

RC Buggy  
**B4.2**  
TEAM KIT

RC Buggy  
**B4.2**  
EURO KIT

**TEAM ASSOCIATED**

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

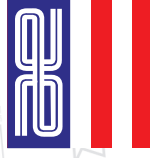
#80954 RC10B4.2 Team Kit and #80956 RC10B4.2 EURO Team Kit



**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

- New molded height-adjustable gearboxes front and rear
- New offset hubs and updated rear suspension arms to accommodate new hub geometry
- New -4mm chassis in FWB configuration
- (Euro Spec) New V2 FWB chassis
- New high-volume center differential
- New long chassis brace options
- New high-downforce wing
- Now includes FT hard-anodized aluminum shock bushings
- Updated brake pad material and brake spring
- Soft blend material suspension arms
- 8-degree KPI steering blocks included
- 44/13 ring and pinion gear sets
- 92mm universal driveshafts with 17mm outdrives
- 19mm diameter HTC internal differential gear set
- (Euro Spec) 20mm diameter HTC internal differential gear set
- Optimized setup for tracks with loose dirt and large bumps
- (Euro Spec) Optimized setup for high-speed and high-grip tracks

## :: Additional

Your new RC8B4.2 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) | • Throttle and Steering servos      |
| • 2 or 3 channel radio/transmitter set with switch (2.4GHz recommended)         | • Transmitter batteries             |
| • Model car fuel (20-30% nitro recommended)                                     | • Starter box - (#1751)             |
| • .21 class rear exhaust engine                                                 | • Exhaust system                    |
| • 1:8 scale buggy wheels / tires                                                | • Fuel bottle - (#1747)             |
| • Polycarbonate-specific paint                                                  | • Reamer / hole punch               |
| • CA (cyanoacrylic) glue - (#1597)                                              | • Thread-locking compound - (#1596) |
|                                                                                 | • Glow igniter - (#27377)           |
|                                                                                 | • Needle-nose pliers                |
|                                                                                 | • Ride height gauge                 |
|                                                                                 | • Hobby knife                       |

## :: Other Helpful Items

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

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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>  |

### 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> |

### 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>   |

### 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> |

### 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>6x12x4mm (91561)</b>         |
|  | <b>8x16x5mm (91564)</b>         |
|  | <b>8x16x5mm flanged (91565)</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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| 14 - 15.....Steering Blocks Build<br>(Bags 6.1, 6.2)    | 30.....Back Cover                                      |

## :: 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.***



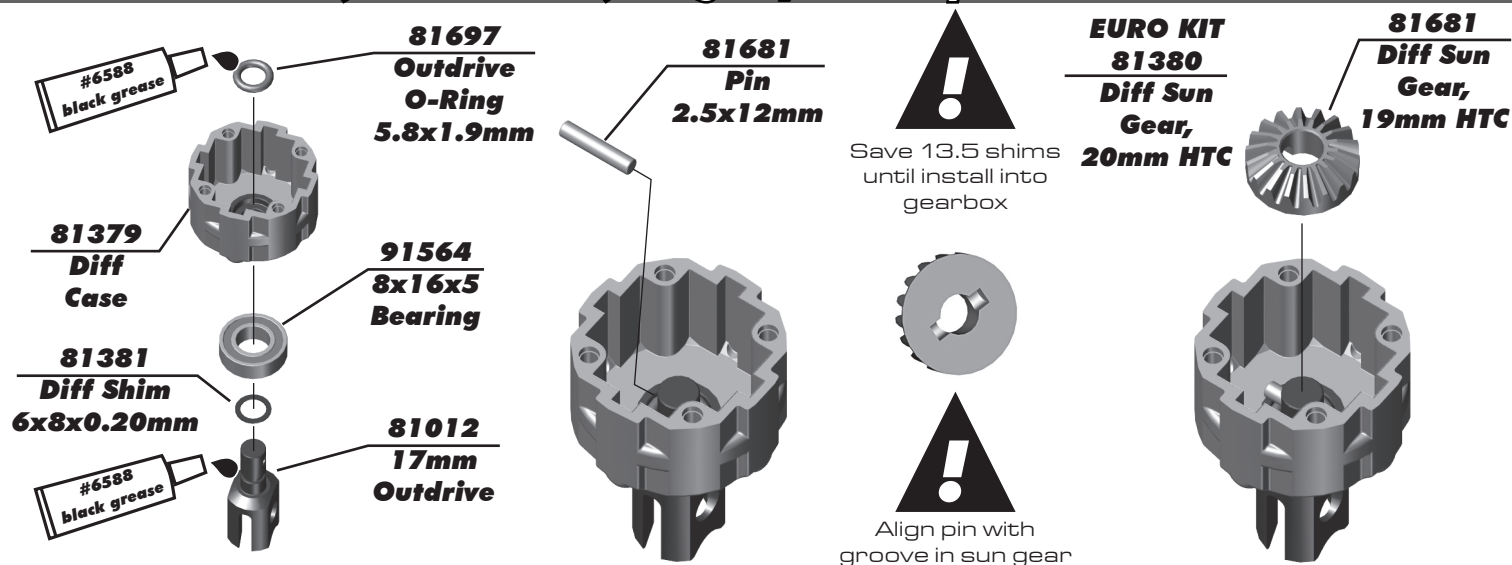
***There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.***

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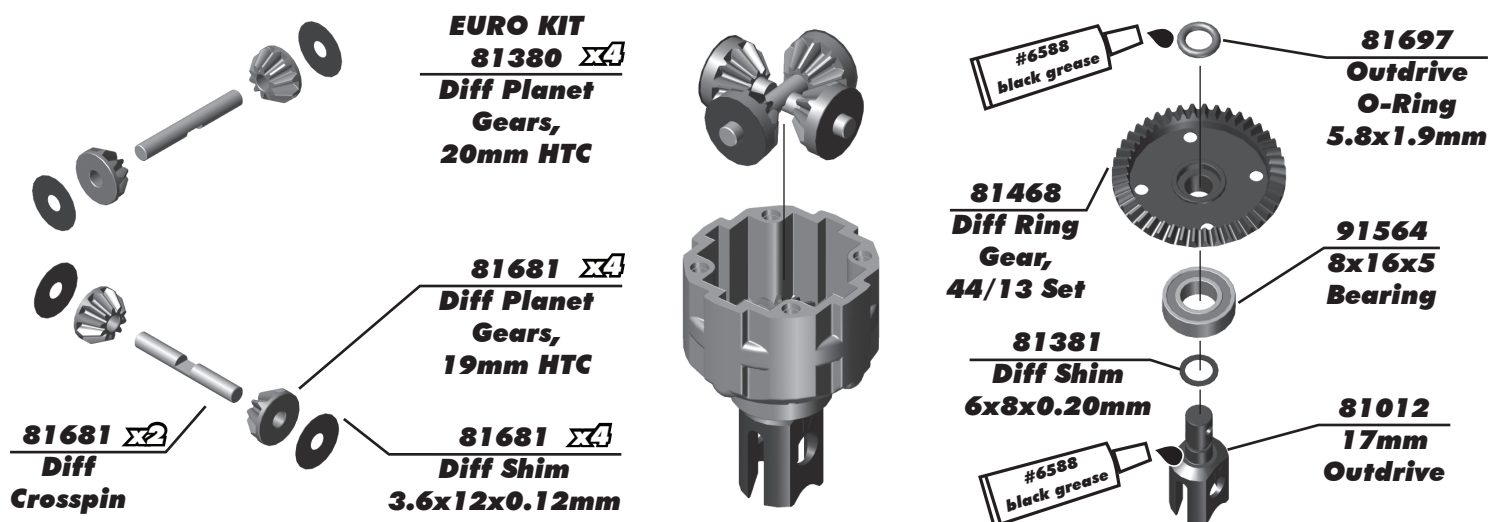


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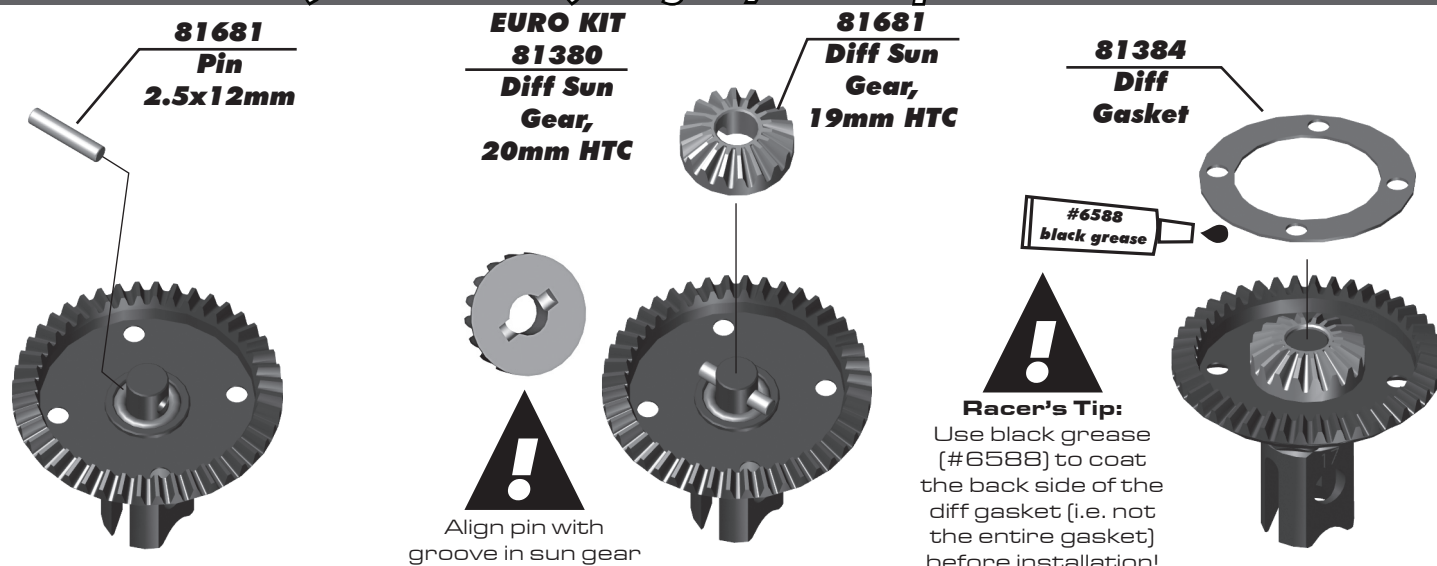
## :: Differential Build (Front and Rear) - Bag 1.1, 1.2 - Step 1



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



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

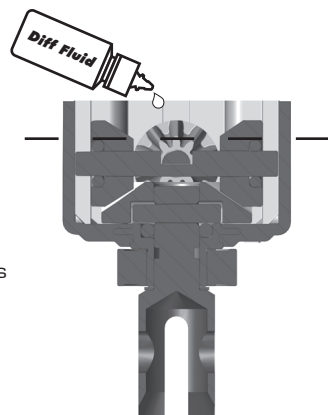


## :: Differential Build (Front and Rear) - Bag 1.1, 1.2 - Step 4

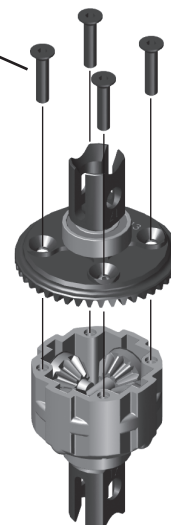


### Racer's Tip:

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



**25202 X4**  
**M3x10mm**  
**FHCS**



### Front Diff Fluid:

**Team Kit - 10,000cst #5455**

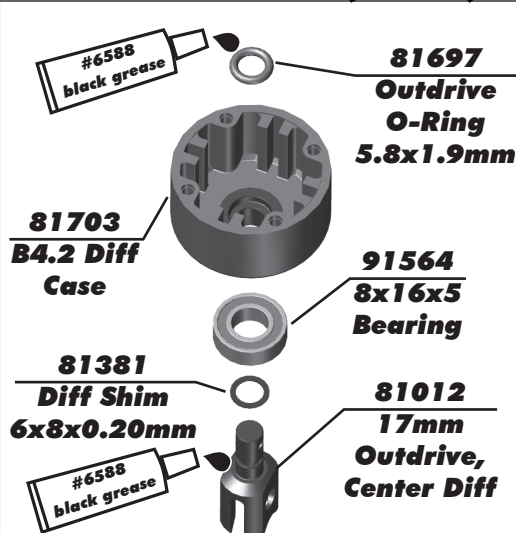
**Euro Kit - 60,000cst #5458**

### Rear Diff Fluid:

**Team Kit - 5,000cst #5453**

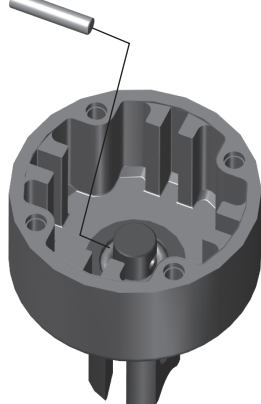
**Euro Kit - 10,000cst #5455**

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



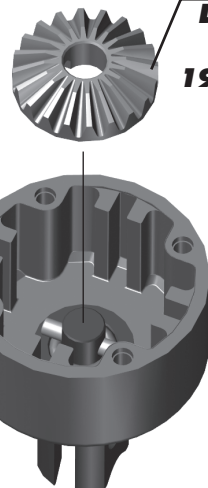
**EURO KIT**  
**81380**  
Diff Planet  
Gear Set,  
HTC

**81681**  
Pin  
2.5x12mm



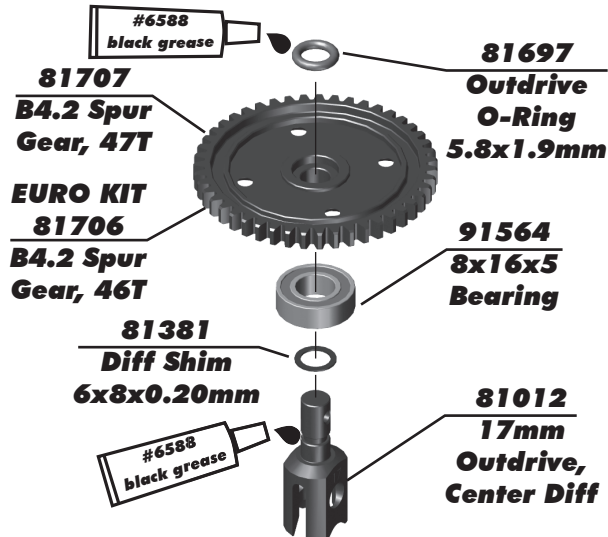
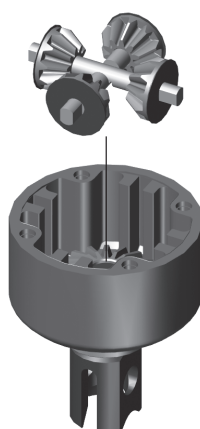
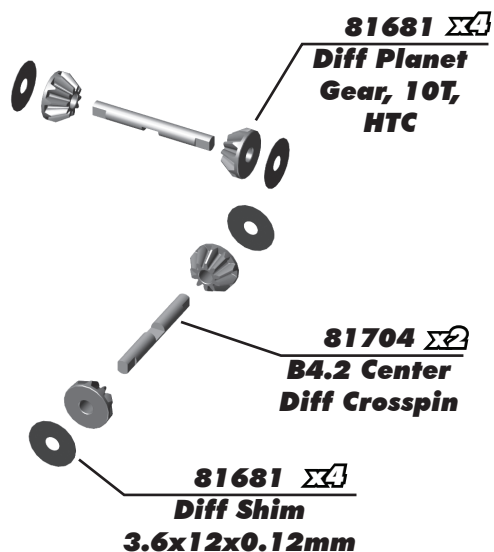
**EURO KIT**  
**81380**  
Diff Sun  
Gear,  
20mm HTC

**81681**  
Diff Sun  
Gear,  
19mm HTC

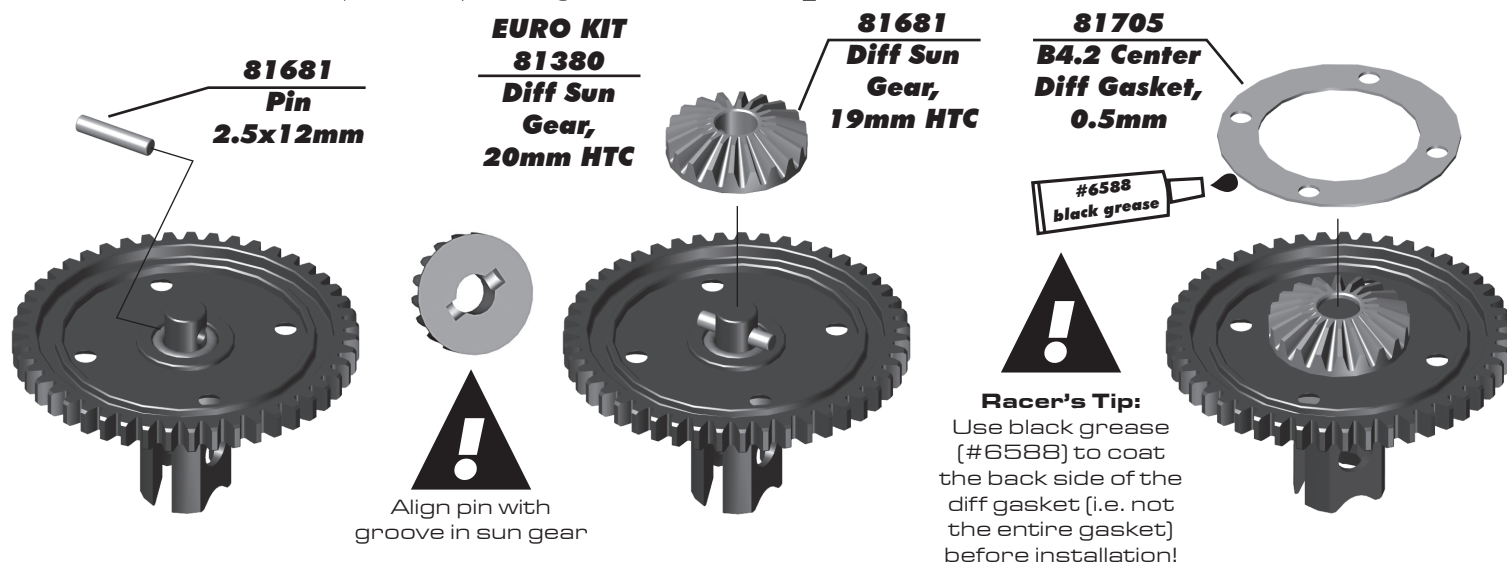


Align pin with  
groove in sun gear

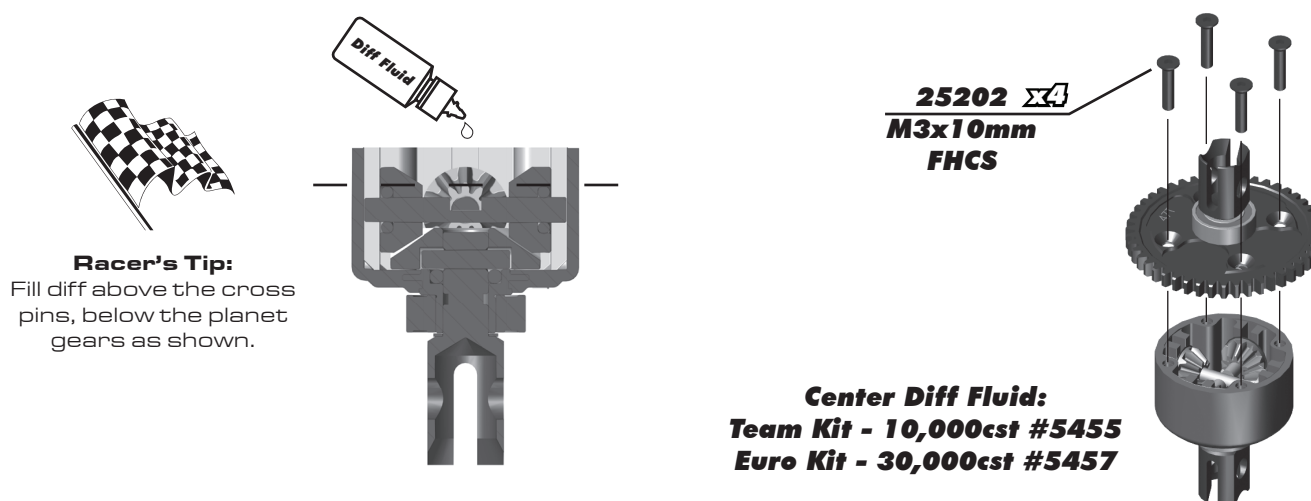
## :: Differential Build (Center) - Bag 1.1, 1.2 - Step 6



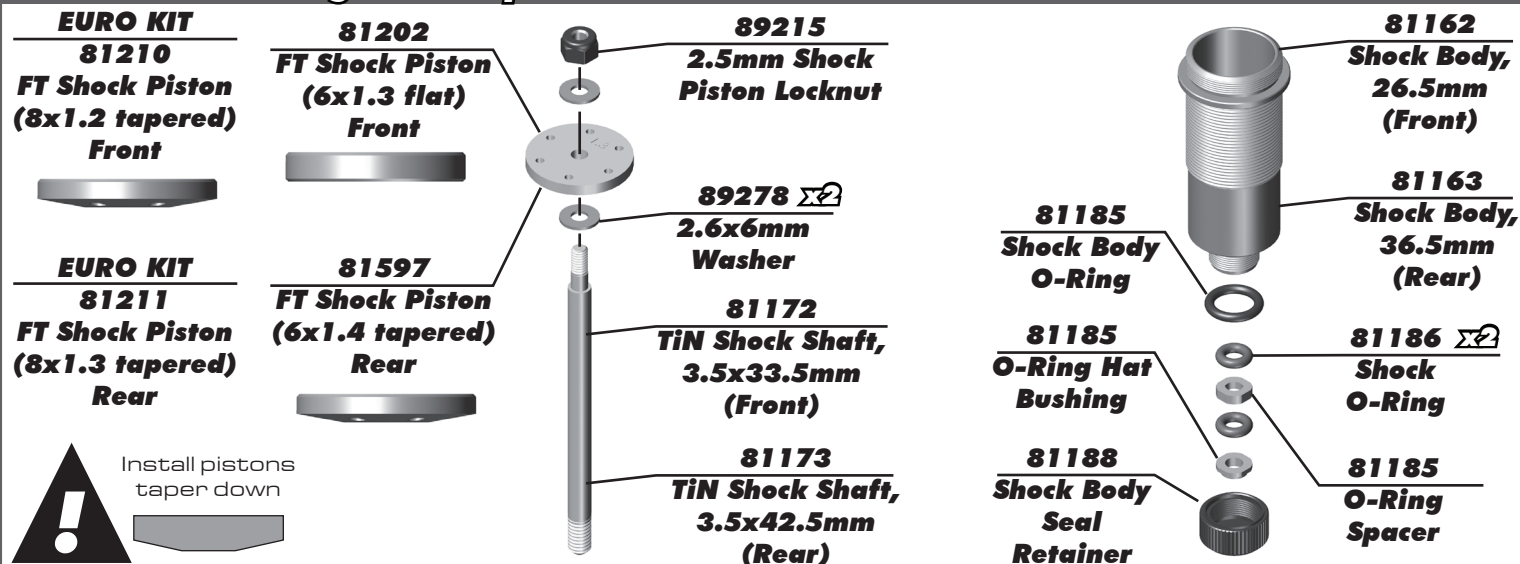
## :: Differential Build (Center) - Bag 1.1, 1.2 - Step 7



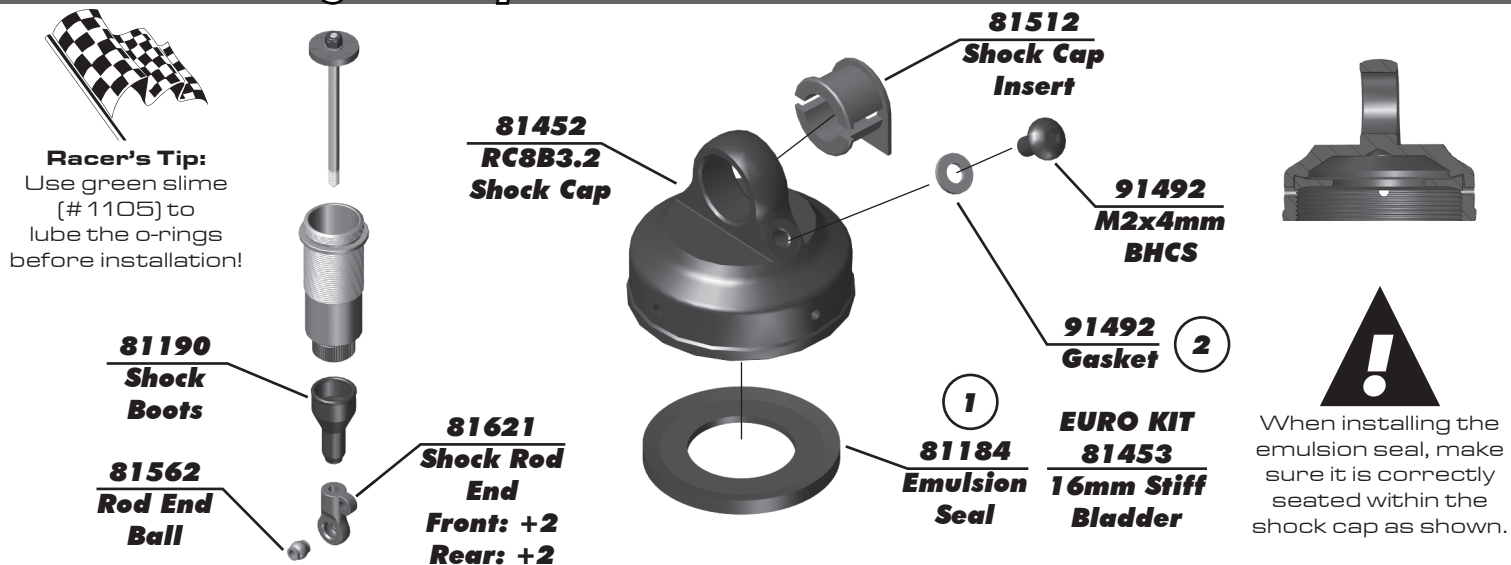
## :: Differential Build (Center) - Bag 1.1, 1.2 - Step 8



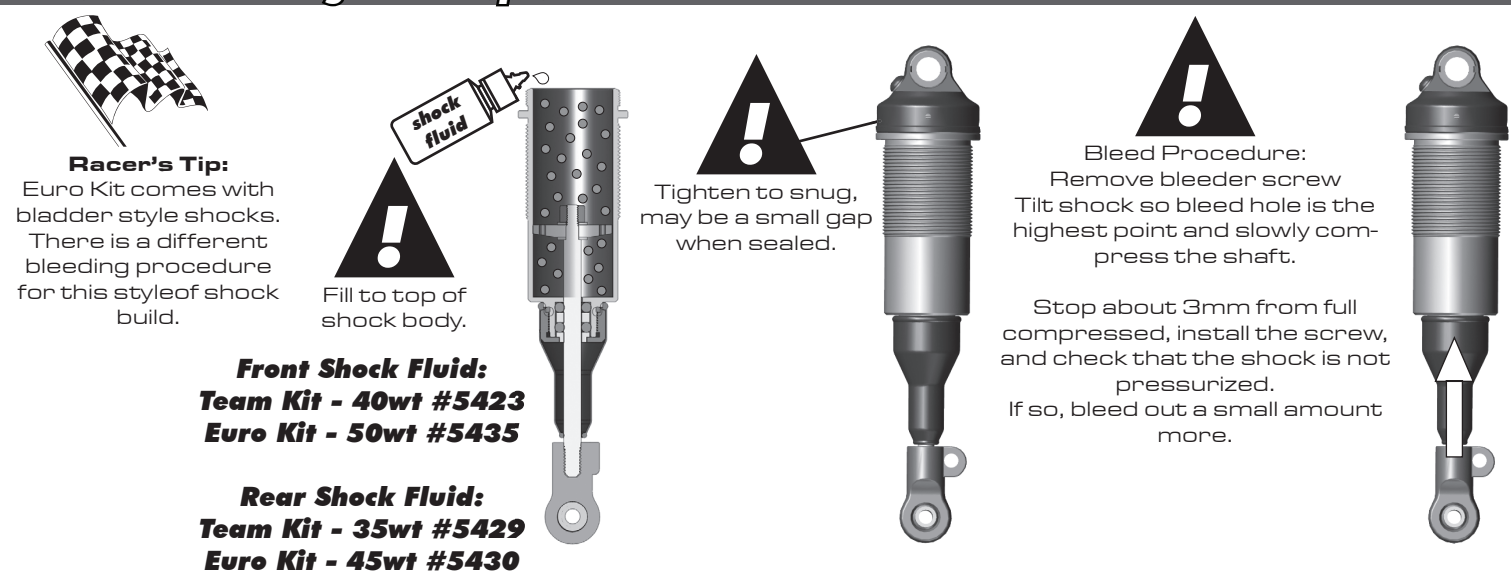
## :: Shocks Build - Bag 2.1 - Step 1



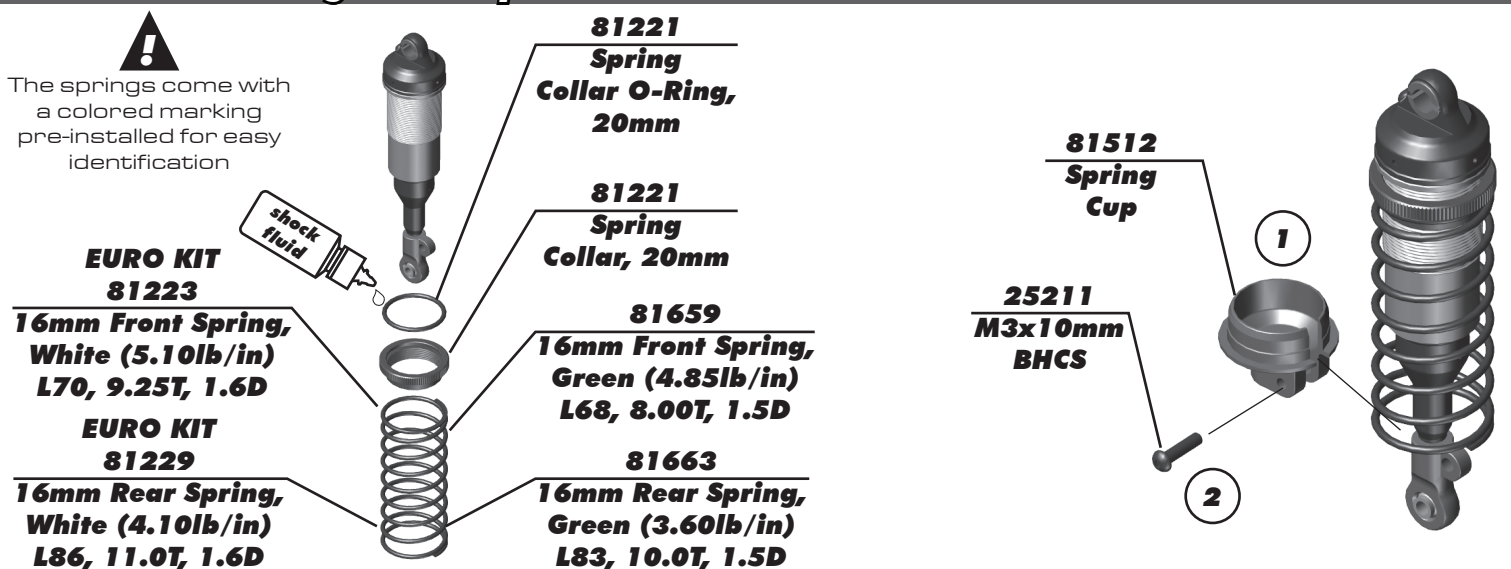
## :: Shocks Build - Bag 2.1 - Step 2



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

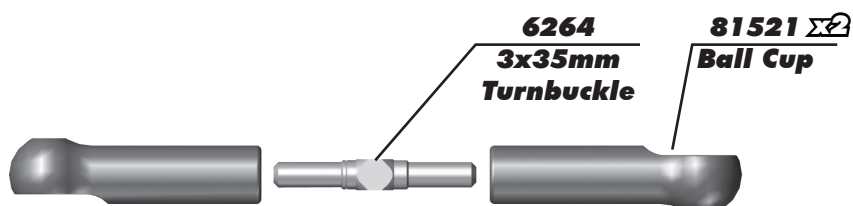


## :: Shocks Build - Bag 2.1 - Step 4



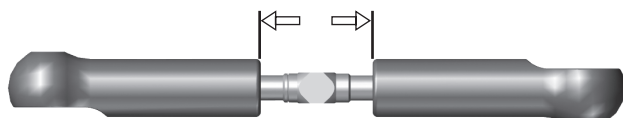
## :: Turnbuckles Build - Bag 3.1 - Step 1

### Steering Servo Turnbuckle



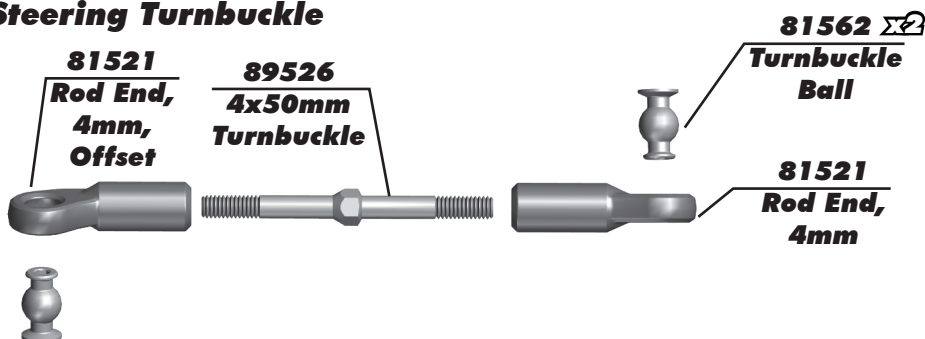
Set aside until page 22

**15.00mm (0.59")**



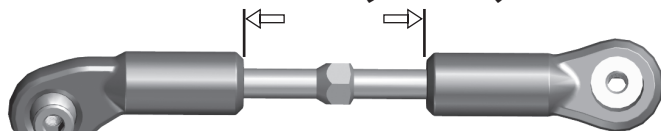
## :: Turnbuckles Build - Bag 3.1 - Step 2

### Steering Turnbuckle



Note the direction of  
turnbuckle ball

**24.20mm (0.952")**



**Left Turnbuckle**



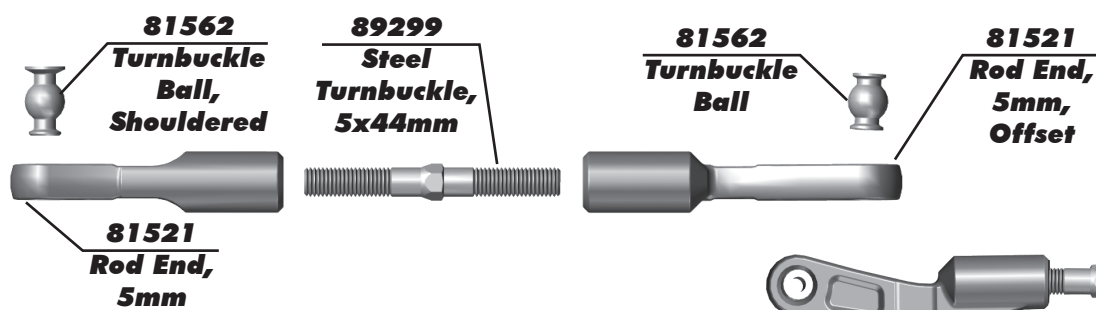
**Right Turnbuckle**



Set aside until page 15

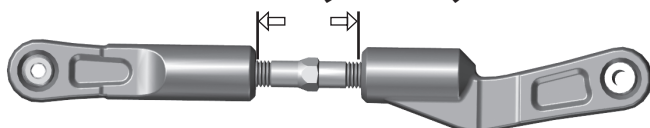
## :: Turnbuckles Build - Bag 3.1 - Step 3

### Rear Hub Turnbuckle

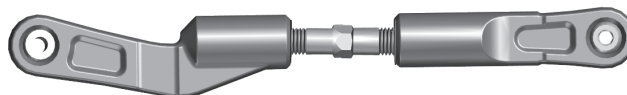


Set aside until page 19

**13.70mm (0.539")**

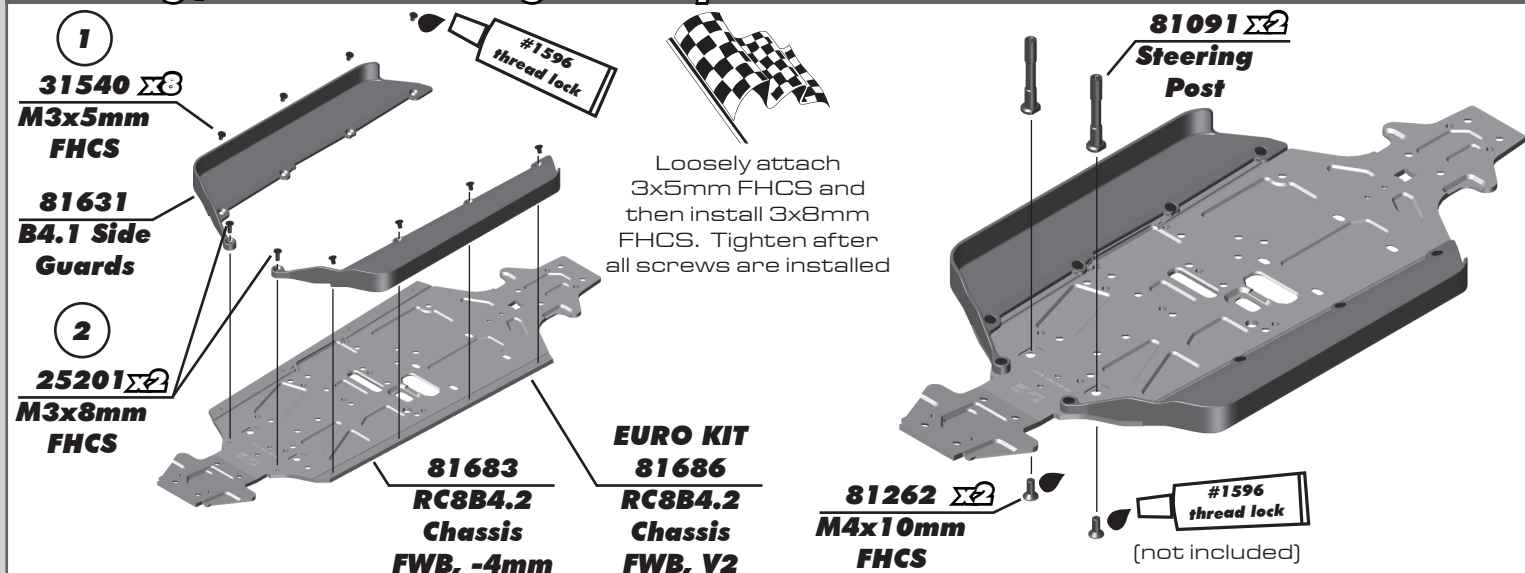


**Left Turnbuckle**

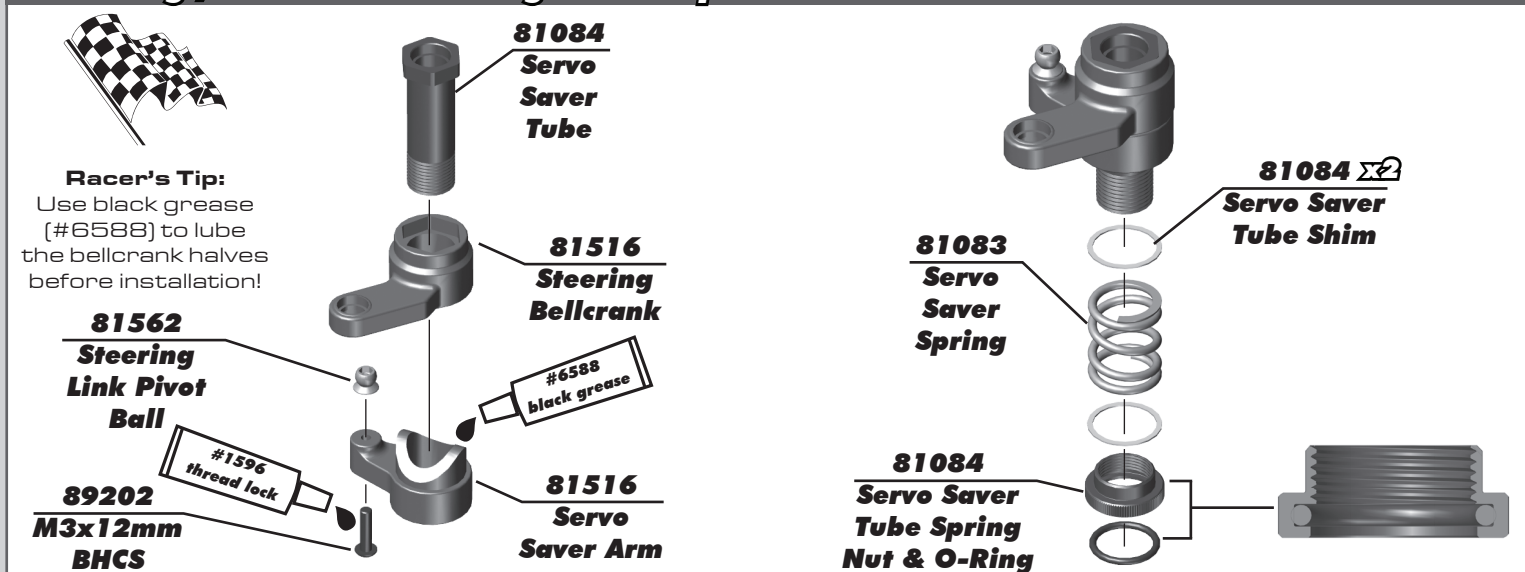


**Right Turnbuckle**

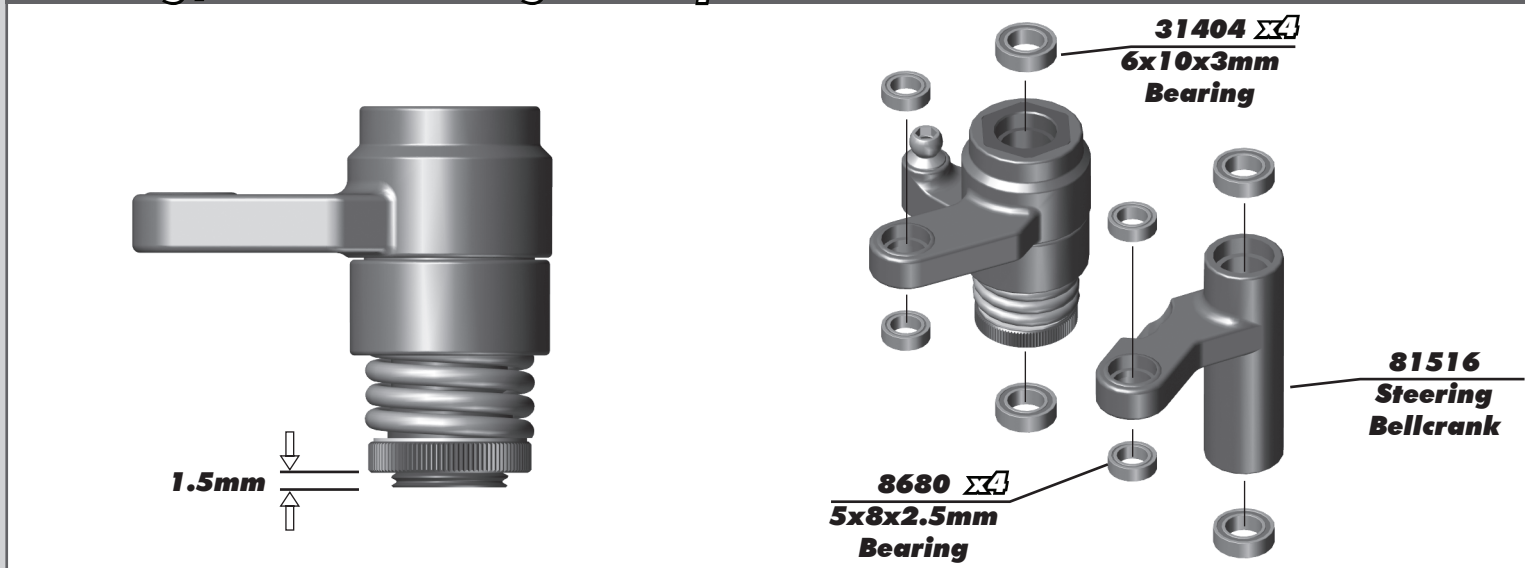
## :: Steering / Chassis Build - Bag 4.1 - Step 1



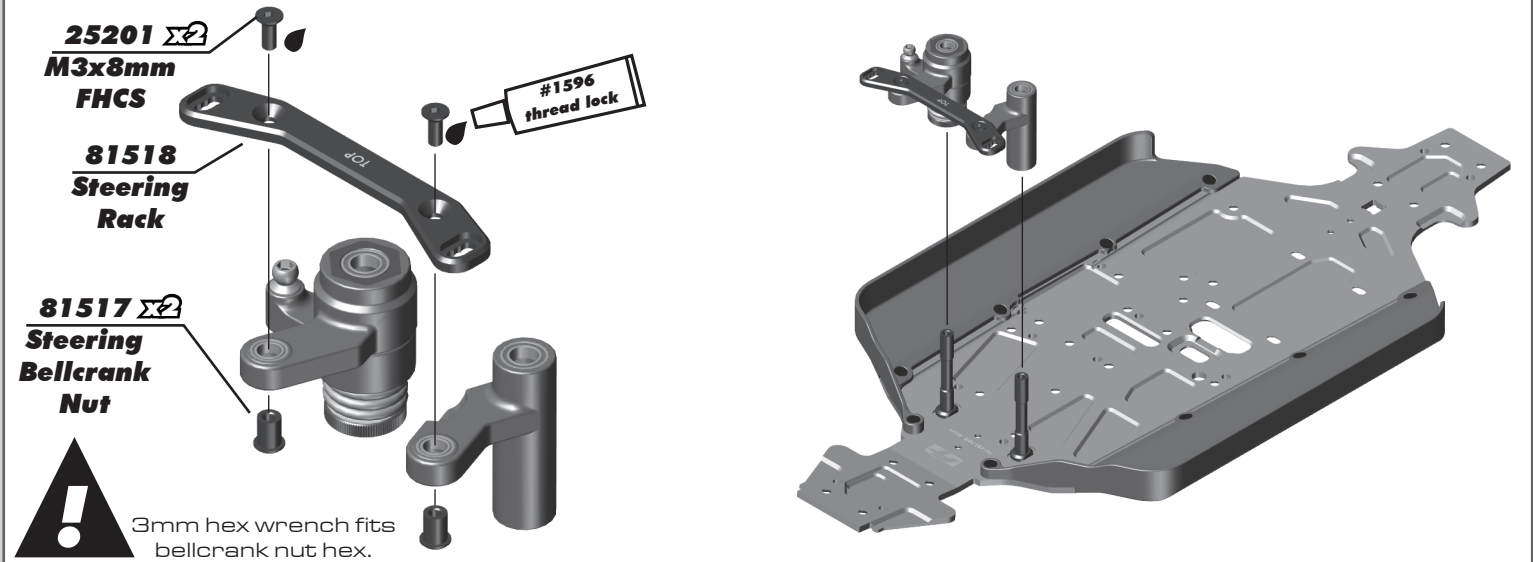
## :: Steering / Chassis Build - Bag 4.1 - Step 2



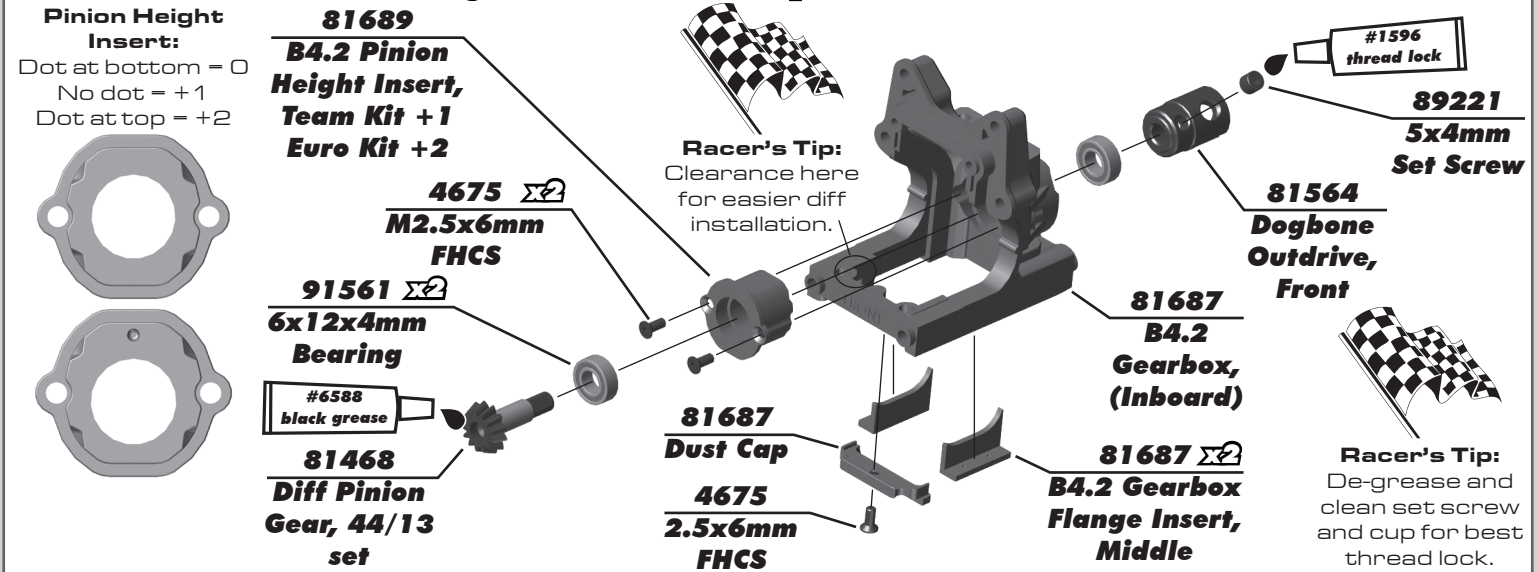
## :: Steering / Chassis Build - Bag 4.1 - Step 3



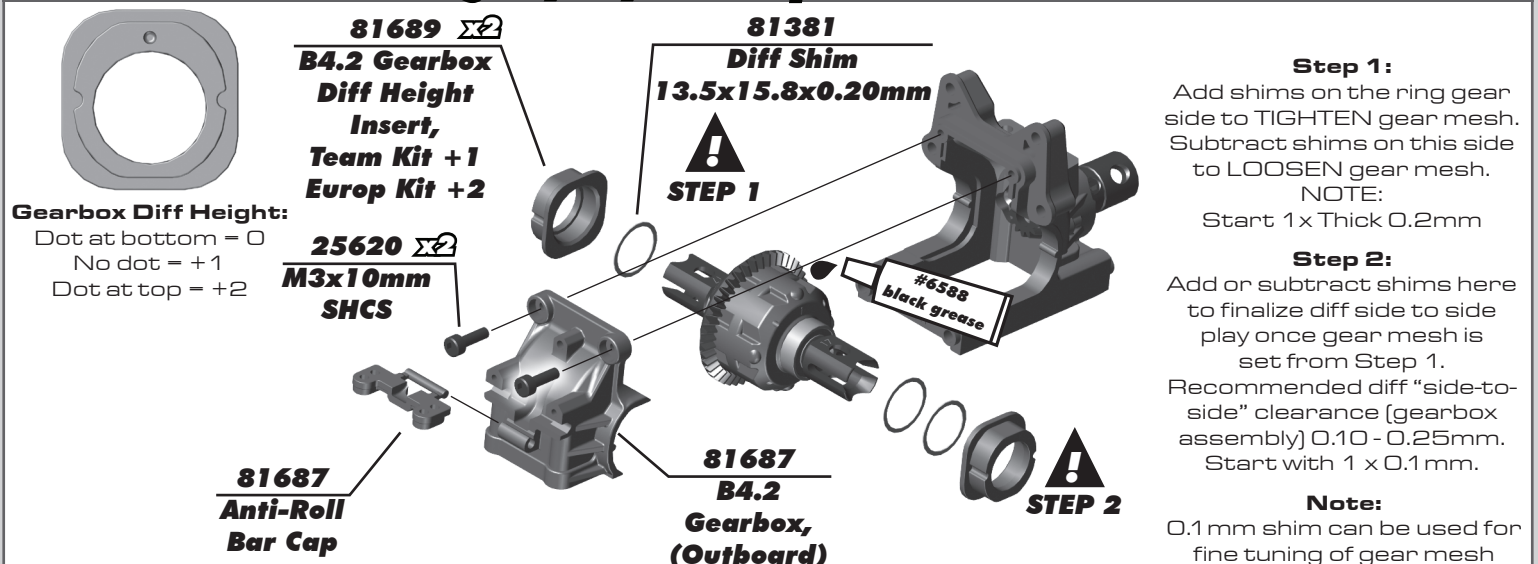
## :: Steering / Chassis Build - Bag 4.1 - Step 4



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



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



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

### Kit Setup:



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

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

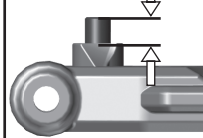
**81260**  $\Sigma 2$   
**M4x14mm  
BHCS**

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

**81260**  $\Sigma 2$   
**M4x14mm  
BHCS**

### Droop Screw:

Kit Setup:  
1.5mm



Start here,  
adjust to  
102mm  
shock length.

**Build left and right side!**

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

**81641**  $\Sigma 2$   
**B4.1 Hinge  
Pin, 66.3mm**

**89317**  
**Droop  
Screw**

**81636**  
**Front Lower  
Arm, Soft**

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

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

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

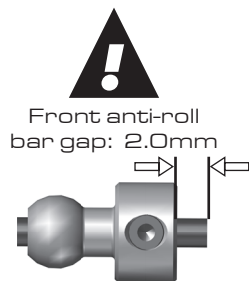
**81562**  
**Rod End  
Ball**

**Note direction**

**89203**  $\Sigma 2$   
**M3x16mm  
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

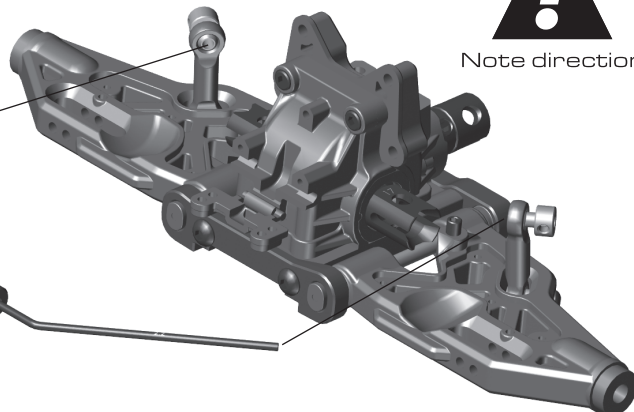
**81129**  
**(Front) Anti-Roll Bar,  
Team Kit - 2.1mm  
Euro Kit - 2.2mm**

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

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

**Center!**

**Note direction**

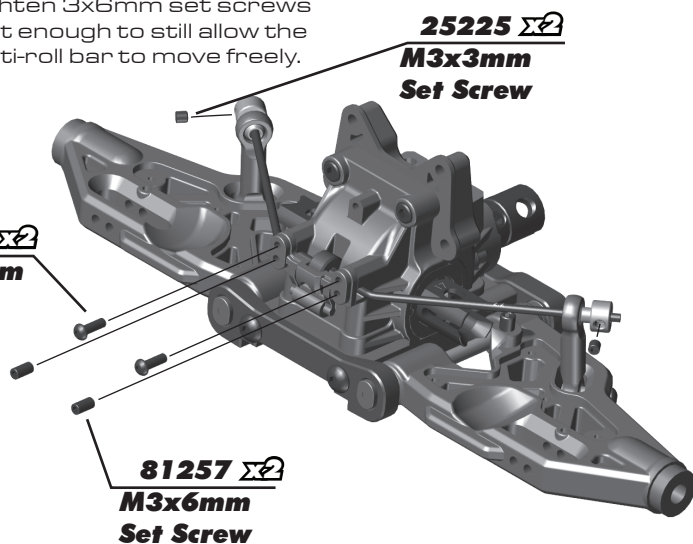


## :: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 6



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

**31521**  $\Sigma 2$   
**M2.5x8mm**  
**BHCS**



**25225**  $\Sigma 2$   
**M3x3mm**  
**Set Screw**

**81257**  $\Sigma 2$   
**M3x6mm**  
**Set Screw**

**89214**  
**M4x12mm**  
**FHCS**

**89216**  
**M4**  
**Locknut**

**81524**  
**Body Post,**  
**Front**

**81522**  
**Top Plate**

**31532**  
**M3x8mm**  
**BHCS**

**81702**  
**B4.2 Chassis**  
**Brace, Front,**  
**Long**

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

**Kit Setup:**

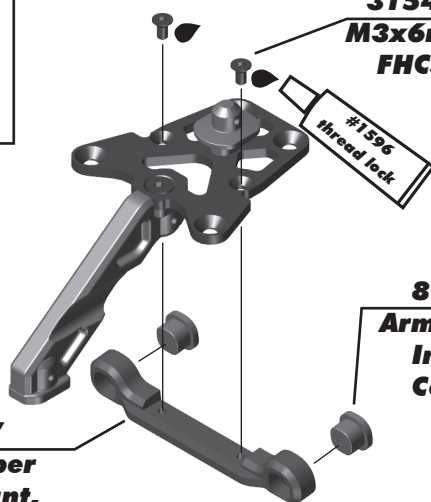


**31541**  $\Sigma 2$   
**M3x6mm**  
**FHCS**

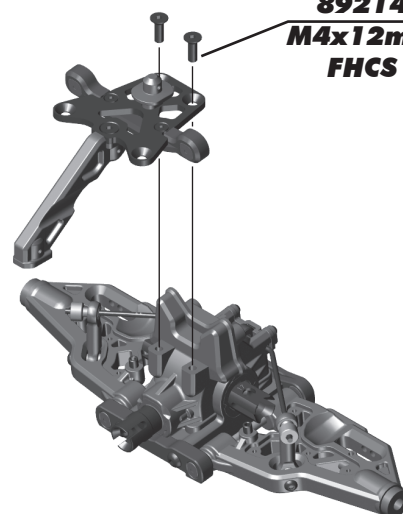
**#1596**  
**thread lock**

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

**81647**  
**B4.1 Upper**  
**Link Mount,**  
**Angled**



**89214**  $\Sigma 2$   
**M4x12mm**  
**FHCS**



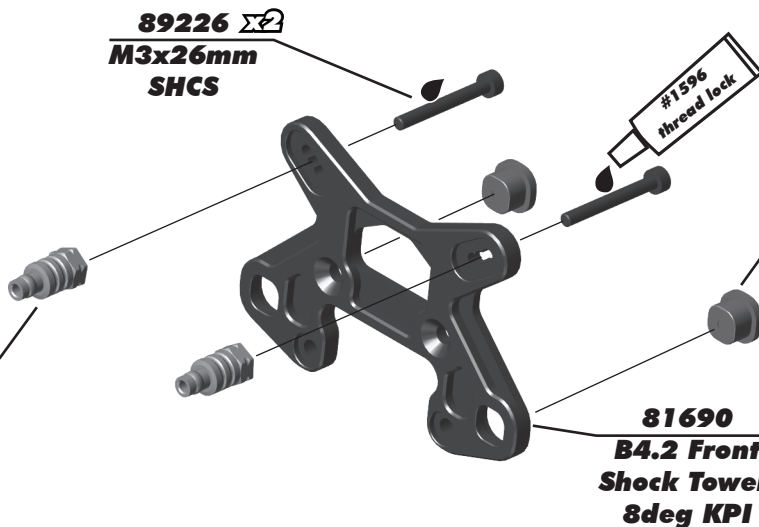
## :: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 8

**Kit Setup:**



**89226**  $\Sigma 2$   
**M3x26mm**  
**SHCS**

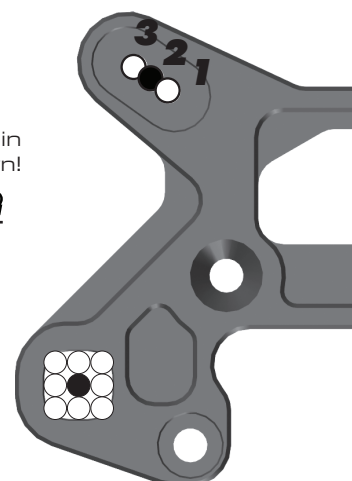
**81591**  $\Sigma 2$   
**FT Shock**  
**Bushing,**  
**14mm**



**!**  
Install arm  
mount inserts in  
direction shown!

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

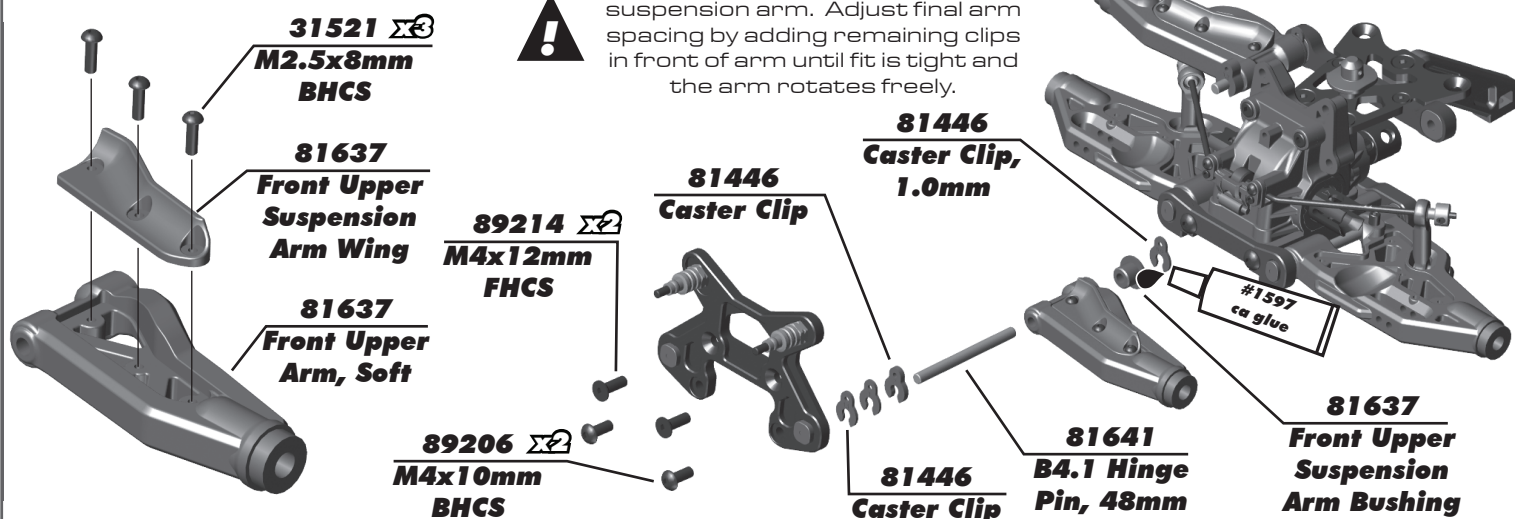
**81690**  
**B4.2 Front**  
**Shock Tower,**  
**8deg KPI**



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

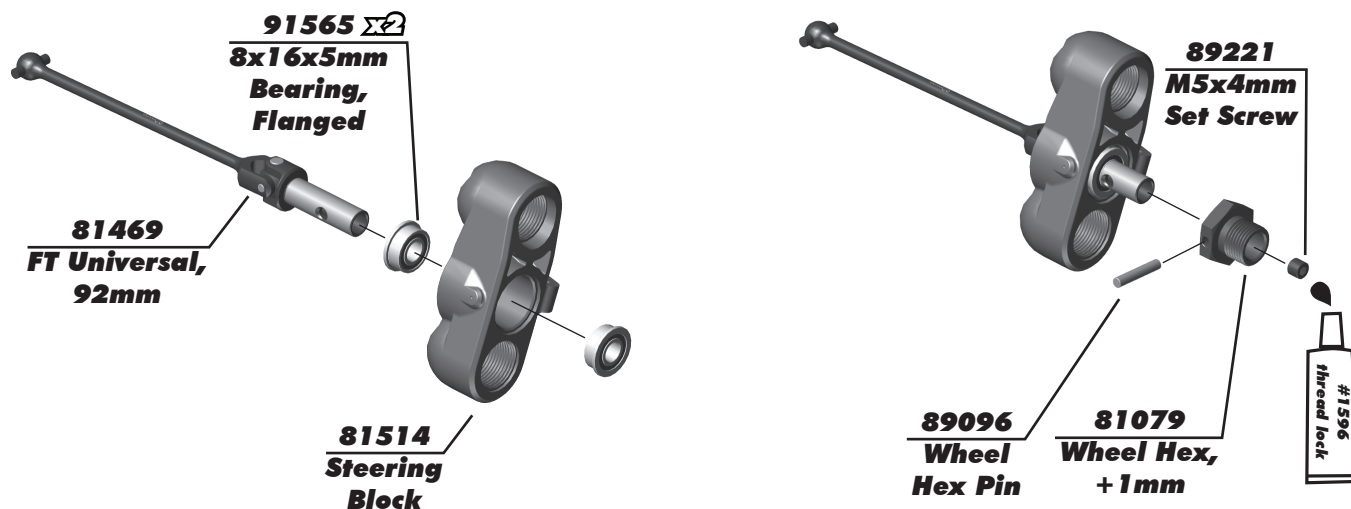
**Build left and right side!**

Add 1.0mm caster clip behind suspension arm. Adjust final arm spacing by adding remaining clips in front of arm until fit is tight and the arm rotates freely.



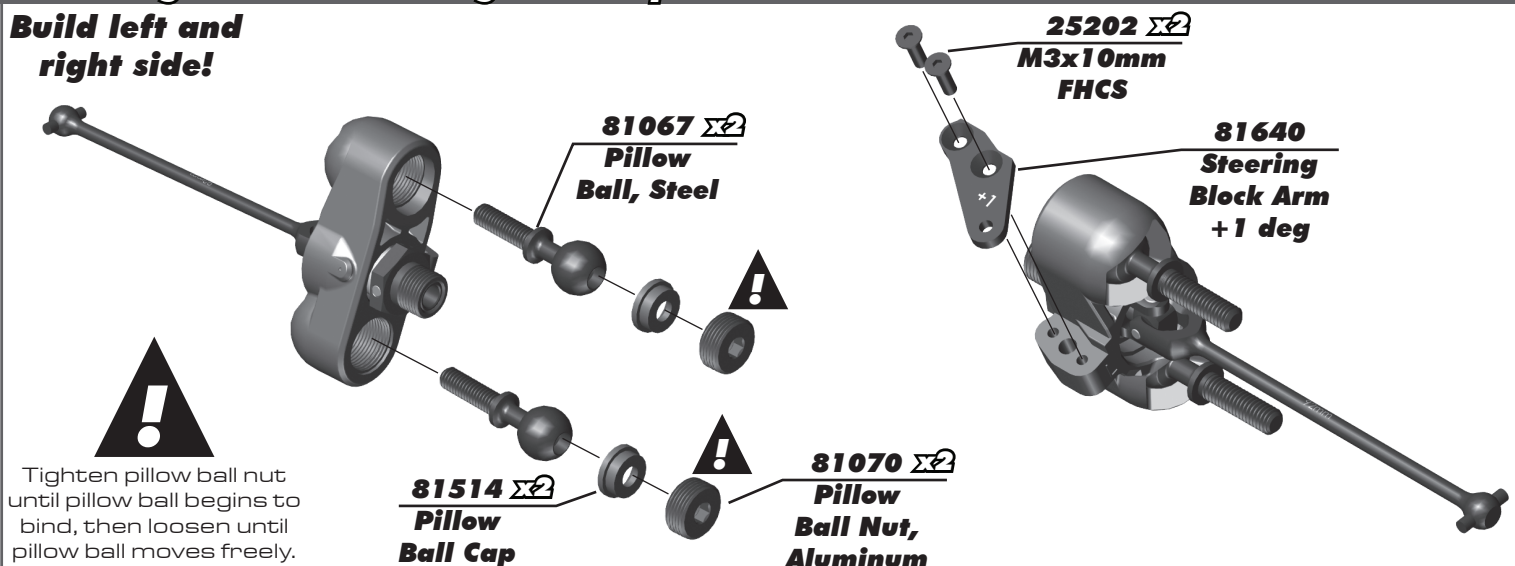
## :: Steering Blocks Build - Bag 6.1 - Step 1

**Build left and right side!**

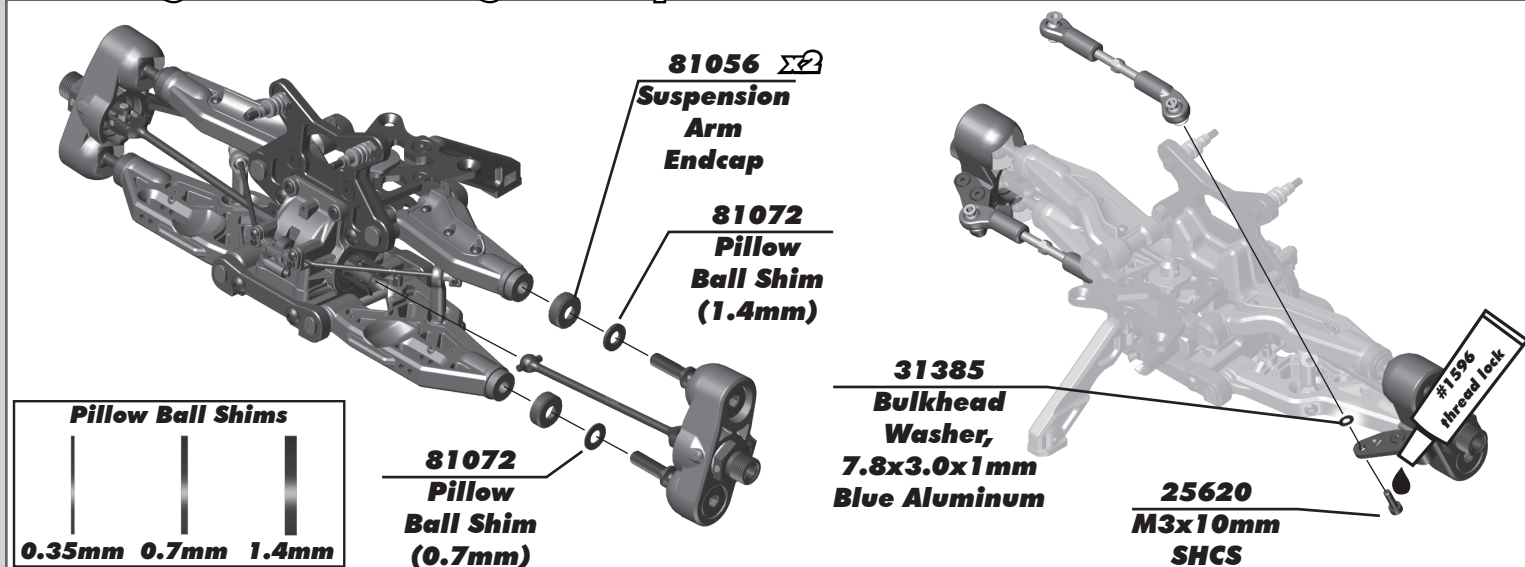


## :: Steering Blocks Build - Bag 6.1 - Step 2

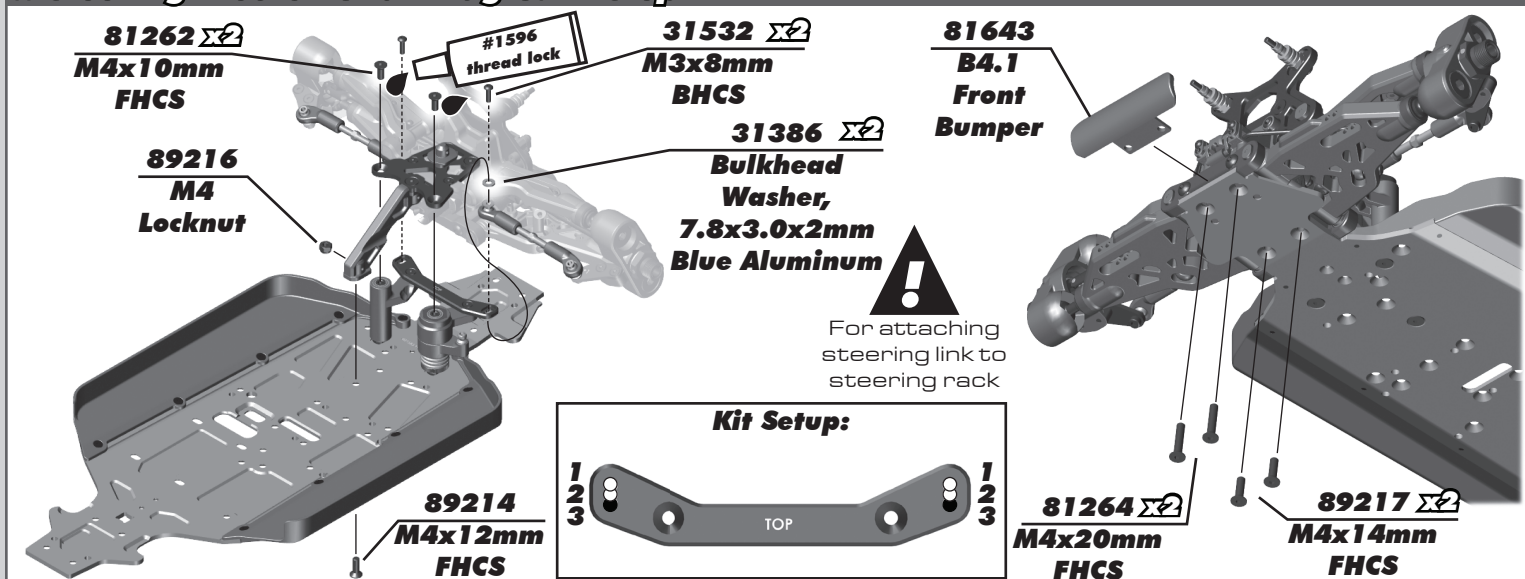
**Build left and right side!**



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



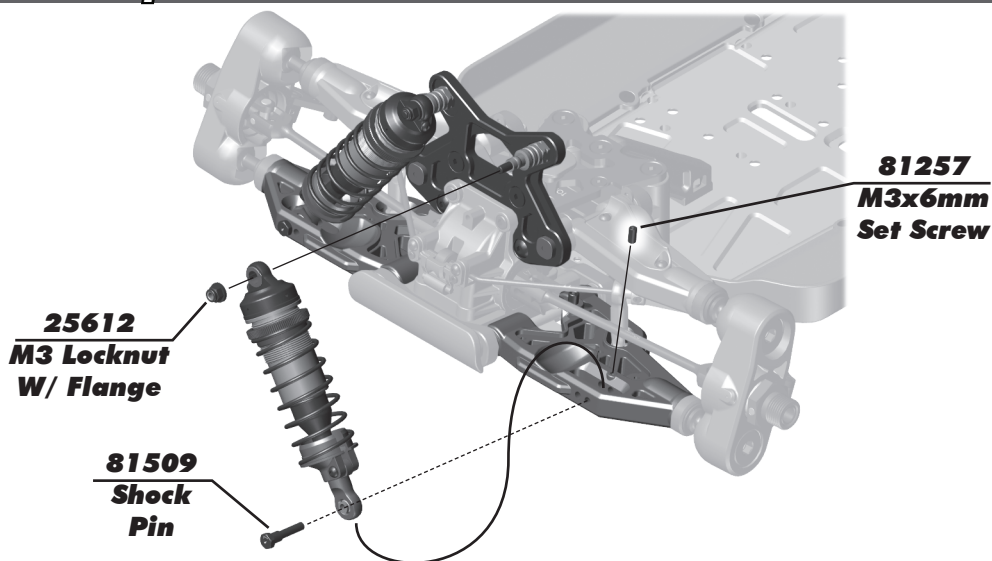
## :: Steering Blocks Build - Bag 6.1 - Step 4



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

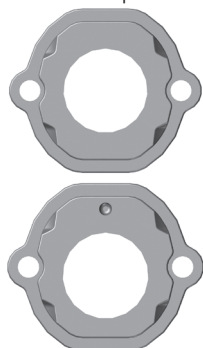
### Kit Setup:

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



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

**Pinion Height Insert:**  
 Dot at bottom = 0  
 No dot = +1  
 Dot at top = +2



**81689**  
**B4.2 Pinion Height Insert, Team Kit 0 Euro Kit +1**

**4675**   
**M2.5x6mm FHCS**

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

**81468**  
**Diff Pinion Gear, 44/13 set**

**Racer's Tip:**  
 Clearance here for easier diff installation.

**81688**  
**Dust Cap**  
**4675**  
**M2.5x6mm FHCS**

**81688**  
**B4.2 Gearbox, (Inboard)**

**81688**   
**B4.2 Gearbox Flange Insert, Low**

**91561**   
**6x12x4mm Bearing**

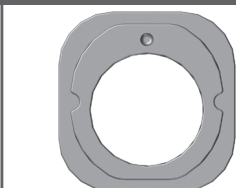
**81565**  
**Dogbone Outdrive, Rear**

**#1596**  
**thread lock**

**89221**  
**M5x4mm Set Screw**

**Racer's Tip:**  
 De-grease and clean set screw and cup for best thread lock.

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



**Gearbox Diff Height:**  
 Dot at bottom = 0  
 No dot = +1  
 Dot at top = +2

**81689**   
**B4.2 Gearbox Diff Height Insert, Team Kit 0 Europ Kit +1**

**25620**   
**M3x10mm SHCS**

**81688**  
**Anti-Roll Bar Cap**

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

**STEP 1**

**81688**  
**B4.2 Gearbox, (Outboard)**

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

**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:

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

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

### Kit Setup:

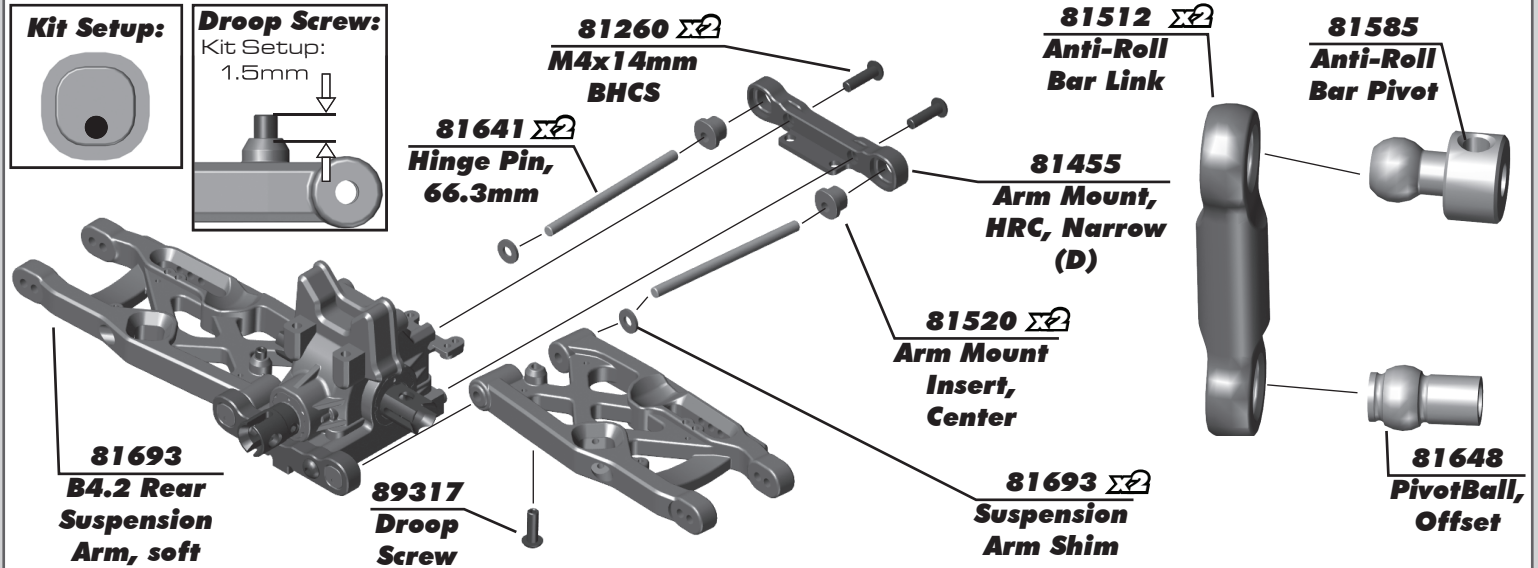


**81454**  
**Arm Mount, HRC, Narrow (C)**

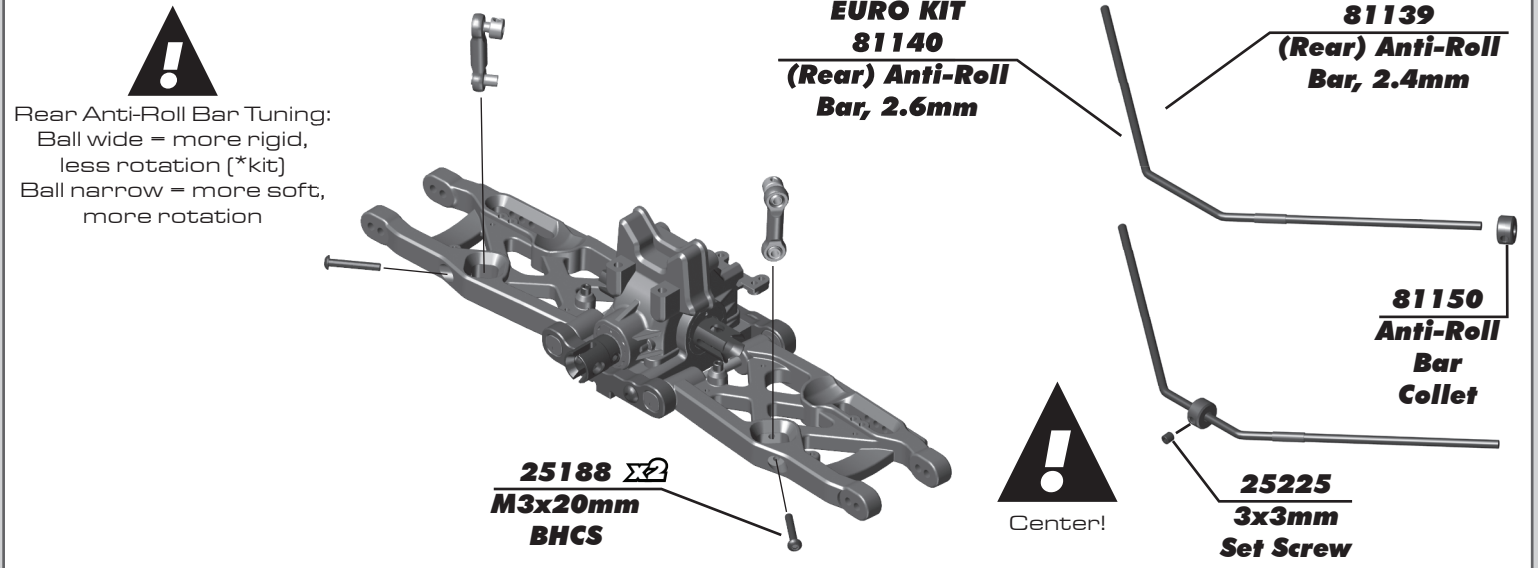
**81260**   
**M4x14mm BHCS**

**81520**   
**Arm Mount Insert, Center**

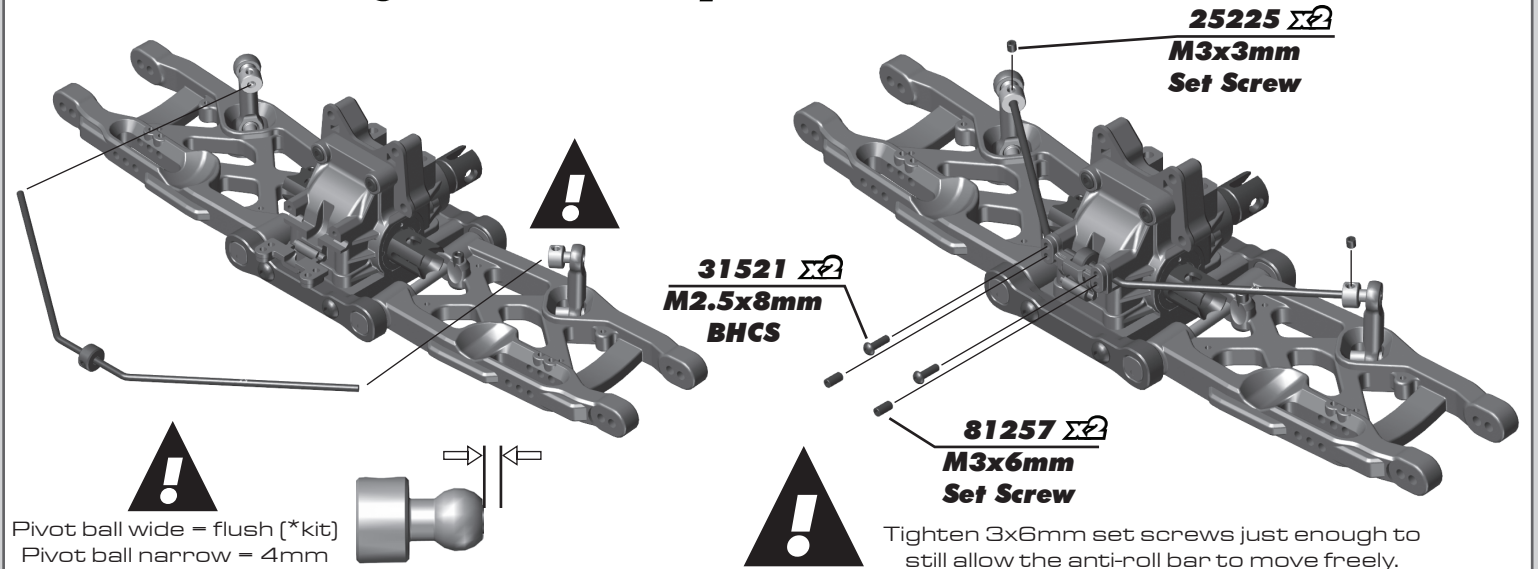
## :: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 4



## :: 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

**!**  
Check label on chassis brace in this area.

**25189**  
**M3x22mm**  
**BHCS**

**81702**  
**Chassis**  
**Brace**  
**Mount**

**81702**   
**Rear Chassis**  
**Brace Insert**

**25612**  
**M3**  
**Locknut**  
**W/Flange**

**81702**  
**B4.2 Chassis Brace, Rear**  
**Team - FWB -4**  
**Euro - FWB V2**

**89214**   
**M4x12mm**  
**FHCS**

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

**Kit Setup:**

**81591**   
**FT Shock**  
**Bushing,**  
**17mm**

**89208**  
**M3x14mm**  
**FHCS**

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

**89208**   
**M3x14mm**  
**FHCS**

**81524**  
**Body Post,**  
**Rear**

**81558**  
**Body Post**  
**Grommet**

**81524**  
**Body Post**  
**Mount, Rear**

**41090**  
**M3x10mm**  
**LP SHCS**

**89227**   
**M3x28mm**  
**SHCS**

**81700**  
**High Downforce**  
**Wing, Black**

**81692**  
**B4.2 Rear**  
**Shock Tower**

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

**81552**  
**Wing Mount**

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

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

**!**  
Refer to previous  
step (8) for wing  
height position

**81552**   
**Wing**  
**Mount**  
**Adapter**

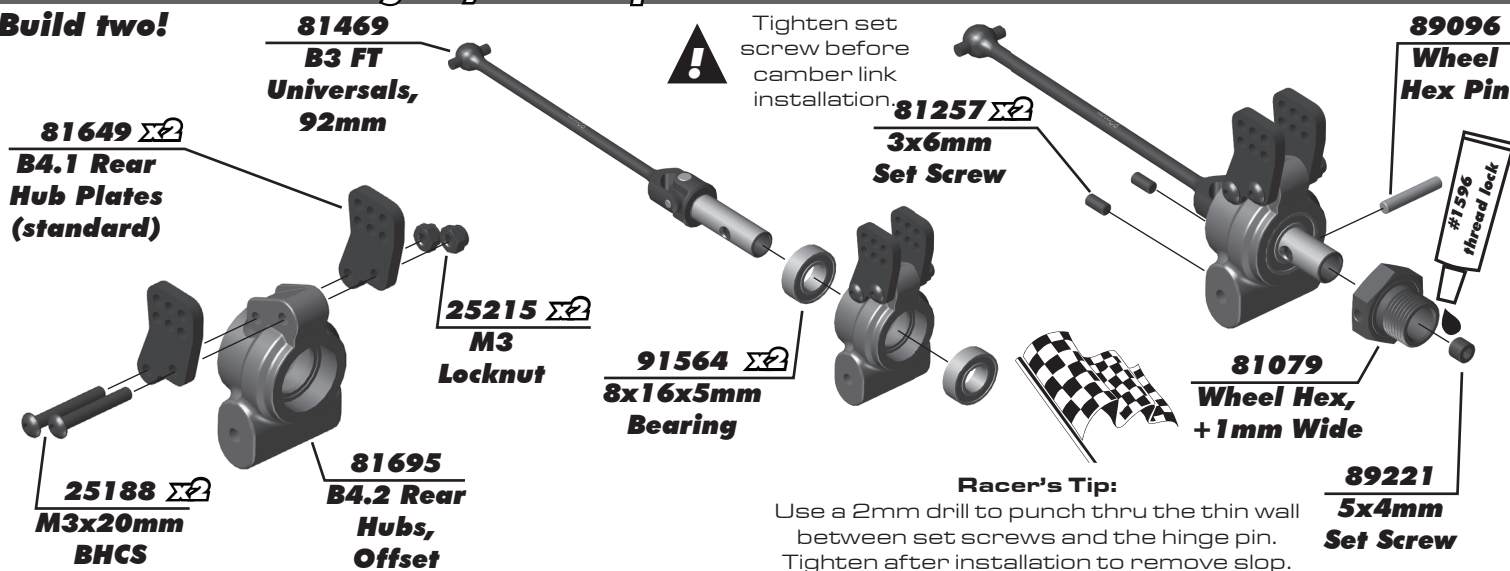
**25215**   
**M3**  
**Locknut**

**89454**   
**M3x12mm**  
**SHCS**

**89214**   
**M4x12mm**  
**FHCS**  
**89206**   
**M4x10mm**  
**BHCS**

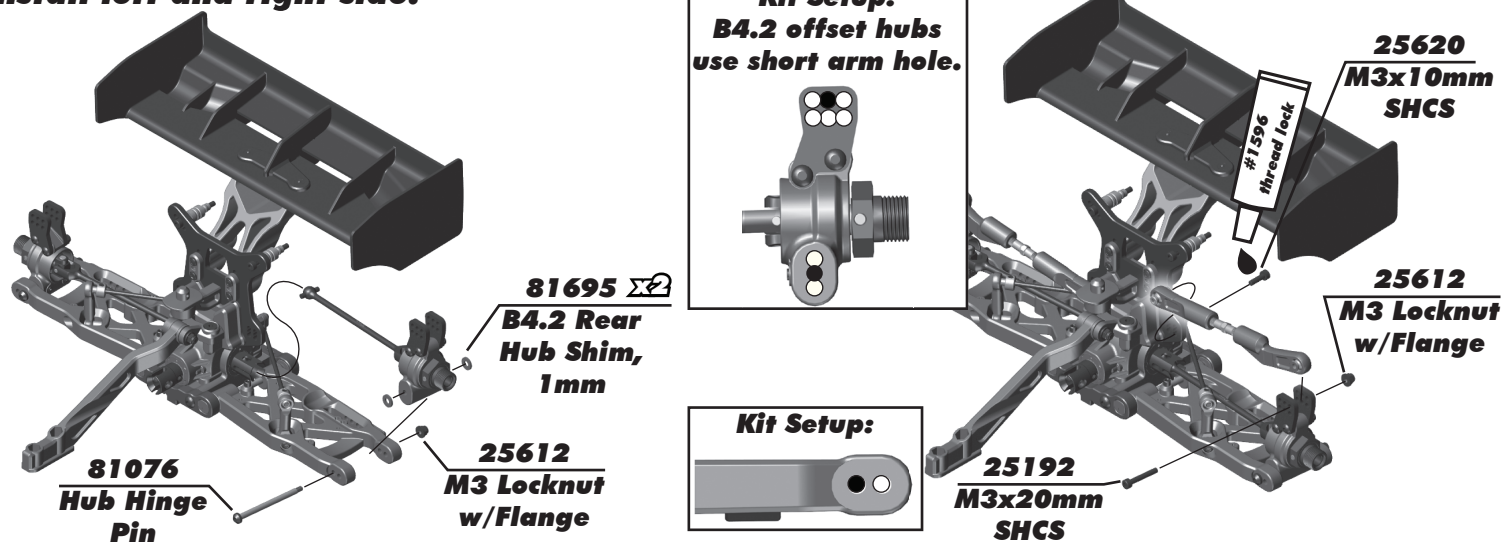
## :: Rear Hubs Build - Bag 8.1, 8.2 - Step 1

### Build two!



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

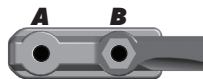
### Install left and right side!



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

### Tuning Tip:

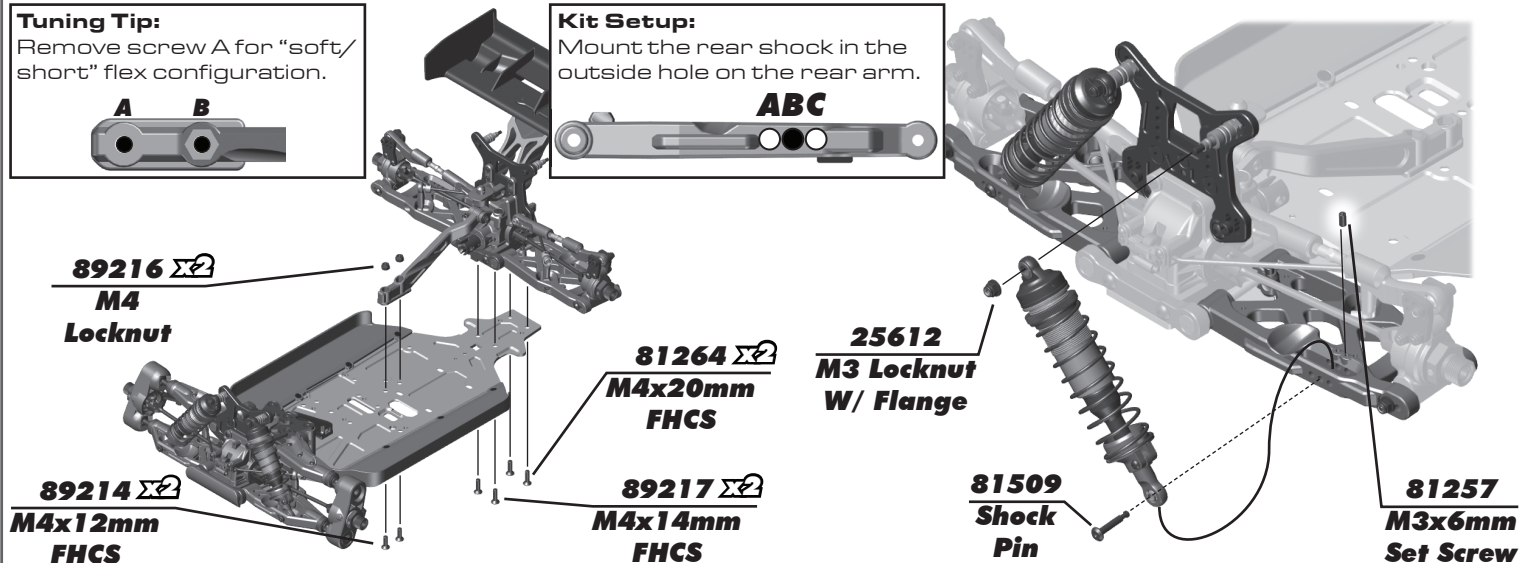
Remove screw A for "soft/short" flex configuration.



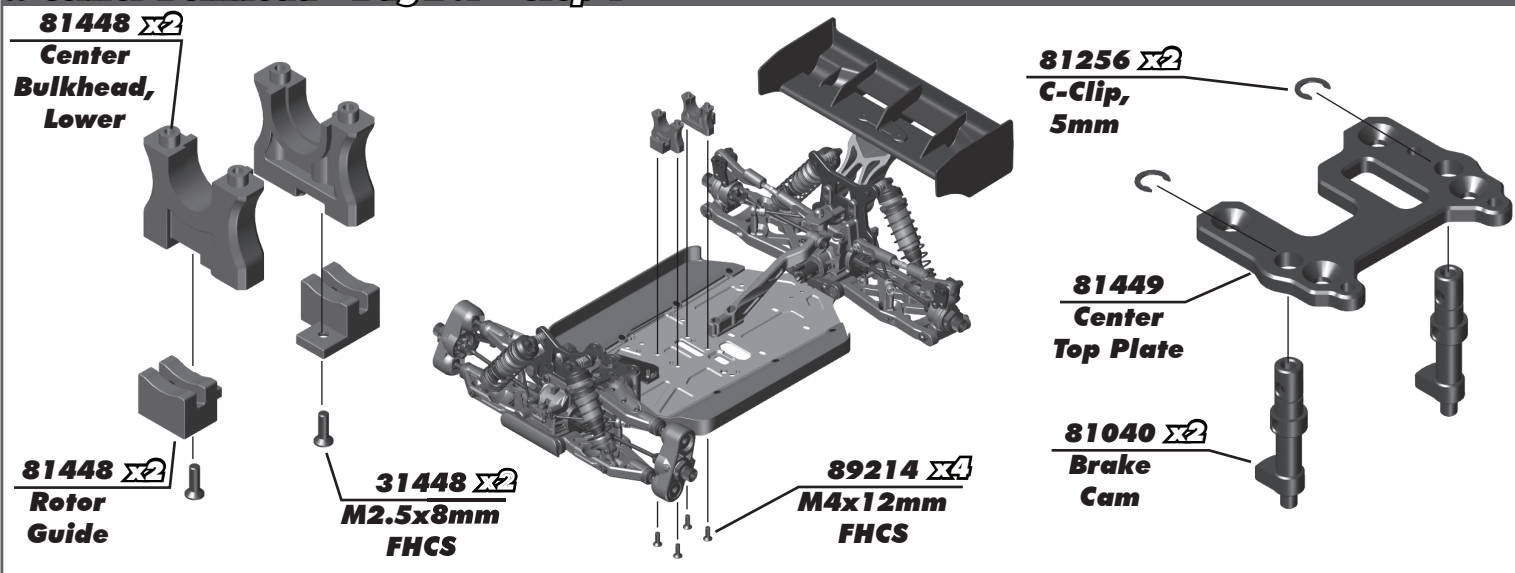
### Kit Setup:

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

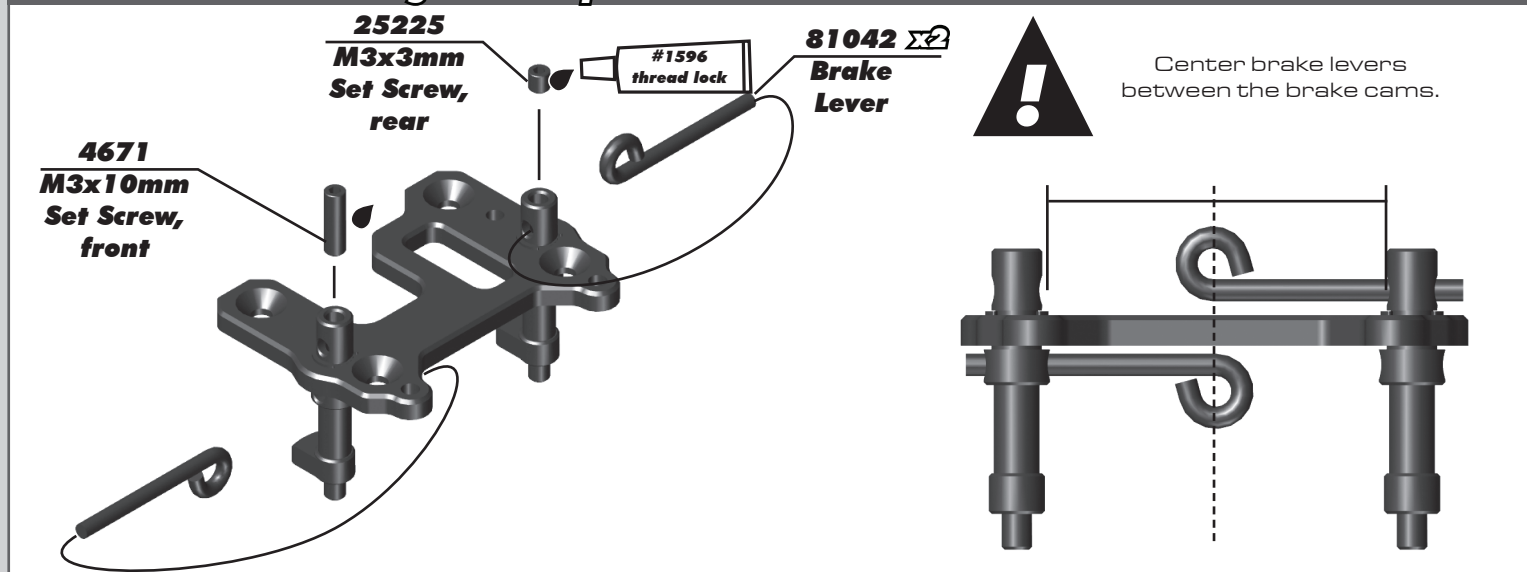
**ABC**



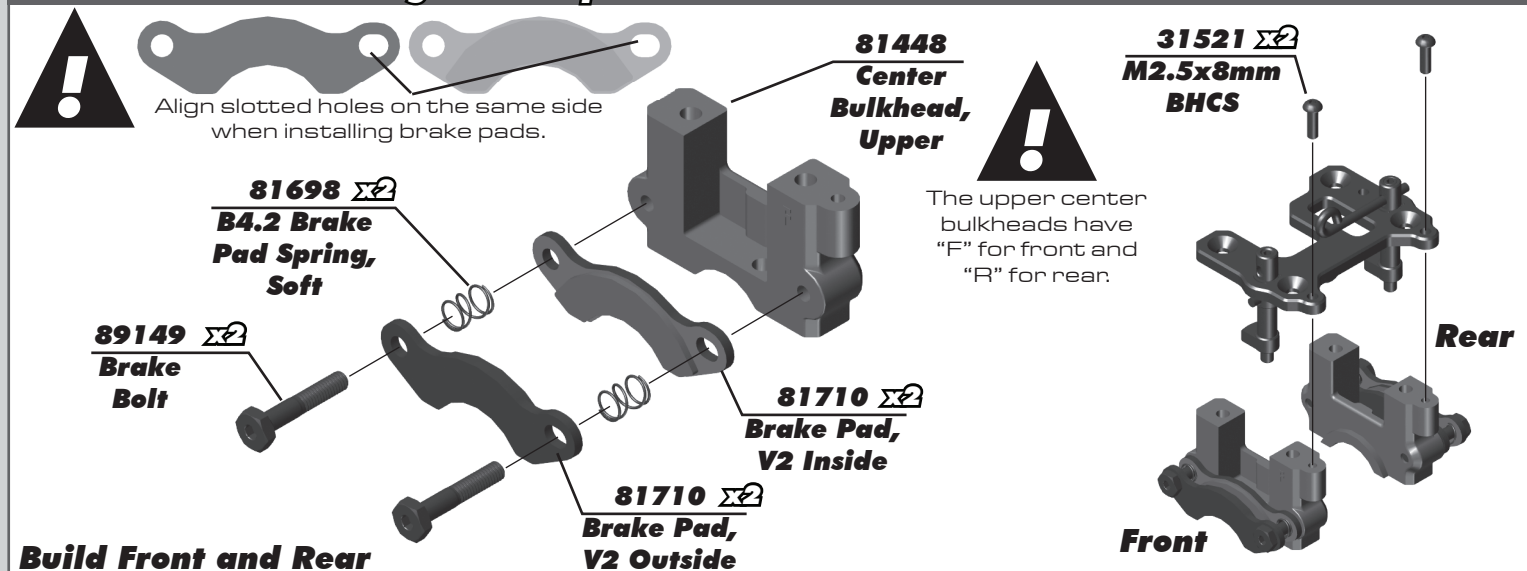
## :: Center Bulkhead - Bag 9.1 - Step 1



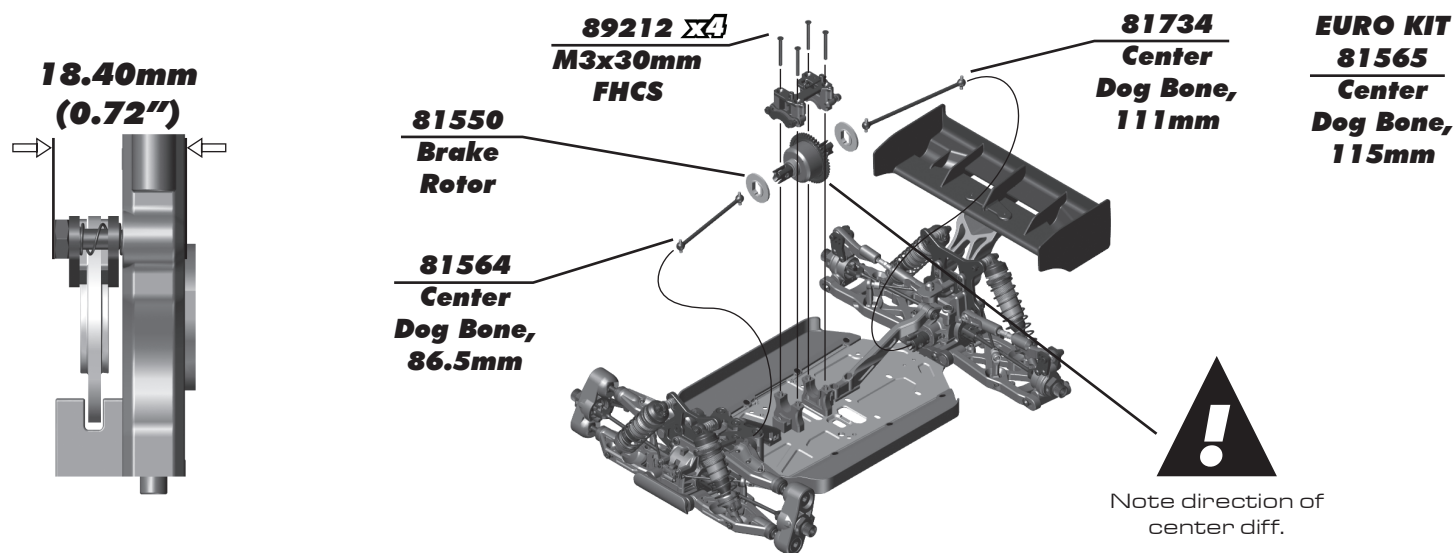
## :: Center Bulkhead - Bag 9.1 - Step 2



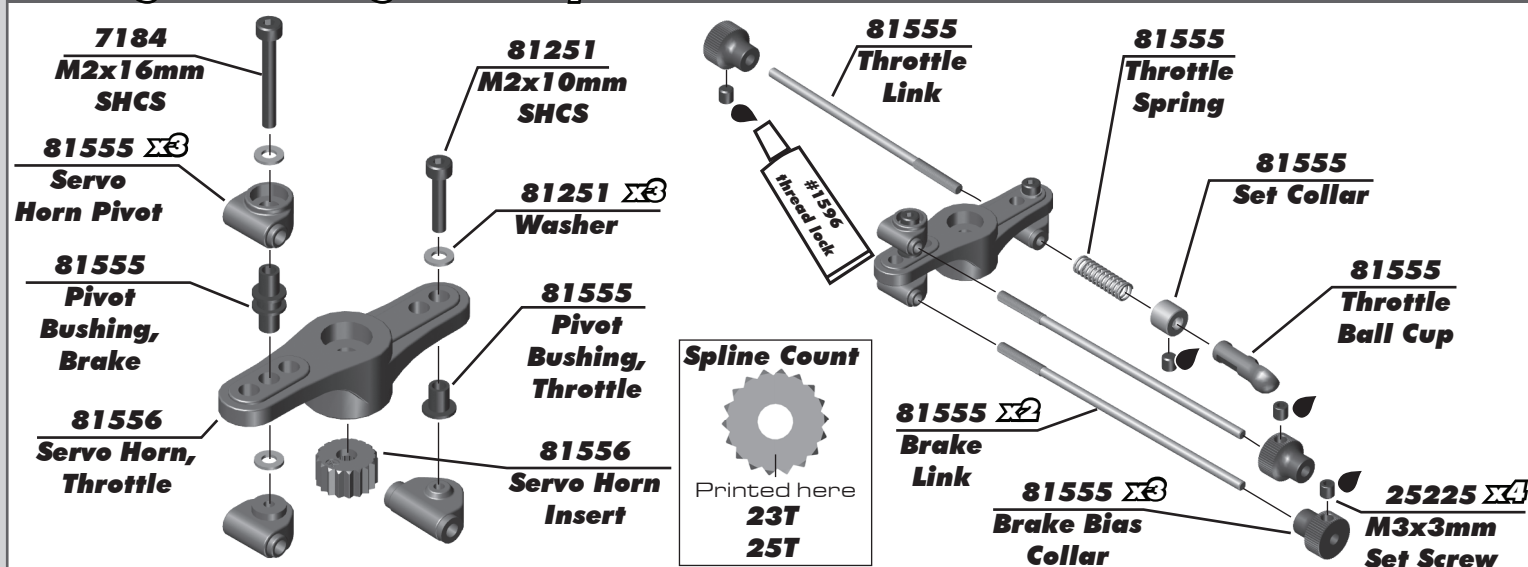
## :: Center Bulkhead - Bag 9.1 - Step 3



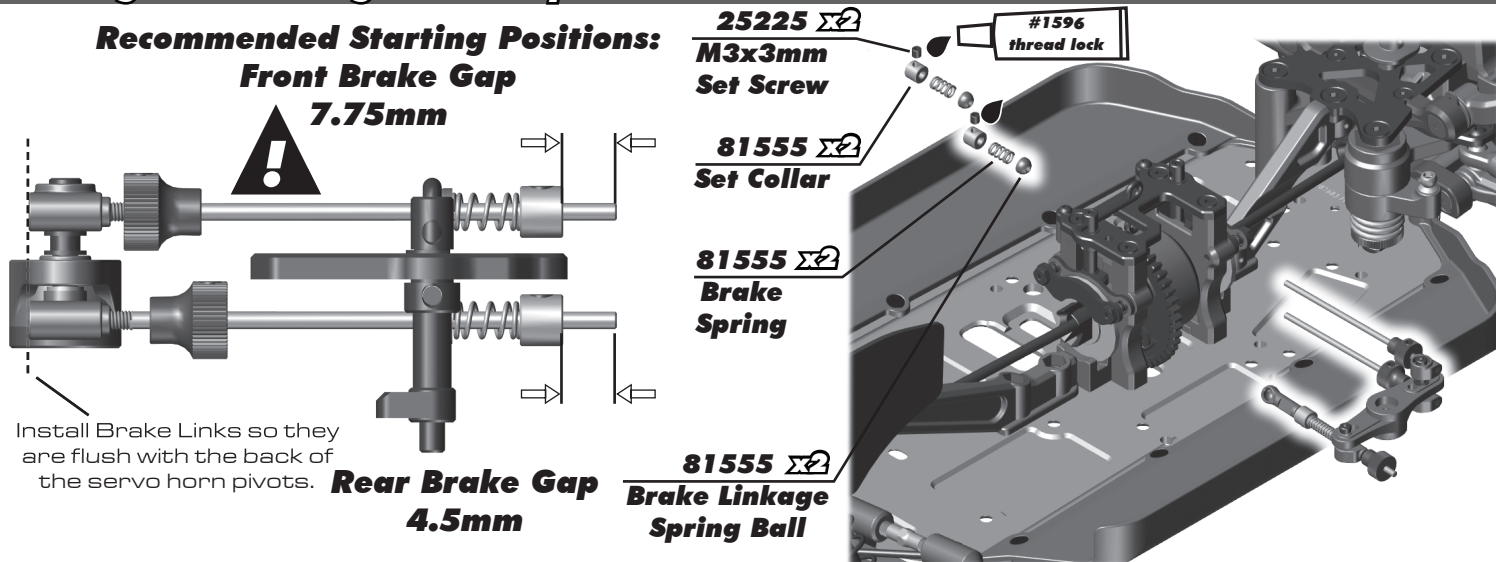
## :: Center Bulkhead - Bag 9.1 - Step 4



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



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



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

### Spline Count



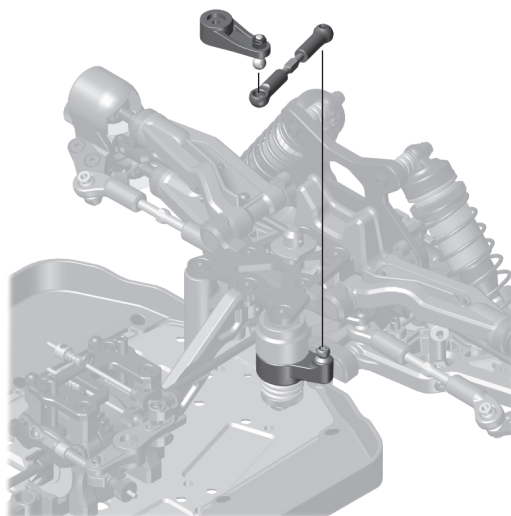
Printed here  
**23T**  
**25T**

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

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

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

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



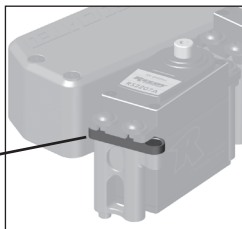
## :: Radio Tray Build - Bag 11.1 - Step 1

### Radio Tray Configuration:

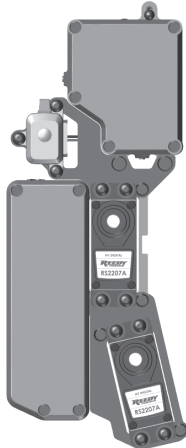
The radio tray on RC8B4 can be configured in four different ways. Each configuration changes the amount and location of flex in the chassis. Experiment with different configurations when running on different surfaces.

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

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

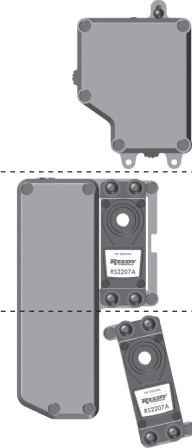


### Option 1



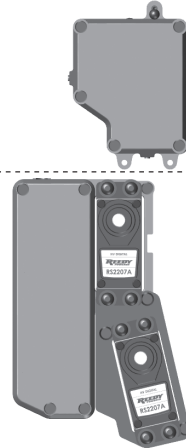
**Least Flex**  
**(Kit Setup)**

### Option 2



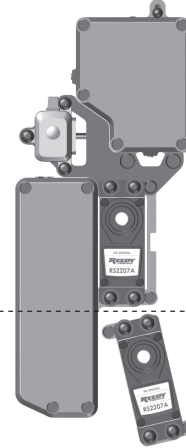
**Most Flex**

### Option 3



**More Rearward**  
**Flex**

### Option 4



**More Frontward**  
**Flex**

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

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

**81592**  
**FT Radio**  
**Brace, RWB**

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

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

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

Servo not  
included!

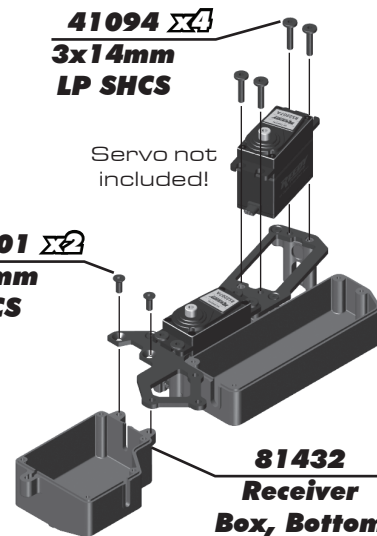
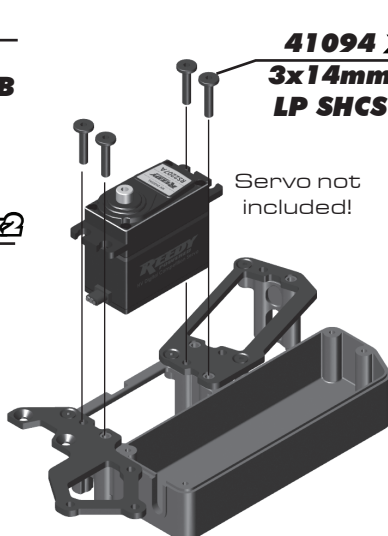
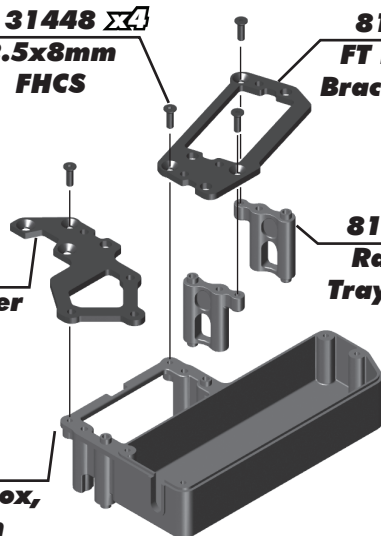
Servo not  
included!

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

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

**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**

Transponder not included!

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

The switch and transponder positions can be reversed if desired

**25211**  
**3x10mm FHCS**

**#1596**  
**thread lock**

Install the electronics tray, then slide the servo horns onto the servos!

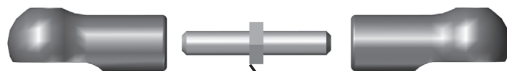


**Racer's Tip:**  
Center servos before horn installation!

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

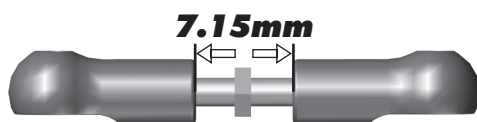
### :: Radio Tray Build - Bag 11.1 - Step 5

#### Throttle Turnbuckle



**8415**  
**3x16mm Turnbuckle**

**81521**  $\Sigma 2$   
**Ball Cup**



**7.15mm**

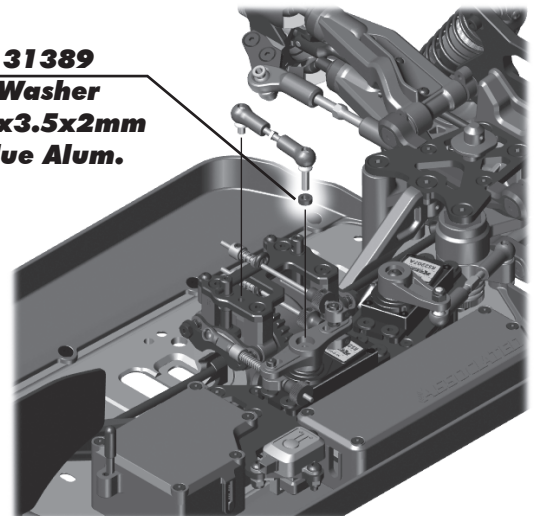


**91048**  
**HD Ballstud, 8mm Long**



**91049**  
**HD Ball Stud, 10mm**

**31389**  
**Washer 7.8x3.5x2mm Blue Alum.**



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

Engine  
not included!

**81372**  
**Flywheel**  
**Nut**

**81371**  
**Flywheel**  
**Collet**

**81370**  
**Flywheel,**  
**4-Shoe**

### Racer's Tip:

Use a small amount  
of blue threadlock on  
the crank, do not get  
it into the bearing!

See next step for  
clutch shoe/spring  
installation order!

**81373 X4**  
**Clutch**  
**Shoe Pins**

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

Clutch Shoe / Spring Installation Order:



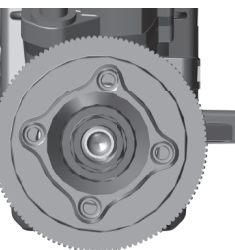
Short end of clutch shoe spring  
installed into flywheel.  
Long end of clutch shoe spring  
installed into clutch shoe.

**81402**  
**Clutch**  
**Shoe,**  
**Composite**

**81366**  
**Clutch Shoe**  
**Spring, Green,**  
**0.95mm**

**81375**  
**Clutch Shoes,**  
**Hard, 4-Shoe**  
**Aluminum**

**81367**  
**Clutch Shoe**  
**Spring, Gold,**  
**1.0mm**



**81367**  
**Clutch Shoe**  
**Spring, Gold,**  
**1.0mm**

**81375**  
**Clutch Shoes,**  
**Hard, 4-Shoe**  
**Aluminum**

**81366**  
**Clutch Shoe**  
**Spring, Green,**  
**0.95mm**

**81402**  
**Clutch**  
**Shoe,**  
**Composite**

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

Clutch shimming instructions:

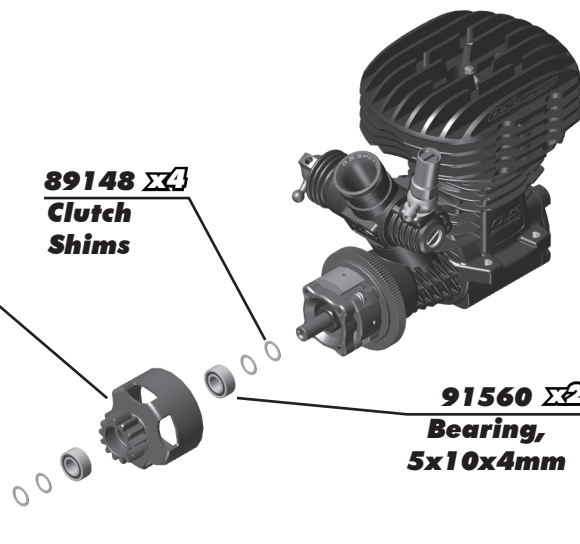
- Build assembly with shims as shown
- If clutch bell does not spin freely:  
Move shim from behind clutch  
bell to in front of clutch bell
- OR-  
Remove one shim from front of  
clutch bell
- Recommended axial play in  
clutch bell = 0.2mm - 0.5mm

**89148 X4**  
**Clutch**  
**Shims**

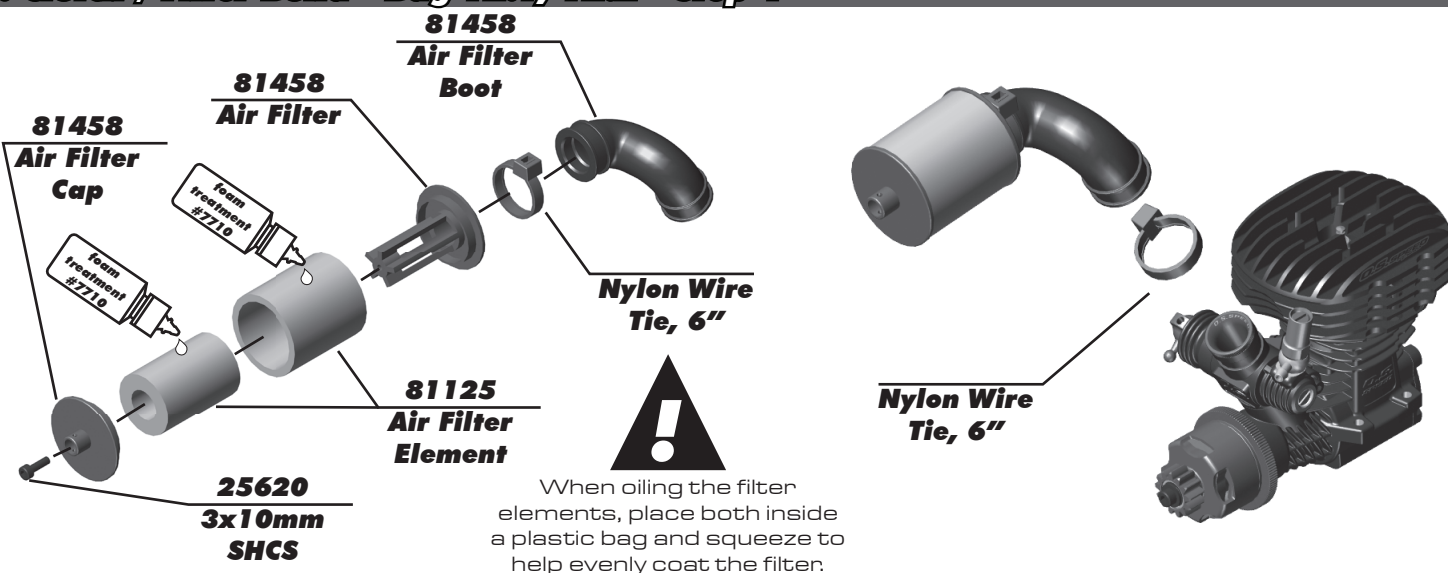
**81374**  
**Clutch Bell,**  
**13T, Vented,**  
**4-Shoe**

**41089**  
**3x6mm**  
**LP SHCS**

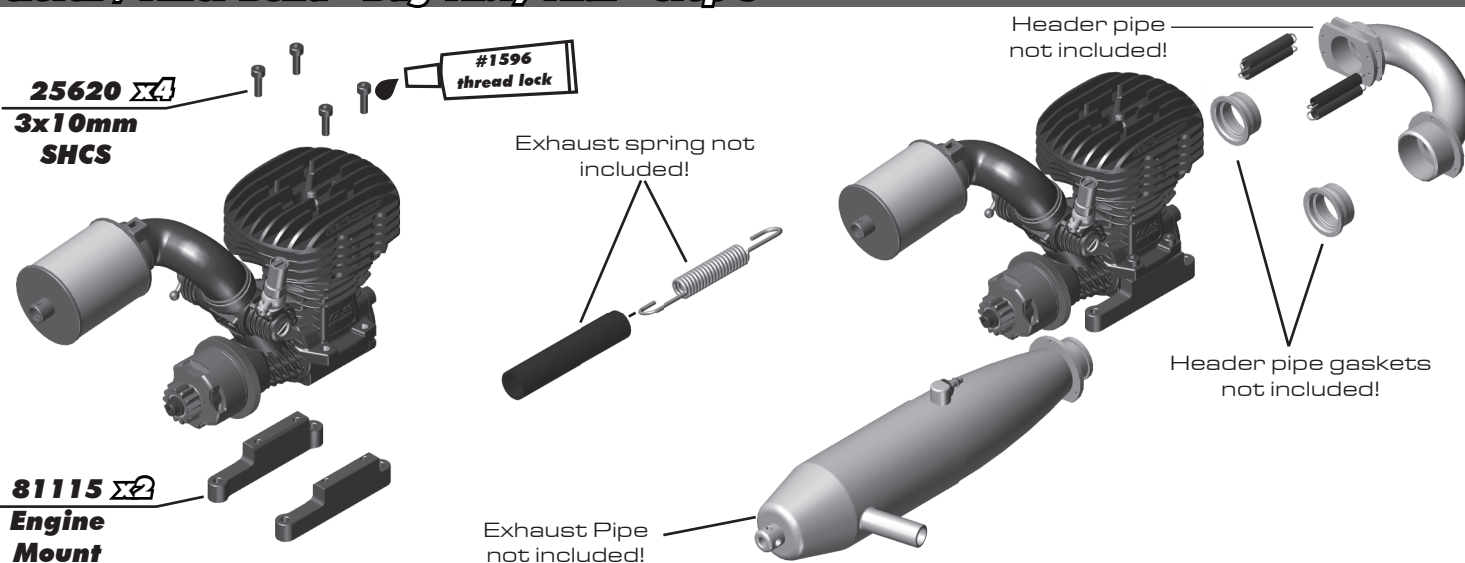
**91560 X2**  
**Bearing,**  
**5x10x4mm**



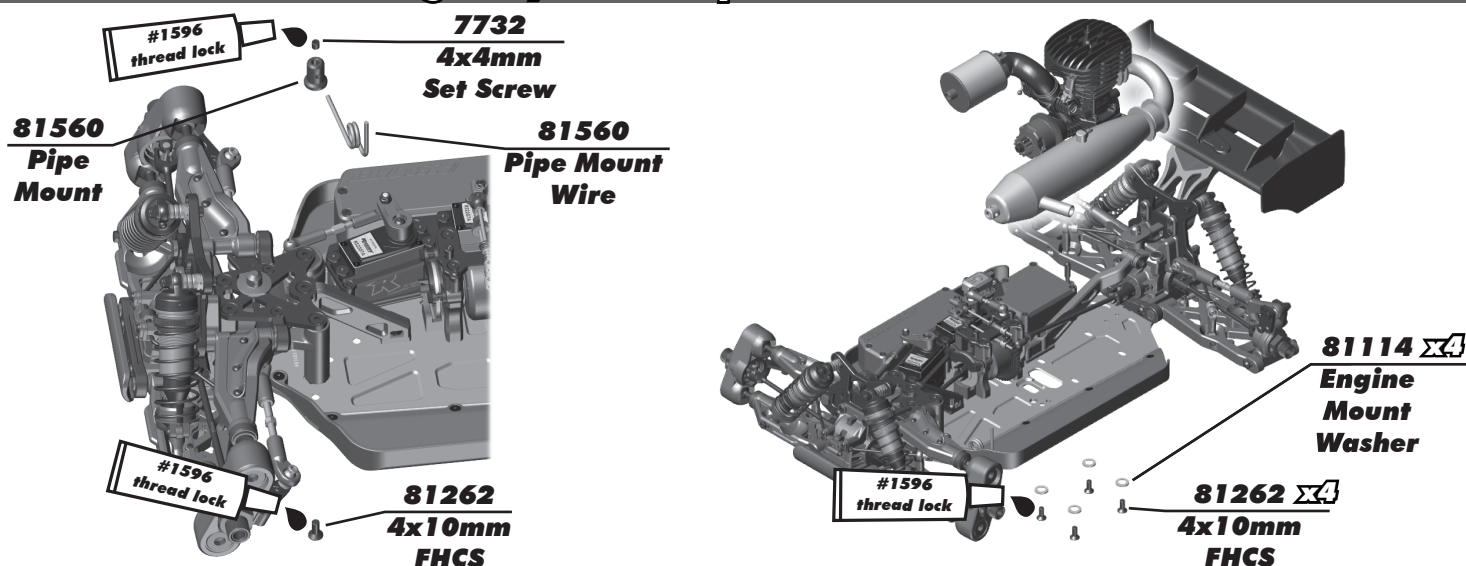
## :: Clutch / Filter Build - Bag 12.1, 12.2 - Step 4



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



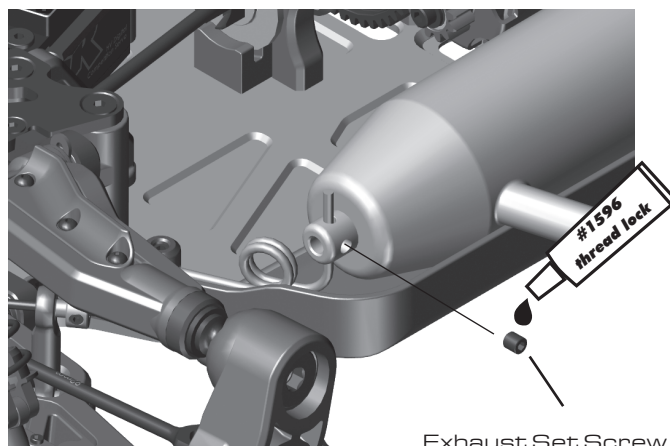
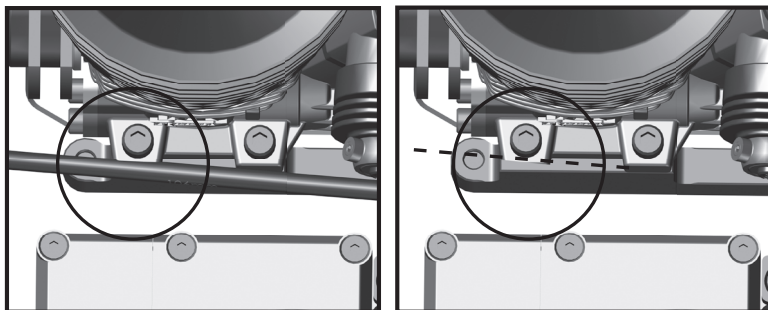
## :: Clutch / Filter Build - Bag 12.1, 12.2 - Step 6



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

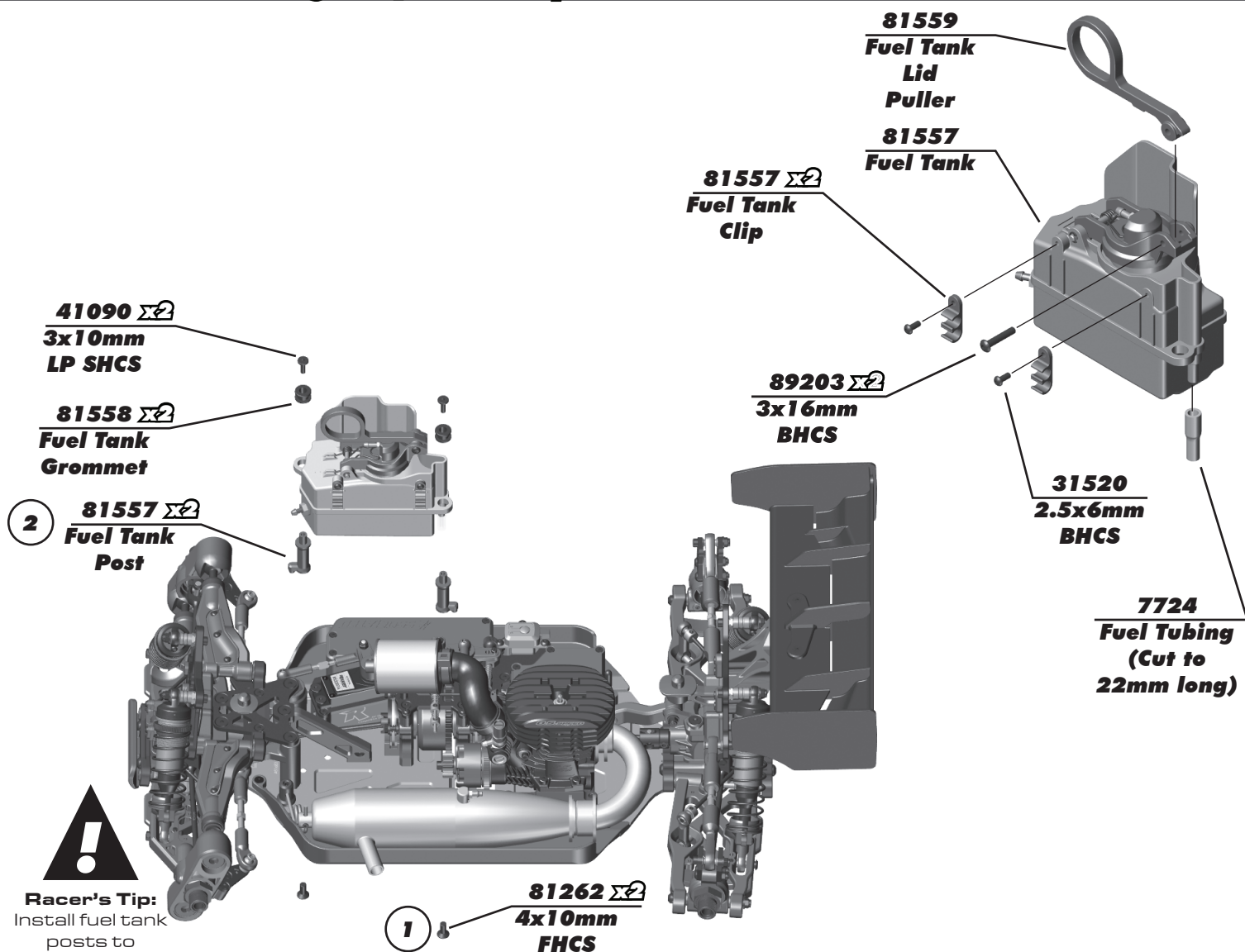


When installing your engine, make sure the rear drive shaft does not interfere with the engine block. You may need to remove material from the engine block for fitment.



Exhaust Set Screw not included!

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

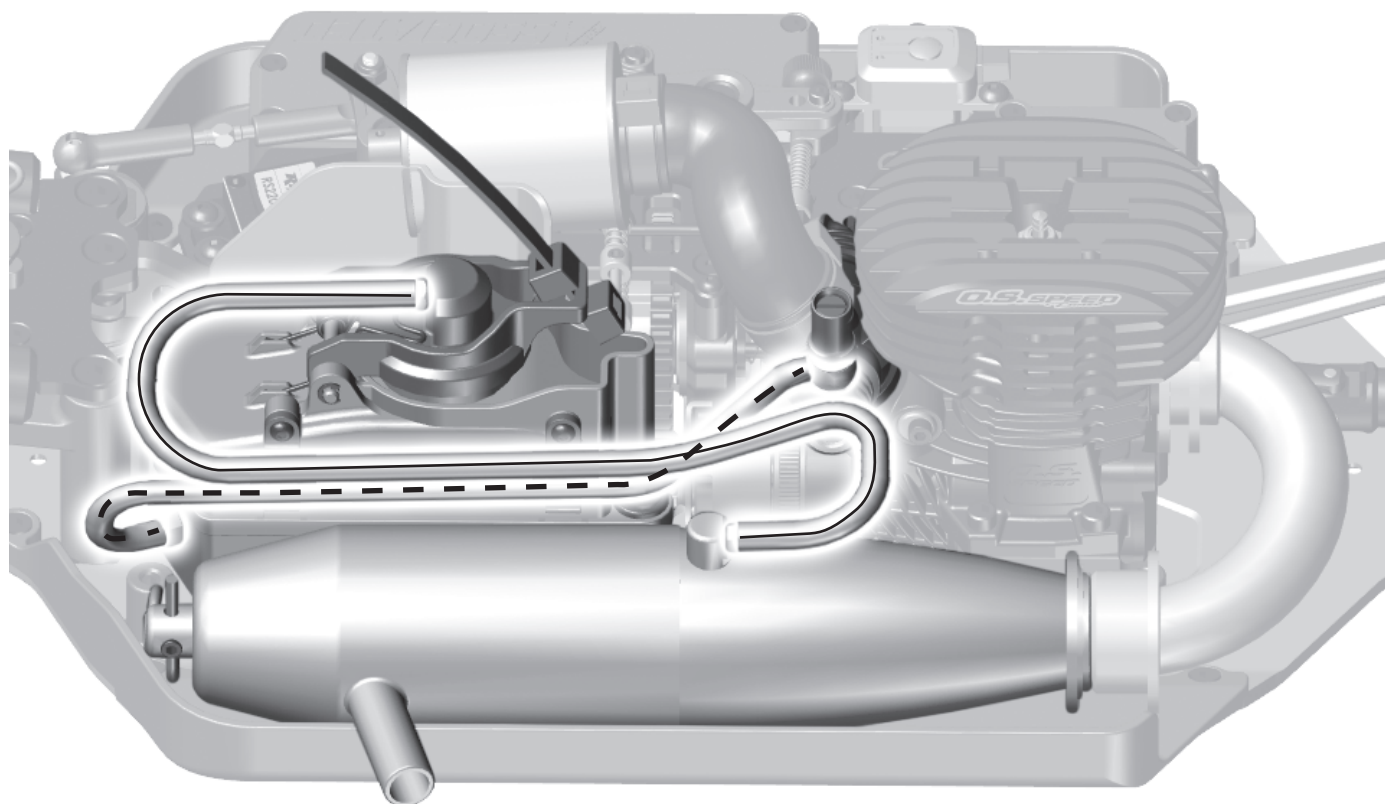


**Racer's Tip:**  
Install fuel tank posts to chassis before installing the fuel tank.

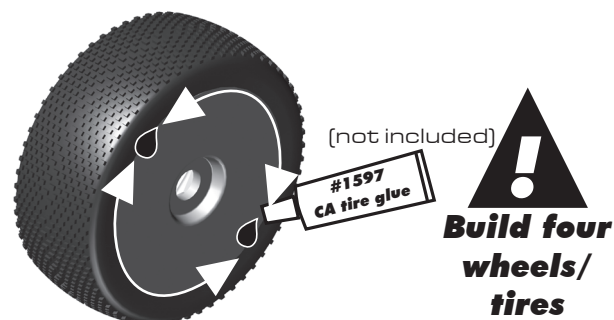
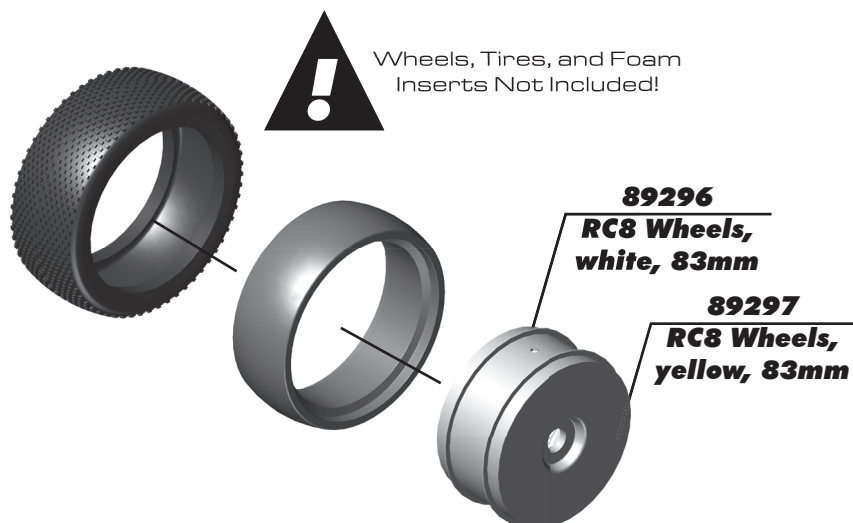
## :: Fuel Tank Build - Bag 13.1, 13.2 - Step 2

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

**Fuel line from fuel  
tank to carburetor**



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



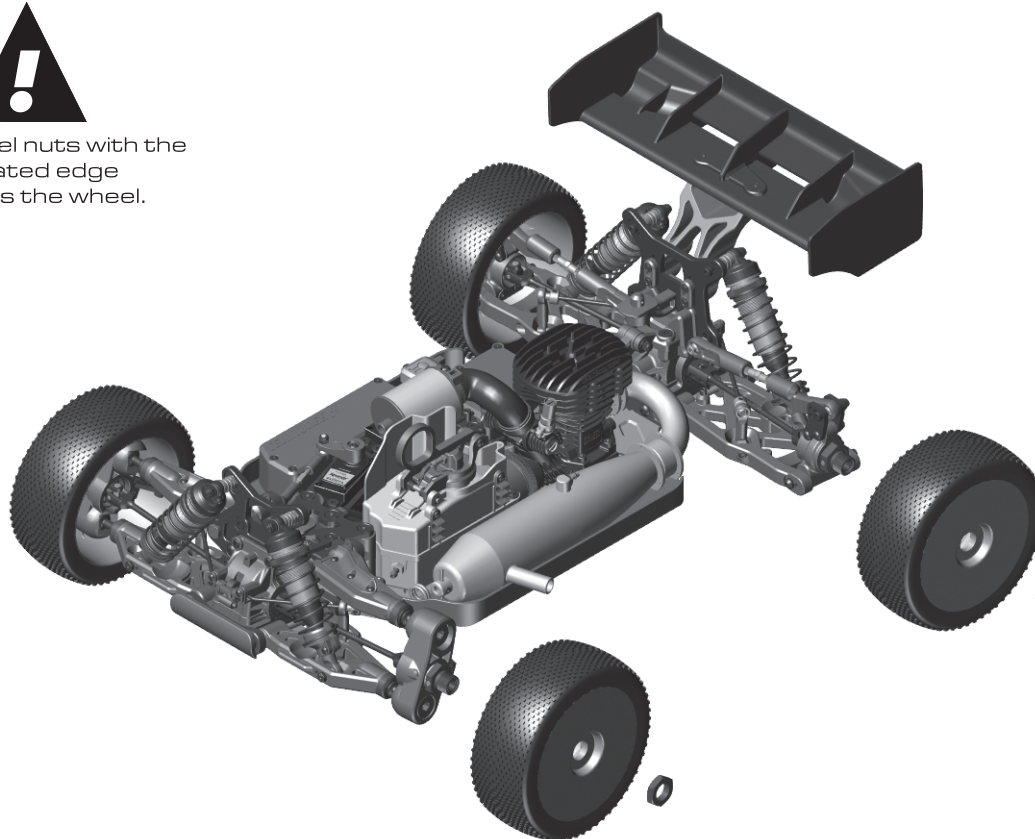
### **Tires:**

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 X4**  
**Wheel Nuts,**  
**17mm**  
**(Blue)**

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



Final chassis ride height.  
Front = 23mm  
Rear = 26mm

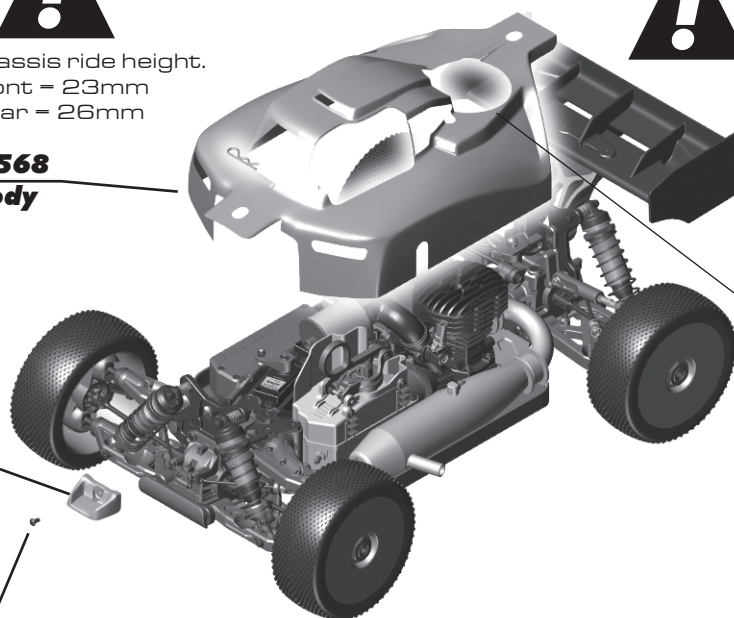
**2208 X2**  
**Body Clip**

**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!



Kit RWB chassis uses the rear engine, tuning, and exhaust cutouts. Please check before trimming as your engine / pipe may vary.

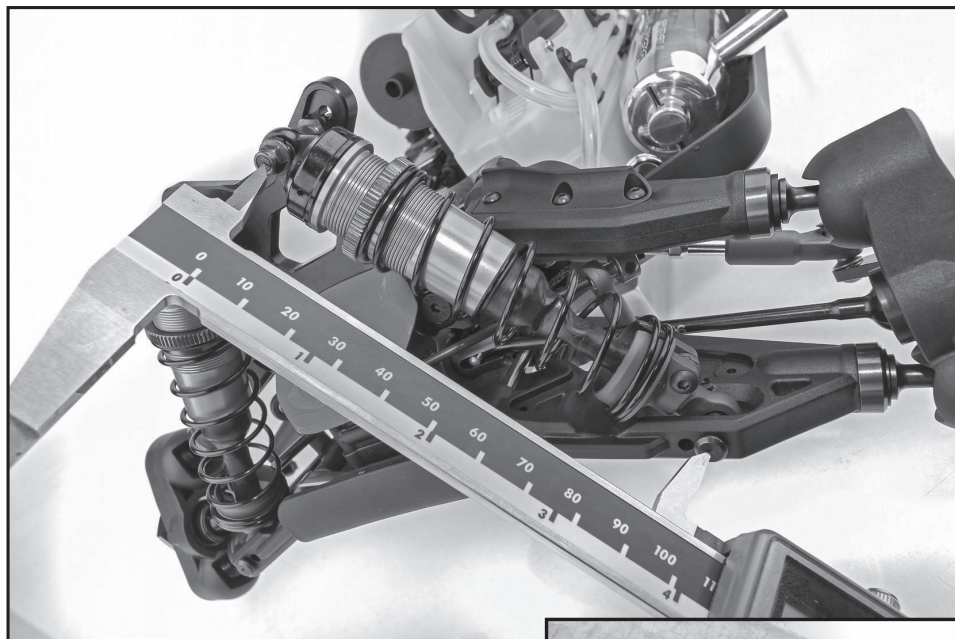
## :: Droop Settings

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 101 mm shock length, and 126 mm shock length for the rear "C" hole.

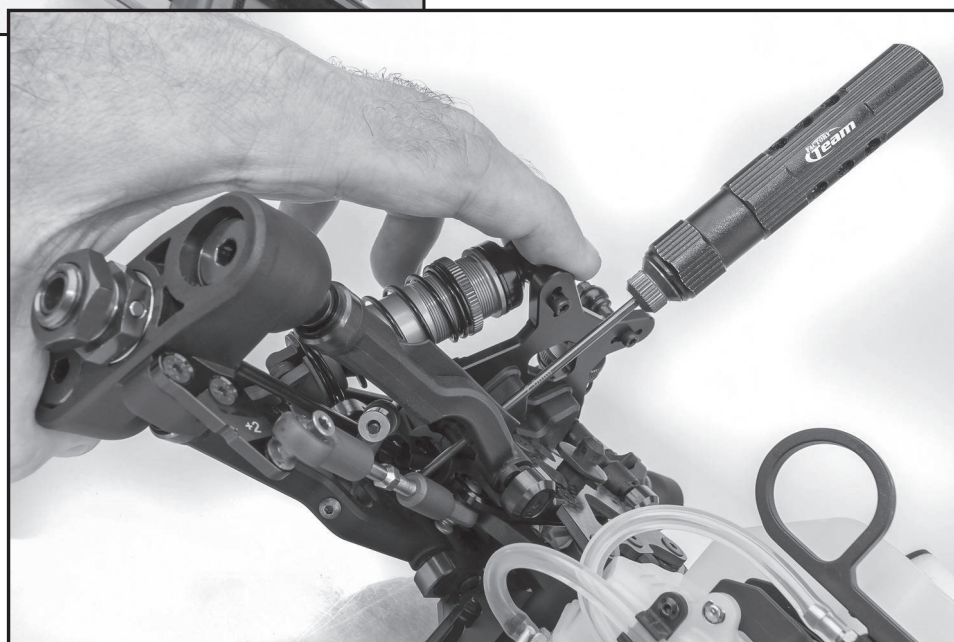
If the shock length is too long, adjust by turning the droop screws clockwise.

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



### Racer's Tip:

Use 123 mm for the middle "B" rear arm hole, and +2 or 0 eyelet.



**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.



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