



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

Features in the RC10 4WD Kit:

- Authentic Never Released RC10 4WD Concept Race Buggy
- 4WD Gold anodized 6061-T6 aluminum monocoque tub chassis
- 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 ProTech body with wing
- New 4wd Specific shock towers front and rear
- Precision Bearings throughout
- Fits 6-cell NiMh and 2S LiPo battery packs
- Adjustable 3.5mm Turnbuckles all around
- Front and Rear CVA Driveshafts
- Durable Low Friction Center Belt and tension system
- Long front arm geometry
- All 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 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) | • Servo Horn (AE #89007) |
| • Steering Servo | • Thread Lock (AE #1596) |
| • Peak detection battery charger | • 5.5mm Hex Driver (AE #1507) |
| • 2S, 7.4V Lipo stick battery or 7.2V NiMH battery | |
| • 2mm Hex Driver (AE #1501) | |
| • Polycarbonate specific paint | |
| • Pinion gear, size to be determined by type and wind of motor you use | |

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 | | |

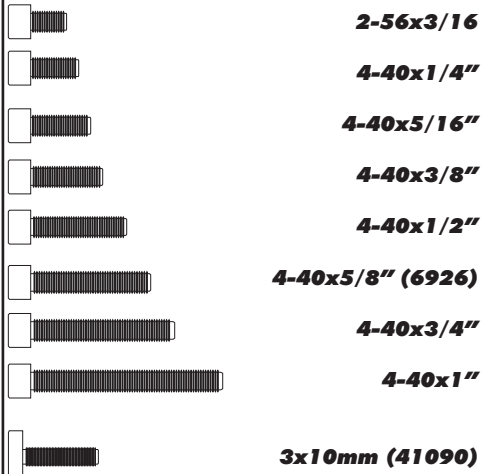
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630



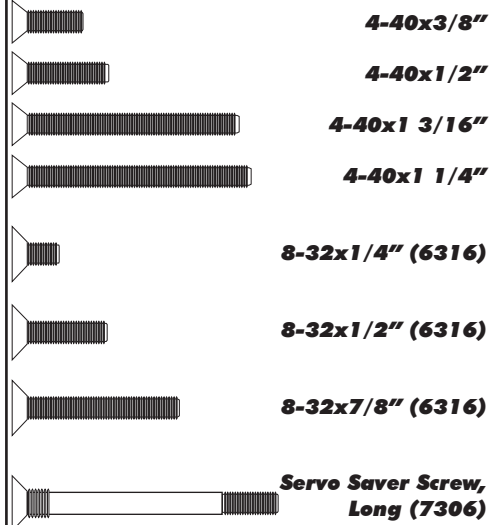
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

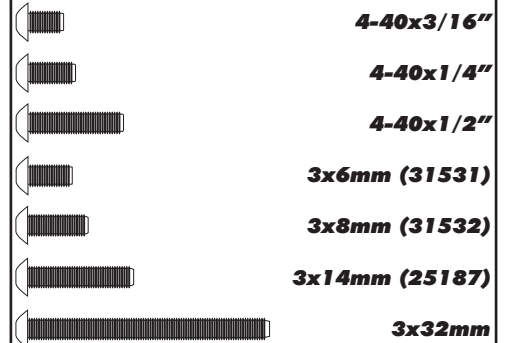
Cap Head (shcs)



Flat Head (fhcs)



Button Head (bhcs)



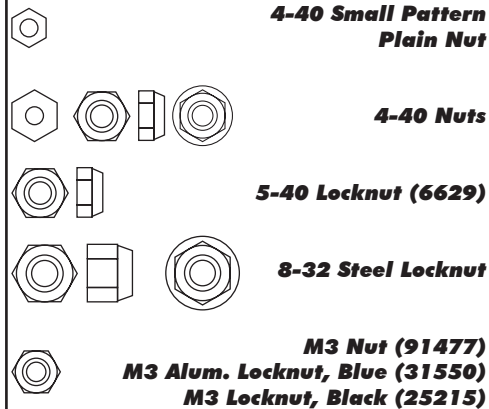
Clips



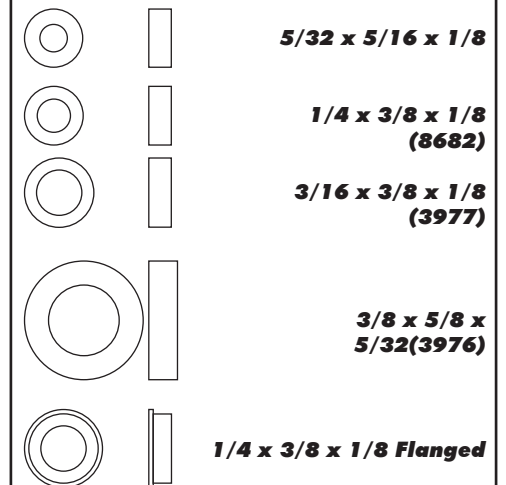
Shims and Washers



Nuts (lock/plain)



Bearings



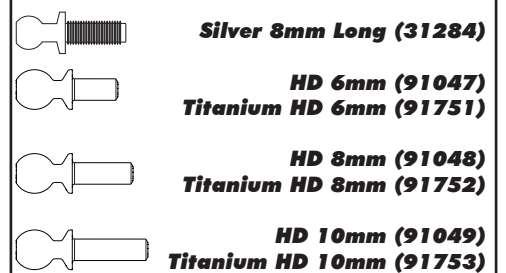
Set Screws



Diff Balls



Ballstuds



Notes:

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1..... Cover	13.....Rear Suspension Build (Bag E)
2..... Introduction	14.....Turnbuckles Build (Bag F)
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5.....Nose Plate / Steering Build (Bag A) (Bag F)	19.....Electronics Build (Bag I)
6..... Differential Build (Bag B)	20.....Wheels, Tires and Body Install (Bag J)
7.....Front Transmission Build (Bag B)	24 - 25.....Setup Sheets
8.....Rear Transmission Build (Bag B)	26..... Back Cover
9.....Front Suspension Build (Bag C)	
11.....Rear Bulkhead Build (Bag D)	

:: Notes



This symbols 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

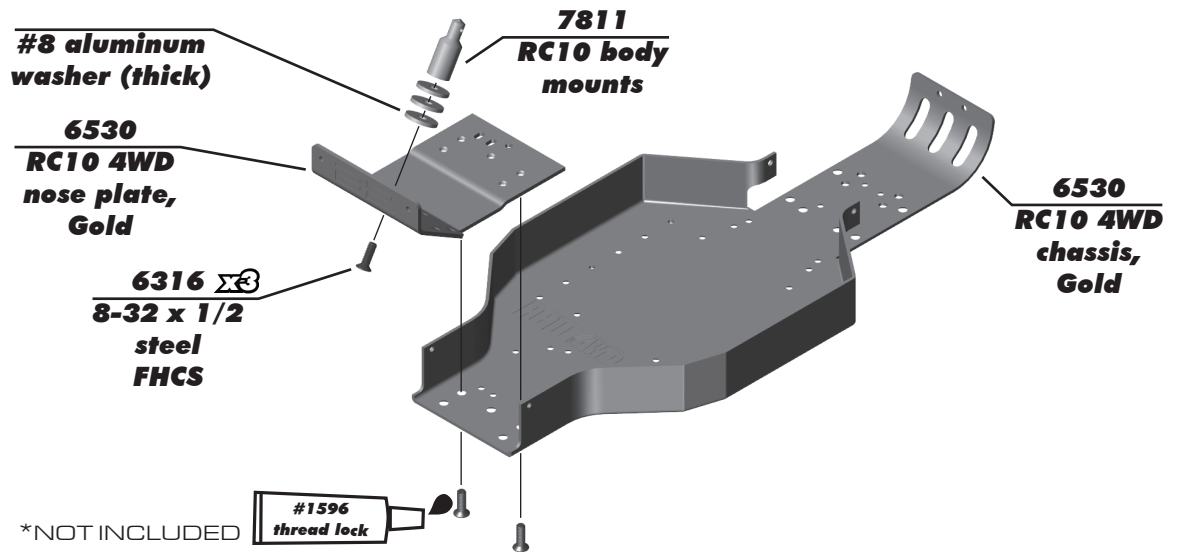


Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

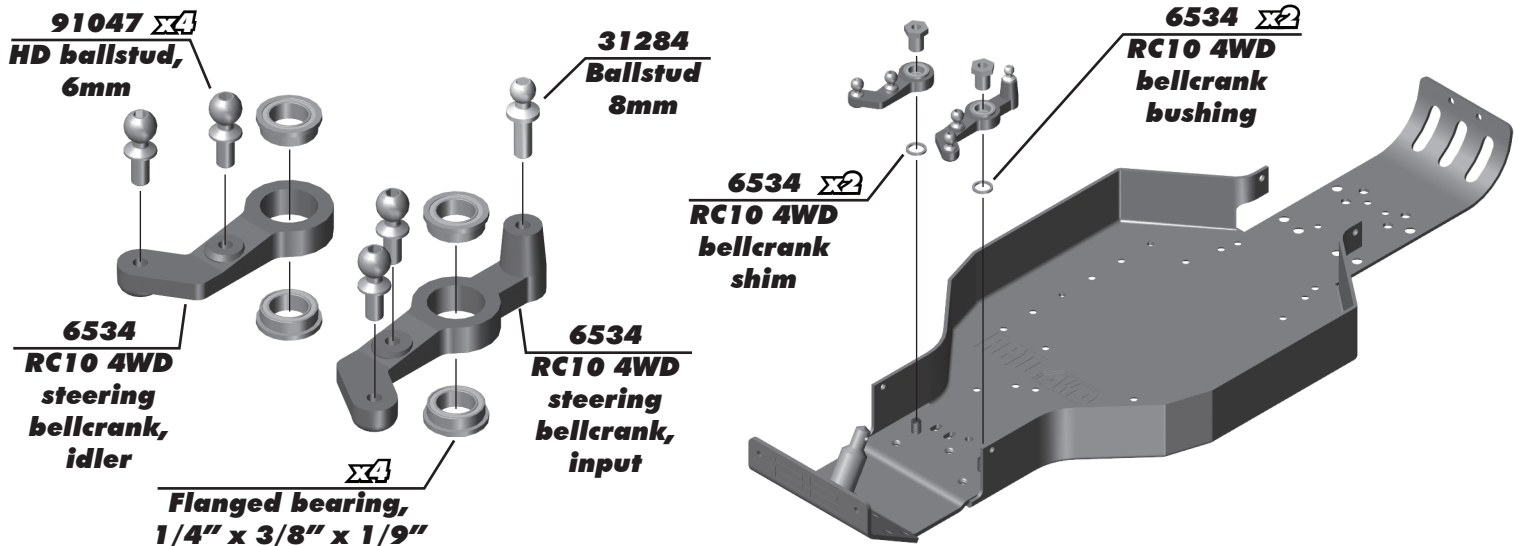
:: Nose Plate / Steering Build - Bag A - Step 1



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



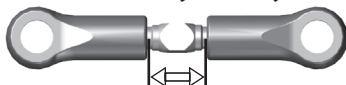
The steering rack turnbuckle parts are in bag F.



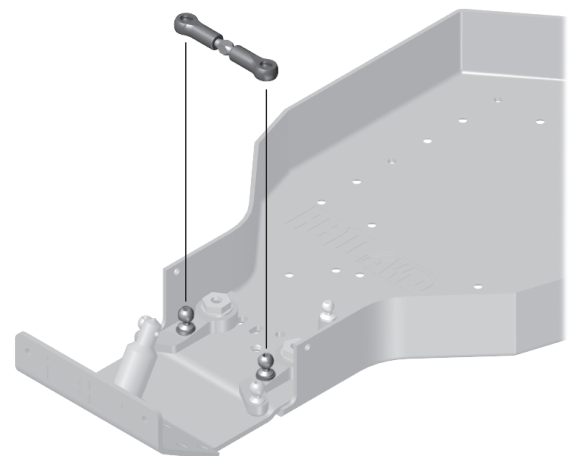
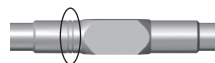
Note the direction of the ball cups!



Steering Rack Turnbuckle 0.31" (8mm)

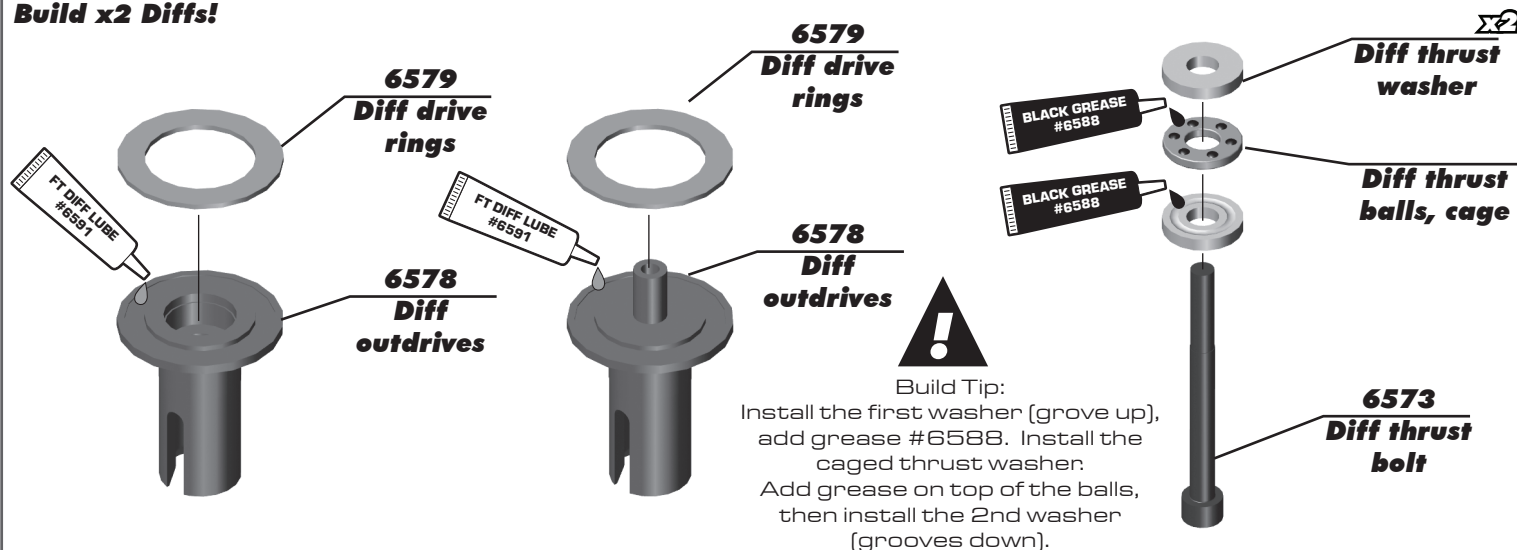


Orient the notch to the left throughout the car. It indicates which end has the left hand threads!

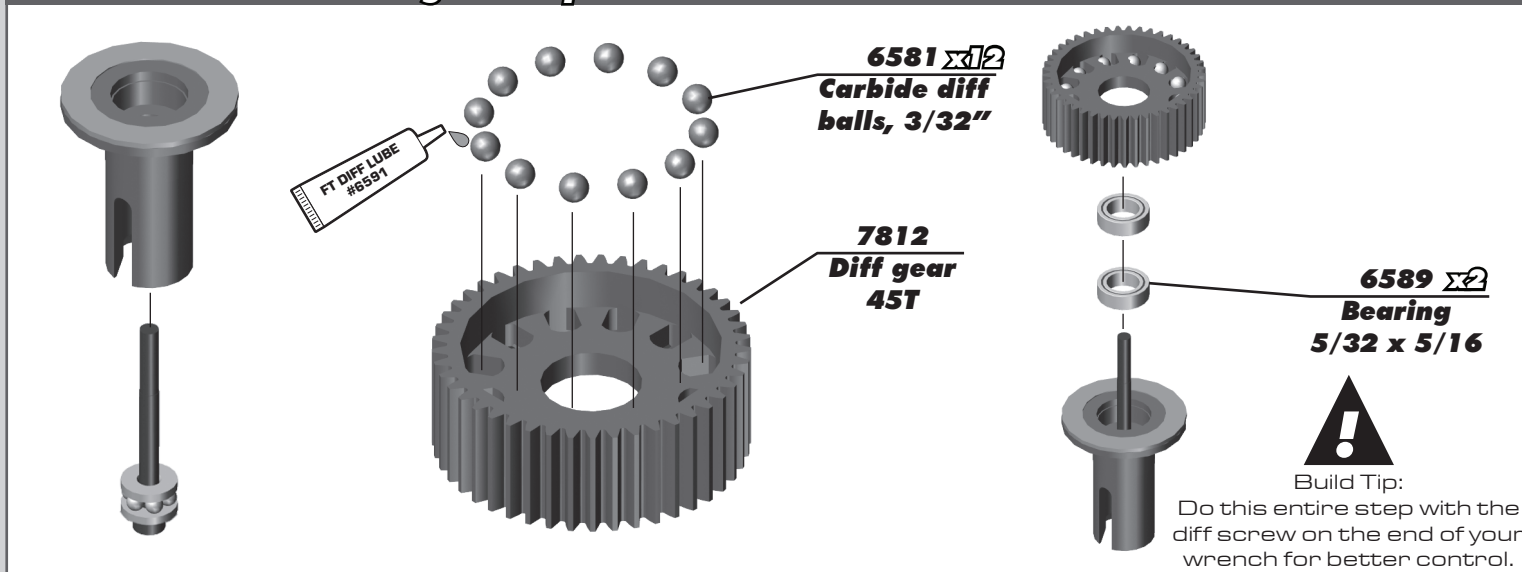


:: Differential Build - Bag B - Step 1

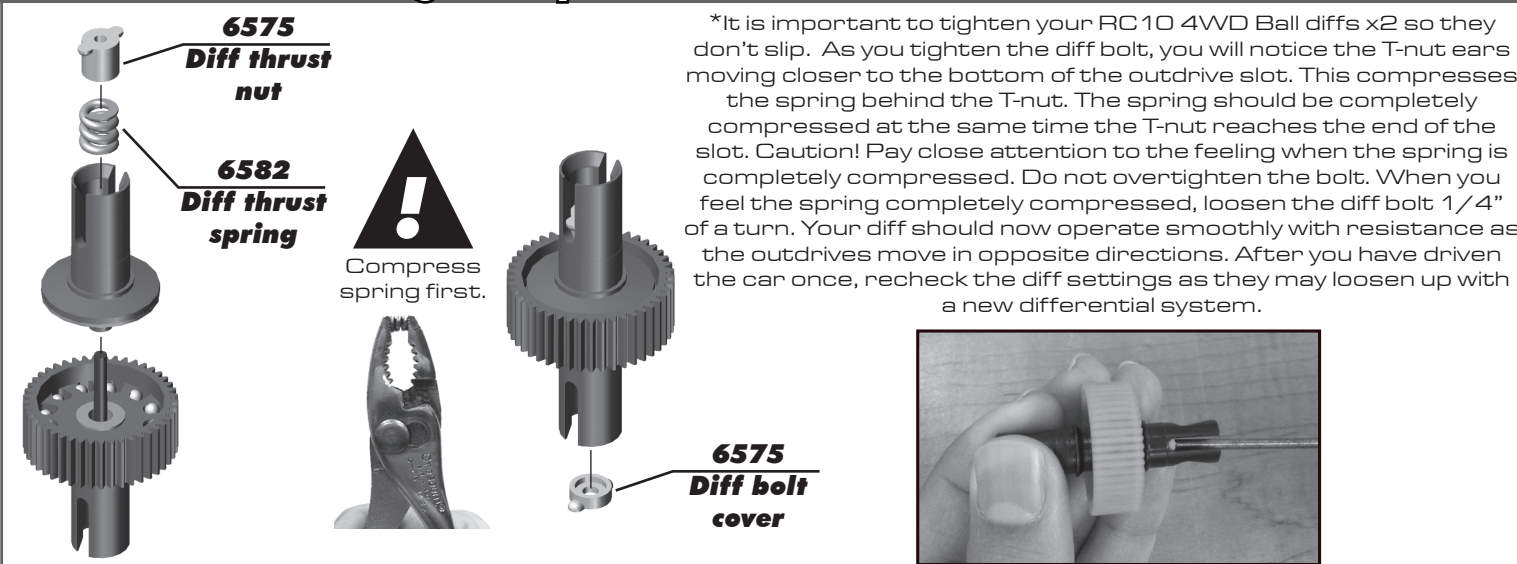
Build x2 Diffs!



:: 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.

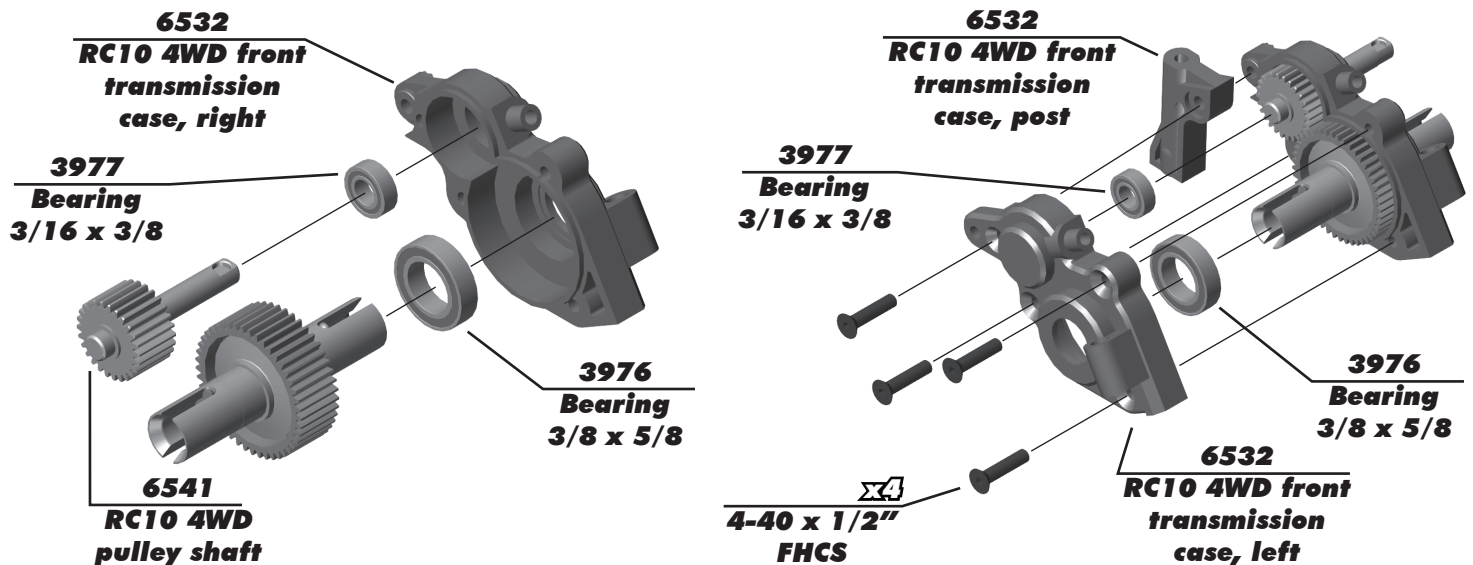
Looser Front Diff: Looser front diff compared to the rear will provide more off power steering and on power stability.

Rear diff settings and setup notes / tips:

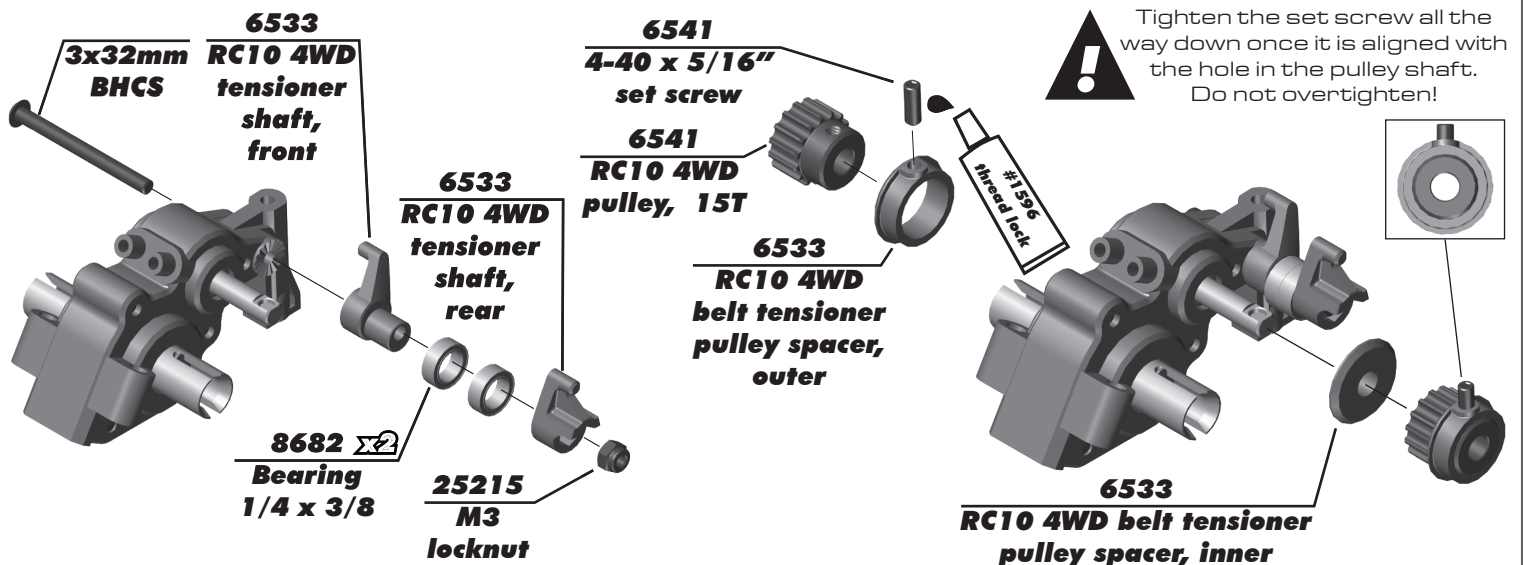
Tighter Rear Diff: Tighter rear diff compared to the front will provide more rear end stability.

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

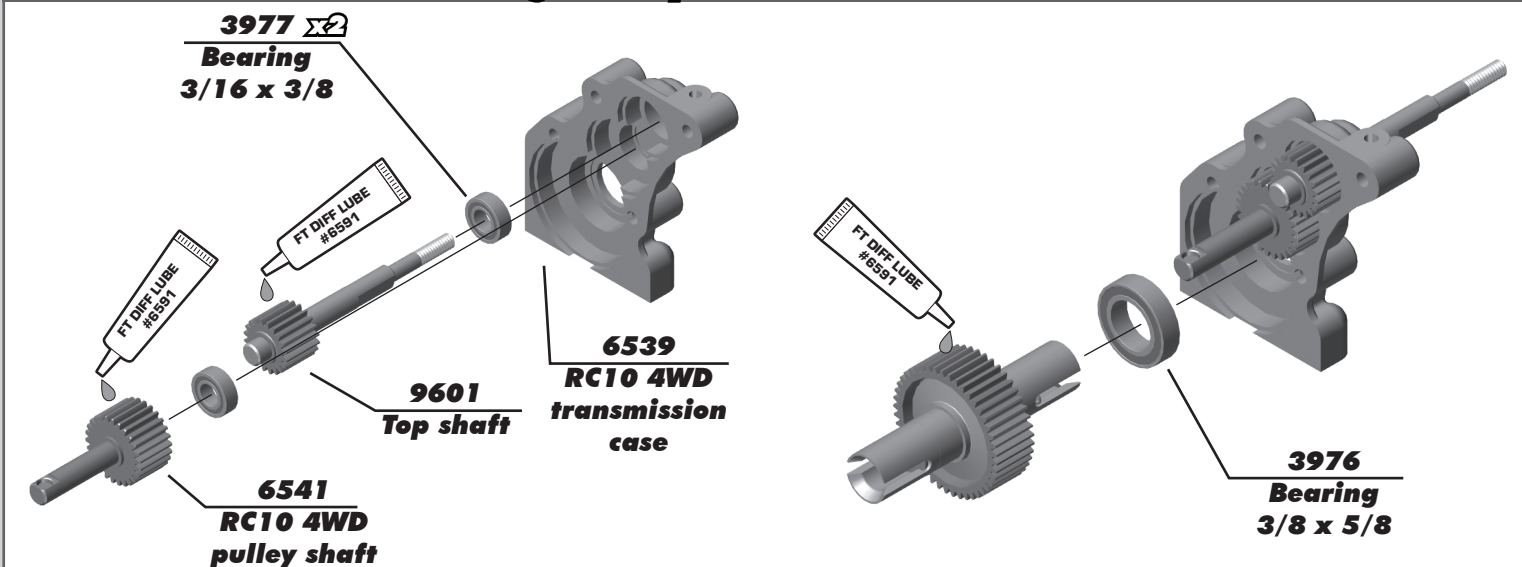
:: Front Transmission Build - Bag B - Step 1



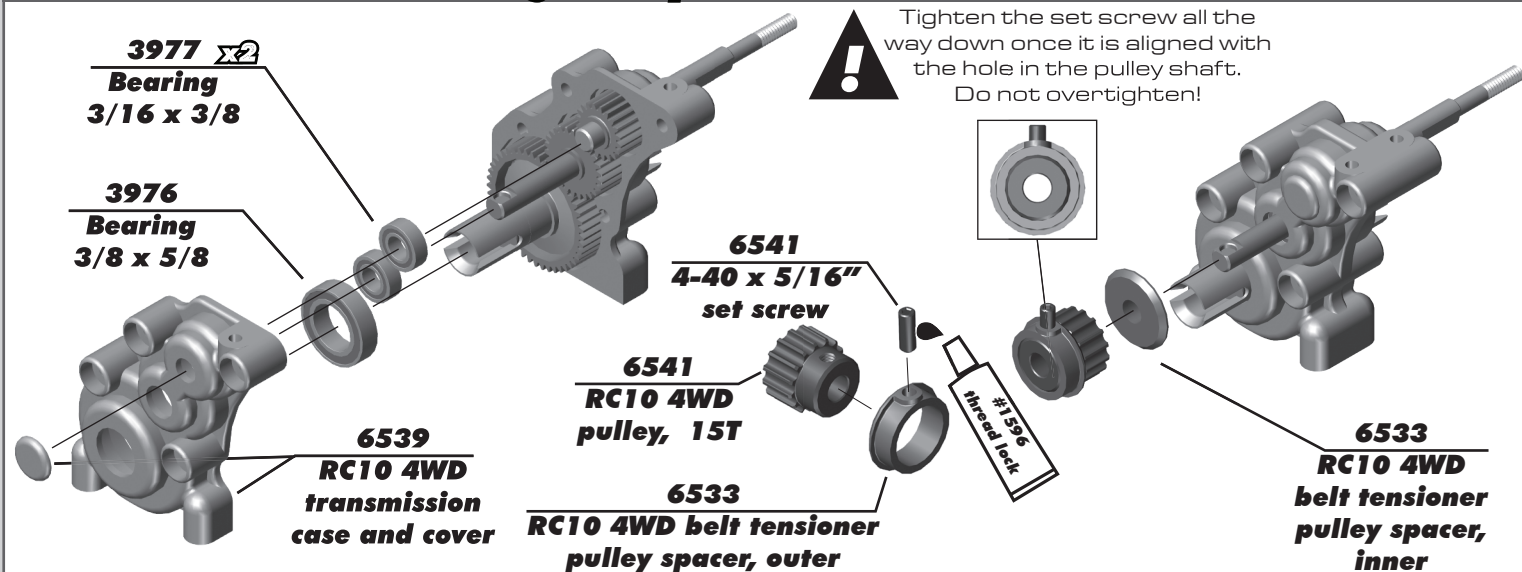
:: Front Transmission Build - Bag B - Step 2



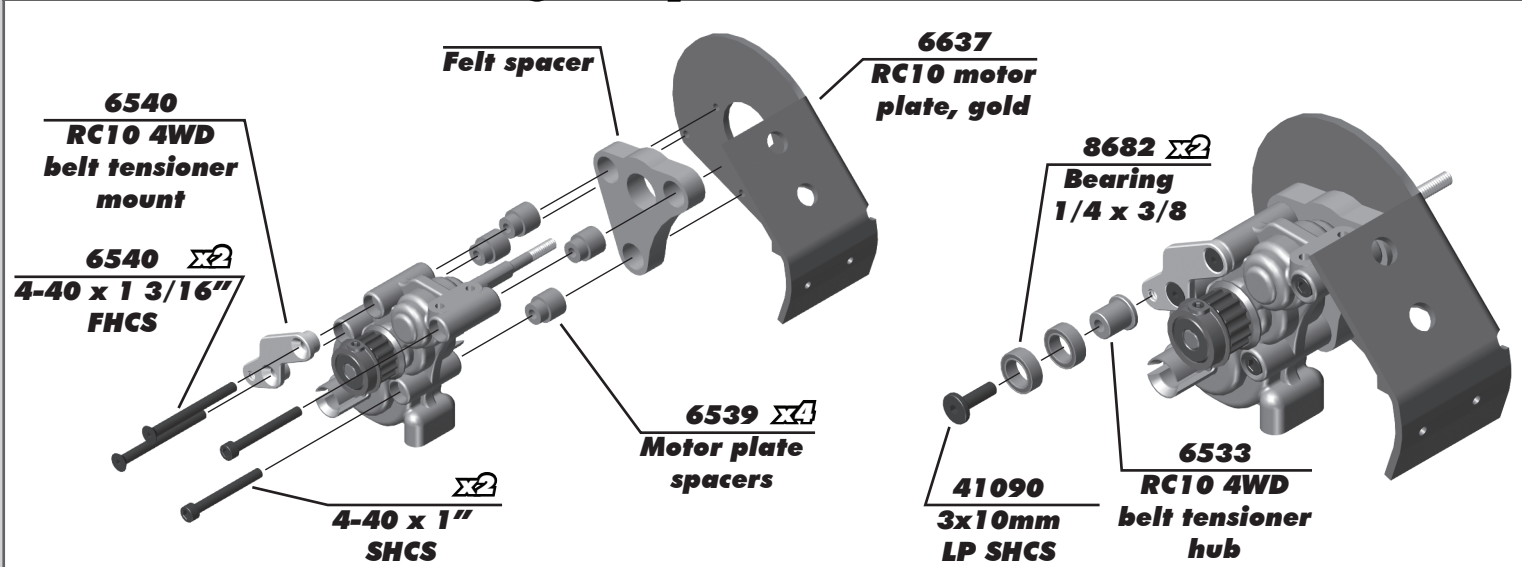
:: Rear Transmission Build - Bag B - Step 1



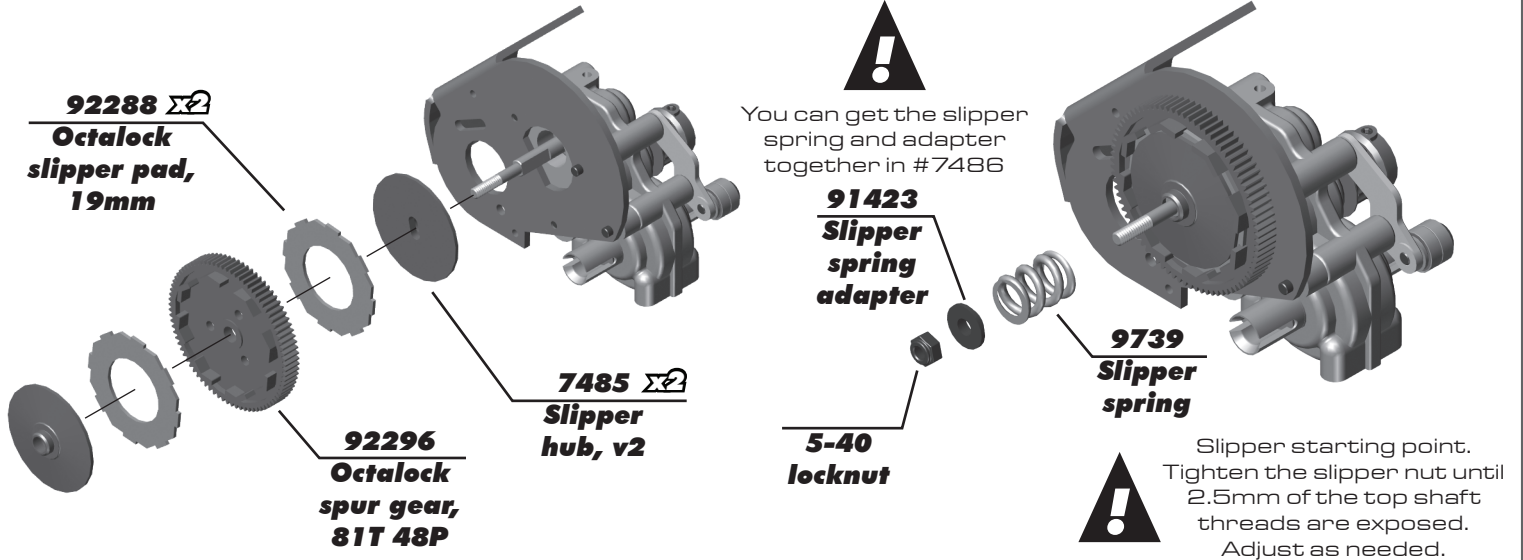
:: Rear Transmission Build - Bag B - Step 2



:: Rear Transmission Build - Bag B - Step 3



:: Rear Transmission Build - Bag B - Step 4



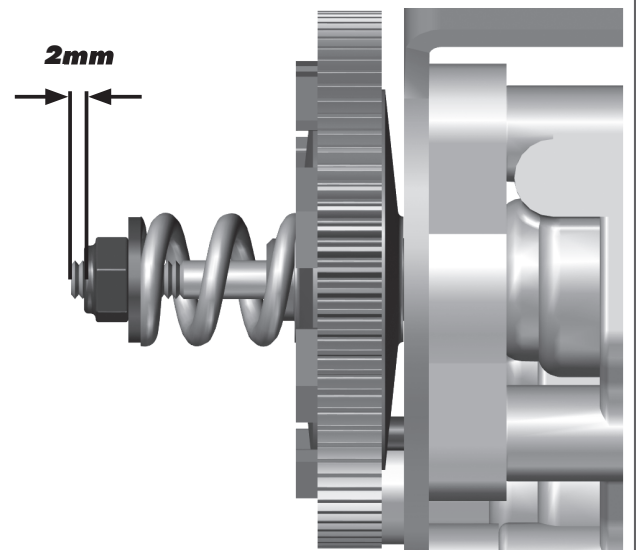
:: Rear Transmission Build - Bag B - Step 5

Slipper Clutch:
On high bite tracks:

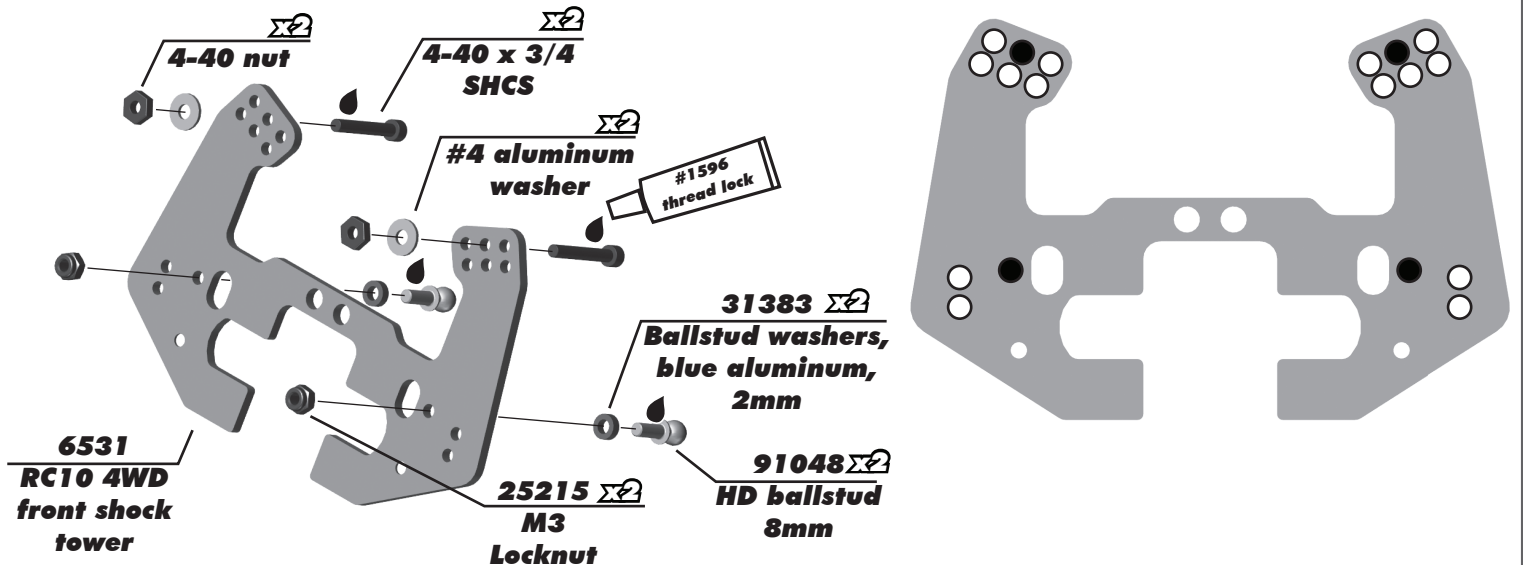
The slipper clutch setting is very important on higher bite tracks.

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.

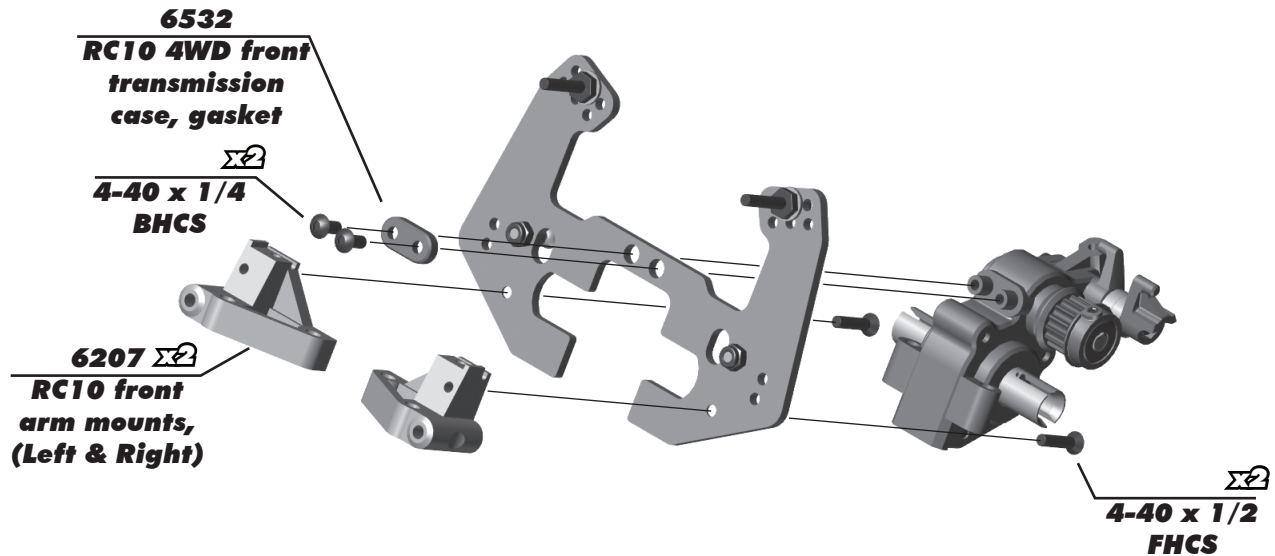
Caution: It is also recommended to set your esc brakes accordingly, too much brake can cause issues with the belt and slipper system.



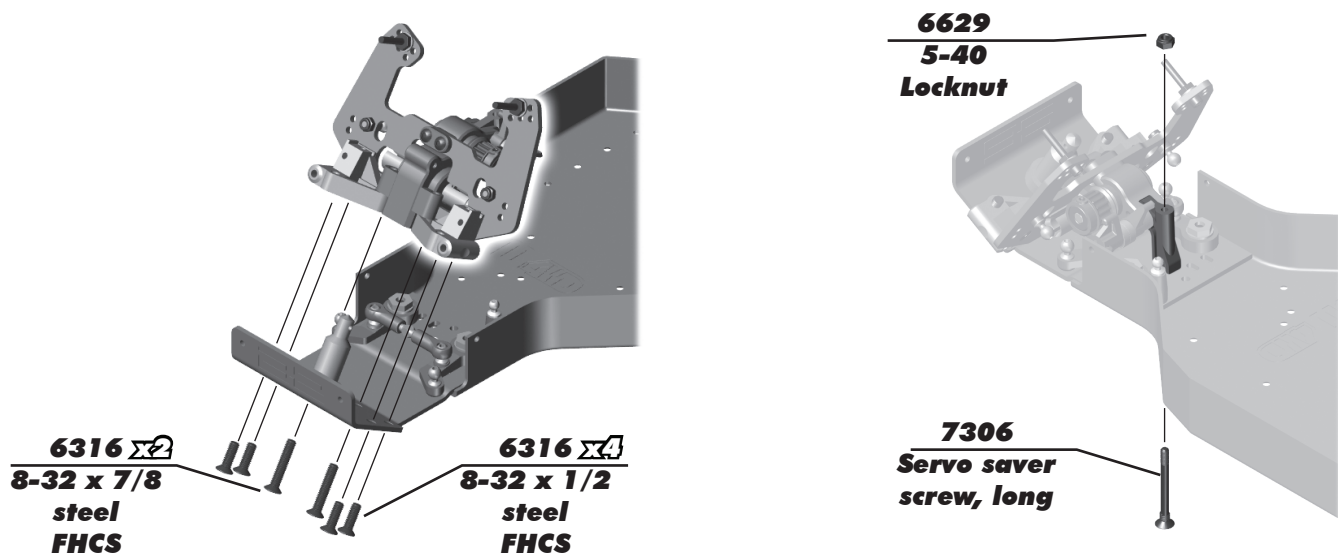
:: Front Suspension Build - Bag C - Step 1



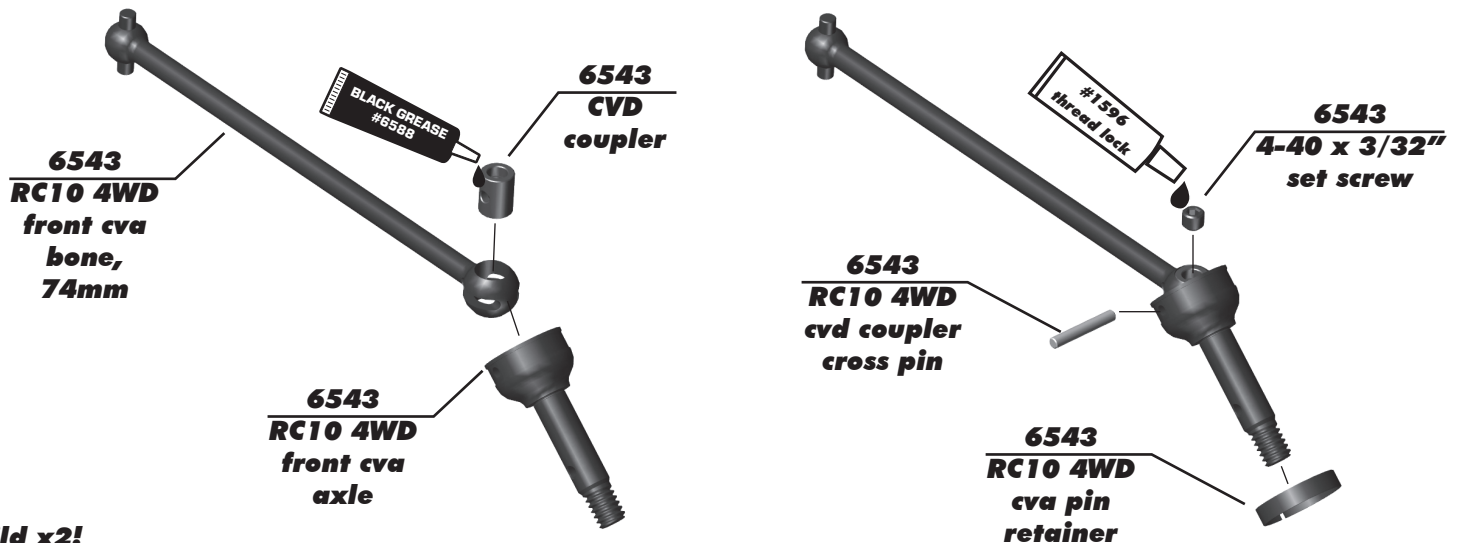
:: Front Suspension Build - Bag C - Step 2



:: Front Suspension Build - Bag C - Step 3

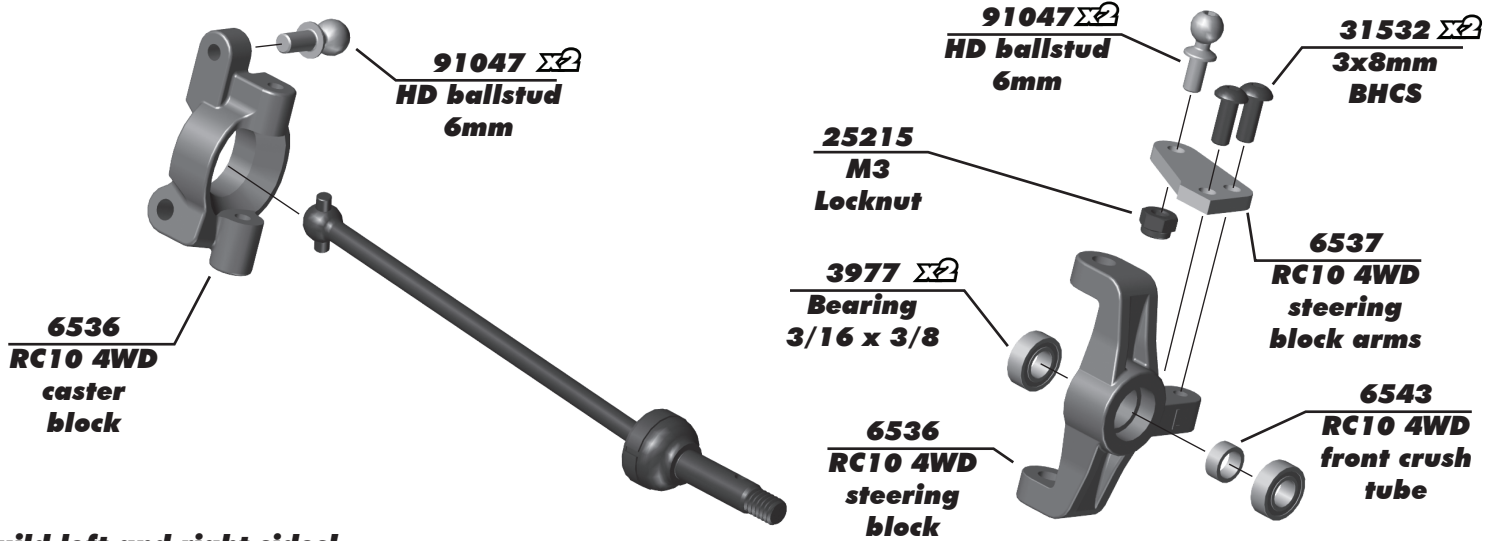


:: Front Suspension Build - Bag C - Step 4



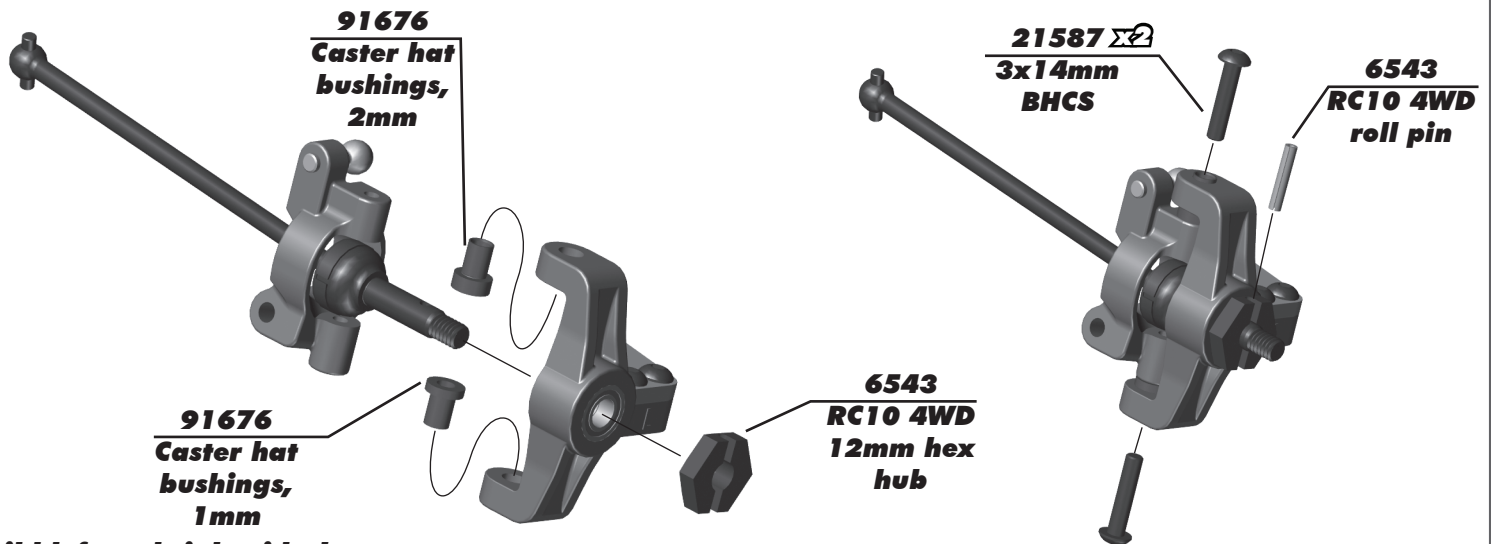
Build x2!

:: Front Suspension Build - Bag C - Step 5



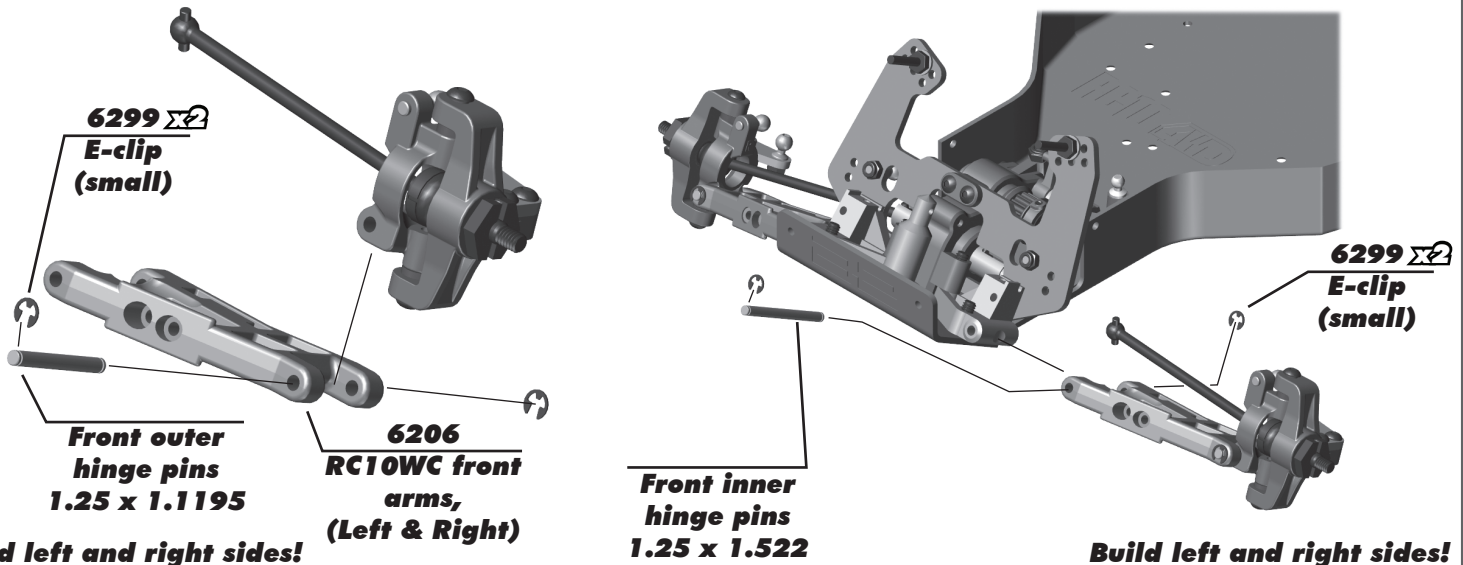
Build left and right sides!

:: Front Suspension Build - Bag C - Step 6



Build left and right sides!

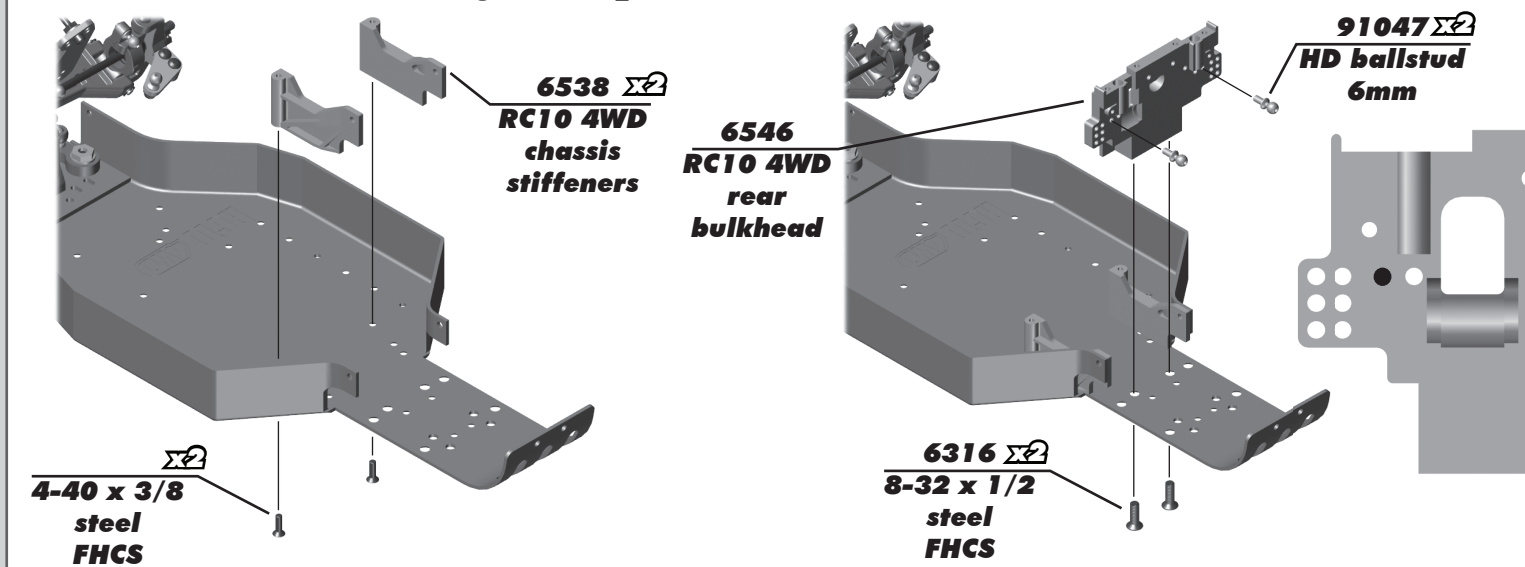
:: Front Suspension Build - Bag C - Step 7



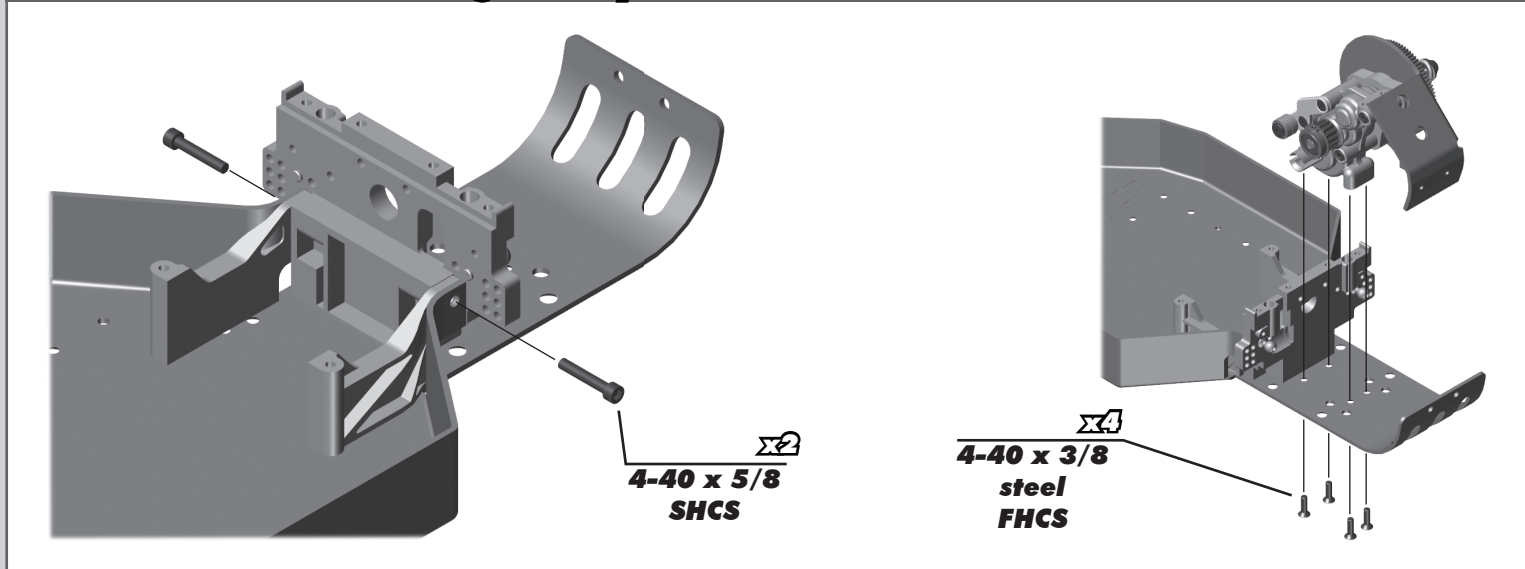
Build left and right sides!

Build left and right sides!

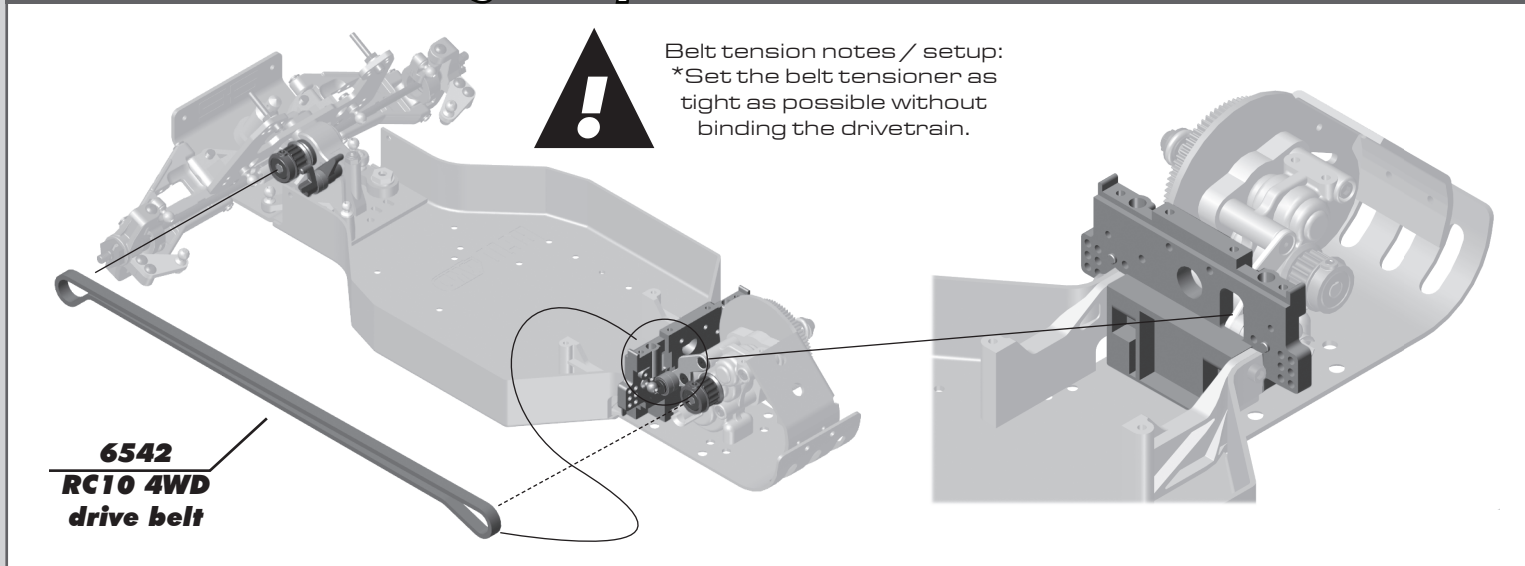
:: Rear Bulkhead Build - Bag D - Step 1



:: Rear Bulkhead Build - Bag D - Step 2



:: Rear Bulkhead Build - Bag D - Step 3



:: Rear Bulkhead Build - Bag D - Step 4

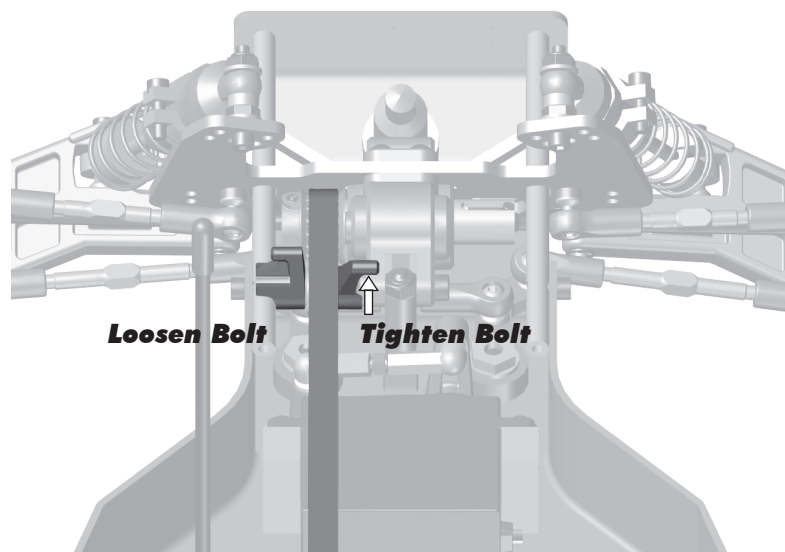


Belt Tensioner:

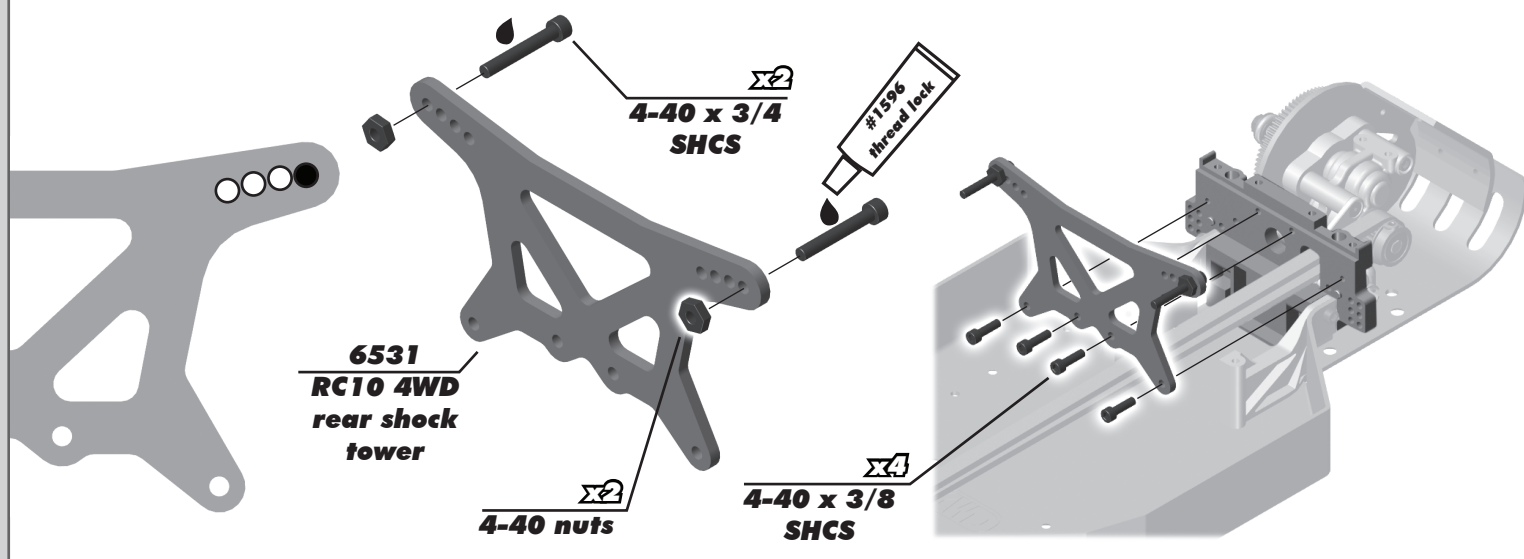
The belt tension is adjustable. The "inner" lever is the adjustment Lever. To tighten the belt, loosen the main bolt on the tension system and rotate the adjustment lever towards the front of the vehicle.

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.

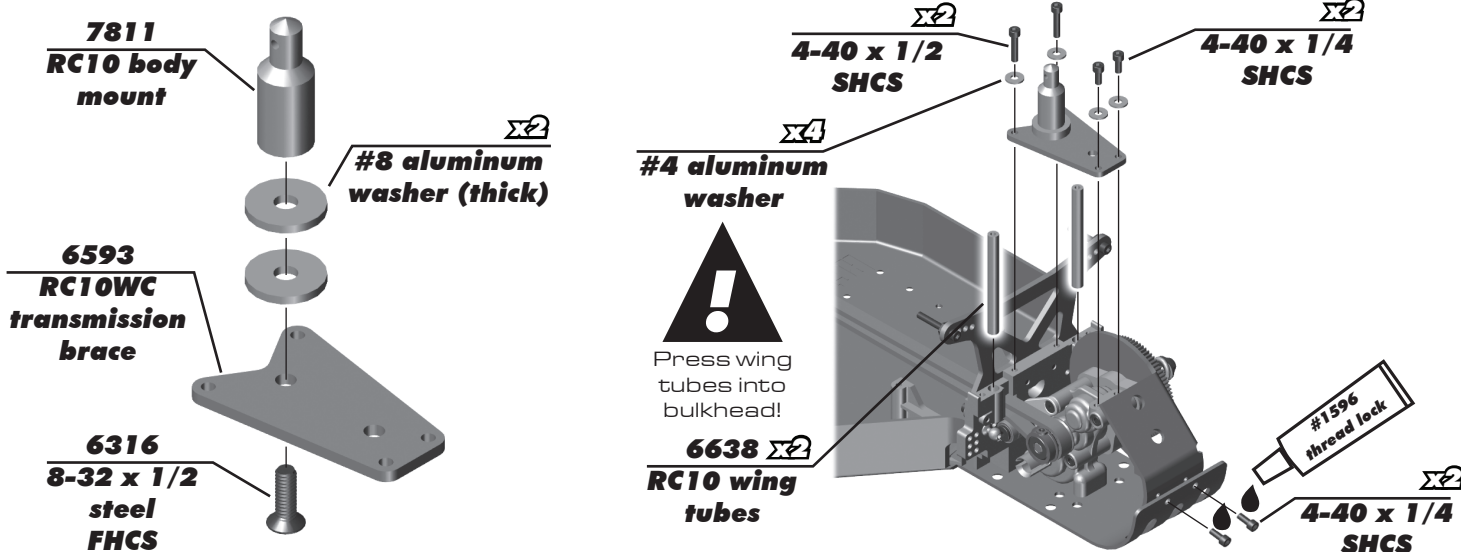
The outer lever is a guide for the belt. For a new car / belt, it is recommended to start around 12 O Clock on the adjustment lever. (Straight up and Down)



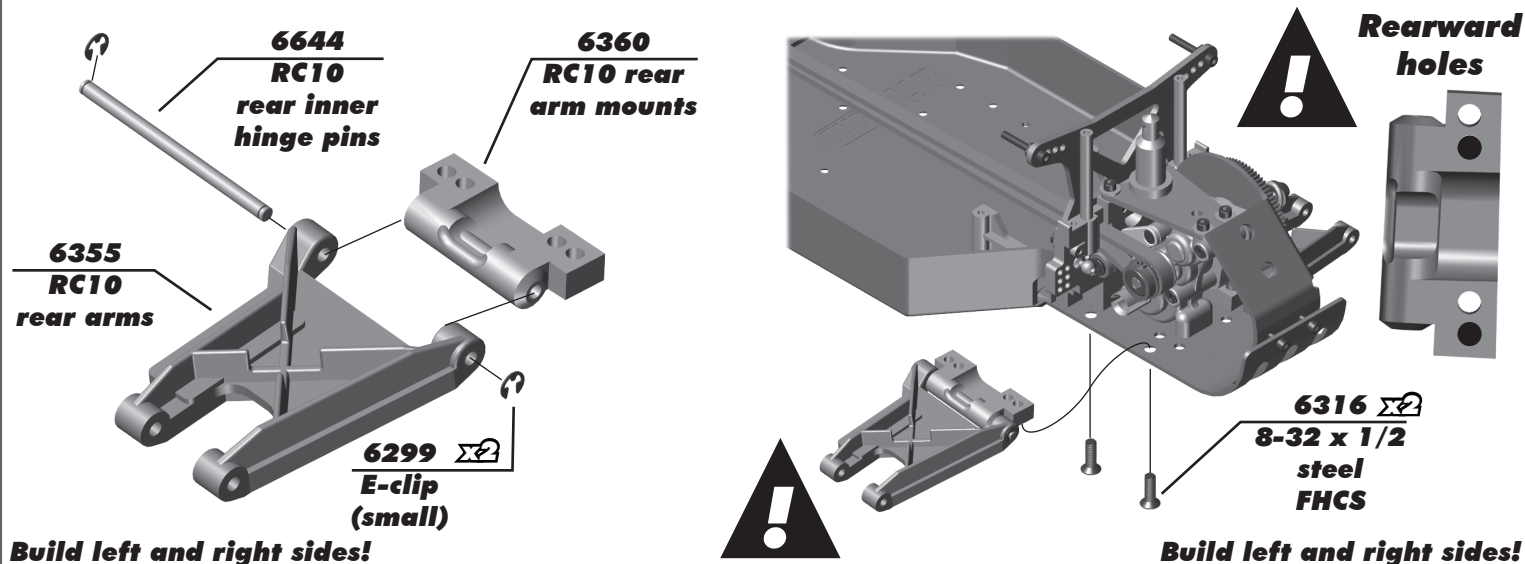
:: Rear Bulkhead Build - Bag D - Step 5



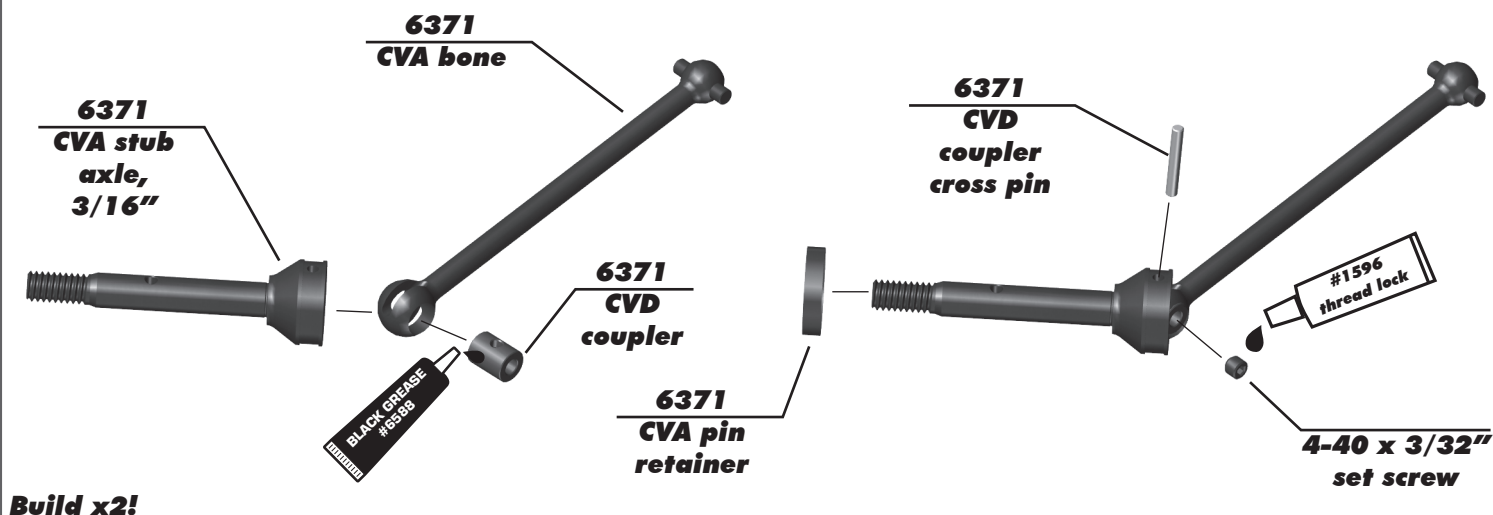
:: Rear Bulkhead Build - Bag D - Step 6



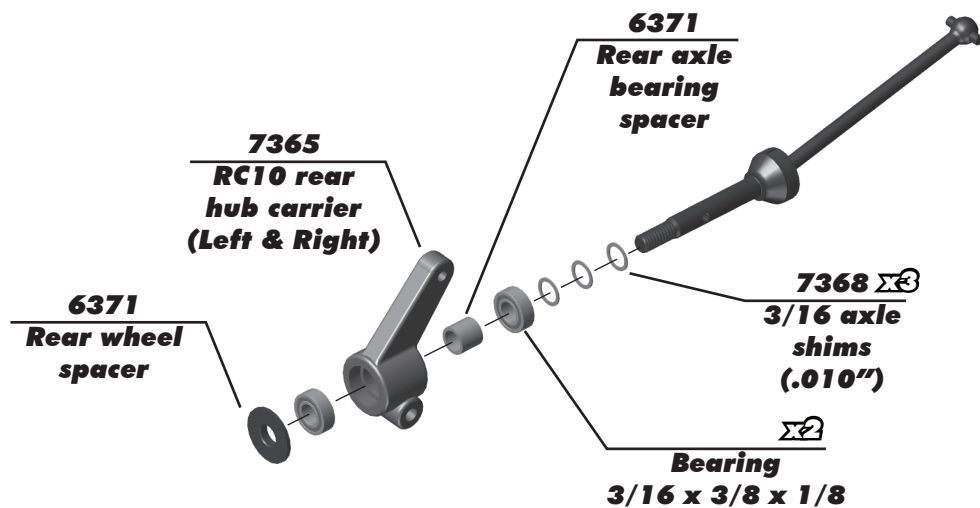
:: Rear Suspension Build - Bag E - Step 1



:: Rear Suspension Build - Bag E - Step 2

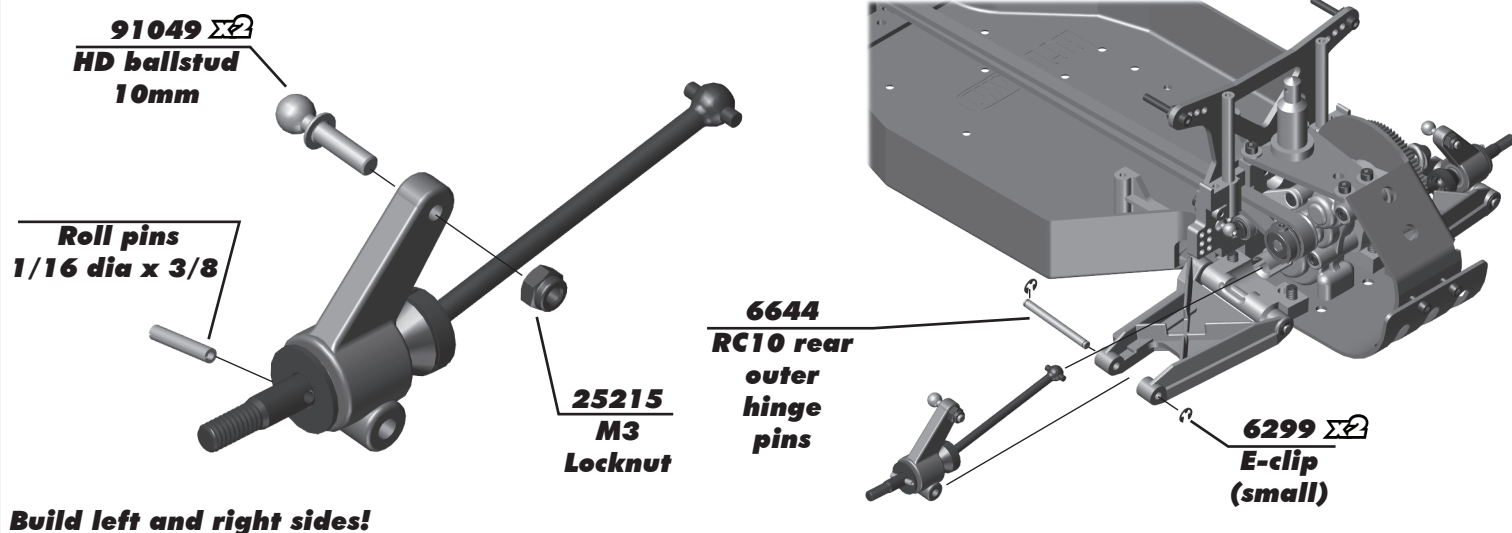


:: Rear Suspension Build - Bag E - Step 3

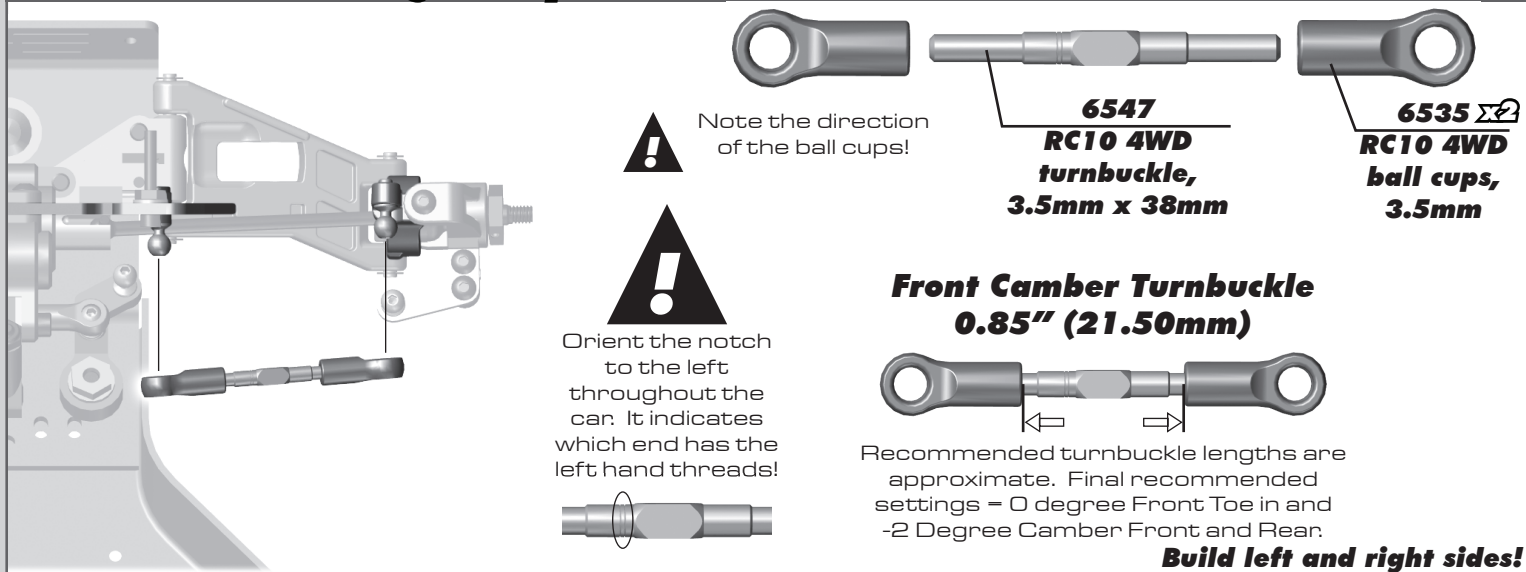


Build left and right sides!

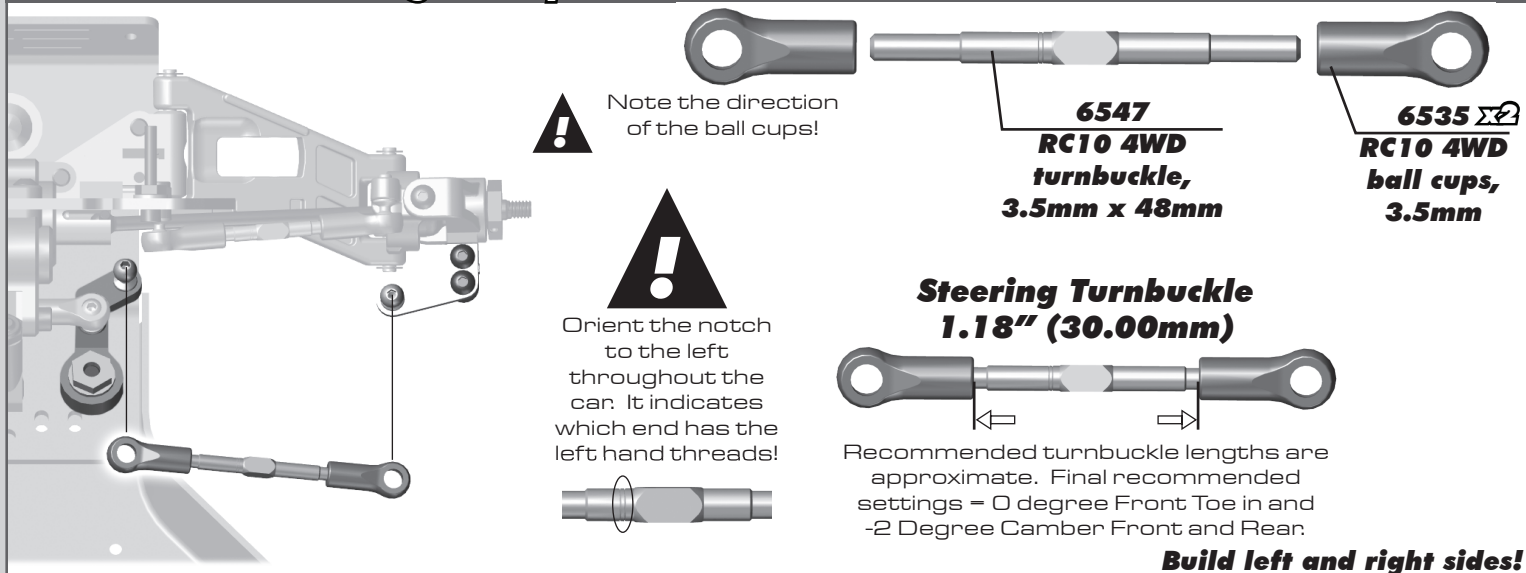
:: Rear Suspension Build - Bag E - Step 4



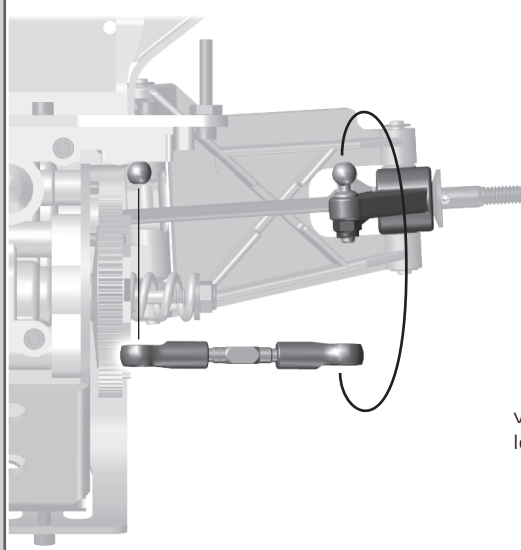
:: Turnbuckle Build - Bag F - Step 1



:: Turnbuckle Build - Bag F - Step 2



:: Turnbuckle Build - Bag F - Step 3



Note the direction of the ball cups!



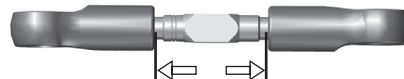
Orient the notch to the left throughout the car. It indicates which end has the left hand threads!



6547
RC10 4WD
turnbuckle,
3.5mm x 33mm

6535
RC10 4WD
ball cups,
3.5mm

Rear Camber Turnbuckle 0.59" (15mm)



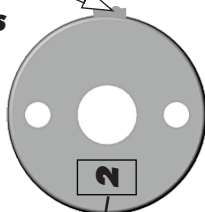
Recommended turnbuckle lengths are approximate. Final recommended settings = 0 degree Front Toe in and -2 Degree Camber Front and Rear.

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)

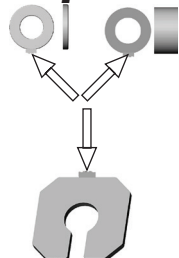


Build two front and two rear!

:: Shocks Build - Bag G - Step 2

5407
Red o-ring

Remove spurs



6440
RC10 shock
rebuild kit

6440
Shock
assembly
tool



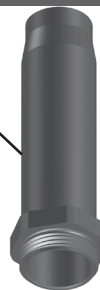
Front Shock

6437
FT Hard
Anodized
shock body,
front (0.71)



Rear Shock

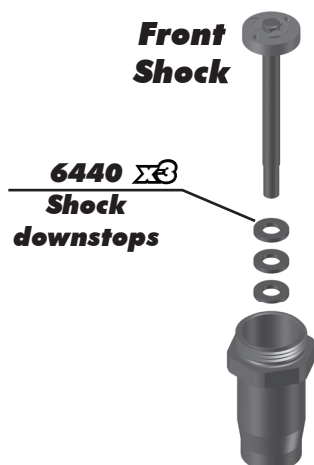
6435
FT Hard
Anodized
shock body,
rear (1.32)



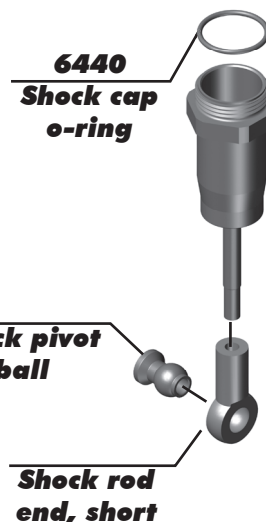
Place on table and push down hard until clamp snaps into place

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

:: Shocks Build - Bag G - Step 3



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

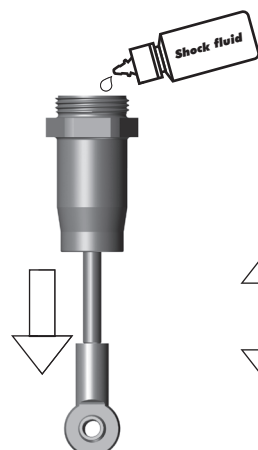


Build two front and two rear!

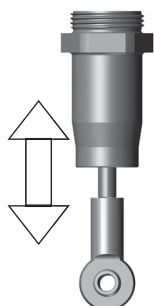
:: Shocks Build - Bag G - Step 4

Front shock fluid: 50wt

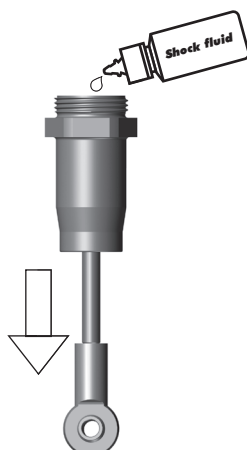
Rear shock fluid: 30wt



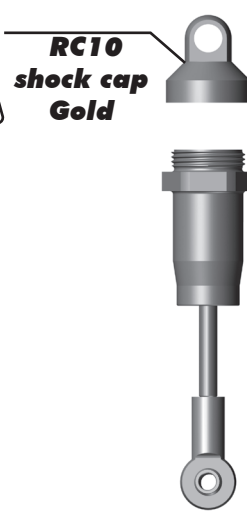
Step 1-3



Step 3-4



Step 5-6

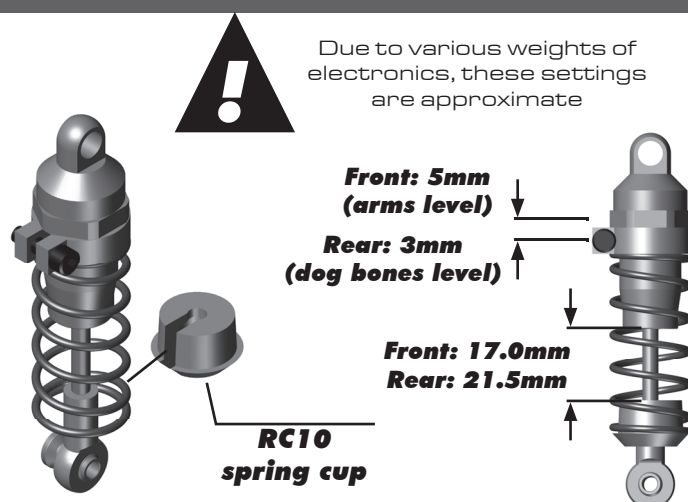
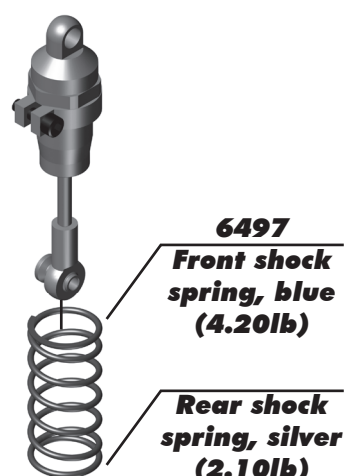
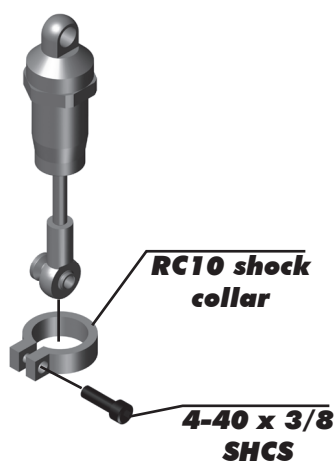


Step 7

* Shock Bleeding Steps:

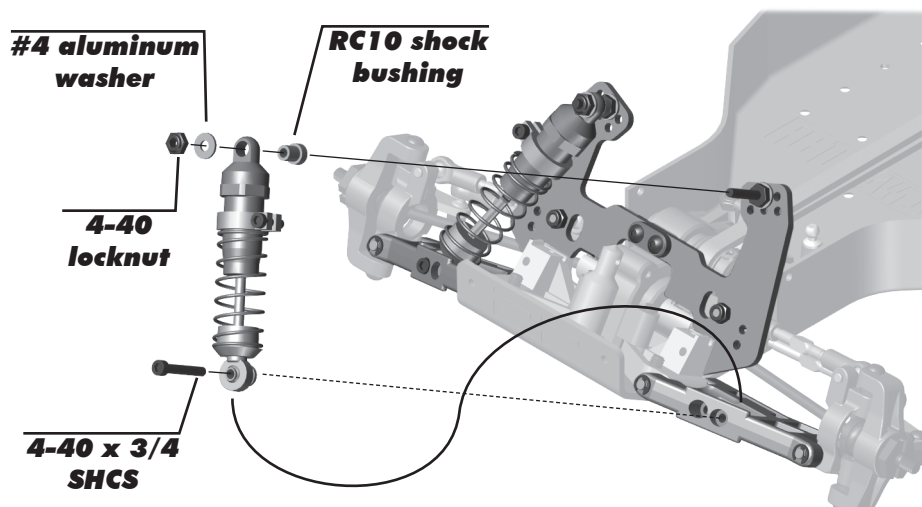
1. Pull shock shaft down.
2. Fill shock body 3/4 full with silicone fluid.
3. Slowly move the shock shaft up and down to remove air from under piston.
4. Wait for bubbles to come to surface.
5. Fill shock body to top with silicone fluid.
6. Place several drops of oil in the cap and on cap threads.
7. Install cap and tighten completely.
8. Slowly compress shaft all the way to the top. If there is pressure at the top of the stroke, there is too much oil. You must bleed it out.
9. Slowly pull shaft down.
10. Unscrew the cap 3/4 turn and tilt the shock at a slight angle.
11. Slowly compress the shaft to push out excess oil and air. You should see bubbles coming out from under the cap.
12. With the shaft compressed, tighten the cap and re-check for pressure at the top of the stroke. If there is still pressure, repeat steps 9 thru 11.

:: Shocks Build - Bag G - Step 5



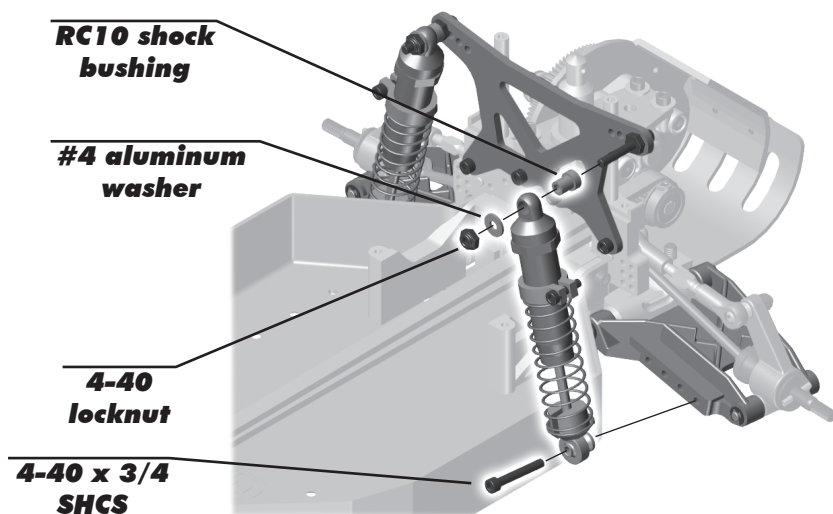
Build two front and two rear!

:: Shocks Build - Bag G - Step 6



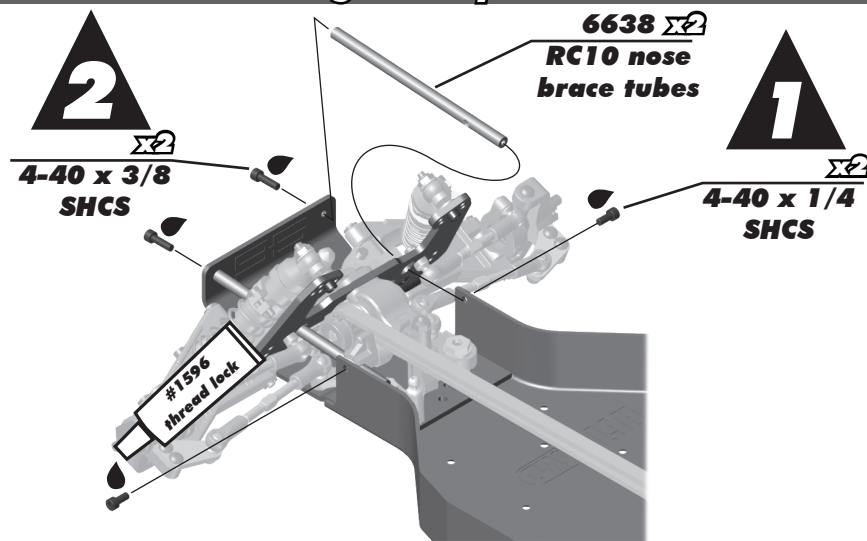
Build left and right sides!

:: Shocks Build - Bag G - Step 7

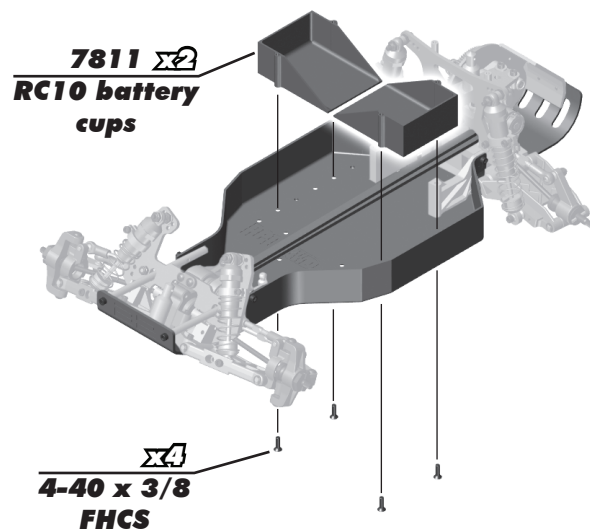


Build left and right sides!

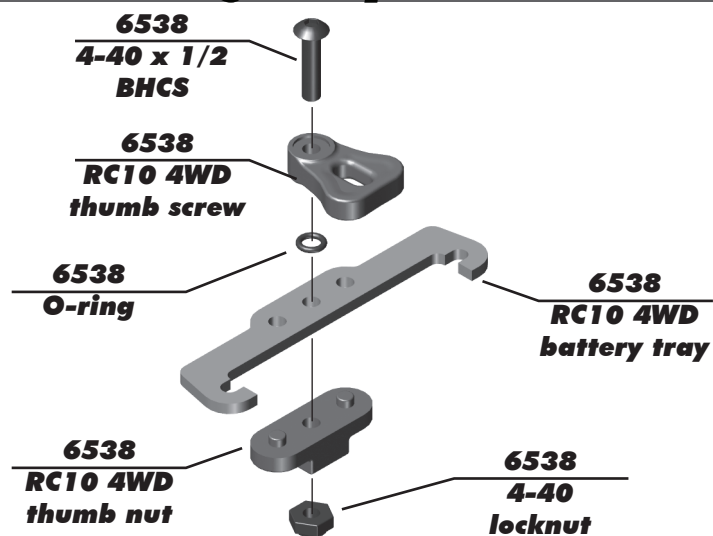
:: Chassis Build - Bag H - Step 1



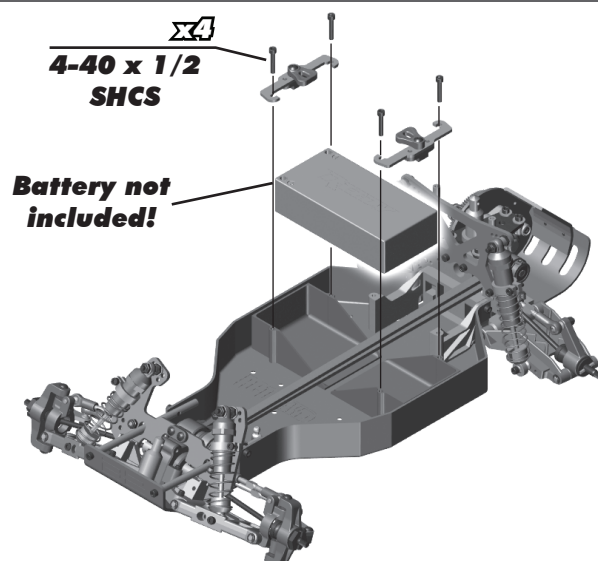
Build left and right sides!



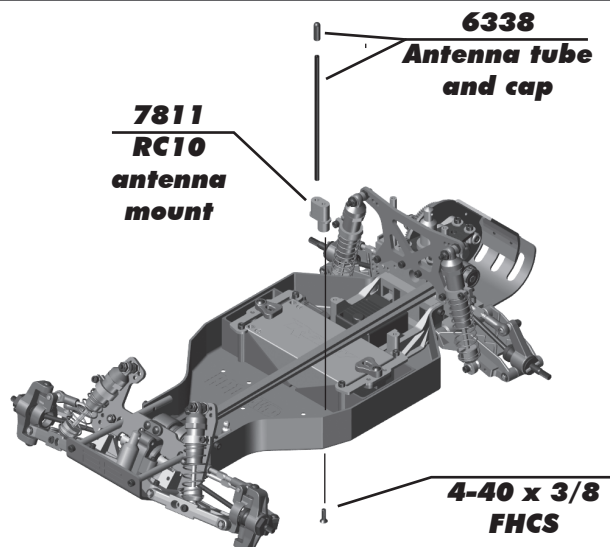
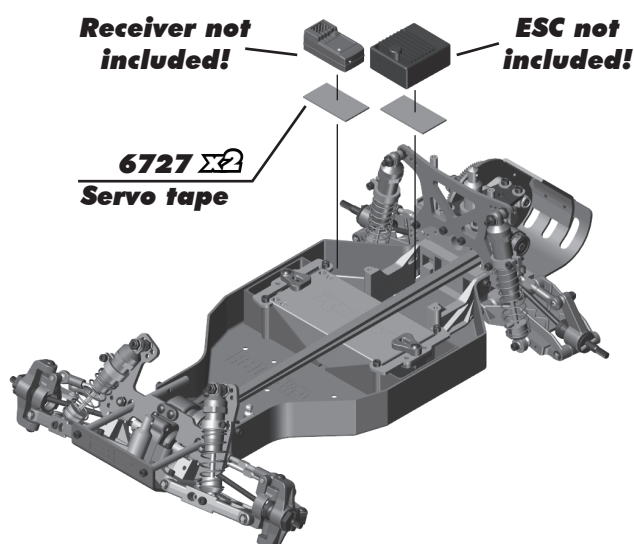
:: Chassis Build - Bag H - Step 2



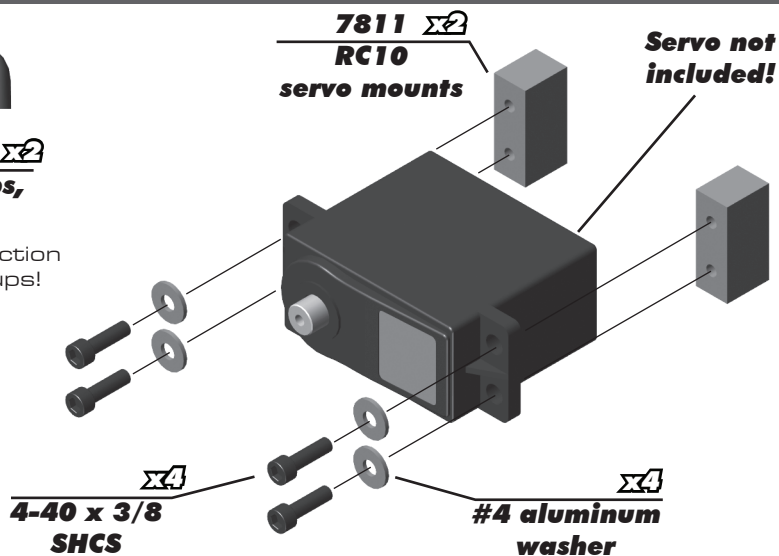
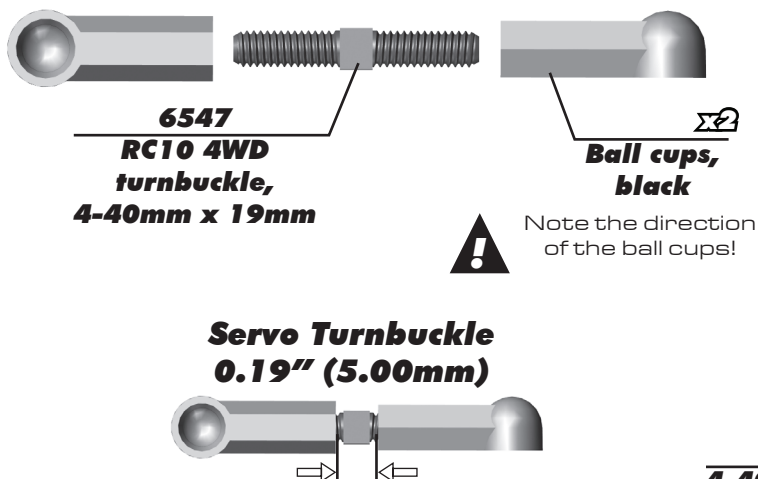
Build x2!



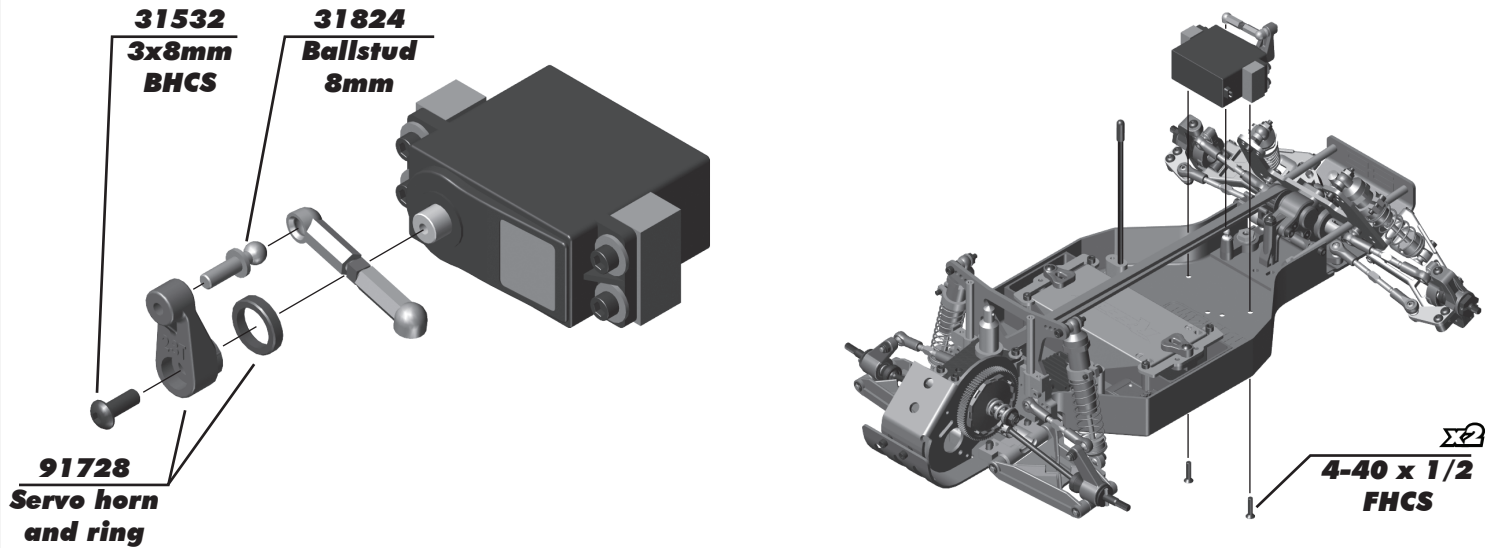
:: Electronics Build - Bag I - Step 1



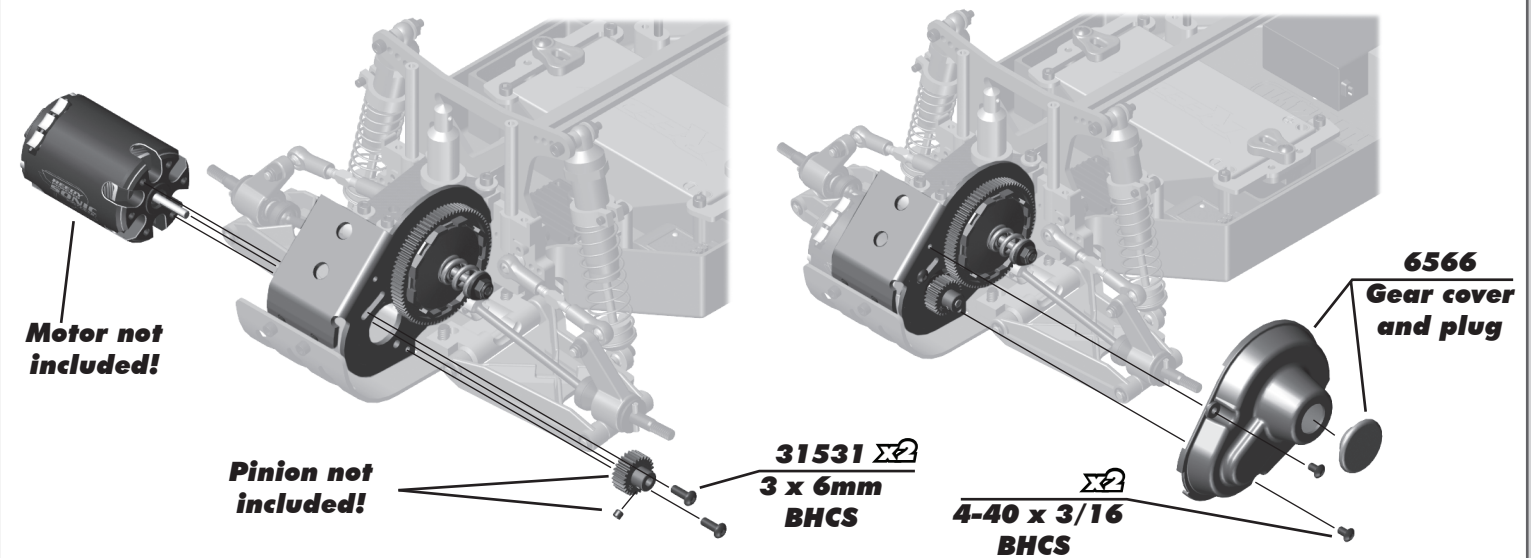
:: Electronics Build - Bag I - Step 2



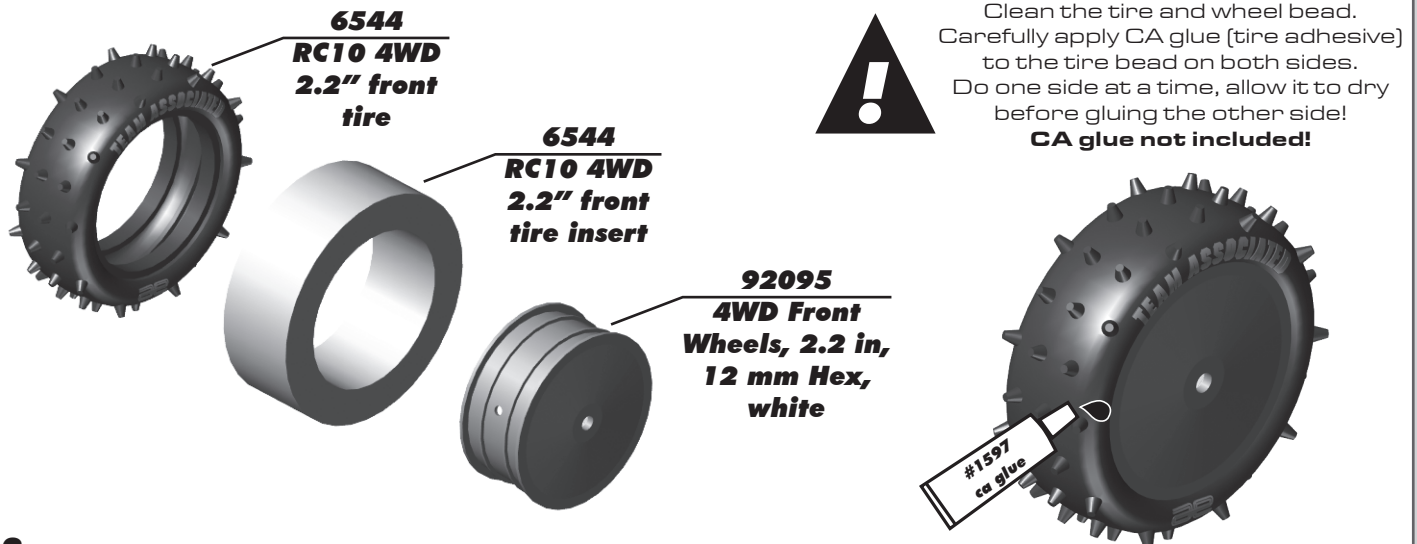
:: Electronics Build - Bag I - Step 3



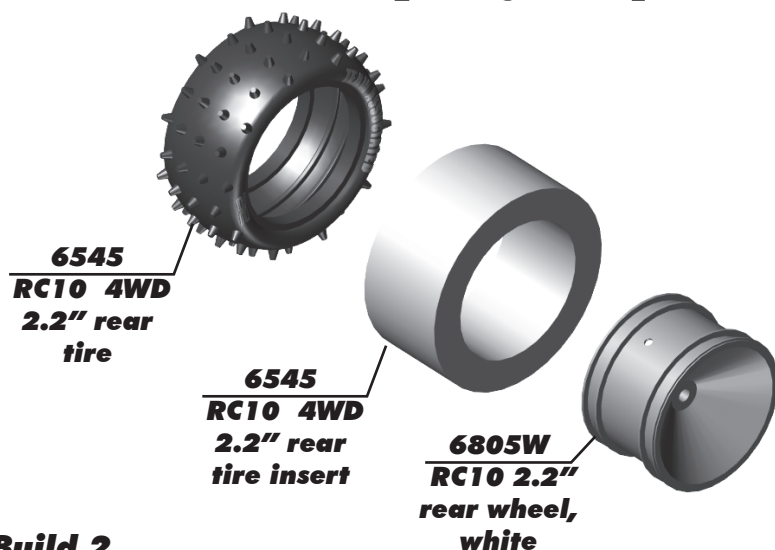
:: Electronics Build - Bag I - Step 4



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



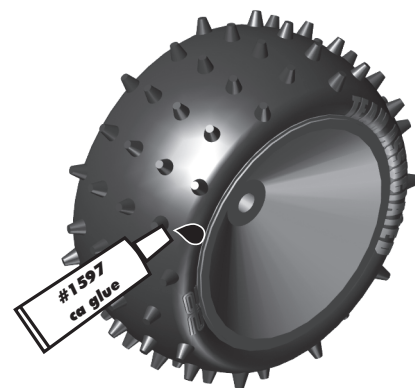
:: Wheels / Tires and Body - Bag J - Step 2



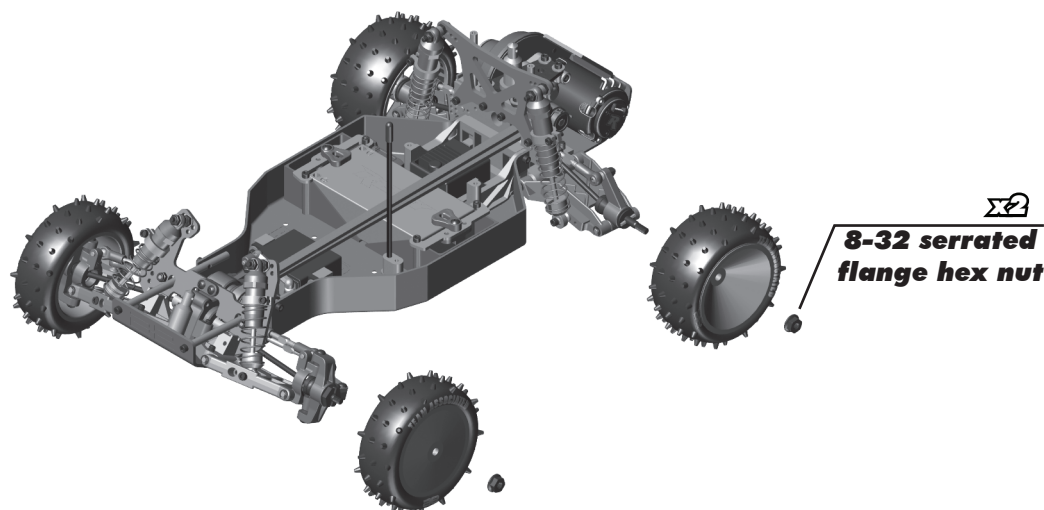
Build 2



Clean the tire and wheel bead.
Carefully apply CA glue (tire adhesive)
to the tire bead on both sides.
Do one side at a time, allow it to dry
before gluing the other side!
CA glue not included!



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



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

Painting Tips:

Your RC10 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).

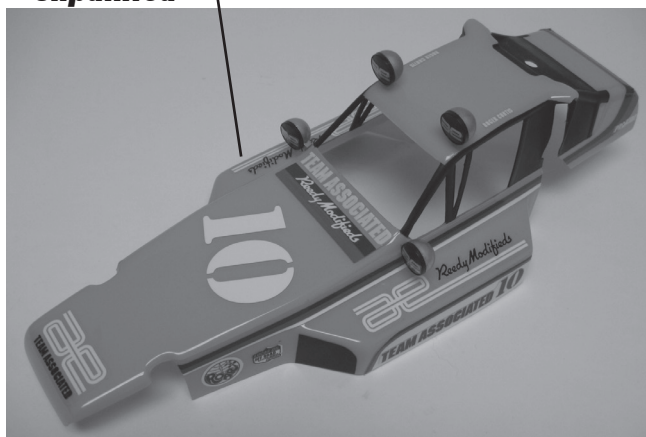
Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (either rattle can or airbrush R/C specific paint) the paint to the inside of the body (preferably dark colors first, lighter colors last).

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!

6159
RC10 Protech
Buggy body,
unpainted



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

Light Buckets:

Press the light bucket halves together.

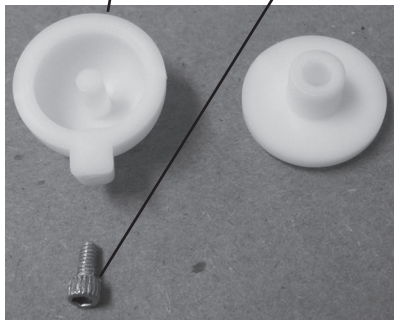
Install light buckets with 2-56 x 3/16 SHCS in areas shown.

6639

**Light
buckets**

**2-56 x 3/16
SHCS**

Σ4



Mount the light buckets in any location of your choosing, or not at all.



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

6332

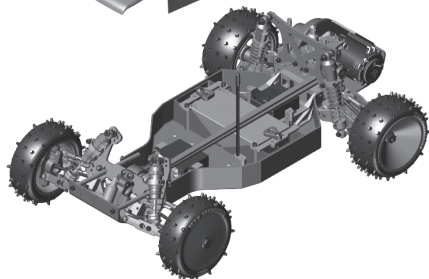
**Body
clip**

6332

**Body
clip**

6159

**RC10
Protech body,
clear**

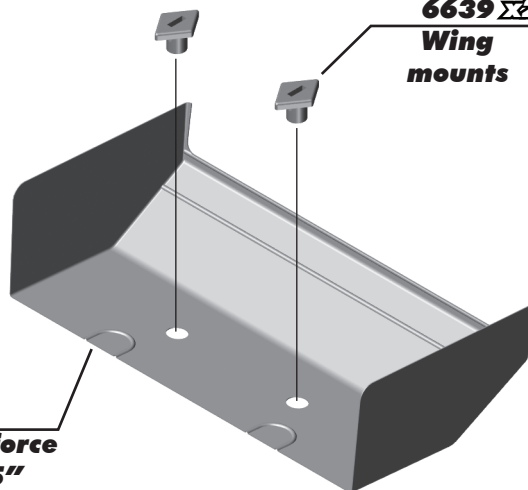


6639 Σ2

**Wing
mounts**

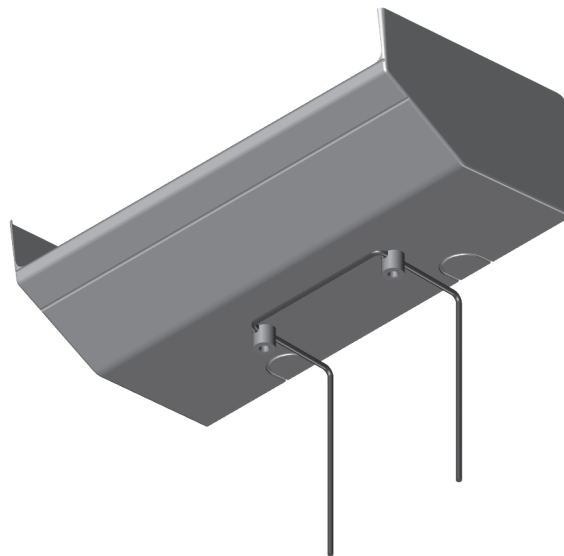
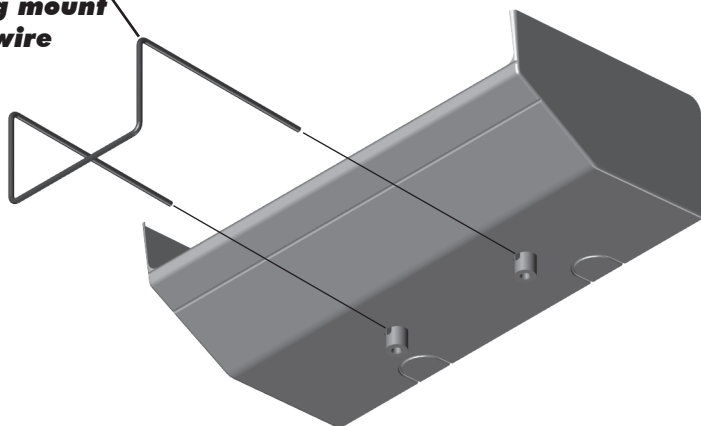
6182

**High downforce
wing, 5.5"**

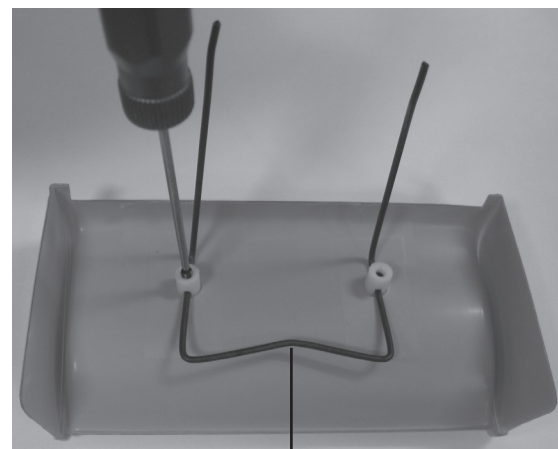
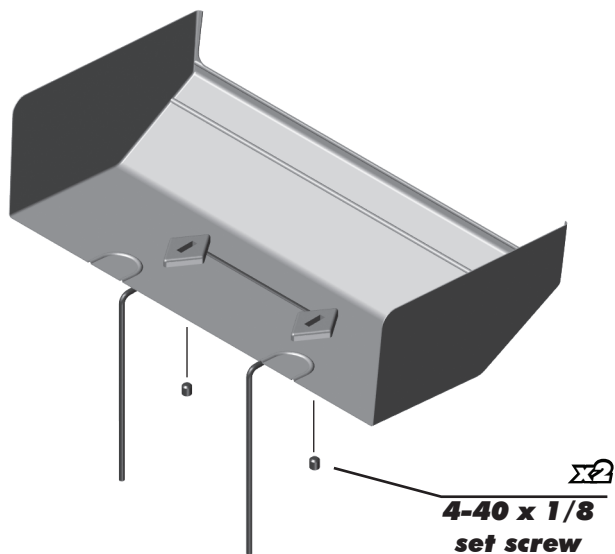


:: Wheels / Tires and Body - Bag J - Step 9

**Wing mount
wire**



:: Wheels / Tires and Body - Bag J - Step 10

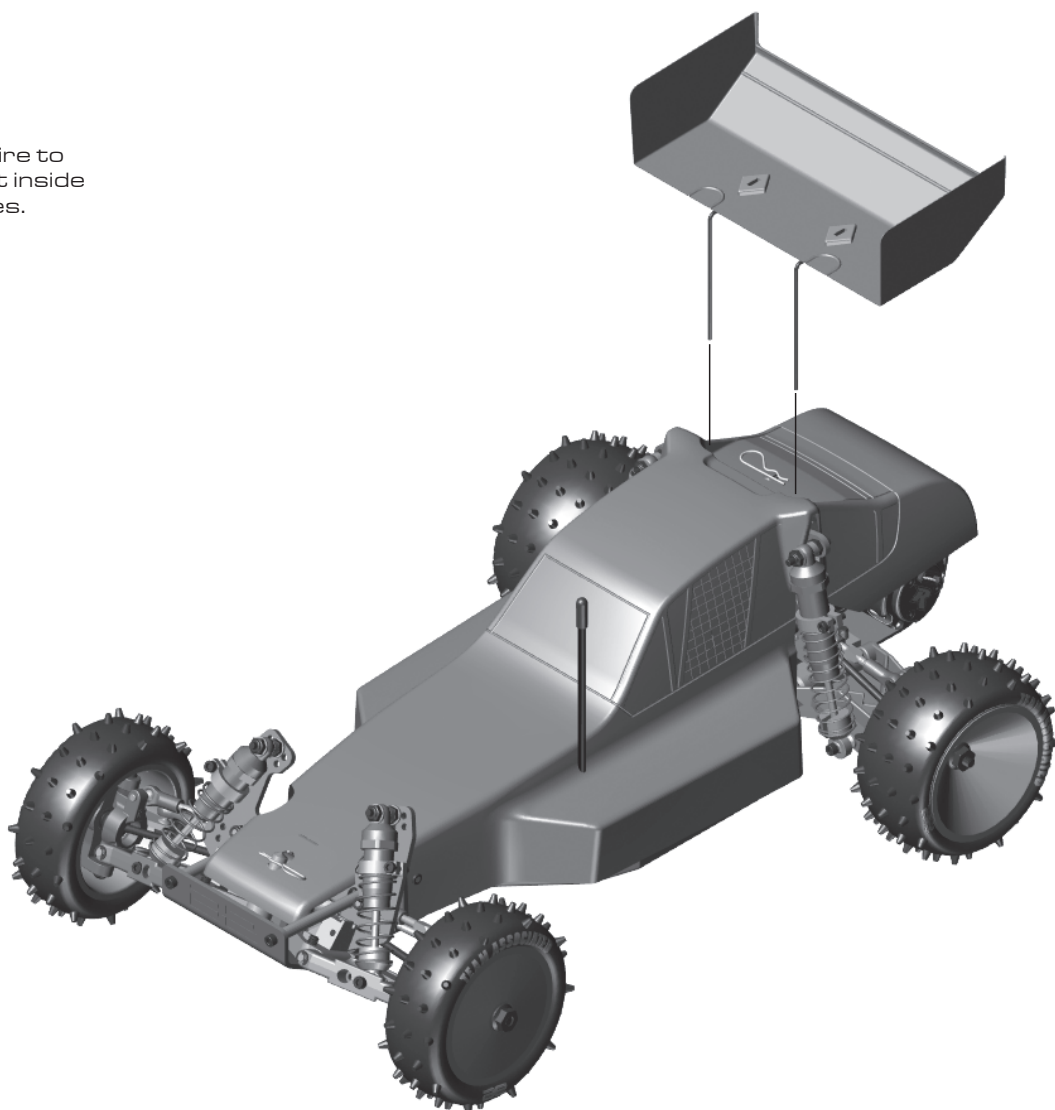


TIP: Bending the wire as shown can help ensure the wing buttons are parallel.

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



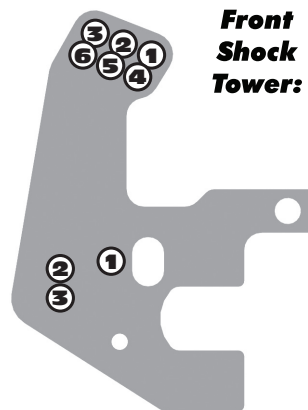
TIP: Bend wire to create tight fit inside wing tubes.



TEAM ASSOCIATED RC10 4WD SETUP SHEET

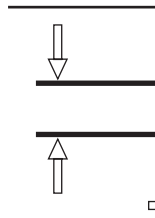
Driver: _____ Date: _____
Track: _____ Event: _____
Conditions: Indoor ☐ Outdoor ☐ Temp. _____ Rev.1

Shock Towers

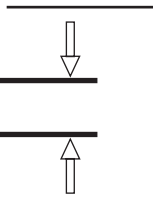


Ride Height / Wheelbase

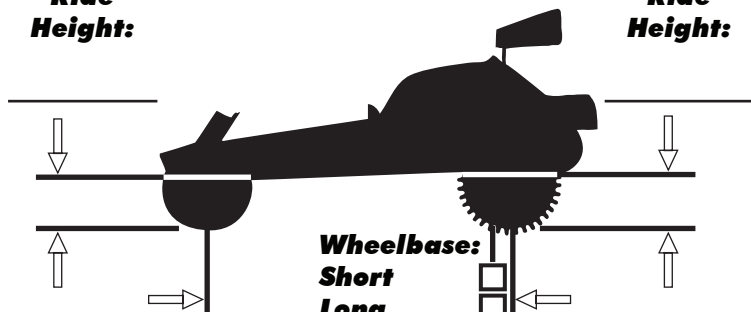
Front Ride Height:



Rear Ride Height:



Wheelbase:
Short
Long



Front Suspension

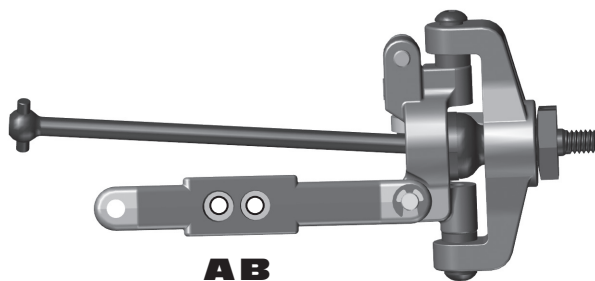
Camber: _____

Toe: _____

Caster: _____

15° ☐

30° ☐



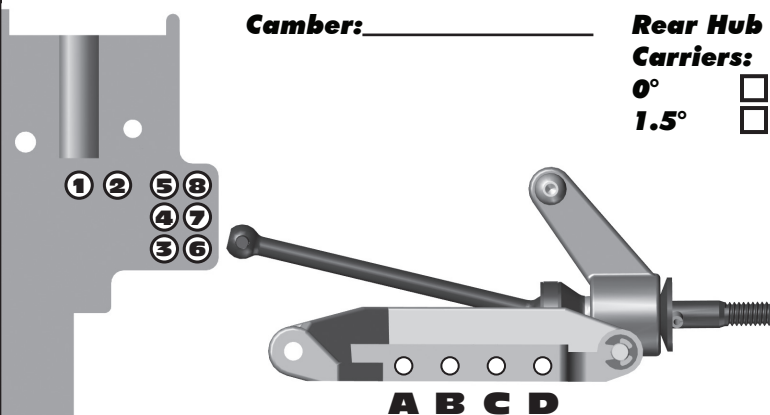
Rear Suspension

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 ☐

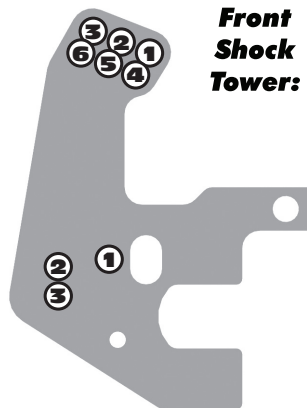
Damp ☐

Dry ☐

TEAM ASSOCIATED RC10 4WD SETUP SHEET

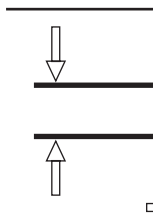
Driver: _____ Date: _____
 Track: _____ Event: _____
 Conditions: Indoor ☐ Outdoor ☐ Temp. _____ Rev.1

Shock Towers

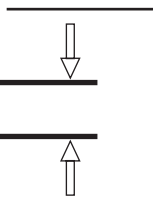


Ride Height / Wheelbase

Front Ride Height:



Rear Ride Height:



Wheelbase:
Short
Long



Front Suspension

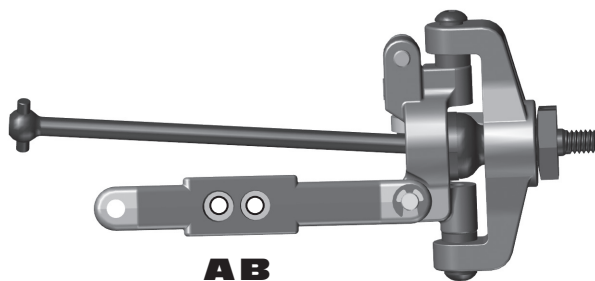
Camber: _____

Toe: _____

Caster:

15° ☐

30° ☐



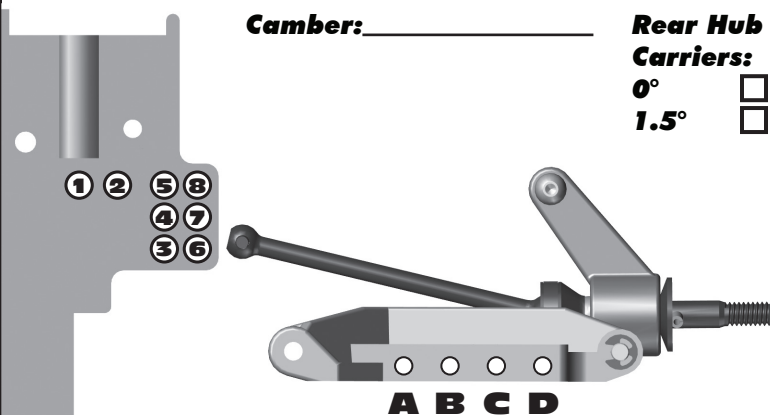
Rear Suspension

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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