



RC8B4.1



#80949 RC8B4.1 TEAM KIT

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



CHAMPIONS *by* DESIGN

AssociatedElectrics.com



:: 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 RC8B4.1 Kit:

- New RC8B4.1 RWB chassis and side guards with tapered chassis design to increase stiffness and predictability
- New low CG and lightweight aluminum front and rear shock towers
- New shorter 16mm front and rear shock bodies for lower CG and lighter weight
- New 6-hole 1.4mm front and 1.5mm taper rear machined shock pistons included with emulsion shock cap seals
- New 3-hole rear suspension arms with updated rear anti-roll bar geometry for both smooth and bumpy tracks
- New durable rear hub design with wide footprint base, and tuneable 3mm carbon fiber hub towers
- New blue aluminum front upper arm mount for added durability
- New molded RC8B4.1 front bumper with optimized profile for bumpy transitions
- New 47T machined spur gear
- 13-44 Ring and Pinion Bevel Gear Set
- 92mm universal driveshafts with 17mm outdrives
- Updated Soft Blend suspension arms for maximum durability in cold weather
- New +1 aluminum steering block arms for sharper steering on low grip
- Innovative new pivot ball front suspension geometry improves steering balance / provides predictable handling in all conditions
- RC8B4 8° steering blocks are paired with a wider upper suspension arm pivot for increased stability and consistent steering through the entire steering throw
- RC8B4 gearboxes are included in the latest hard material used on RC8T4:
 - Front gearbox features a 3.5° inclined pinion gear angle to straighten the center driveshaft for increased drivetrain efficiency and reduced phasing and vibration
 - Both gearboxes feature large flanged bearings resulting in longer life of bearings and ring and pinion gears
- Latest version RC8B4 fuel tank with:
 - Flexible rubber lid puller
 - Updated spring for tight seal between lid and tank
- RC8B4 rear chassis brace has several design features and flex options:
 - Rear brace is mounted centrally to the gearbox, and has 2 two screw locations through the chassis to tune flex
- RC8B4 front upper suspension arms, now in soft blend material
 - Includes an optional molded "wing" insert for increased front-end downforce
- RC8B4 front lower suspension arms, now in soft blend material
 - Optional arm inserts mount to the top only
- RC8B4 rear wing mount has adjustable wing angle shims, significant strength improvements, an aerodynamic shape, and extra clearance for shock position adjustment
 - Two wing height options on the rear shock tower.

:: Additional

Your new RC8B4.1 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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 21062 Bake Parkway
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Customer Service
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:: Hardware - 1:1 Scale View

Flat Head (fhcs)

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

Socket Head (shcs)

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

Button Head (bhcs)

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

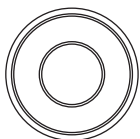
LP Socket Head (lp shcs)

	3x6mm (41089)
	3x10mm (41090)
	3x14mm (41094)
	3x16mm (41093)
	3x20mm (41091)

Set Screws

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

Ball Bearings

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

Nuts (lock/plain)

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

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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.



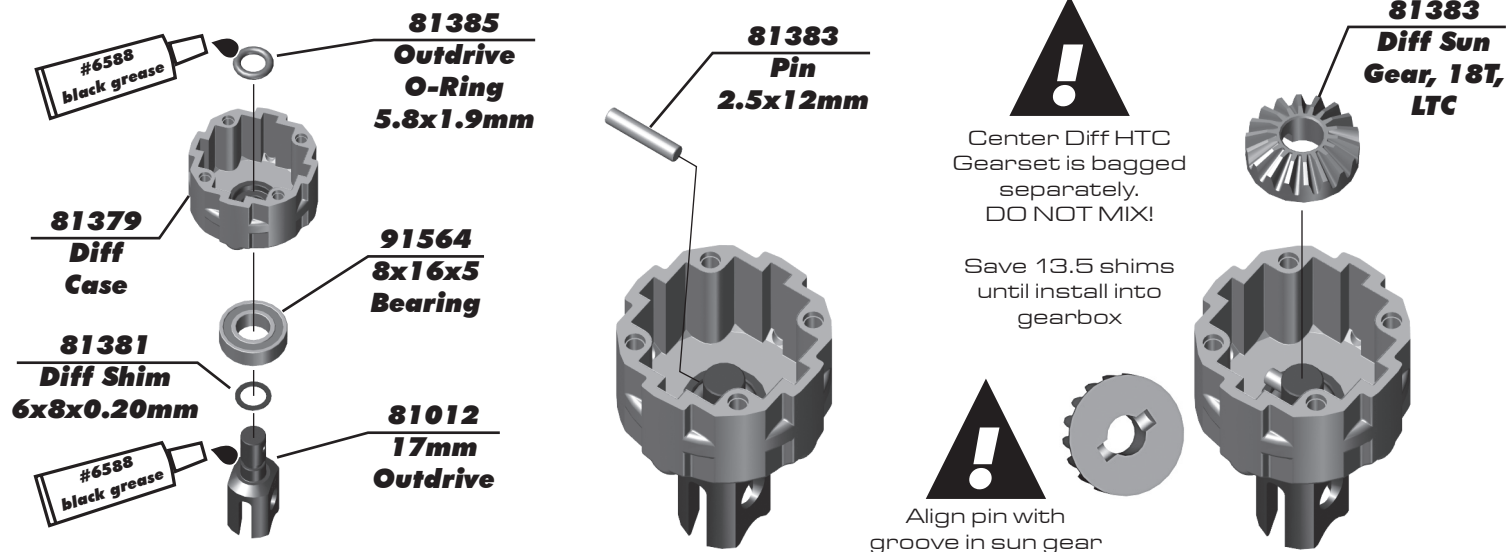
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.

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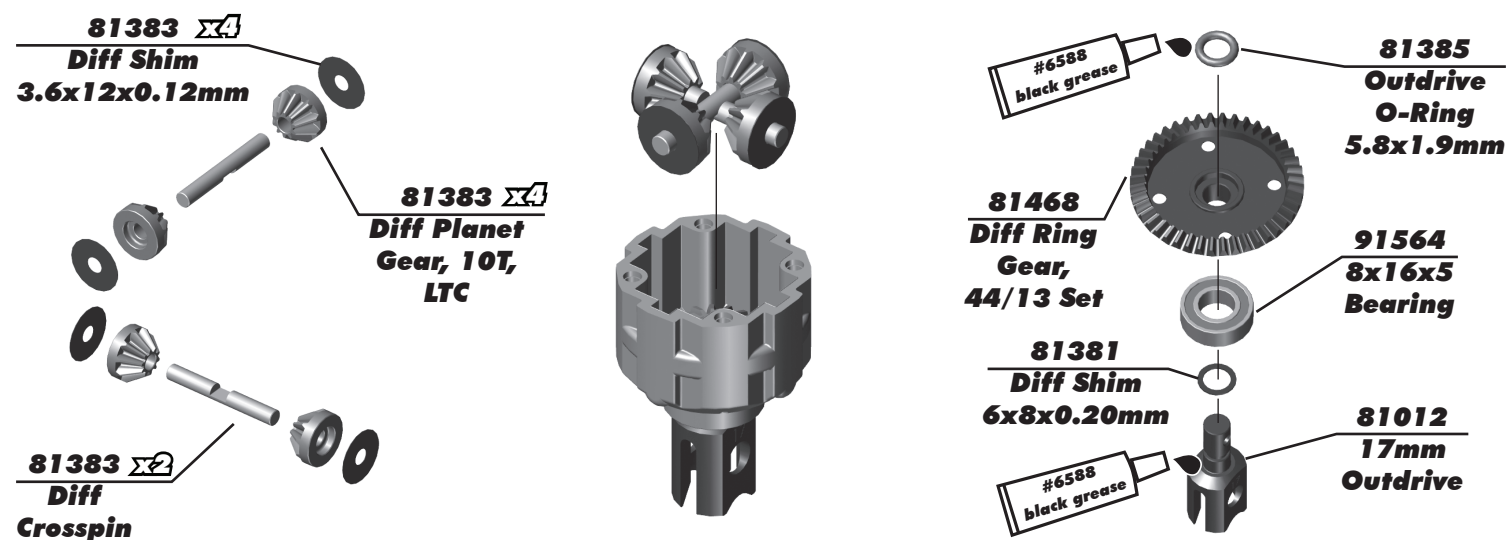


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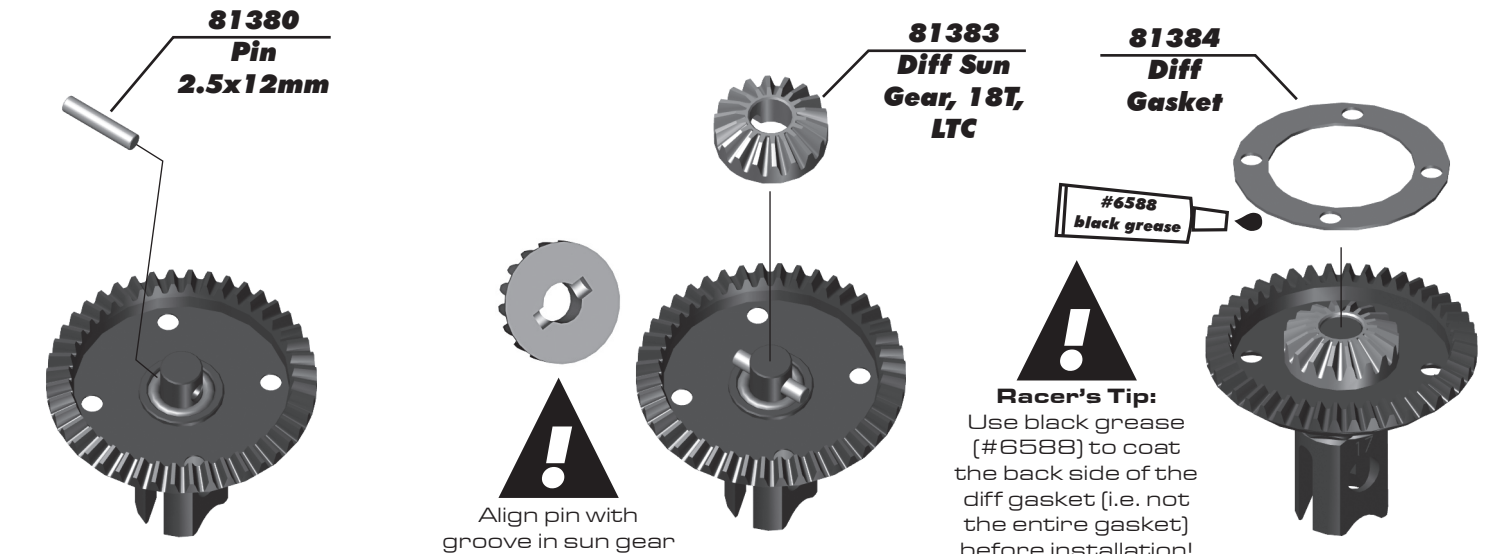
:: Differential Build (Front and Rear) - Bag 1.1, 1.2 - Step 1



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



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

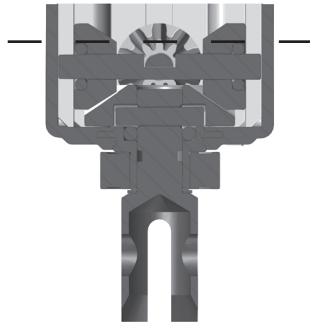


:: Differential Build (Front and Rear) - Bag 1.1, 1.2 - Step 4



Racer's Tip:

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

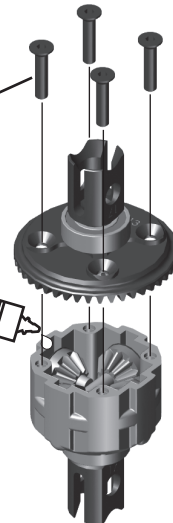


25202 x4
M3x10mm
FHCS

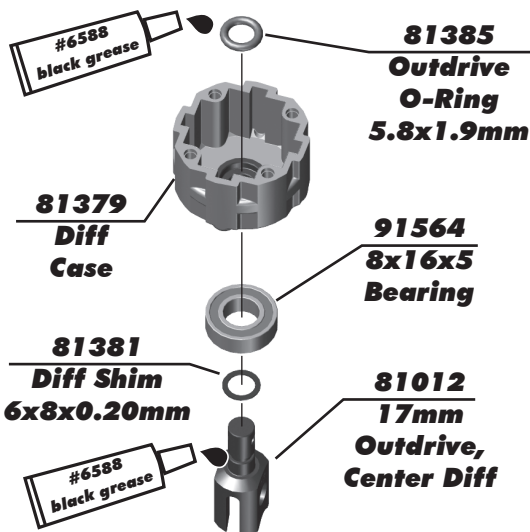


Front Diff Fluid:
15,000cst #5447

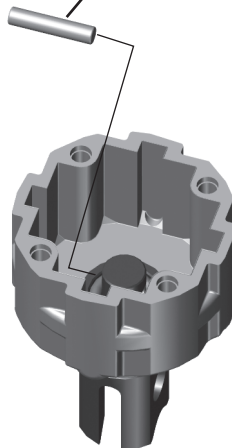
Rear Diff Fluid:
10,000cst #5455



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

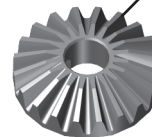


81380
Pin
2.5x12mm

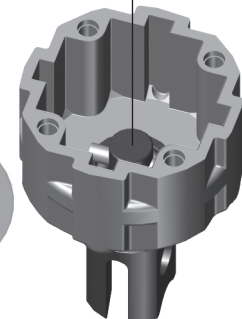


!
Use HTC
Gearset for
center
differential!

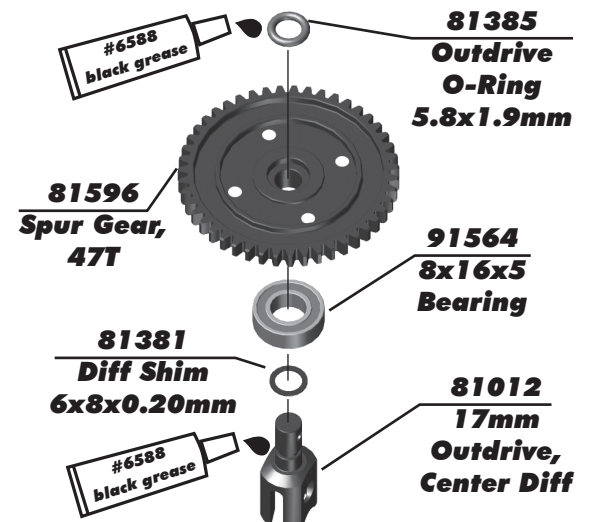
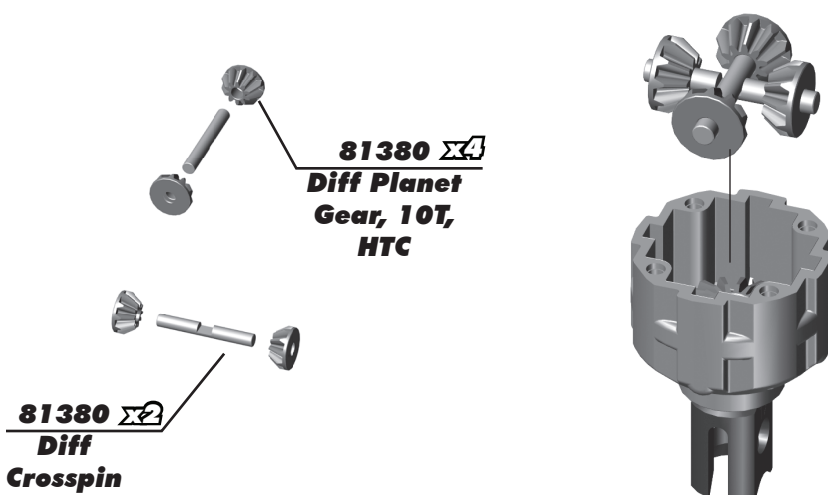
81380
Diff Sun
Gear, 20T,
HTC



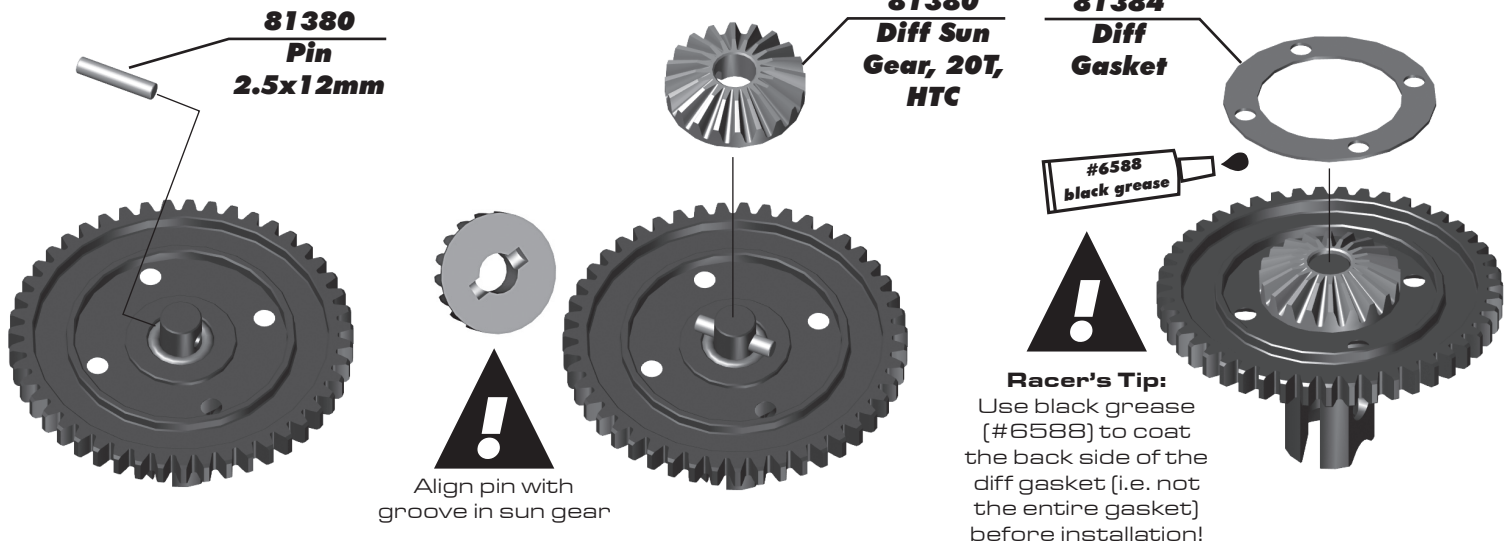
!
Align pin with
groove in sun gear



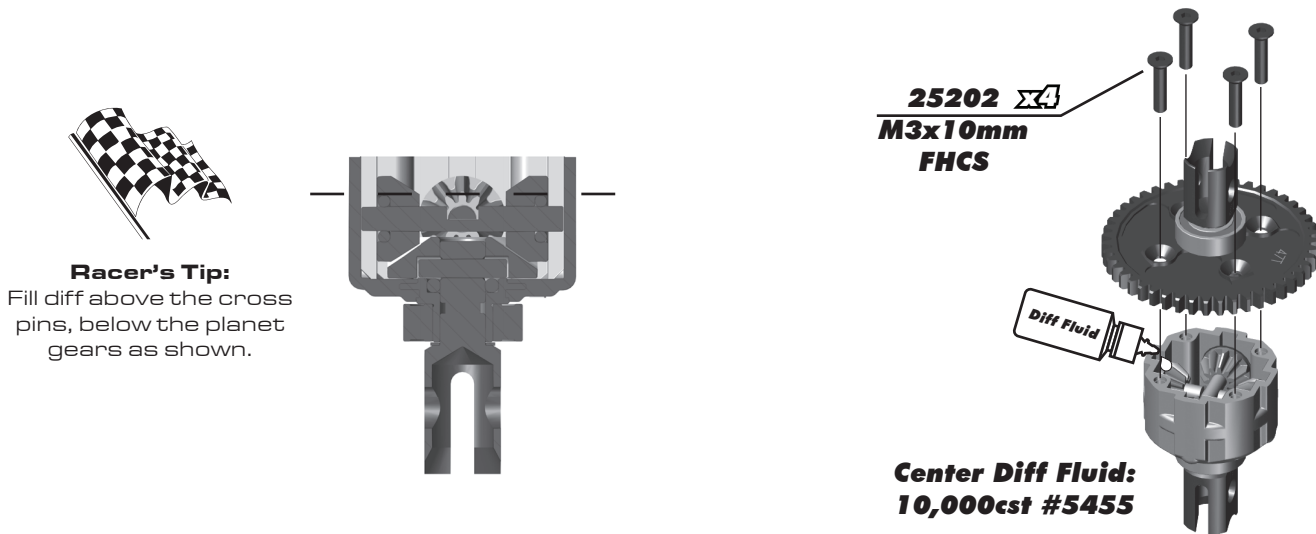
:: Differential Build (Center) - Bag 1.1, 1.2 - Step 6



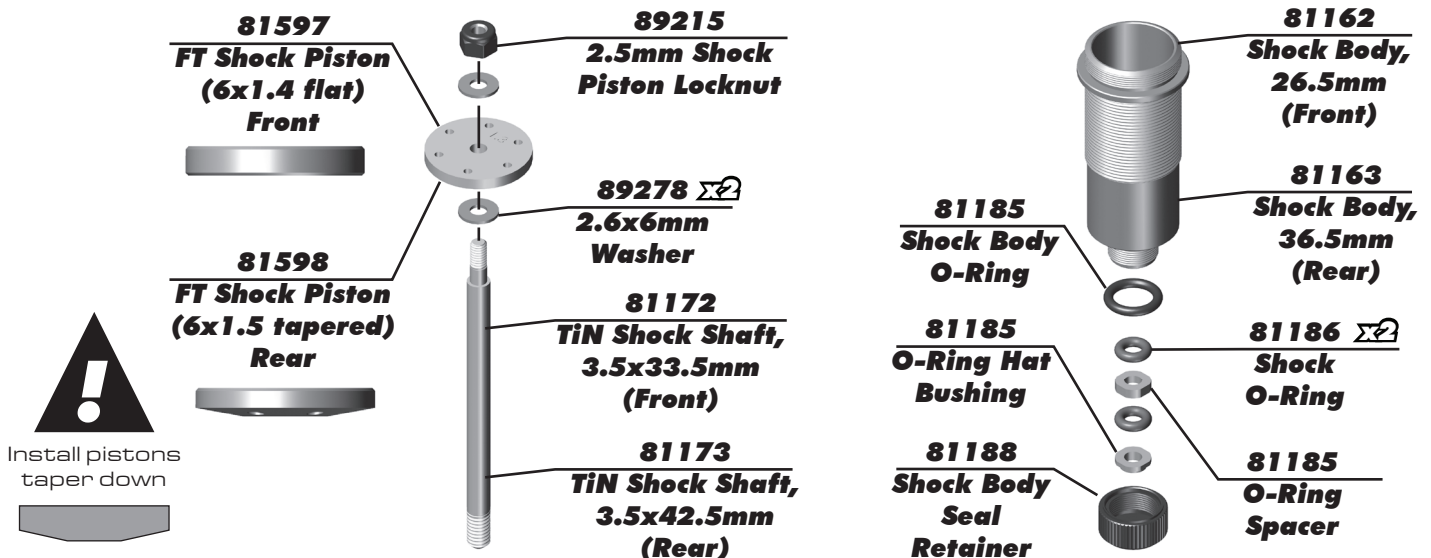
:: Differential Build (Center) - Bag 1.1, 1.2 - Step 7



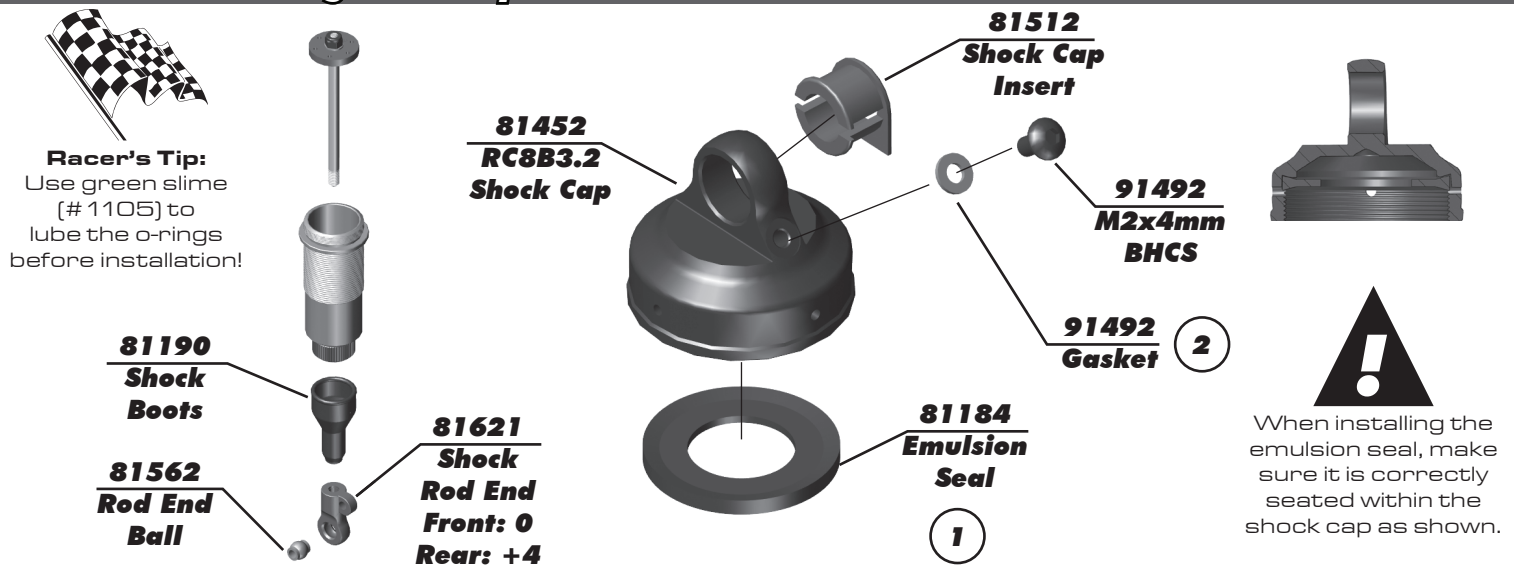
:: Differential Build (Center) - Bag 1.1, 1.2 - Step 8



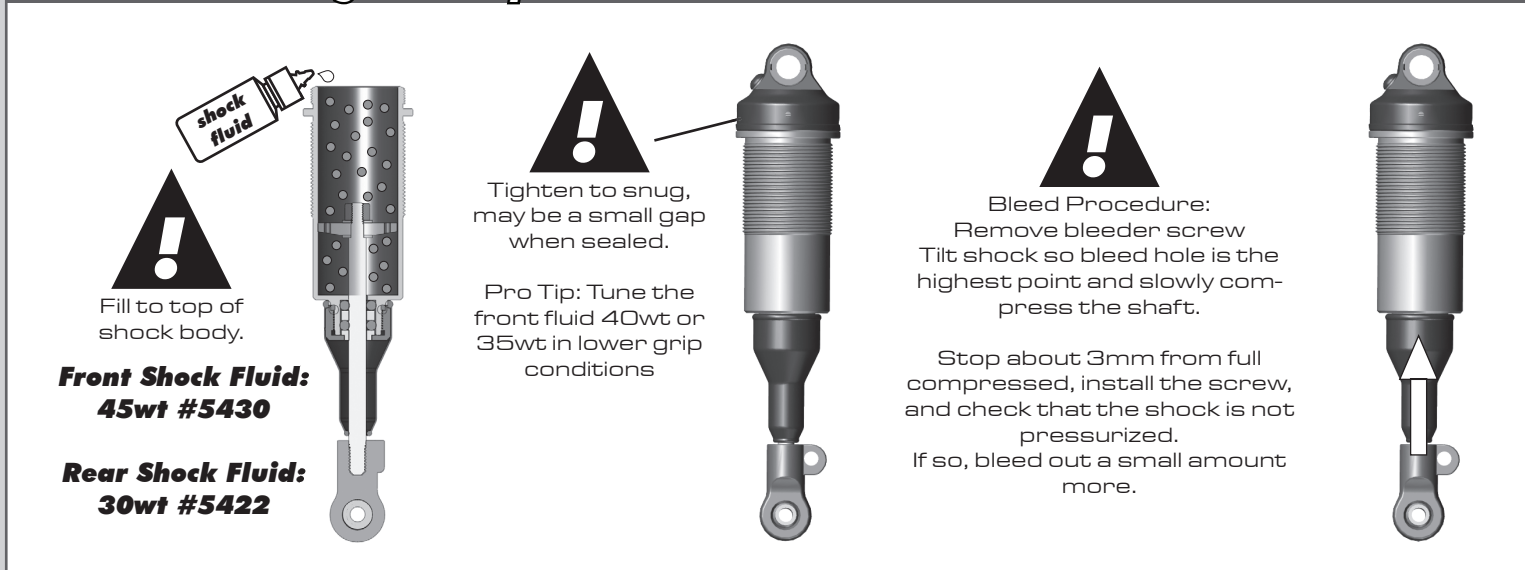
:: Shocks Build - Bag 2.1 - Step 1



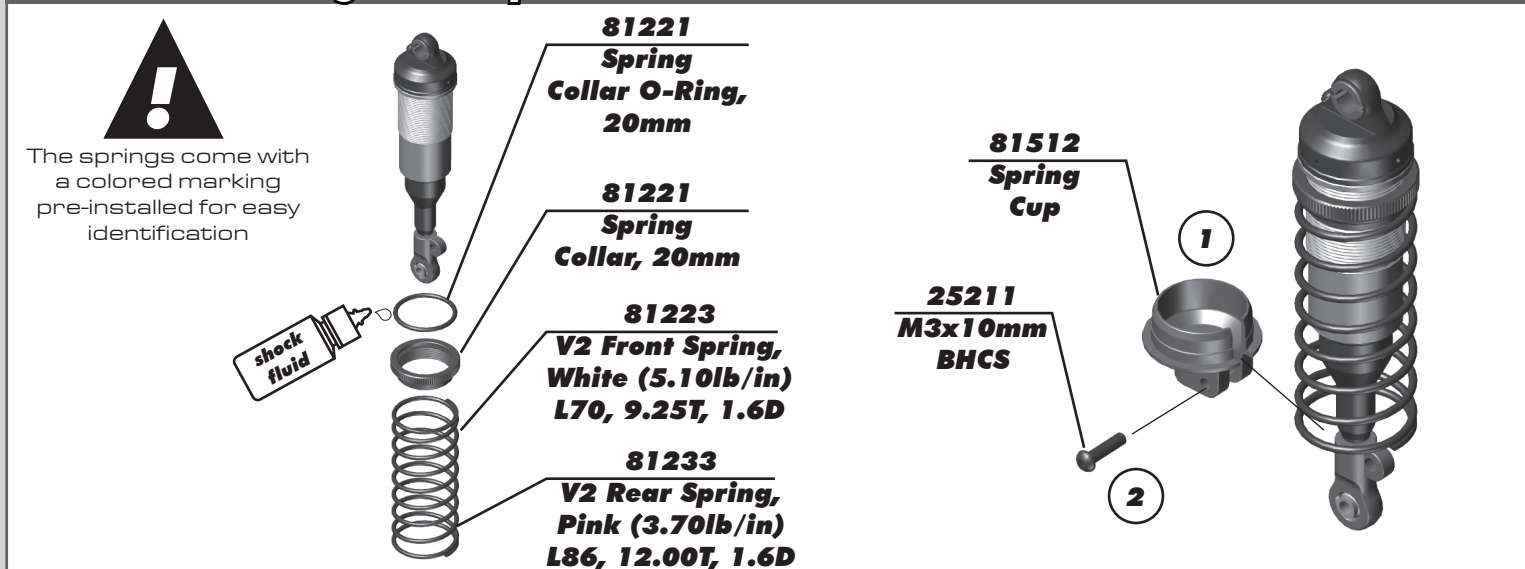
:: Shocks Build - Bag 2.1 - Step 2



:: Shocks Build - Bag 2.1 - Step 3

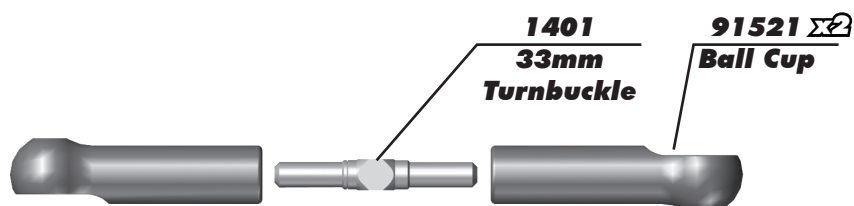


:: Shocks Build - Bag 2.1 - Step 4

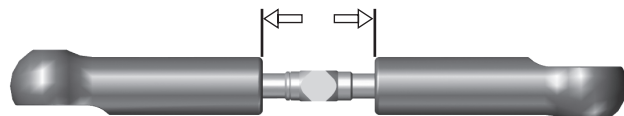


:: Turnbuckles Build - Bag 3.1 - Step 1

Steering Servo Turnbuckle



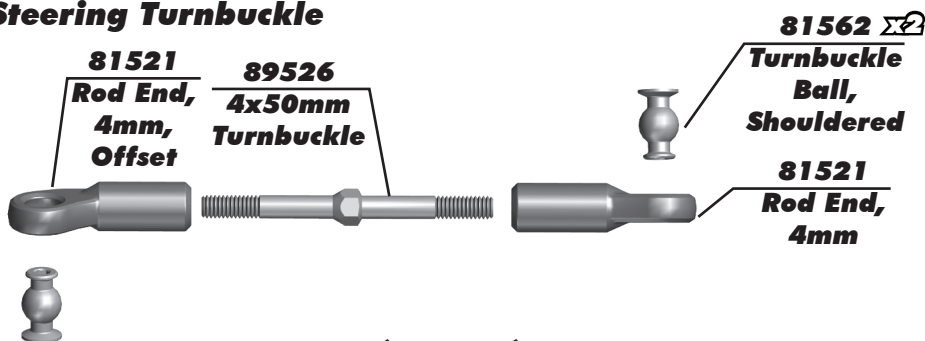
15.00mm (0.59")



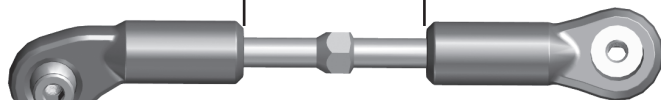
Set aside until page 22

:: Turnbuckles Build - Bag 3.1 - Step 2

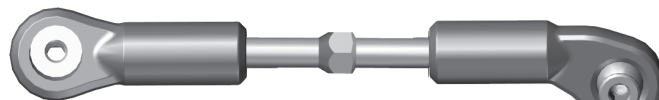
Steering Turnbuckle



24.20mm (0.952")



Left Turnbuckle



Right Turnbuckle

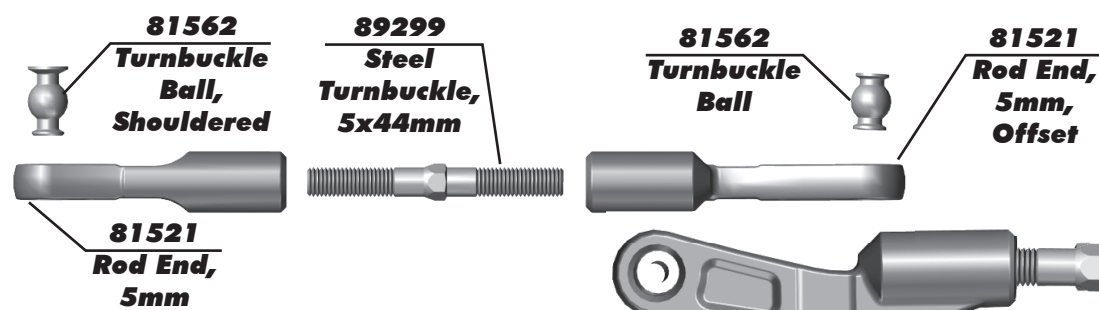
Note the direction of turnbuckle ball



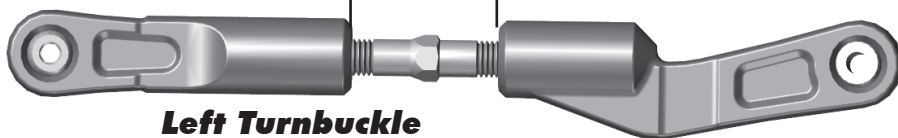
Set aside until page 15

:: Turnbuckles Build - Bag 3.1 - Step 3

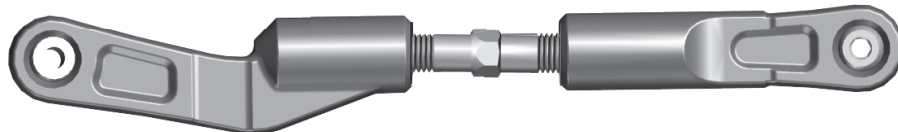
Rear Hub Turnbuckle



19.70mm (0.775")



Left Turnbuckle

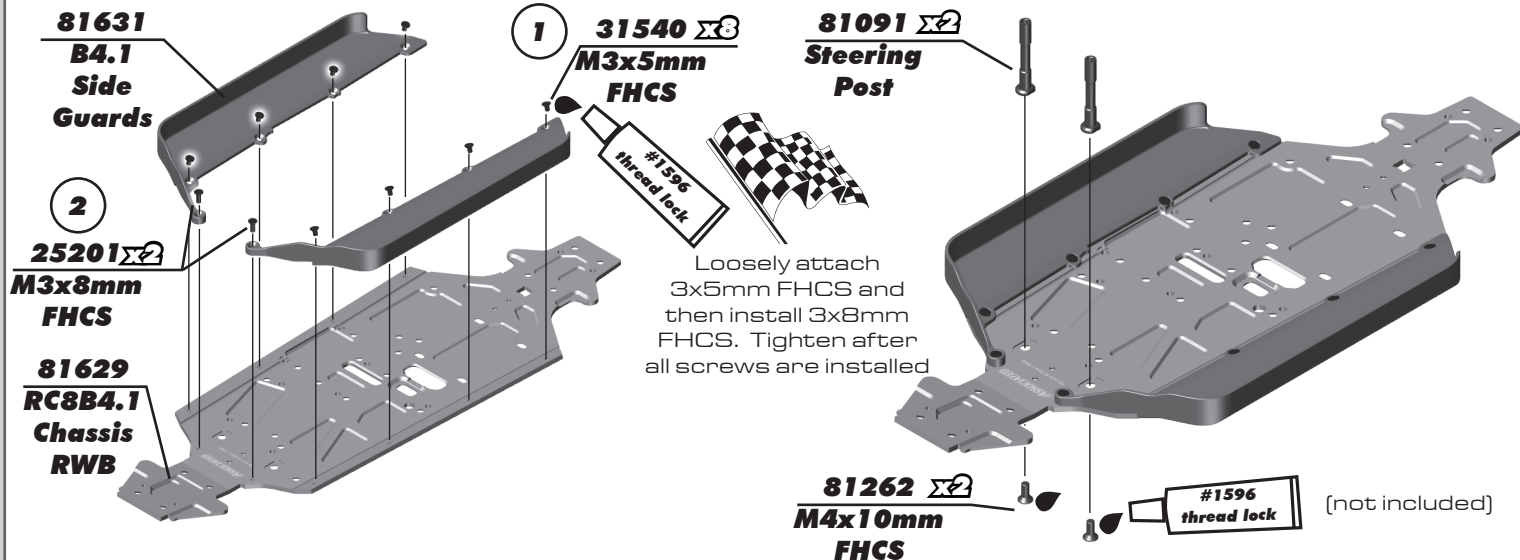


Right Turnbuckle

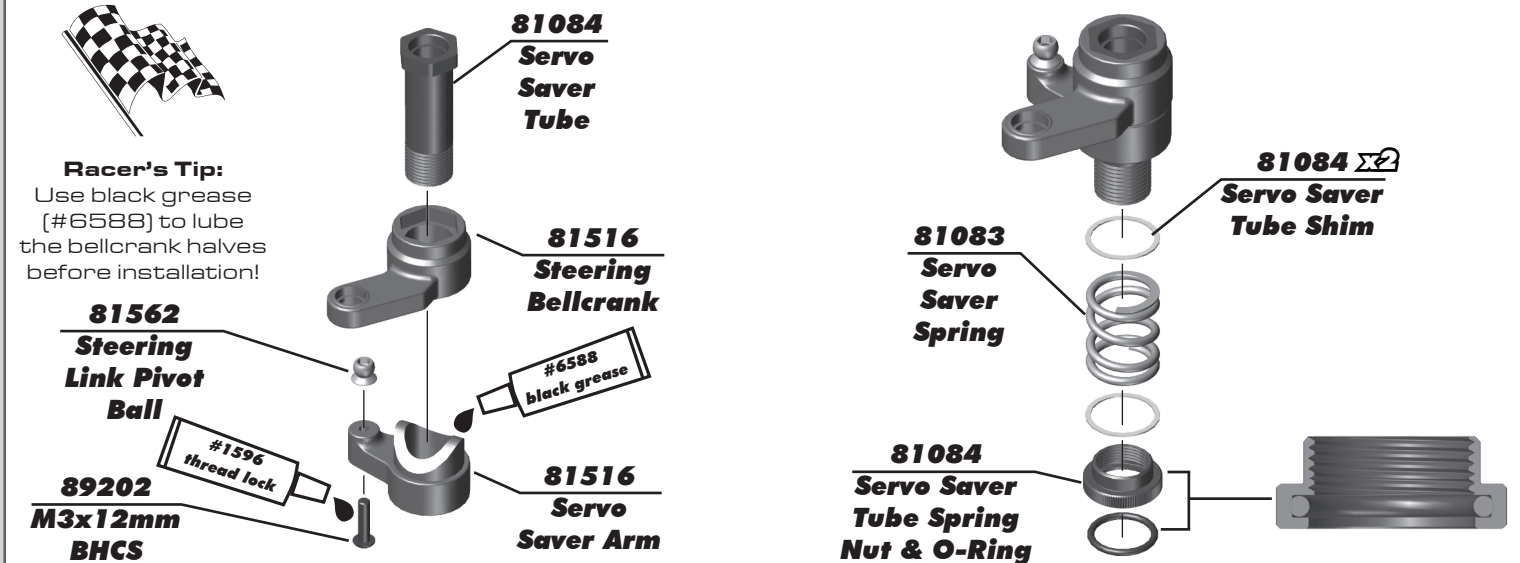


Set aside until page 19

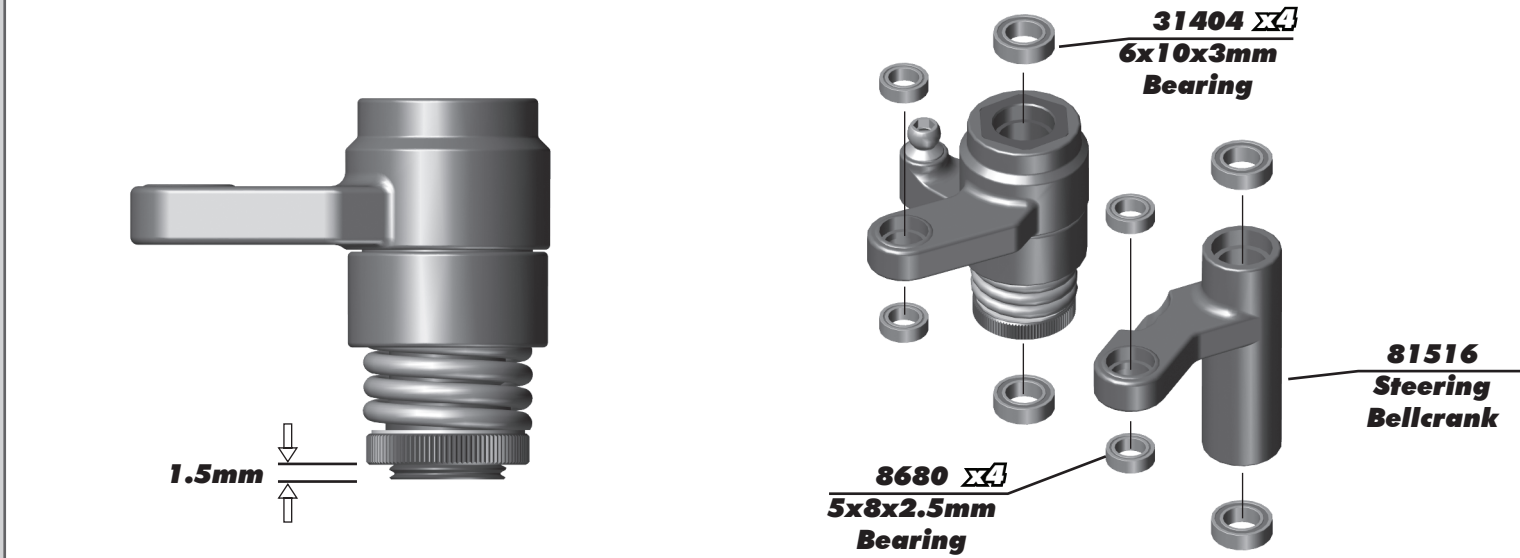
:: Steering / Chassis Build - Bag 4.1 - Step 1



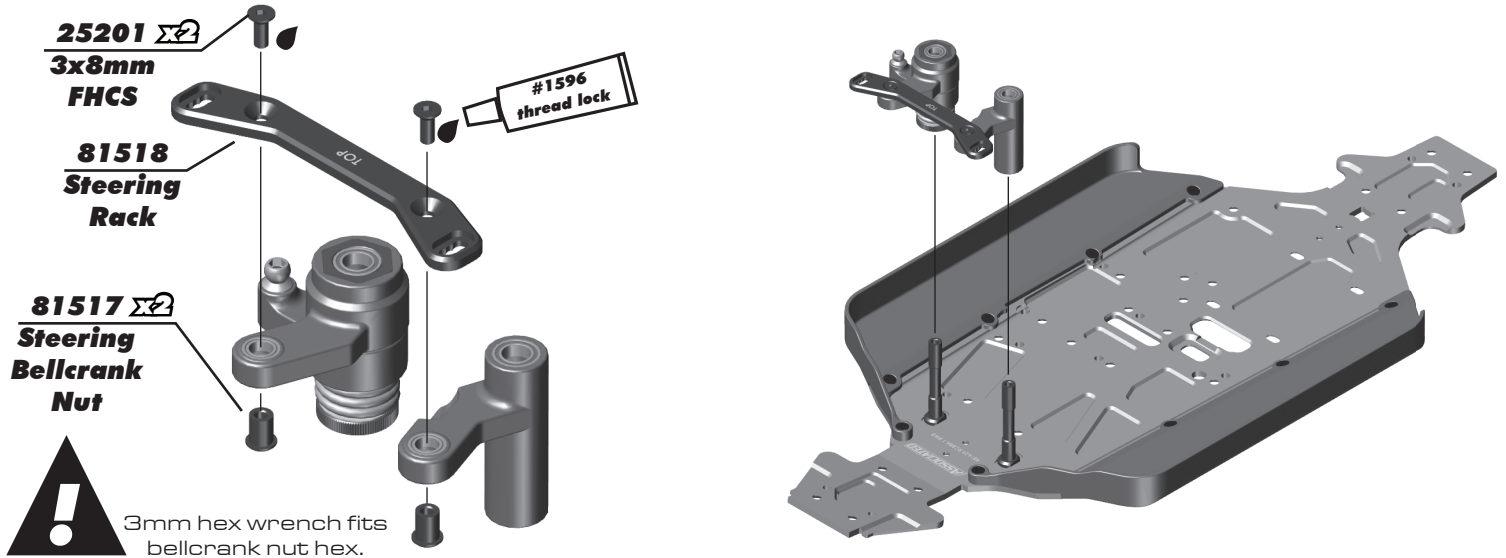
:: Steering / Chassis Build - Bag 4.1 - Step 2



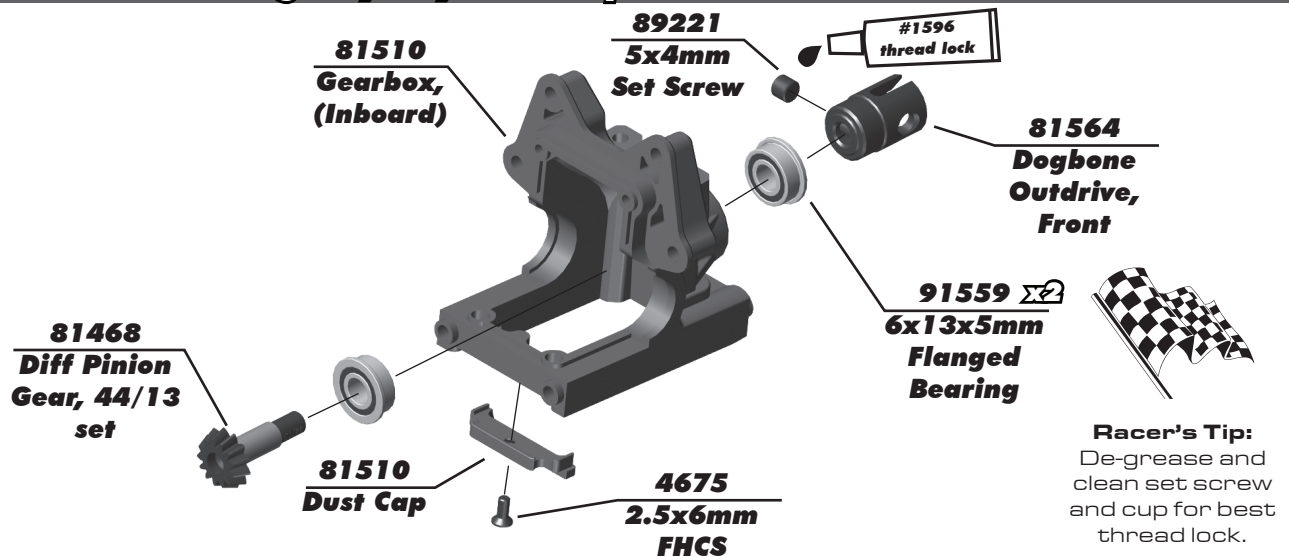
:: Steering / Chassis Build - Bag 4.1 - Step 3



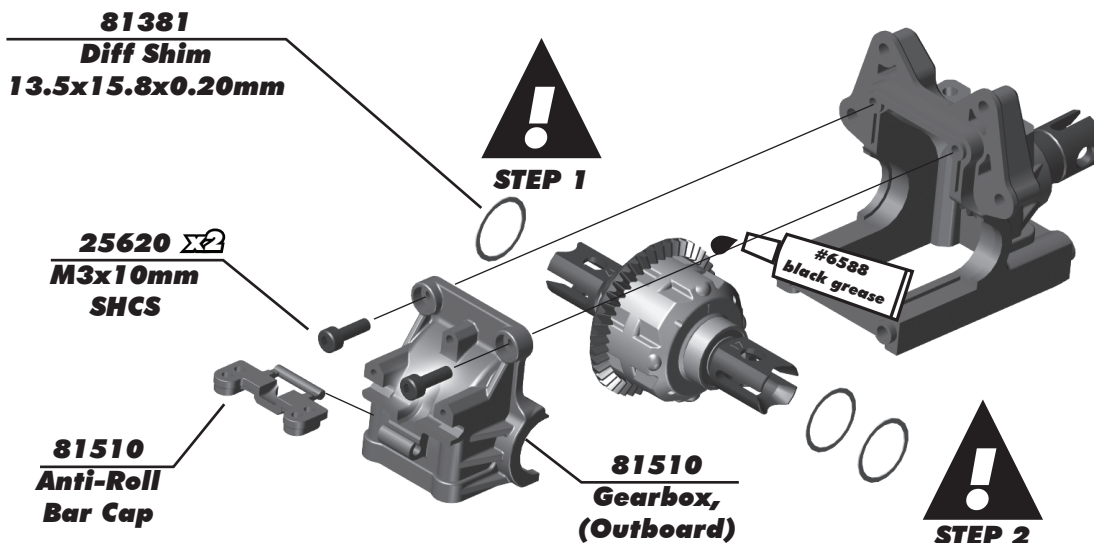
:: Steering / Chassis Build - Bag 4.1 - Step 4



:: 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:



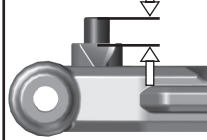
81520 $\Sigma 2$
**Arm Mount
Insert, Center**

81567
**Arm Mount
B**

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

Droop Screw:

Kit Setup:
1.5mm



81566
**Arm Mount
A**

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

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

!
Start here,
adjust to
101mm
shock length.

Build left and right side!

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

81641 $\Sigma 2$
**Hinge
Pin**

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, 2.2mm**

81585
**Anti-Roll
Bar
Collet**

25225
**3x3mm
Set Screw**

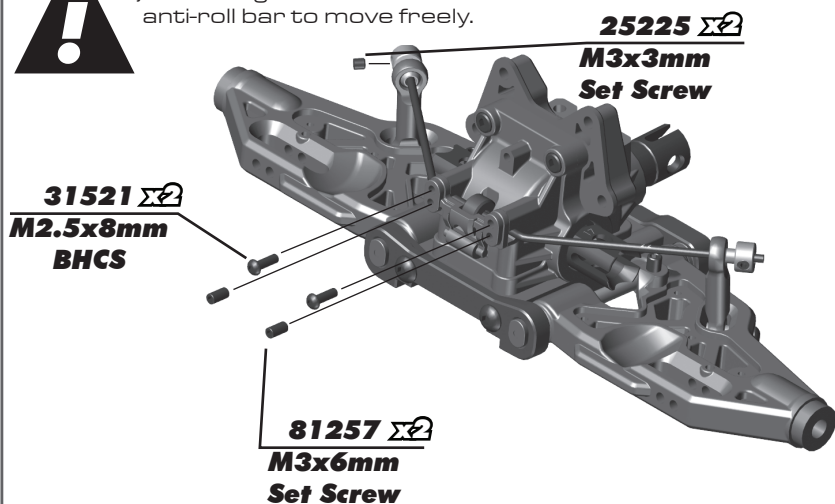
!
Center!

!
Note direction

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

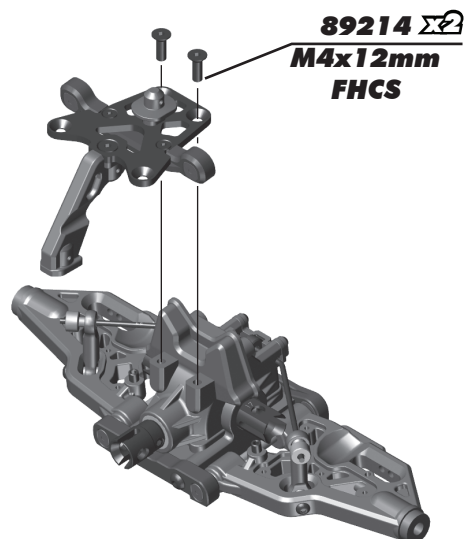
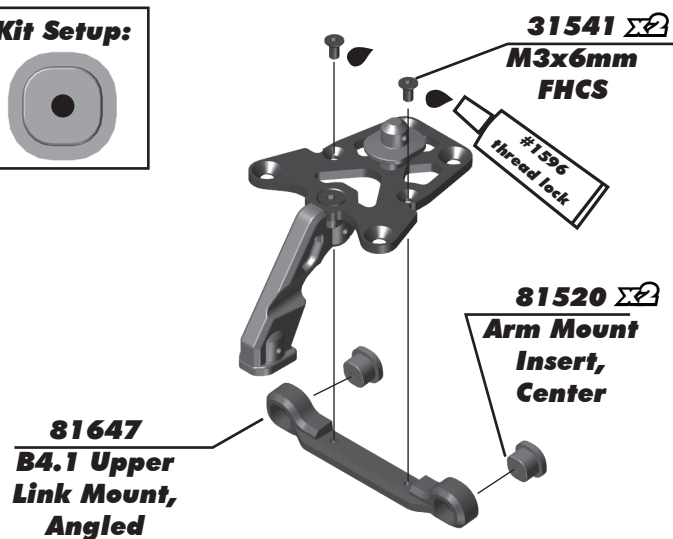


Tighten 3x6mm set screws just enough to still allow the anti-roll bar to move freely.



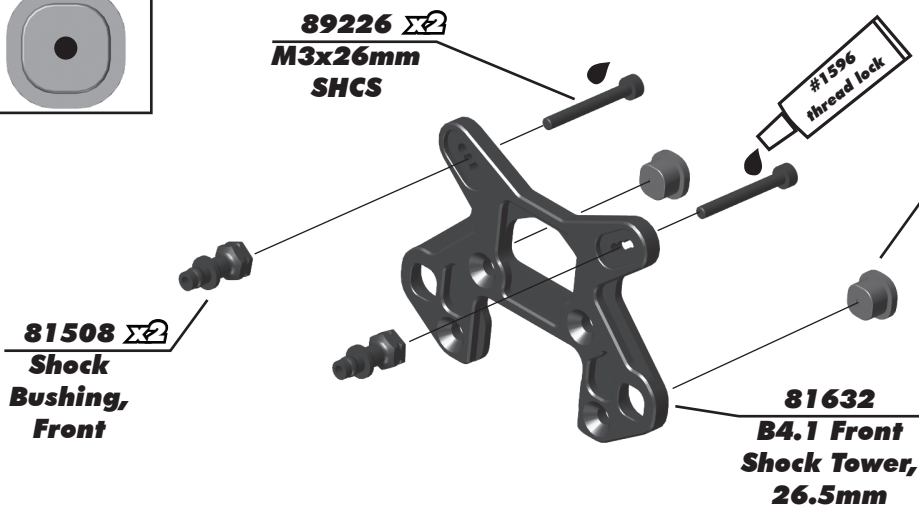
:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 7

Kit Setup:



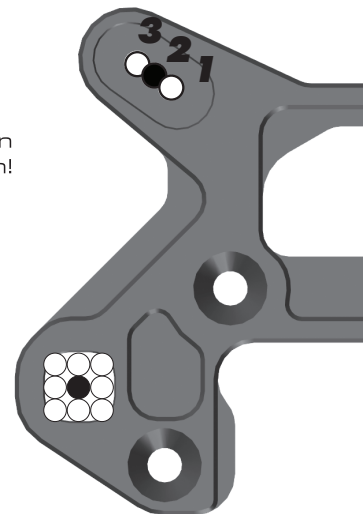
:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 8

Kit Setup:



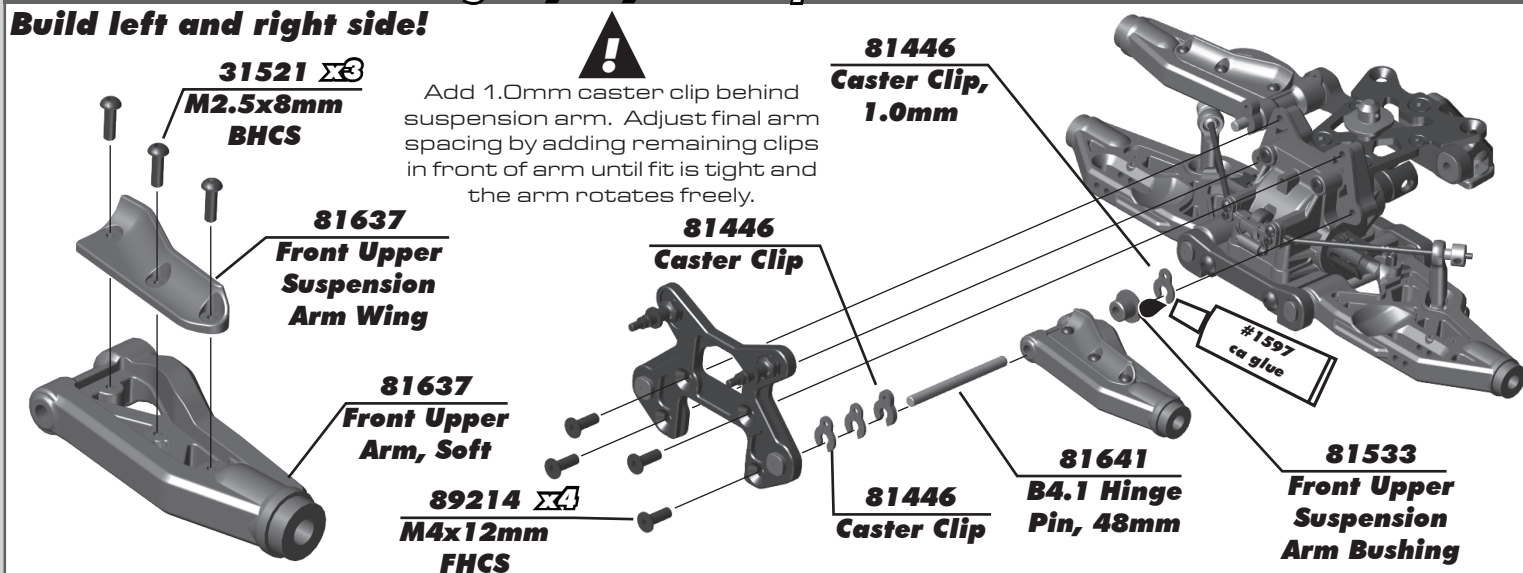
Install arm mount inserts in direction shown!

81520 x2 Arm Mount Insert, Side



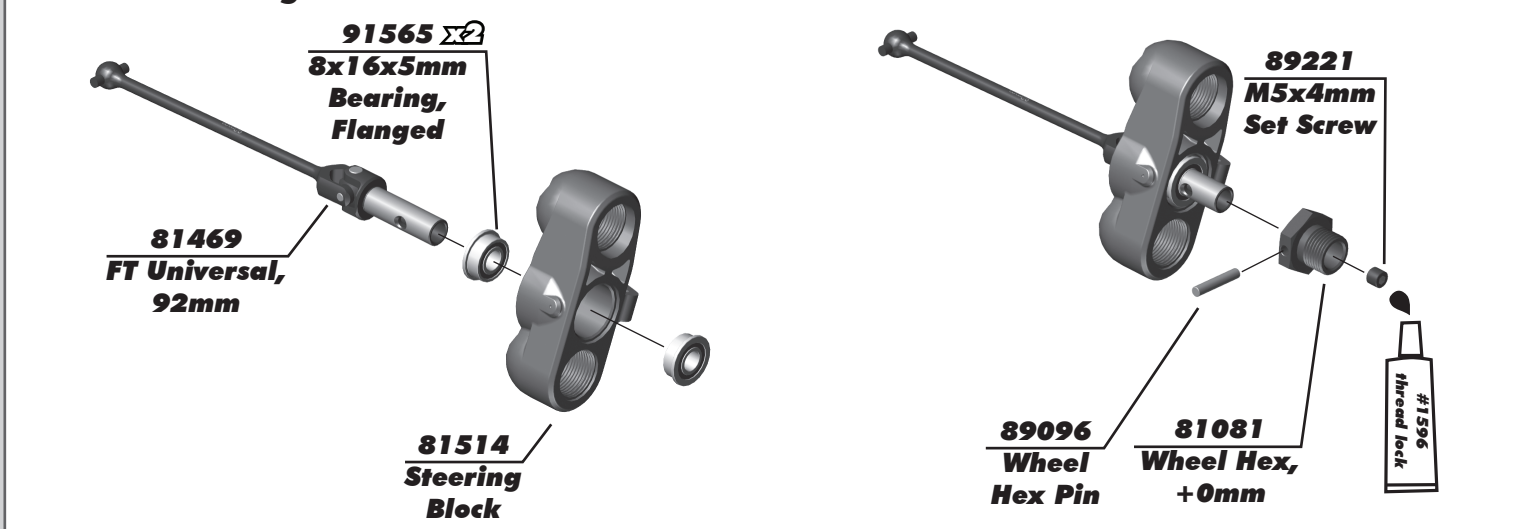
:: Front Gearbox Build - Bag 5.1, 5.2, 5.3 - Step 9

Build left and right side!



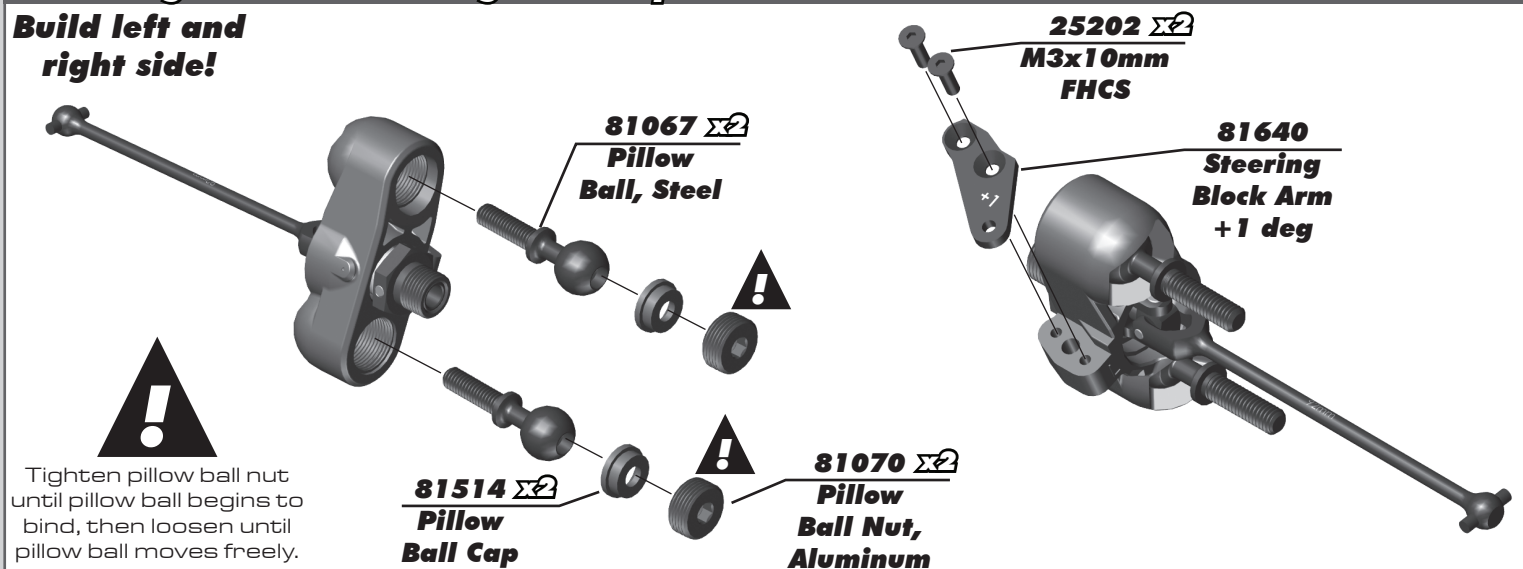
:: Steering Blocks Build - Bag 6.1 - Step 1

Build left and right side!

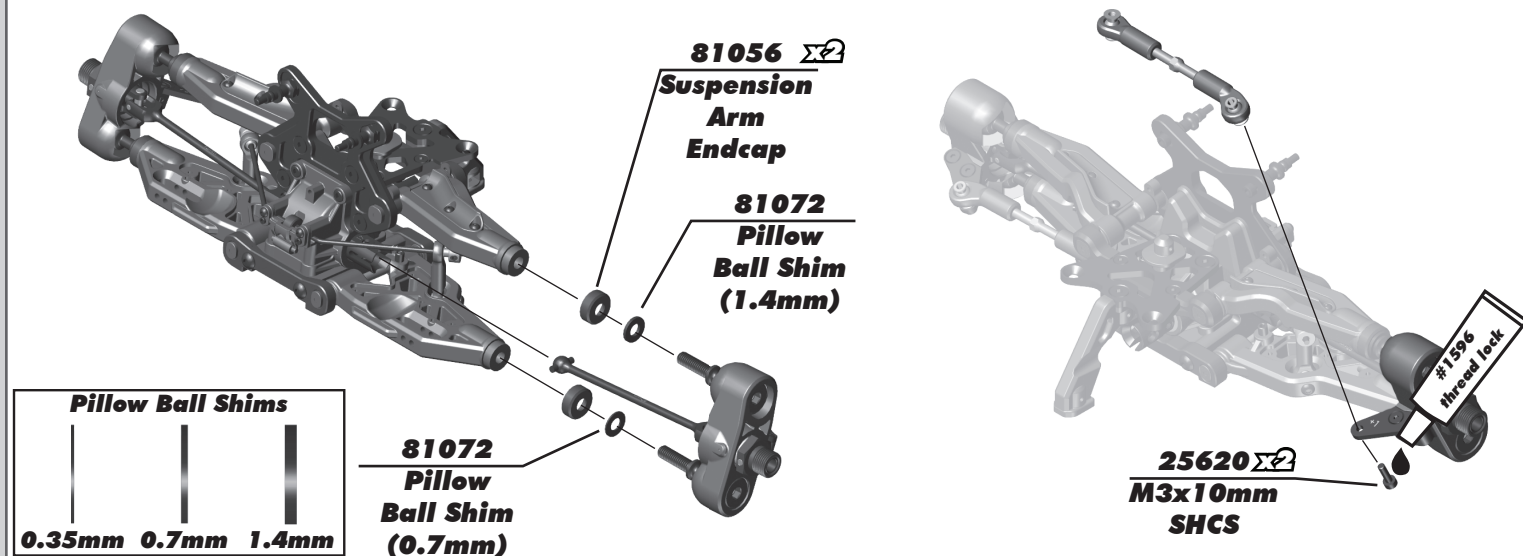


:: Steering Blocks Build - Bag 6.1 - Step 2

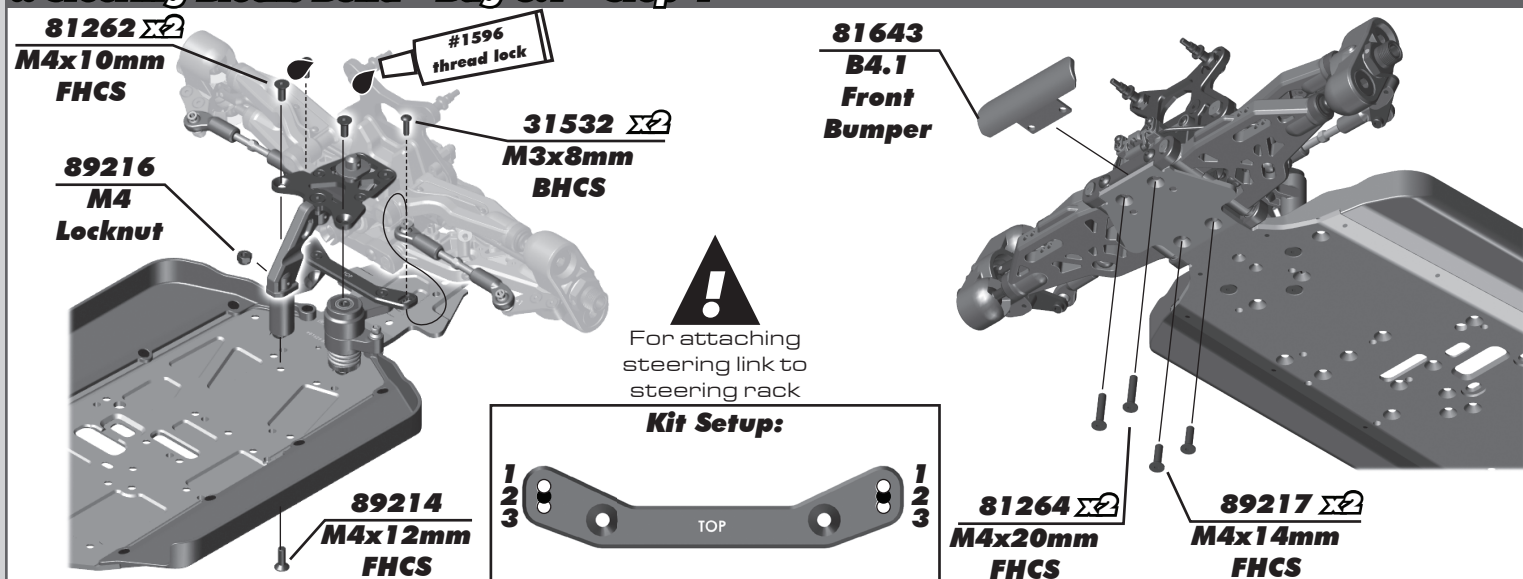
Build left and right side!



:: Steering Blocks Build - Bag 6.1 - Step 3



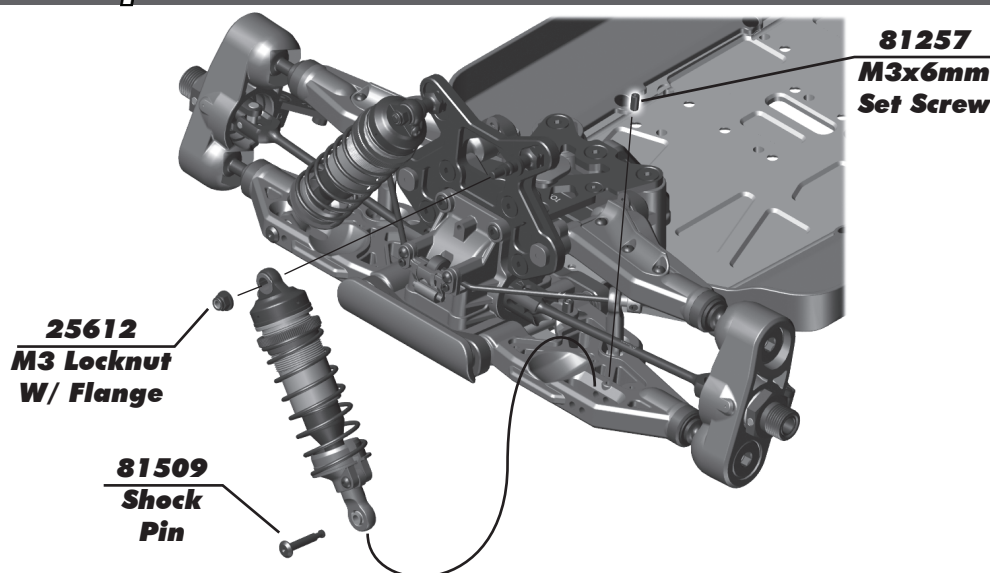
:: Steering Blocks Build - Bag 6.1 - Step 4



:: 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!

81468
Diff Pinion
Gear, 44/13
set

81543
Gearbox,
(Inboard)

81543
Dust Cap

81565
Dogbone
Outdrive,
Rear

4675
M2.5x6mm
FHCS

#1596
thread lock

89221
M5x4mm
Set Screw

91559 
6x13x5mm
Bearing

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

81381
Diff Shim
13.5x15.8x0.20mm

25620 
M3x10mm
SHCS

81543
Gearbox,
(Outboard)

81543
Anti-Roll
Bar Cap

STEP 1

#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 0.1 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:

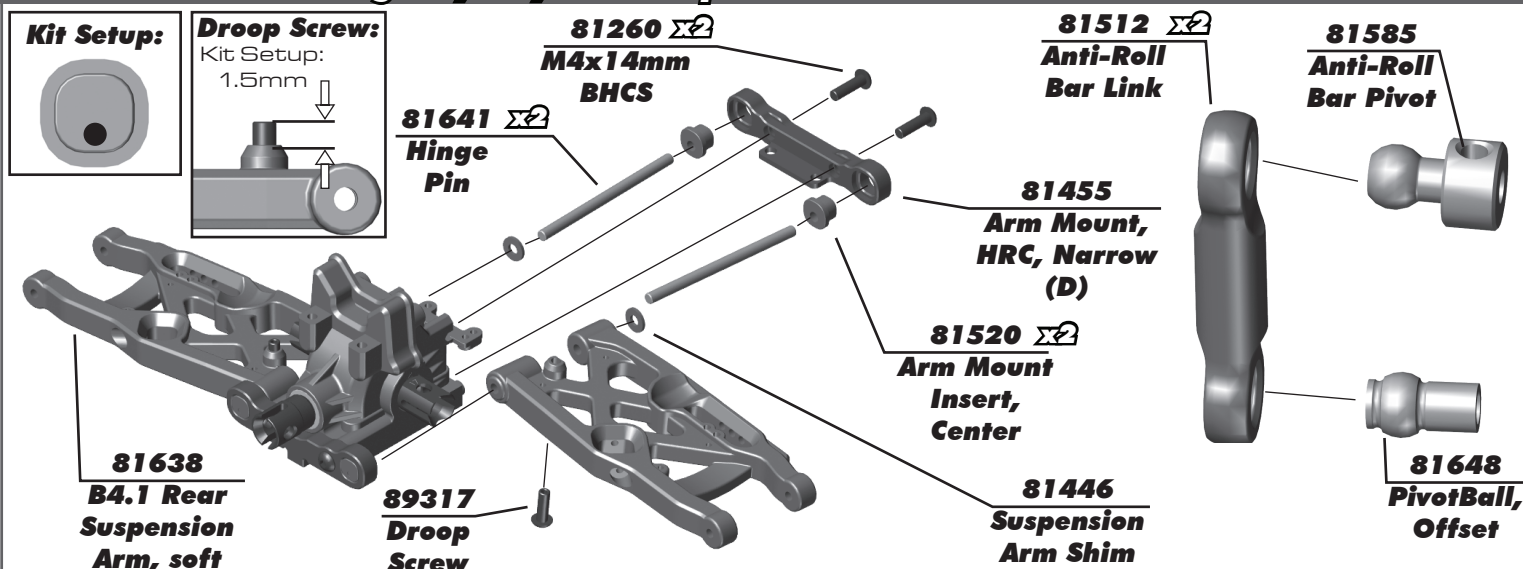


81454
Arm Mount,
HRC, Narrow
(C)

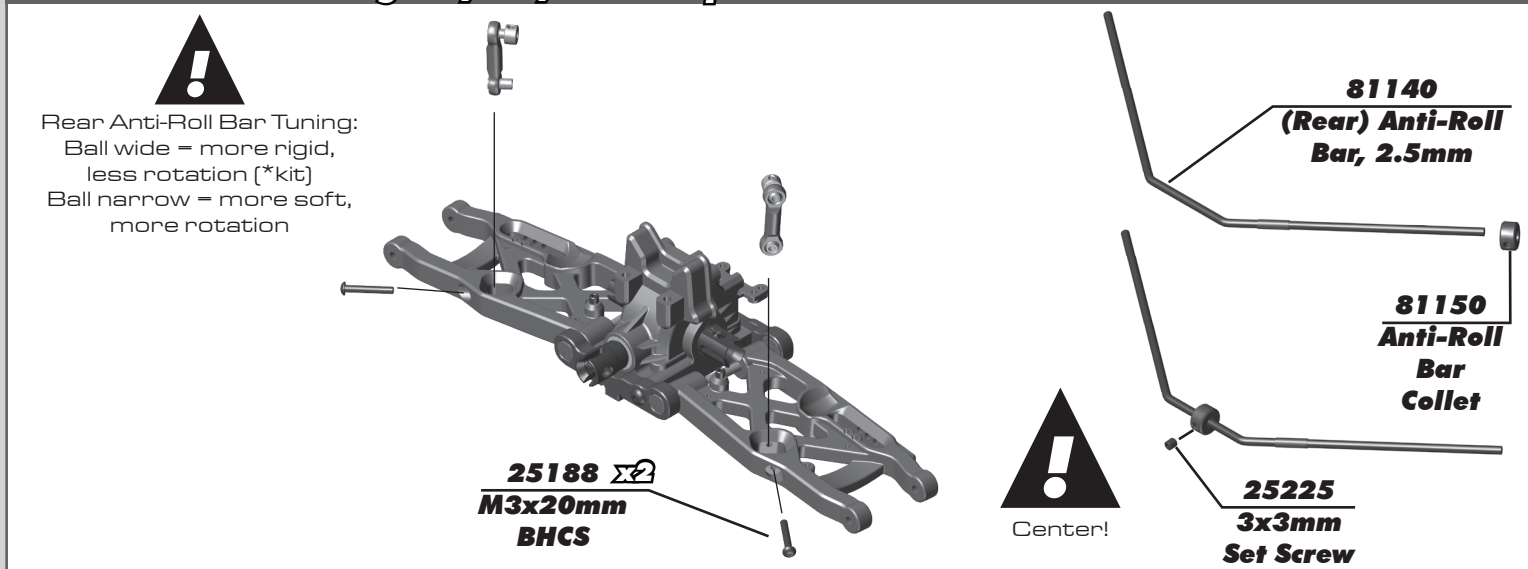
81260 
M4x14mm
BHCS

81520 
Arm Mount
Insert,
Center

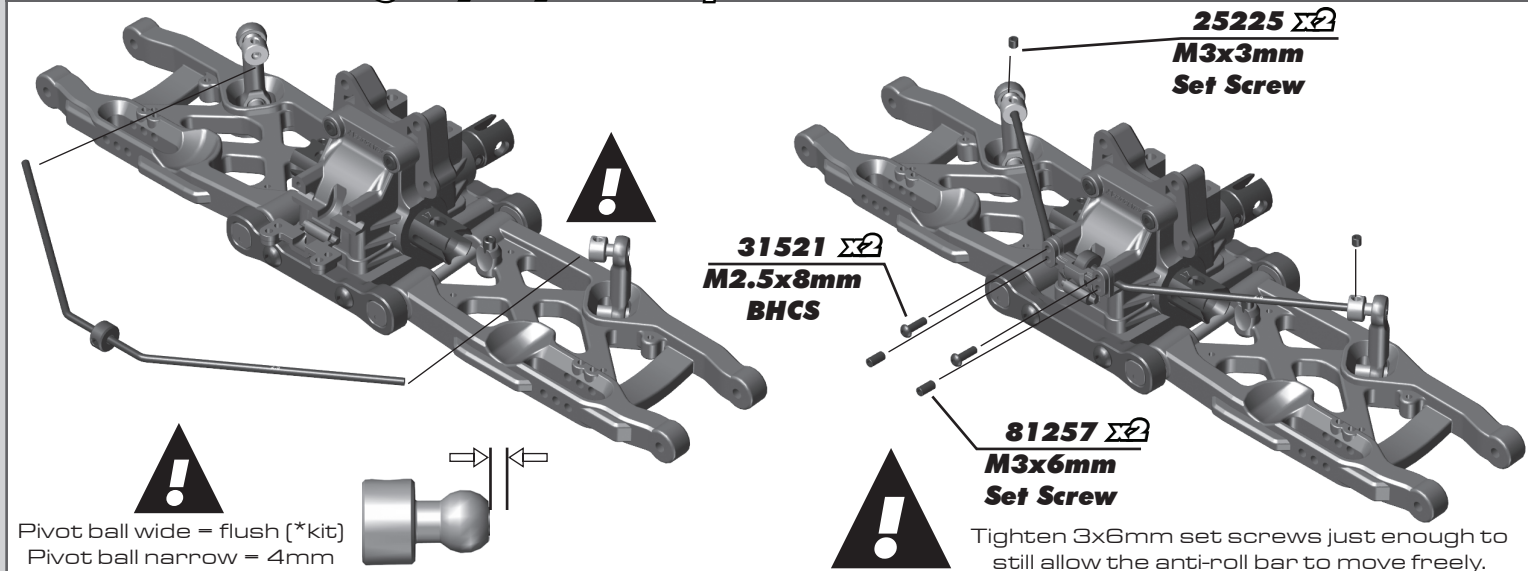
:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 4



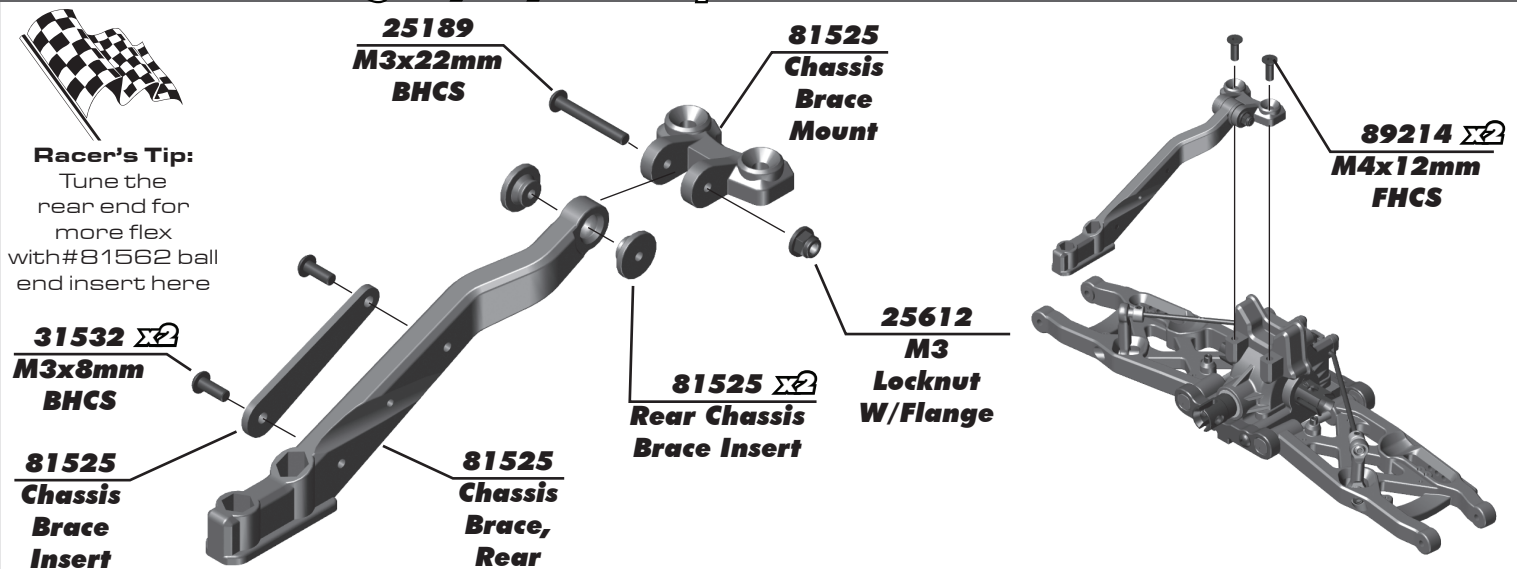
:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 5



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

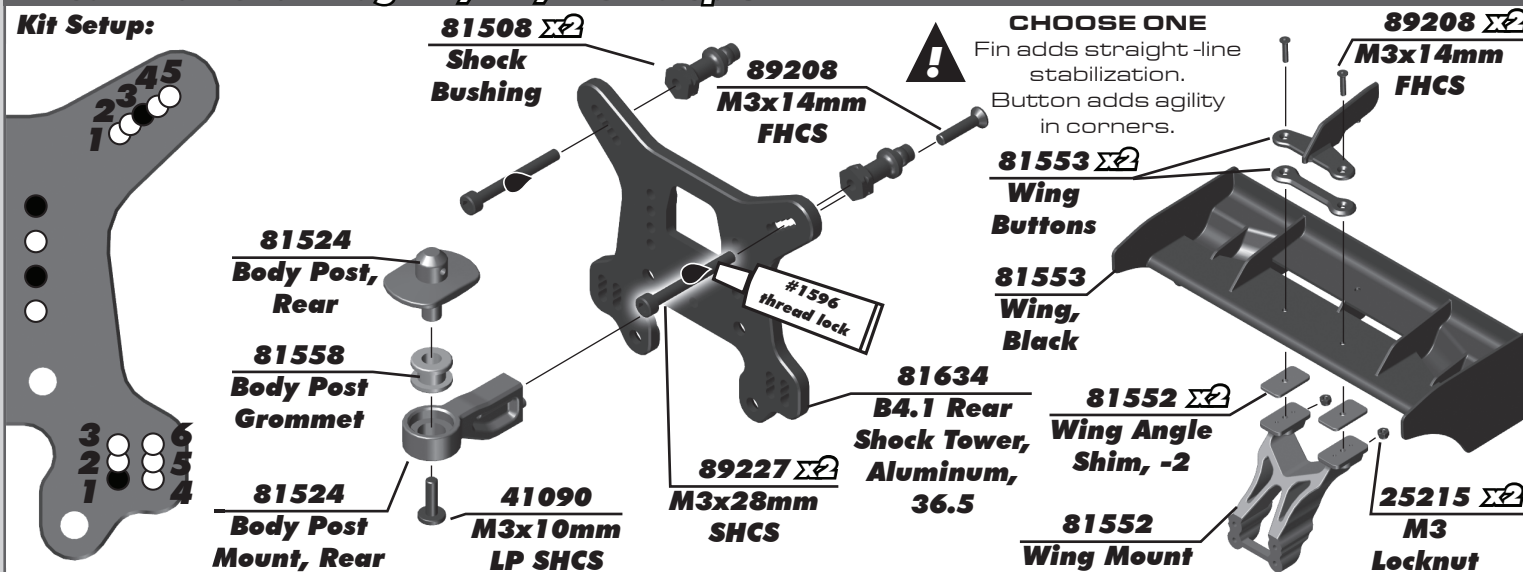


:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 7

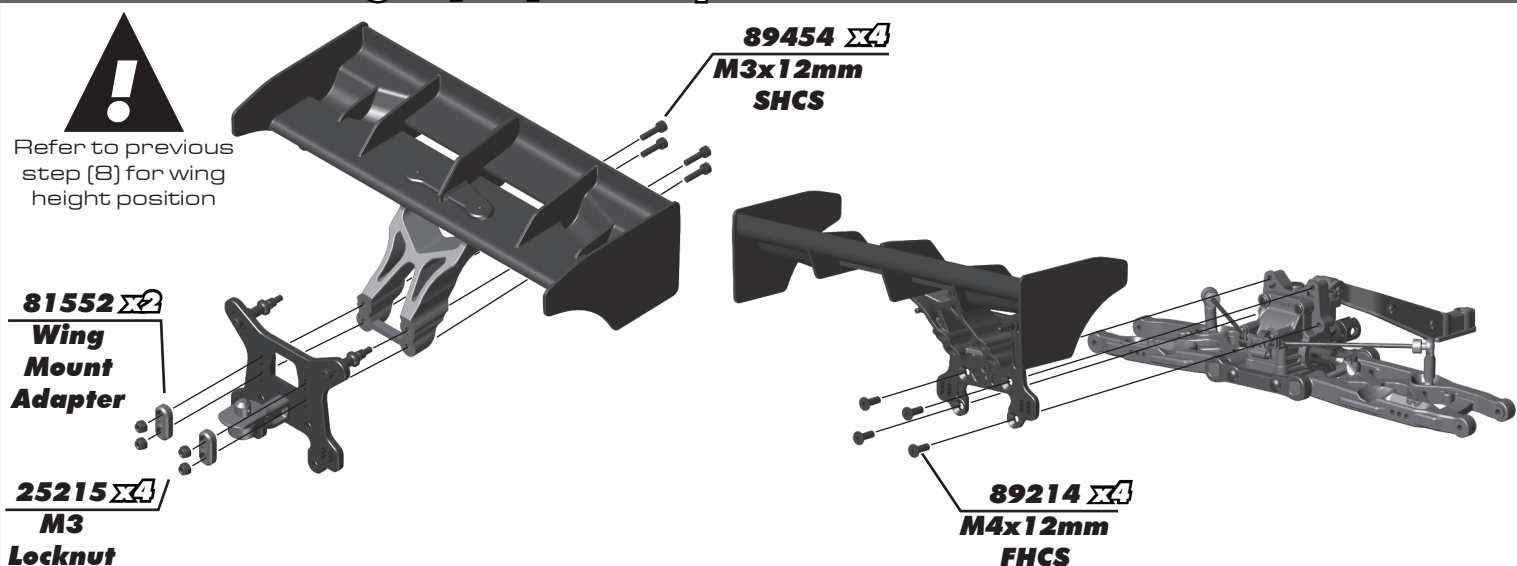


:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 8

Kit Setup:

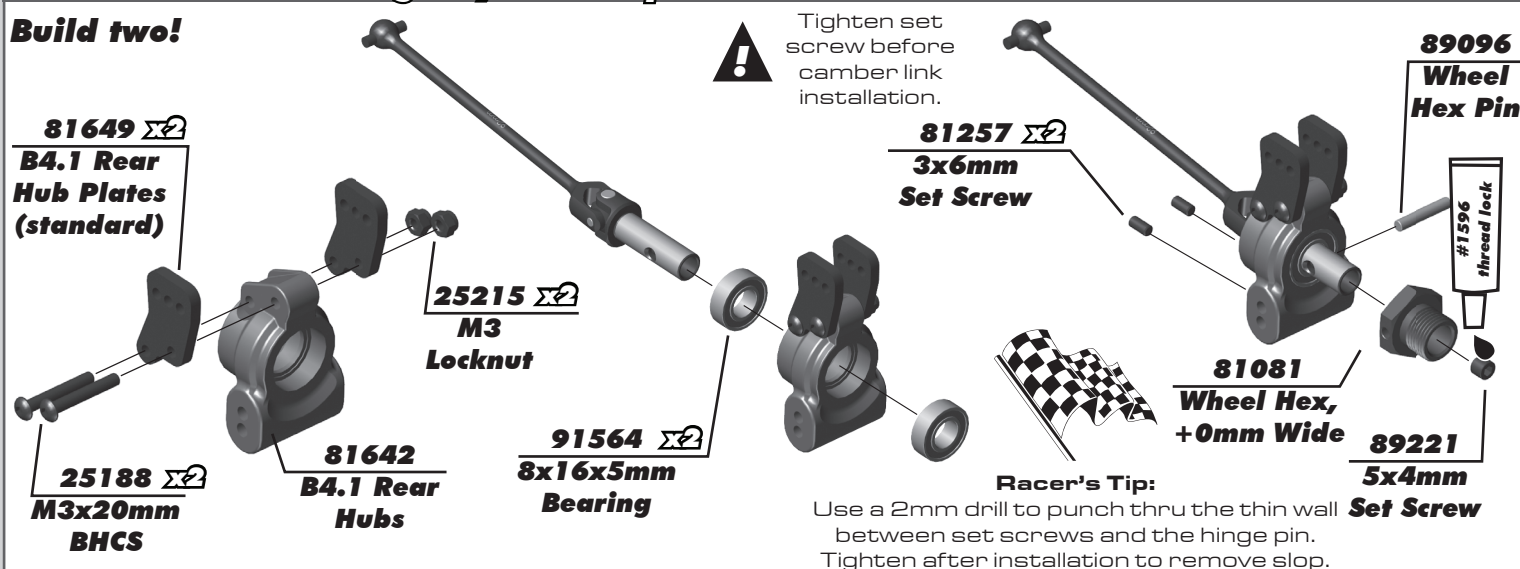


:: Rear End Build - Bag 7.1, 7.2, 7.3 - Step 9



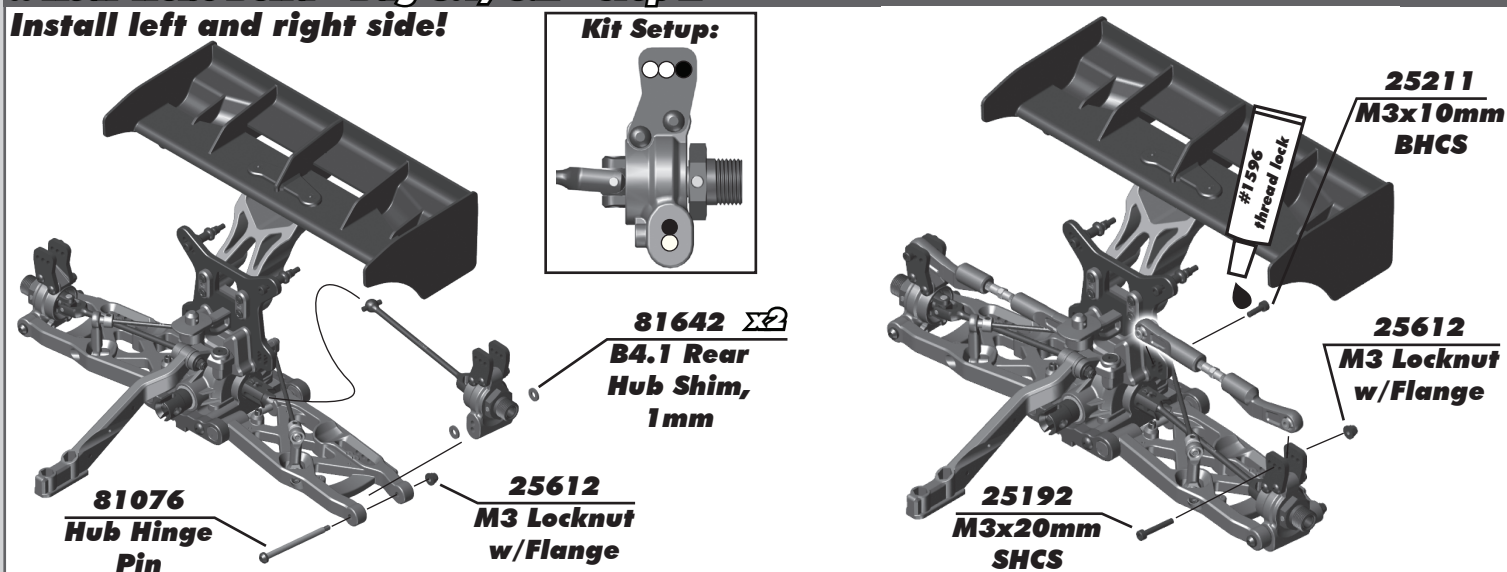
:: Rear Hubs Build - Bag 8.1, 8.2 - Step 1

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

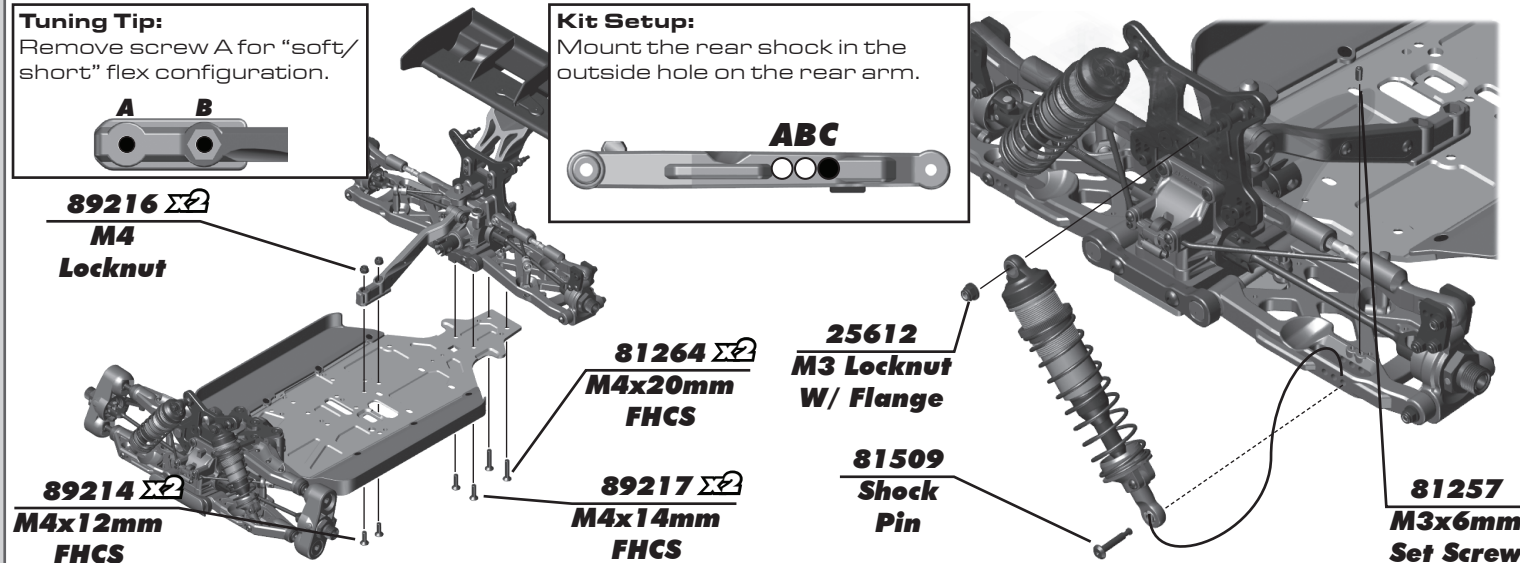
Tuning Tip:

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

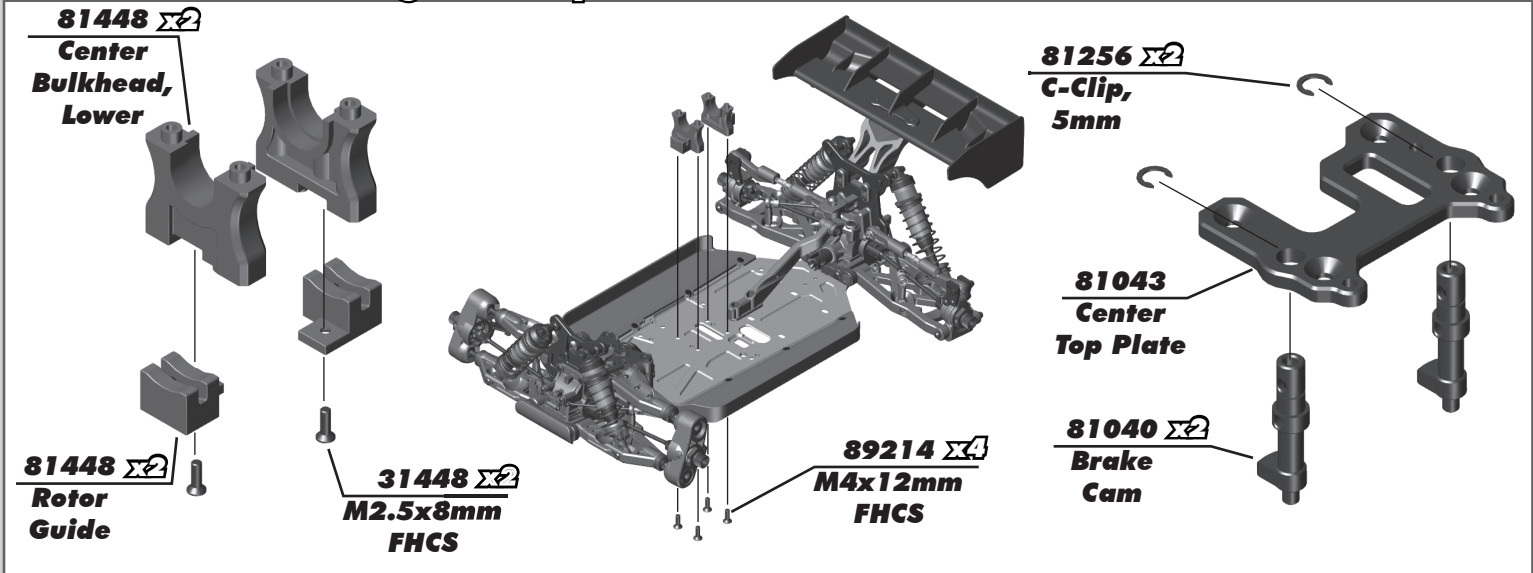


Kit Setup:

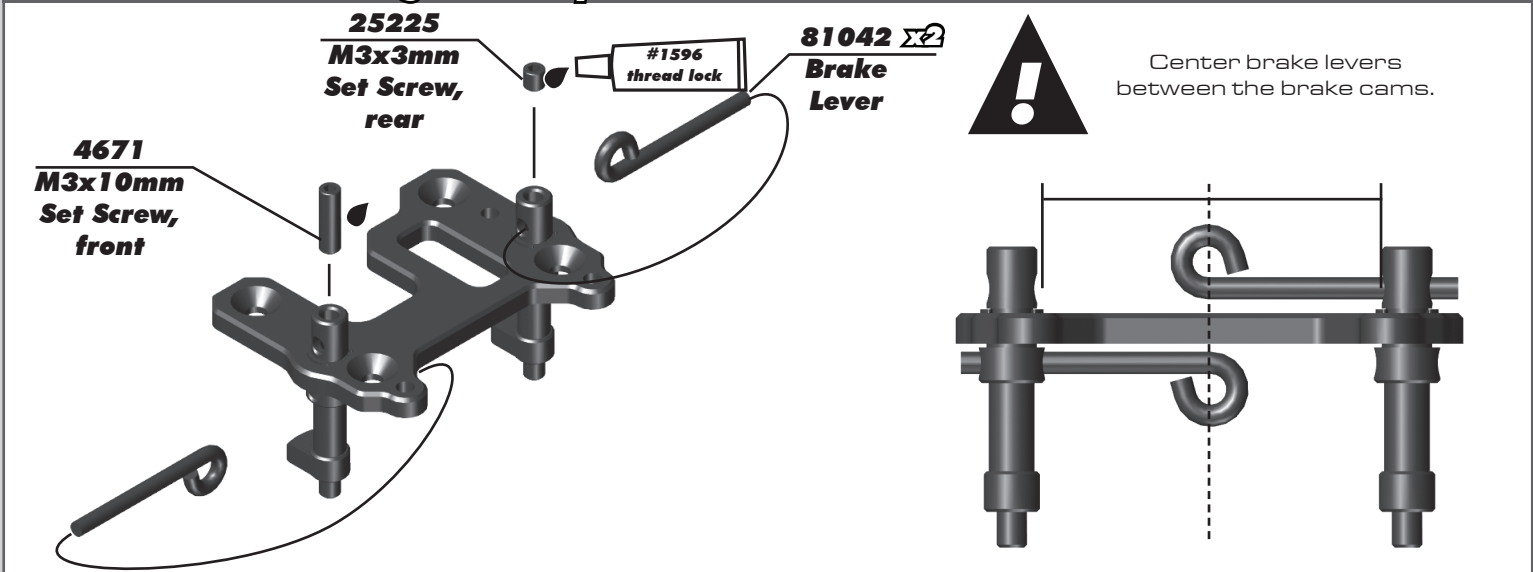
Mount the rear shock in the outside hole on the rear arm.



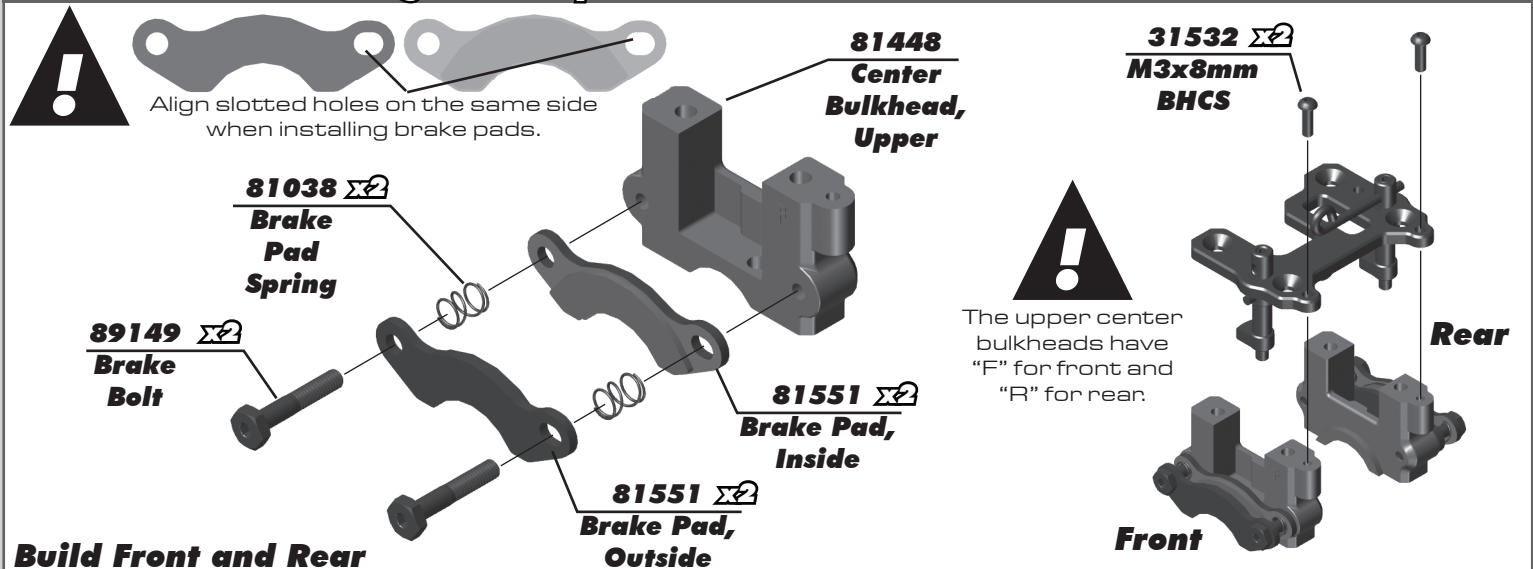
:: Center Bulkhead - Bag 9.1 - Step 1



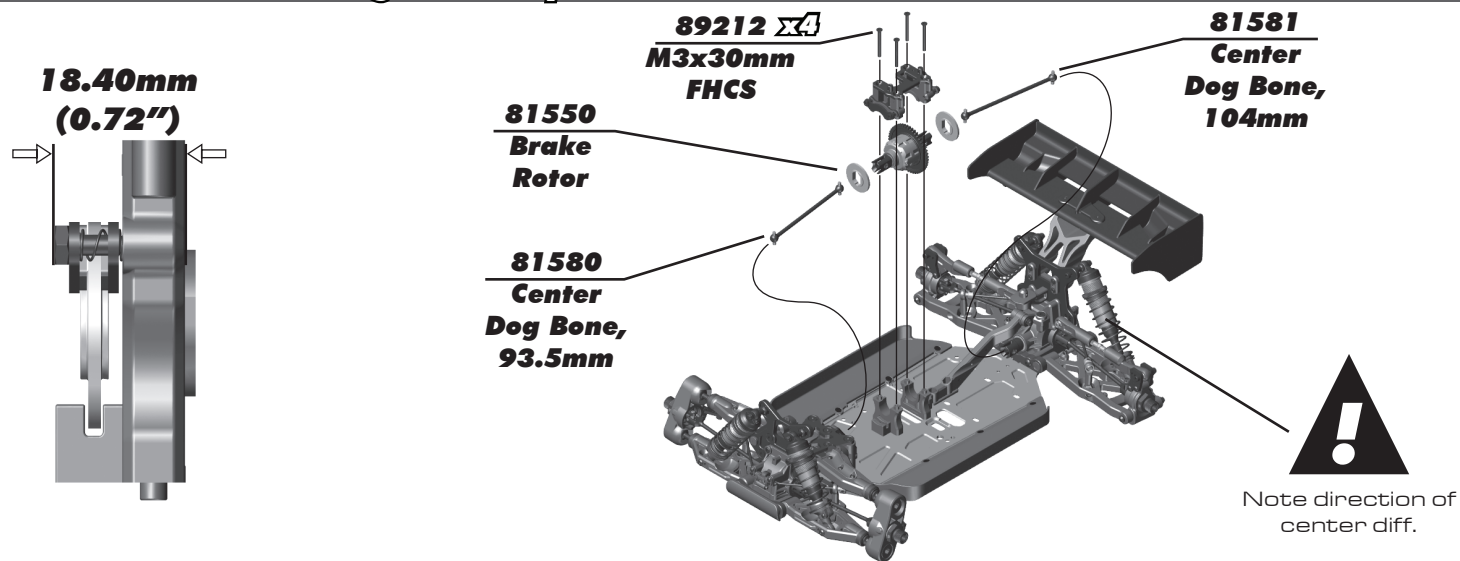
:: Center Bulkhead - Bag 9.1 - Step 2



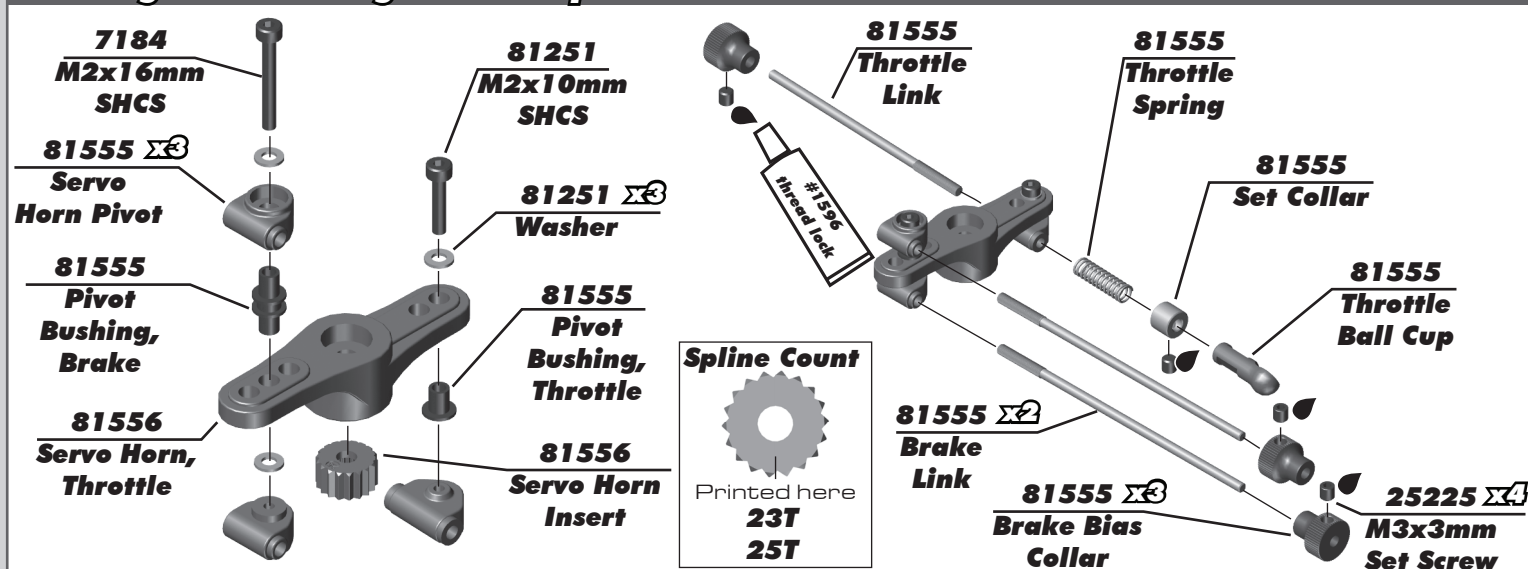
:: Center Bulkhead - Bag 9.1 - Step 3



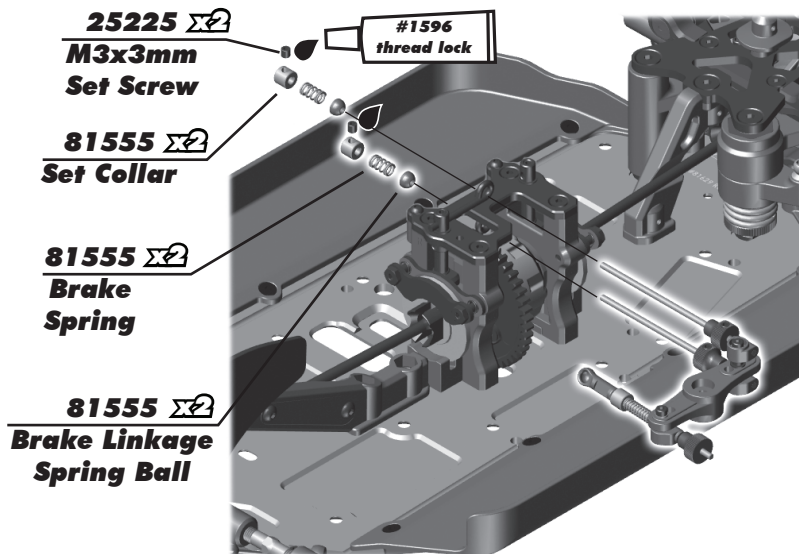
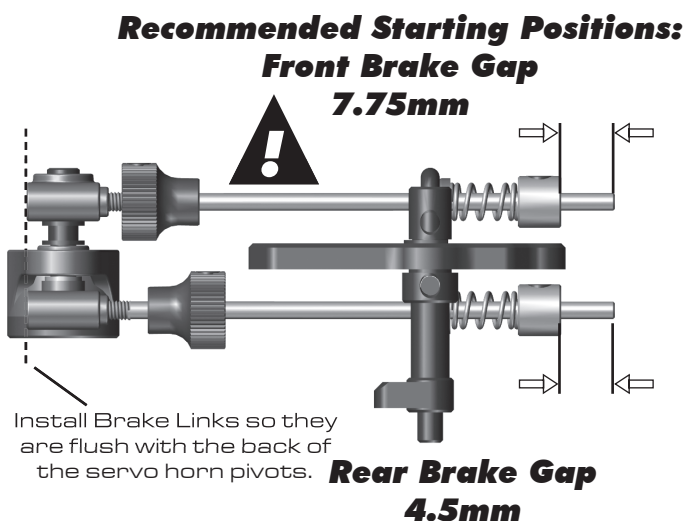
:: Center Bulkhead - Bag 9.1 - Step 4



:: Linkages Build - Bag 10.1 - Step 1



:: Linkages Build - Bag 10.1 - Step 2



:: Linkages Build - Bag 10.1 - Step 3

Spline Count



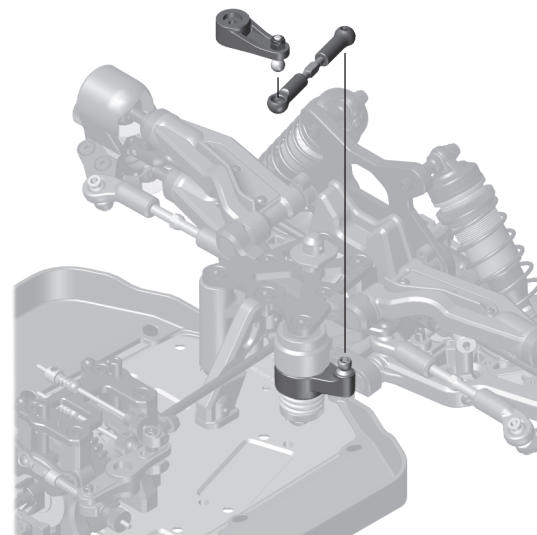
Printed here
23T
25T

81556
Servo Horn
(Steering)

81556
Servo Horn
Insert

25215
M3
Locknut

91048
HD Ball
Stud, 8mm



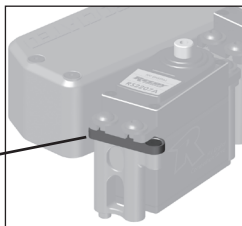
:: Radio Tray Build - Bag 11.1 - Step 1

Radio Tray Configuration:

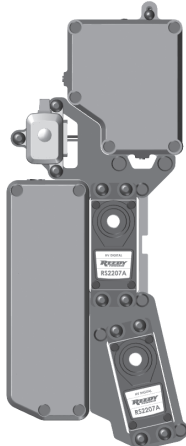
The radio tray on RC8B4 can be configured in four different ways. Each configuration changes the amount and location of flex in the chassis. Experiment with different configurations when running on different surfaces.

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

81433
Radio Tray
Spacer

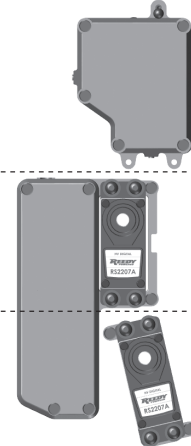


Option 1



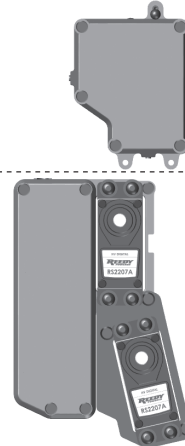
Least Flex
(Kit Setup)

Option 2



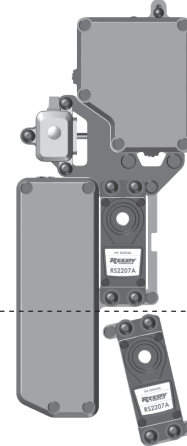
Most Flex

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!

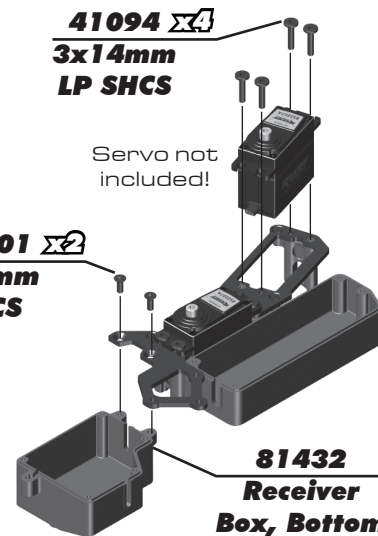
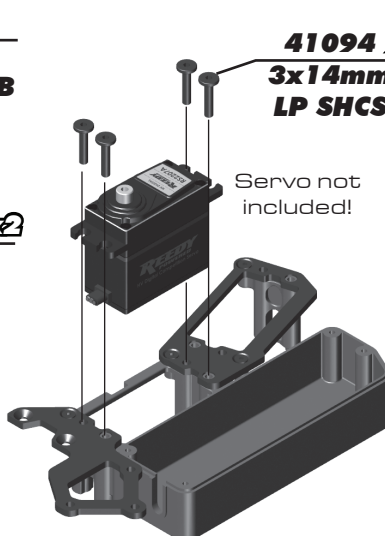
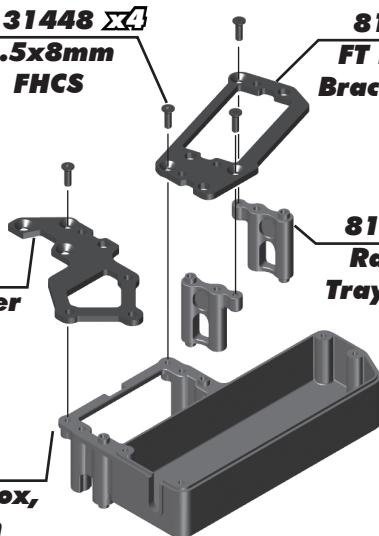
Servo not
included!

25201 x2
3x8mm
FHCS

81450
Transponder
Mount

81432
Battery Box,
Bottom

81432
Receiver
Box, Bottom



:: Radio Tray Build - Bag 11.1 - Step 3

42007 X2
Receiver
Box
Grommet

Receiver
not included!

6727
Servo
Tape

42007 X2
Grommet
Plug

Receiver Battery
not included!

31448 X9
2.5x8mm
FHCS

81432
Receiver
Box, Top

81432
Battery
Box, Top

:: Radio Tray Build - Bag 11.1 - Step 4

25225
3x3mm
Set Screw

6338
Antenna
Tube and
Cap

Transponder
not included!

25215 X3
M3 Locknut

25211 X3
3x10mm
BHCS

On/Off switch
not included!

25211 X2
3x10mm
FHCS

#1596
thread lock

Racer's Tip:
Center servos
before horn
installation!

!
The switch and
transponder
positions can be
reversed if desired

89214 X6
4x12mm
FHCS

:: 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

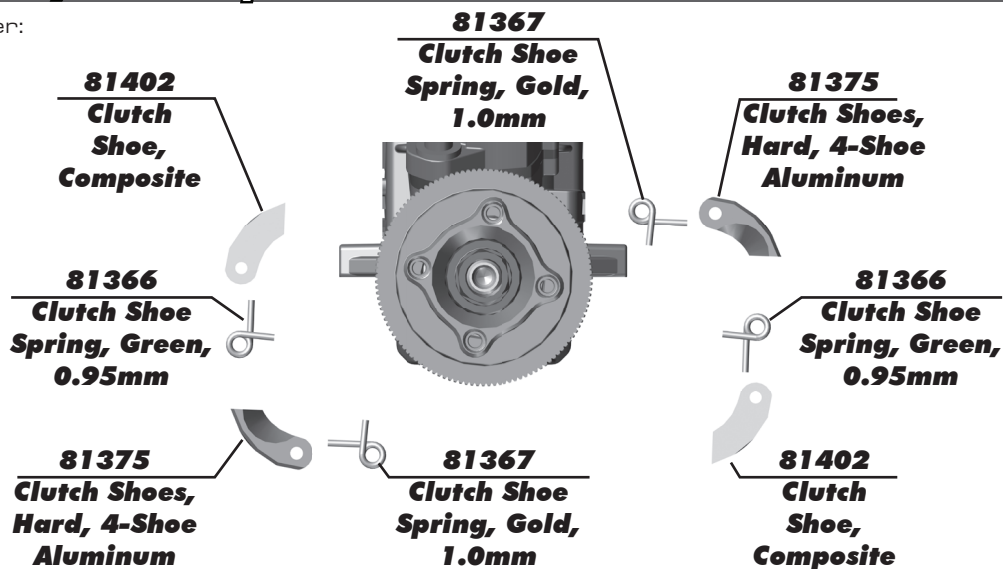
:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 2

Clutch Shoe / Spring Installation Order:



Short end of clutch shoe spring installed into flywheel.

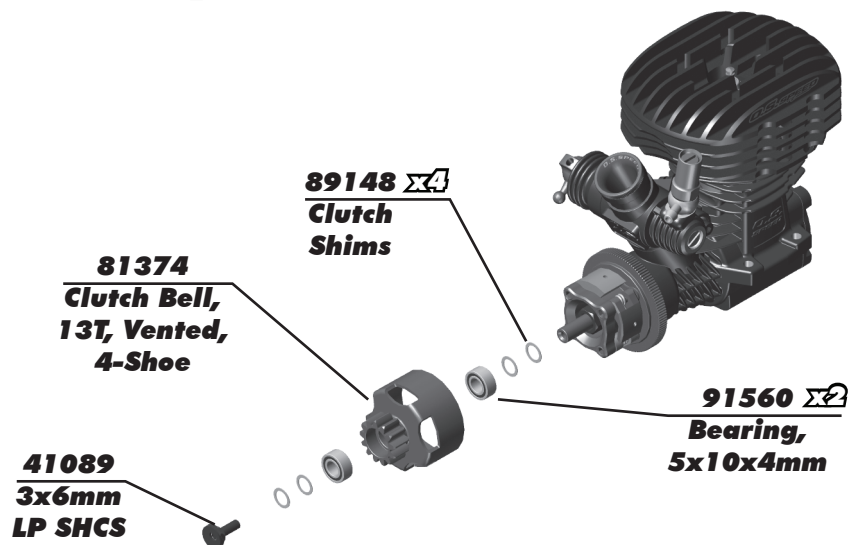
Long end of clutch shoe spring installed into clutch shoe.



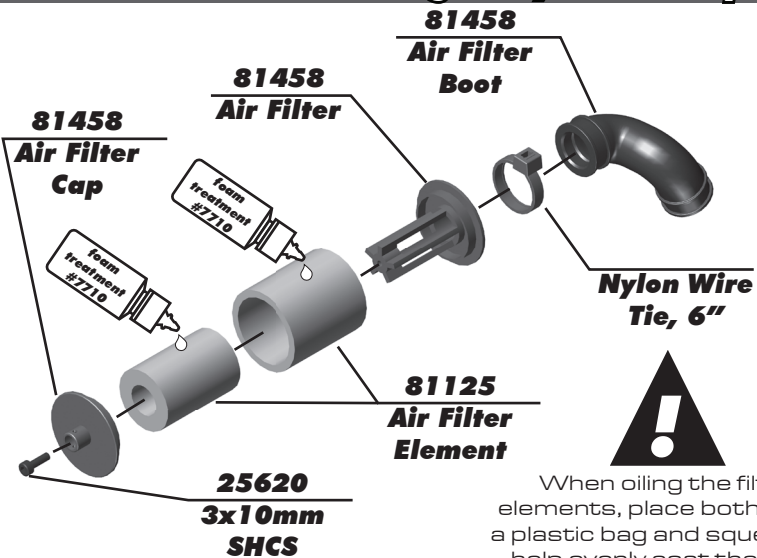
:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 3

Clutch shimming instructions:

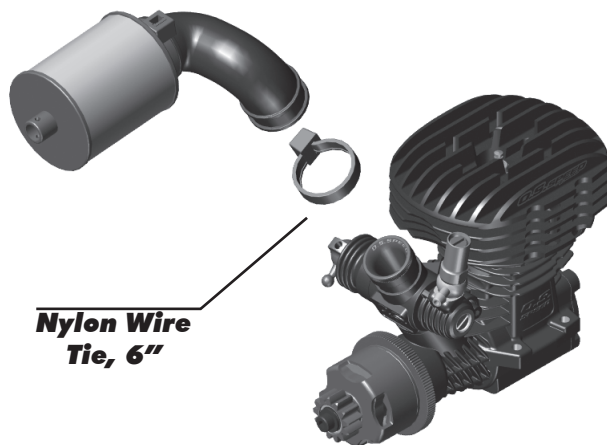
- Build assembly with shims as shown
- If clutch bell does not spin freely:
Move shim from behind clutch bell to in front of clutch bell
- OR-
Remove one shim from front of clutch bell
- Recommended axial play in clutch bell = 0.2mm - 0.5mm



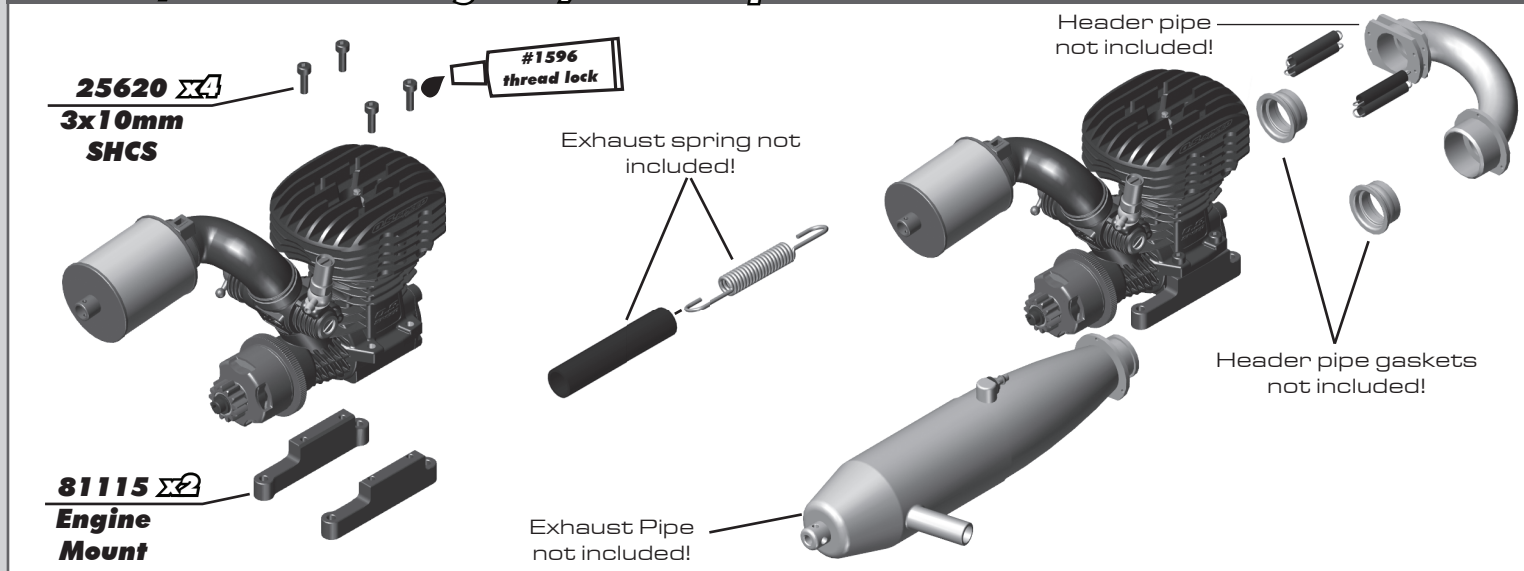
:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 4



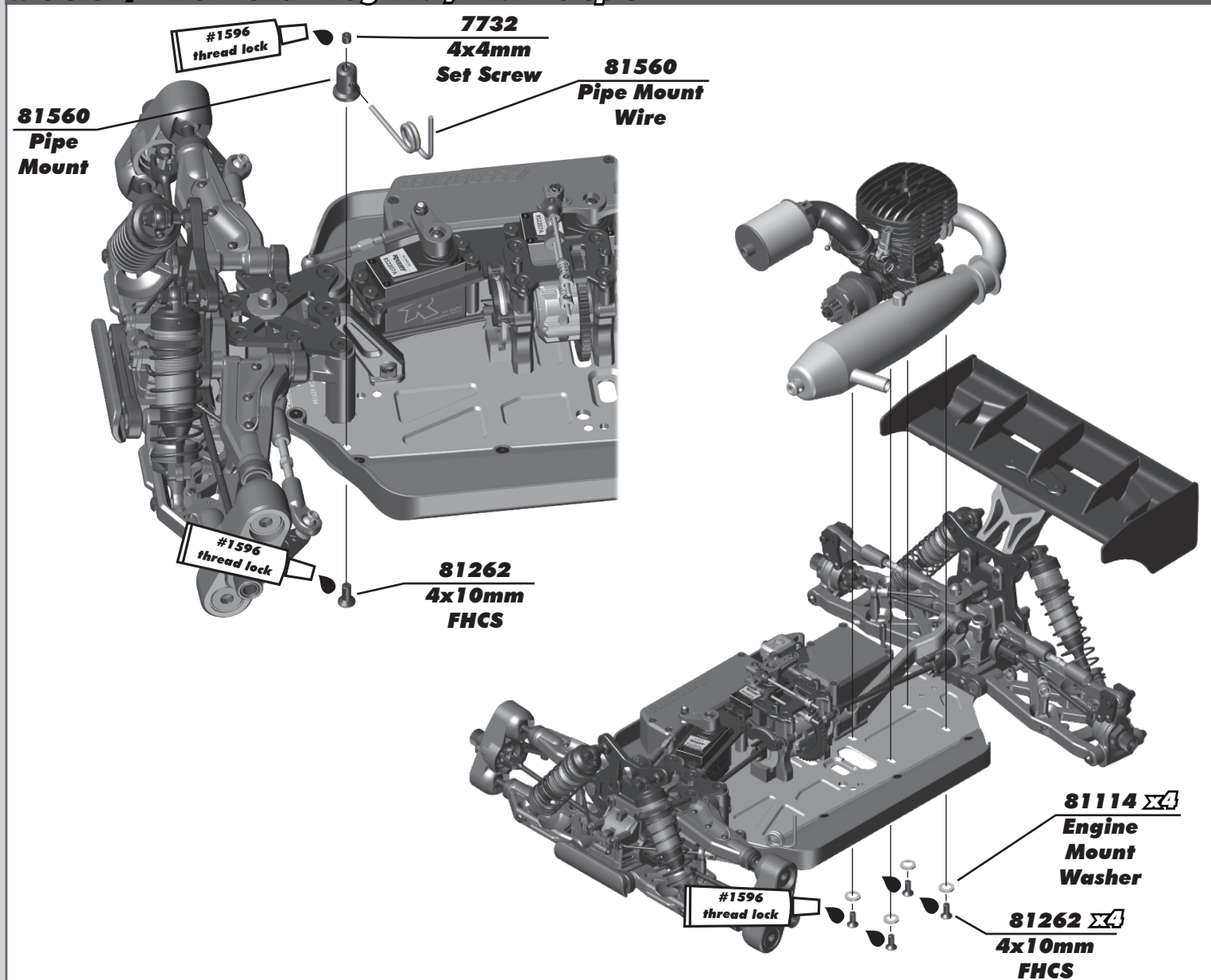
When oiling the filter elements, place both inside a plastic bag and squeeze to help evenly coat the filter.



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



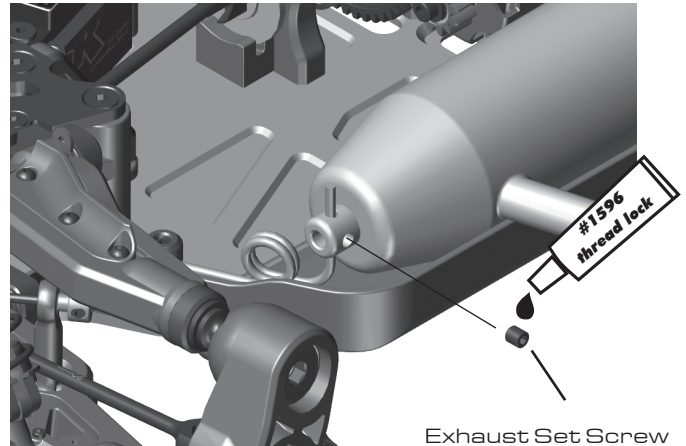
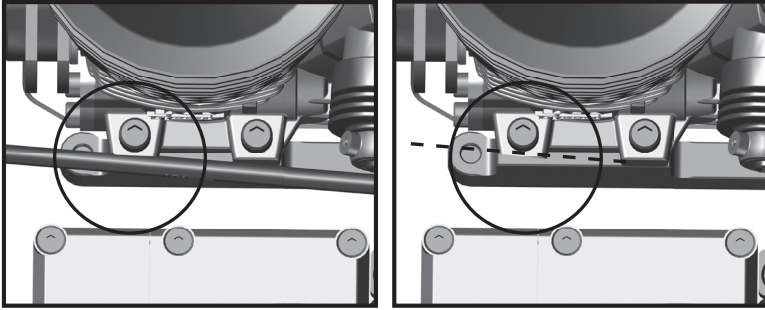
:: Clutch / Filter Build - Bag 12.1, 12.2 - Step 6



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

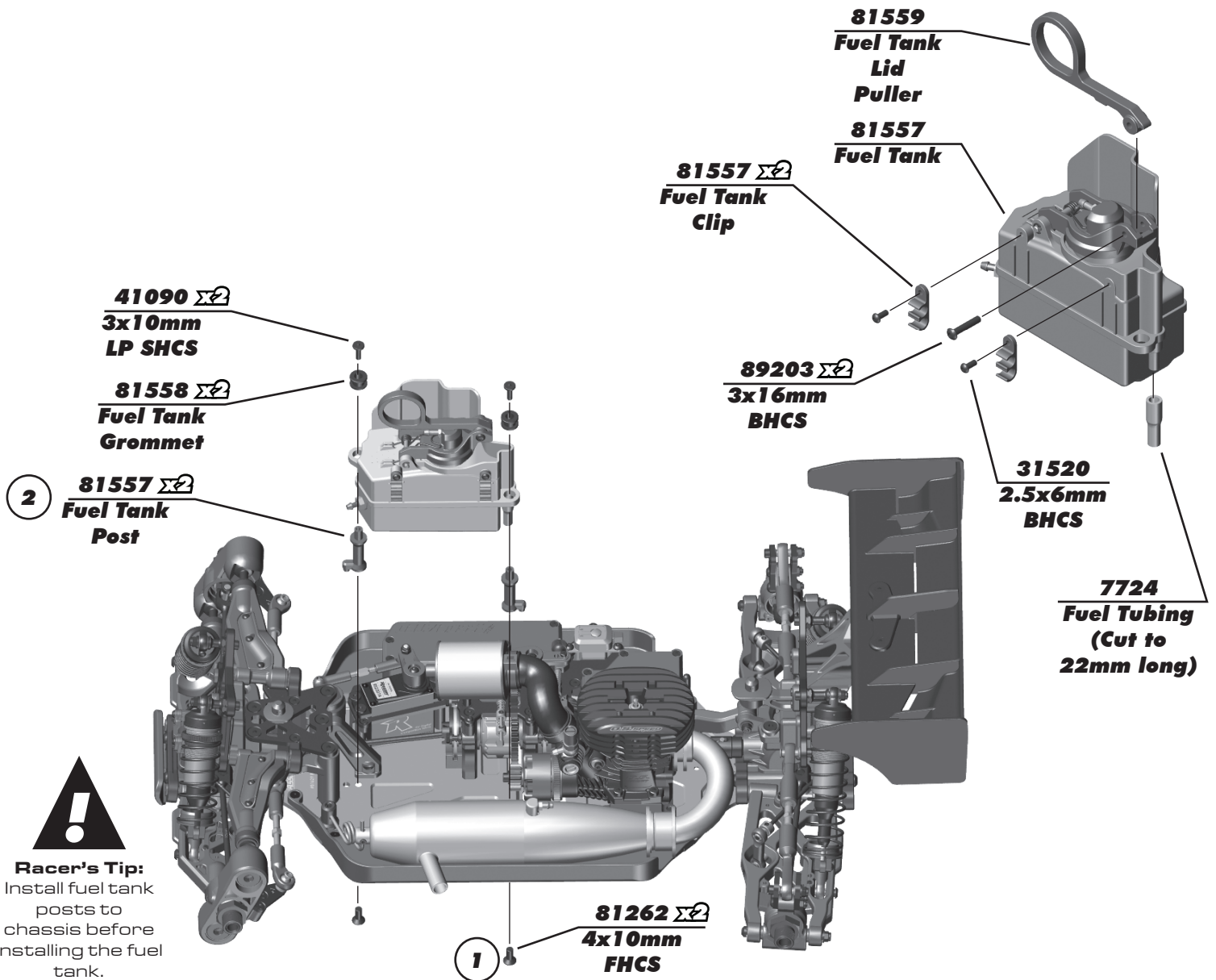


When installing your engine, make sure the rear drive shaft does not interfere with the engine block. You may need to remove material from the engine block for fitment.



Exhaust Set Screw not included!

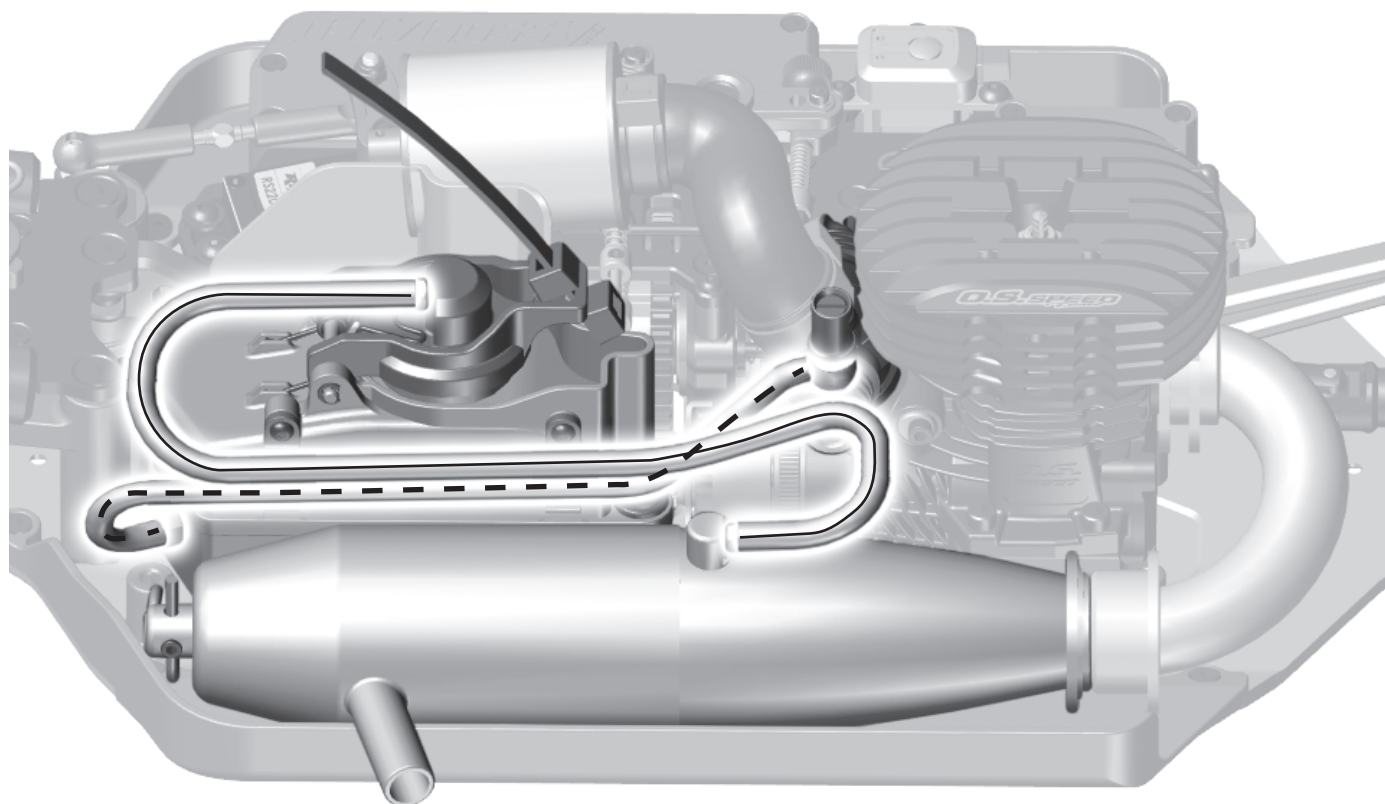
:: Fuel Tank Build - Bag 13.1, 13.2 - Step 1



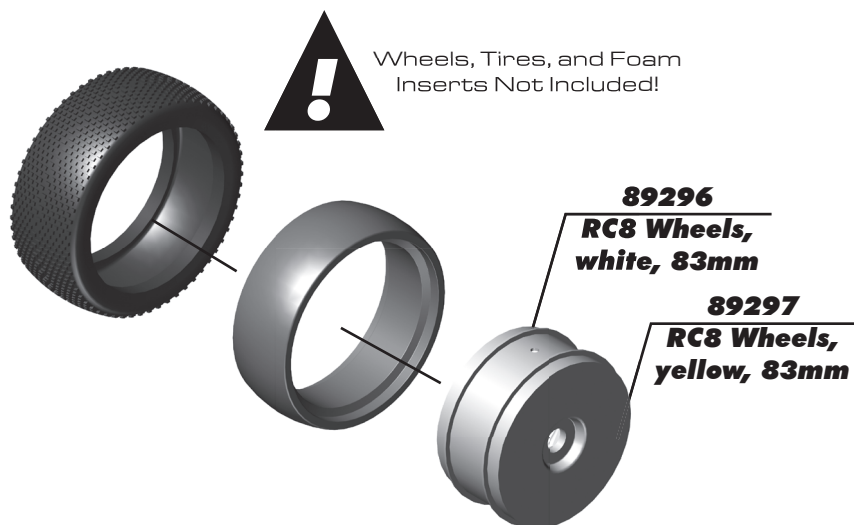
:: Fuel Tank Build - Bag 13.1, 13.2 - Step 2

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

**Fuel line from fuel
tank to carburetor**



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



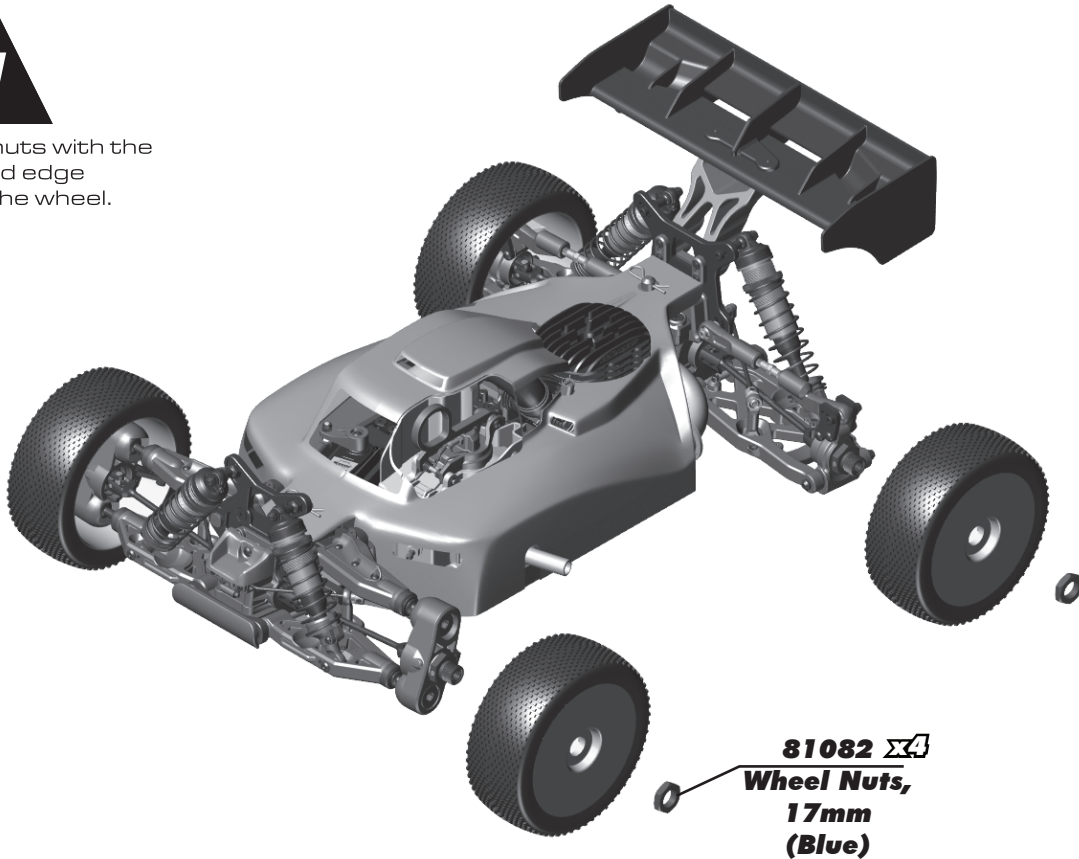
Tires:

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

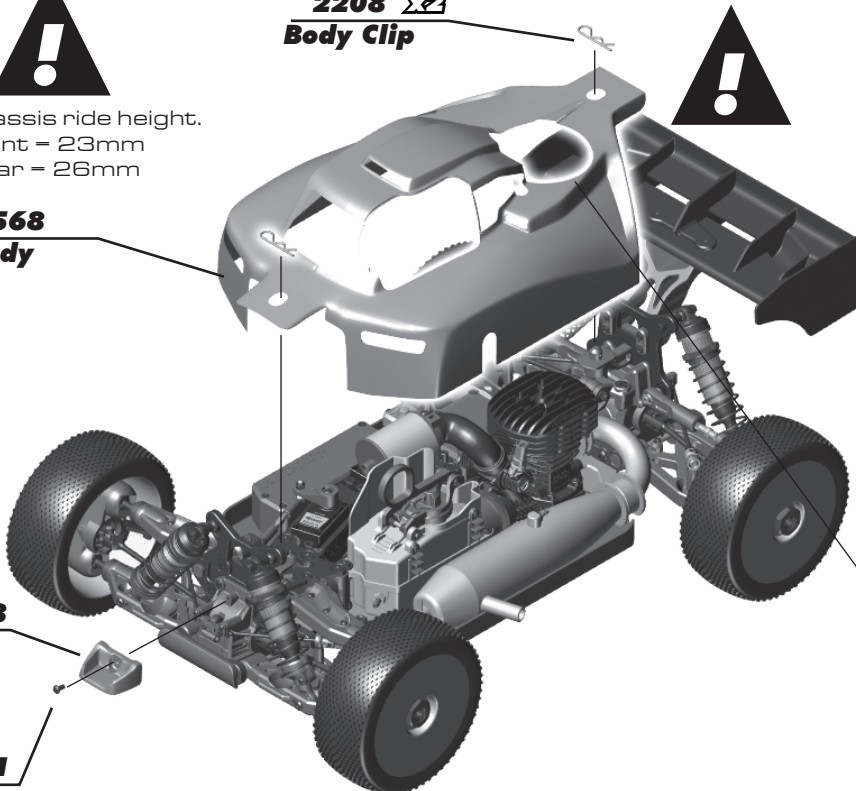
81568
Body

2208 x2
Body Clip



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.

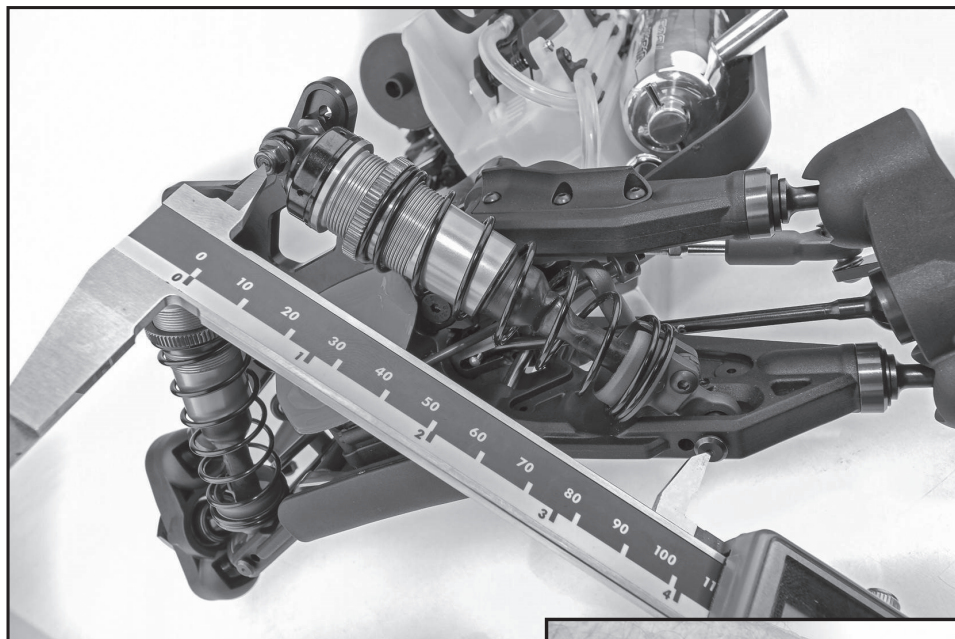
:: Droop Settings

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.

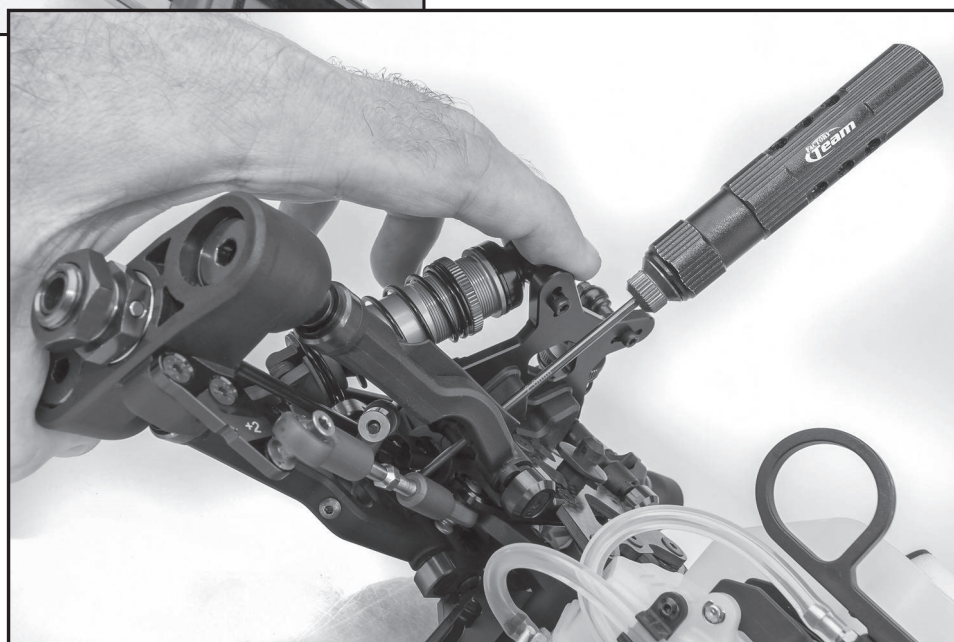
If the shock length is too long, adjust by turning the droop screws clockwise.

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.

FIND IT ON ASSOCIATEDELECTRICS.COM

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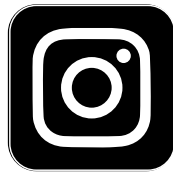
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new releases, setup help, tips, and racing info!***

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