



1:10 SCALE ELECTRIC 4WD COMPETITION OFF-ROAD CAR KIT INSTRUCTION MANUAL



Due to ongoing research and development, photos may not match current kit components.
RC10 photos shown equipped with items that may NOT be included with vehicle.



:: 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

- Black anodized 6061-T6 aluminum monocoque 4wd tub chassis
- Black anodized nose plate and motor plate
- Exclusive blue anodized nose tubes and wing tubes
- New blue anodized aluminum chassis stiffeners
- New designed blue anodized thumb nuts
- New larger diameter pulley flanges
- New servo mount and belt guide system
- Fully adjustable four-wheel independent suspension
- Long travel, fluid-filled, hard-anodized aluminum coil-over shocks
- Race proven front and rear Stealth transmissions
- Adjustable ball differentials front and rear
- Exceptional ground clearance with low center of gravity
- Vintage 4wd spike tires included
- Clear Viper body included
- Precision bearings throughout
- Fits 6-cell NiMh and 2S LiPo battery packs
- Adjustable heavy duty 3.5mm turnbuckles and ball cups all around
- Front and rear CVA driveshafts
- Durable low friction center belt and tension system
- Long front arm geometry
- New front caster and spindle assembly designed for RC104wd
- Updated rear bulkhead and chassis stiffener
- Carbon fiber rear transmission brace
- Front 2.2" 12mm hex wheels included
- Rear 2.2" wheels included
- HD Metric Ball Studs throughout
- Race Proven V2 Slipper Clutch System
- All new 4wd Worlds style Specific Bell Crank system
- 5.5" High Downforce Lexan Race Wing Included

:: Additional

Your new RC10 4WD Kit comes as a kit. There are some items you will need to complete your kit (refer to website for suggestions):

- | | |
|--|--|
| • R/C two channel surface frequency radio system | • R/C Electric Motor |
| • Electronic Speed Control (ESC) | • Peak detection battery charger |
| • Steering Servo | • 5.5mm Hex Driver (AE #1507) |
| • 2S, 7.4V Lipo stick battery or 7.2V NiMH battery | • Polycarbonate specific paint |
| • 2mm Hex Driver (AE #1501) | • Pinion gear, size to be determined by type and wind of motor you use |
| • Thread Lock (AE #1596) | |

Tools included:

- Allen wrenches
(.035", .050", 1/16", 3/32")
- Shock building tool

:: Other Helpful Items

- | | | |
|---|-------------------------------------|----------------------------------|
| • Silicone Shock Fluid (Refer to website for complete listings) | • Body Scissors (AE #1737) | • Reamer / Hole Punch (AE #1499) |
| • Tire Adhesive (AE #1697) | • Green Slime shock lube (AE #1105) | • Calipers or a Precision Ruler |
| • Shock Pliers (AE #1681) | • Needle Nose Pliers | • Soldering Iron |
| • Wire Cutters / Hobby Knife | | |

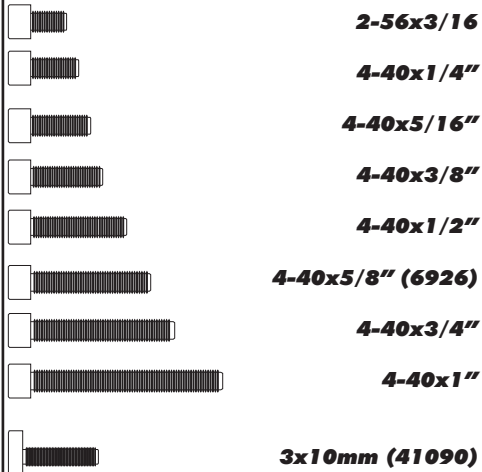
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630



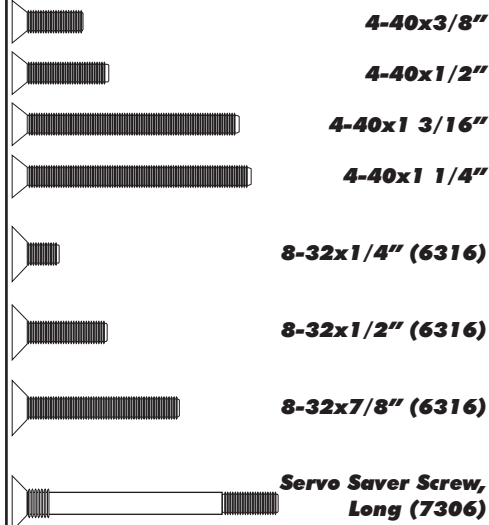
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

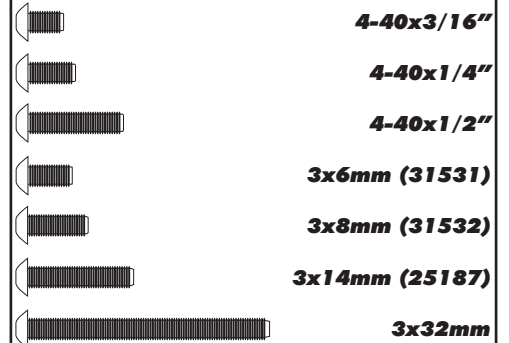
Cap Head (shcs)



Flat Head (fhcs)



Button Head (bhcs)



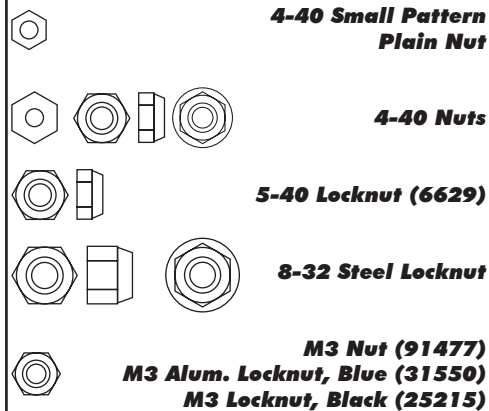
Clips



Shims and Washers



Nuts (lock/plain)



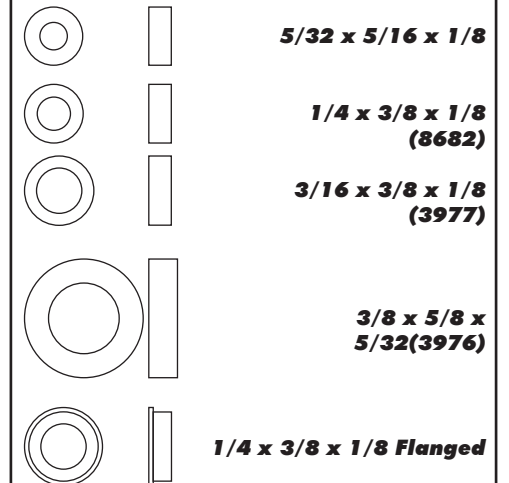
Set Screws



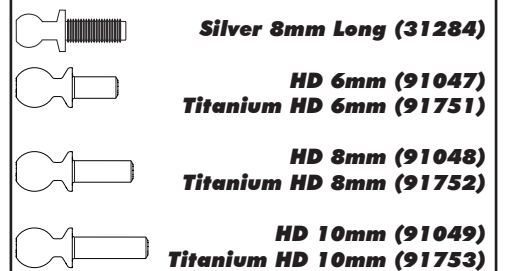
Diff Balls



Bearings



Ballstuds



Notes:

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5.....Nose Plate / Steering Build (Bag A) (Bag F)	19.....Servo/Chassis Stiffeners Build (Bag I)
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8.....Rear Transmission Build (Bag B)	26..... Back Cover
9.....Front Suspension Build (Bag C)	
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:: Notes



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



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.

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

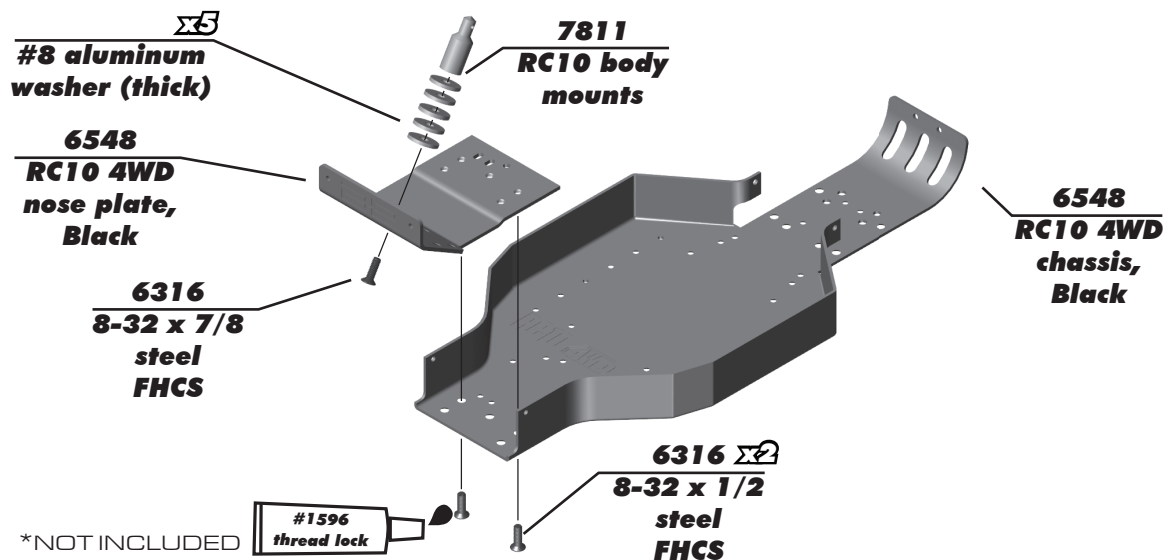


Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

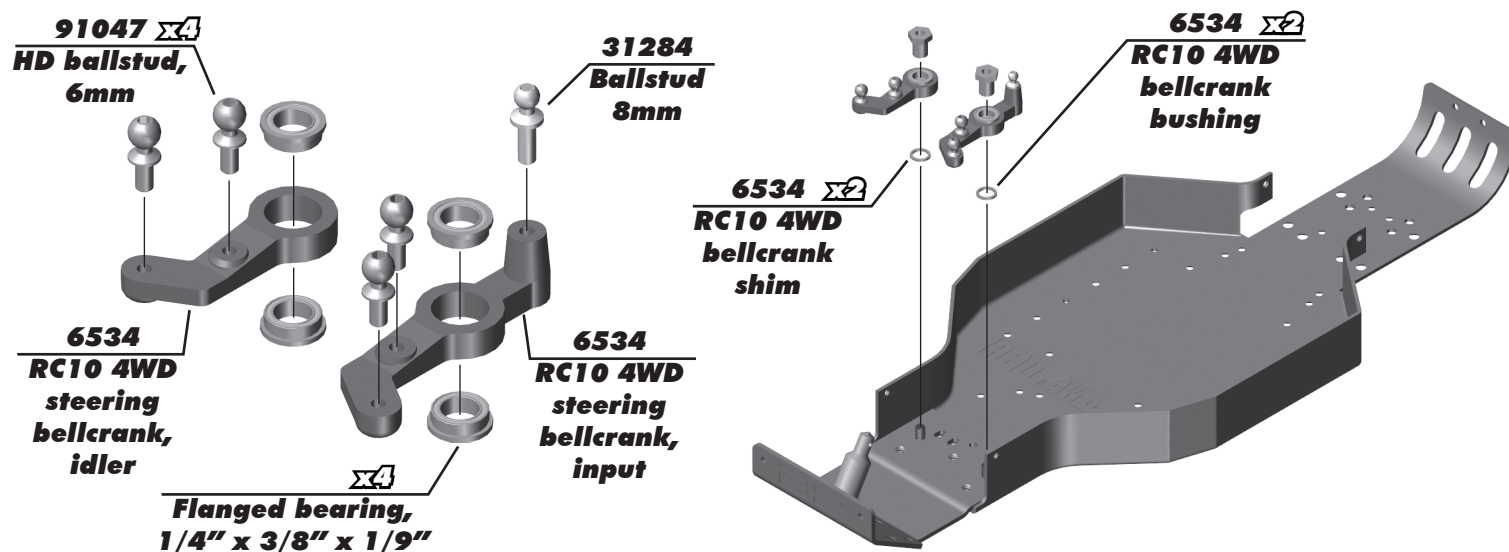
:: Nose Plate / Steering Build - Bag A - Step 1



Washers are used to adjust to your preferred body height.



:: Nose Plate / Steering Build - Bag A - Step 2



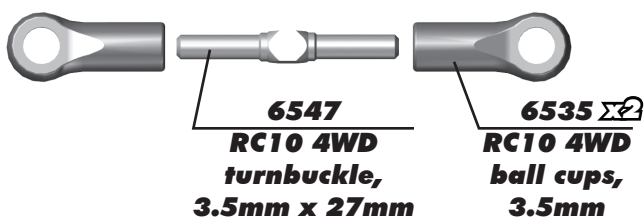
:: Nose Plate / Steering Build - Bag F - Step 3



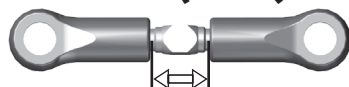
The steering rack turnbuckle parts are in bag F.



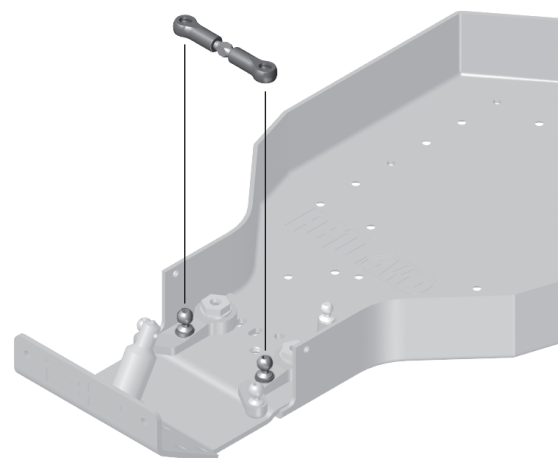
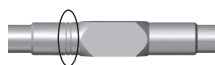
Note the direction of the ball cups!



Steering Rack Turnbuckle
0.31" (8mm)

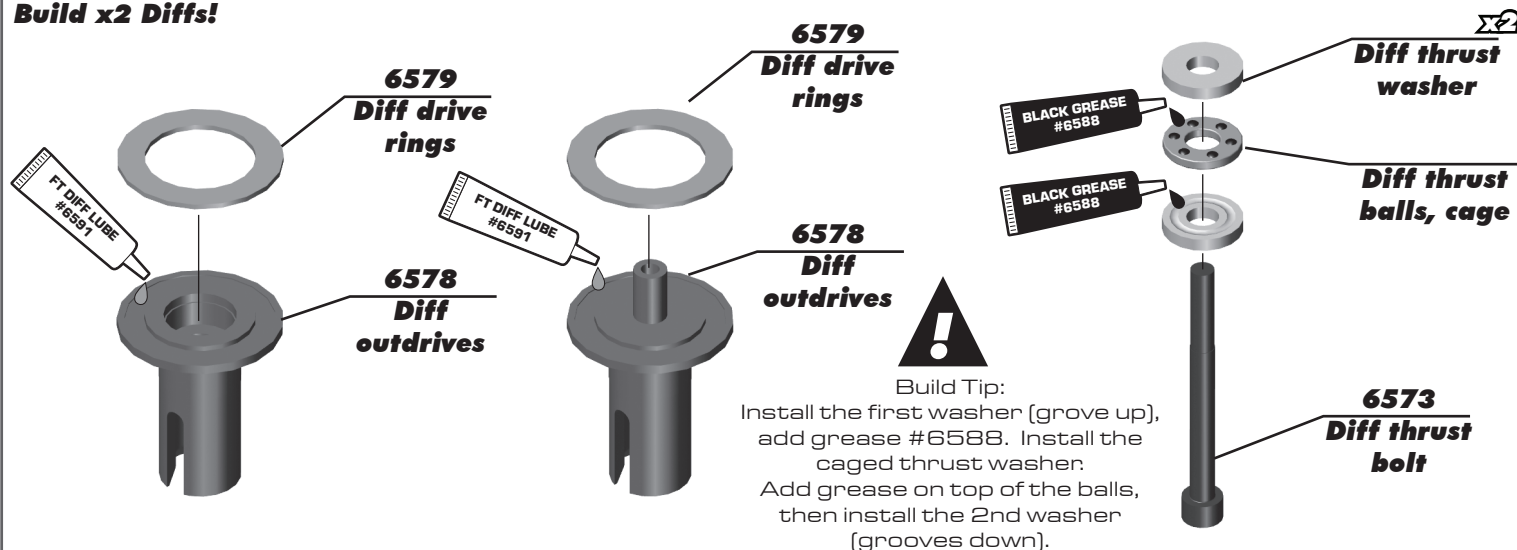


Orient the notch to the left throughout the car. It indicates which end has the left hand threads!

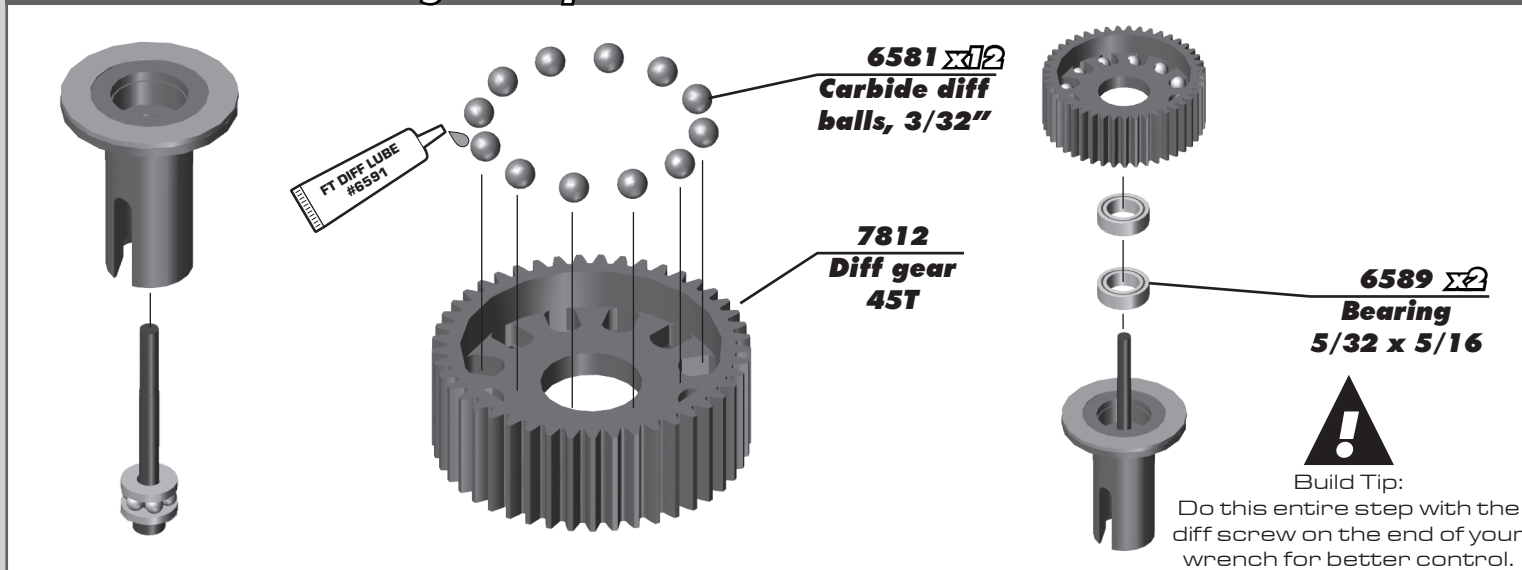


:: Differential Build - Bag B - Step 1

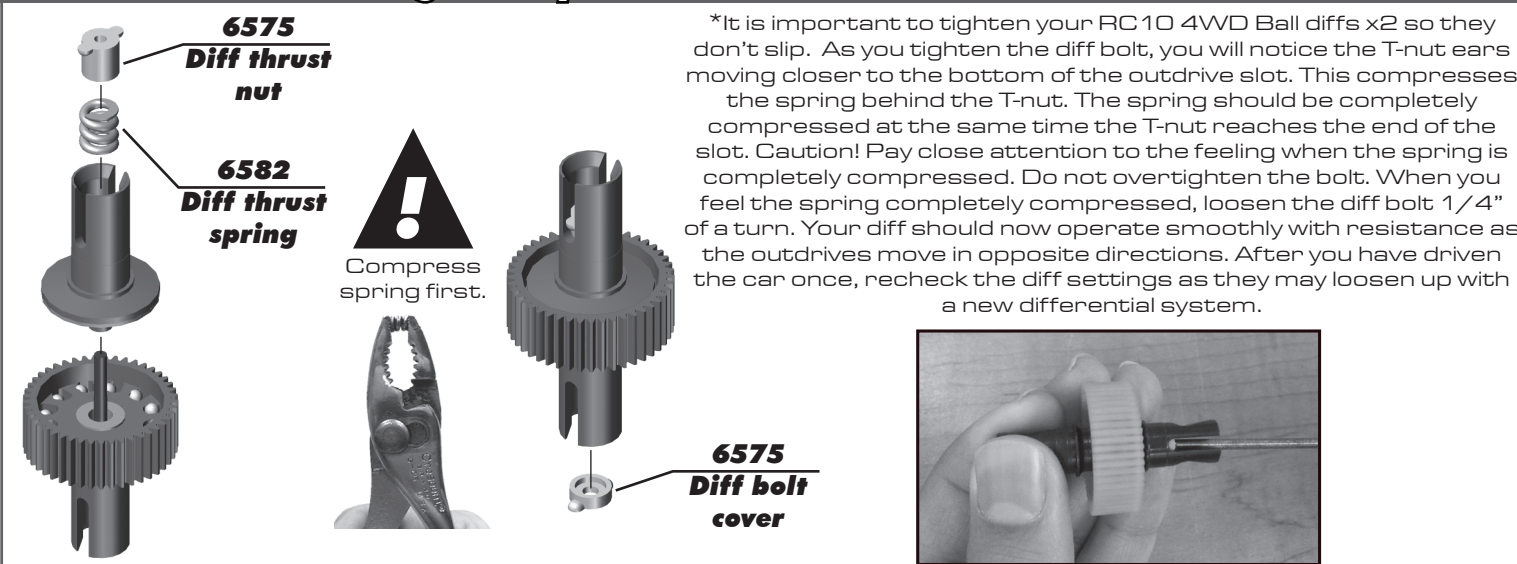
Build x2 Diffs!



:: Differential Build - Bag B - Step 2



:: Differential Build - Bag B - Step 3



:: Differential Build - Bag B - Step 4

Front diff settings and setup notes / tips:

When installing your Ball Differentials, make sure to install the Diff Bolt on the same side as the Top Shaft End.

- Front Diff: Diff Bolt should be on the Driver Side
- Rear Diff: Diff Bolt should be on the Passenger Side

Tighter Front Diff: Tighter front diff compared to the rear will give you more on power steering and off power stability.

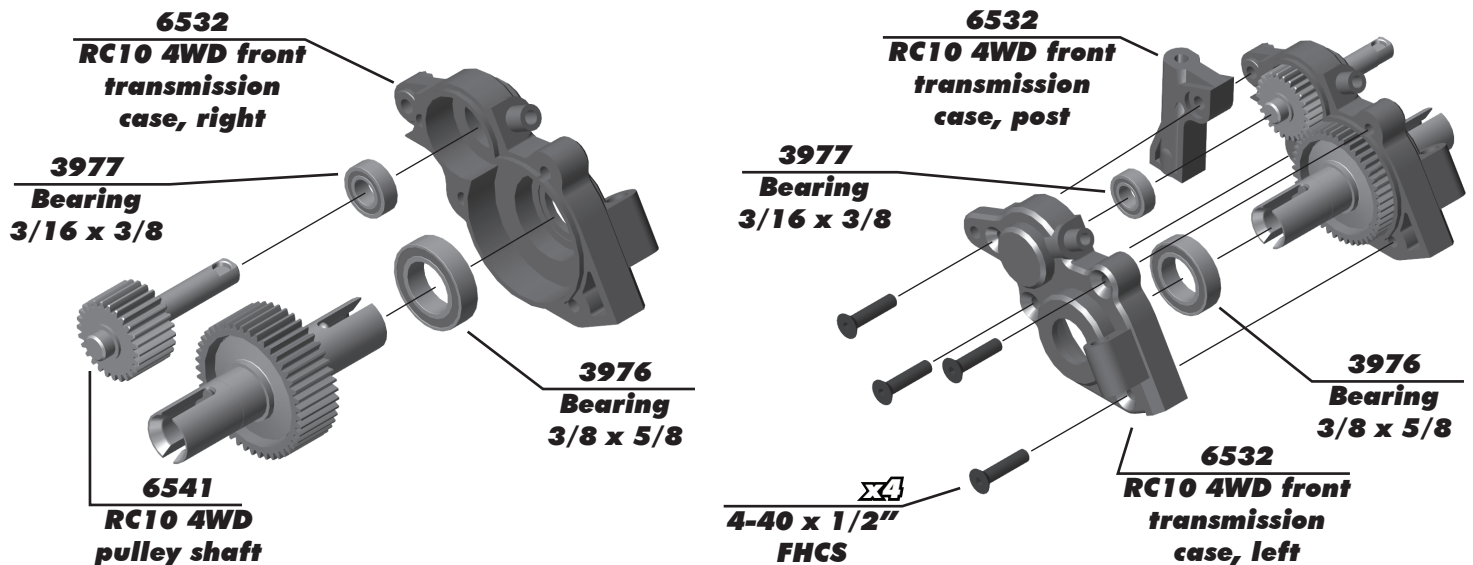
Looser Front Diff: Looser front diff compared to the rear will provide more off power steering and on power stability.

Rear diff settings and setup notes / tips:

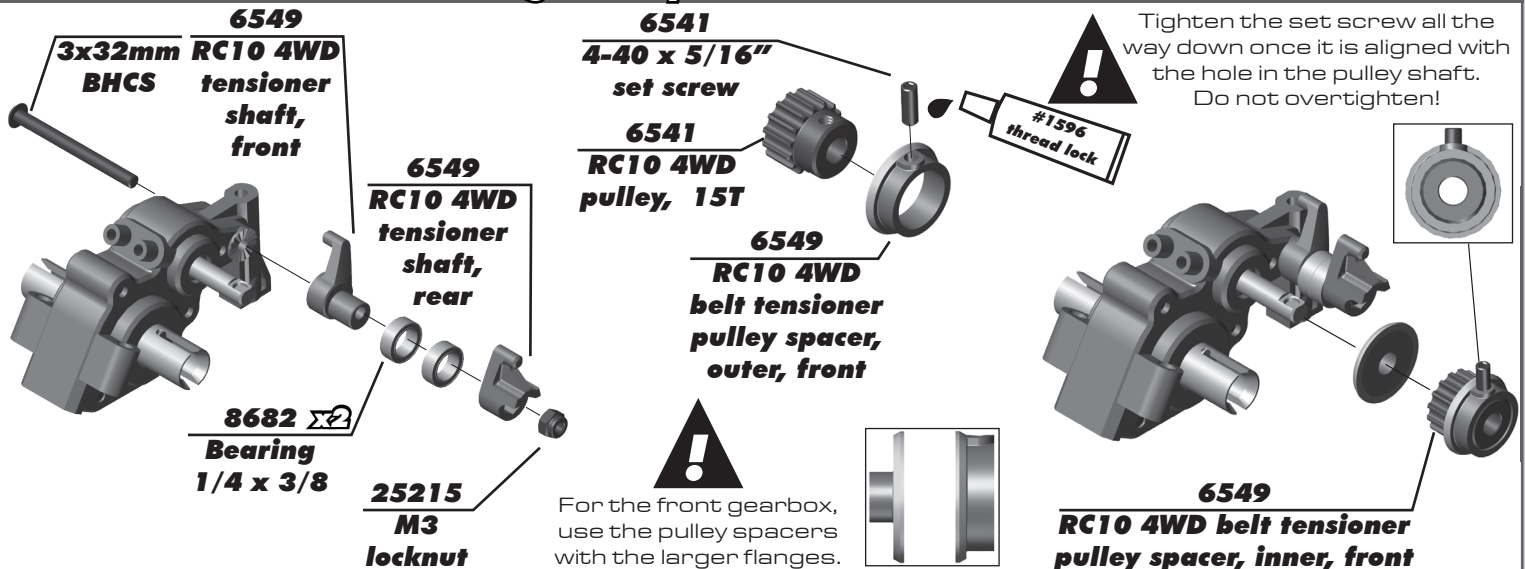
Tighter Rear Diff: Tighter rear diff compared to the front will provide more rear end stability.

Looser Rear Diff: Looser rear diff compared to the front will provide more off power corner speed and on power stability.

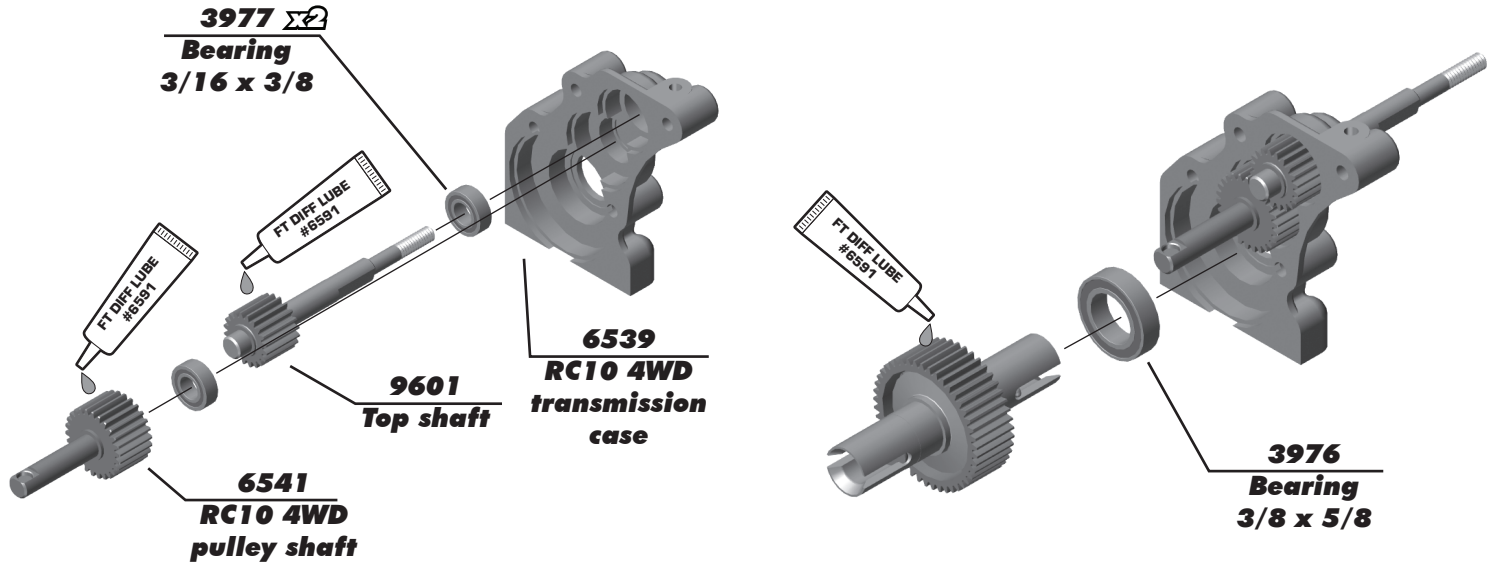
:: Front Transmission Build - Bag B - Step 1



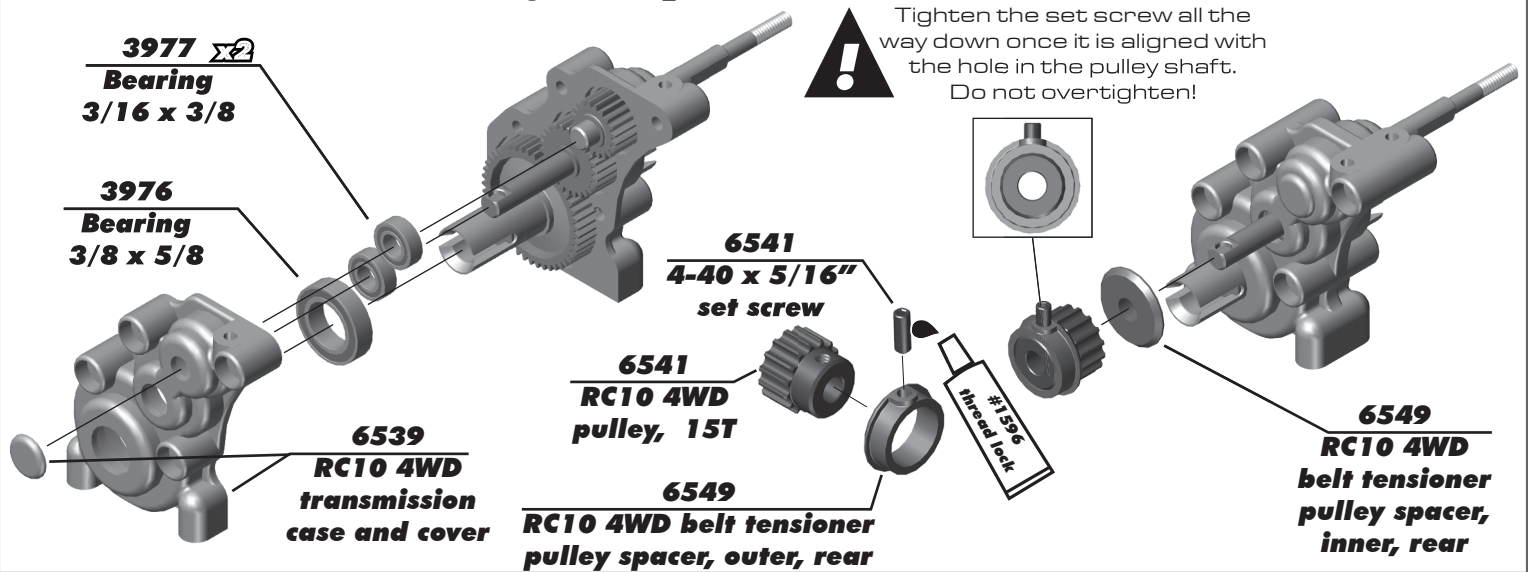
:: Front Transmission Build - Bag B - Step 2



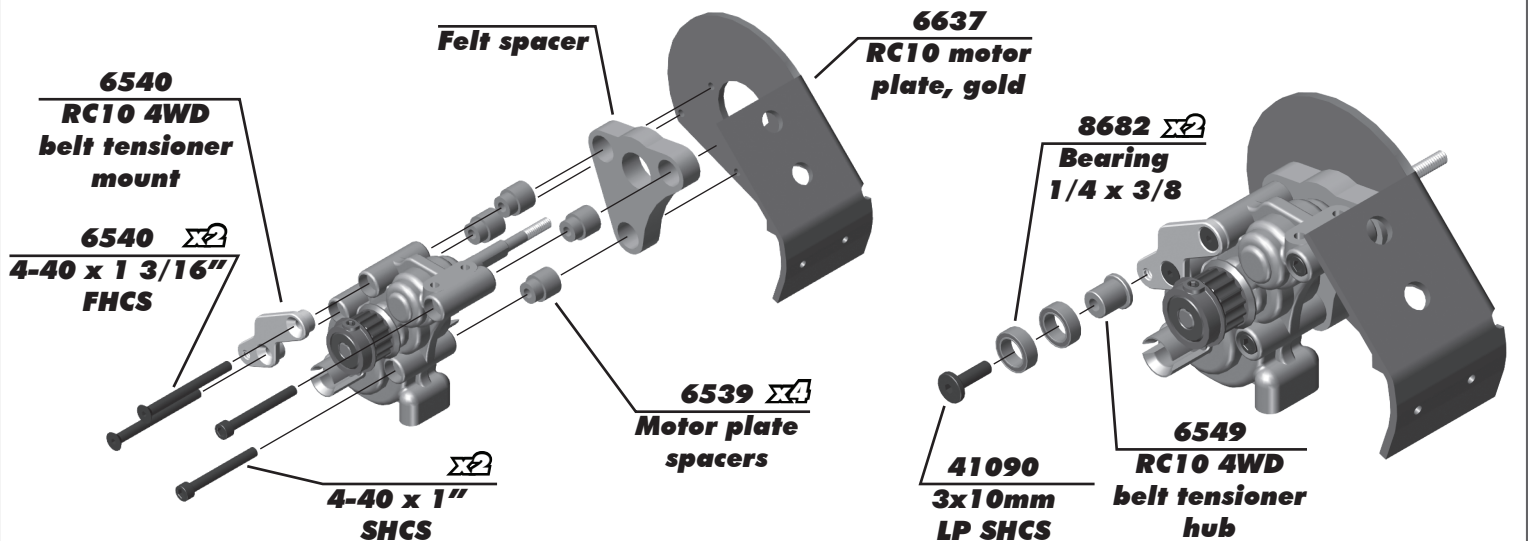
:: Rear Transmission Build - Bag B - Step 1



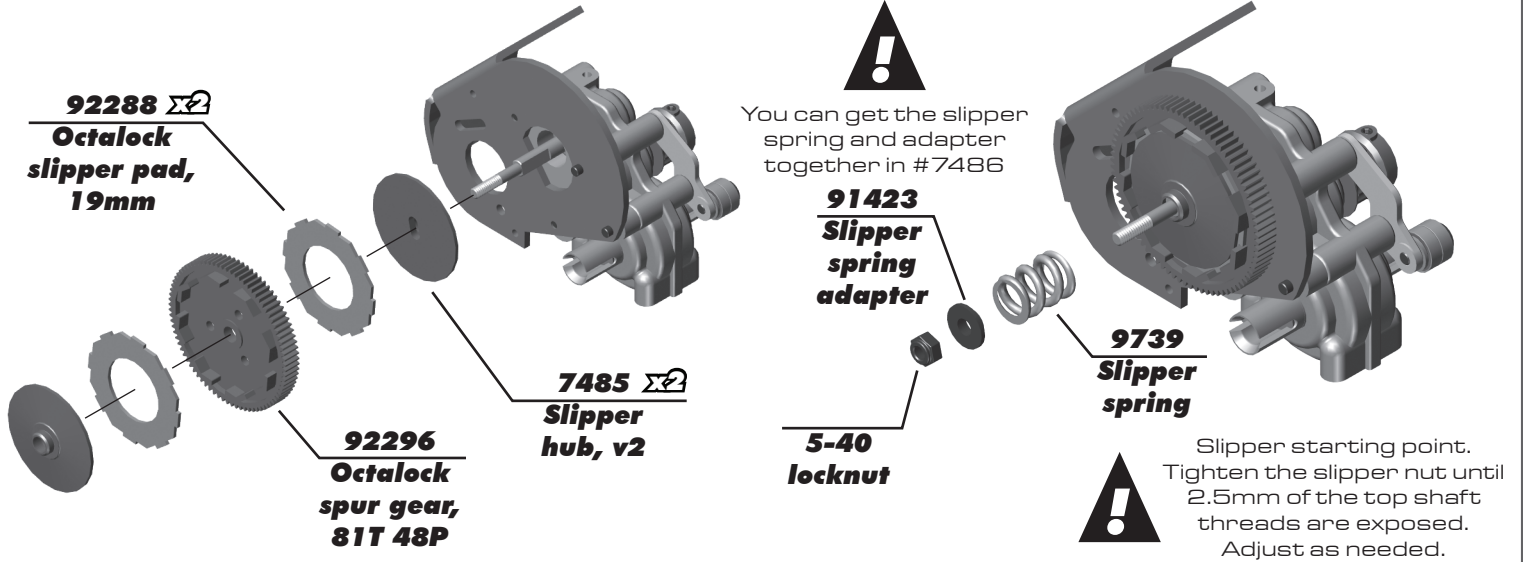
:: Rear Transmission Build - Bag B - Step 2



:: Rear Transmission Build - Bag B - Step 3



:: Rear Transmission Build - Bag B - Step 4



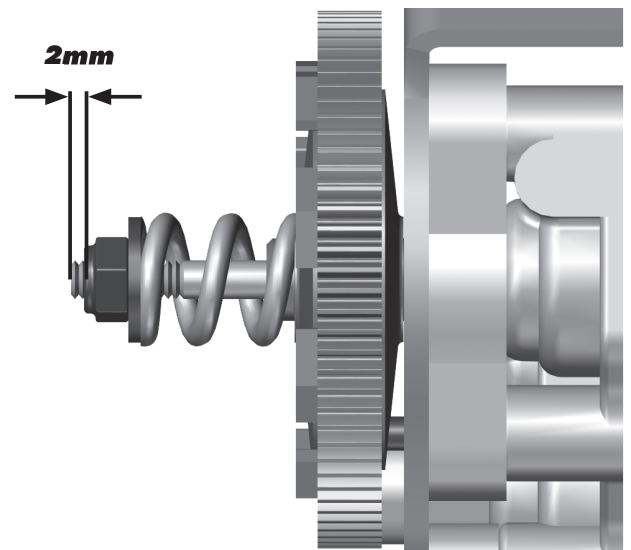
:: Rear Transmission Build - Bag B - Step 5

Slipper Clutch:
On high bite tracks:

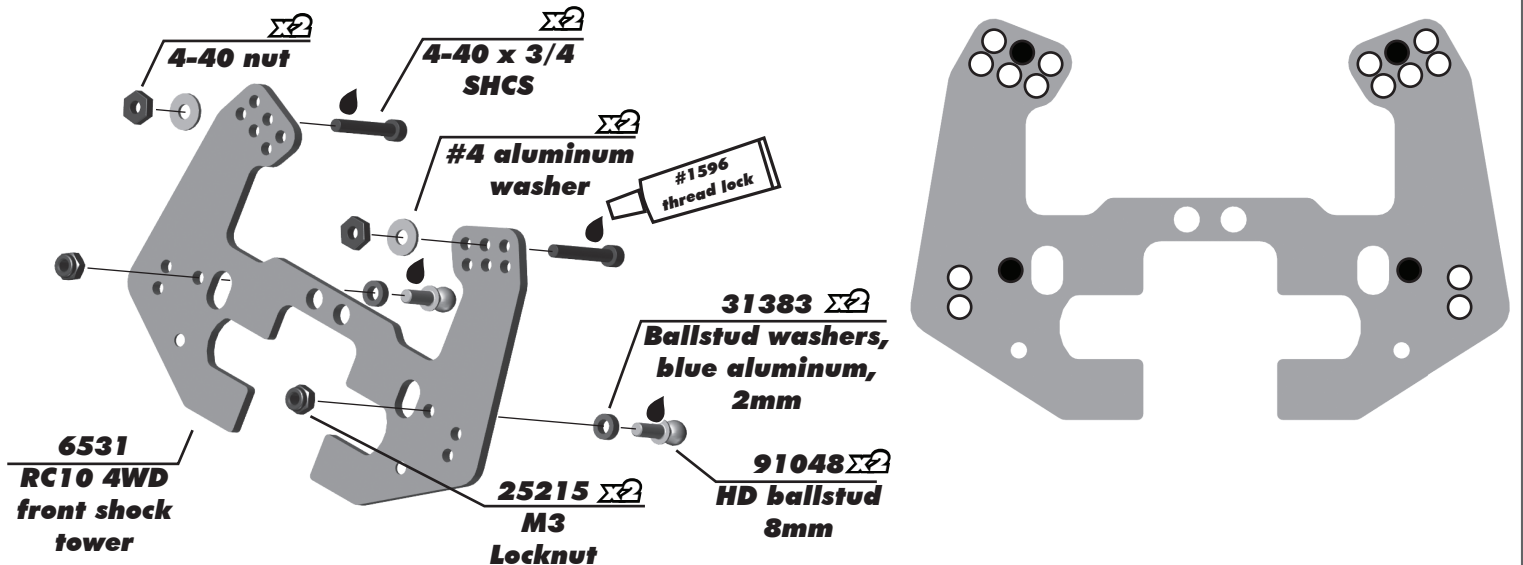
The slipper clutch setting is very
important on higher bite tracks.

Without much wheel spin,
The slipper clutch will need to be
set properly to engage under heavy
braking to prevent the belt from
skipping. The belt is on the same
rear top shaft as the slipper
system. IF the slipper is set too
tight, this can cause issues with
belt management. Recommended
slipper clutch setting on high bite
tracks = 2mm threads showing.

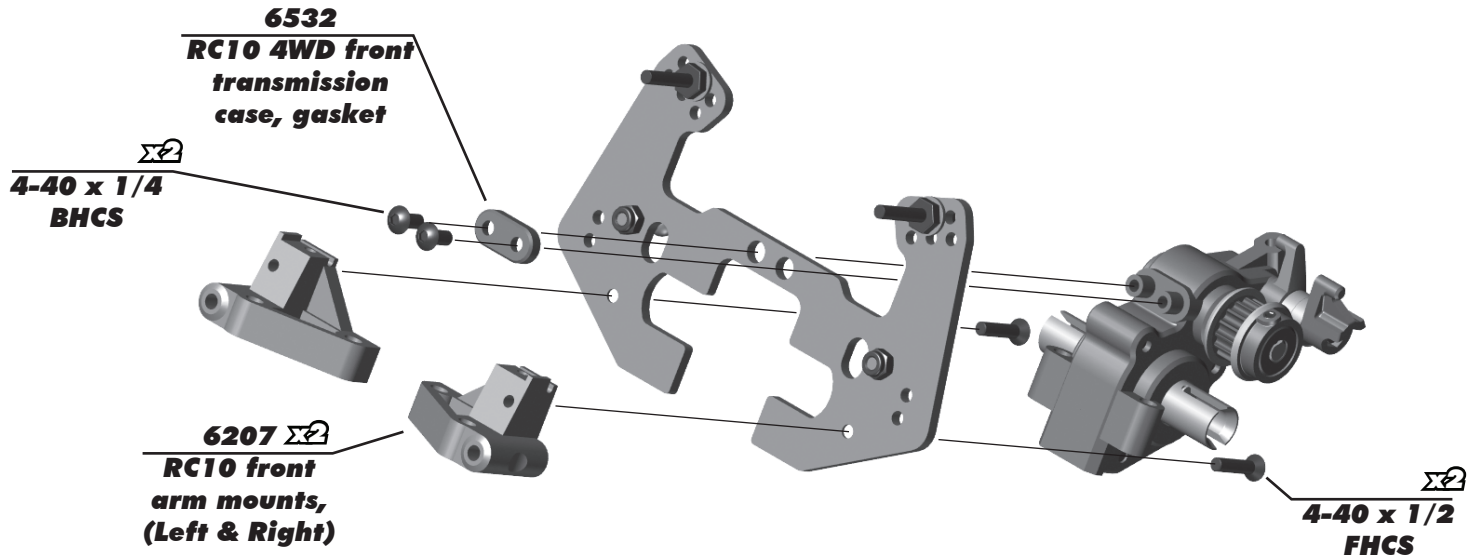
Caution: It is also recommended to
set your esc brakes accordingly,
too much brake can cause issues
with the belt and slipper system.



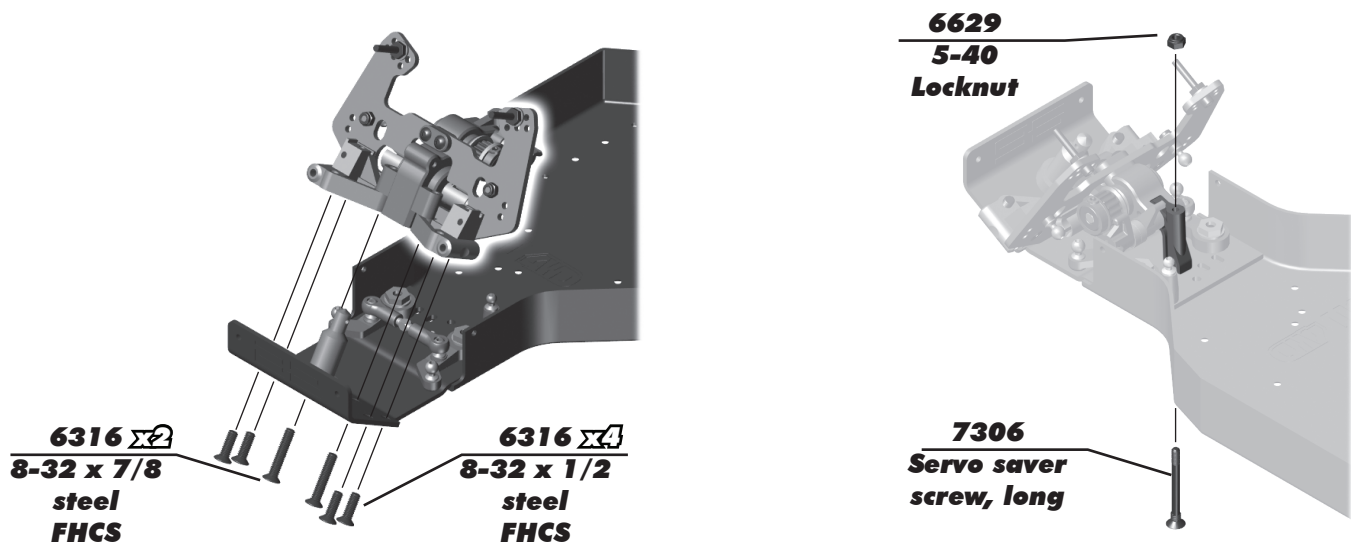
:: Front Suspension Build - Bag C - Step 1



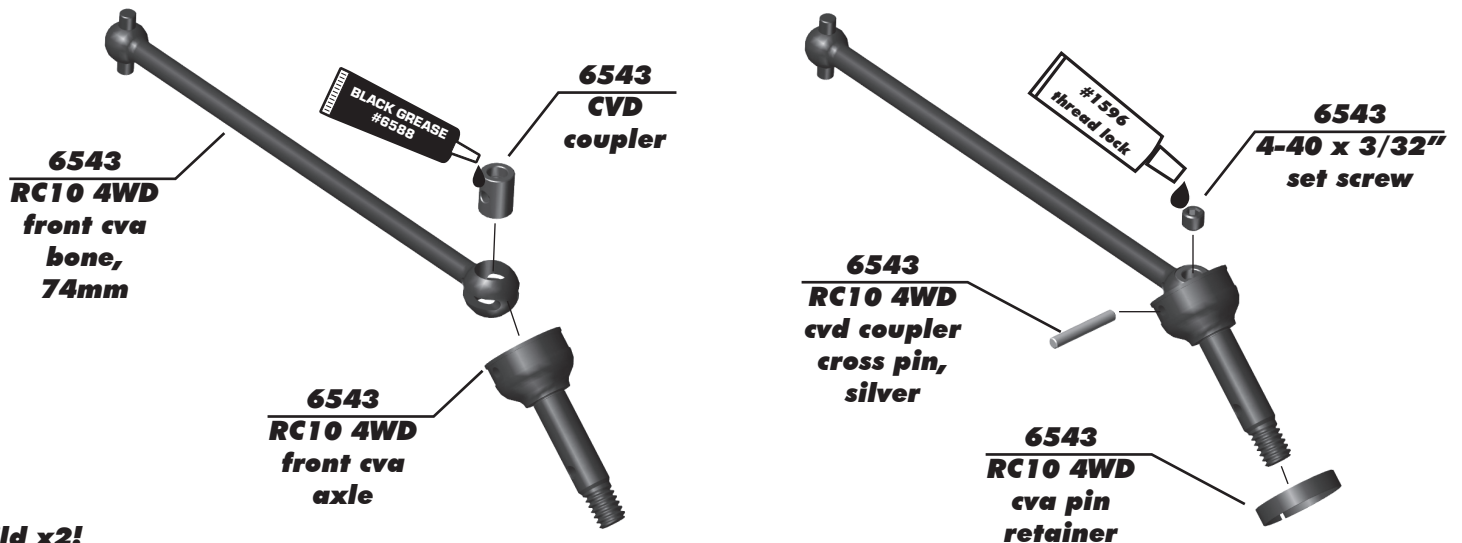
:: Front Suspension Build - Bag C - Step 2



:: Front Suspension Build - Bag C - Step 3

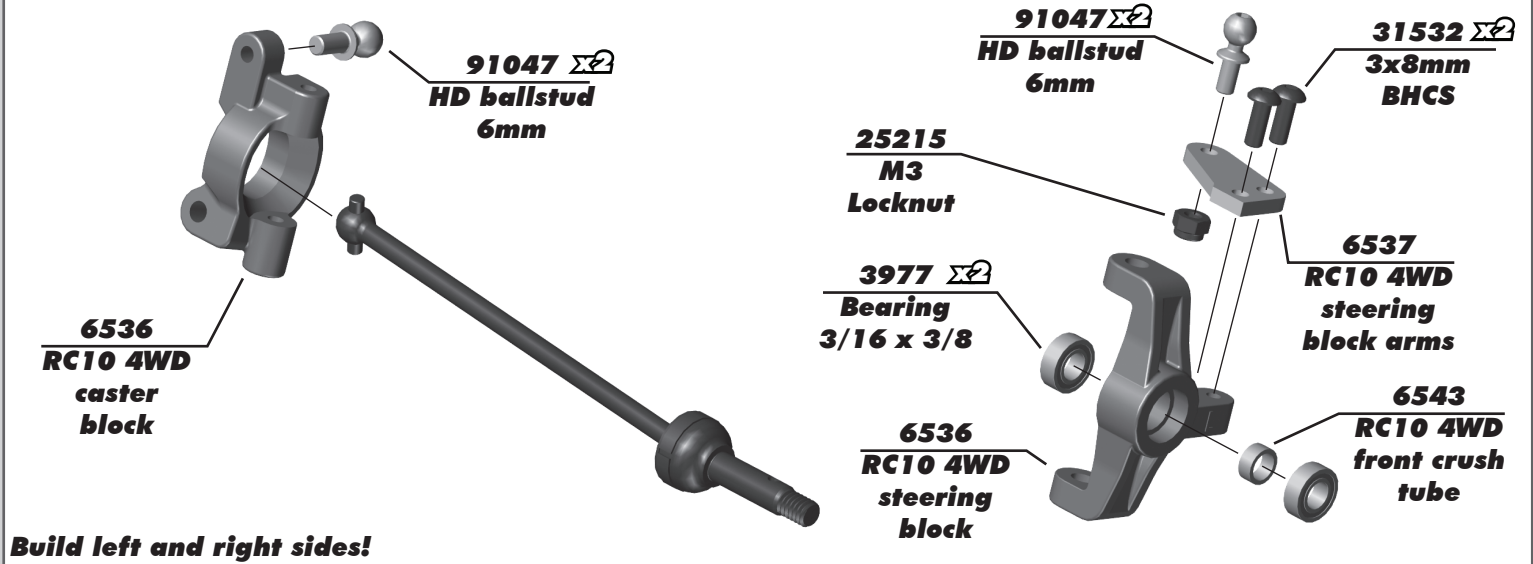


:: Front Suspension Build - Bag C - Step 4

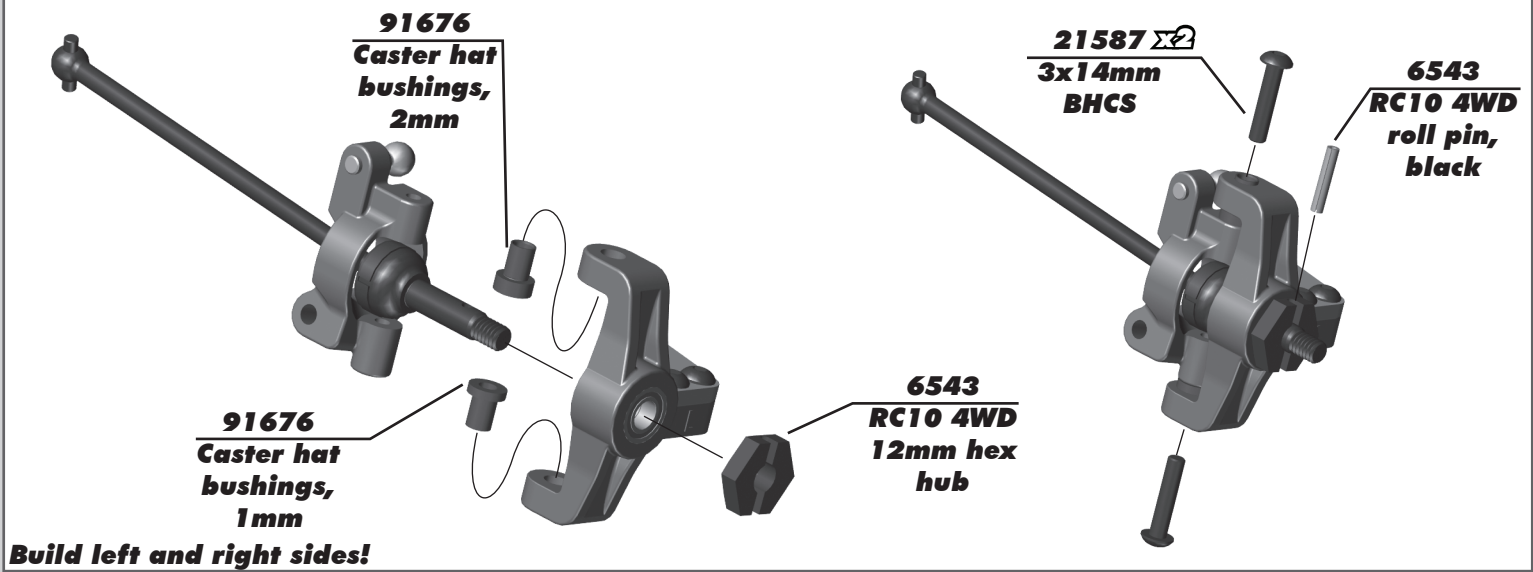


Build x2!

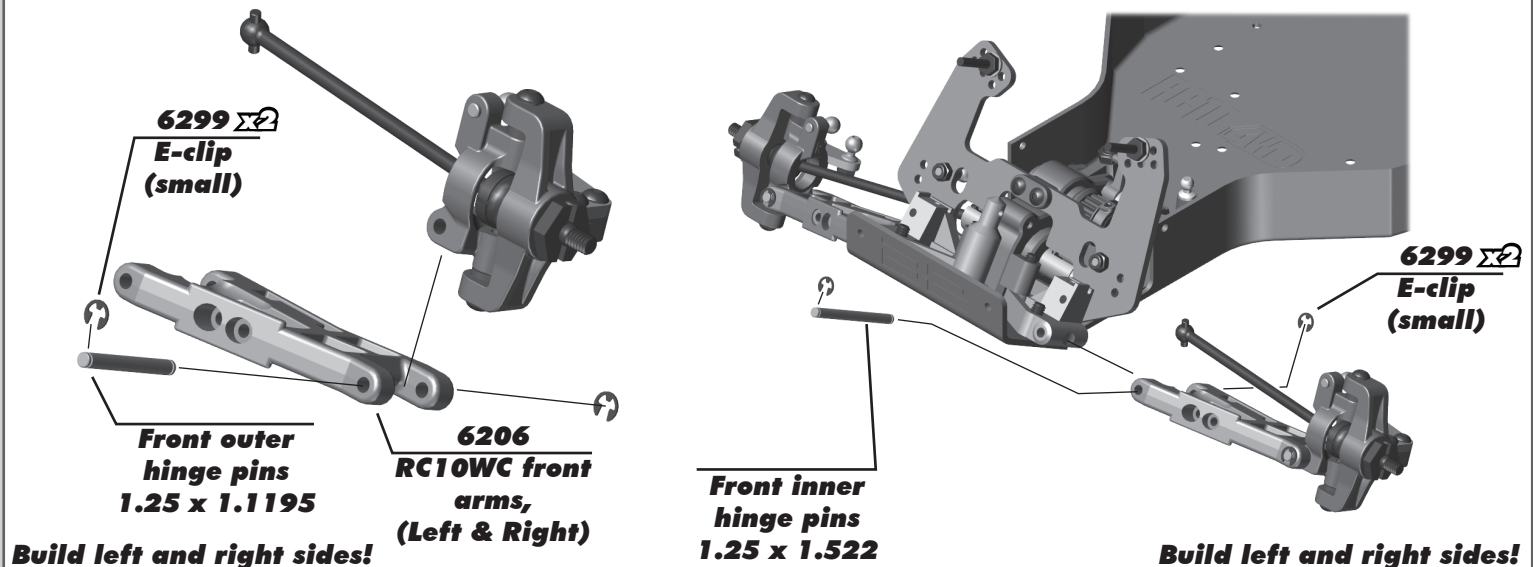
:: Front Suspension Build - Bag C - Step 5



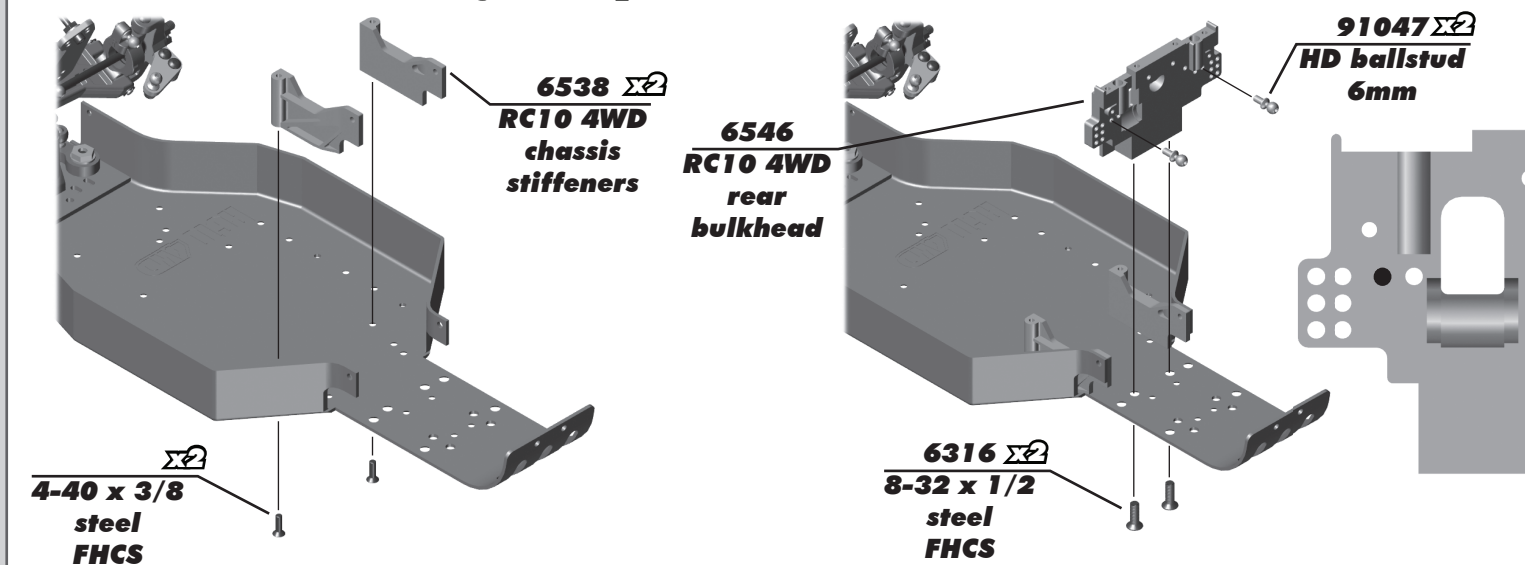
:: Front Suspension Build - Bag C - Step 6



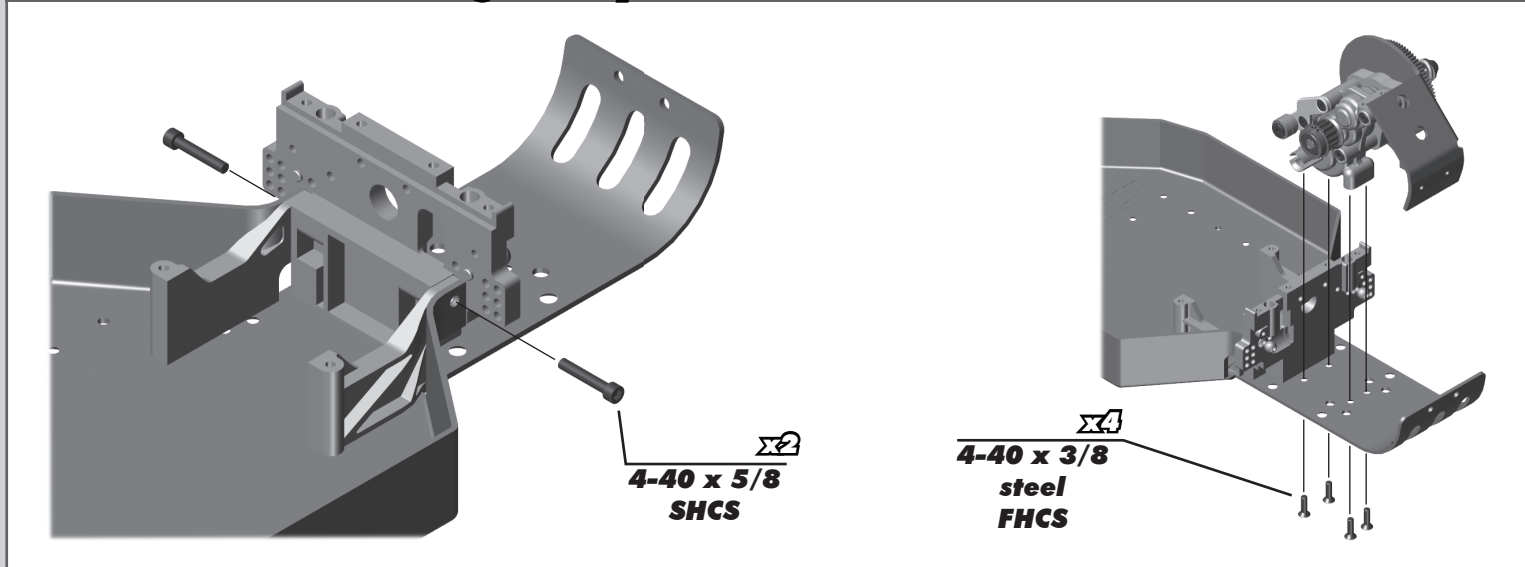
:: Front Suspension Build - Bag C - Step 7



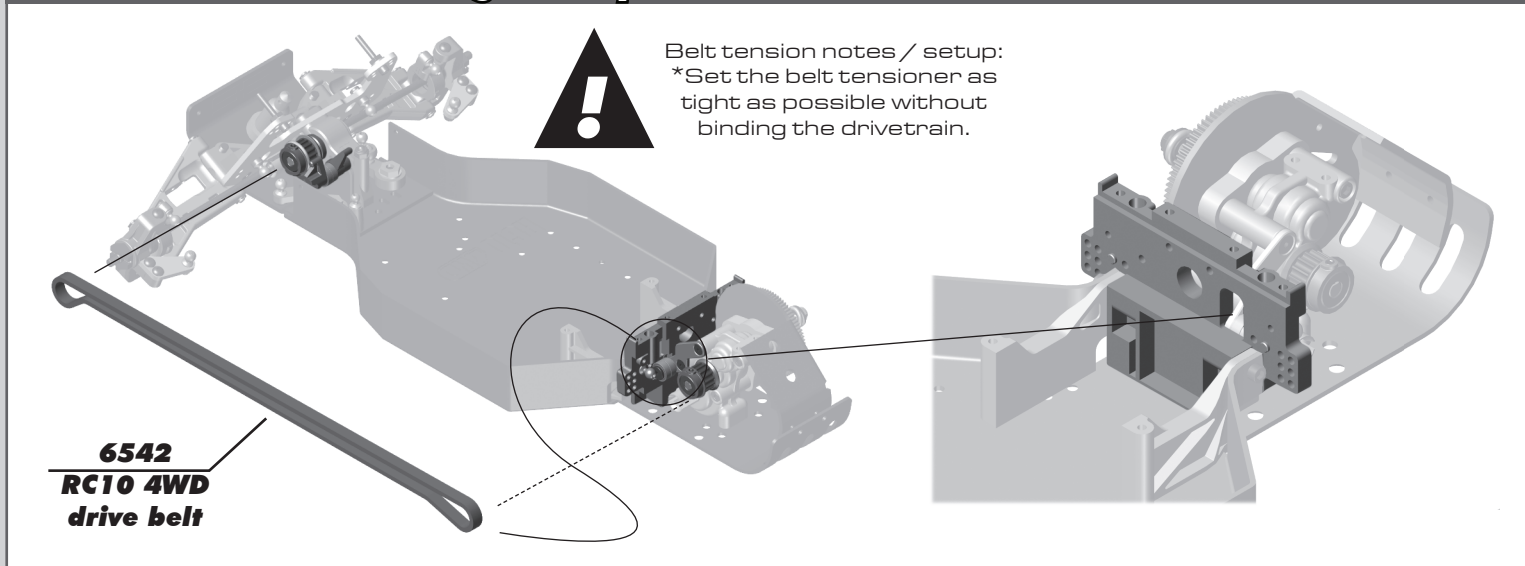
:: Rear Bulkhead Build - Bag D - Step 1



:: Rear Bulkhead Build - Bag D - Step 2



:: Rear Bulkhead Build - Bag D - Step 3



:: Rear Bulkhead Build - Bag D - Step 4

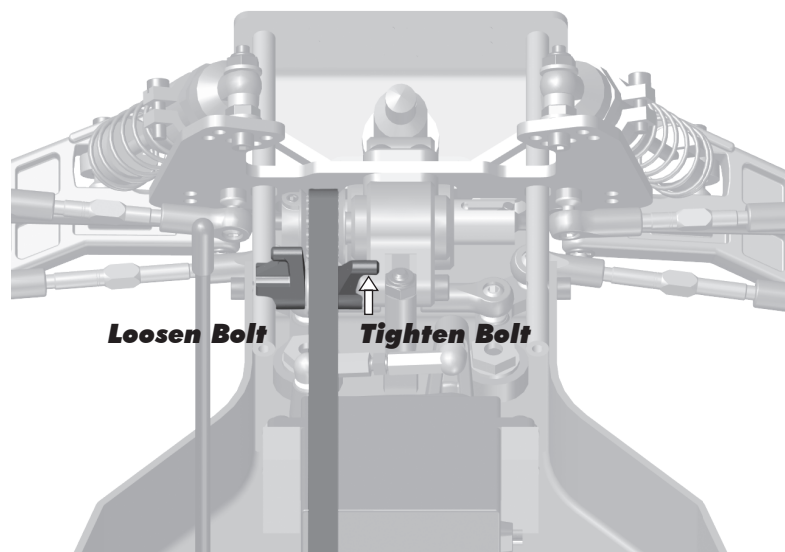


Belt Tensioner:

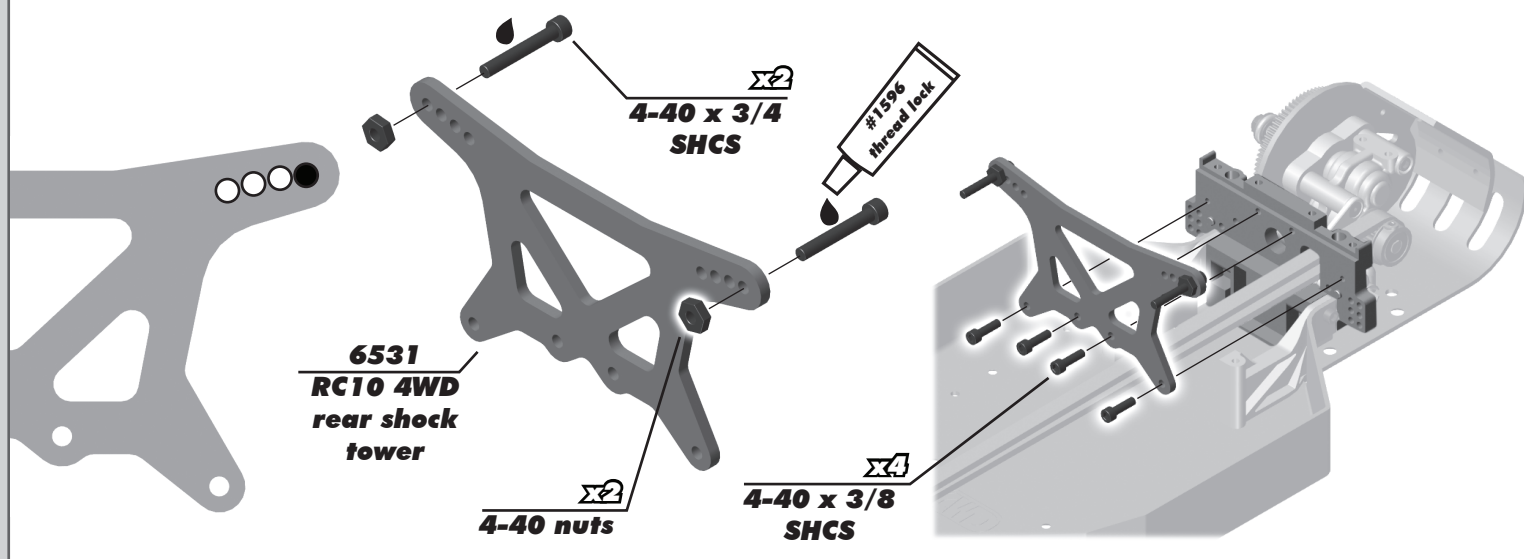
The belt tension is adjustable. The "inner" lever is the adjustment Lever. To tighten the belt, loosen the main bolt on the tension system and rotate the adjustment lever towards the front of the vehicle.

To loosen the belt, adjust the lever the opposite way towards the back of the vehicle. The inner lever keys into notches so one click at a time is recommended for adjustments.

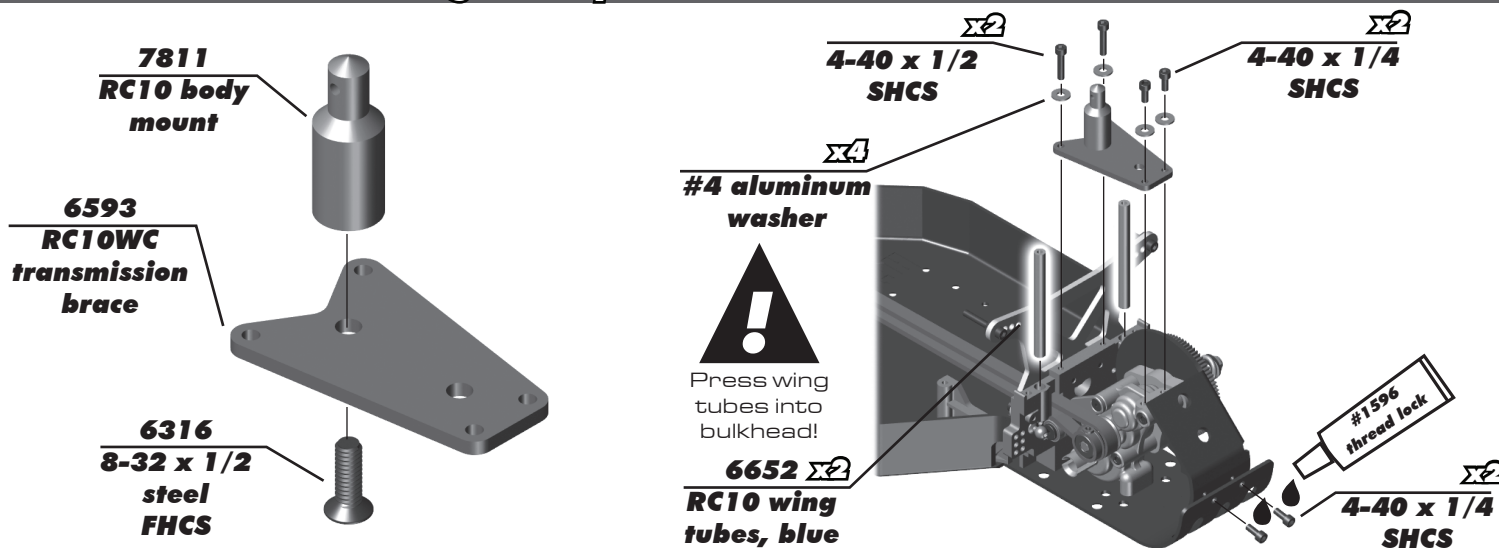
The outer lever is a guide for the belt. For a new car / belt, it is recommended to start around 12 O Clock on the adjustment lever.
(Straight up and Down)



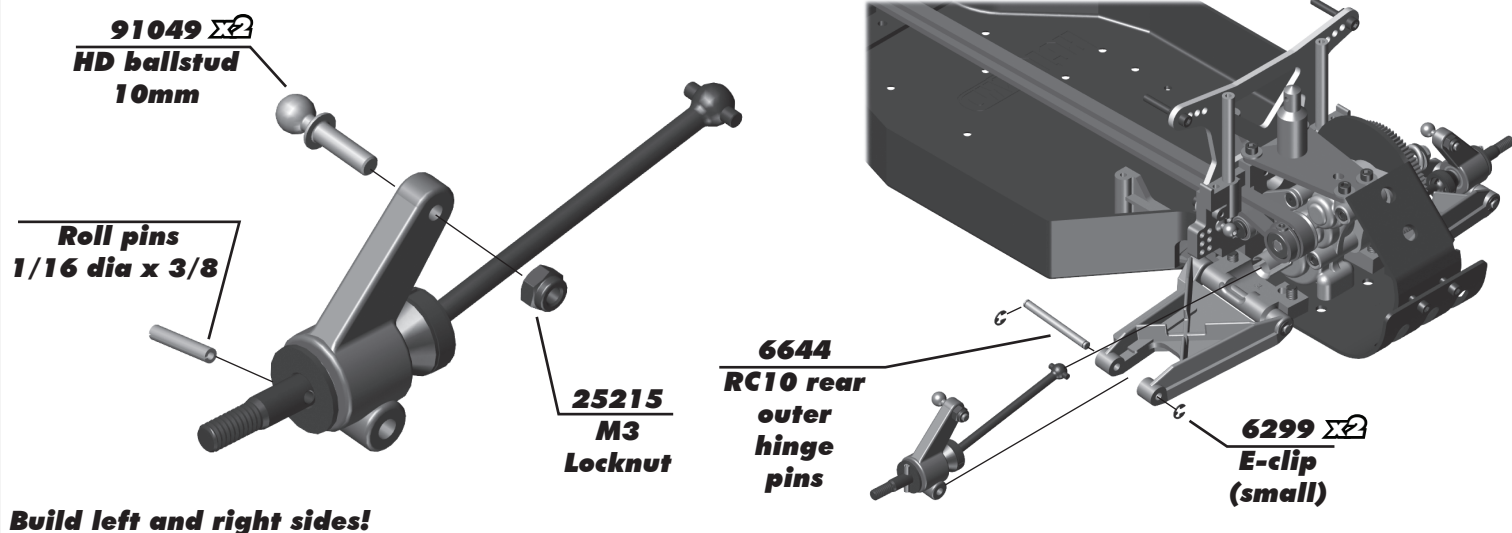
:: Rear Bulkhead Build - Bag D - Step 5



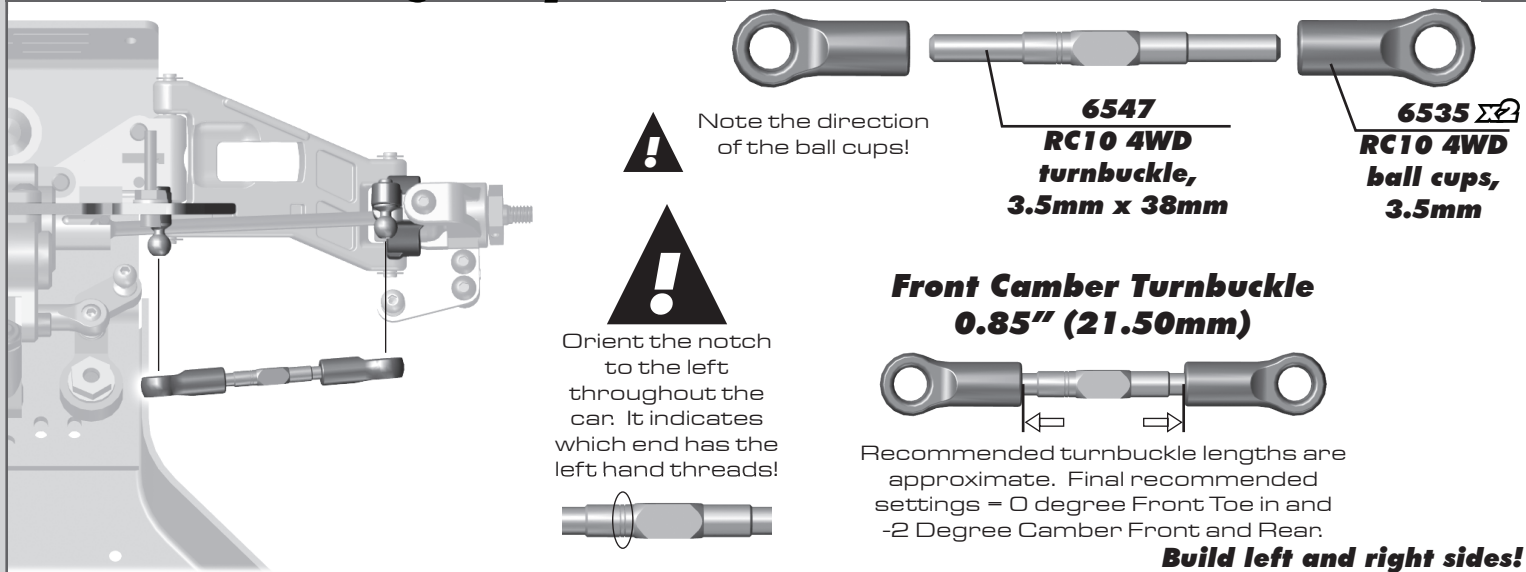
:: Rear Bulkhead Build - Bag D - Step 6



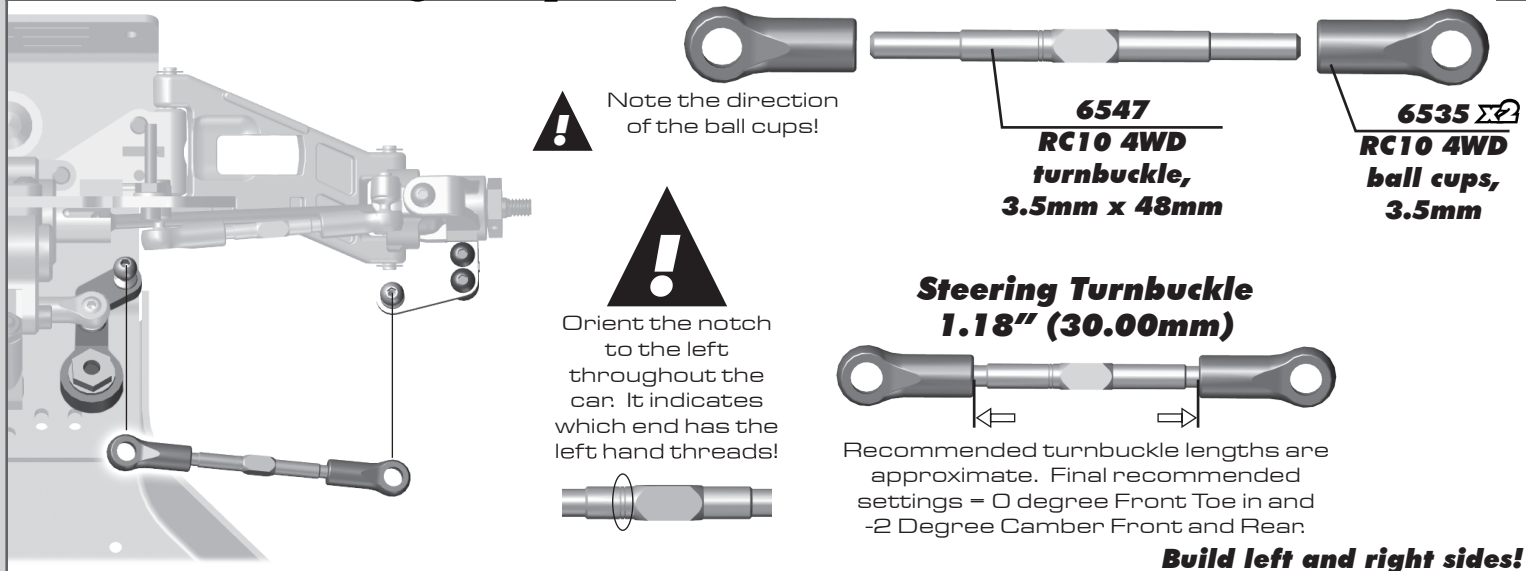
:: Rear Suspension Build - Bag E - Step 4



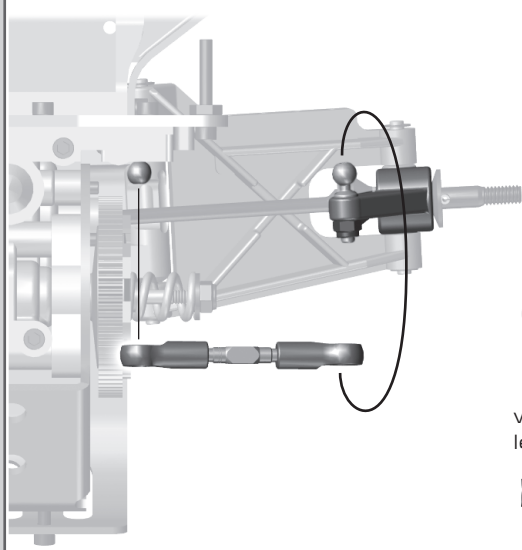
:: Turnbuckle Build - Bag F - Step 1



:: Turnbuckle Build - Bag F - Step 2



:: Turnbuckle Build - Bag F - Step 3



Note the direction of the ball cups!



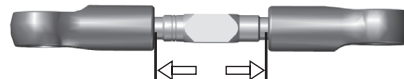
Orient the notch to the left throughout the car. It indicates which end has the left hand threads!



6547
RC10 4WD
turnbuckle,
3.5mm x 33mm

6535
RC10 4WD
ball cups,
3.5mm

Rear Camber Turnbuckle
0.59" (15mm)



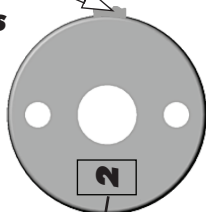
Recommended turnbuckle lengths are approximate. Final recommended settings = 0 degree Front Toe in and -2 Degree Camber Front and Rear.

Build left and right sides!

:: Shocks Build - Bag G - Step 1

Remove spurs

Piston



Piston number here
Use #1 = front shocks
Use #1 = rear shocks



TIP: Use marker to mark the piston numbers for easy identification!

6299
E-clip
(small)

6418
Shock shaft,
front (0.71)

6417
Shock shaft,
rear (1.02)



Shock pistons
(1, 2, 3)



6299
E-clip
(small)

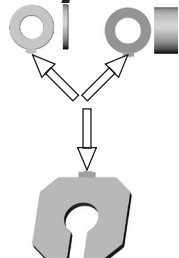


Build two front and two rear!

:: Shocks Build - Bag G - Step 2

5407
Red o-ring

Remove spurs



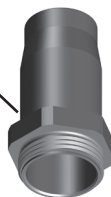
6440
RC10 shock
rebuild kit

6440
Shock
assembly
tool



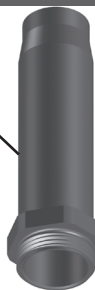
Front Shock

6437
FT Hard
Anodized
shock body,
front (0.71)



Rear Shock

6435
FT Hard
Anodized
shock body,
rear (1.32)

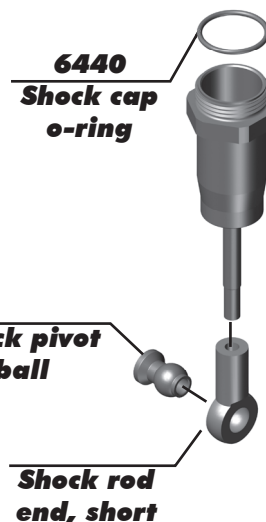
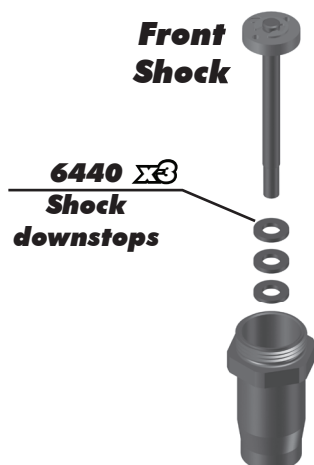


Place on table and push down hard until clamp snaps into place



Front shock fluid: 50wt
Rear shock fluid: 30wt

:: Shocks Build - Bag G - Step 3



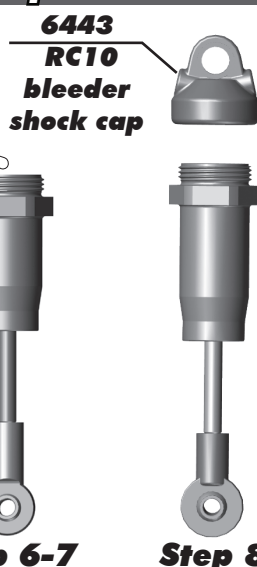
!

Note:
Use the short
rod ends for all
4 shocks!

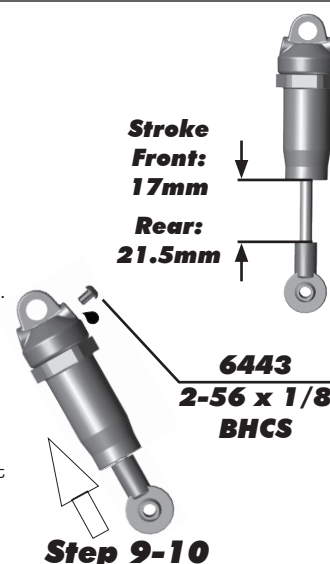
Build two front and two rear!

:: Shocks Build - Bag G - Step 4

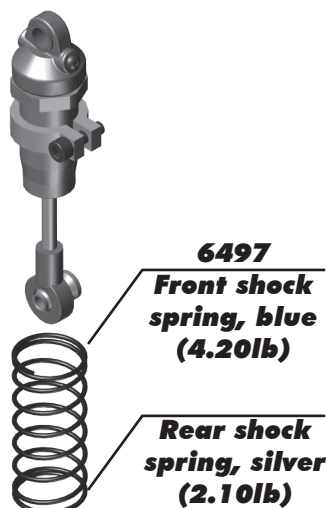
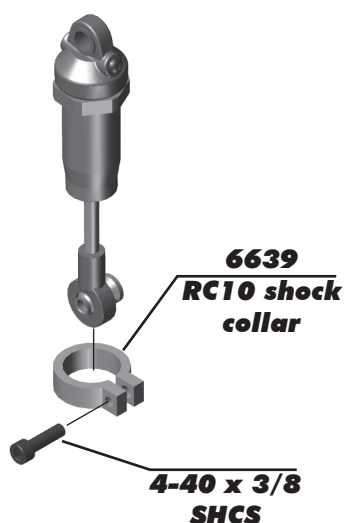
Front shock fluid: 50wt
Rear shock fluid: 35wt



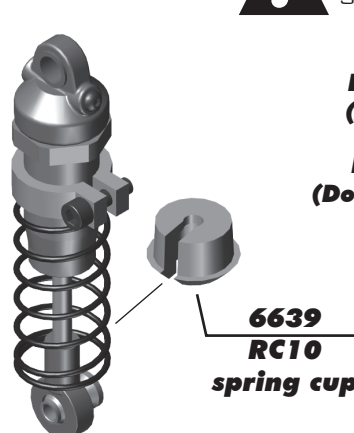
- Shock Bleeding Steps:**
1. Before assembly, get each bleed screw and thread it 1-2 turns into the shock cap, then remove the screw. This will make it easier when you are bleeding your shocks.
 2. Pull shock shaft down.
 3. Fill shock body 3/4 full with silicone shock fluid.
 4. Slowly move the shock 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 button head screw until snug while shaft is fully compressed.



:: Shocks Build - Bag G - Step 5



Due to various weights of electronics, these settings may change

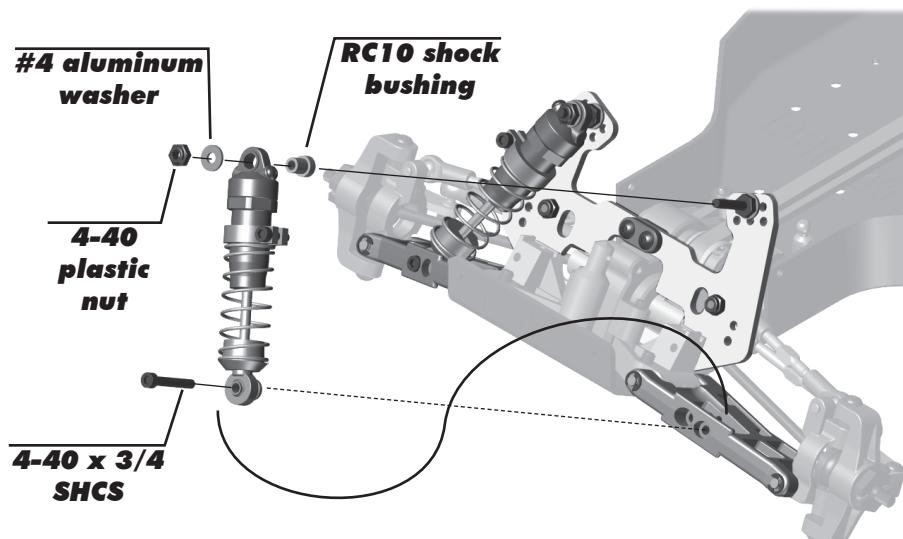


Front: 5mm (Arms level)

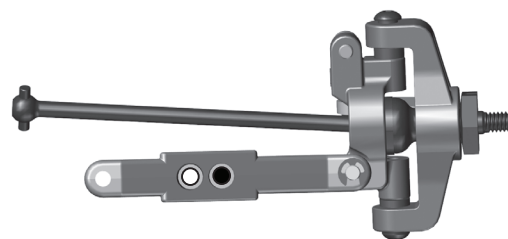
Rear: 3mm (Dog bones level)

Build two front and two rear!

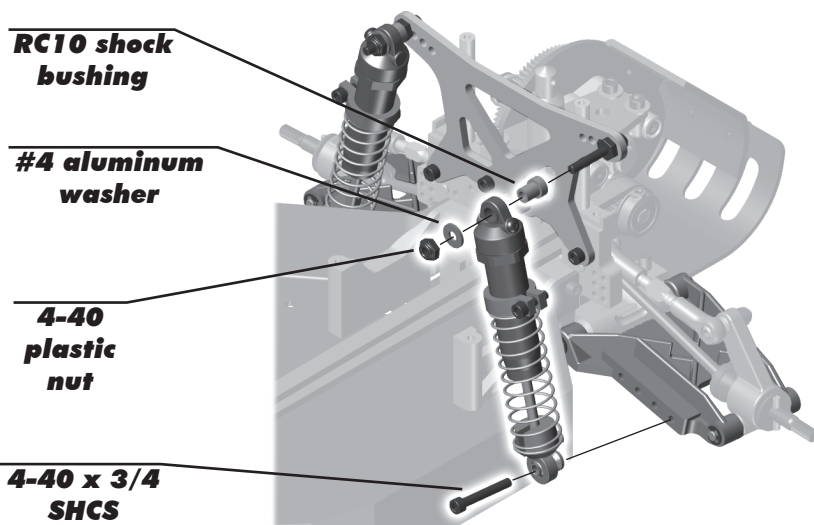
:: Shocks Build - Bag G - Step 6



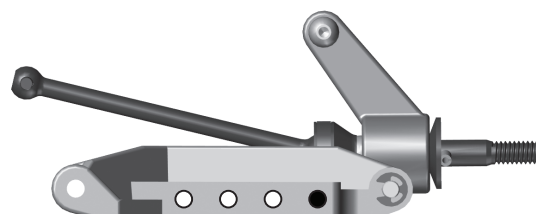
Build left and right sides!



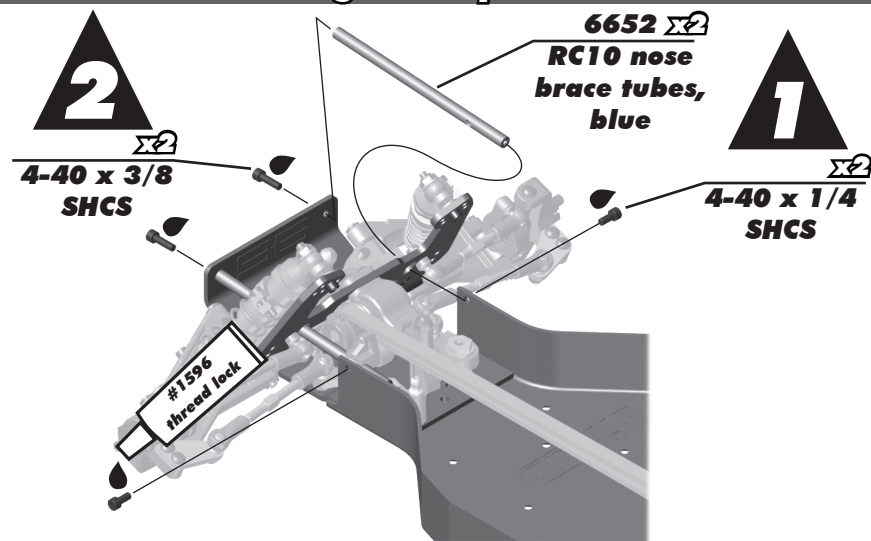
:: Shocks Build - Bag G - Step 7



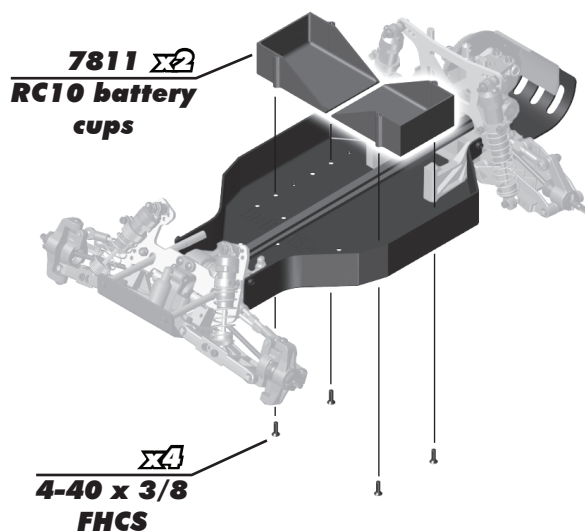
Build left and right sides!



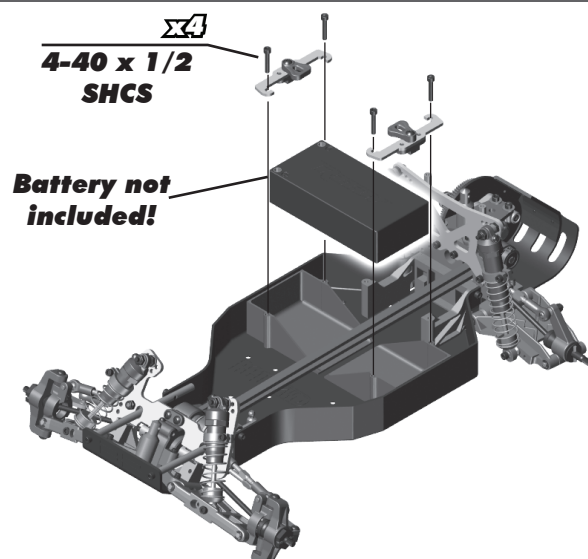
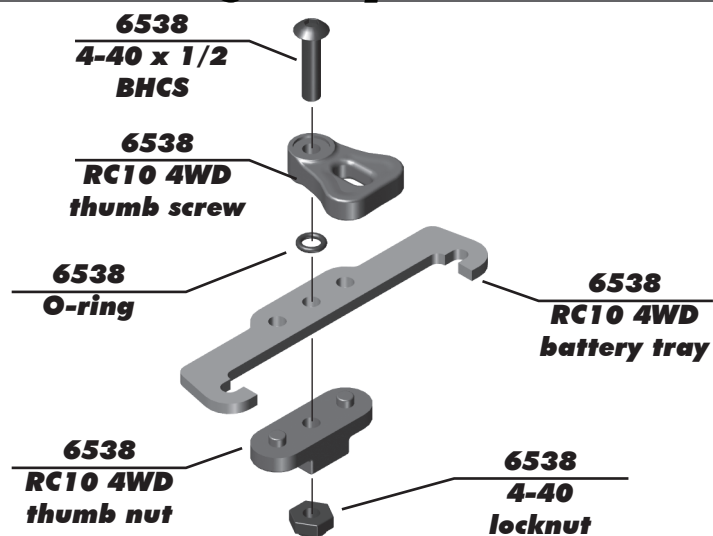
:: Chassis Build - Bag H - Step 1



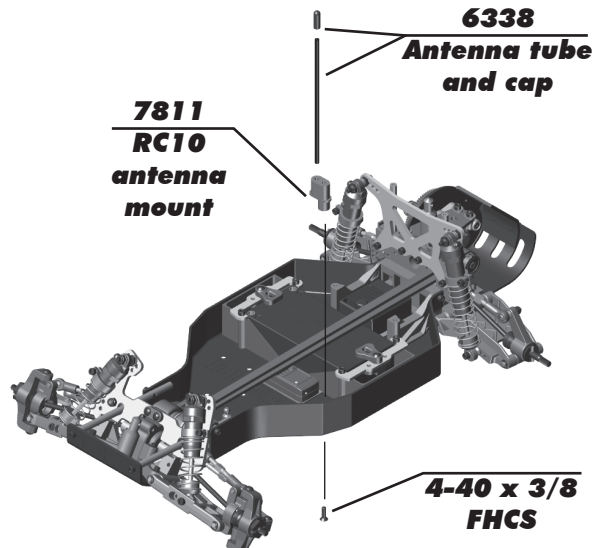
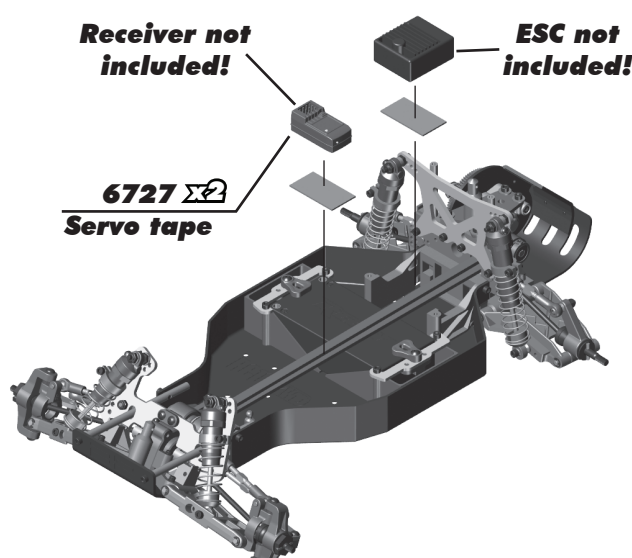
Build left and right sides!



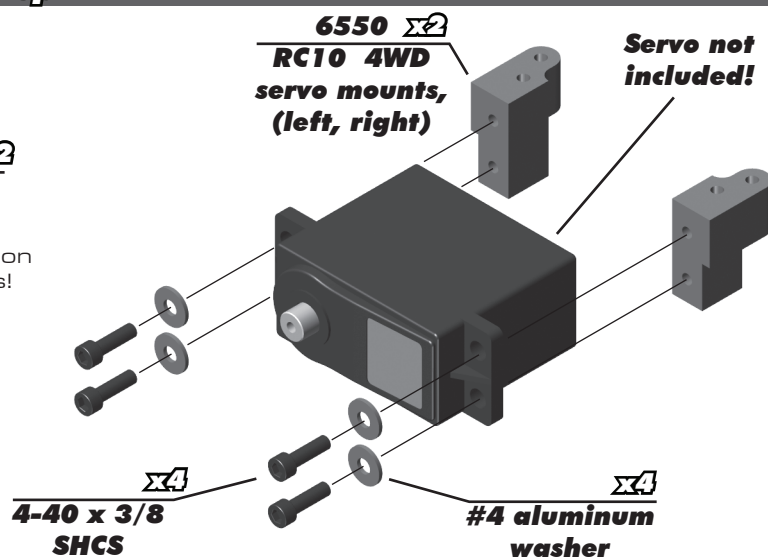
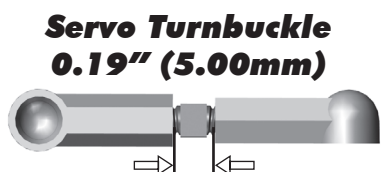
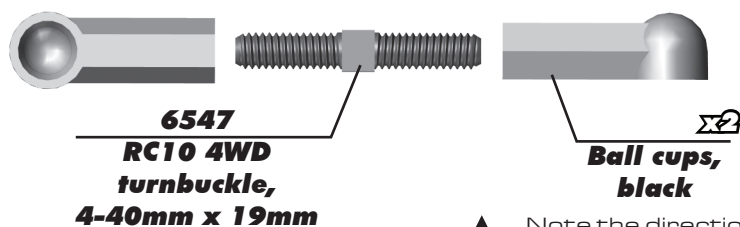
:: Chassis Build - Bag H - Step 2



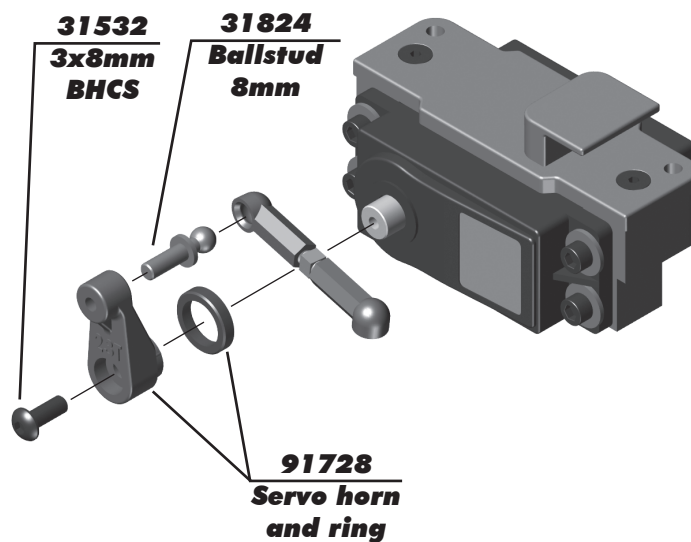
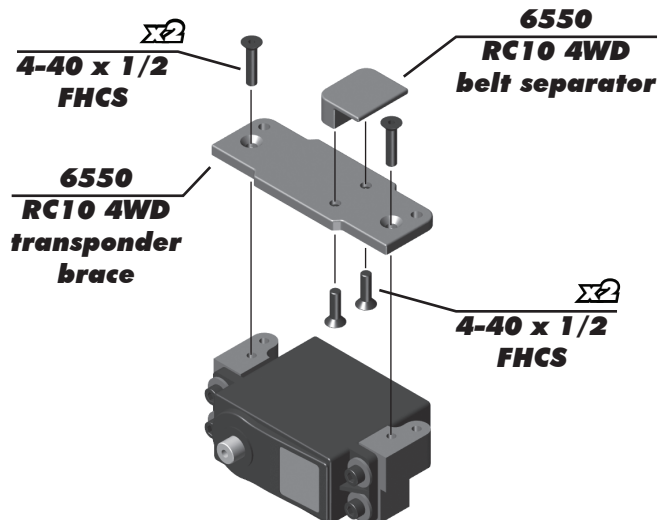
:: Chassis Build - Bag H - Step 3



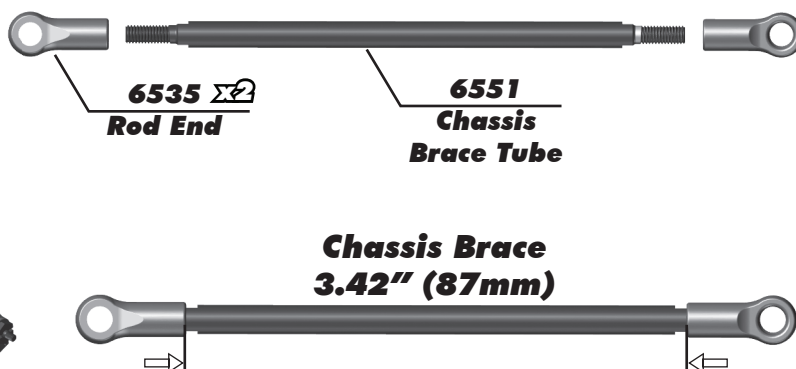
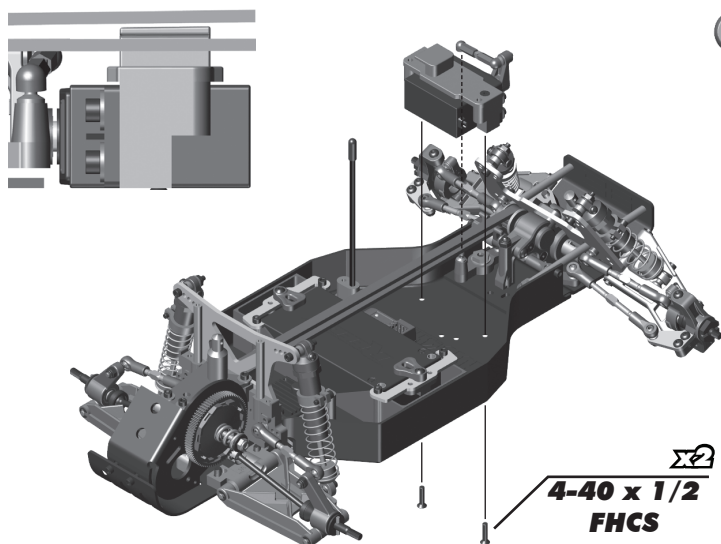
:: Servo / Chassis Stiffeners Build - Bag I - Step 1



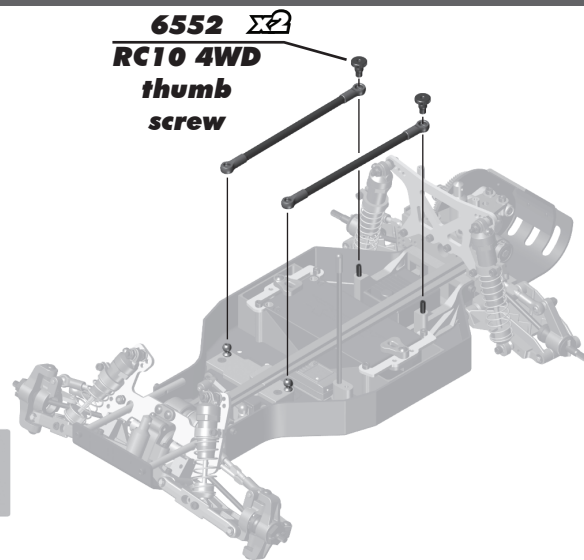
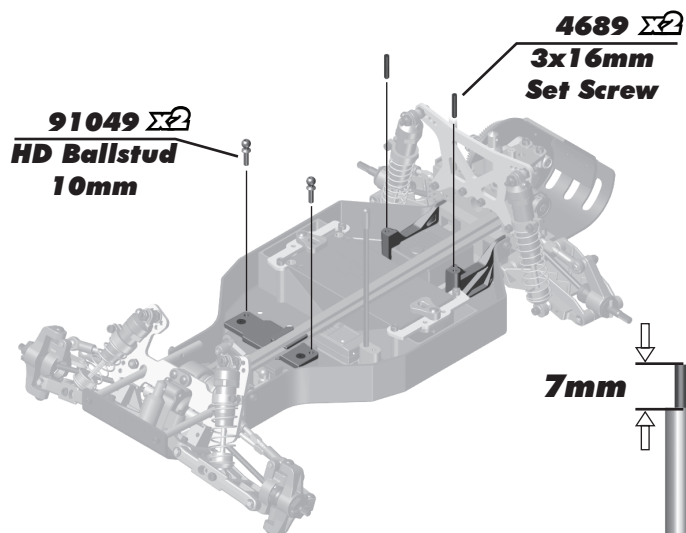
:: Servo / Chassis Stiffeners Build - Bag I - Step 2



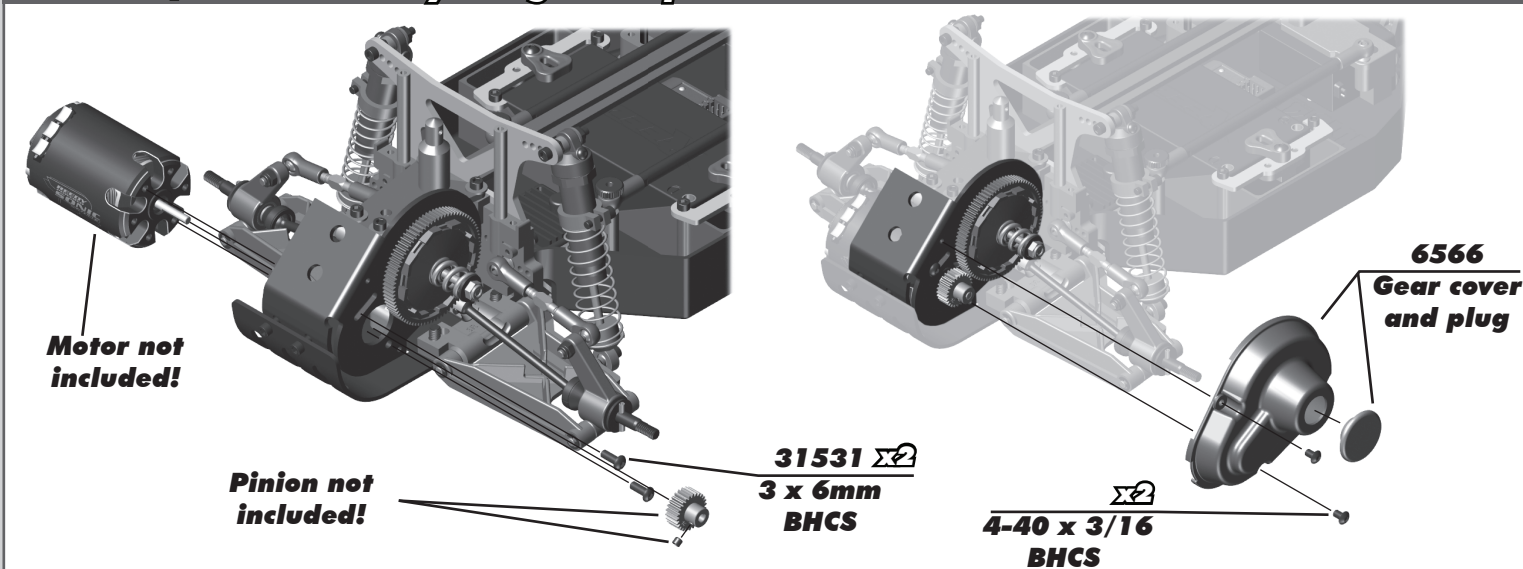
:: Servo / Chassis Stiffeners Build - Bag I / F - Step 3



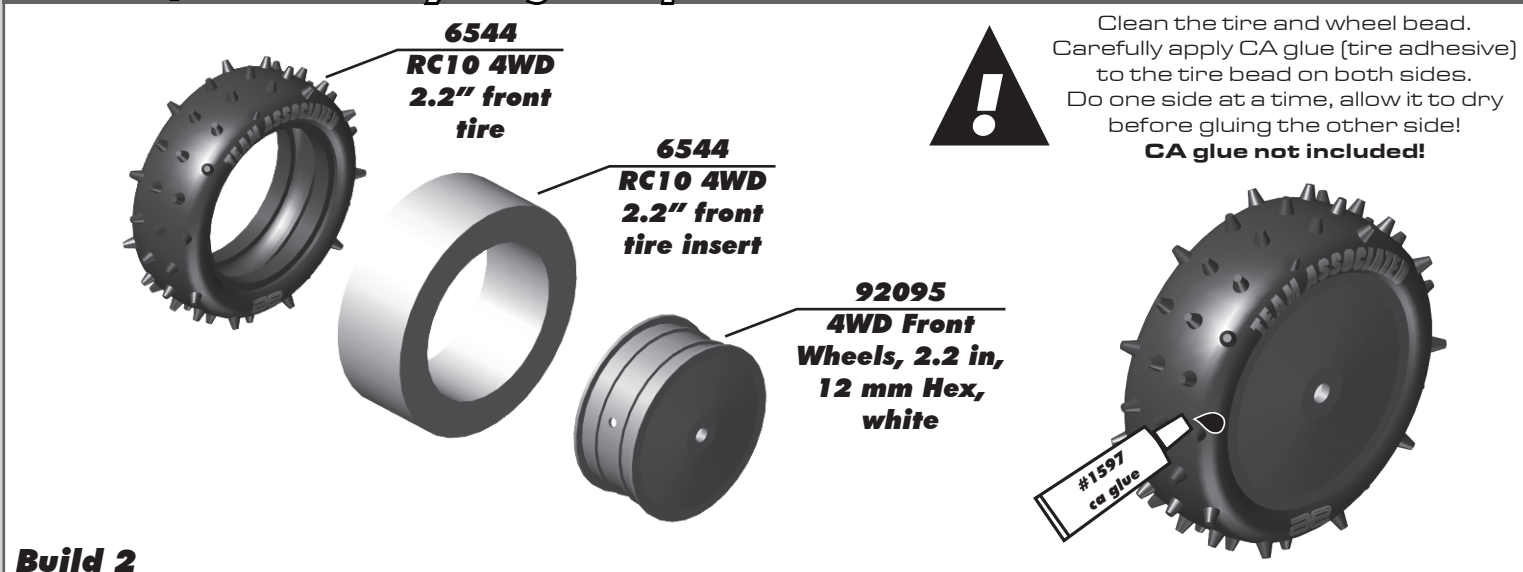
:: Servo / Chassis Stiffeners Build - Bag I - Step 4



:: Wheels / Tires and Body - Bag J - Step 1

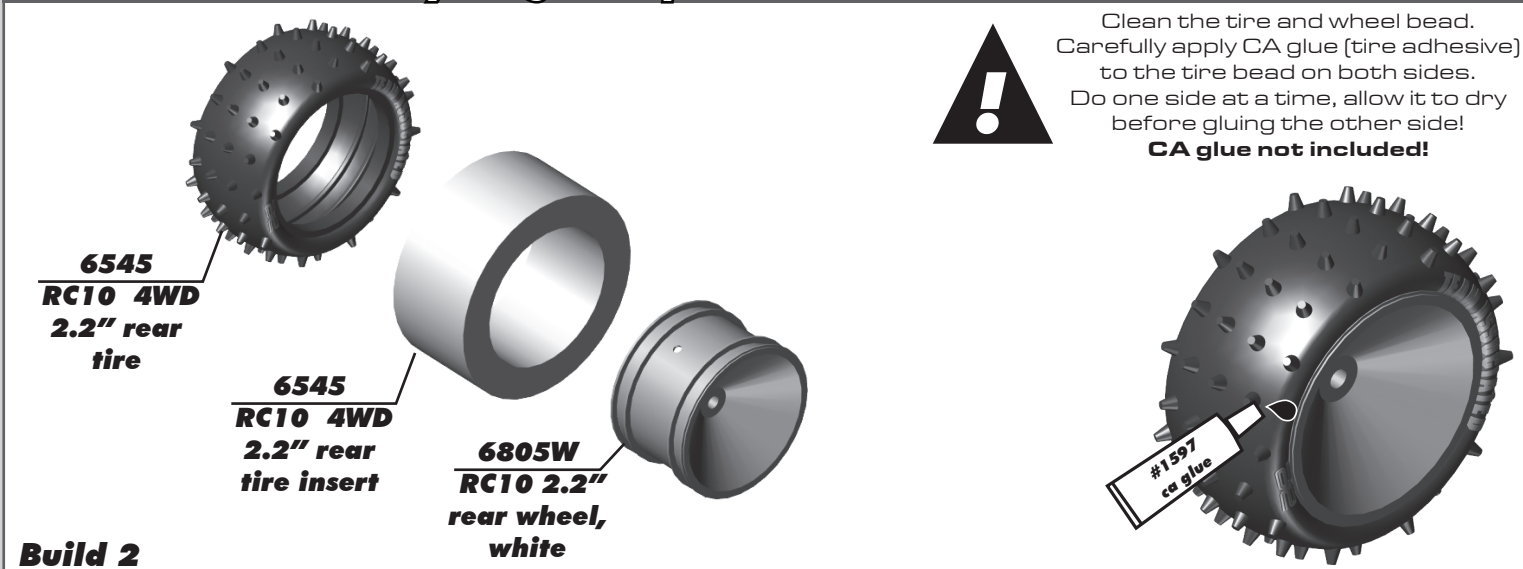


:: Wheels / Tires and Body - Bag J - Step 2



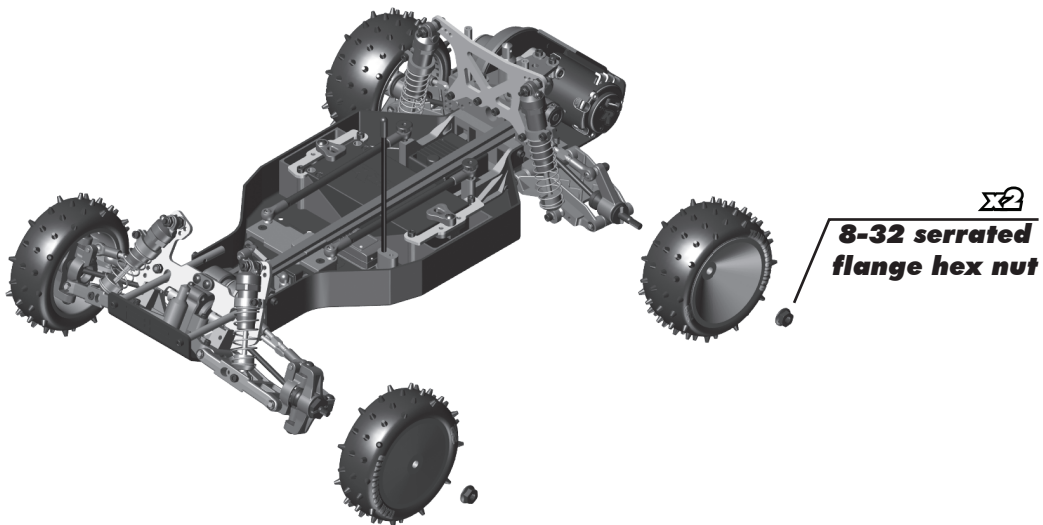
Build 2

:: Wheels / Tires and Body - Bag J - Step 3



Build 2

:: Wheels / Tires and Body - Bag J - Step 4



:: Wheels / Tires and Body - Bag J - Step 5

Painting Tips:

Your RC 10 Kit comes with a clear polycarbonate body and wing. You will need to prep the body and wing before you can paint them. Wash the inside thoroughly with warm water and liquid detergent. Dry the body and wing using a clean, soft, lint-free cloth. Use high quality masking tape to make masks for the windows and install them on the inside of the body (RC cars get painted from the inside).

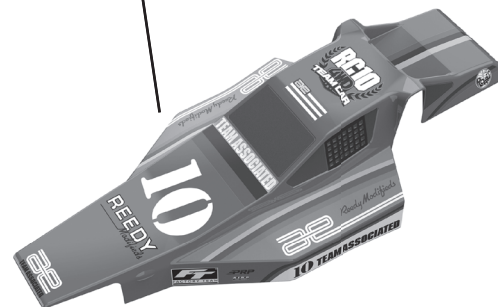
Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (either rattle can or airbrush R/C specific paint) the paint to the inside of the body (preferably dark colors first, lighter colors last).

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

It is recommended to wear a mask while painting.

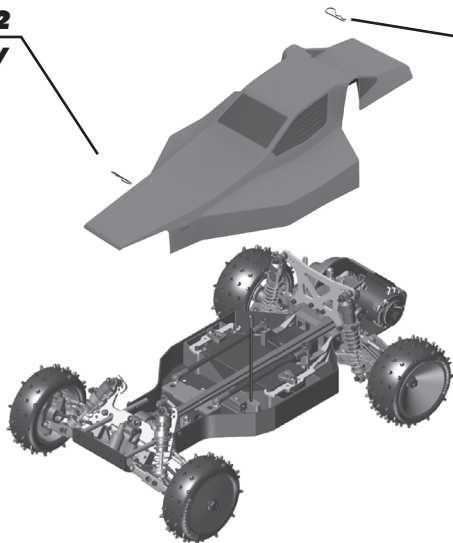
After the paint has dried, cut the body and wing along the trim lines. Make sure to drill or use a body reamer to make the holes for the body mounts, wing mounts, and antenna!

6121
RC10 Viper
body,
unpainted



:: Wheels / Tires and Body - Bag J - Step 6

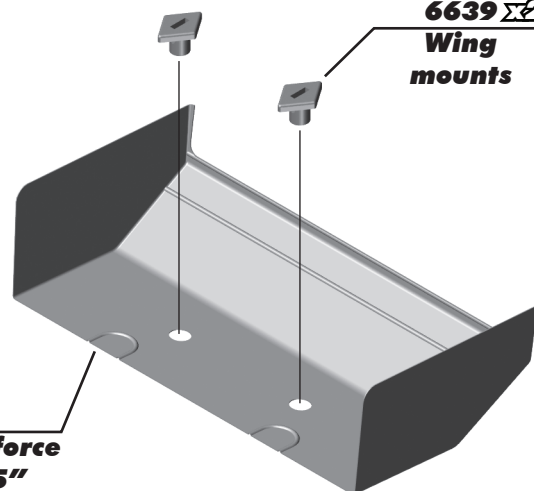
6332
Body
clip



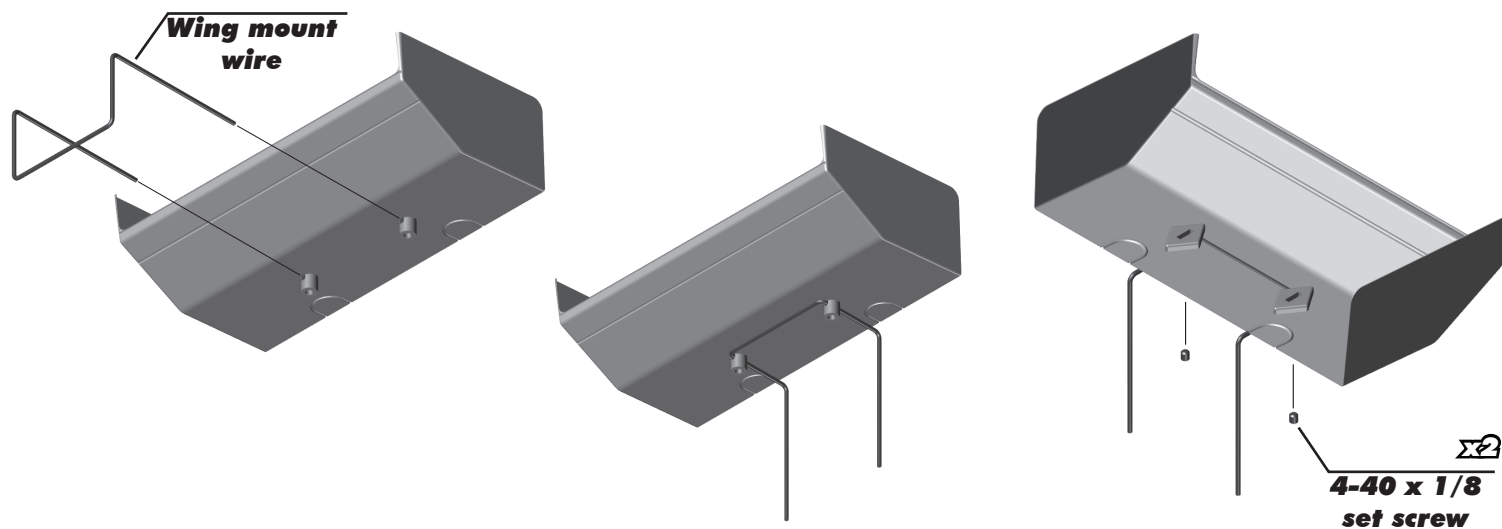
6332
Body
clip

6639 x2
Wing
mounts

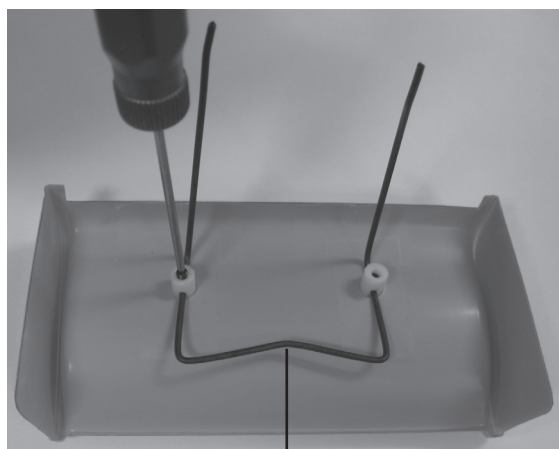
6182
High downforce
wing, 5.5"



:: Wheels / Tires and Body - Bag J - Step 7



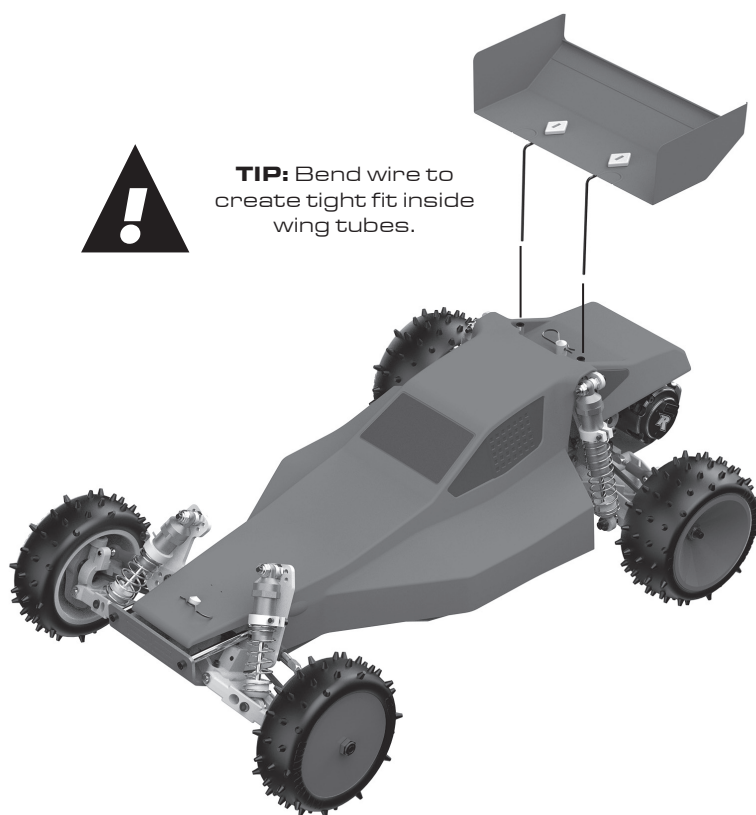
:: Wheels / Tires and Body - Bag J - Step 8



TIP: Bending the wire as shown can help ensure the wing buttons are parallel.



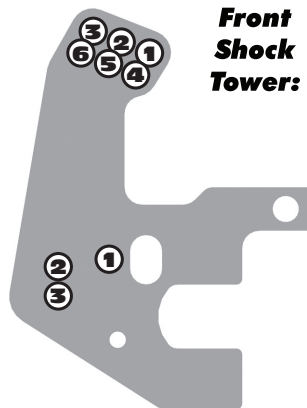
TIP: Bend wire to create tight fit inside wing tubes.



TEAM ASSOCIATED RC10 4WD SETUP SHEET

Driver: _____ Date: _____
Track: _____ Event: _____
Conditions: Indoor ☐ Outdoor ☐ Temp. _____ Rev.1

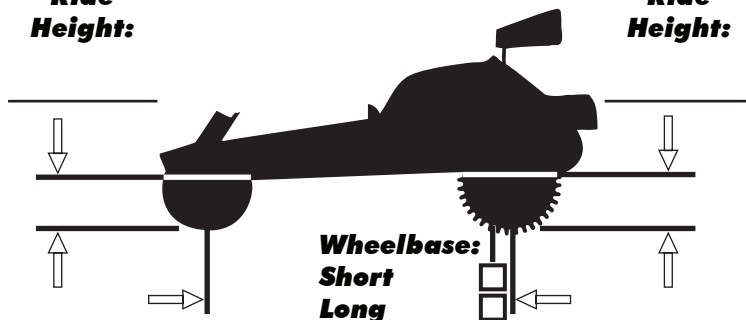
Shock Towers



Ride Height / Wheelbase

Front Ride Height:

Rear Ride Height:



Front Suspension

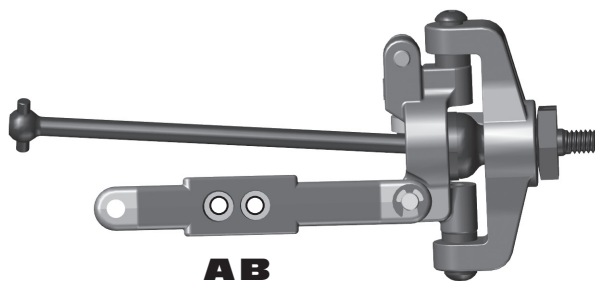
Camber: _____

Toe: _____

Caster:

15° ☐

30° ☐



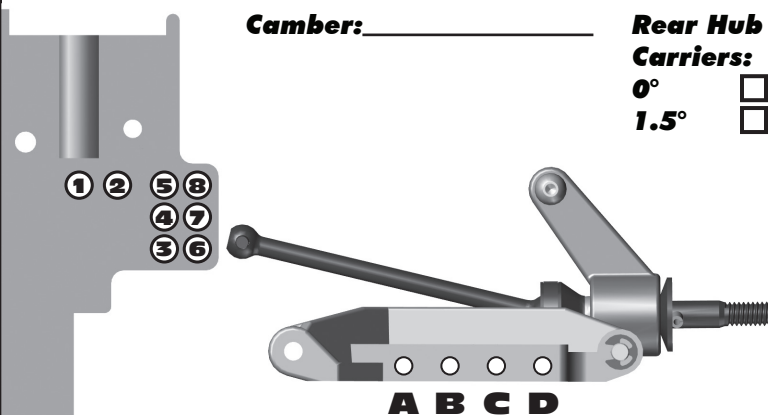
Rear Suspension

Camber: _____

Rear Hub Carriers:

0° ☐

1.5° ☐



Front Shocks

Spring: _____

Shock Oil: _____

Piston: _____

Limiter: _____

Rear Shocks

Spring: _____

Shock Oil: _____

Piston: _____

Limiter: _____

Motor / Battery

Motor & Wind: _____

Pinion: _____ Spur Gear: _____

Battery: _____

Notes: _____

Radio / ESC Settings

Radio: _____

Throttle / Brake e.p.a: _____

Throttle / Brake expo: _____

Servo: _____ Steering Expo: _____

ESC: _____

ESC Settings: _____

Weight

Battery Placement: _____

Ballast Weight: _____

Notes: _____

Other

Body Type: _____

Wing Type: _____

Front Tires

Tire: _____

Compound: _____

Insert: _____ Wheel: _____

Rear Tires

Tire: _____

Compound: _____

Insert: _____ Wheel: _____

Race and Vehicle Comments

Qualify: _____ Main: _____ Finish: _____ TQ: _____

Comments: _____

Track Info

Surface:

Dirt ☐

Carpet ☐

Astro ☐

Multi ☐

Traction:

Low ☐

Med ☐

High ☐

Conditions:

Grooved ☐

Dusty ☐

Smooth ☐

Bumpy ☐

Hard Pack ☐

Loamy ☐

Moisture:

Wet ☐

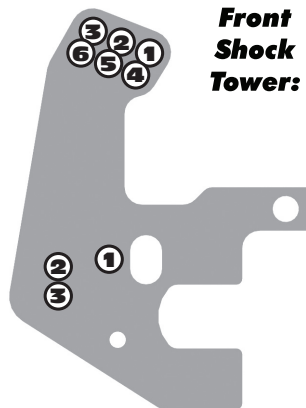
Damp ☐

Dry ☐

TEAM ASSOCIATED RC10 4WD SETUP SHEET

Driver: _____ Date: _____
Track: _____ Event: _____
Conditions: Indoor ☐ Outdoor ☐ Temp. _____ Rev.1

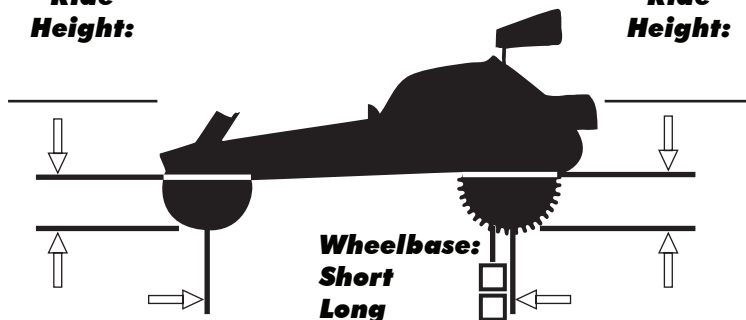
Shock Towers



Ride Height / Wheelbase

Front Ride Height:

Rear Ride Height:



Front Suspension

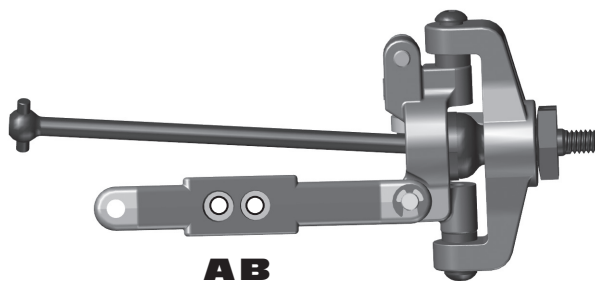
Camber: _____

Toe: _____

Caster: _____

15° ☐

30° ☐



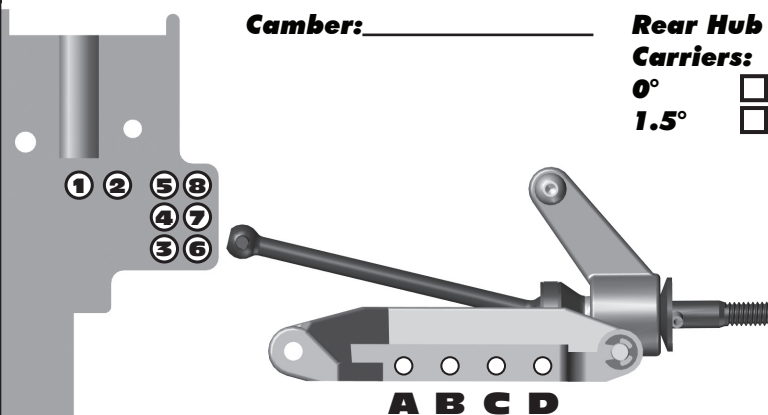
Rear Suspension

Camber: _____

Rear Hub Carriers: _____

0° ☐

1.5° ☐



Front Shocks

Spring: _____

Shock Oil: _____

Piston: _____

Limiter: _____

Rear Shocks

Spring: _____

Shock Oil: _____

Piston: _____

Limiter: _____

Motor / Battery

Motor & Wind: _____

Pinion: _____ Spur Gear: _____

Battery: _____

Notes: _____

Radio / ESC Settings

Radio: _____

Throttle / Brake e.p.a: _____

Throttle / Brake expo: _____

Servo: _____ Steering Expo: _____

ESC: _____

ESC Settings: _____

Weight

Battery Placement: _____

Ballast Weight: _____

Notes: _____

Other

Body Type: _____

Wing Type: _____

Front Tires

Tire: _____

Compound: _____

Insert: _____ Wheel: _____

Rear Tires

Tire: _____

Compound: _____

Insert: _____ Wheel: _____

Race and Vehicle Comments

Qualify: _____ Main: _____ Finish: _____ TQ: _____

Comments: _____

Track Info

Surface: _____

Dirt ☐

Carpet ☐

Astro ☐

Multi ☐

Traction: _____

Low ☐

Med ☐

High ☐

Conditions: _____

Grooved ☐

Dusty ☐

Smooth ☐

Bumpy ☐

Hard Pack ☐

Loamy ☐

Moisture: _____

Wet ☐

Damp ☐

Dry ☐



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