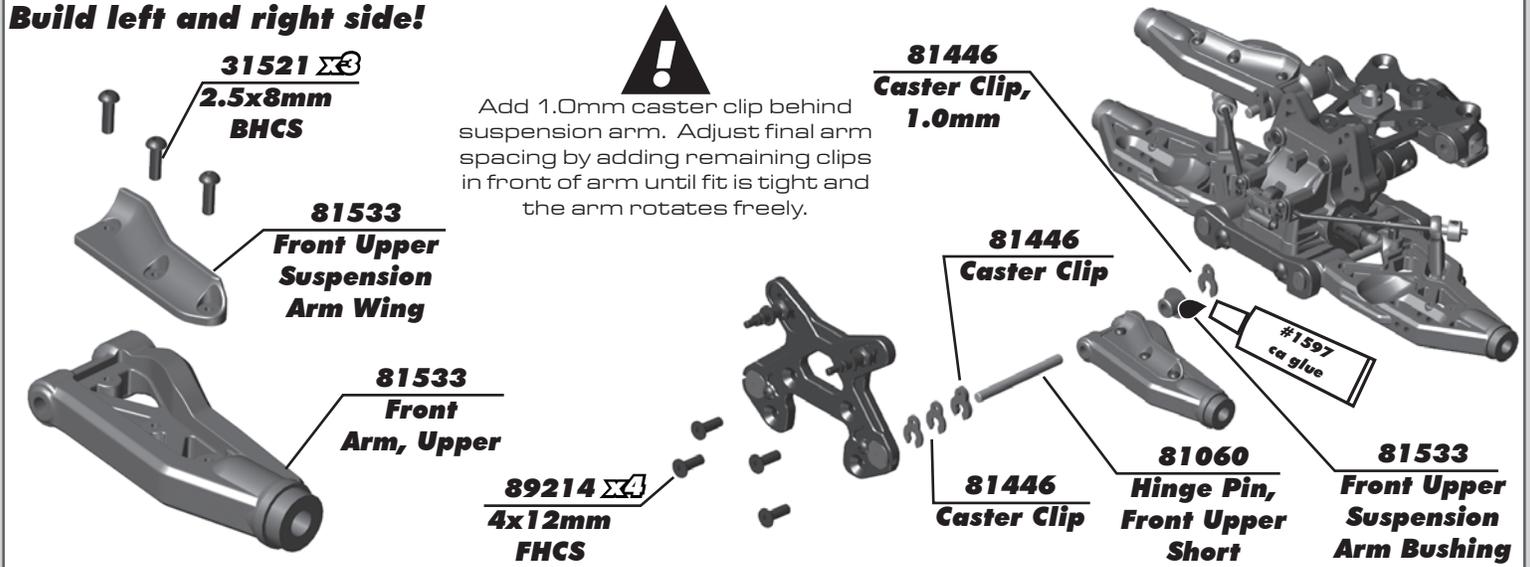
**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 8**

**Kit Setup:**



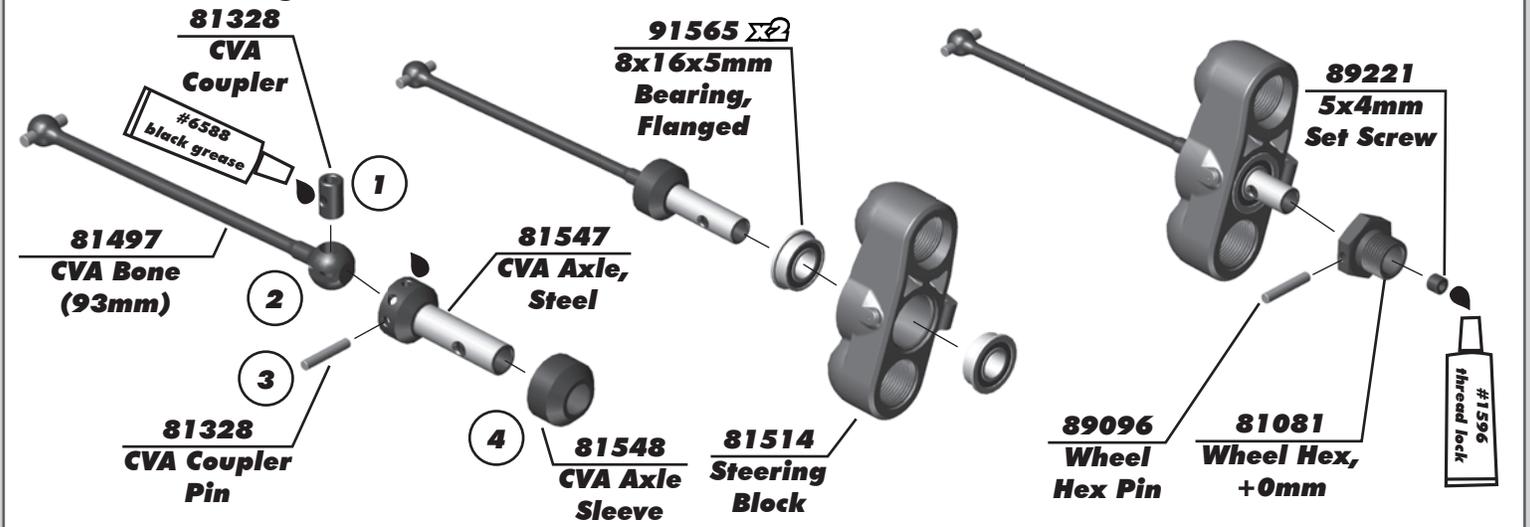
**:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 9**

**Build left and right side!**



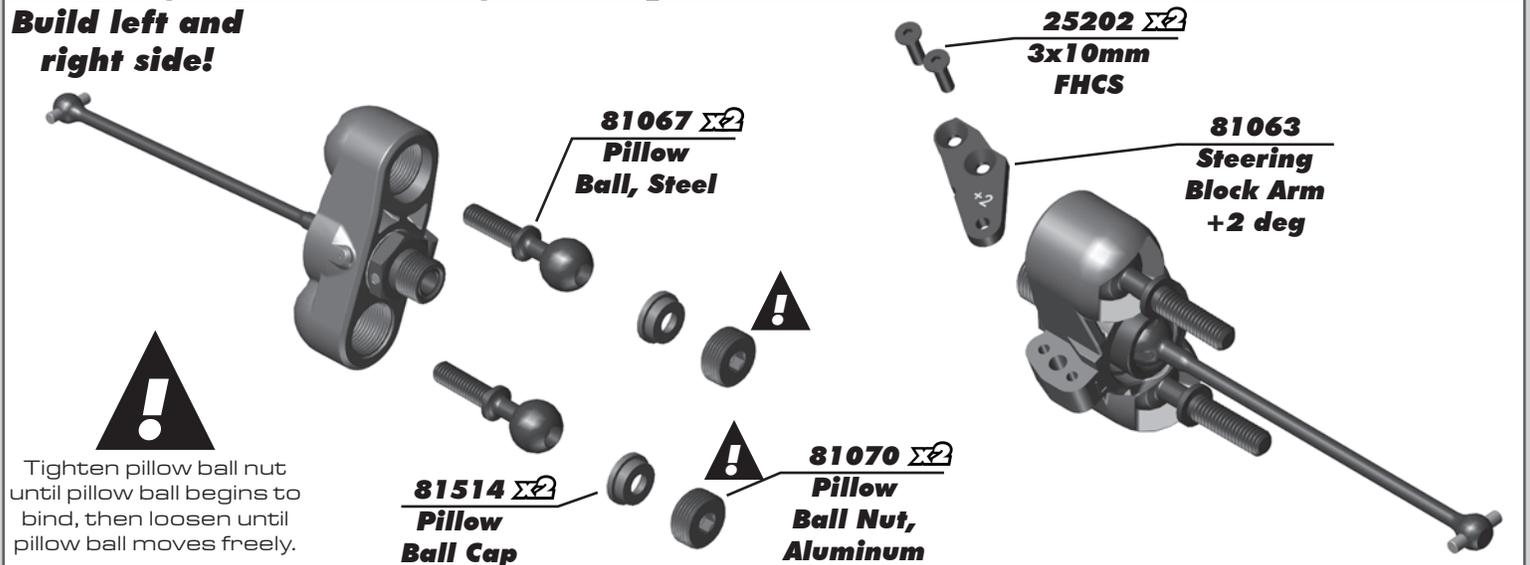
**:: Steering Blocks Build - Bag 6.1 - Step 1**

**Build left and right side!**

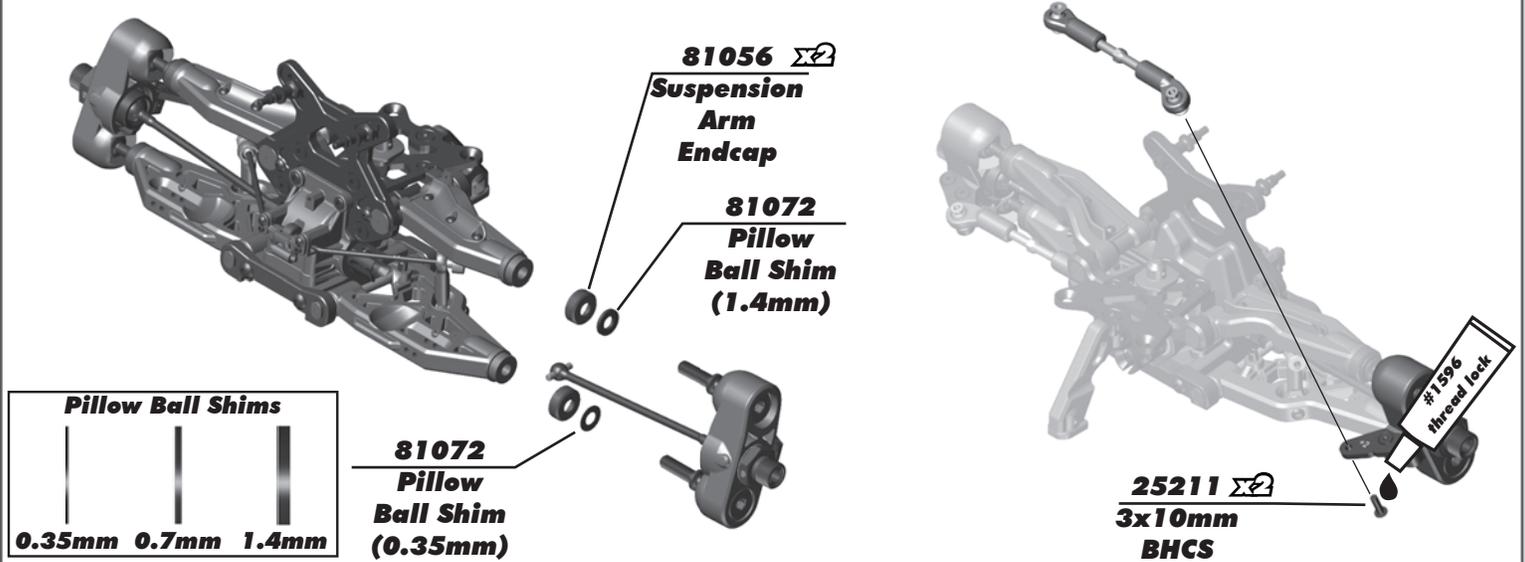


**:: Steering Blocks Build - Bag 6.1 - Step 2**

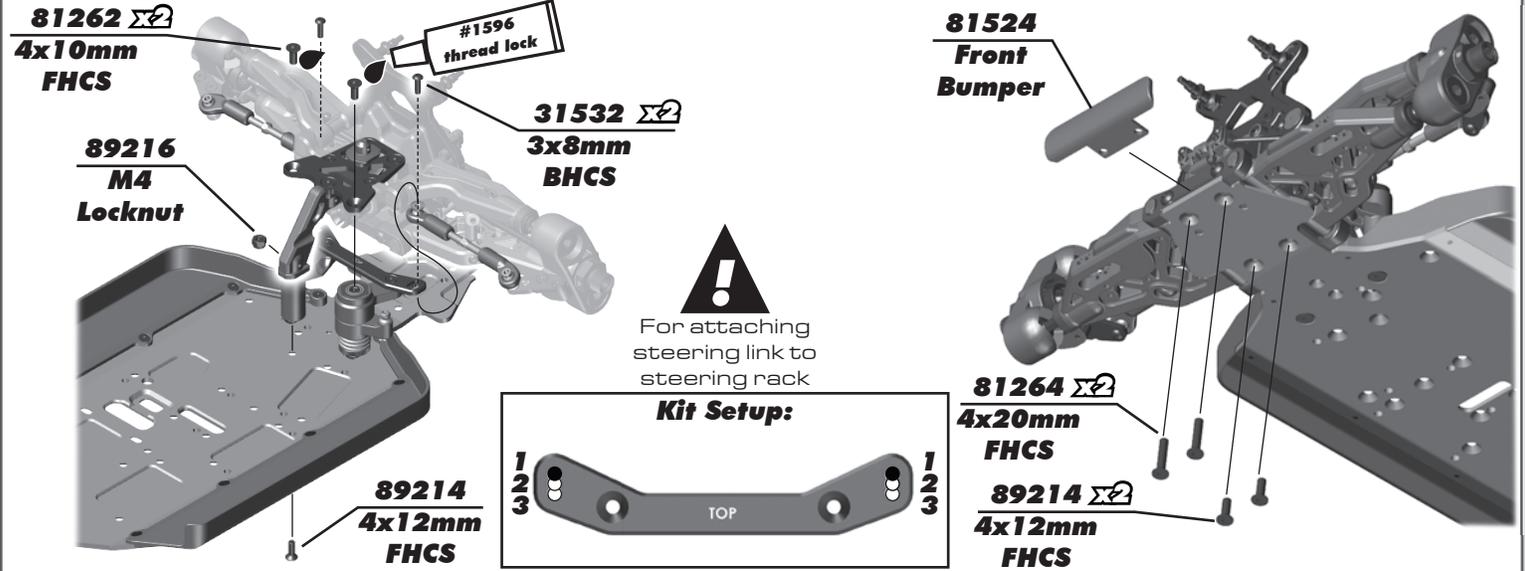
**Build left and right side!**



**:: Steering Blocks Build - Bag 6.1 - Step 3**

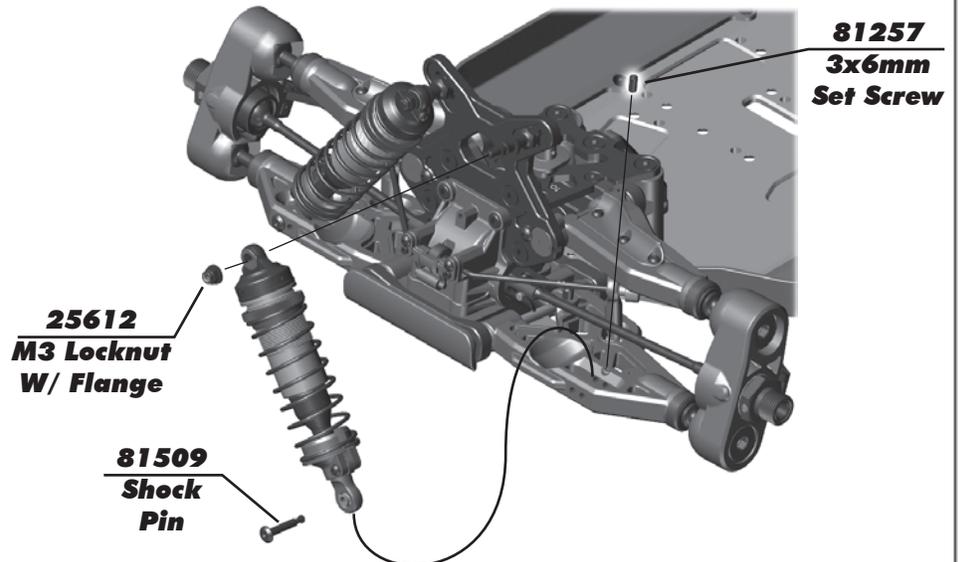


**:: Steering Blocks Build - Bag 6.1 - Step 4**



**:: Steering Blocks Build - Bag 6.1 - Step 5**

**Kit Setup:**  
Mount the front shock in the outside hole on the front arm.



**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 1**

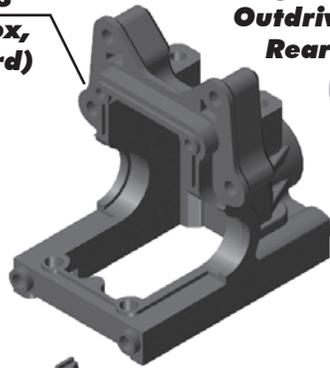


**Racer's Tip:**  
Use black grease (#6588) to lube the diff pinion before installation!

**81009**  
Diff Pinion Gear, 12T



**81543**  
Gearbox, (Inboard)



**81565**  
Dogbone Outdrive, Rear



#1596  
thread lock

**89221**  
5x4mm  
Set Screw

**91559**  $\Sigma 2$   
6x13x5mm  
Bearing



**81543**  
Dust Cap



**4675**  
2.5x6mm  
FHCS

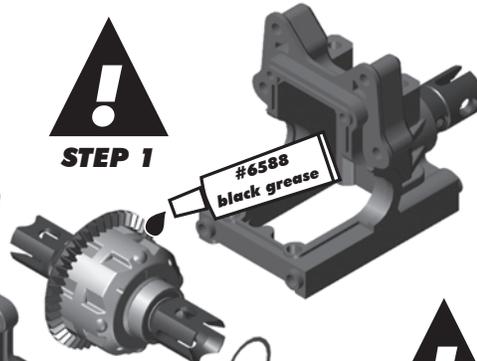
**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 2**

**81381**  
Diff Shim  
13.5x15.8x0.20mm



**STEP 1**

#6588  
black grease



**STEP 2**

**81543**  
Anti-Roll  
Bar Cap

**81543**  
Gearbox, (Outboard)

**25620**  $\Sigma 2$   
3x10mm  
SHCS

**Step 1:**  
Add shims on the ring gear side to TIGHTEN gear mesh. Subtract shims on this side to LOOSEN gear mesh.  
NOTE:  
Start 1x Thick 0.2mm

**Step 2:**  
Add or subtract shims here to finalize diff side to side play once gear mesh is set from Step 1. Recommended diff "side-to-side" clearance (gearbox assembly) 0.10 - 0.25mm. Start with 1 x 0.1 mm.

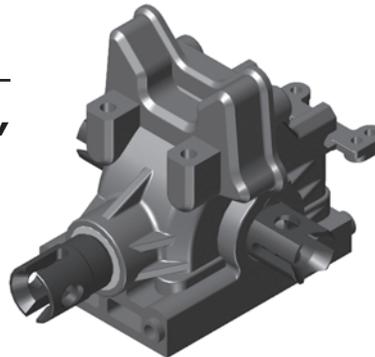
**Note:**  
0.1 mm shim can be used for fine tuning of gear mesh

**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 3**

**Kit Setup:**



**81454**  
Arm Mount, HRC, Narrow (C)



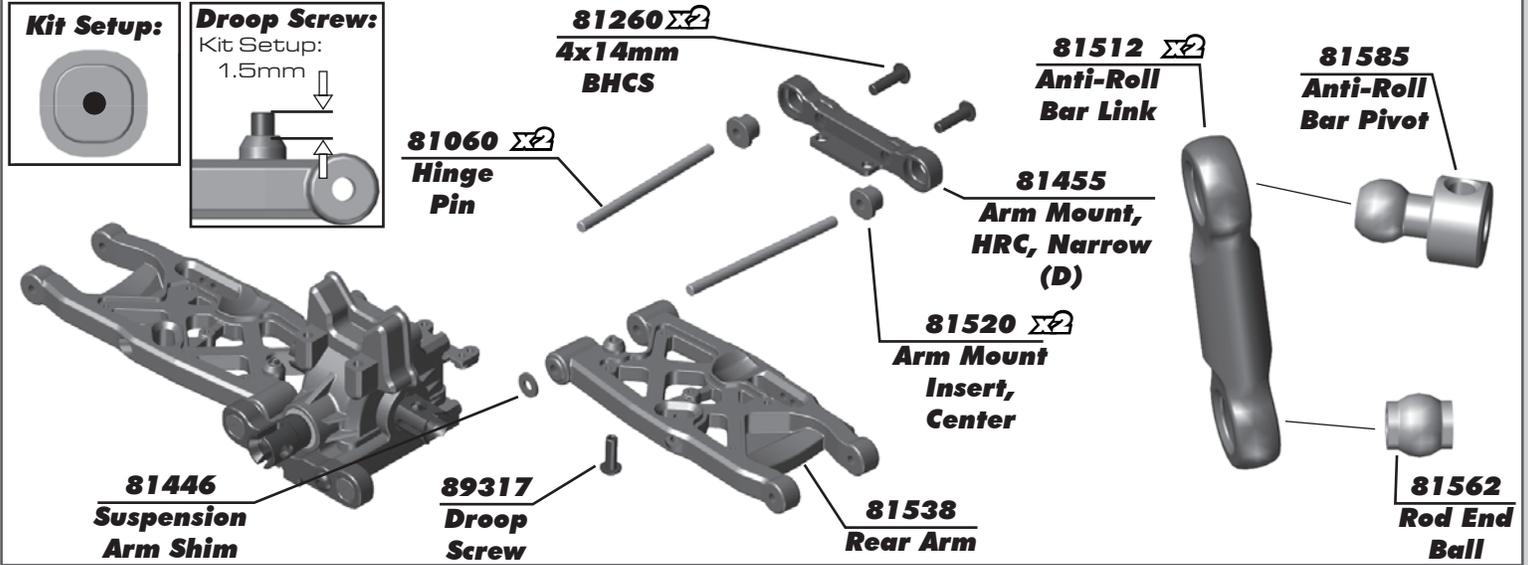
**81260**  $\Sigma 2$   
4x14mm  
BHCS



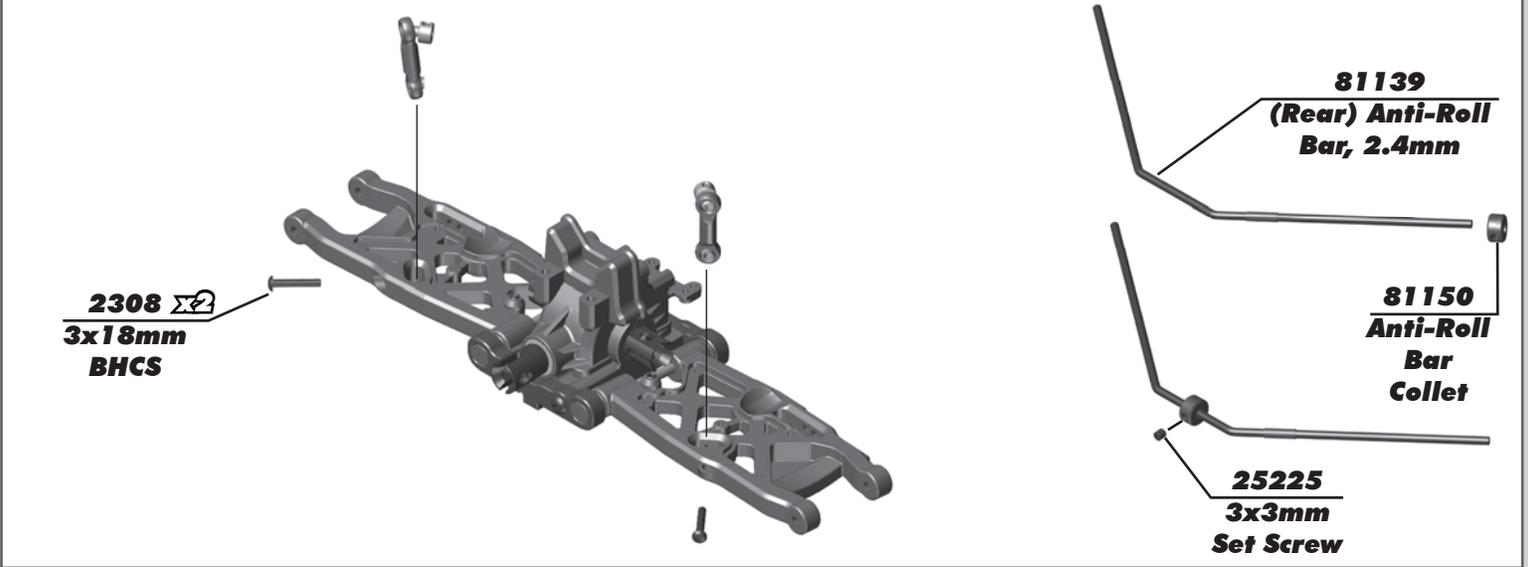
**81520**  $\Sigma 2$   
Arm Mount Insert, Center



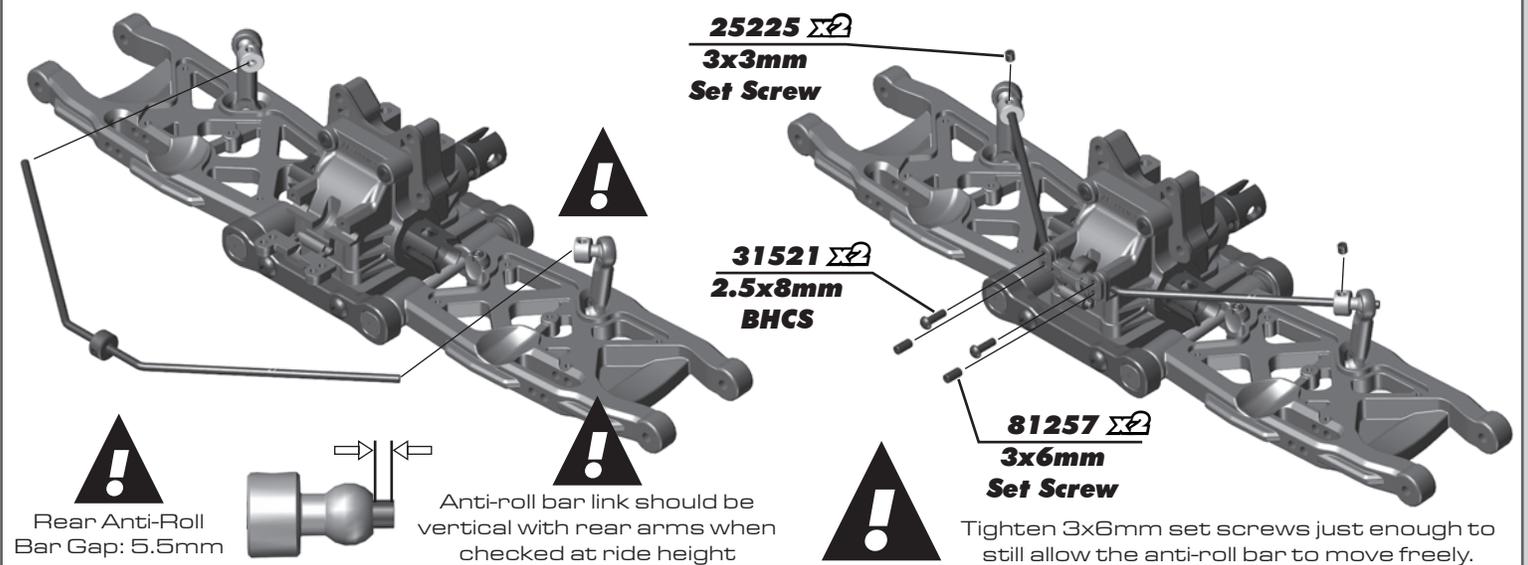
**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 4**



**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 5**



**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 6**



**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 7**

**Racer's Tip:**  
Tune the rear end for more flex with #81562 ball end insert here

**25189**  
3x22mm  
BHCS

**81525**  
Chassis  
Brace  
Mount

**81525**  
Chassis  
Brace  
Insert

**25612**  
M3  
Locknut  
W/Flange

**89214** x2  
4x12mm  
FHCS

**81525**  
Chassis  
Brace,  
Rear

**31532** x2  
3x8mm  
BHCS

**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 8**

**Kit Setup:**

**81508** x2  
Shock  
Bushing

**89208**  
3x14mm  
FHCS

**81553** x2  
Wing  
Buttons

**81553**  
Wing,  
Black

**81552** x2  
Wing Angle  
Shim, -2

**81552**  
Wing Mount

**25215** x2  
M3  
Locknut

**81524**  
Body Post,  
Rear

**81558**  
Body Post  
Grommet

**81524**  
Body Post  
Mount, Rear

**41090**  
3x10mm  
LP SHCS

**89227** x2  
3x28mm  
SHCS

#1596  
thread lock

**CHOOSE ONE**  
Fin adds straight-line  
stabilization.  
Button adds agility  
in corners.

**89208** x2  
3x14mm  
FHCS

**Warning Icon:** Refer to previous step (8) for wing height position

**:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 9**

**Warning Icon:** Refer to previous step (8) for wing height position

**81552** x2  
Wing  
Mount  
Adapter

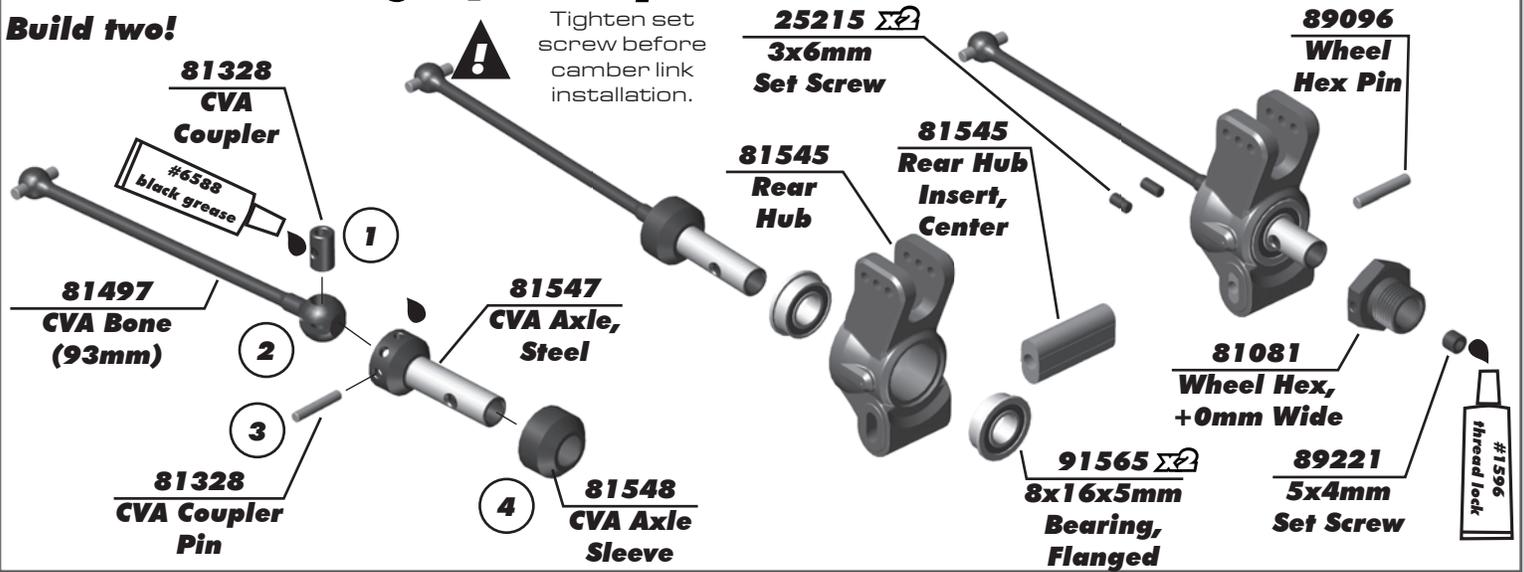
**25215** x4  
M3  
Locknut

**89454** x4  
3x12mm  
SHCS

**89214** x4  
4x12mm  
FHCS

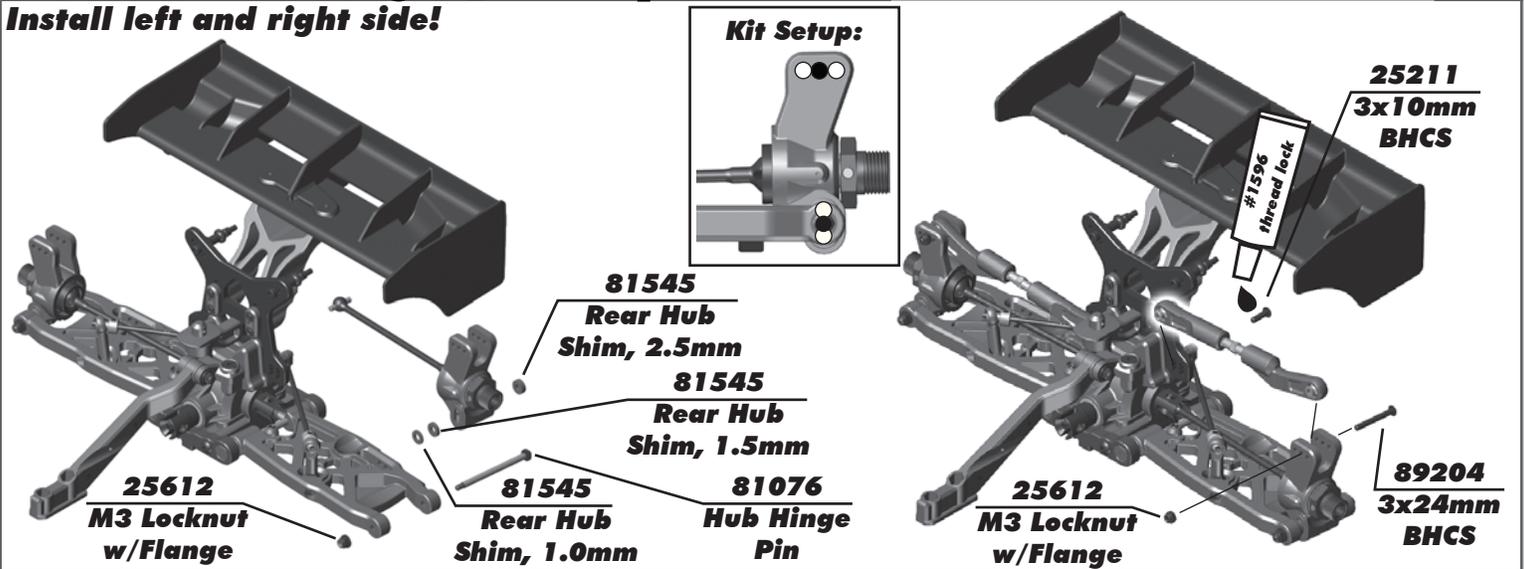
**:: Rear Hubs Build - Bag 8.1, 8.2 - Step 1**

**Build two!**



**:: Rear Hubs Build - Bag 8.1, 8.2 - Step 2**

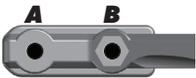
**Install left and right side!**



**:: Rear Hubs Build - Bag 8.1, 8.2 - Step 3**

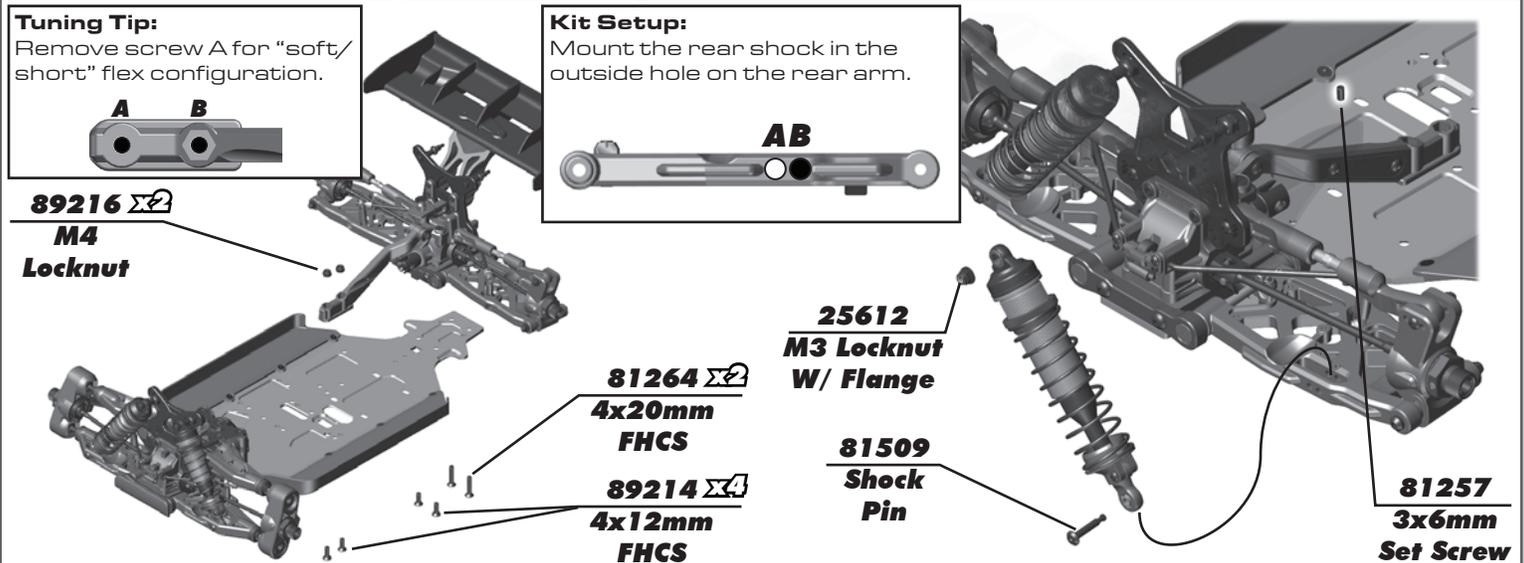
**Tuning Tip:**

Remove screw A for "soft/short" flex configuration.

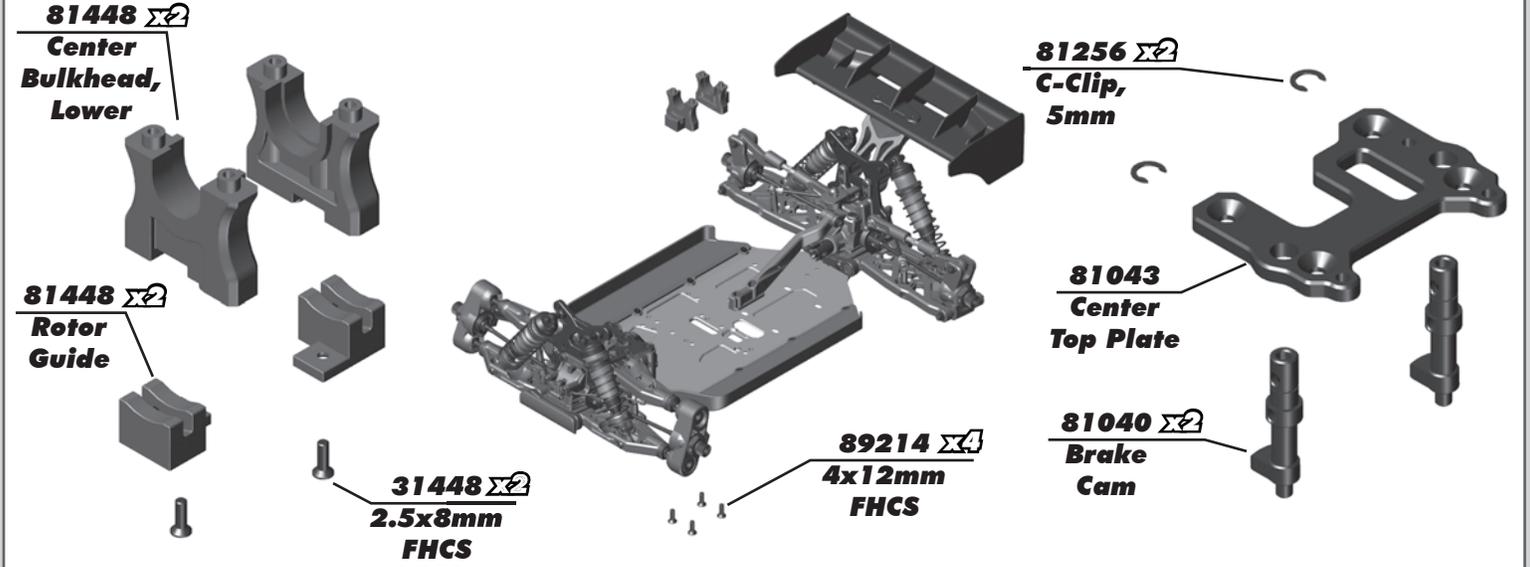


**Kit Setup:**

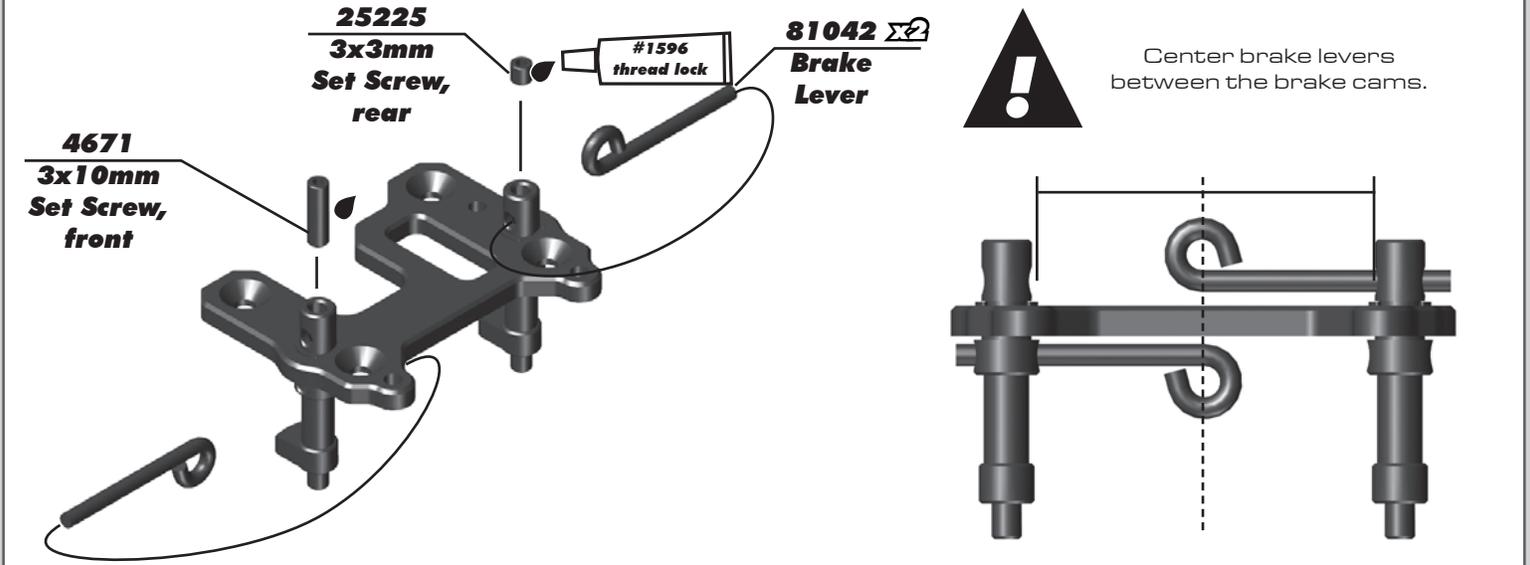
Mount the rear shock in the outside hole on the rear arm.



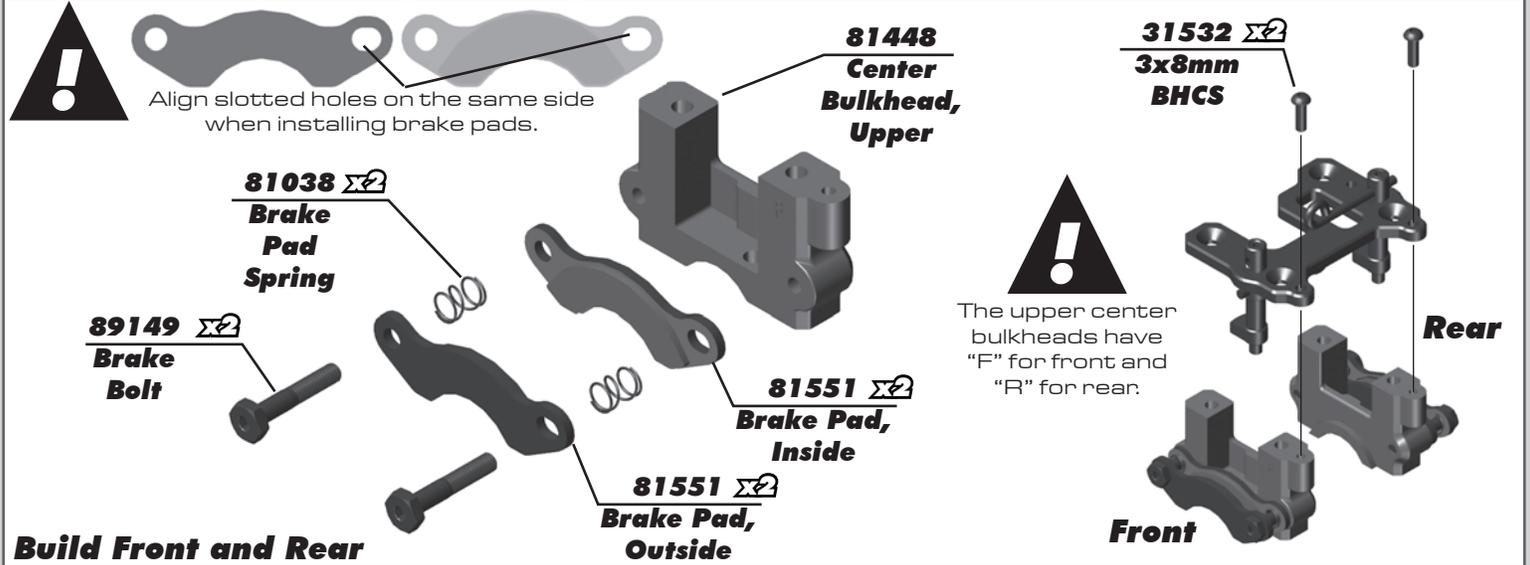
**:: Center Bulkhead - Bag 9.1 - Step 1**



**:: Center Bulkhead - Bag 9.1 - Step 2**

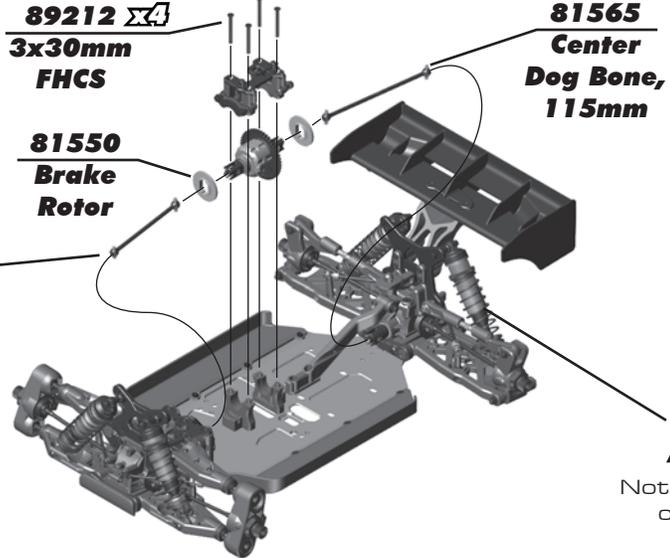
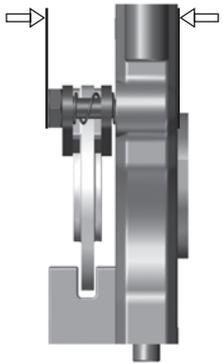


**:: Center Bulkhead - Bag 9.1 - Step 3**



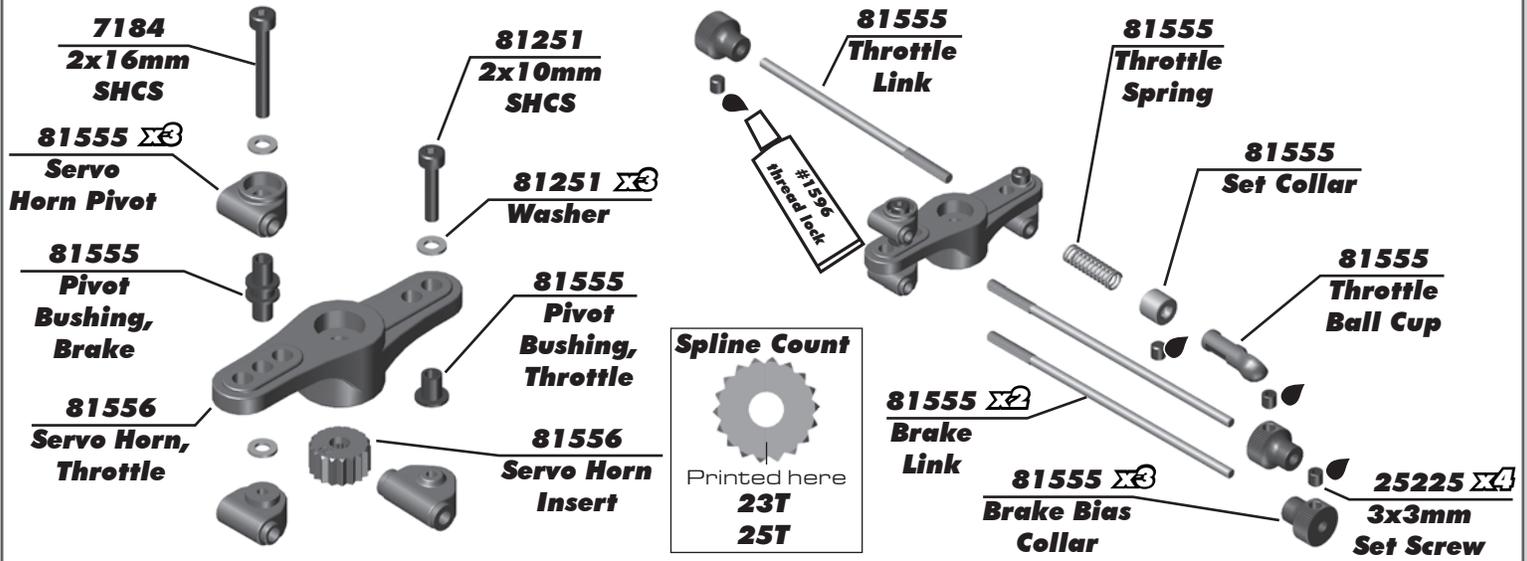
**:: Center Bulkhead - Bag 9.1 - Step 4**

18.40mm (0.72")



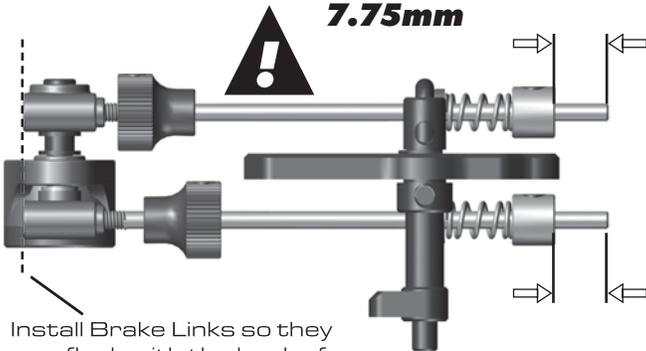
Note direction of center diff.

**:: Linkages Build - Bag 10.1 - Step 1**



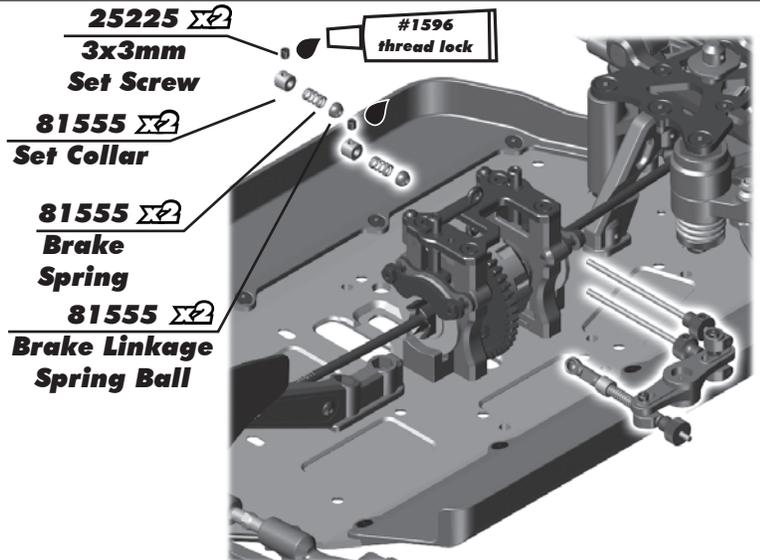
**:: Linkages Build - Bag 10.1 - Step 2**

**Recommended Starting Positions:**  
**Front Brake Gap**  
**7.75mm**



Install Brake Links so they are flush with the back of the servo horn pivots.

**Rear Brake Gap**  
**4.5mm**



**:: Linkages Build - Bag 10.1 - Step 3**

**Spline Count**



Printed here  
**23T**  
**25T**

**81556**  
**Servo Horn**  
**(Steering)**



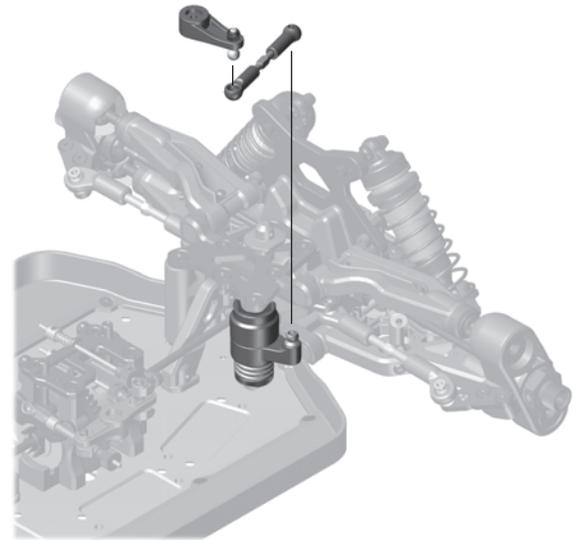
**81556**  
**Servo Horn**  
**Insert**



**25215**  
**M3**  
**Locknut**



**91048**  
**HD Ball**  
**Stud, 8mm**



**:: Radio Tray Build - Bag 11.1 - Step 1**

**Radio Tray Configuration:**

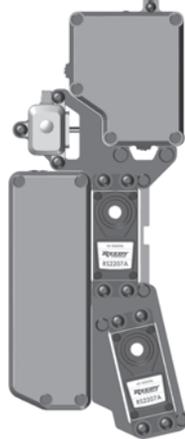
The radio tray on RCBB4 can be configured in four different ways. Each configuration changes the amount and location of flex in the chassis. Experiment with different configurations when running on different surfaces.

When removing either graphite radio tray brace or transponder mount, utilize included plastic shims to maintain proper servo height.



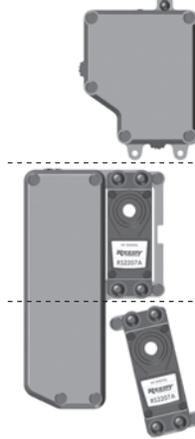
**81433**  
**Radio Tray**  
**Spacer**

**Option 1**



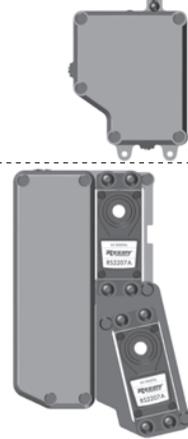
**Least Flex**  
**(Kit Setup)**

**Option 2**



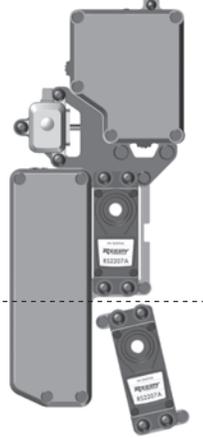
**Most Flex**

**Option 3**



**More Rearward**  
**Flex**

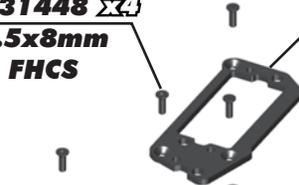
**Option 4**



**More Frontward**  
**Flex**

**:: Radio Tray Build - Bag 11.1 - Step 2**

**31448 x4**  
**2.5x8mm**  
**FHCS**



**81561**  
**Radio**  
**Tray Brace**



**41094 x4**  
**3x14mm**  
**LP SHCS**



Servo not included!

**41094 x4**  
**3x14mm**  
**LP SHCS**



Servo not included!

**25201 x2**  
**3x8mm**  
**FHCS**



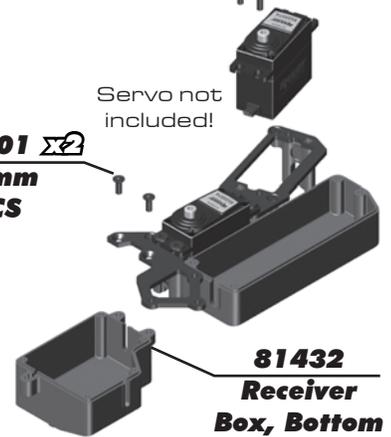
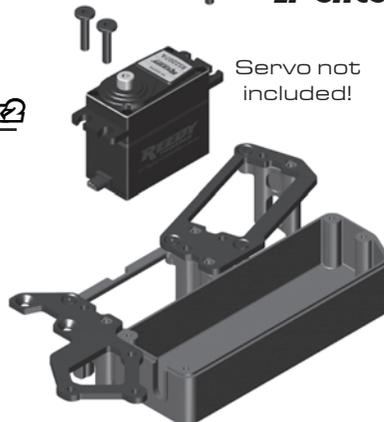
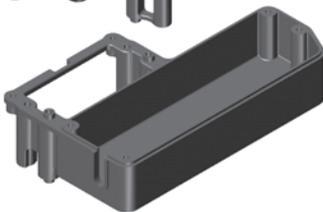
**81450**  
**Transponder**  
**Mount**



**81433 x2**  
**Radio**  
**Tray Post**



**81432**  
**Battery Box,**  
**Bottom**



**81432**  
**Receiver**  
**Box, Bottom**

**:: Radio Tray Build - Bag 11.1 - Step 3**

**42007**  $\Sigma 2$   
Receiver  
Box  
Grommet

**42007**  $\Sigma 2$   
Grommet  
Plug

Receiver Battery  
not included!

Receiver  
not included!

**6727**  
Servo  
Tape

**31448**  $\Sigma 9$   
2.5x8mm  
FHCS

**81432**  
Receiver  
Box, Top

**81432**  
Battery  
Box, Top

**:: Radio Tray Build - Bag 11.1 - Step 4**

**25225**  
3x3mm  
Set Screw

**25211**  $\Sigma 3$   
3x10mm  
BHCS

On/Off switch  
not included!

**6338**  
Antenna  
Tube and  
Cap

**25211**  $\Sigma 2$   
3x10mm  
FHCS

#1596  
thread lock

Transponder  
not included!

**25215**  $\Sigma 3$   
M3 Locknut

**Racer's Tip:**  
Center servos  
before horn  
installation!

**!**  
The switch and  
transponder  
positions can be  
reversed if desired

**89214**  $\Sigma 6$   
4x12mm  
FHCS

**:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 1**

Engine  
not included!

**81372**  
Flywheel  
Nut

**81371**  
Flywheel  
Collet

**!**  
See next step for  
clutch shoe/spring  
installation order!

**Racer's Tip:**  
No thread lock  
on the flywheel  
nut.

**81370**  
Flywheel,  
4-Shoe

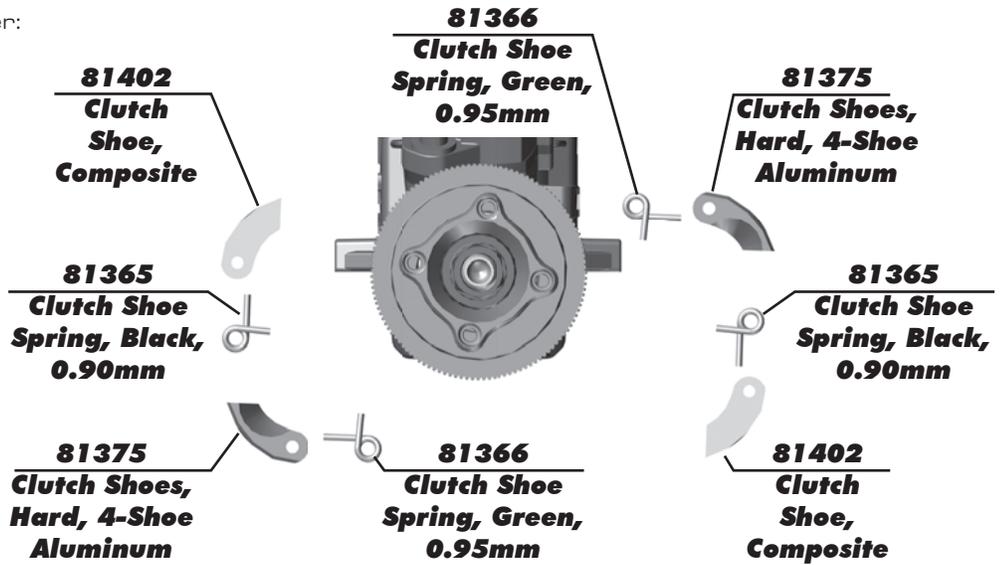
**81373**  $\Sigma 4$   
Clutch  
Shoe Pins

**:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 2**

Clutch Shoe / Spring Installation Order:



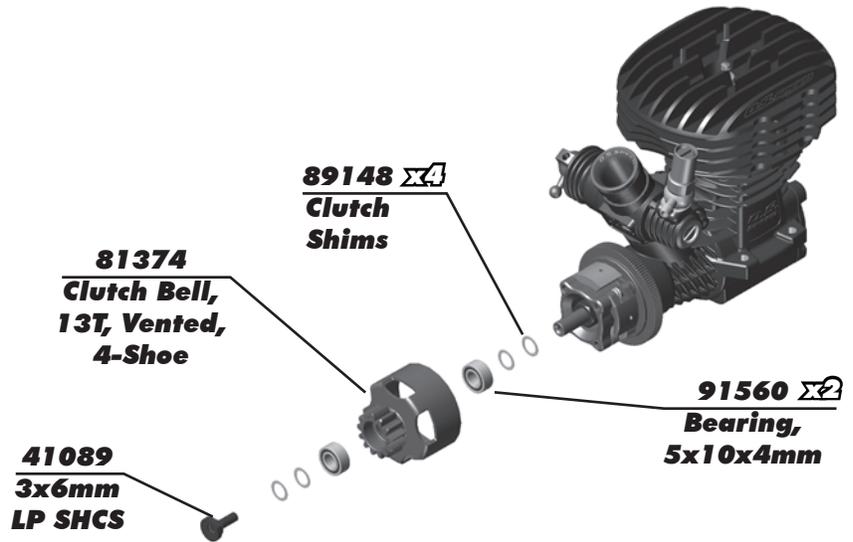
Short end of clutch shoe spring installed into flywheel.  
Long end of clutch shoe spring installed into clutch shoe.



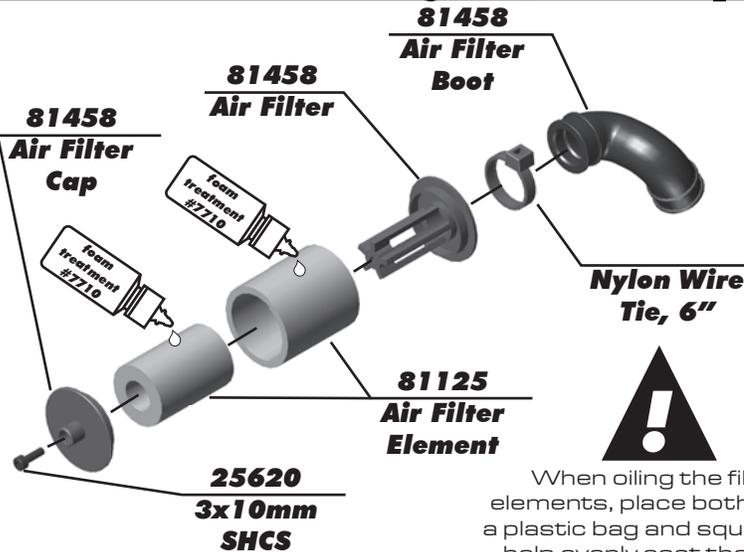
**:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 3**

Clutch shimming instructions:

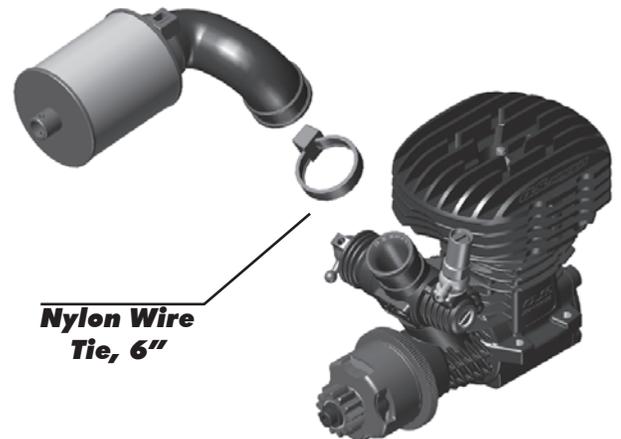
- Build assembly with shims as shown
- If clutch bell does not spin freely:  
Move shim from behind clutch bell to in front of clutch bell
- OR-
- Remove one shim from front of clutch bell
- Recommended axial play in clutch bell = 0.2mm - 0.5mm



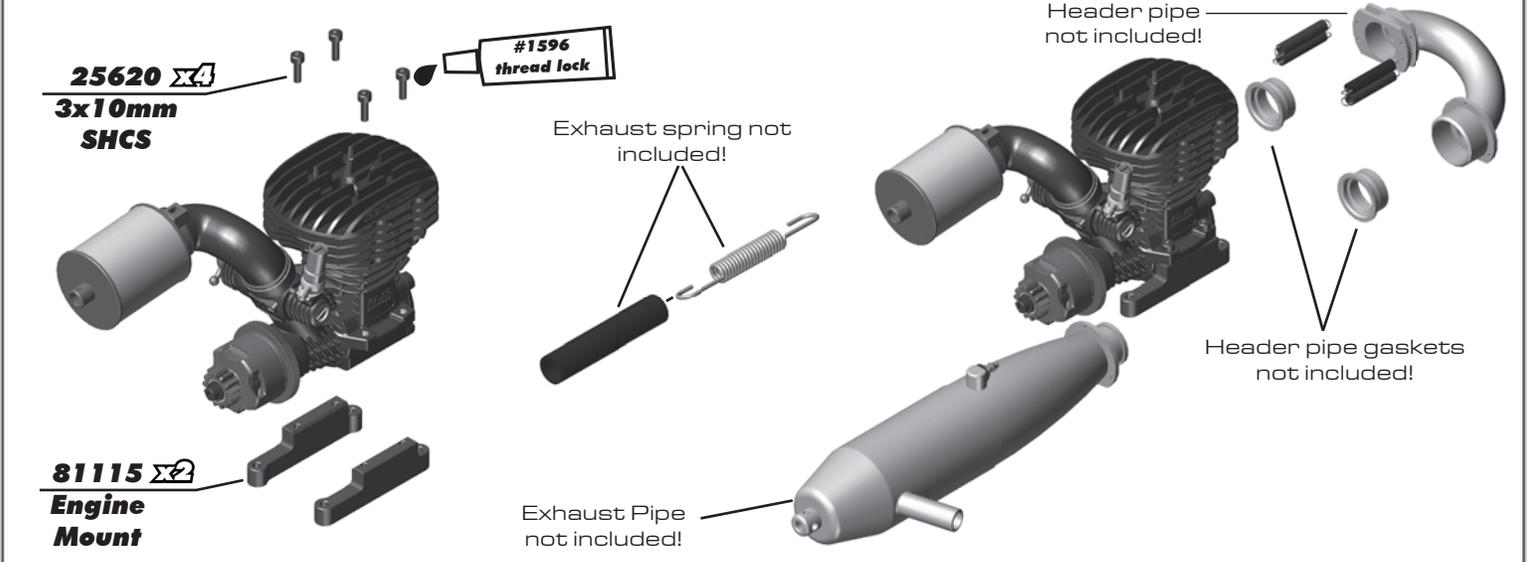
**:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 4**



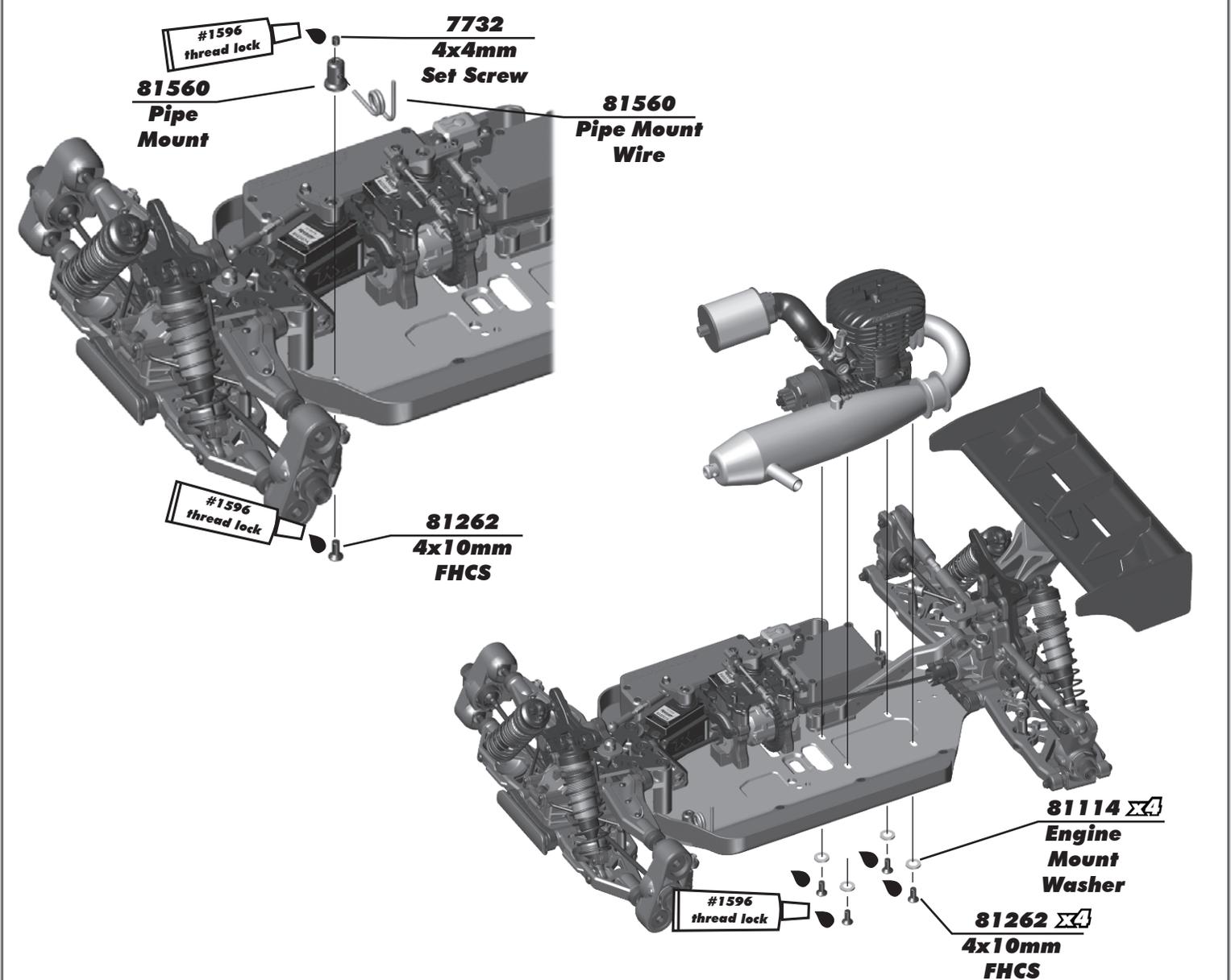
When oiling the filter elements, place both inside a plastic bag and squeeze to help evenly coat the filter.



**:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 5**



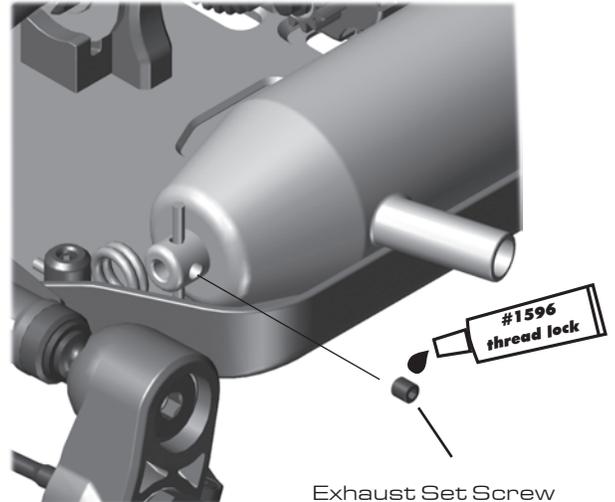
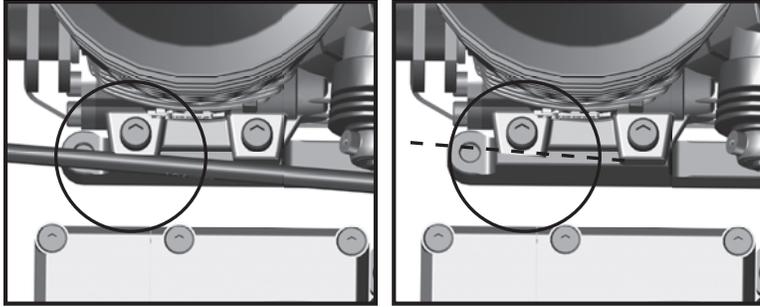
**:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 6**



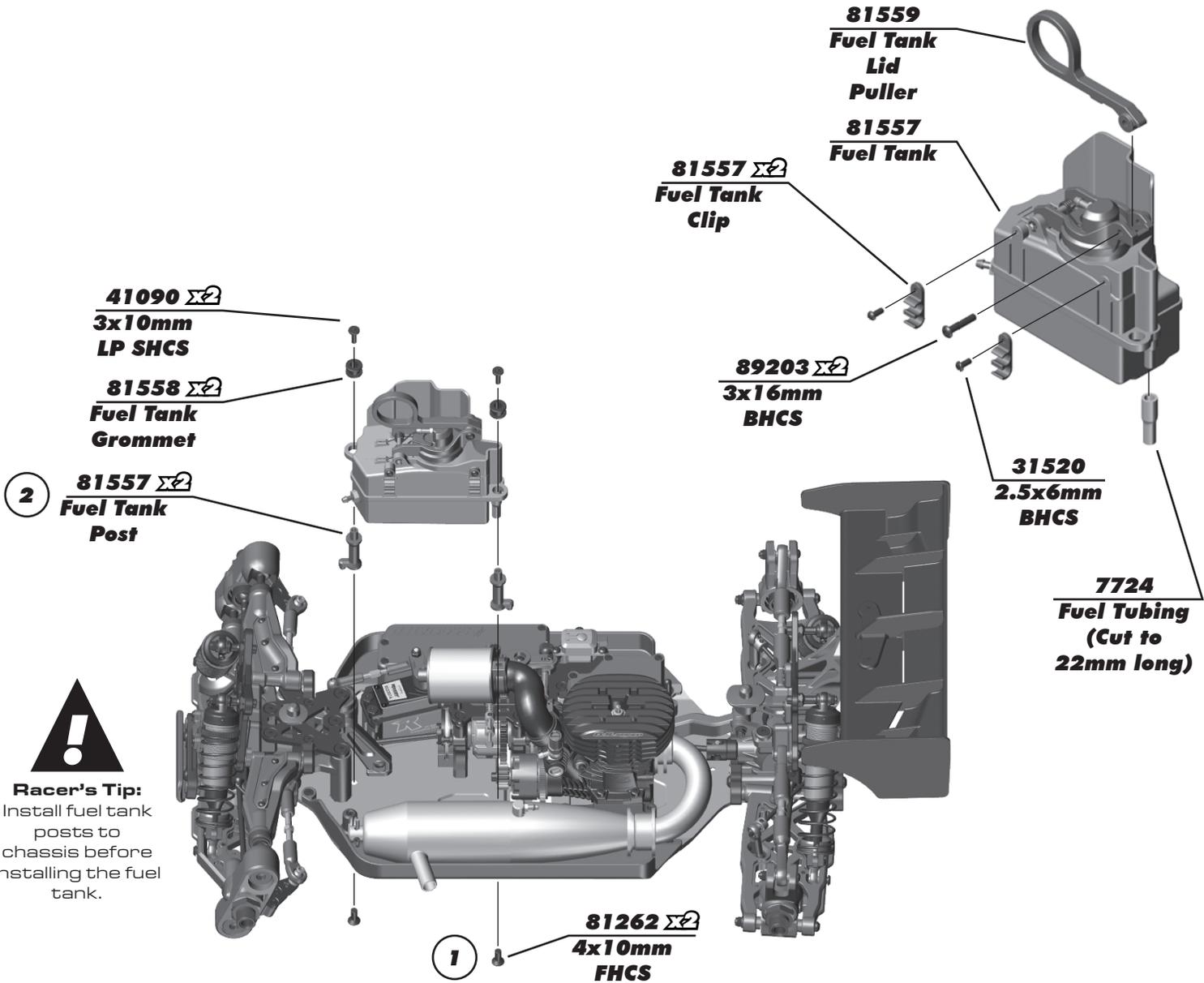
**:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 7**



When installing your engine, make sure the rear drive shaft does not interfere with the engine block. You may need to remove material from the engine block for fitment.



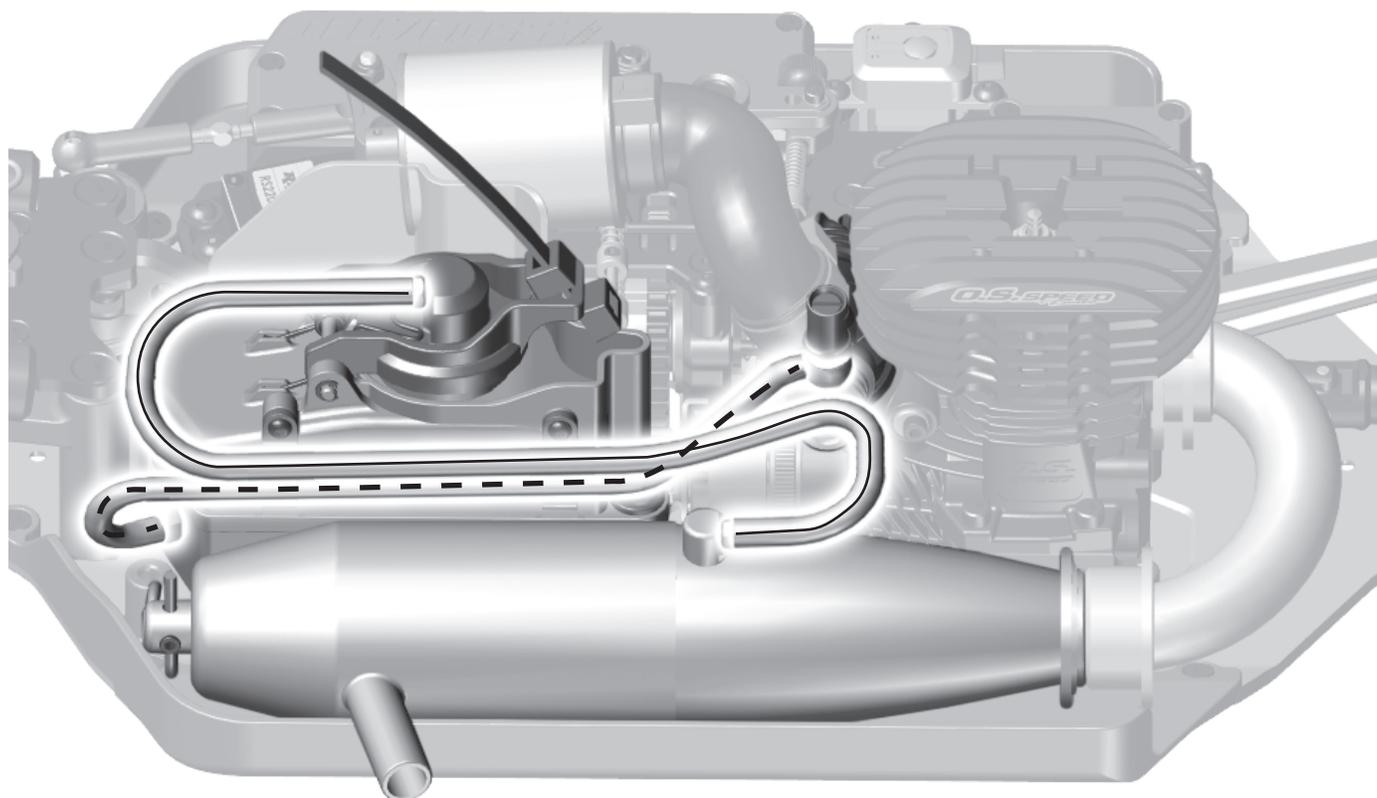
**:: Fuel Tank Build - Bag 13.1, 13.2 - Step 1**



**:: Fuel Tank Build - Bag 13.1, 13.2 - Step 2**

**Pressure line from fuel tank lid to exhaust pipe**

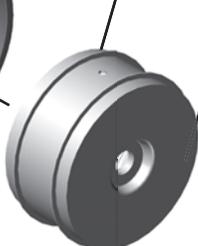
**Fuel line from fuel tank to carburetor**



**:: Wheels / Tires / Body - Misc. - Step 1**

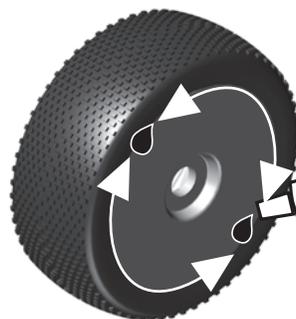


Wheels, Tires, and Foam Inserts Not Included!



**89296**  
**RC8 Wheels,**  
**white, 83mm**

**89297**  
**RC8 Wheels,**  
**yellow, 83mm**



[not included]

**#1597**  
**CA tire glue**



**Build four wheels/tires**

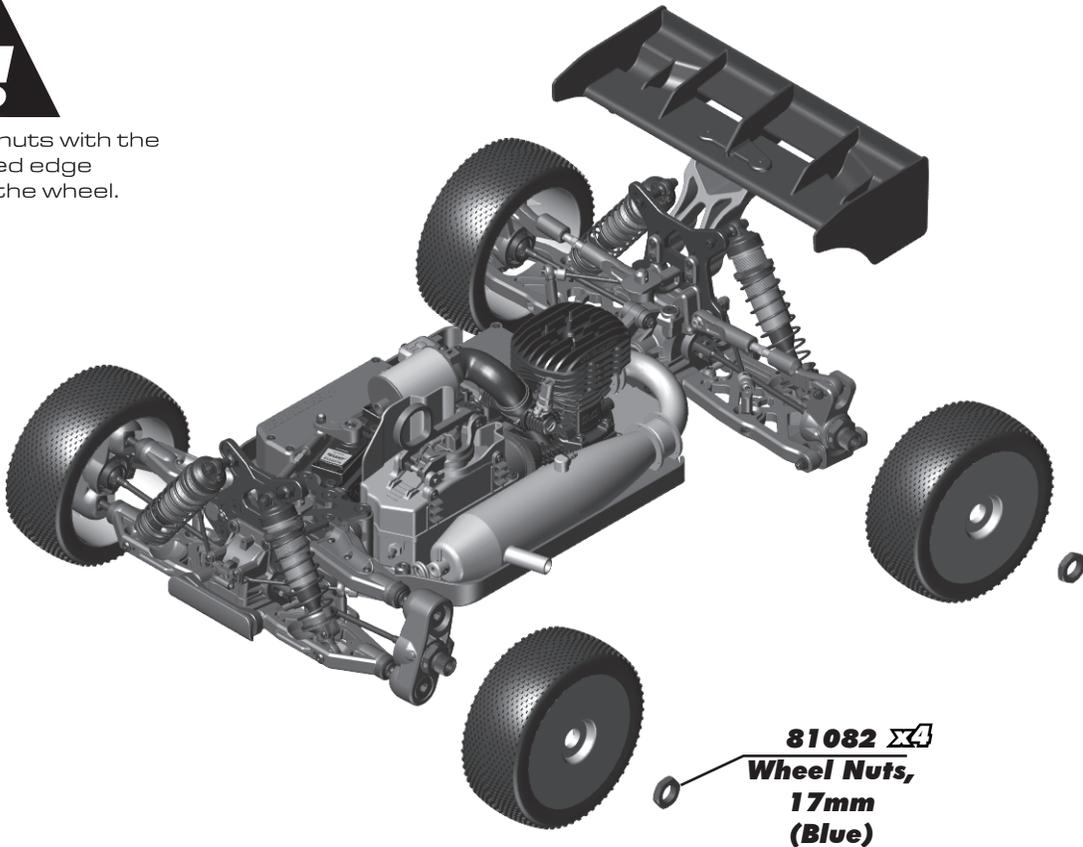
**Tires:**

When gluing tires to wheels, use a fast-curing tire glue (CA) [AE # 1597]. This is available at your local hobby shop. Make sure to clean the mounting surface of the tire and wheel with alcohol for best adhesion.

## :: Wheels / Tires / Body - Misc. - Step 2

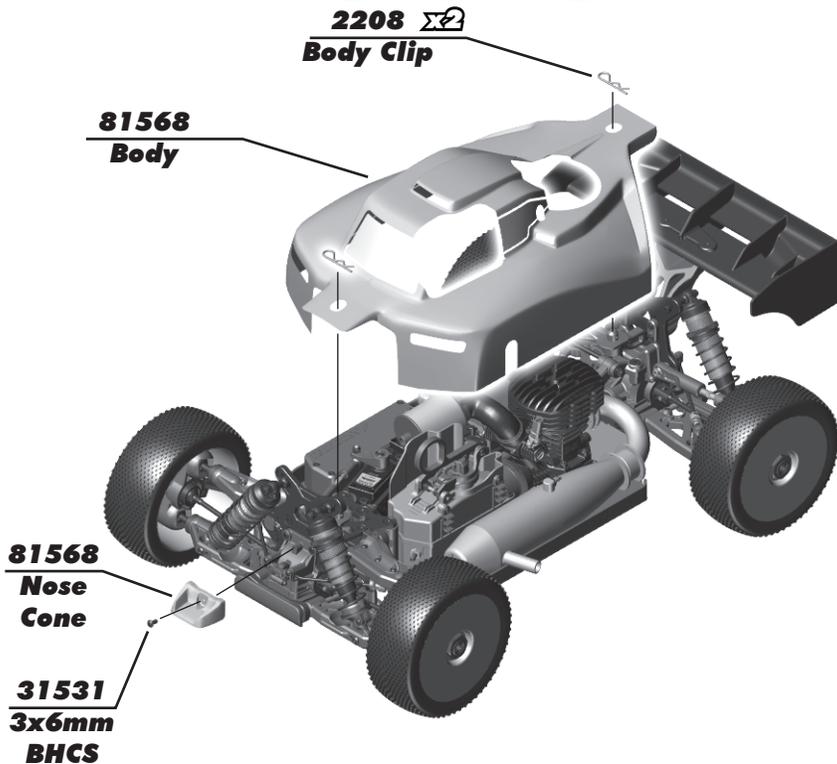


Install wheel nuts with the serrated edge towards the wheel.



**81082**   
**Wheel Nuts,**  
**17mm**  
**(Blue)**

## :: Wheels / Tires / Body - Misc. - Step 3



**2208**   
**Body Clip**

**81568**  
**Body**

**81568**  
**Nose**  
**Cone**

**31531**  
**3x6mm**  
**BHCS**

### **Painting Tips:**

Your kit comes with a clear polycarbonate body. You will need to prep the body before you can paint it. Wash the inside thoroughly with warm water and liquid detergent. Dry the body using a clean, soft, lint-free cloth. Install the window masks on the inside of the body. (RC cars get painted on the inside). Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (either rattle can or airbrush RC specific paint) the paint to the inside of the body (preferably dark colors first, lighter colors last).

**NOTE:** use ONLY paint that is recommended for use with (polycarbonate) plastics. If you do not, you can destroy the polycarbonate body!

After painting, cut the body along the trim lines. Make sure to drill or use a body reamer to make the holes for the body mounts and antenna!

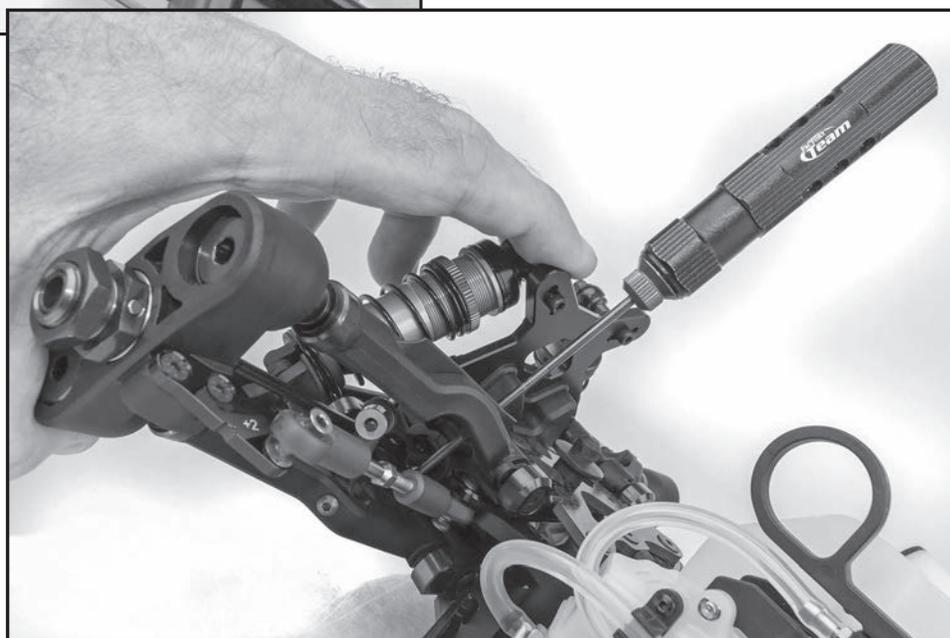
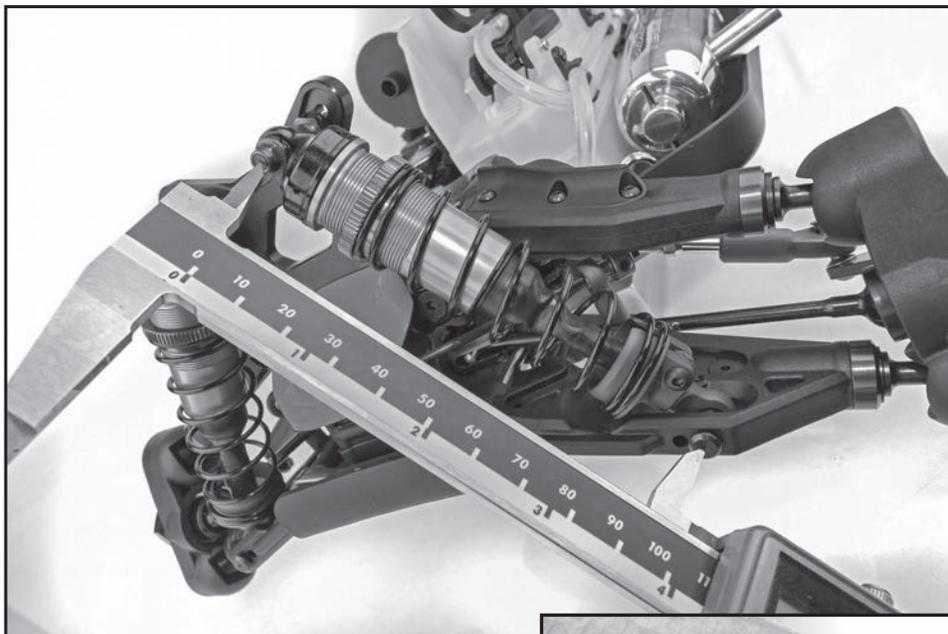
## :: Droop Settings

Set droop by measuring overall length of shock (from standoff to shock pin) while the chassis is elevated above your working surface. The shocks should be fully extended.

Kit setup for front droop is 105mm shock length, and 126mm shock length for the rear.

If the shock length is too long, adjust by turning the droop screws clockwise.

If the shock length is too short, adjust by turning the droop screws counter-clockwise.



**Front Droop:** Increasing front droop (loosen droop screws) will increase off-throttle steering. It also allows the front end to lift more, giving more rear grip and less front grip on-power. Remember to never loosen the screws beyond the FULL DROOP setting. Decreasing front droop (tighten droop screws) yields more on-power steering and quicker response at the expense of some stability in bumpy sections. It will also give less off-throttle steering.

**Rear Droop:** Increasing rear droop (loosen droop screws) will increase traction in bumpy sections, but will reduce high-speed stability. Remember to never loosen the screws beyond the FULL DROOP setting. Decreasing rear droop (tighten droop screws) will increase stability in high speed sections, but will reduce stability in bumpy sections.

### Setup Sheets:

To find different setups for your kit, visit our website, <https://www.associatedelectrics.com/teamassociated/> and click on the "Setup Sheets" link, and then the link to your model. Our team of professional drivers help develop these setups at races worldwide. Additionally, most drivers have a "base" setup that they use as a starting point for most races. Try running some of our base setups or look for track conditions and tires that are similar to your local track and replicate that setup. Remember, each adjustment has a purpose, so copy everything from the setup sheet and then make adjustments based on the recommendations in here.

## CARS & TRUCKS



### Vehicle Spare Parts GO TO:

[AssociatedElectrics.com](http://AssociatedElectrics.com) →  
Team Associated tab →  
Cars & Trucks →  
Scroll to your vehicle →  
Parts & Accessories link

## SETUP SHEETS & MANUALS



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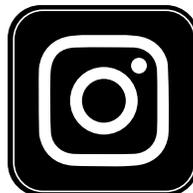
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