

1:10 Scale 4WD Electric Off Road
Competition Buggy Kit



TEAM ASSOCIATED



1:10 Scale 4WD Electric Off Road Competition Buggy Kit Manual

#90050 RC10B84 Off Road Buggy Team Kit



CHAMPIONS *by* DESIGN

AssociatedElectrics.com

TEAM ASSOCIATED

⚡ Introduction

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

Check each bag for these sheets before you start to build.

Check www.rc10.com for the latest versions of our instruction manuals.

⚡ RC10B84 Features

- Molded Height-Adjustable Gearboxes Front and Rear with Additional +2 Rear Gearbox for High-Grip Conditions
- Long-Arm Suspension Geometry: improves grip and predictability in all conditions
- Optimized Steering Bellcranks and Rack: improved bumpsteer control at all ride heights
- Chassis Bracing: Fine tune chassis flex characteristics with upper and lower chassis bracing front and rear
- Standard and HRC (High Roll Center) Rear Hubs Included
- Insert adjustable caster block with 0, +/-1, and +/-2 degree inserts included
- Forward and Back Motor Positions: used for further weight bias adjustment
- Highly Adjustable Battery Holder with Thumb Tabs: allows for easy battery removal and fine tuning of weight bias
- 2.5mm Thick Tapered 7075-T6 Aluminum Chassis with 10 Degrees of Kickup and Improved Departure Angle
- (90050 Only): Decoupled Slipper Clutch Included
- (90051 Only): Molded Ring and Pinion Gears Included
- Aluminum Center-Mounted Servo Mount
- Two heights Included for Rear Wing Mount
- 7-inch Rear Wing
- Low-Profile Body
- Shock Tower Covers Front and Rear
- 3.5mm Turnbuckles and Ballcaps
- 13mm Big-Bore Shocks

⚡ Additional

Your new RC10B84 Kit comes unassembled and requires the following items for completion (refer to AssociatedElectrics.com for suggestions):

- | | |
|--|---|
| • R/C two channel surface frequency radio system | • Battery charger (a peak detection charger, or LiPo compatible charger) |
| • AA-size batteries for transmitter | • 2 cell LiPo battery pack |
| • Electronic Speed Control ("ESC") | • Polycarbonate specific spray paint |
| • Steering servo | • Cyanoacrylate glue ("CA") (#1697) |
| • R/C electric motor | • Thread locking compound (#1596) |
| • Pinion gear, size determined by type/turn or kV of motor | • Tires and Inserts, Fronts and Rears |

⚡ Other Helpful Items

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

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Fax: 949.544.7501

Hardware - 1:1 Scale View

Button Head (bhcs)

| | |
|--|------------------|
| | 2x4mm (31510) |
| | 2.5x5mm (31519) |
| | 2.5x6mm (31520) |
| | 2.5x8mm (31521) |
| | 2.5x10mm (31522) |
| | 3x4mm (91158) |
| | 3x5mm (31530) |
| | 3x6mm (31531) |
| | 3x8mm (31532) |
| | 3x10mm (25211) |
| | 3x12mm (89202) |
| | 3x14mm (25187) |
| | 3x16mm (89203) |
| | 3x18mm (2308) |
| | 3x20mm (25188) |
| | 3x22mm (25189) |
| | 3x24mm (89204) |
| | 3x30mm (91478) |

Flat Head (fhcs)

| | |
|--|-----------------|
| | 2x3mm (91743) |
| | 2.5x8mm (31472) |
| | 3x5mm (31540) |
| | 3x6mm (31541) |
| | 3x8mm (25201) |
| | 3x10mm (25202) |
| | 3x12mm (25203) |
| | 3x14mm (89208) |
| | 3x16mm (25204) |
| | 3x18mm (89209) |

LP Socket Head (lp shcs)

| | |
|--|----------------|
| | 3x6mm (41089) |
| | 3x8mm (41096) |
| | 3x10mm (41090) |
| | 3x22mm (41095) |
| | 3x24mm (41097) |

Set Screws

| | |
|--|-----------------|
| | 3x2.5mm (31500) |
| | 3x3mm (25225) |
| | 3x6mm (81257) |
| | 3x10mm (4671) |
| | 3x20mm (91737) |
| | 4x5mm (25226) |

Cap Head (shcs)

| | |
|--|-------------------|
| | 1.6 x 5mm (91611) |
|--|-------------------|

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) |
| | M4 Locknuts: Serrated Steel LP (91150) |
| | Serrated Steel (Silver) (91826) |
| | FT Aluminum (Blue) (31551) |
| | Serrated Aluminum (Black) (91738) |

Ball Bearings

| | |
|--|--------------------------|
| | 4x7x2.5mm (31732) |
| | 5x8x2.5mm (31400) |
| | 5x10x4mm (91560) |
| | 5x10x4mm flanged (92324) |
| | 5x12x4 (91567) |
| | 10x15x4 (91563) |
| | 12x18x4 (92544) |

Ballstuds

| | |
|--|-------------------------------|
| | HD, short neck 4mm (32041) |
| | Ti HD, short neck 4mm (32095) |
| | HD, short neck 6mm (32042) |
| | Ti HD, short neck 6mm (32096) |
| | HD, short neck 8mm (32040) |
| | Ti HD, short neck 8mm (32097) |
| | HD 6mm (91047) |
| | Ti HD 6mm (91751) |
| | HD 8mm (91048) |
| | Ti HD 8mm (91752) |
| | HD 10mm (91049) |
| | Ti HD 10mm (91753) |

Shims and Washers

| | |
|--|----------------------|
| | 5.5x0.5mm (31381) |
| | 5.5x1.0mm (31382) |
| | 5.5x2.0mm (31383) |
| | 3x8mm Washer (89218) |

Notes:

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Notes



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



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



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



This symbol indicates there are optional FT parts available



This symbol indicates a Racers Tip.



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



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



This symbol indicates where Diff Fluid should be applied.



This symbol indicates where Shock Fluid should be applied.



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



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

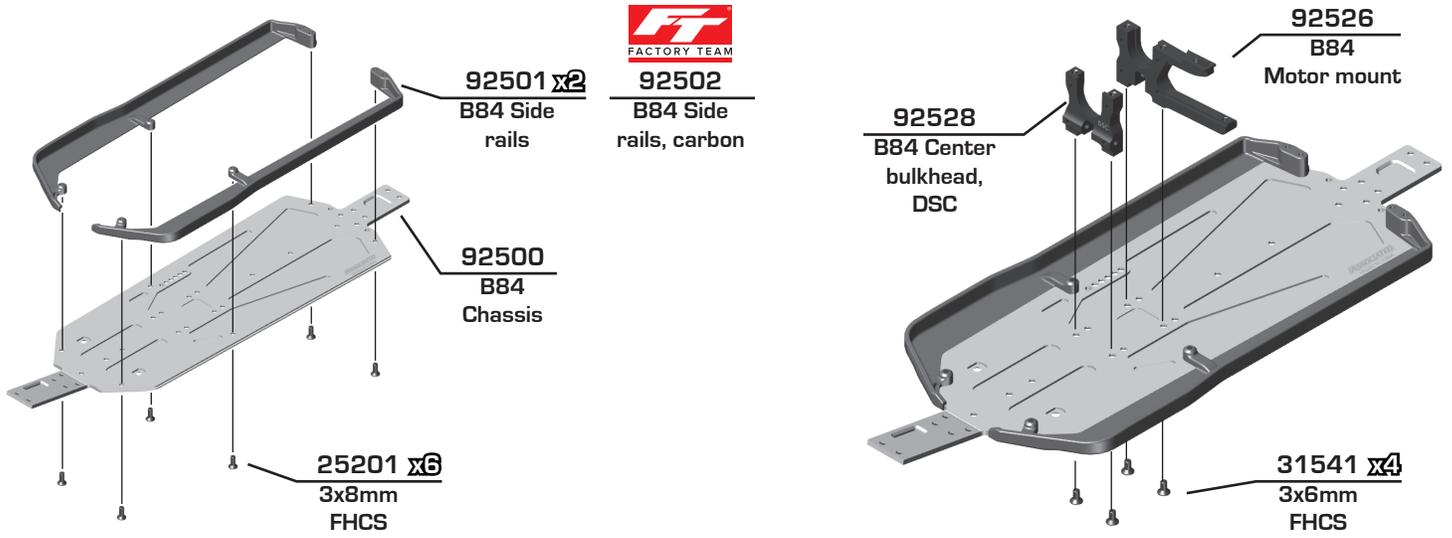


This symbol indicates where Black Grease should be applied.



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

:: Bag 1 - Step 1



:: Bag 1 - Step 2

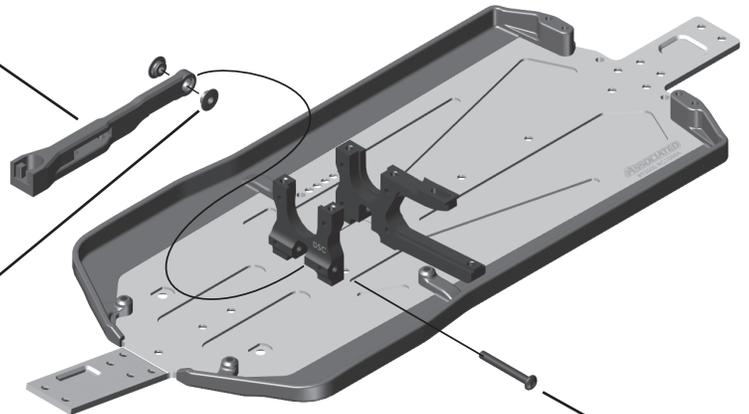
Kit build for carpet kit



92504
B84 FT Carbon Chassis brace, front (motor forward)

92503
B84 Chassis brace, front (motor forward)

92503
Pivot, plastic



89204
3x24mm BHCS



Note arrow indicates motor forward or back



:: Bag 1 - Step 3

Kit build for carpet kit



92504
B84 FT Carbon Chassis brace, rear (motor forward)

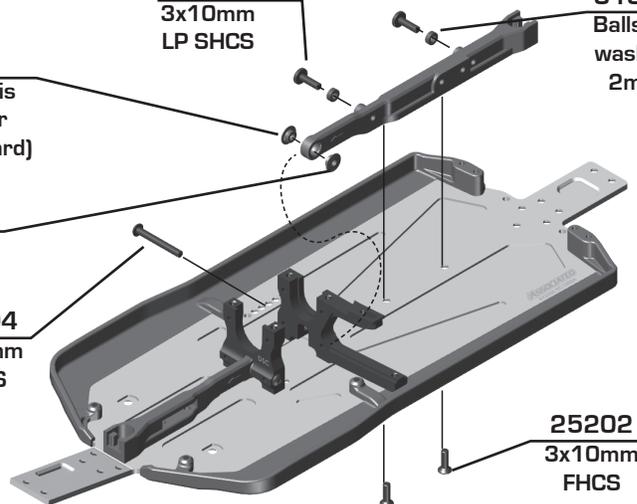
92503
B84 Chassis brace, rear (motor forward)

92503
Pivot, plastic

89204
3x24mm BHCS

41090 x2
3x10mm LP SHCS

31383 x2
Ballstud washer, 2mm



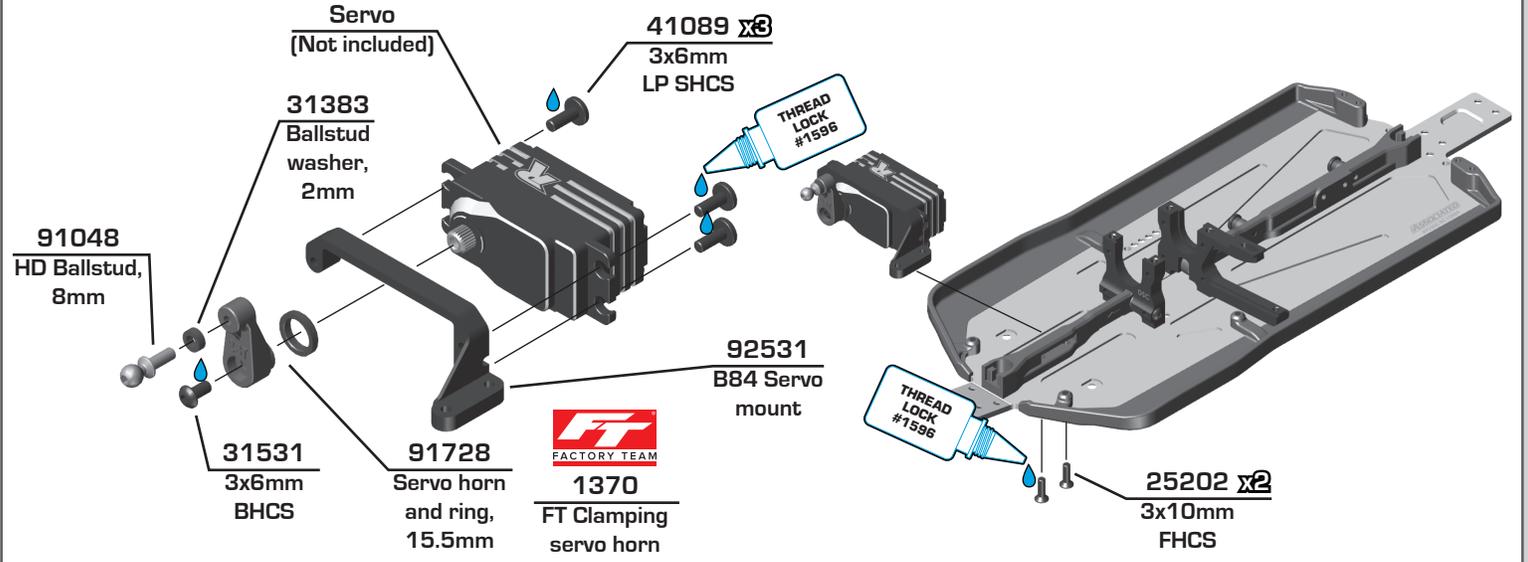
25202 x2
3x10mm FHCS



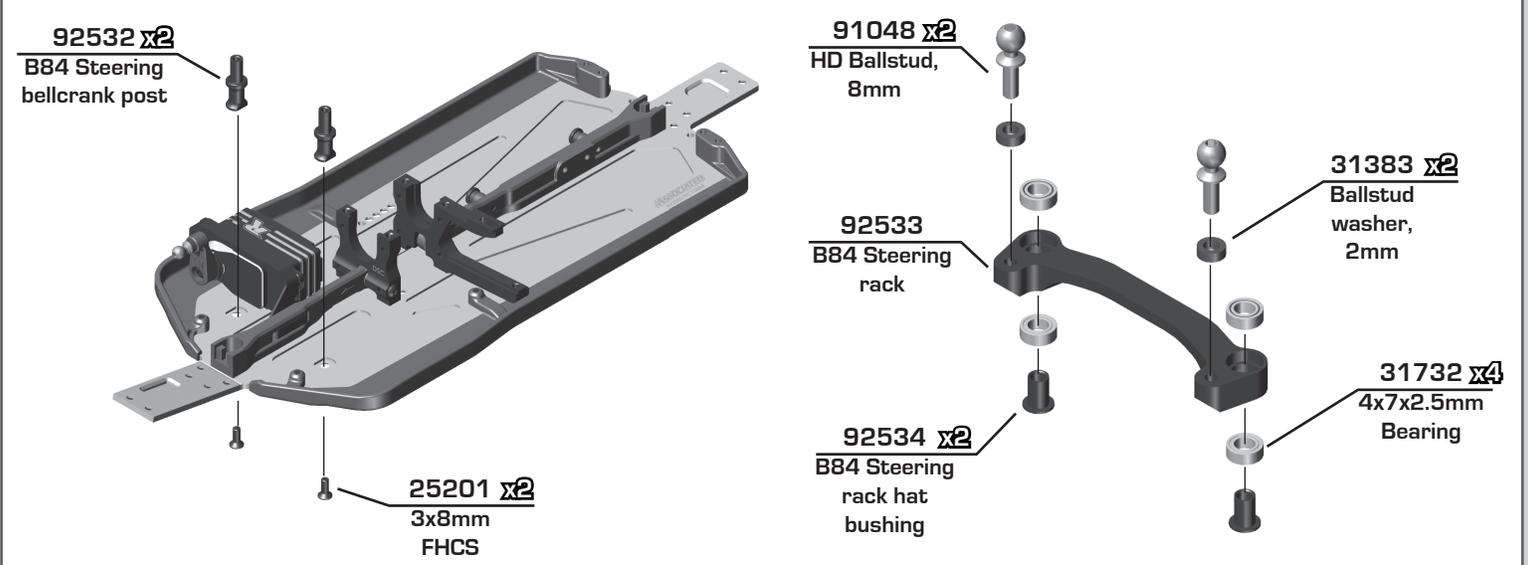
Note arrow indicates motor forward or back



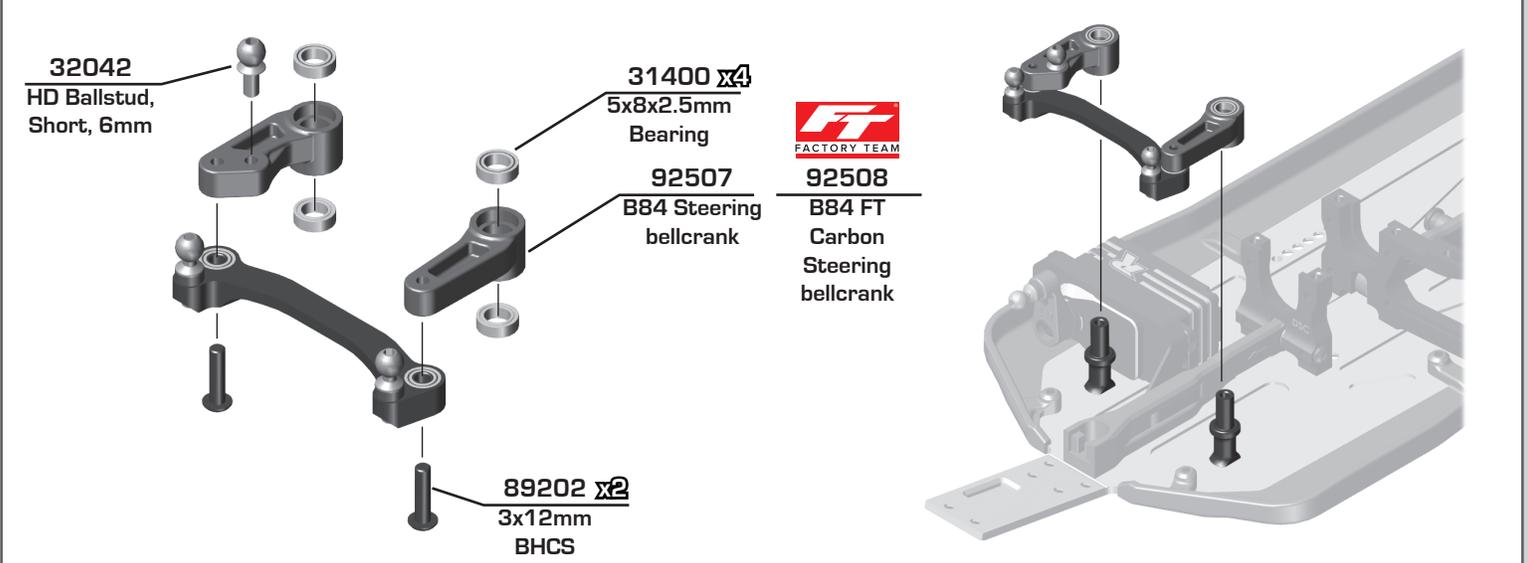
Bag 1 - Step 4



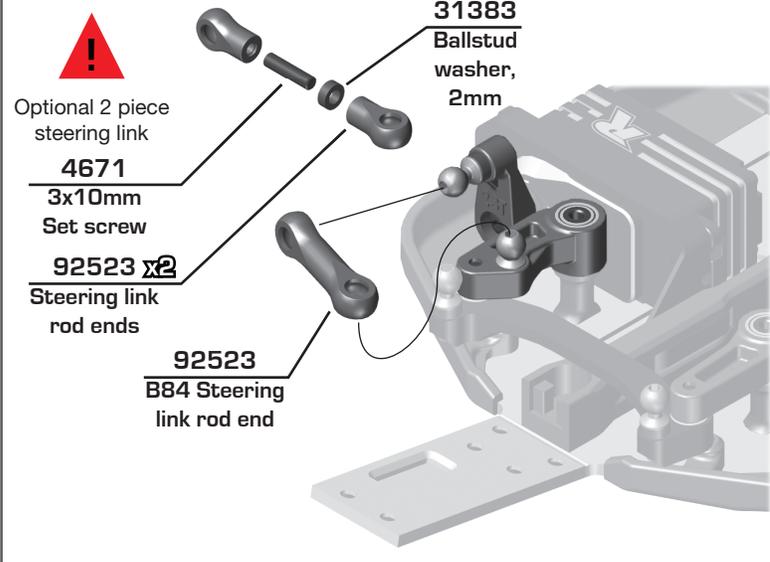
Bag 1 - Step 5



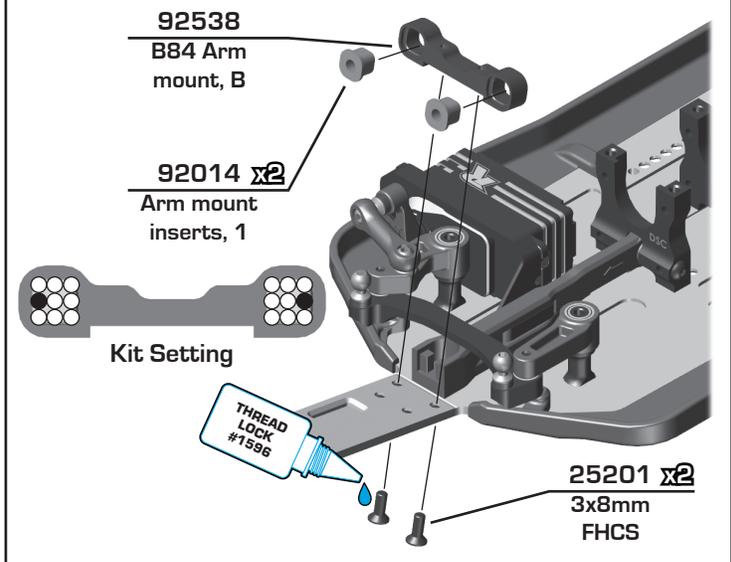
Bag 1 - Step 6



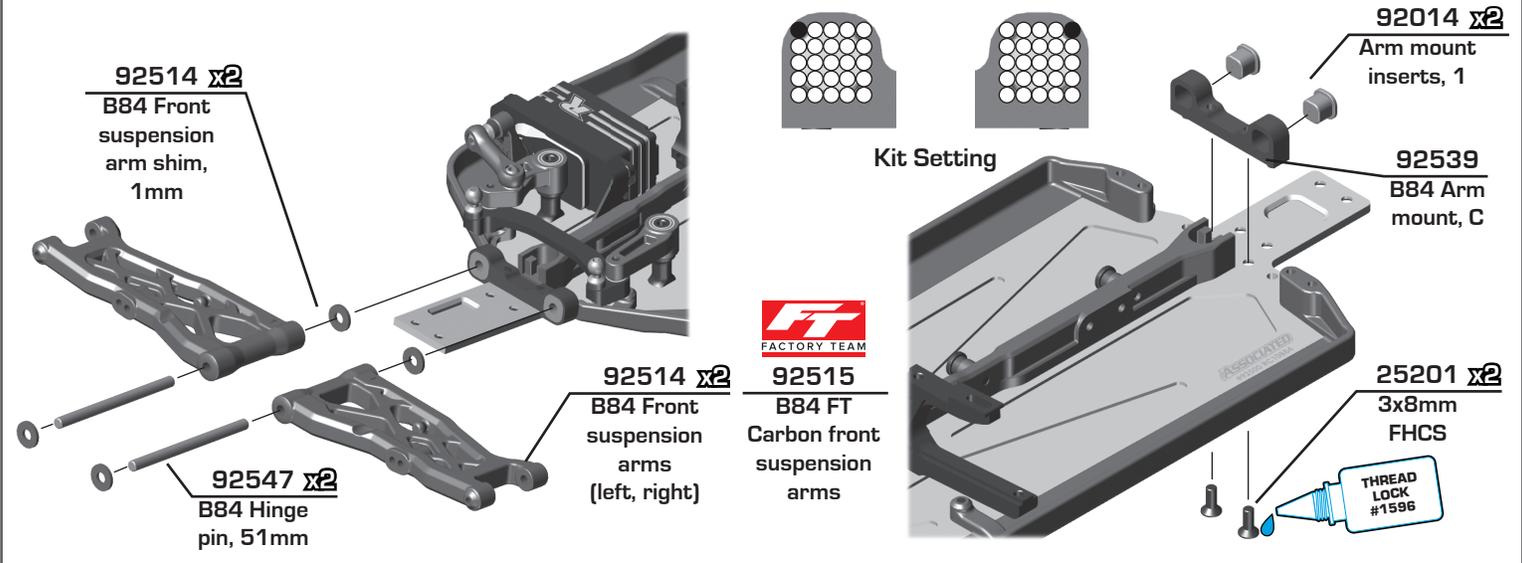
:: Bag 1 - Step 7



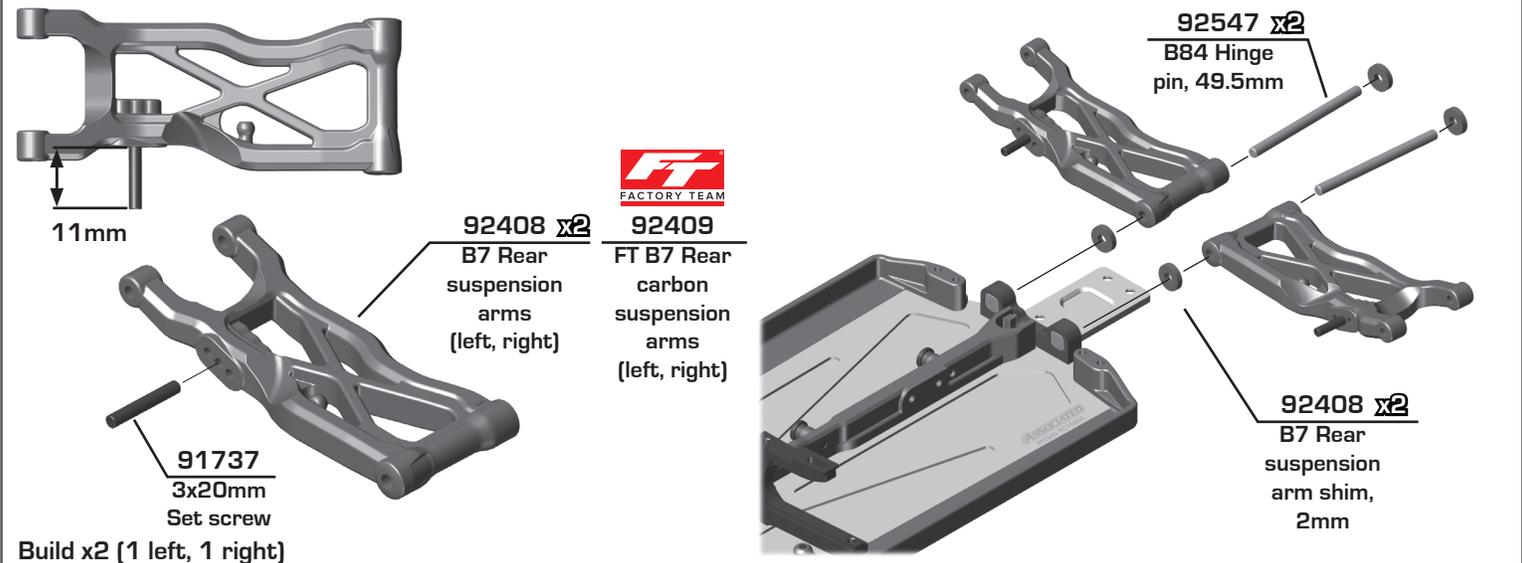
:: Bag 2 - Step 1



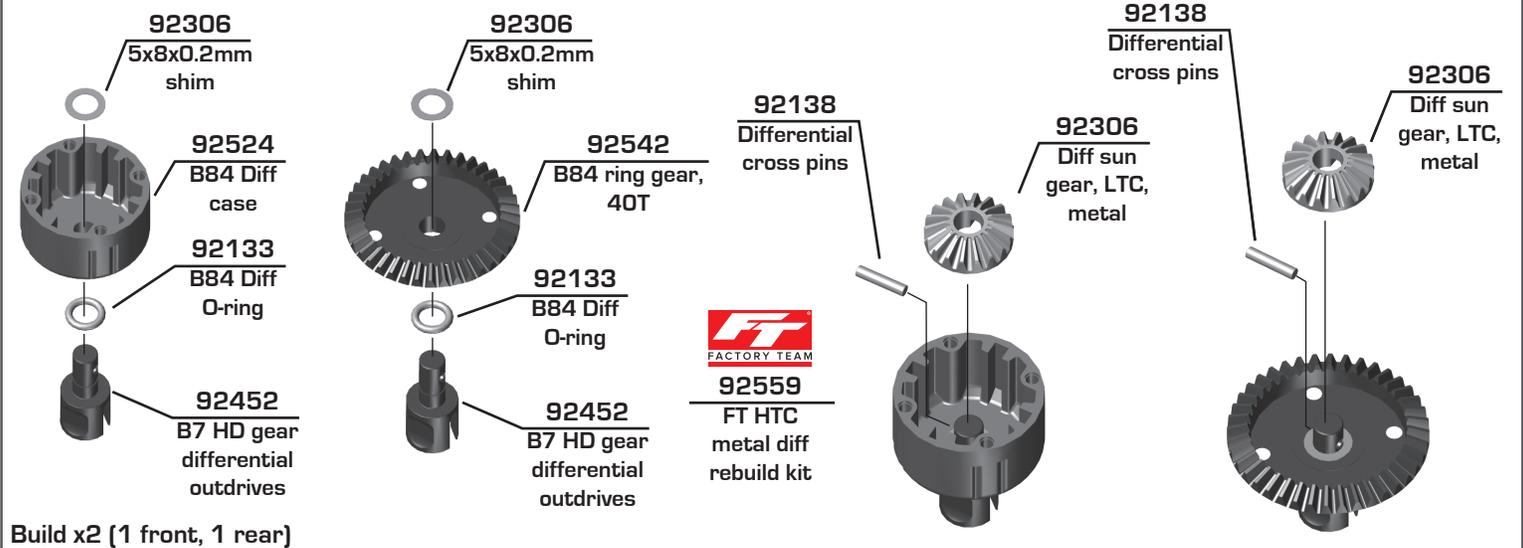
:: Bag 2 - Step 2



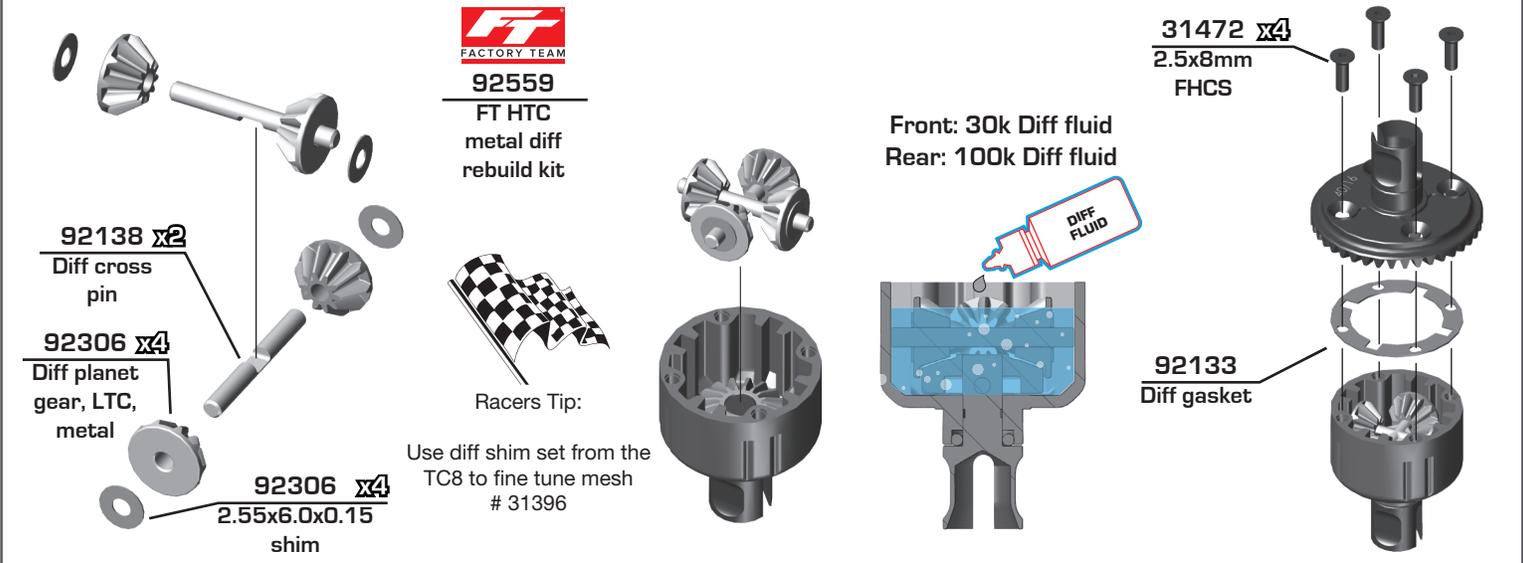
:: Bag 2 - Step 3



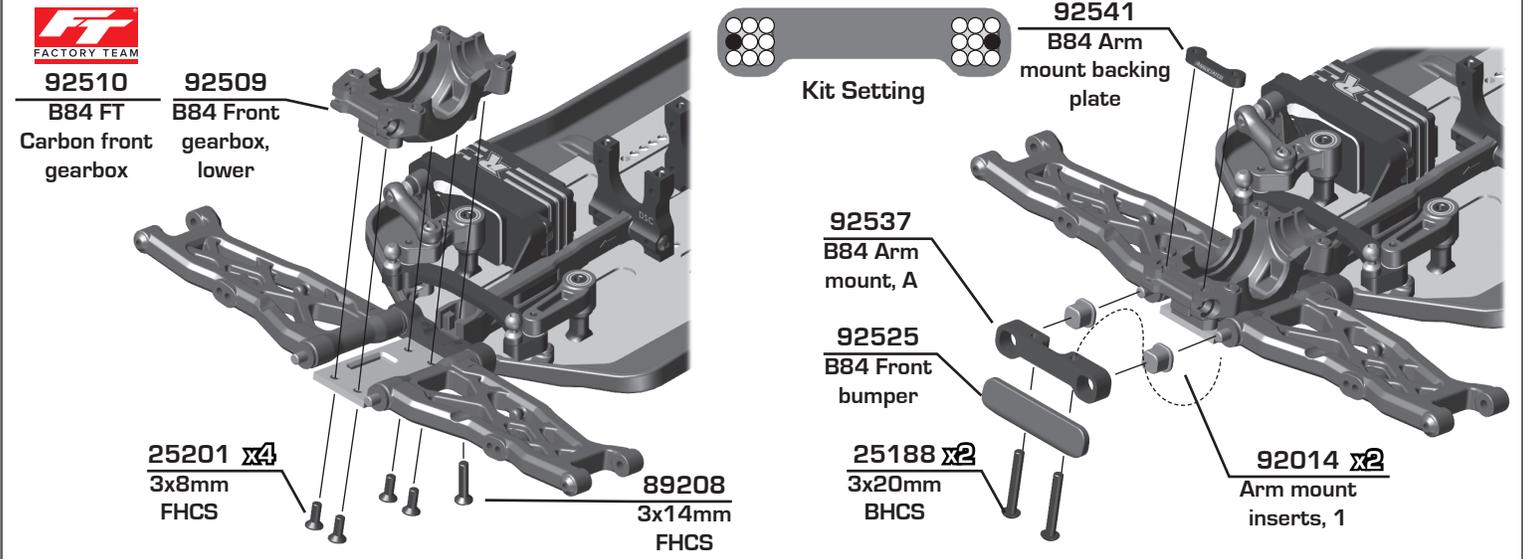
Bag 3 - Step 1



Bag 3 - Step 2



Bag 4 - Step 1



Bag 4 - Step 2

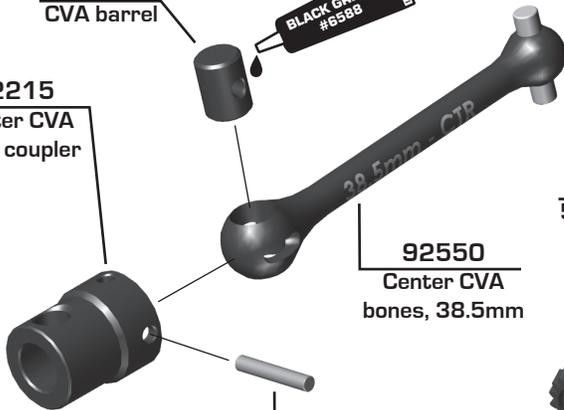


92264
FT CVA
cup, center,
aluminum

92215
Center CVA
input coupler

91438
CVA barrel

BLACK GREASE
#6588



91438
CVA pin

92550
Center CVA
bones, 38.5mm

92513
B84 Diff pinion
height insert,
0

92324 x2
5x10x4mm
flanged
bearing

92142
Differential
pinion gear,
16T



Note:
0 diff height recommended
for Low Profile front tires.
+2 diff height recommended
for standard front tires.

92216
CVA cup, center,
aluminum



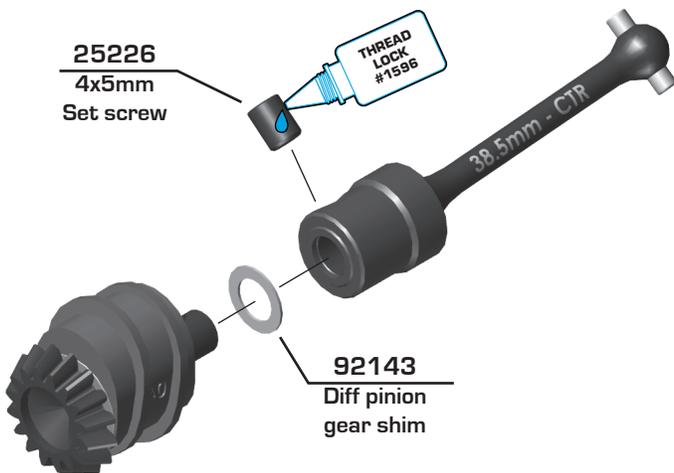
92319
Differential Pinion
Gear Shims,
5 x 6.5 x 1mm

Number shown on the
side of the insert after
insertion should match the
diff height desired.
Kit setup: "0"

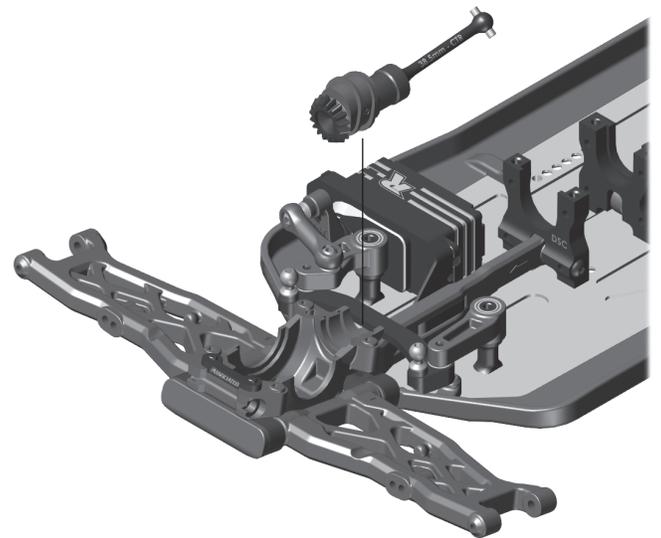
Bag 4 - Step 3

25226
4x5mm
Set screw

THREAD
LOCK
#1586



92143
Diff pinion
gear shim



Bag 4 - Step 4

92139 x2
Diff outdrive
shims

91563 x2
10x15x4mm
bearing

92513 x2
B84 Diff height
inserts,
(kit setting 0)



Start by shimming the diff with one shim on either
side of the diff. If the diff is tight when inserted into
the gearbox, remove one shim from the ring gear
side and add it to the diff case side.



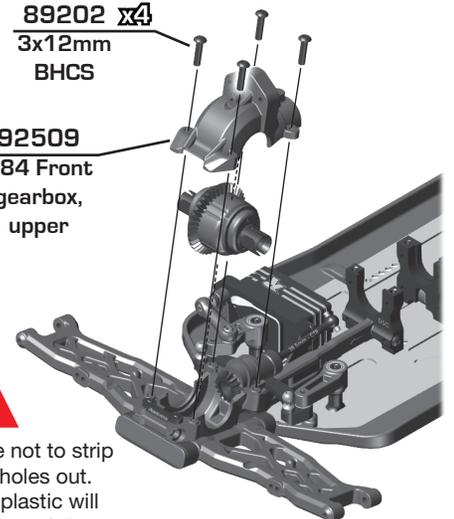
92510
B84 FT
Carbon front
gearbox

89202 x4
3x12mm
BHCS

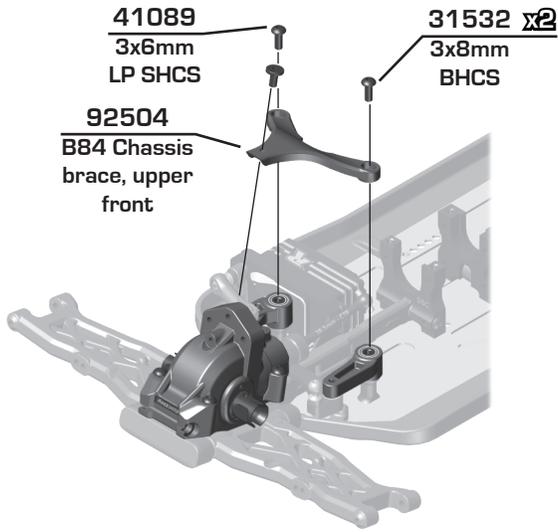
92509
B84 Front
gearbox,
upper



Take extra care not to strip
these screw holes out.
Stripping the plastic will
result in premature failure.

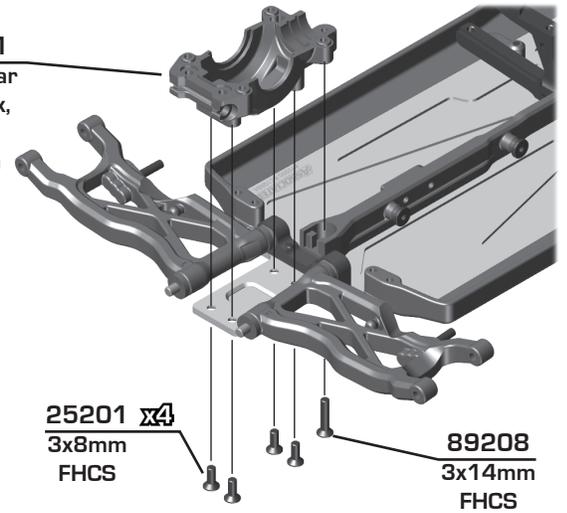


Bag 4 - Step 5

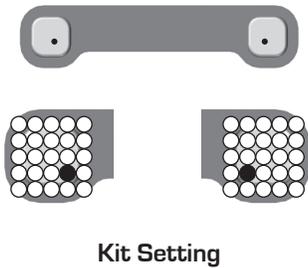


92512
B84 FT
Carbon rear
gearbox,
+2mm

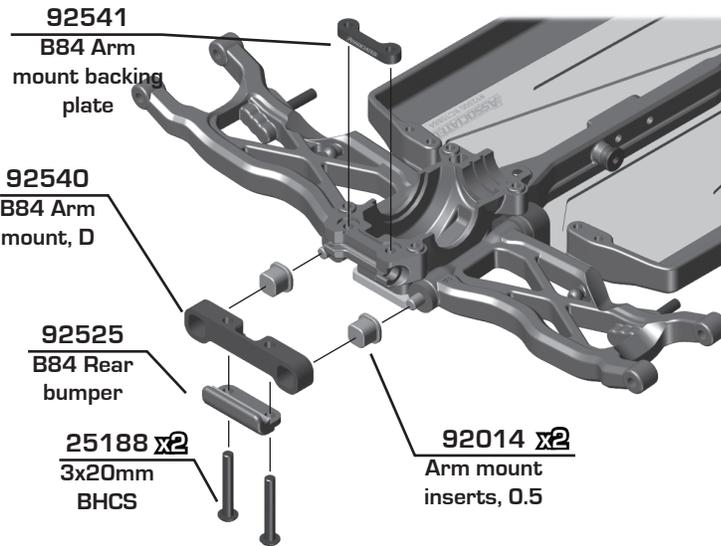
92511
B84 Rear
gearbox,
lower,
+2mm



Bag 4 - Step 6



Kit Setting



Bag 4 - Step 7



92264
FT CVA
cup, center,
aluminum

91438
CVA barrel



92215
Center CVA
input coupler

91438
CVA pin



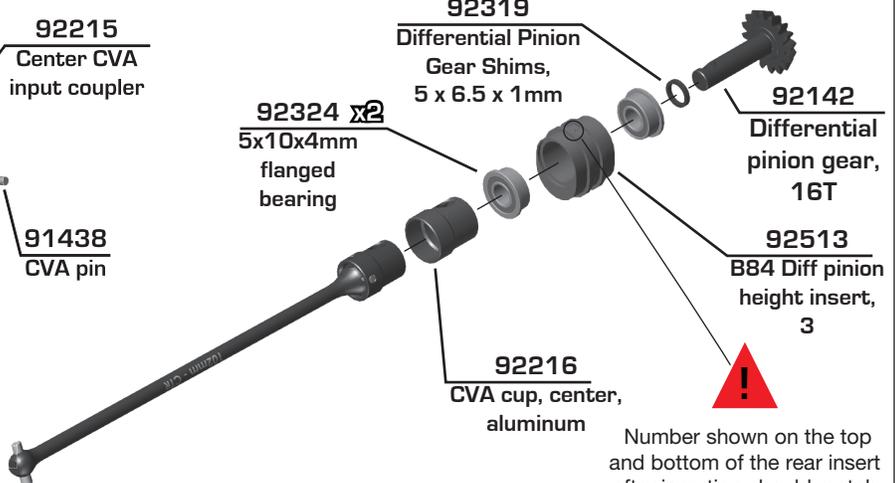
92319
Differential Pinion
Gear Shims,
5 x 6.5 x 1mm

92324 x2
5x10x4mm
flanged
bearing

92142
Differential
pinion gear,
16T

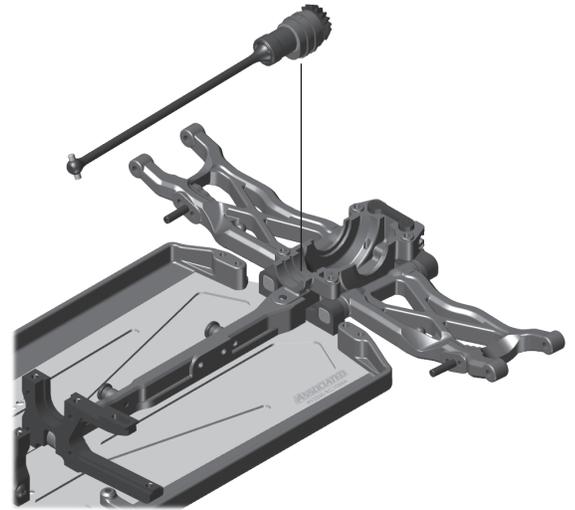
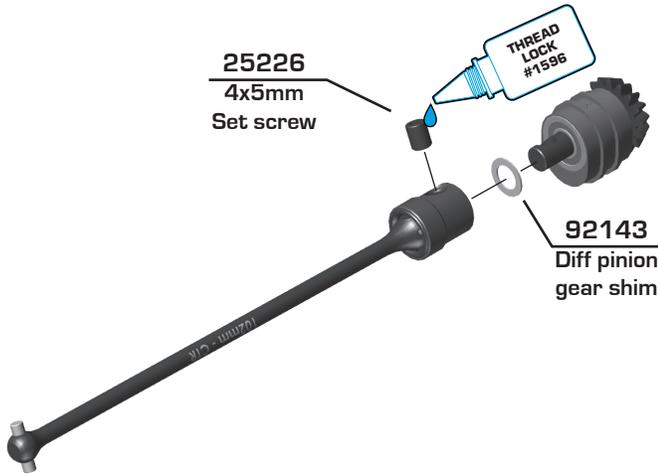
92513
B84 Diff pinion
height insert,
3

92216
CVA cup, center,
aluminum



Number shown on the top and bottom of the rear insert after insertion should match the diff height desired.
Kit setup: "3"

:: Bag 4 - Step 8



:: Bag 4 - Step 9



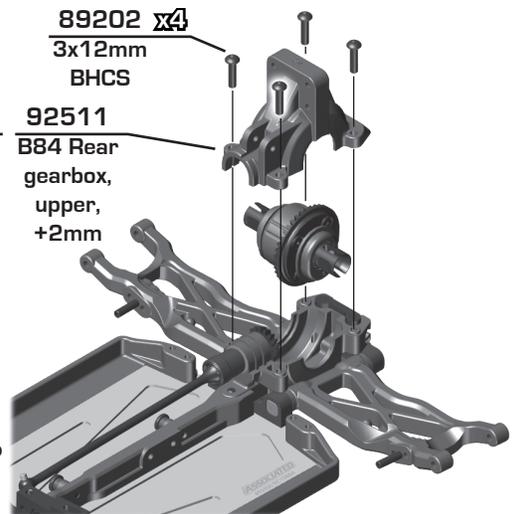
Start by shimming the diff with one shim on either side of the diff. If the diff is tight when inserted into the gearbox, remove one shim from the ring gear side and add it to the diff case side.



92512
B84 FT
Carbon rear
gearbox,
+2mm

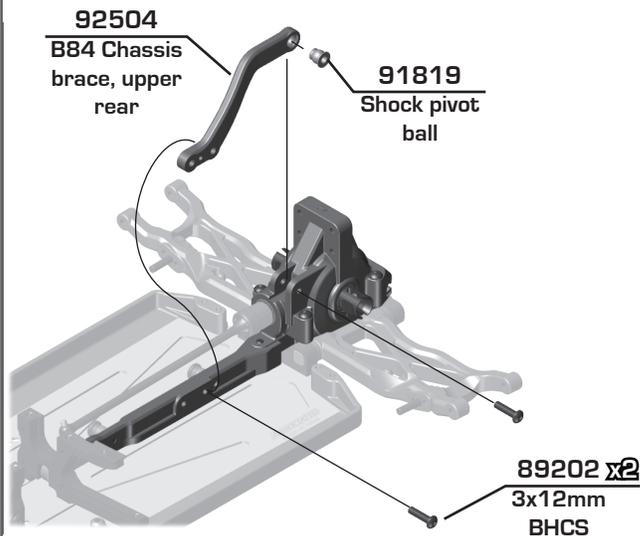
89202 x4
3x12mm
BHCS

92511
B84 Rear
gearbox,
upper,
+2mm

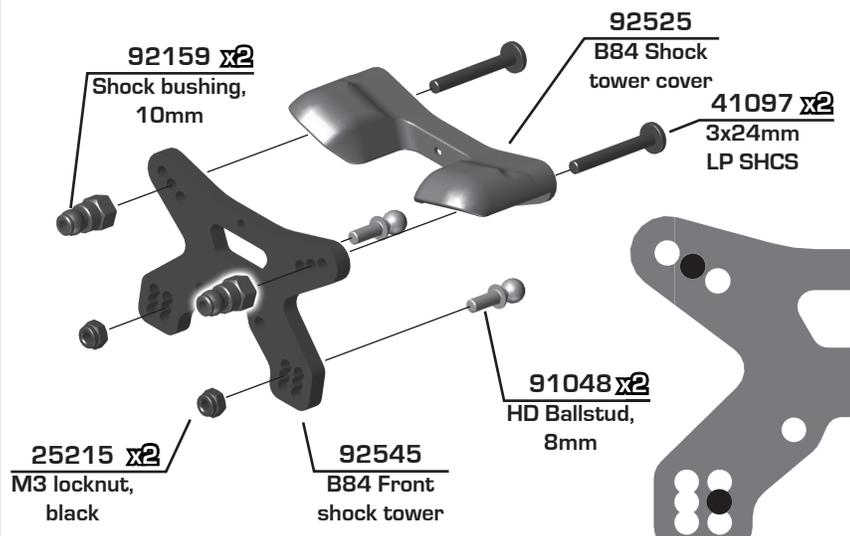


Take extra care not to strip these screw holes out. Stripping the plastic will result in premature failure.

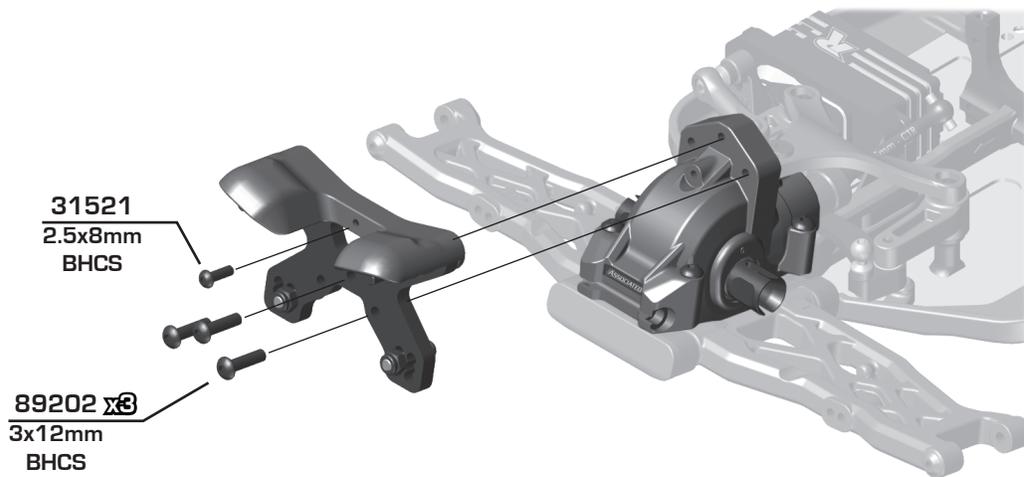
:: Bag 4 - Step 10



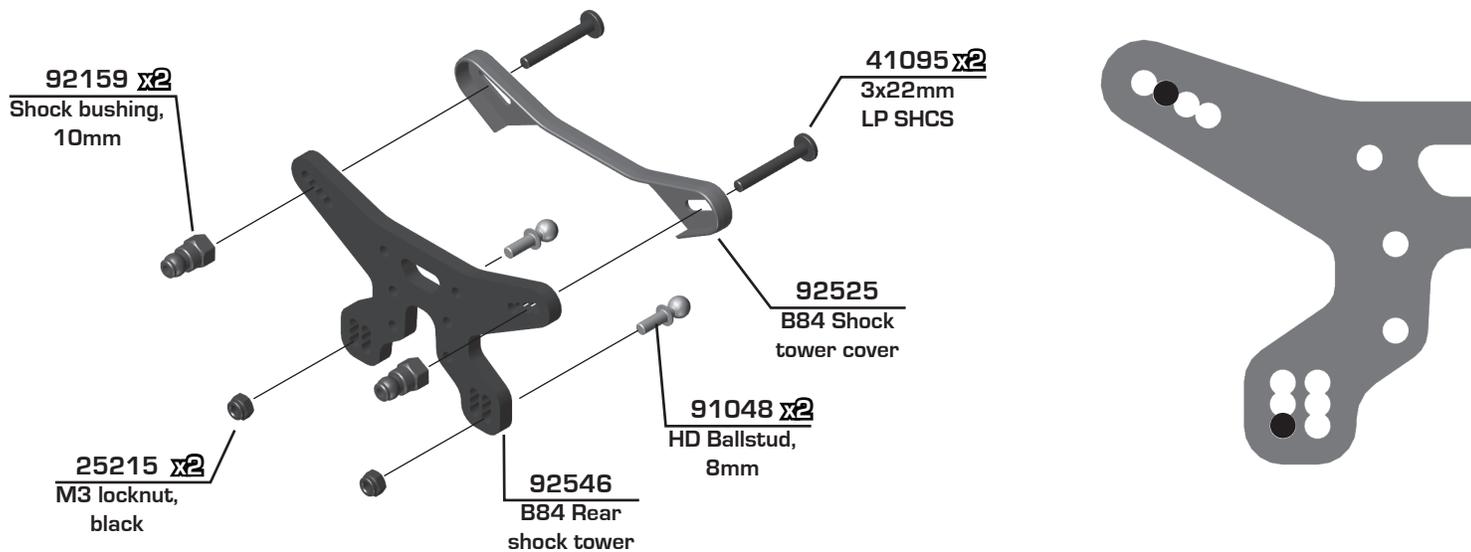
:: Bag 5 - Step 1



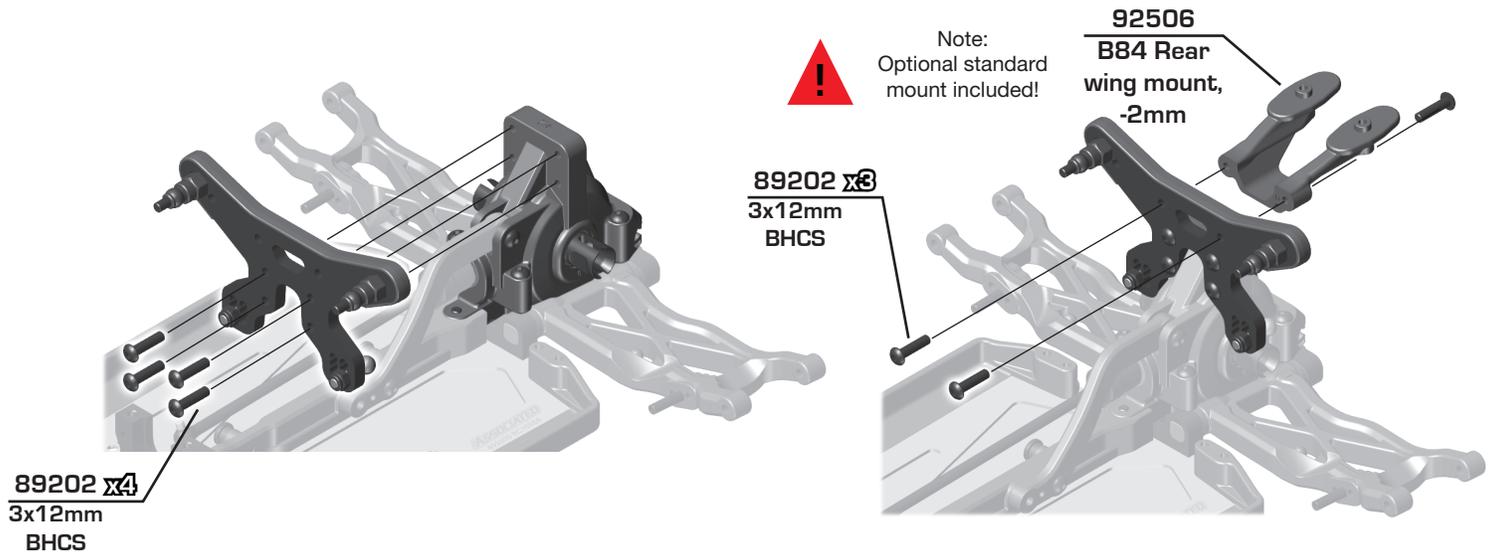
Bag 5 - Step 2



Bag 5 - Step 3



Bag 5 - Step 4



Bag 6 - Step 1

91047 HD Ballstud, 6mm

31532 x2 3x8mm BHCS

92376 Steering block arm, +2

92522 B84 Caster inserts, "0"

89202 x2 3x12mm BHCS

91676 Caster Hat Bushings

25215 M3 locknut

91560 5x10x4mm bearing

Thick

Thin

92171 Steering blocks

32043 Axle crush tubes, 5.6mm

91567 5x12x4mm bearing

91048 HD Ballstud, 8mm

31383 x2 Ballstud washer, 2mm

92535 B84 Caster block (left)

Note:
4mm recommended for Low Profile front tires.
2mm recommended for standard front tires.

Note:
There are three caster block inserts included (0°, +/- 1°, +/- 2°).
0° is the standard insert used.
Tab up = adds caster
Tab down = removes caster

Build x2
(1 left side, 1 right side)

Bag 6 - Step 2

91438 CVA barrel

92548 CVA bones, 78.5mm

91438 CVA pin

92191 Front CVA axle

92263 Front CVA retainer

BLACK GREASE #6588

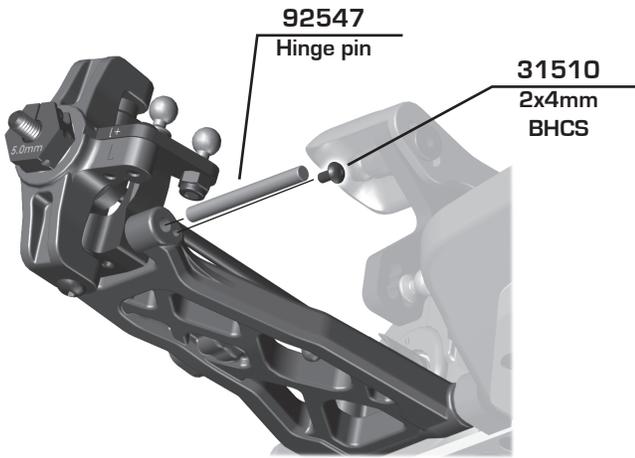
Bag 6 - Step 3

91436 CVA wheel hex pin

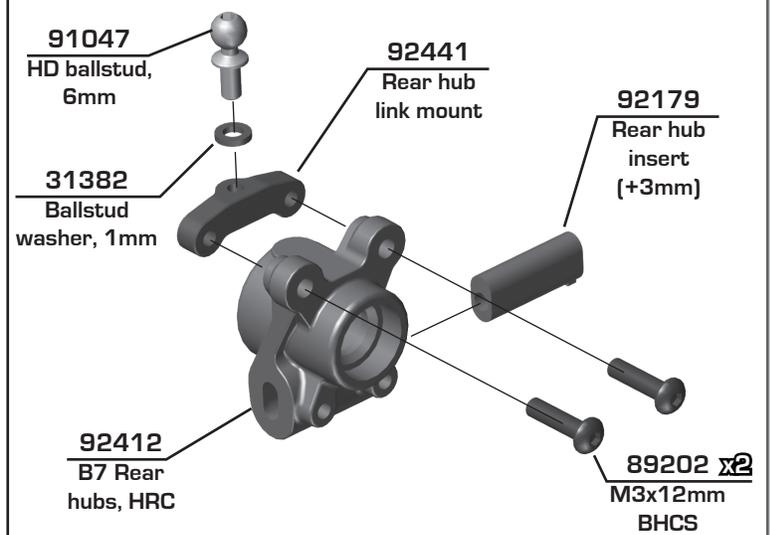
91609 FT clamping wheel hex, 5.0mm

91611 1.6x5mm SHCS

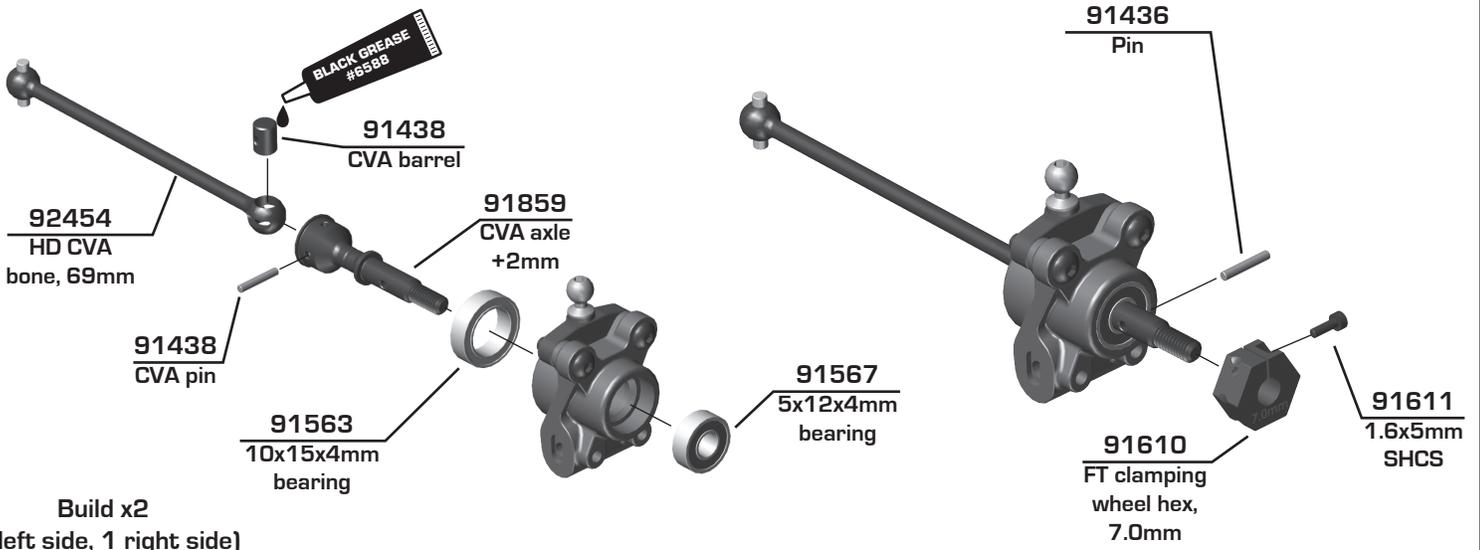
Bag 6 - Step 4



Bag 7 - Step 1

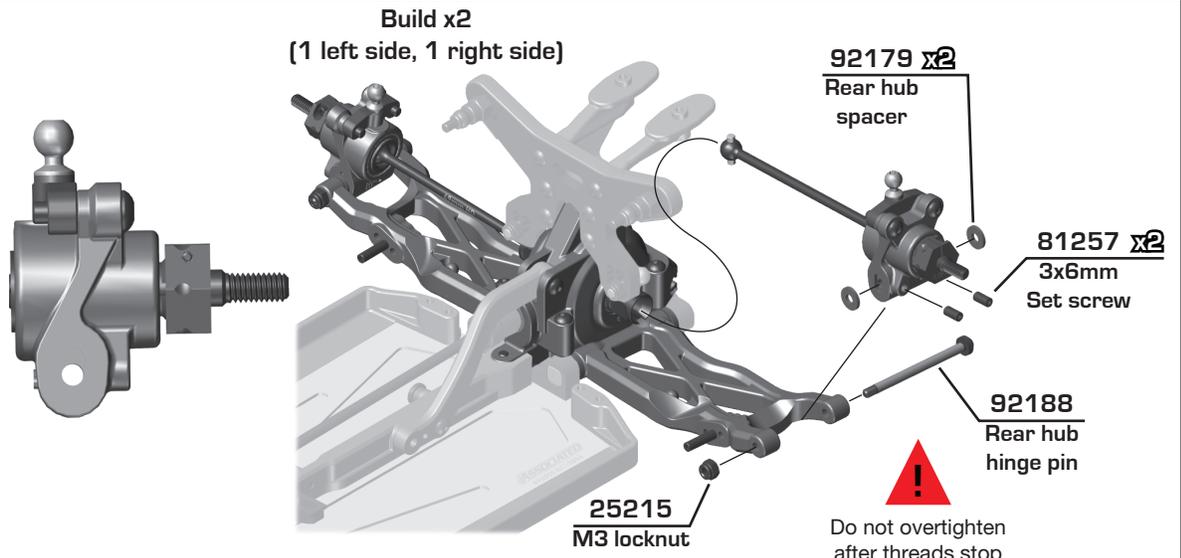


Bag 7 - Step 2

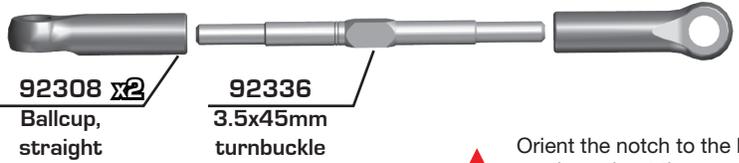
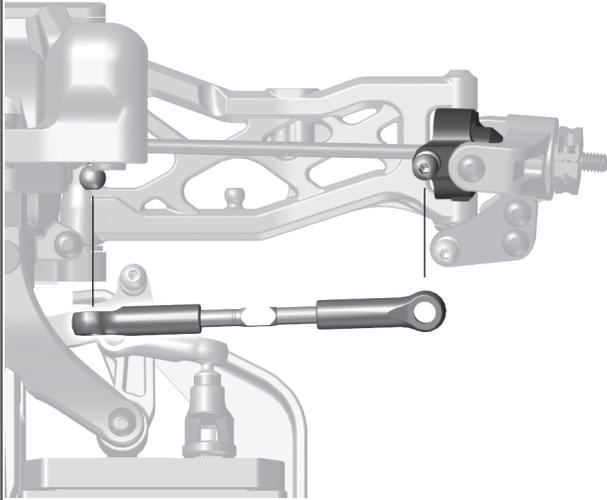


Bag 7 - Step 3

| Rear Axle Height | | | |
|------------------|-----|-----|------|
| | ↓ 0 | 3 ↑ | +3mm |
| | ↓ 1 | 2 ↑ | +2mm |
| | ↑ 1 | 2 ↓ | +1mm |
| | ↑ 0 | 3 ↓ | +0mm |



:: Bag 8 - Step 1



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

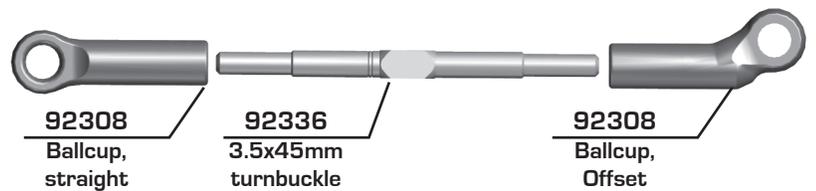
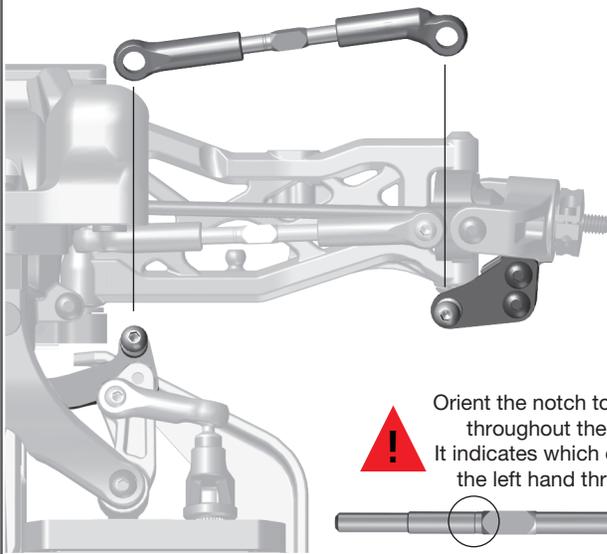


!
Note:
All turnbuckle inner measurements are approximate.



Build x2 (1 left side, 1 right side)

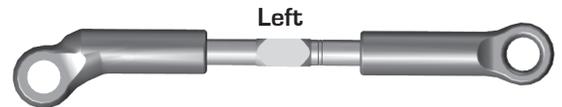
:: Bag 8 - Step 2



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



!
There is two offset ballcups labeled "1" and "2". The ballcup labeled "1" goes on the left side of the car.



Left

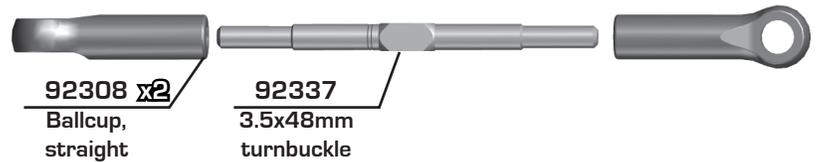
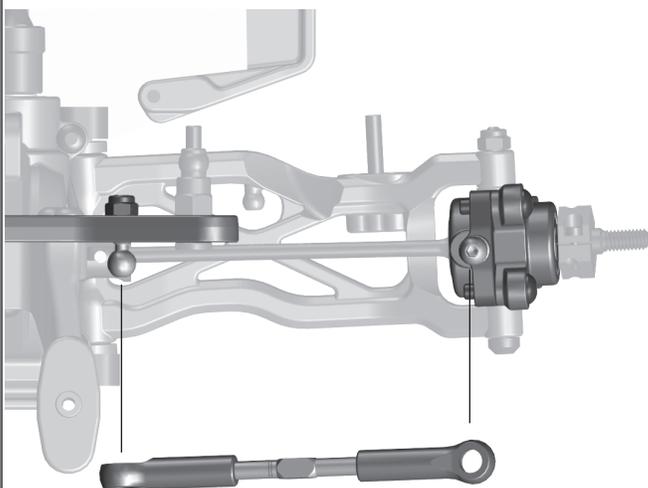


Right

21.2mm

Build x2 (1 left side, 1 right side)

:: Bag 8 - Step 3

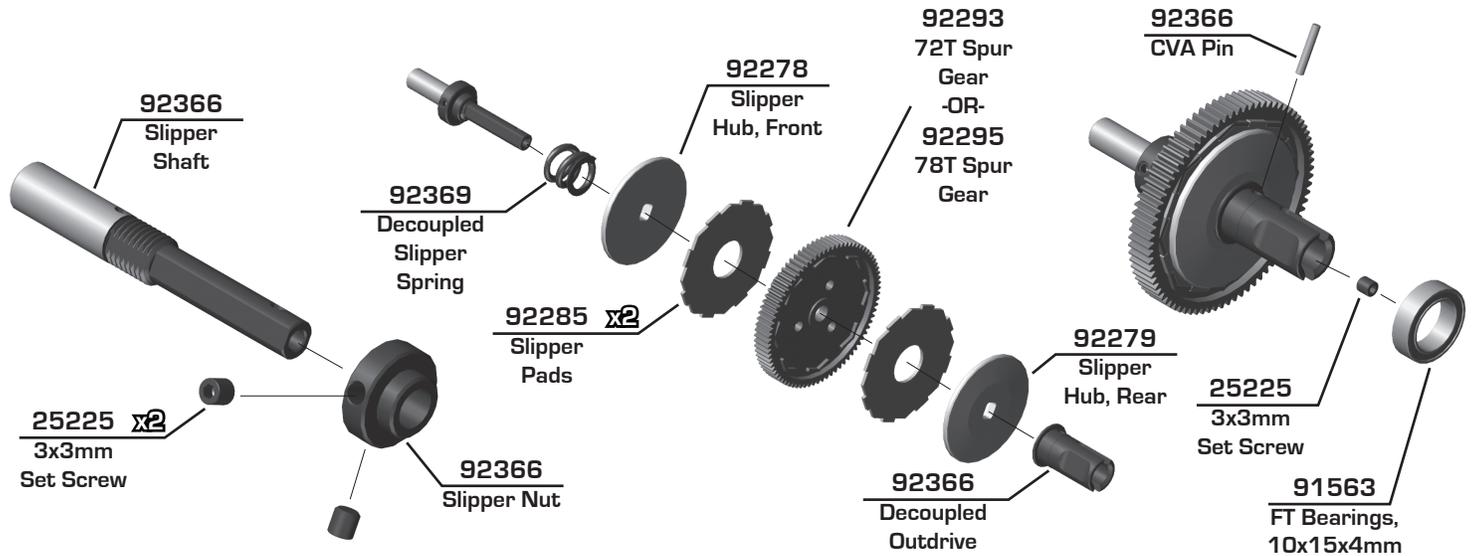


Build x2 (1 left side, 1 right side)

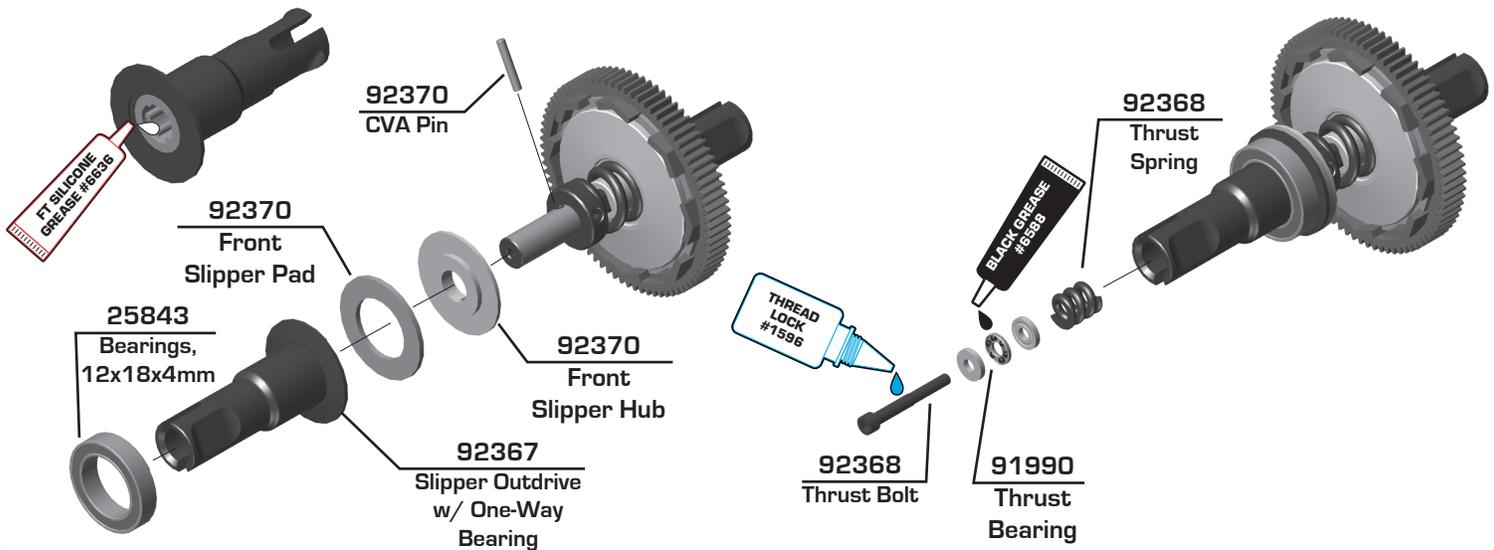
! Orient the notch to the left throughout the car. It indicates which end has the left hand threads!



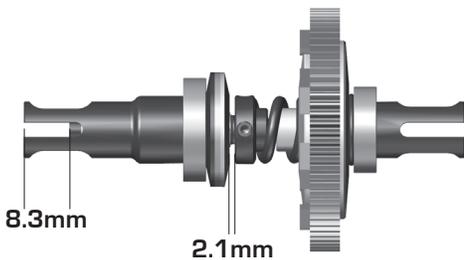
:: Bag 9 - Step 1



:: Bag 9 - Step 2



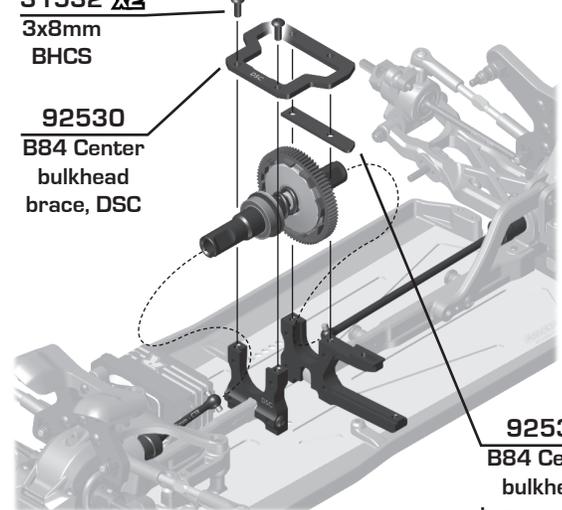
:: Bag 9 - Step 3



Note:
Two additional 3x8mm
BHCS for
center bulkhead brace
if not running fan
mount.

31532 x2
3x8mm
BHCS

92530
B84 Center
bulkhead
brace, DSC

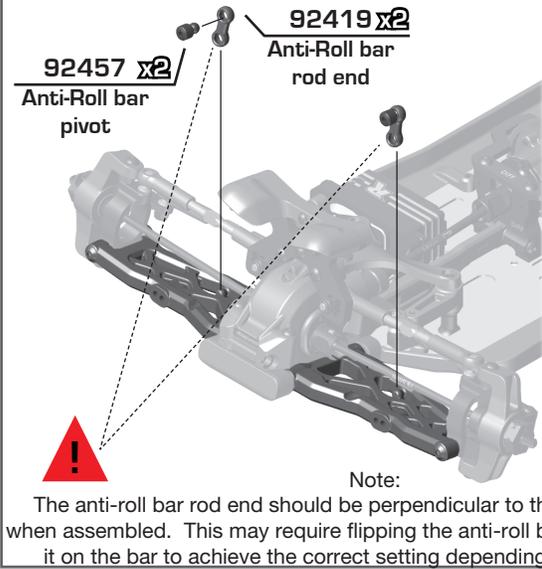


92530
B84 Center
bulkhead
brace spacer



Spur gear direction
has a cutout to fit over
the slipper housing

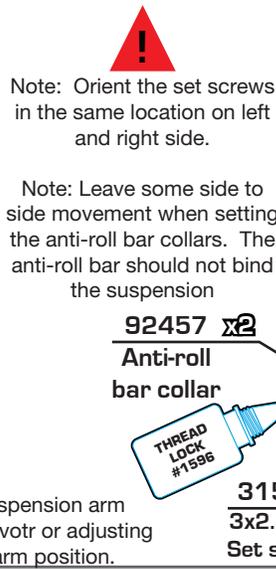
Bag 10 - Step 1



92457 x2
Anti-Roll bar pivot

92419 x2
Anti-Roll bar rod end

Note:
The anti-roll bar rod end should be perpendicular to the suspension arm when assembled. This may require flipping the anti-roll bar pivots or adjusting it on the bar to achieve the correct setting depending on arm position.



92457 x2
Anti-roll bar collar

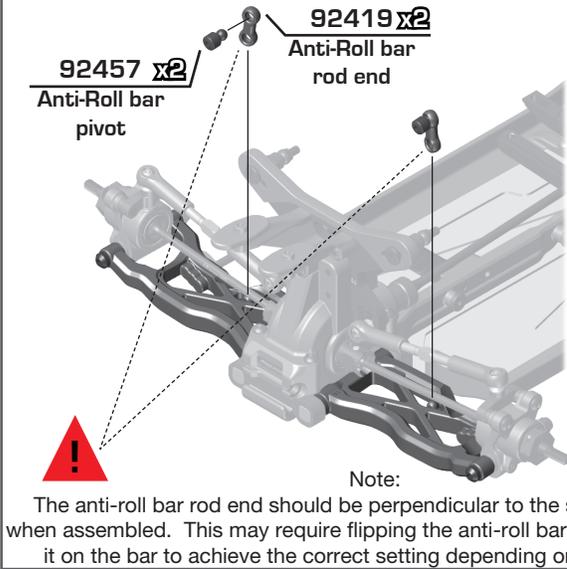
31500 x4
3x2.5mm Set screw

92552
Anti-Roll bar 1.8mm

Note: Orient the set screws in the same location on left and right side.

Note: Leave some side to side movement when setting the anti-roll bar collars. The anti-roll bar should not bind the suspension

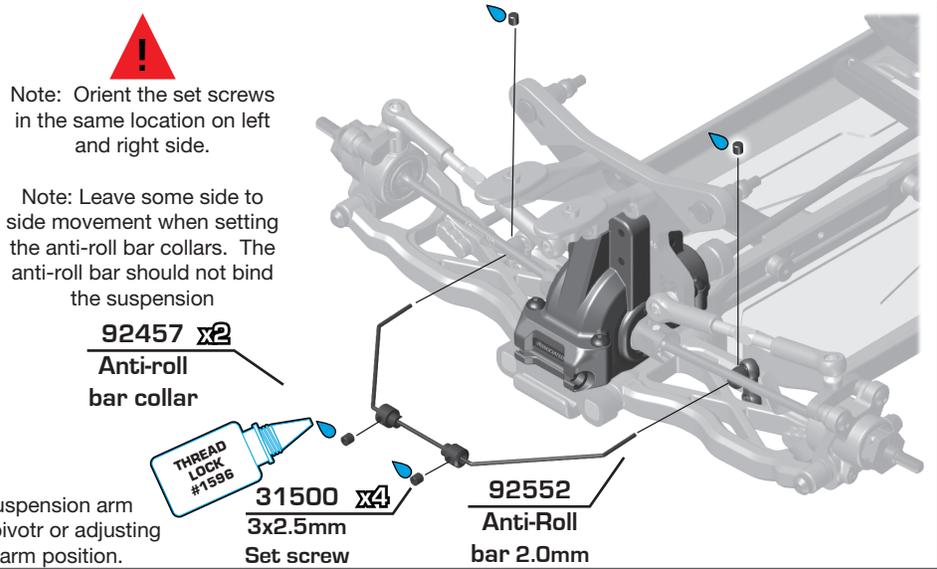
Bag 10 - Step 2



92457 x2
Anti-Roll bar pivot

92419 x2
Anti-Roll bar rod end

Note:
The anti-roll bar rod end should be perpendicular to the suspension arm when assembled. This may require flipping the anti-roll bar pivots or adjusting it on the bar to achieve the correct setting depending on arm position.



92457 x2
Anti-roll bar collar

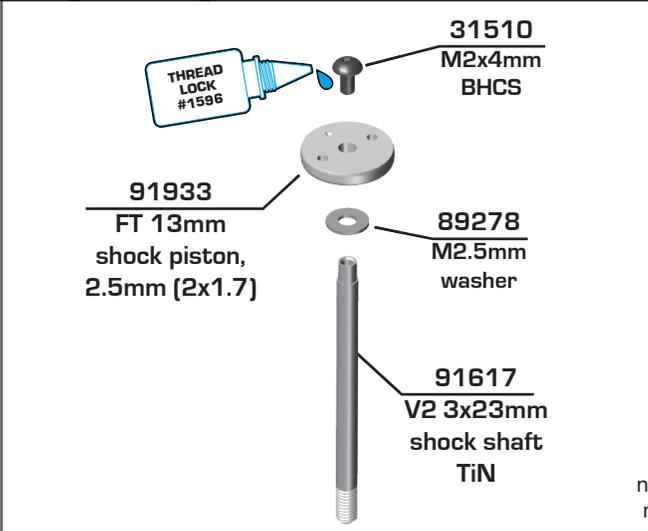
31500 x4
3x2.5mm Set screw

92552
Anti-Roll bar 2.0mm

Note: Orient the set screws in the same location on left and right side.

Note: Leave some side to side movement when setting the anti-roll bar collars. The anti-roll bar should not bind the suspension

Bag 11 - Step 1



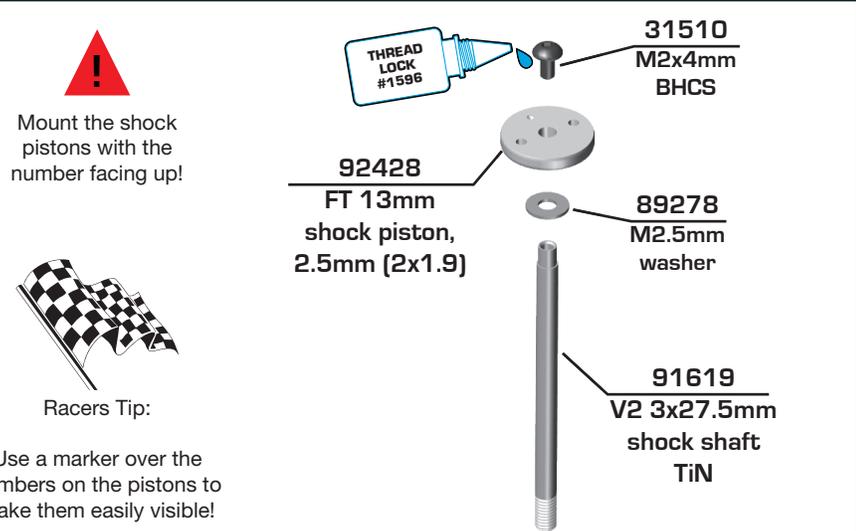
31510
M2x4mm BHCS

91933
FT 13mm shock piston, 2.5mm (2x1.7)

89278
M2.5mm washer

91617
V2 3x23mm shock shaft TiN

Build x2 front shocks



31510
M2x4mm BHCS

92428
FT 13mm shock piston, 2.5mm (2x1.9)

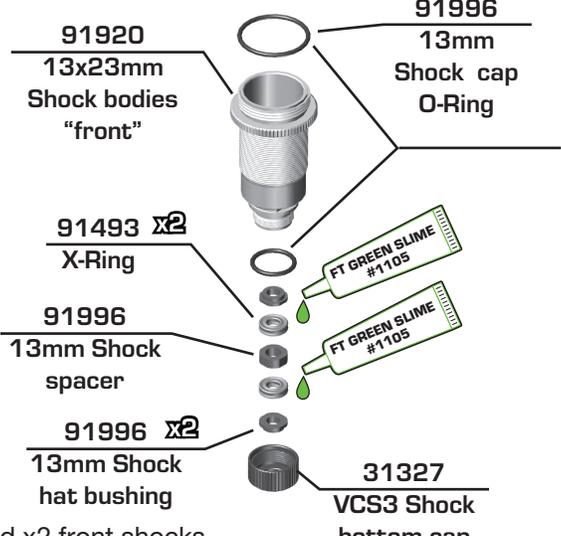
89278
M2.5mm washer

91619
V2 3x27.5mm shock shaft TiN

Racers Tip:
Mount the shock pistons with the number facing up!
Use a marker over the numbers on the pistons to make them easily visible!

Build x2 rear shocks

Bag 11 - Step 2



91920
13x23mm
Shock bodies
"front"

91493 x2
X-Ring

91996
13mm Shock
spacer

91996 x2
13mm Shock
hat bushing

31327
VCS3 Shock
bottom cap

91996
13mm
Shock cap
O-Ring

FT GREEN SLIME #1105

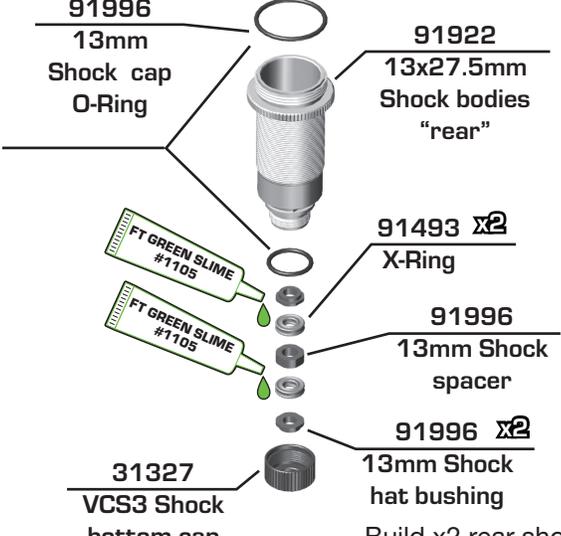


Lightly rub shock oil on the O-ring before installation!



Racers Tip:

Coating the O-rings with green slime (#1105) helps seal & reduce O-ring swell! Green slime not included in kit!



91996
13mm
Shock cap
O-Ring

91922
13x27.5mm
Shock bodies
"rear"

91493 x2
X-Ring

91996
13mm Shock
spacer

91996 x2
13mm Shock
hat bushing

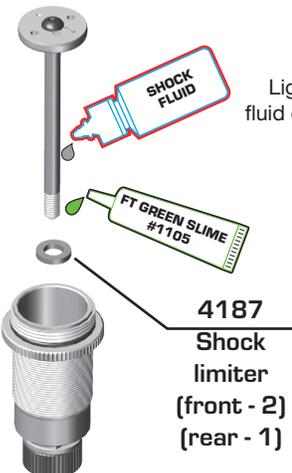
31327
VCS3 Shock
bottom cap

FT GREEN SLIME #1105

Build x2 front shocks

Build x2 rear shocks

Bag 11 - Step 3



4187
Shock
limiter
(front - 2)
(rear - 1)



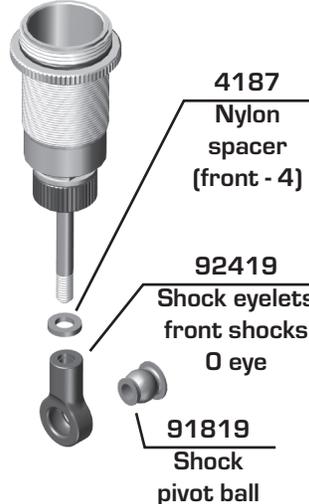
Lightly rub shock fluid or green slime on threads



There are 3 lengths of shock eyelet in the kit. Pay attention to length when building as these affect your droop and uptravel.



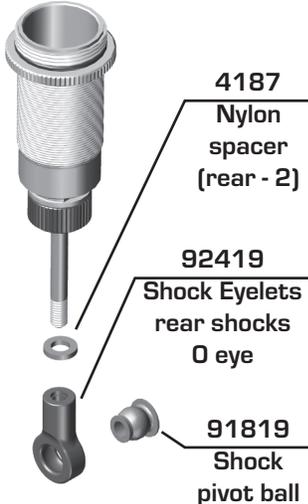
0mm +2mm +4mm



4187
Nylon
spacer
(front - 4)

92419
Shock eyelets
front shocks
O eye

91819
Shock
pivot ball



4187
Nylon
spacer
(rear - 2)

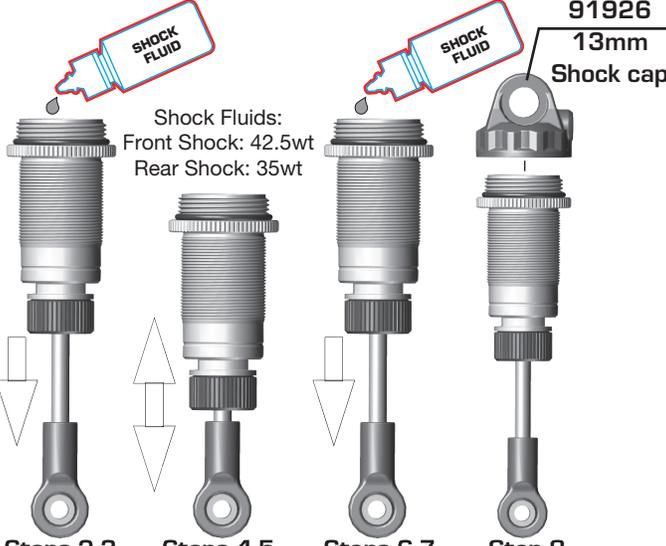
92419
Shock Eyelets
rear shocks
O eye

91819
Shock
pivot ball

Build x2 front shocks

Build x2 rear shocks

Bag 11 - Step 4



Shock Fluids:
Front Shock: 42.5wt
Rear Shock: 35wt

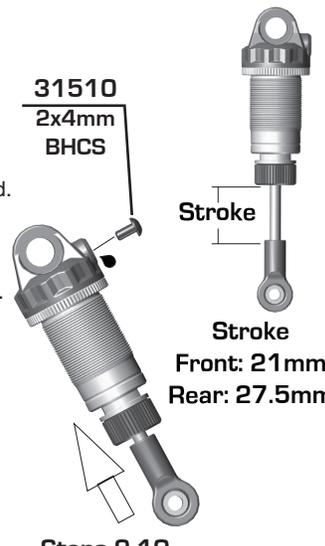
91926
13mm
Shock cap

31510
2x4mm
BHCS

Steps 2-3 Steps 4-5 Steps 6-7 Step 8 Steps 9-10

Shock Bleeding Steps:

1. Before assembly, get each bleed screw and thread it 1-2 turns into the shock cap, then remove the screw. This will make it easier when you are bleeding your shocks.
2. Pull shock shaft down.
3. Fill shock body 3/4 full with silicone shock fluid.
4. Slowly move the shock shaft up and down to remove air from under the piston.
5. Wait for bubbles to come to surface.
6. Fill shock body to top with silicone shock fluid.
7. Place a drop of oil in the cap and on cap threads.
8. Install cap (without bleed screw) and tighten completely.
9. Slowly compress shaft all the way to bleed excess silicone shock fluid out the hole in the cap (use rag around shock to catch excess fluid).
10. Install M2x4mm button head screw until snug while shaft is fully compressed.



Stroke
Front: 21mm
Rear: 27.5mm

Bag 11 - Step 5

91996 x4
13mm
Threaded
collar
O-ring

91928 x4
13mm
Threaded
collar

91946
13mm Front
spring, purple
(4.60lb)

91958
13mm Rear
spring, orange
(2.50lb)

Racers Tip:
Use your finger to rub shock
fluid on the O-ring for smoother
adjustment!

Build x4

Bag 11 - Step 6

Set height
after
assembly

91926
13mm Shock
spring cup
"front - 5mm"

#91966 13mm Shock Spring Cups
0mm 5mm 9mm

91966
13mm Shock
spring cup
"rear - 0mm"

Hold shock mounting
hardware until after
anti-roll bar installation.

Build x2 front shocks

Build x2 rear shocks

Bag 11 - Step 7

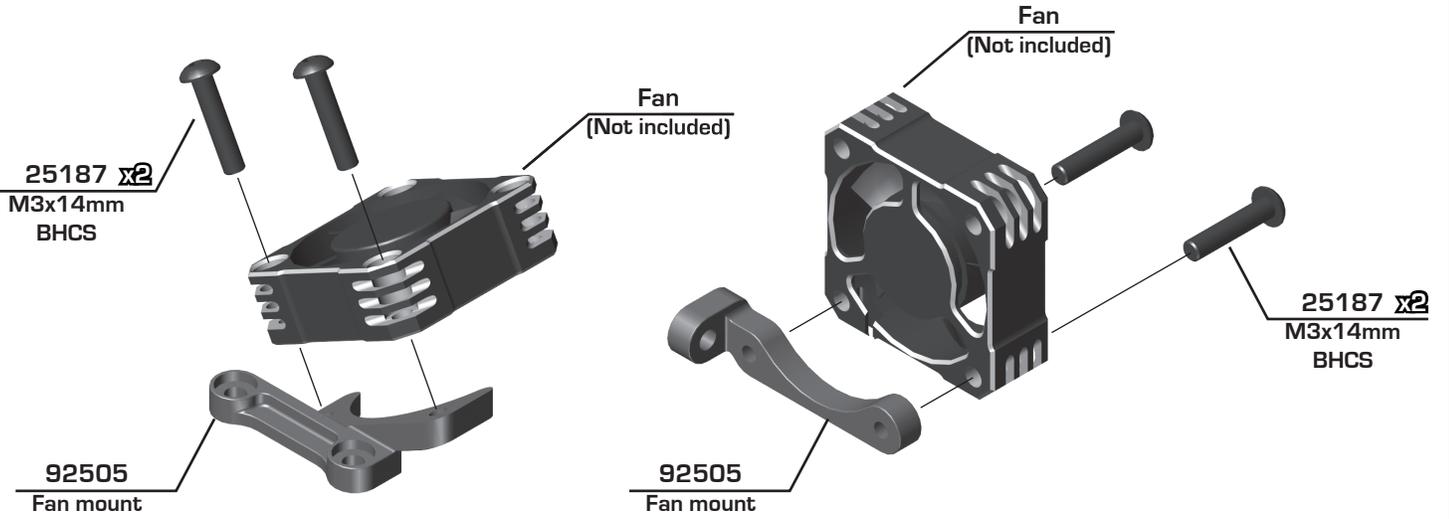
Install x2 front and x2 rear shocks

25612
M3 flanged
nut, black

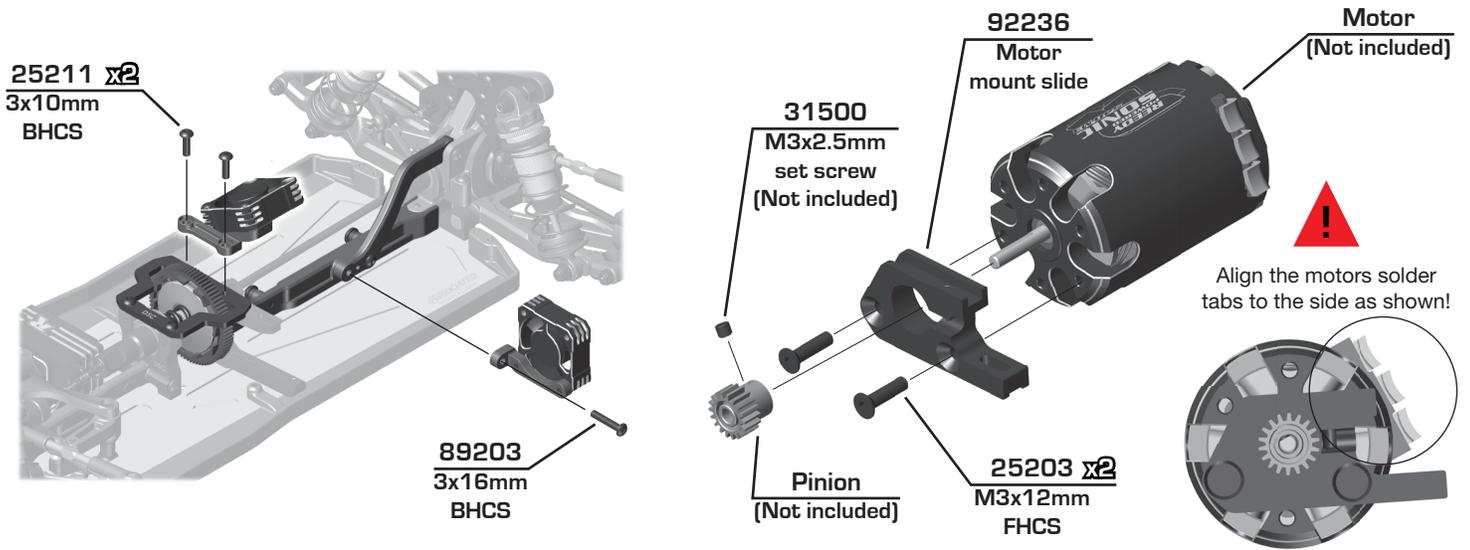
25187
M3x14mm
BHCS

25612 x2
M3 flanged
nut, black

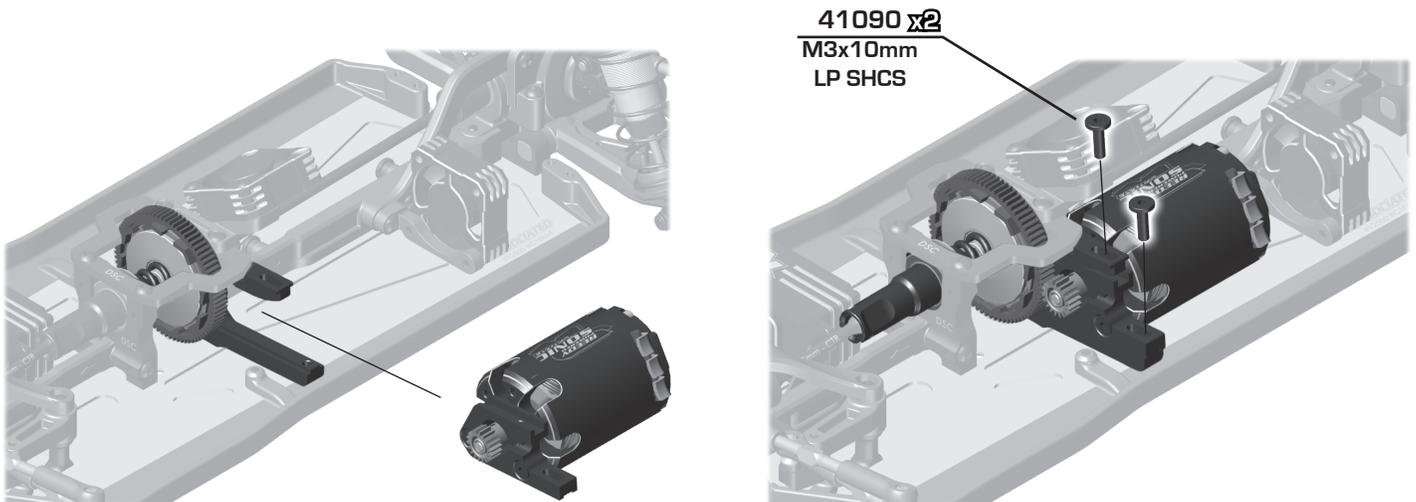
⚡ Bag 12 - Step 1



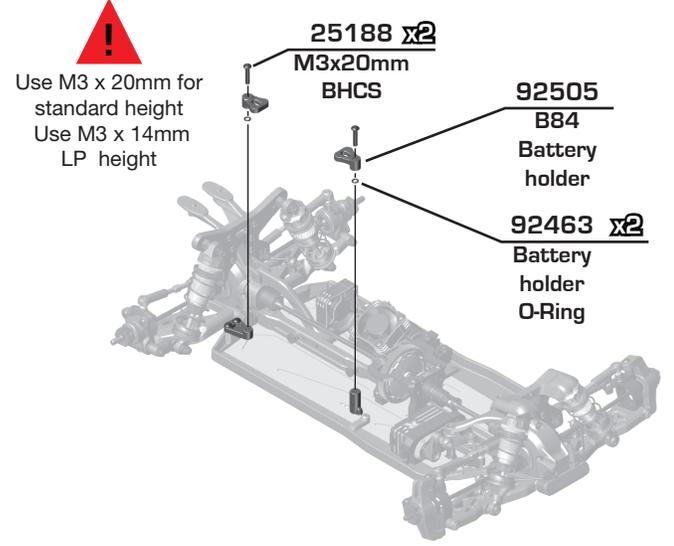
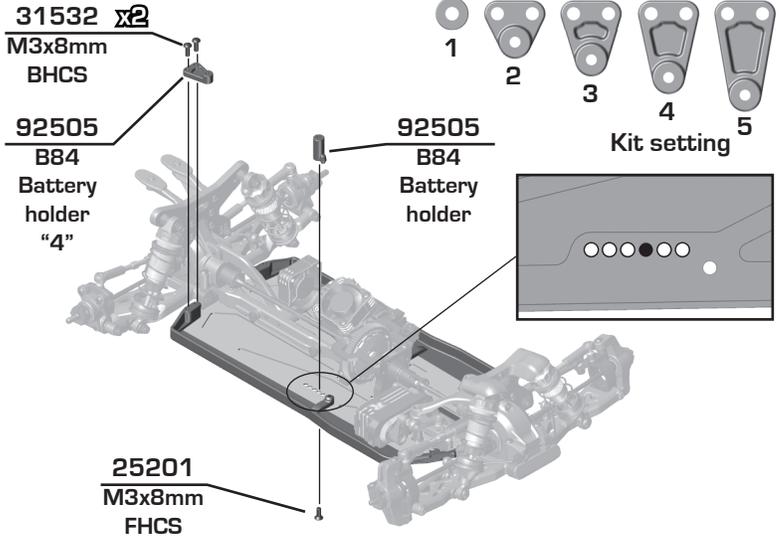
⚡ Bag 12 - Step 2



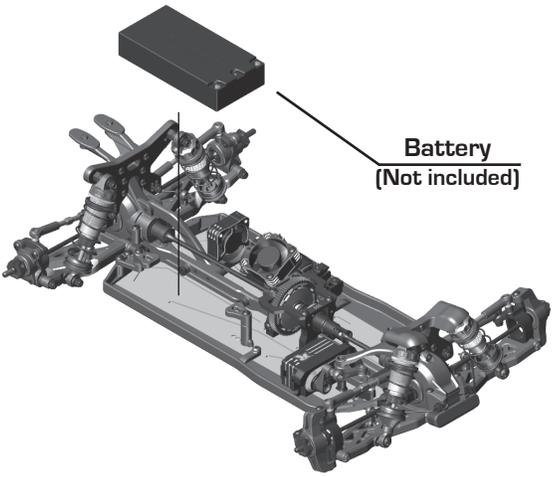
⚡ Bag 12 - Step 3



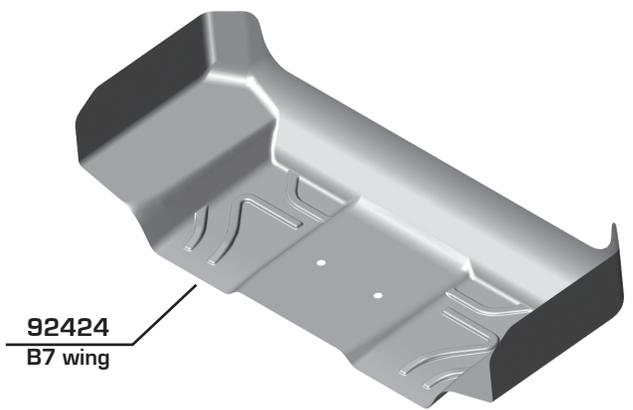
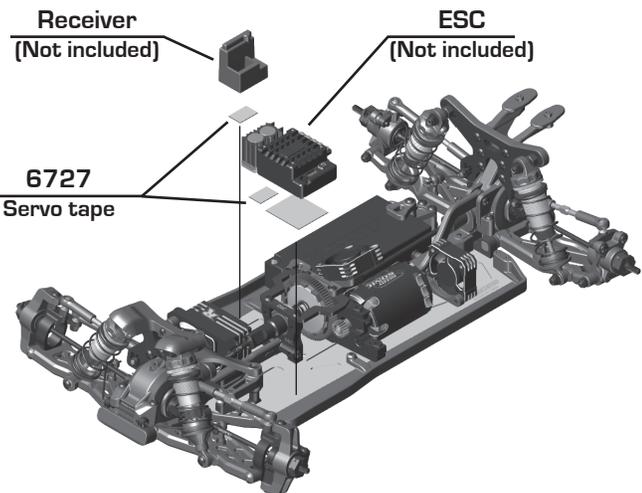
Bag 12 - Step 4



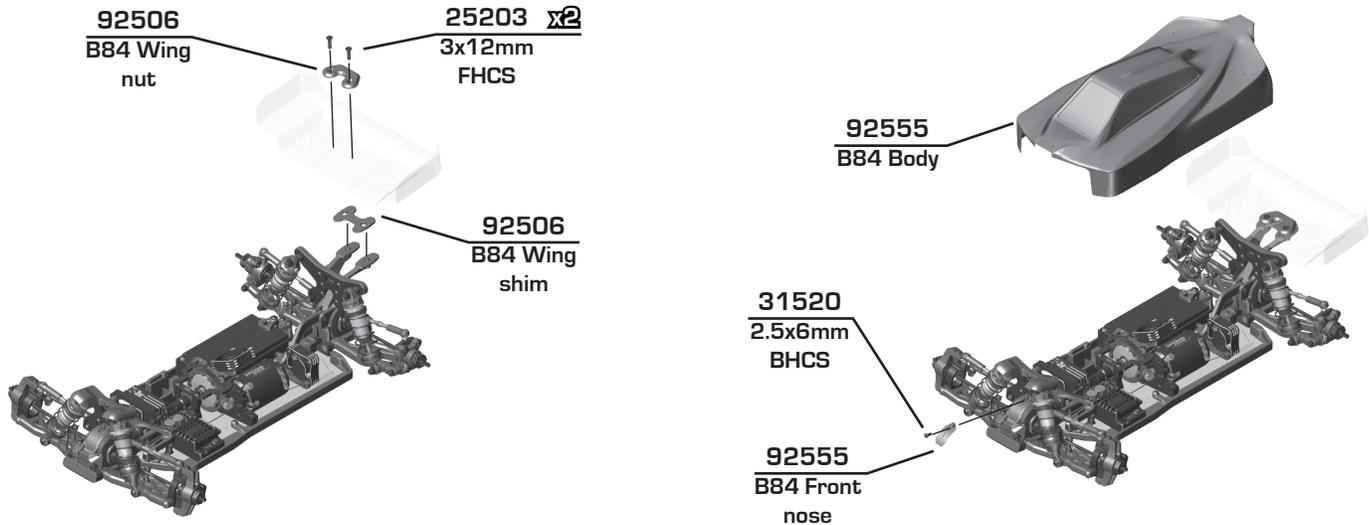
Bag 12 - Step 5



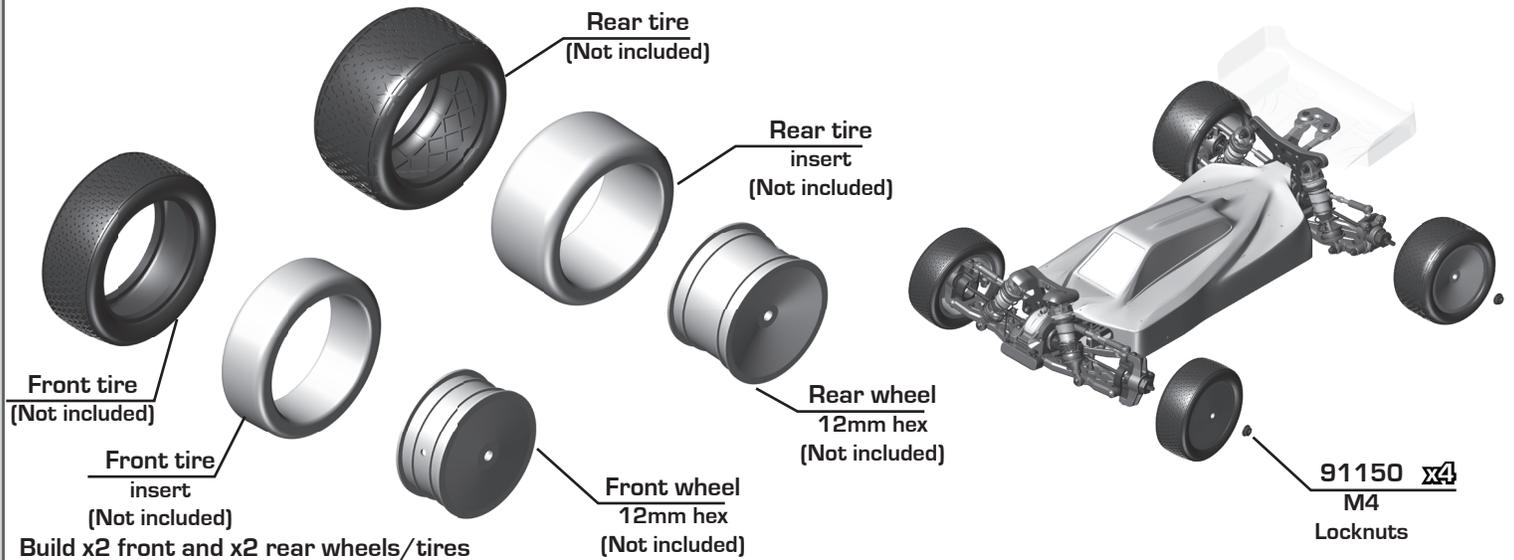
Bag 12 - Step 6



Bag 12 - Step 7



Bag 12 - Step 8



Tuning Tips - Painting, Beginners

Painting:

Your Kit requires 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 (do not use any detergents with scents or added hand lotion ingredients!). Dry the body using a clean, soft, lint-free cloth. Use the supplied window masks to cover the windows from the **INSIDE** of the body (RC bodies get painted on the inside). Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (use either rattle can or airbrush) the paint on the inside of the body (preferably dark colors first, lighter colors last). **NOTE: ONLY** use paint that is recommended for (polycarbonate) plastics. If you do not, you can destroy the body! After the paint has completely dried (usually after 24 hours), cut the body along the trim lines. Make sure to drill or use a body reamer to make the holes for the antenna if needed! Use hook and loop tape to secure the body to the side rails of the vehicle.

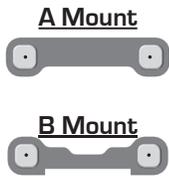
Tips for Beginners:

Before making any changes to the standard setup, make sure you can get around the track without crashing. Changes to your vehicle will not be beneficial if you can't stay on the track. Your goal is consistent laps. Once you can get around the track consistently, start tuning your vehicle. Make only **ONE** adjustment at a time, testing it before making another change. If the result of your adjustment is a faster lap, mark the change on the included setup sheet (make additional copies of the sheet before writing on it). If your adjustment results in a slower lap, revert back to the previous setup and try another change. When you are satisfied with your vehicle, fill in the setup sheet thoroughly and file it away. Use this as a guide for future track days or conditions. Periodically check all moving suspension parts. Suspension components must be kept clean and move freely without binding to prevent poor and/or inconsistent handling.

⚙️ Tuning Tips - Front Arm Mount Pill Insert Setups

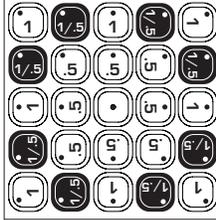
Standard Position

Use this position as a reference when changing pill locations.

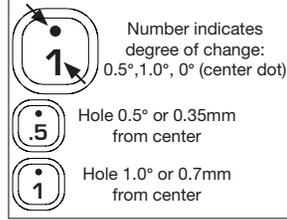


Kick-up: 10°
Roll Center: +0
Pin Width: +0

Possible Insert Locations



Insert Hole Locations



The aluminum front arm mounts utilize eccentric pill inserts to make fine adjustments to kick-up, pin height, and pin width. Adjustments can be made using the supplied inserts (#92014)

Pin Width
More distance = wider pivot
Less distance = narrower pivot

| A Mount | B Mount | |
|---------|---------|----------|
| | | = +1.4mm |
| | | = +0.7mm |
| | | = 0mm |
| | | = -0.7mm |
| | | = -1.4mm |

Pin Height
Higher pin = Higher roll center
Lower Pin = Lower roll center

| A Mount | B Mount | |
|---------|---------|-----------|
| | | = +0.7mm |
| | | = +0.35mm |
| | | = 0mm |
| | | = -0.35mm |
| | | = -0.7mm |

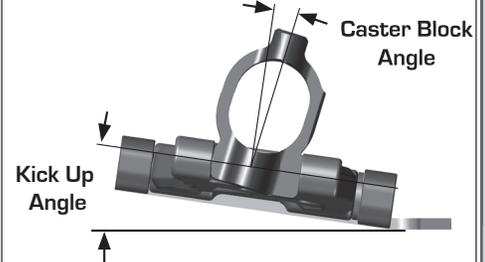
Kick Up

More angle = More kick up
Less angle = Less kick up

| A Mount | B Mount | |
|---------|---------|-------|
| | | = 10° |
| | | = 9° |
| | | = 8° |
| | | = 11° |
| | | = 10° |
| | | = 9° |
| | | = 12° |
| | | = 11° |
| | | = 10° |

Total Caster Angle

Total caster angle is the sum of the kick up angle and the caster block angle.

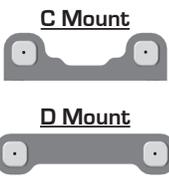


| Caster Block Angle | Kick Up Angle | | | |
|--------------------|---------------|-----|-----|-----|
| | 8° | 9° | 10° | 11° |
| 6° | 14° | 15° | 16° | 17° |
| 7° | 15° | 16° | 17° | 18° |
| 8° | 16° | 17° | 18° | 19° |
| 9° | 17° | 18° | 19° | 20° |
| 10° | 18° | 19° | 20° | 21° |

⚙️ Tuning Tips - Rear Arm Mount Pill Insert Setups

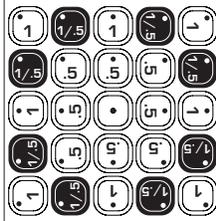
Standard Position

Use this position as a reference when changing pill locations.

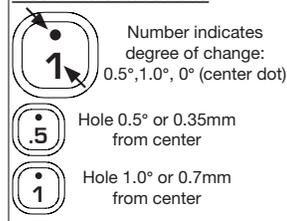


Toe: 3°
Anti-Squat: 2°
Roll Center: +0
Pin Width: +0

Possible Insert Locations



Insert Hole Locations



The aluminum front arm mounts utilize eccentric pill inserts to make fine adjustments to kick-up, pin height, and pin width. Adjustments can be made using the supplied inserts (#92014)

Pin Width
More distance = wider pivot
Less distance = narrower pivot

| C Mount | D Mount | |
|---------|---------|----------|
| | | = +1.4mm |
| | | = +0.7mm |
| | | = 0mm |
| | | = -0.7mm |
| | | = -1.4mm |

Pin Height
Higher pin = Higher roll center
Lower Pin = Lower roll center

| C Mount | D Mount | |
|---------|---------|-----------|
| | | = +0.7mm |
| | | = +0.35mm |
| | | = 0mm |
| | | = -0.35mm |
| | | = -0.7mm |

Anti-Squat Angle

More angle = More anti-squat
Less angle = Less anti-squat

| C Mount | D Mount | |
|---------|---------|------|
| | | = 2° |
| | | = 1° |
| | | = 0° |
| | | = 3° |
| | | = 2° |
| | | = 1° |
| | | = 4° |
| | | = 3° |
| | | = 2° |

Toe Angle

More angle = More toe in
Less angle = Less toe in
Shown in 1° changes

| C Mount | D Mount | |
|---------|---------|------|
| | | = 3° |
| | | = 4° |
| | | = 5° |
| | | = 2° |
| | | = 3° |
| | | = 4° |
| | | = 1° |
| | | = 2° |
| | | = 3° |

Front Suspension:

| | |
|---------------------------|---|
| Ride Height: | 11mm |
| Camber: | -1 deg |
| Toe: | 0 deg |
| Anti-Roll Bar: | 1.8mm |
| Arm Type: | Kit |
| Tower Type: | Kit |
| Wheelbase Shim: | Arm Middle |
| Wheel Hex: | 5mm |
| Steering Block Type: | B74 |
| Caster Block: | 6° <input type="checkbox"/> 7° <input type="checkbox"/> 8° <input checked="" type="checkbox"/> 9° <input type="checkbox"/> 10° <input type="checkbox"/> |
| Chassis Brace Material: | Kit |
| Top Plate Brace Material: | Kit |
| Front Axles: | CVA <input checked="" type="checkbox"/> DCV <input type="checkbox"/> |
| Notes: | |

Lower Brace Type: Fixed Pivot



Ball Stud Spacing: 2mm

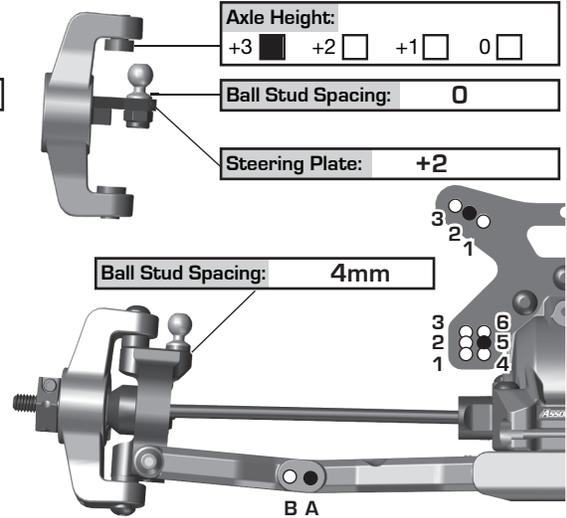
Arm Mount A: 1° 0.5°
 Gray Black



Arm Mount B: 1° 0.5°
 Gray Black



Diff Height:
 +3
 +2
 +1
 +0



Axle Height:
 +3 +2 +1 0

Ball Stud Spacing: 0

Steering Plate: +2

Ball Stud Spacing: 4mm

Rear Suspension:

| | |
|-------------------------------|--|
| Ride Height: | 11mm |
| Camber: | -1 deg |
| Anti-Roll Bar: | 2.0mm |
| Arm Type: | Kit - B7 |
| Tower Type: | Kit |
| Wheelbase Shim: | Arm Middle |
| Wheel Hex: | 7mm |
| Hub Type: | Kit - B7 HRC |
| Drive Shaft Type: | 69mm Bone |
| Chassis Brace Material: | Kit |
| Upper Chassis Brace Material: | Kit |
| Hub Spacing: | Fwd <input type="checkbox"/> Mid <input checked="" type="checkbox"/> Back <input type="checkbox"/> |
| Notes: | |

Lower Brace Type: Fixed Pivot



Rear Chassis Brace Screws:

Arm Mount C: 1° 0.5°
 Gray Black

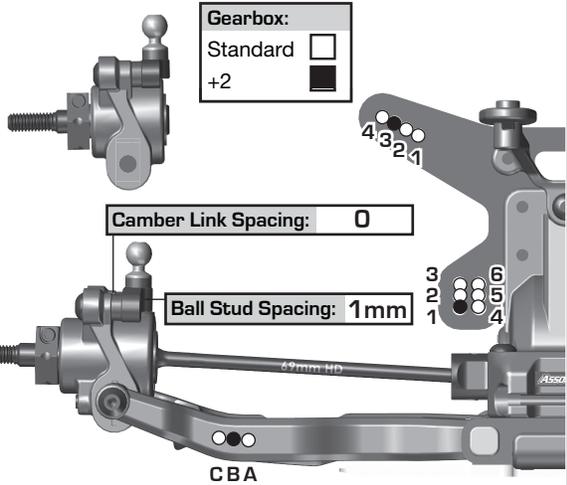


Arm Mount D: 1° 0.5°
 Gray Black



Axle Height:
 ▼0 3▲ +3
 ▼1 2▲ +2
 ▲1 2▼ +1
 ▲0 3▼ +0

Diff Height:
 +3
 +2
 +1
 +0



Gearbox:
 Standard
 +2

Camber Link Spacing: 0

Ball Stud Spacing: 1mm

Electronics:

| | |
|---|---------|
| Radio: | Servo: |
| EPA: Throttle: _____ % Brake: _____ % | |
| ESC: | |
| ESC Settings: | |
| Motor / Wind: | Timing: |
| Pinion: | Spur: |
| Motor Position: Forward: <input checked="" type="checkbox"/> Back: <input type="checkbox"/> | |
| Battery Position: Back 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> Forward | |
| Battery: _____ Weight: _____ | |
| Notes: | |

Differential:

| | Front | Center | Rear |
|--------|-------|--------|-------|
| Fluid: | 30K | | 100K |
| Gears: | LTC | | LTC |
| Type: | Metal | | Metal |
| Notes: | | | |

Slipper Clutch:

| |
|------------|
| Type: |
| # of Pads: |
| Setting: |
| Notes: |

Shocks:

| | Front | Rear |
|---|--------|--------|
| Piston: | 2x1.7 | 2x1.9 |
| Thickness: | 2.5mm | 2.5mm |
| Fluid: | 42.5wt | 35wt |
| Spring: | Purple | Orange |
| Limiters: Int: 2 Ext: 4 Int: 1 Ext: 2 | | |
| Stroke: | 21mm | 27.5mm |
| Eyelet: | 0 | 0 |
| Cup Offset: 0 +5 +9 0 +5 +9 | | |
| Kashima Bodies: <input type="checkbox"/> Chrome Shafts: <input type="checkbox"/> Machined Spacers: <input type="checkbox"/> | | |
| Notes: | | |



Track Info:

| |
|--------------|
| Size: |
| Surface: |
| Traction: |
| Moisture: |
| Condition: |
| Temperature: |
| Notes: |

Tires:

| |
|-----------------|
| Front Tires: |
| Front Compound: |
| Front Insert: |
| Rear Tires: |
| Rear Compound: |
| Rear Insert: |
| Wheel (F/R): |
| Notes: |

Body, Weight:

| | |
|--|---|
| Body: | B84 |
| Front Wing: | Nose |
| Rear Wing: | B7 |
| Rear Wing Mount: | 0 <input type="checkbox"/> -2 <input checked="" type="checkbox"/> |
| Wing Angle: 0° <input type="checkbox"/> 3° <input type="checkbox"/> 6° <input checked="" type="checkbox"/> | |
| Chassis Length: | Standard |
| Total Vehicle Weight: | |
| Notes: | |

Vehicle Comments:

| |
|--------|
| Notes: |
| |
| |
| |
| |
| |

Front Suspension:

Ride Height: _____
 Camber: _____
 Toe: _____
 Anti-Roll Bar: _____
 Arm Type: _____
 Tower Type: _____
 Wheelbase Shim: _____
 Wheel Hex: _____
 Steering Block Type: _____
 Caster Block: 6° 7° 8° 9° 10°
 Chassis Brace Material: _____
 Top Plate Brace Material: _____
 Front Axles: CVA DCV
 Notes: _____

Lower Brace Type: Fixed Pivot



Ball Stud Spacing: _____

Arm Mount A: 1° 0.5°
 Gray Black



Arm Mount B: 1° 0.5°
 Gray Black



Diff Height:
 +3
 +2
 +1
 +0

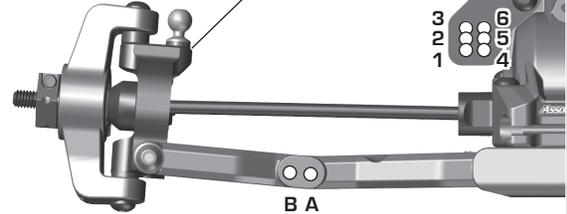


Axle Height:
 +3 +2 +1 0

Ball Stud Spacing: _____

Steering Plate: _____

Ball Stud Spacing: _____



B A

Rear Suspension:

Ride Height: _____
 Camber: _____
 Anti-Roll Bar: _____
 Arm Type: _____
 Tower Type: _____
 Wheelbase Shim: _____
 Wheel Hex: _____
 Hub Type: _____
 Drive Shaft Type: _____
 Chassis Brace Material: _____
 Upper Chassis Brace Material: _____
 Hub Spacing: Fwd Mid Back
 Notes: _____

Lower Brace Type: Fixed Pivot



Rear Chassis Brace Screws: _____

Arm Mount C: 1° 0.5°
 Gray Black



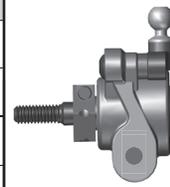
Arm Mount D: 1° 0.5°
 Gray Black



Axle Height:
 ▼0 3▲ +3
 ▼1 2▲ +2
 ▲1 2▼ +1
 ▲0 3▼ +0

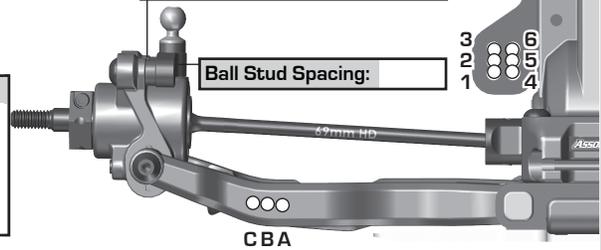
Diff Height:
 +3
 +2
 +1
 +0

Gearbox:
 Standard
 +2



Camber Link Spacing: _____

Ball Stud Spacing: _____



C B A

Electronics:

Radio: _____ Servo: _____
 EPA: Throttle: _____ % Brake: _____ %
 ESC: _____
 ESC Settings: _____
 Motor / Wind: _____ Timing: _____
 Pinion: _____ Spur: _____
 Motor Position: Forward: Back:
 Battery Position:
 Back 1 2 3 4 5 Forward
 Battery: _____ Weight: _____
 Notes: _____

Differential:

| | Front | Center | Rear |
|--------|-------|--------|-------|
| Fluid: | _____ | _____ | _____ |
| Gears: | _____ | _____ | _____ |
| Type: | _____ | _____ | _____ |
| Notes: | _____ | | |

Slipper Clutch:

Type: _____
 # of Pads: _____
 Setting: _____
 Notes: _____

Shocks:

| | Front | Rear |
|---|-------|-------|
| Piston: | _____ | _____ |
| Thickness: | _____ | _____ |
| Fluid: | _____ | _____ |
| Spring: | _____ | _____ |
| Limiters: Int: _____ Ext: _____ Int: _____ Ext: _____ | | |
| Stroke: | _____ | _____ |
| Eyelet: | _____ | _____ |
| Cup Offset: 0 <input type="checkbox"/> +5 <input type="checkbox"/> +9 <input type="checkbox"/> 0 <input type="checkbox"/> +5 <input type="checkbox"/> +9 <input type="checkbox"/> | | |
| Kashima Bodies: <input type="checkbox"/> Chrome Shafts: <input type="checkbox"/> Machined Spacers: <input type="checkbox"/> | | |
| Notes: | _____ | |



Track Info:

Size: _____
 Surface: _____
 Traction: _____
 Moisture: _____
 Condition: _____
 Temperature: _____
 Notes: _____

Tires:

Front Tires: _____
 Front Compound: _____
 Front Insert: _____
 Rear Tires: _____
 Rear Compound: _____
 Rear Insert: _____
 Wheel (F/R): _____
 Notes: _____

Body, Weight:

Body: _____
 Front Wing: _____
 Rear Wing: _____
 Rear Wing Mount: 0 -2
 Wing Angle: 0° 3° 6°
 Chassis Length: _____
 Total Vehicle Weight: _____
 Notes: _____

Vehicle Comments:

Notes: _____



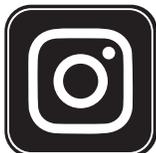
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