

:: 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 Kinwald Edition Kit:

- Updated Worlds Stealth Transmission Case
- Updated Worlds Idler Gear and Idler Shaft
- Replica Kinwald Carbon Fiber Front Shock Tower
- Replica Kinwald Iridium Glitter Rear Shock Tower
- Carbon Fiber Transmission Brace
- Worlds Kinwald Battery Brace
- Exclusive Mirage SS Body
- Exclusive Custom Kinwald Black Chassis, Nose Plate and Motor Plate
- CVA Rear Driveshafts
- Full Ball Bearings included
- Hard Anodized Shock Bodies
- Worlds accurate Black and Green Shock Springs
- V2 Slipper System included
- Adjustable Turnbuckles
- Exclusive Blue Anodized CNC Wing Buttons
- 5.5in High Downforce Wing
- Independent Suspension with durable Long Front Arms and refined geometry
- World's Car Bellcrank Steering
- Official Kinwald Worlds Decal Sheet included
- Kinwald White Nylon Shock Nuts included

:: Additional

Your new RC10 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
- Electronic Speed Control (ESC)
- Steering Servo
- 2S, 7.4V Lipo stick battery or 7.2V NiMH battery
- Peak detection battery charger
- Retaining Ring Pliers
- Polycarbonate specific paint
- Pinion gear, size to be determined by type and wind of motor you use
- R/C Electric Motor
- Servo Horn (AE #89007)
- 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)
- Tire Adhesive (AE #1597)
- Shock Pliers (AE #1681)
- Wire Cutters / Hobby Knife
- Body Scissors (AE #1737)
- Green Slime shock lube (AE #1105)
- Needle Nose Pliers
- Reamer / Hole Punch (AE #1499)
- Calipers or a Precision Ruler
- Soldering Iron

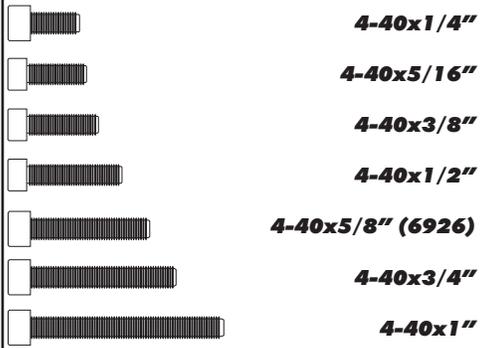
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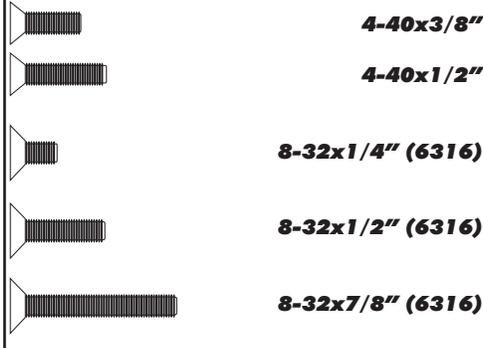
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

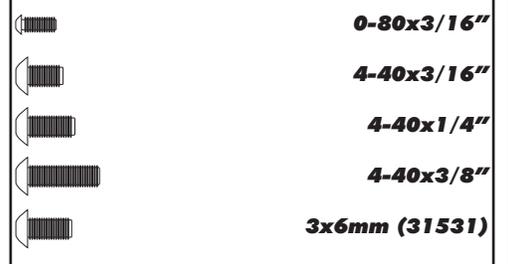
Cap Head (shcs)



Flat Head (fhcs)



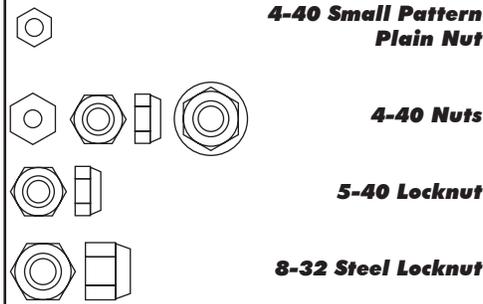
Button Head (bhcs)



Shims and Washers



Nuts (lock/plain)



Set Screws



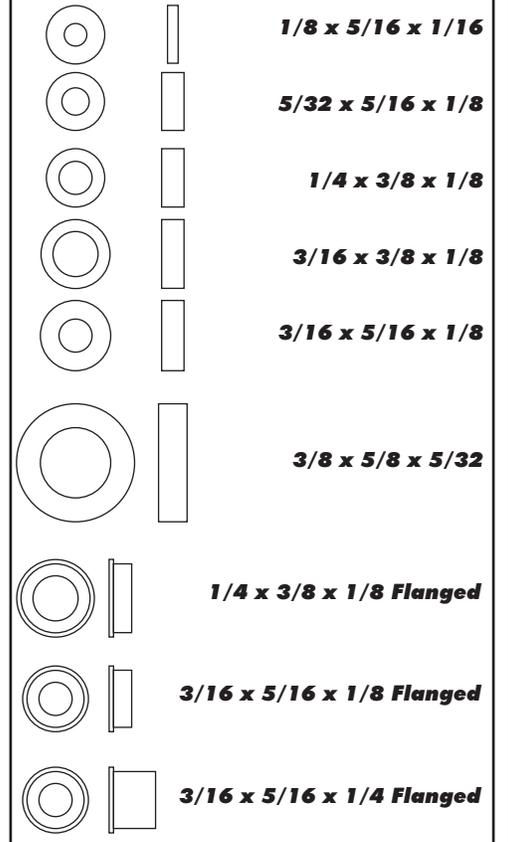
Diff Balls



Clips



Bearings



Notes:

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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.

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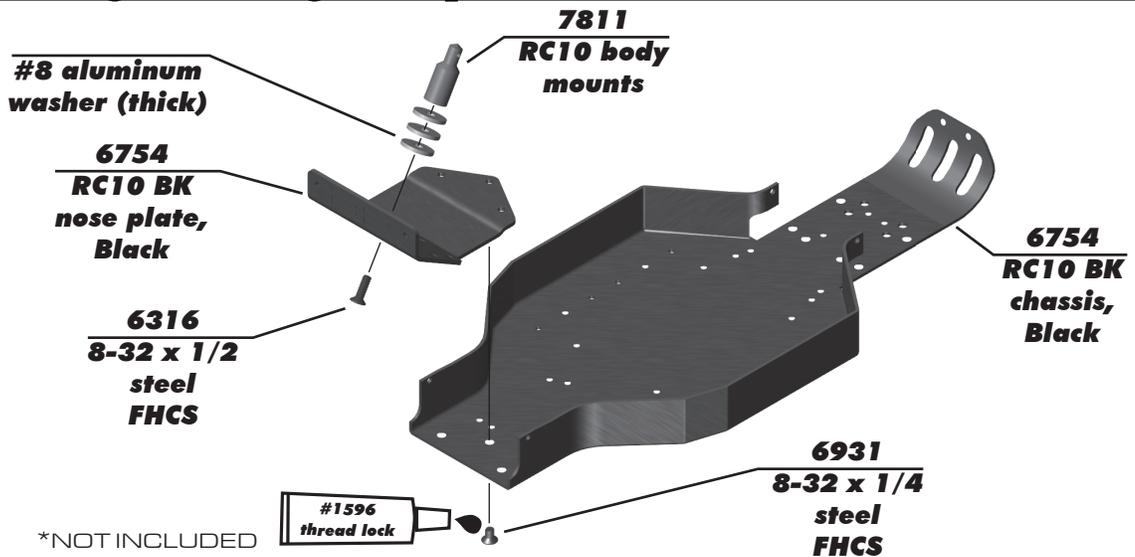


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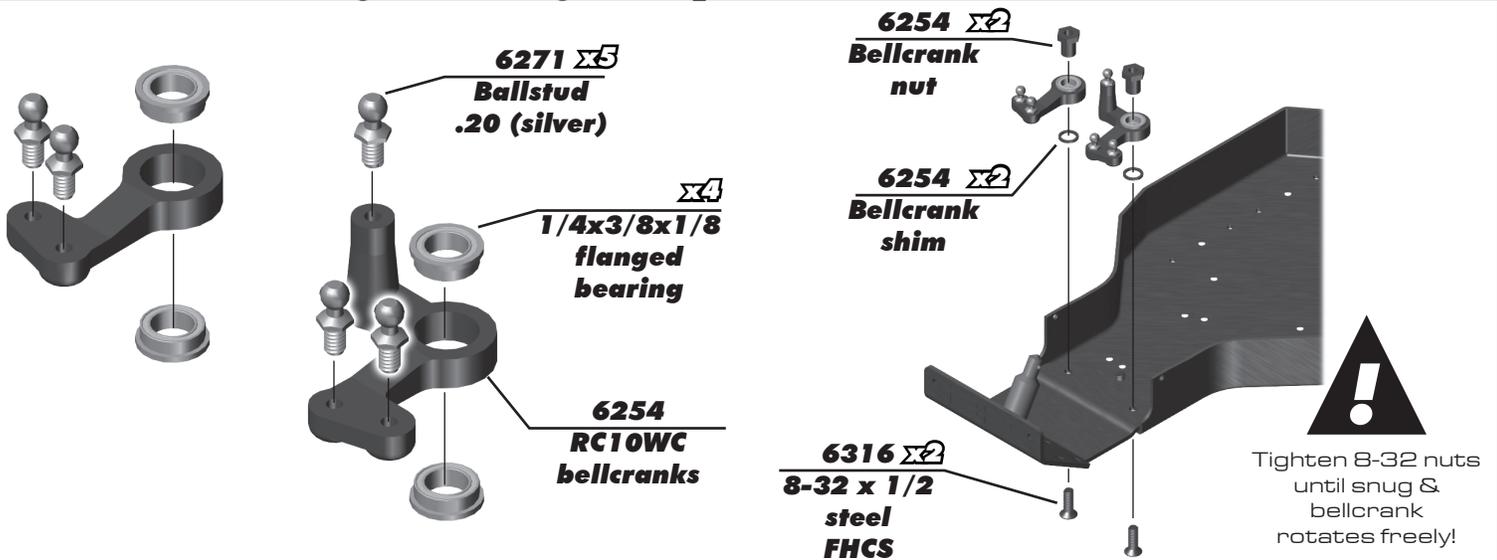
:: Nose Plate / Steering Build - Bag A - Step 1



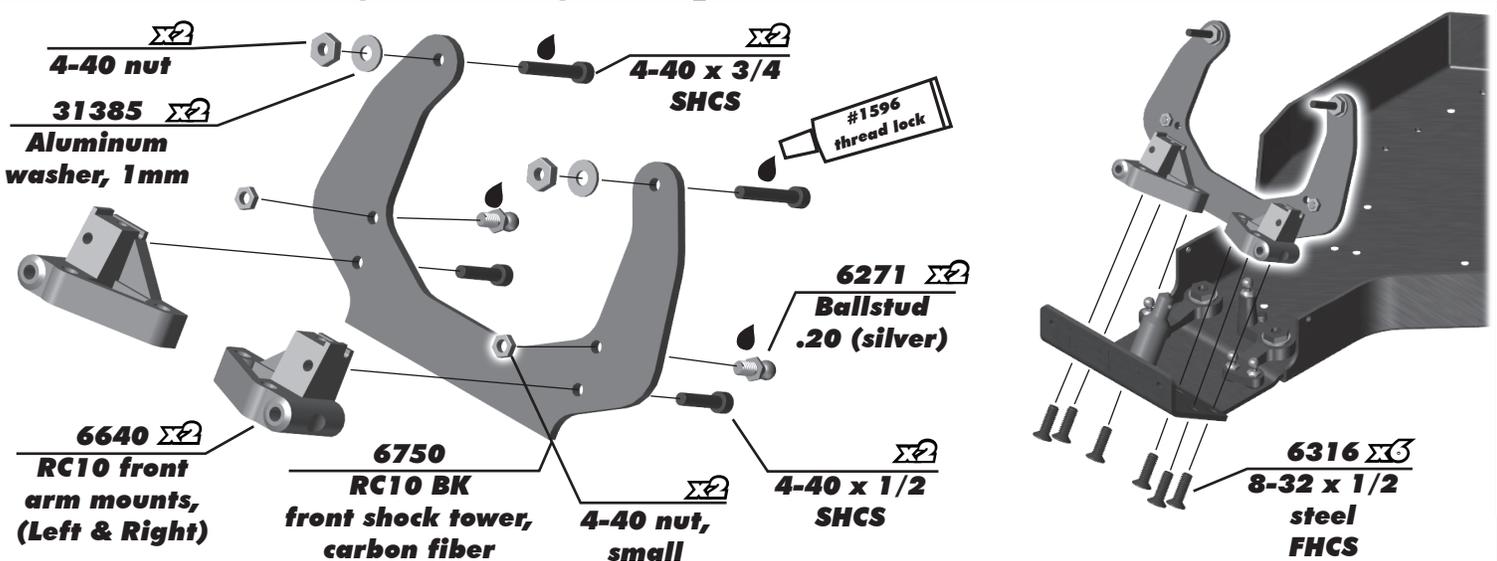
Washers are used to adjust to your preferred body height.



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

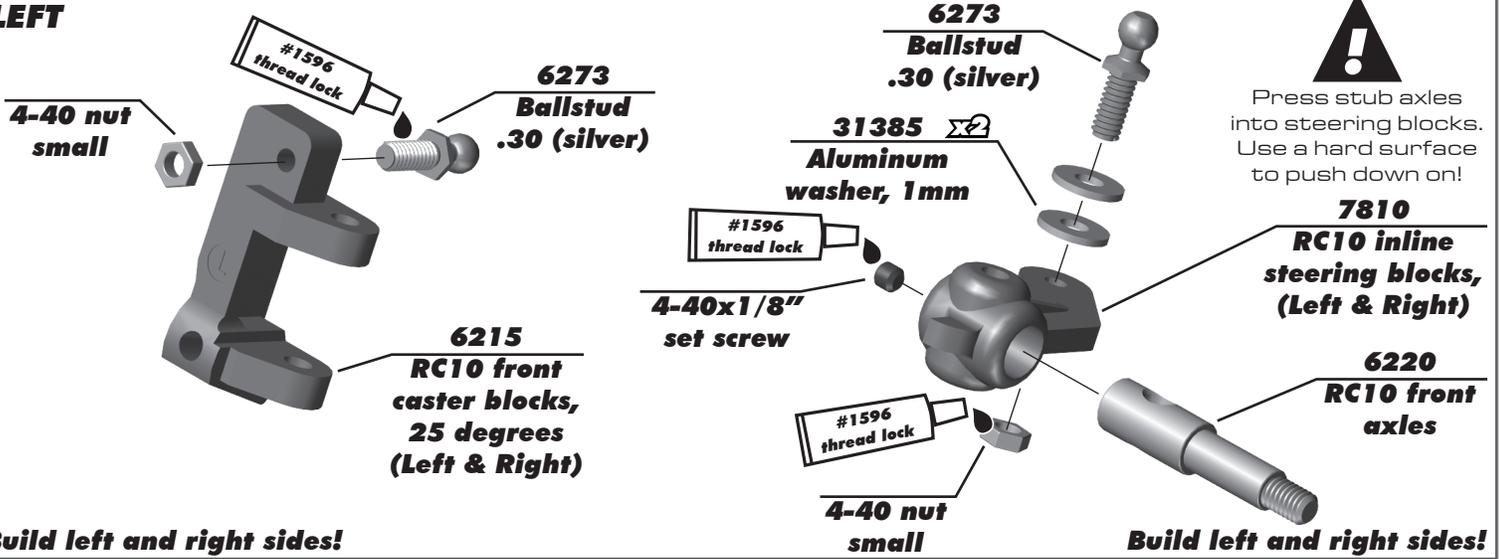


:: Nose Plate / Steering Build - Bag A - Step 3

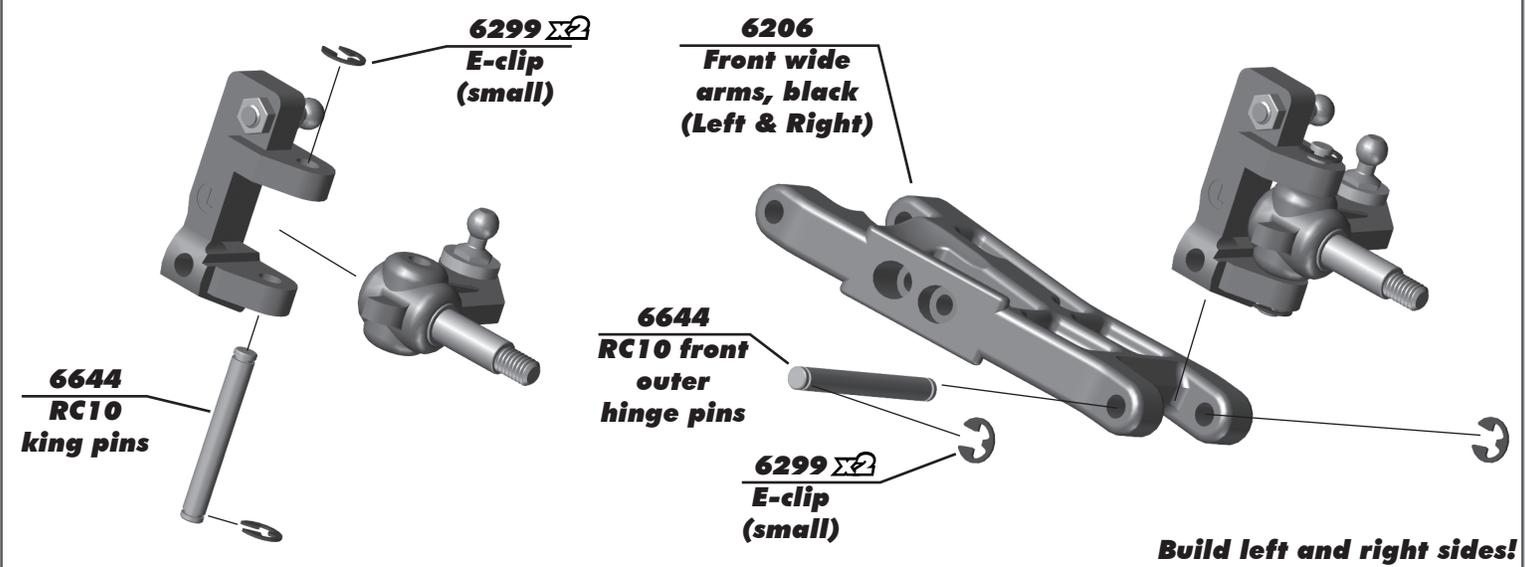


:: Front Suspension Build - Bag B - Step 1

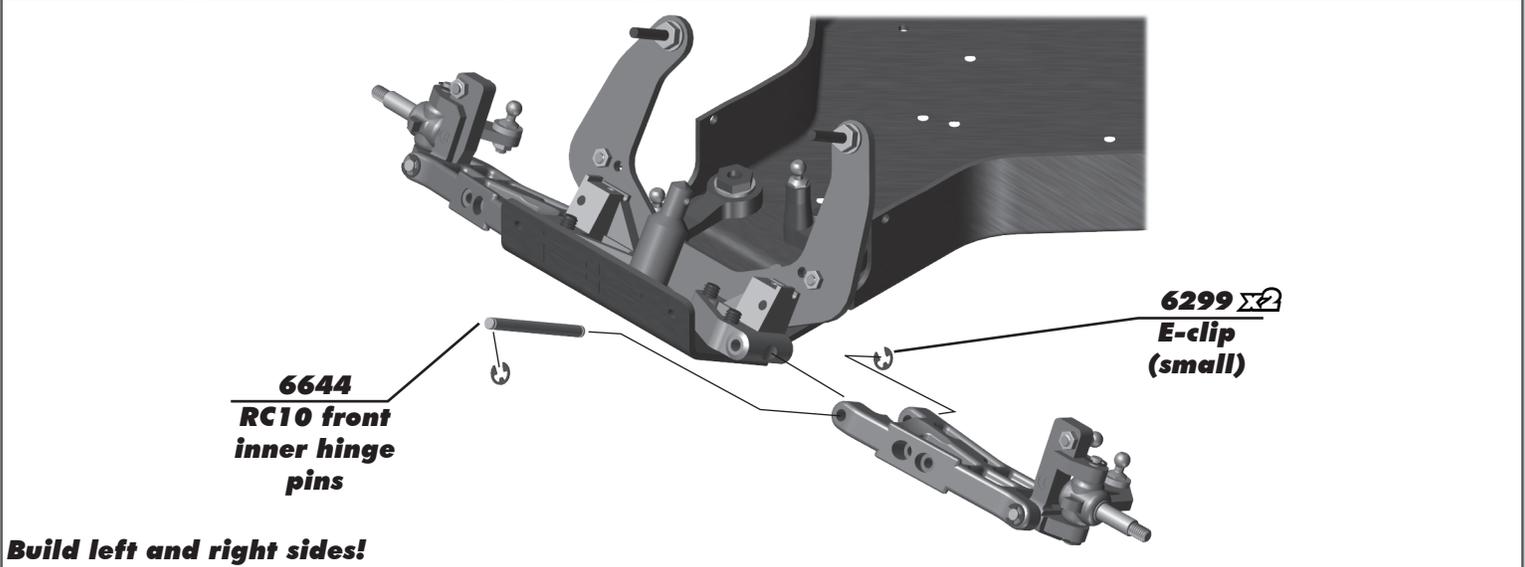
LEFT



:: Front Suspension Build - Bag B - Step 2



:: Front Suspension Build - Bag B - Step 3



:: Transmission Build - Bag C - Step 1

6579 Diff drive rings

6578 Diff outdrives

6578 Diff outdrives

6579 Diff drive rings

6578 Diff outdrives

6573 Diff thrust bolt

Diff thrust washer

Diff thrust balls, cage

BLACK GREASE #6588

FT DIFF LUBE #6591

Build Tip:
Install the first washer (groove up), add grease #6588. Install the caged thrust washer. Add grease on top of the balls, then install the 2nd washer (grooves down).

:: Transmission Build - Bag C - Step 2

6581 $\times 12$ Carbide diff balls, 3/32"

7812 Diff gear 45T

6589 $\Sigma 2$ Bearing 5/32 x 5/16

FT DIFF LUBE #6591

Build Tip:
Do this entire step with the diff screw on the end of your wrench for better control.

:: Transmission Build - Bag C - Step 3

6575 Diff thrust nut

6582 Diff thrust spring

6575 Diff bolt cover

Compress spring first.

As you tighten the diff bolt, you will notice the T-nut ears moving closer to the bottom of the outdrive slot. This compresses the spring behind the T-nut. The spring should be completely compressed at the time the T-nut reaches the end of the slot.

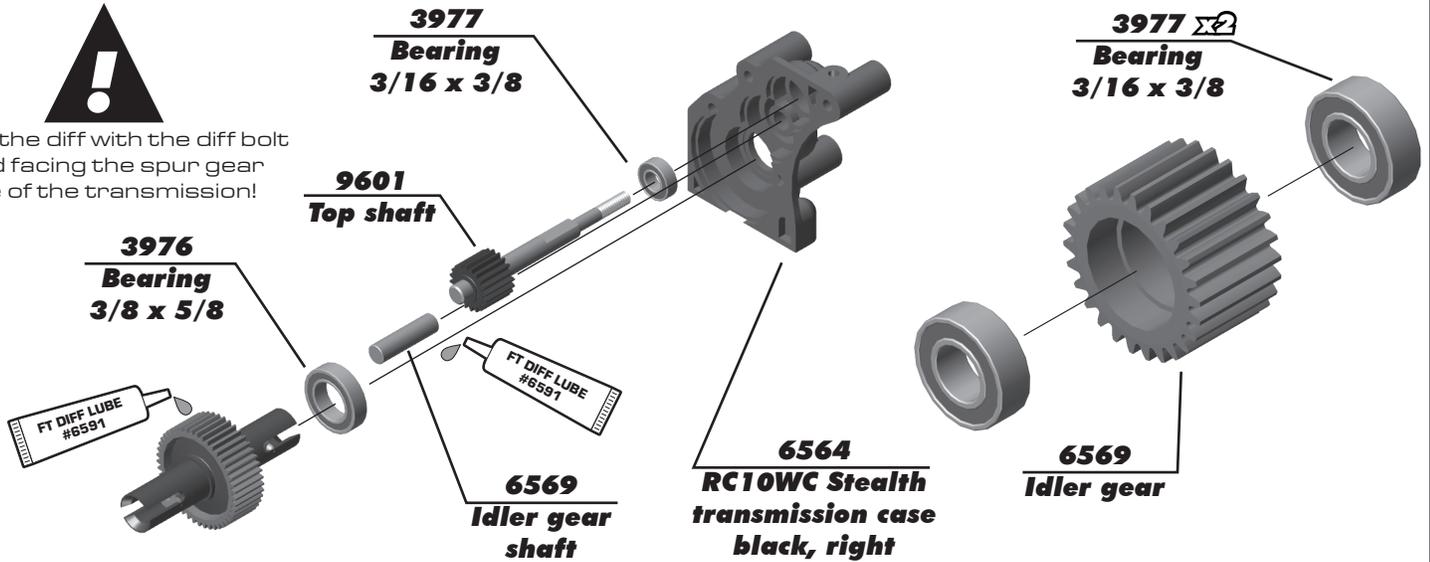
Caution! Pay close attention to the feeling when the spring is completely compressed. Do not overtighten the bolt. When you feel the spring completely compressed, loosen the diff bolt 1/8 of a turn. Your diff should now operate smoothly but with resistance as the outdrives move in opposite directions.

After you have driven the car once, re-check the diff setting.

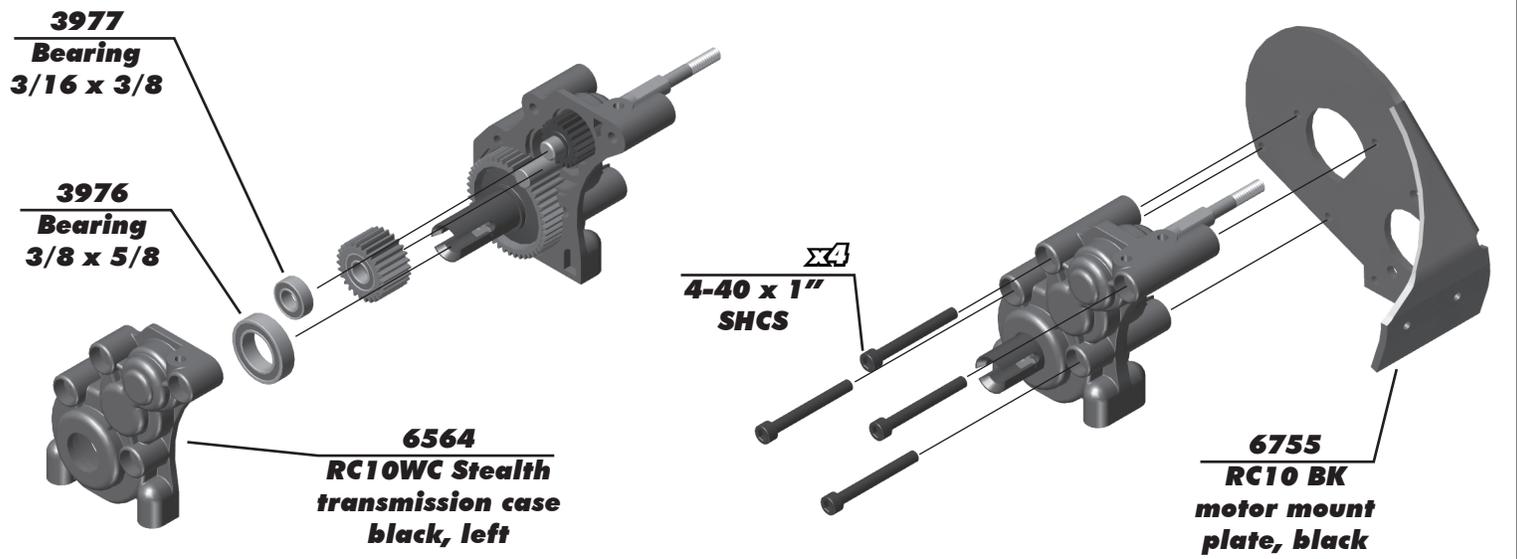
:: Transmission Build - Bag C - Step 4



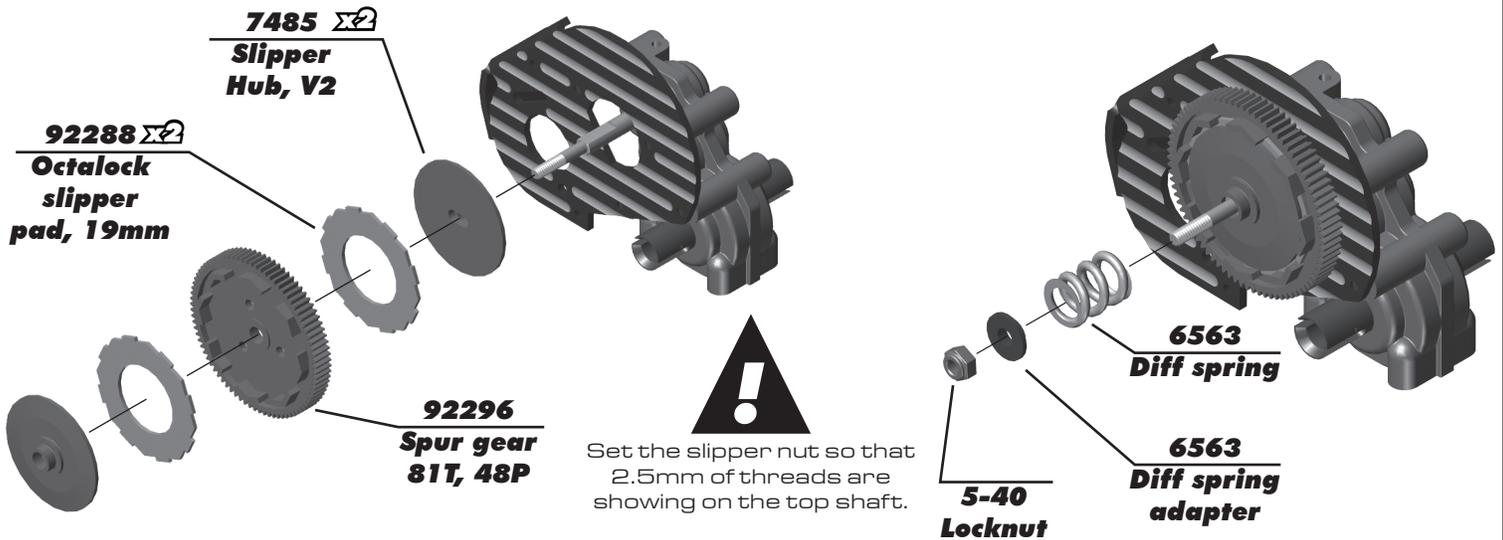
Install the diff with the diff bolt head facing the spur gear side of the transmission!



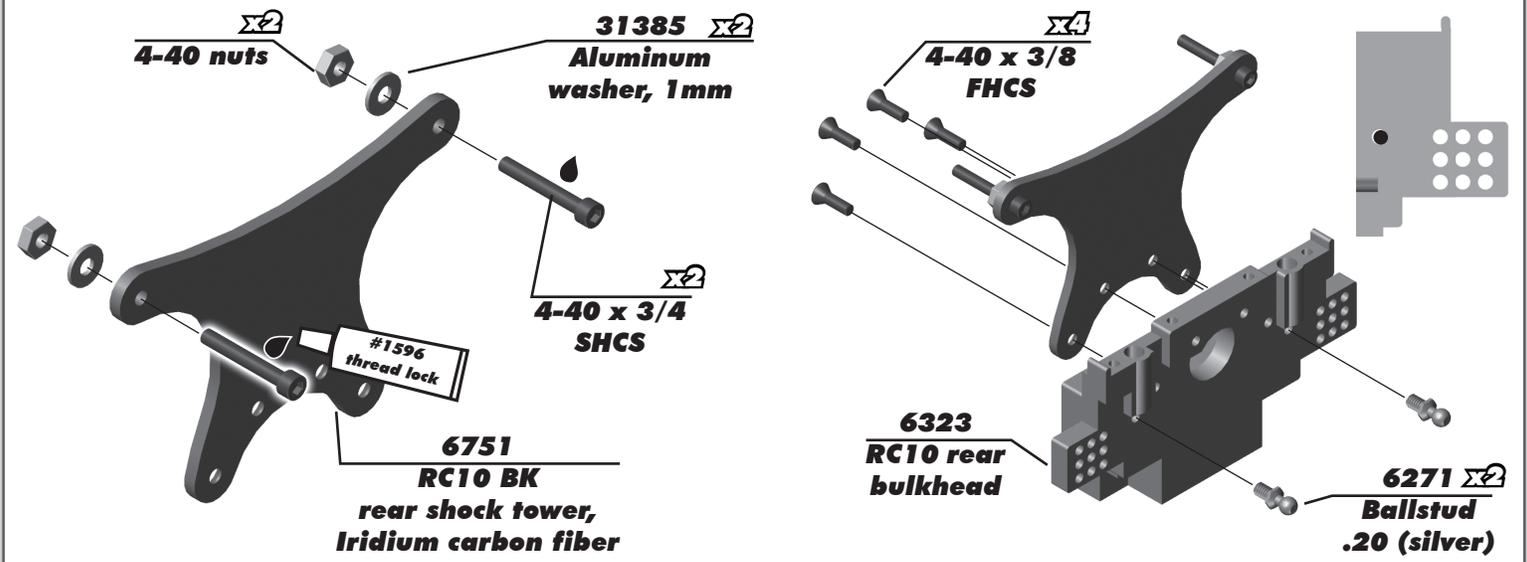
:: Transmission Build - Bag C - Step 5



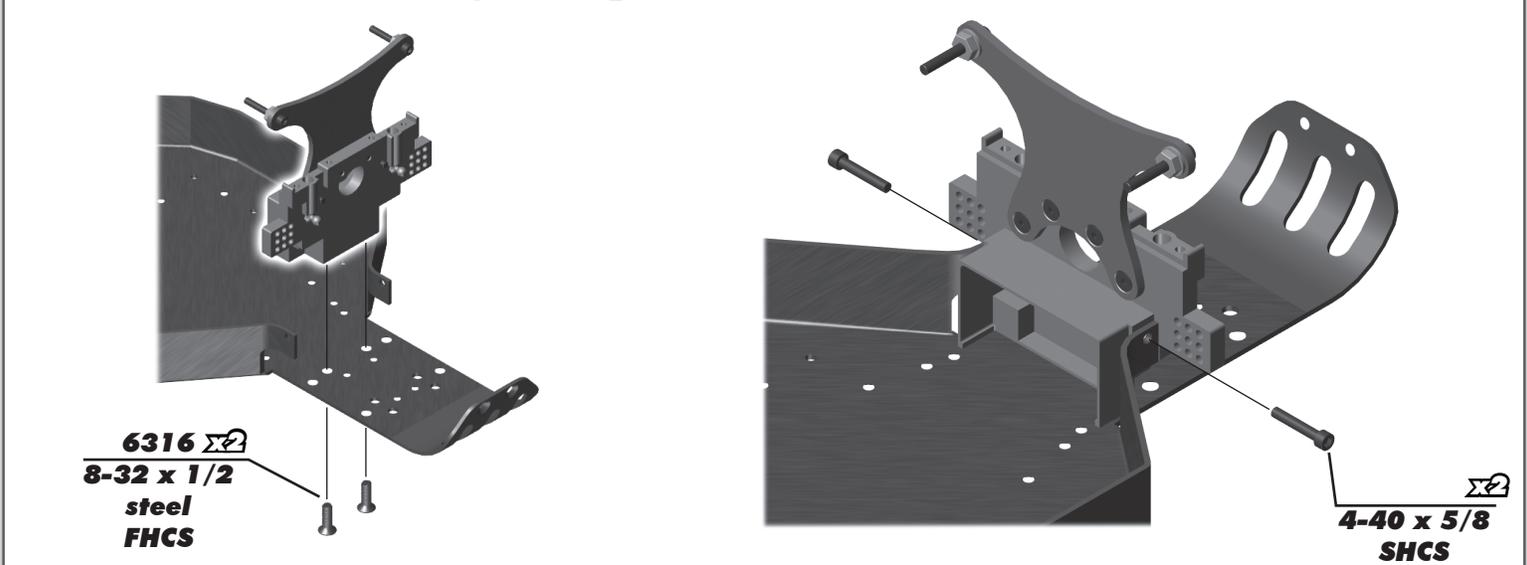
:: Transmission Build - Bag C - Step 6



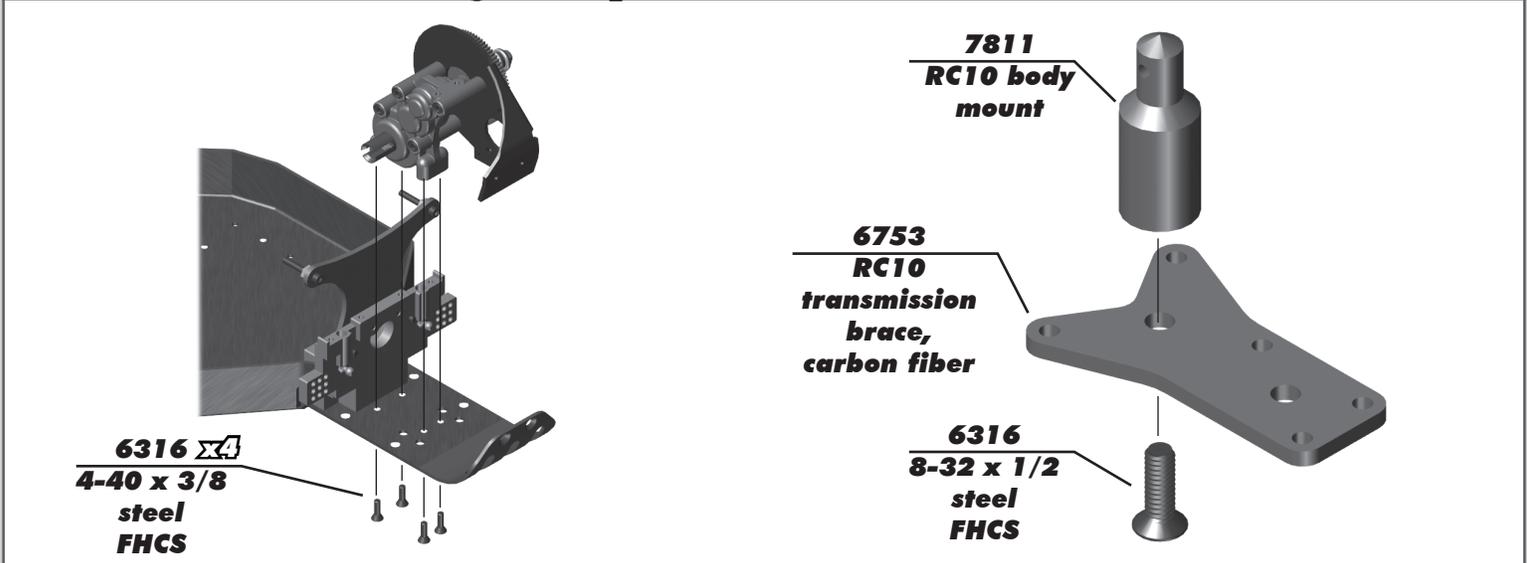
:: Rear Bulkhead Build - Bag D - Step 1



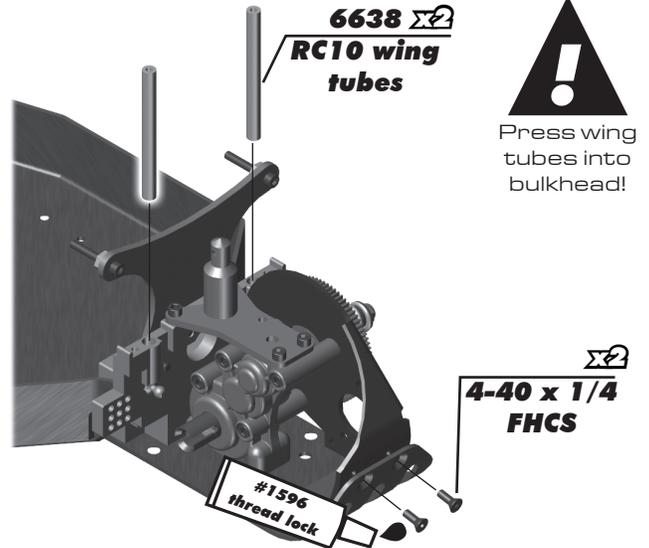
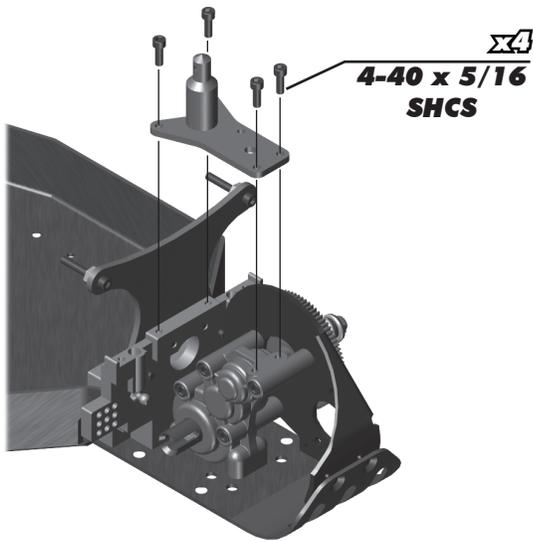
:: Rear Bulkhead Build - Bag D - Step 2



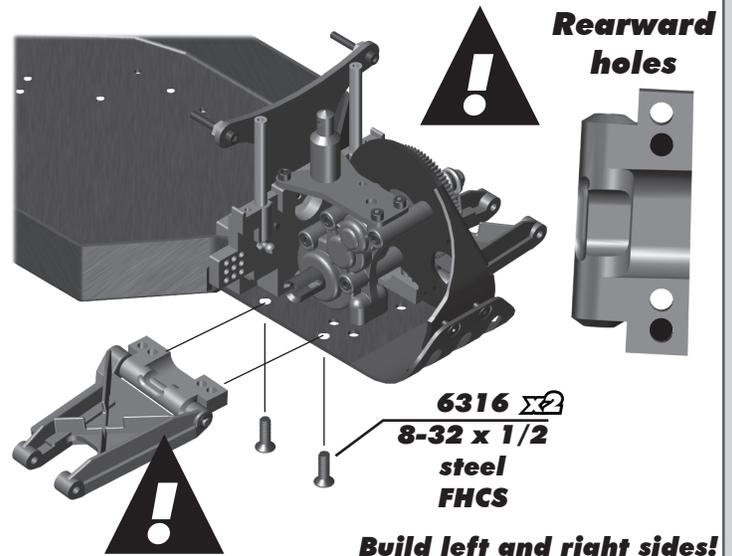
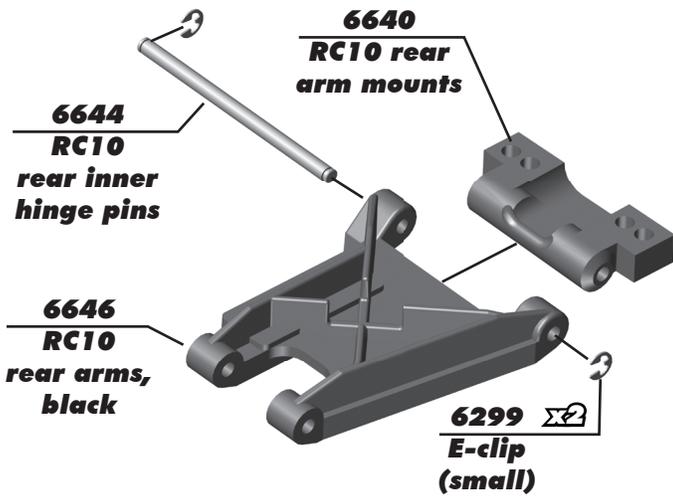
:: Rear Bulkhead Build - Bag D - Step 3



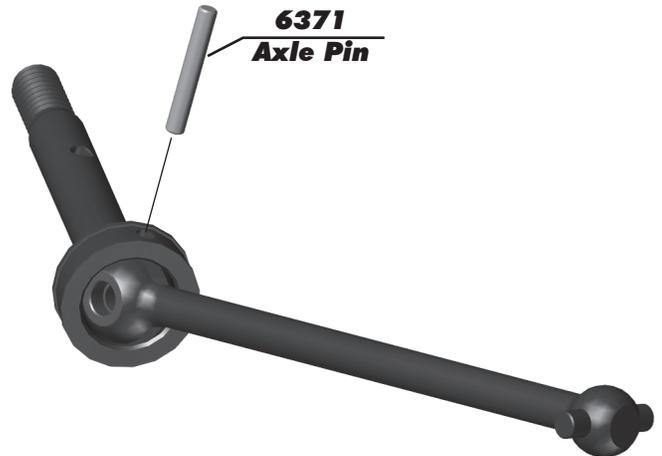
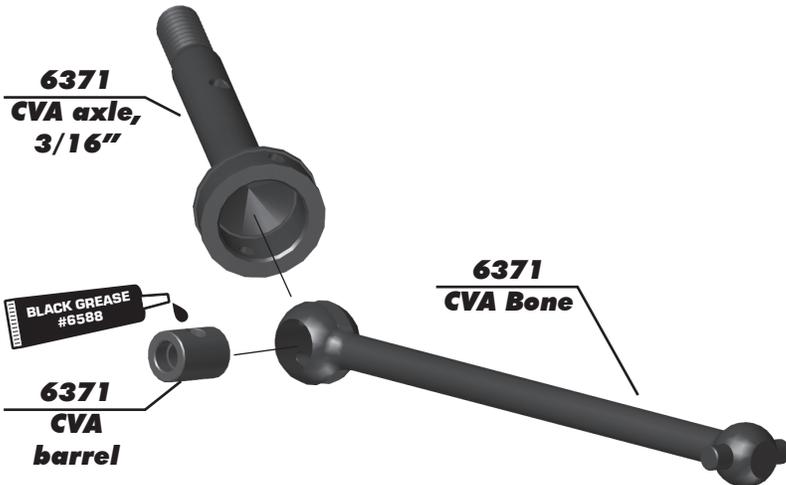
:: Rear Bulkhead Build - Bag D - Step 4



:: Rear Suspension Build - Bag E - Step 1



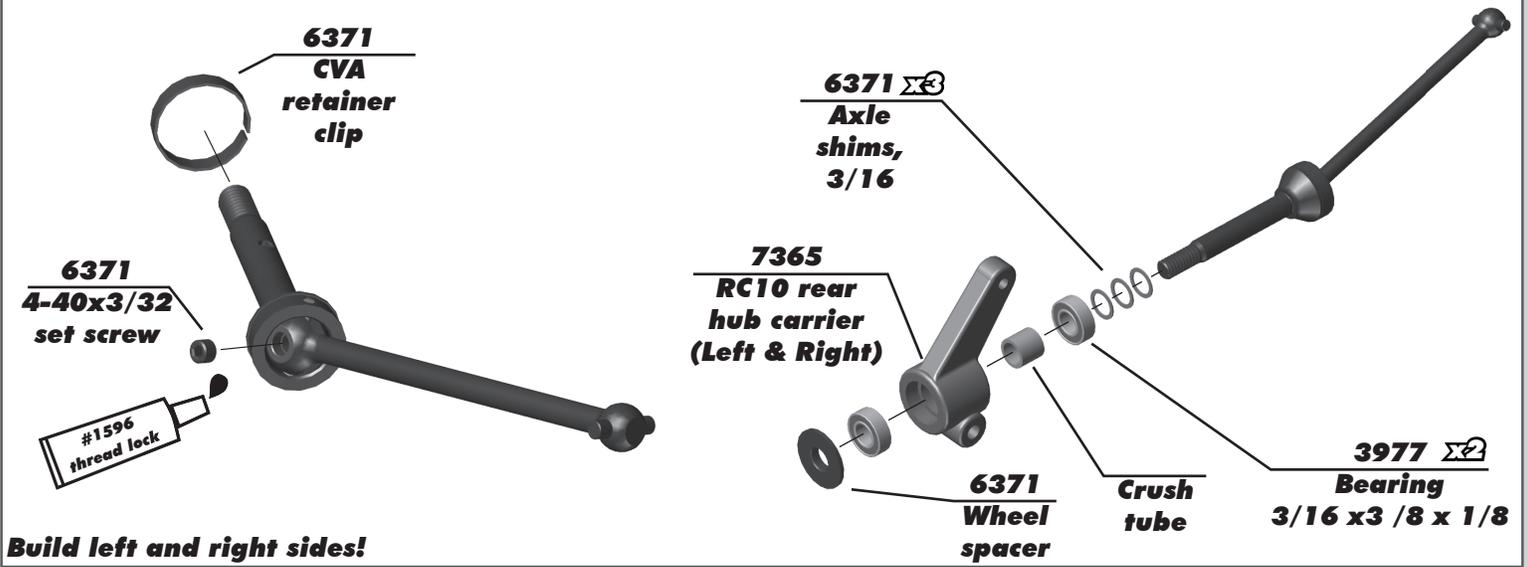
:: Rear Suspension Build - Bag E - Step 2



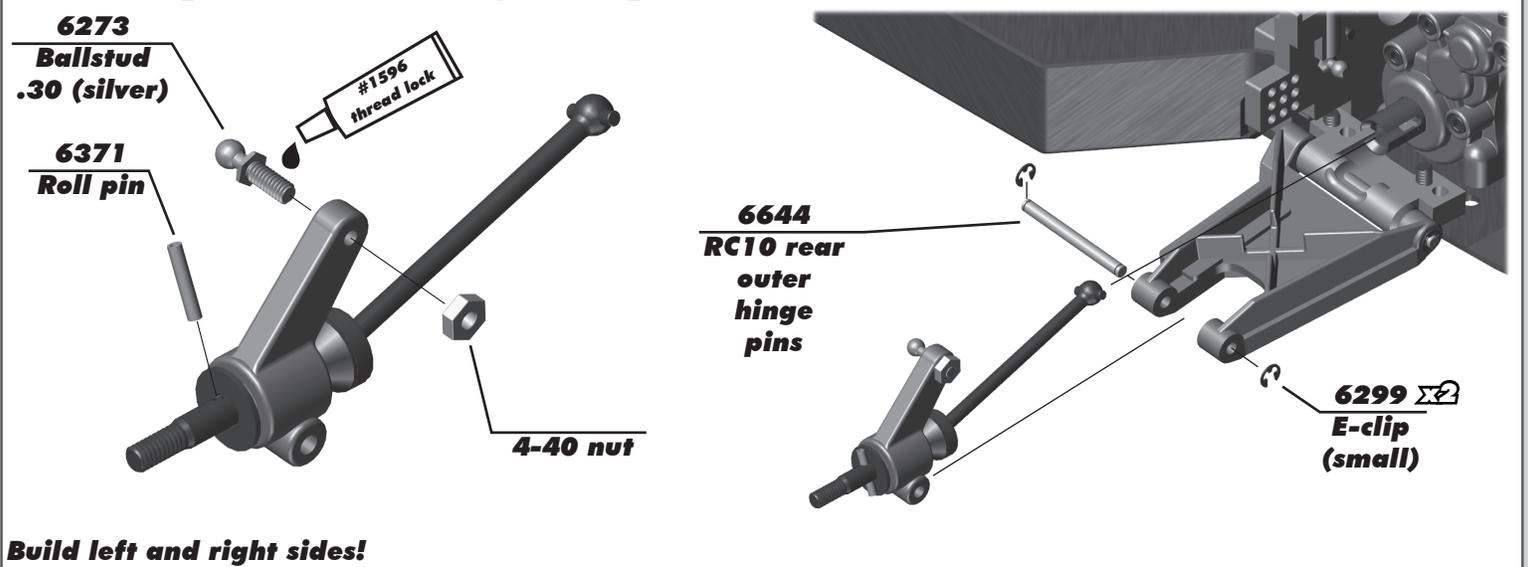
Build left and right sides!

Build left and right sides!

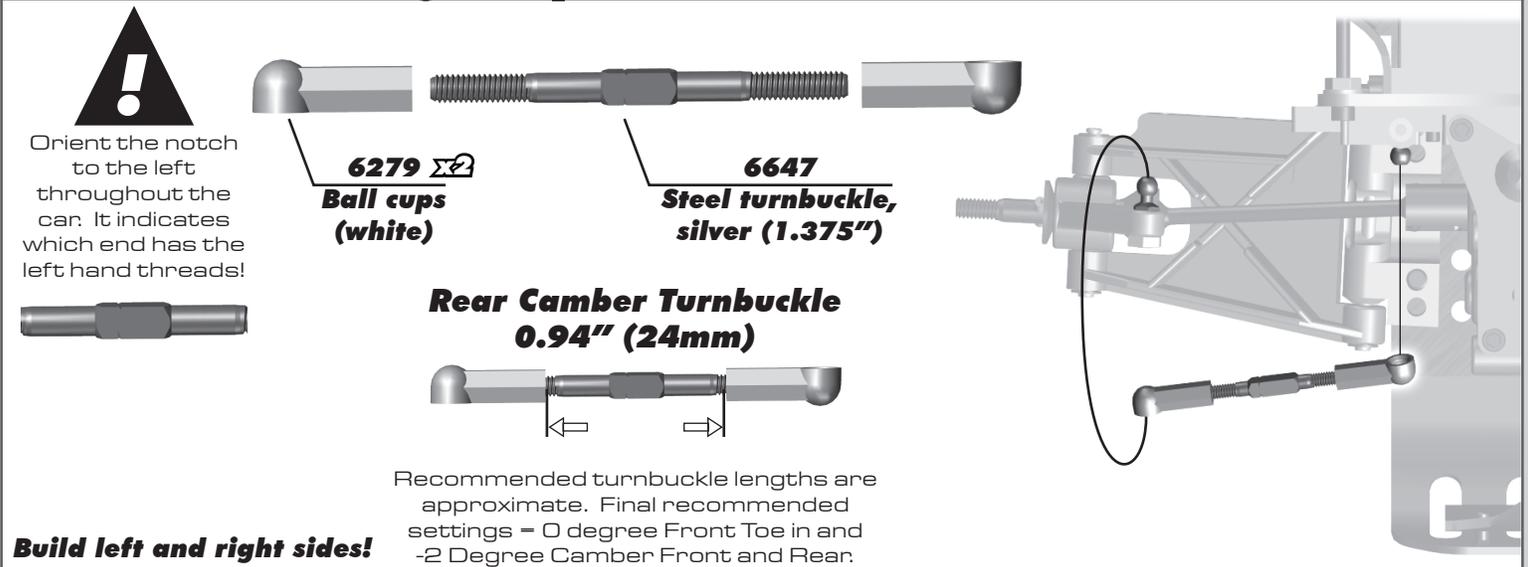
:: Rear Suspension Build - Bag E - Step 3



:: Rear Suspension Build - Bag E - Step 4

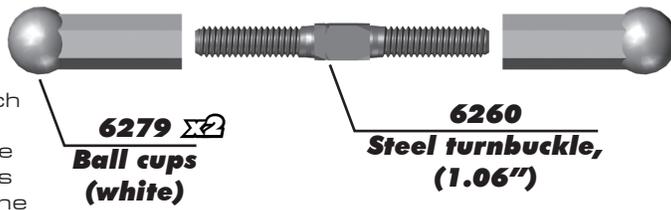


:: Turnbuckles Build - Bag F - Step 1

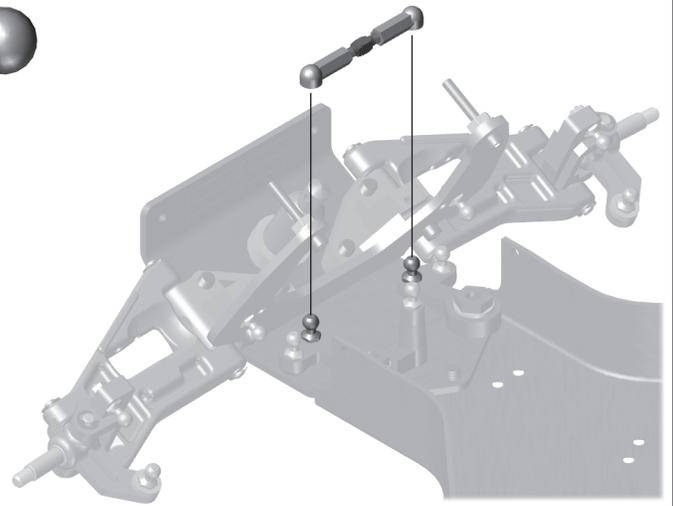
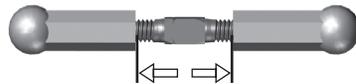


:: Turnbuckles Build - Bag F - Step 2

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

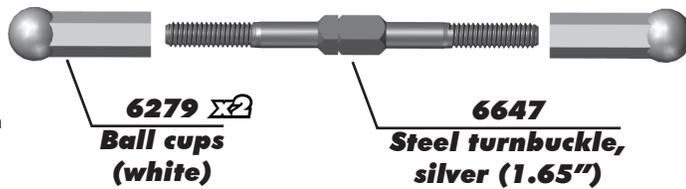


Steering Rack Turnbuckle
0.51" (13mm)



:: Turnbuckles Build - Bag F - Step 3

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

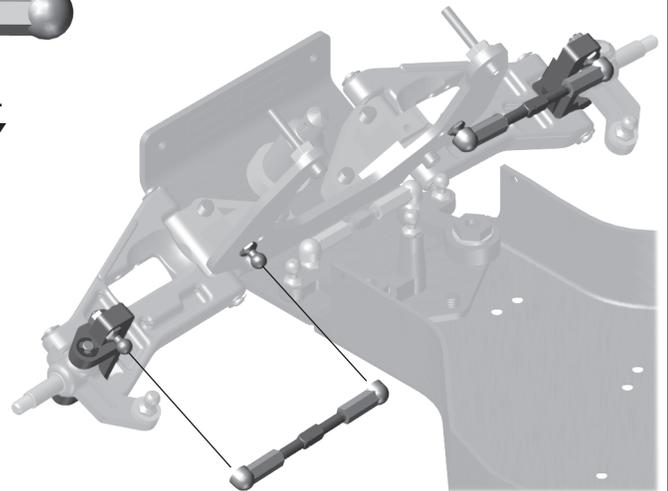


Front Camber Turnbuckle
1.14" (29.00mm)



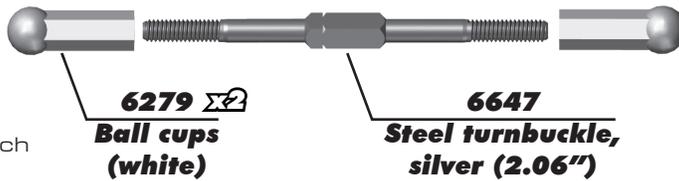
Recommended turnbuckle lengths are approximate. Final recommended settings = 0 degree Front Toe in and -2 Degree Camber Front and Rear.

Build left and right sides!



:: Turnbuckles Build - Bag F - Step 4

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

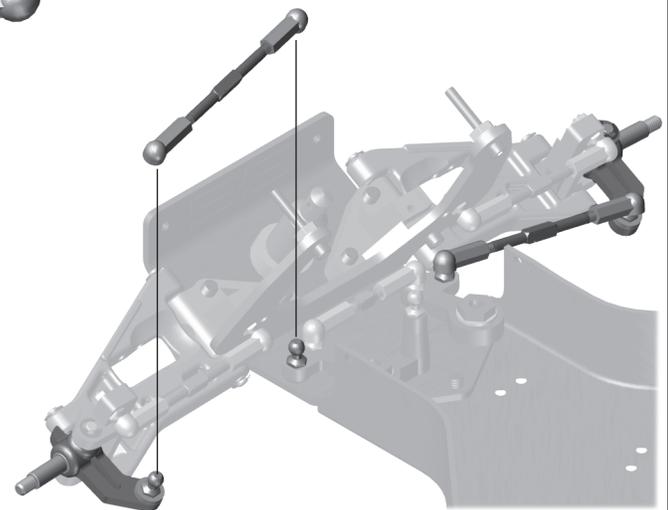


Steering Turnbuckle
1.42" (36.00mm)



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 #2 = 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)

6420/6462 Shock pistons (1, 2, 3)

6299 E-clip (small)

Build two front and two rear!

:: Shocks Build - Bag G - Step 2

5407 $\Sigma 2$ Red o-ring

Remove spurs

Shock assembly tool

6420/6462 $\Sigma 2$ Off-road shock rebuild kit

6437 FT Hard Anodized shock body, front (0.71)

6435 FT Hard Anodized shock body, rear (1.32)

Shock fluid 30wt #5422

SNAP!

SNAP!

Front Shock

Rear Shock

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

:: Shocks Build - Bag G - Step 3

Front Shock

Rear Shock

6420/6462 $\Sigma 5$ Shock downstops

6420/6462 Shock cap o-ring

6279 Shock rod end

6420/6462 Shock pivot ball

Build two front and two rear!

:: Shocks Build - Bag G - Step 4

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.

6443 RC10 bleeder shock cap

Shock fluid 30wt #5422

Stroke Front: 19mm
Rear: 23mm

6443 2-56 x 1/8 BHCS

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

:: Shocks Build - Bag G - Step 5

6639 RC10 shock collar

4-40 x 3/8 SHCS

Front shock spring, black (3.20lb)

Rear shock spring, green (1.90lb)

6639 RC10 spring cup

Front: 6mm (Arms level)
Rear: 5mm (Dog bones level)

Build two front and two rear!

Due to various weights of electronics, these settings may change

:: Shocks Build - Bag G - Step 6

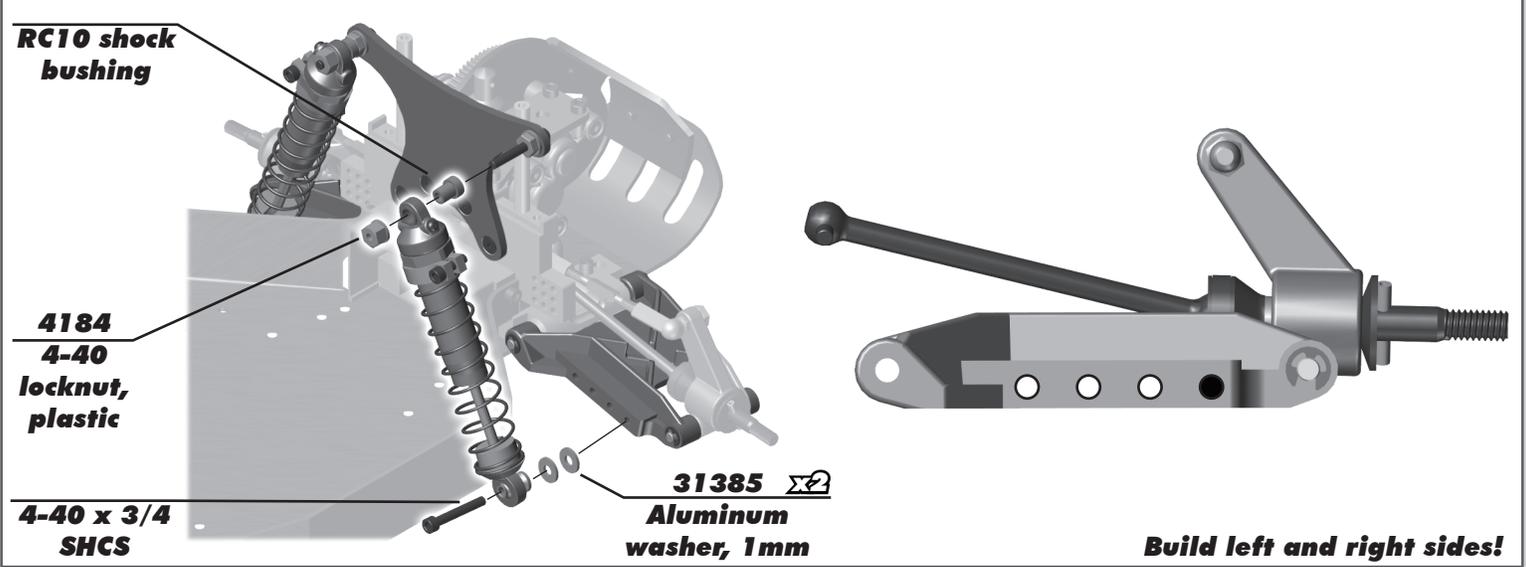
4184 4-40 locknut, plastic

RC10 shock bushing

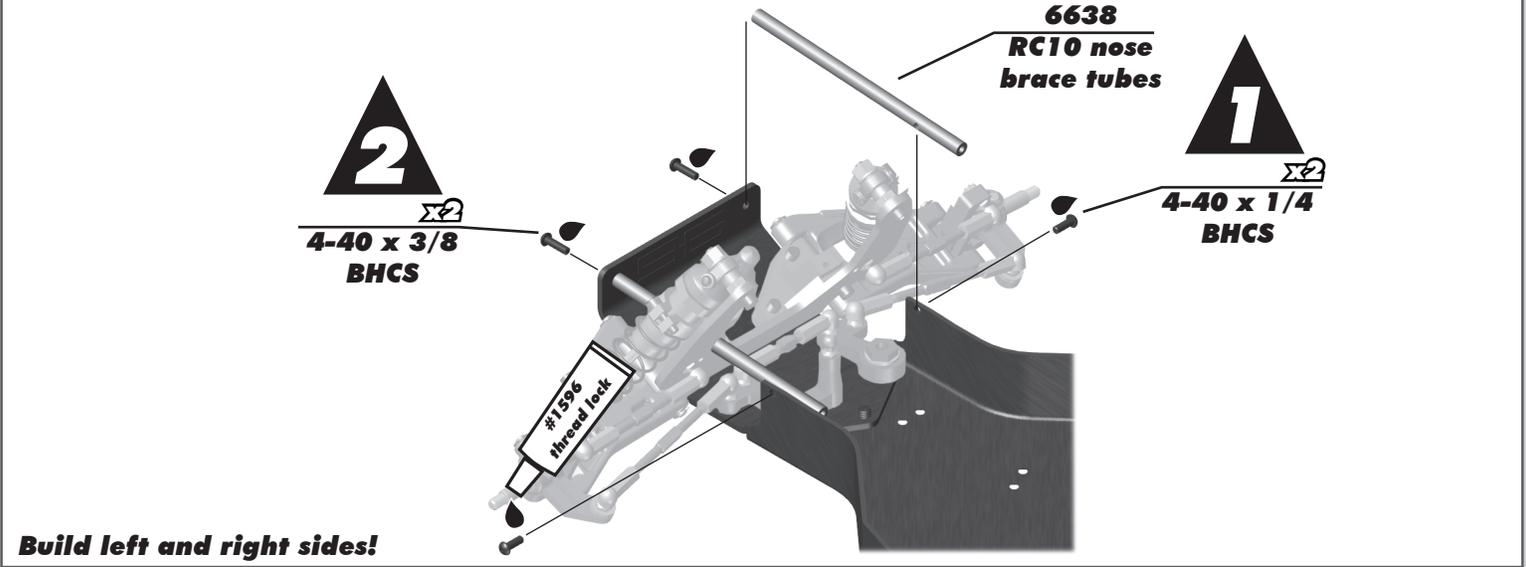
4-40 x 3/4 SHCS

Build left and right sides!

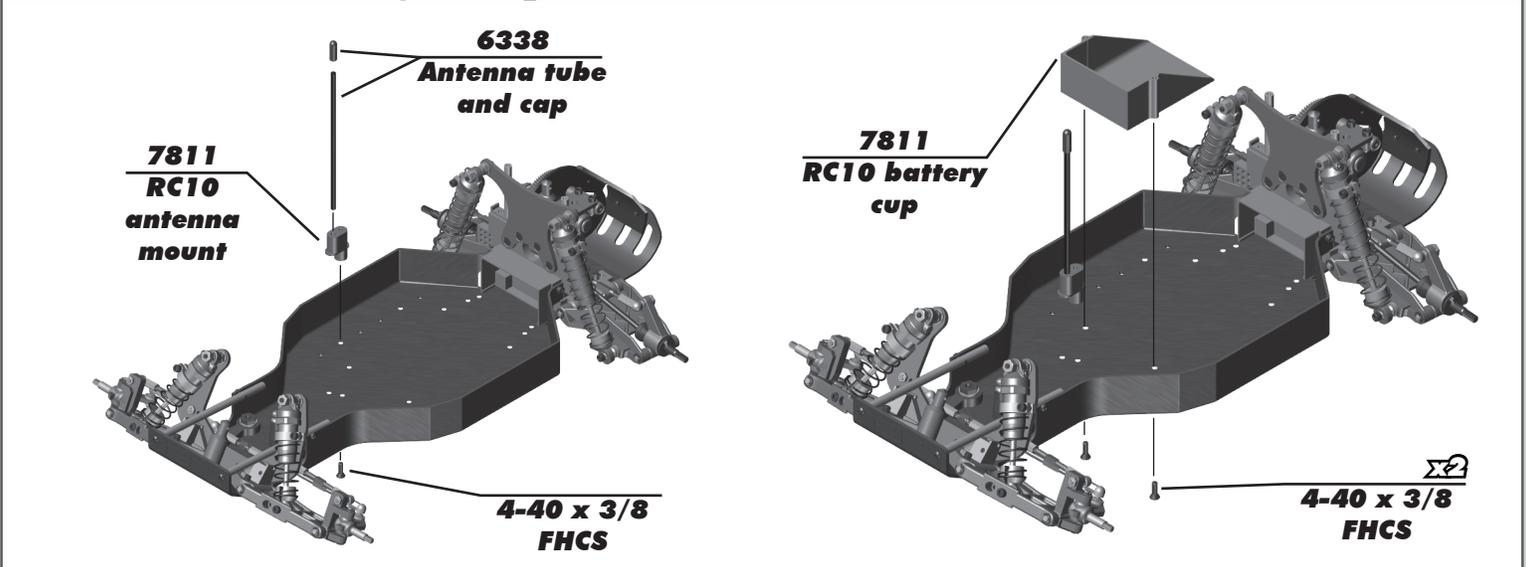
:: Shocks Build - Bag G - Step 7



:: Chassis Build - Bag H - Step 1



:: Electronics Build - Bag I - Step 1



:: Electronics Build - Bag I - Step 2



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



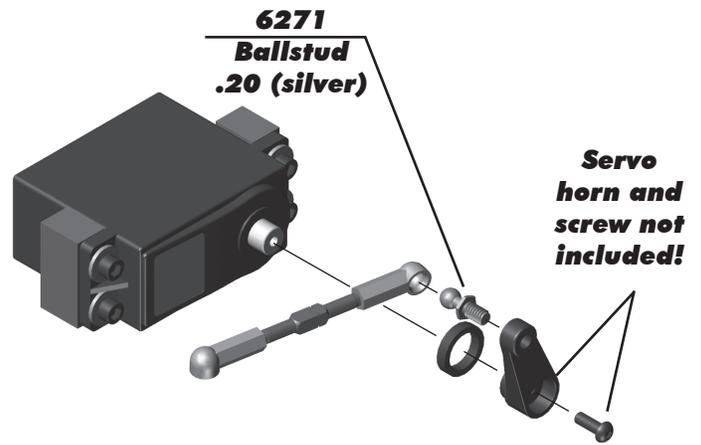
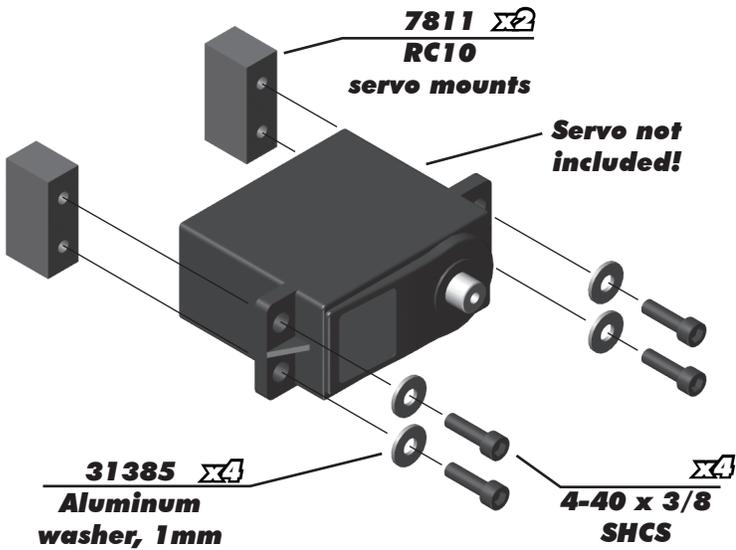
6279 $\Sigma 2$
Ball cups
(white)

6647
Steel turnbuckle,
silver (1.65")

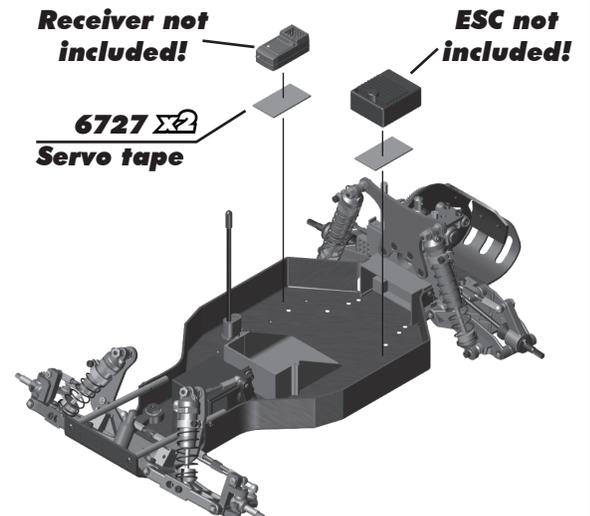
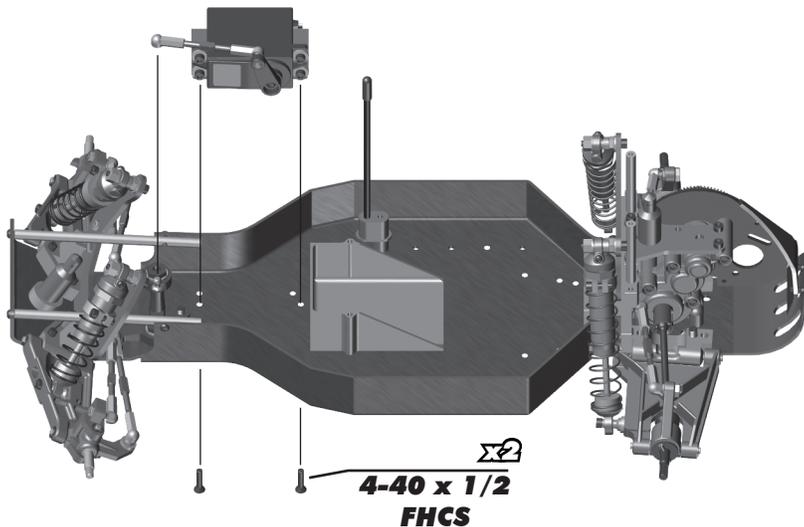
Servo Turnbuckle
1.34" (34mm)



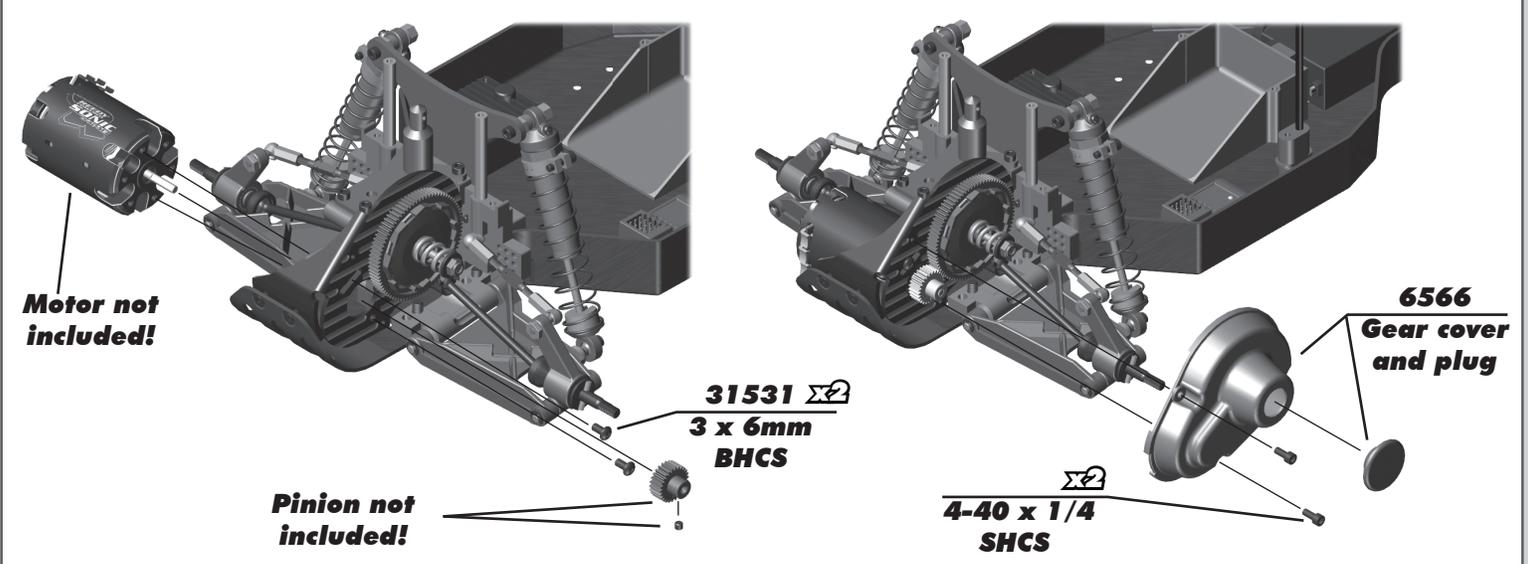
:: Electronics Build - Bag I - Step 3



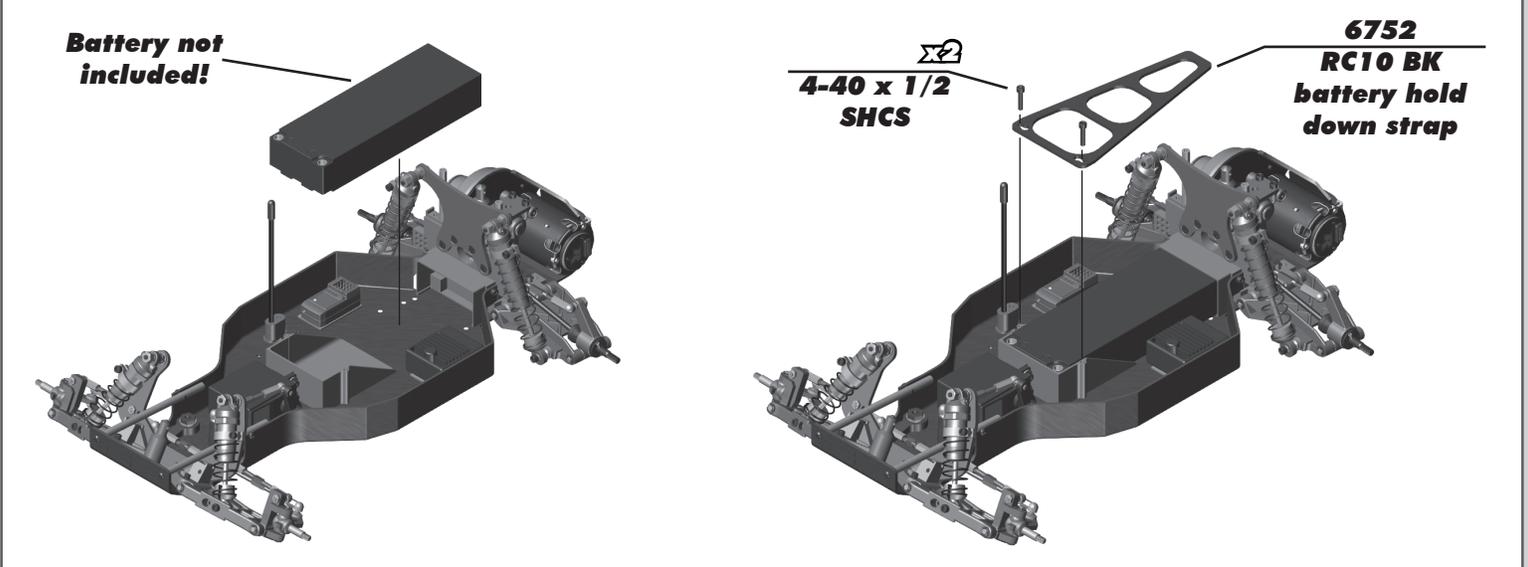
:: Electronics Build - Bag I - Step 4



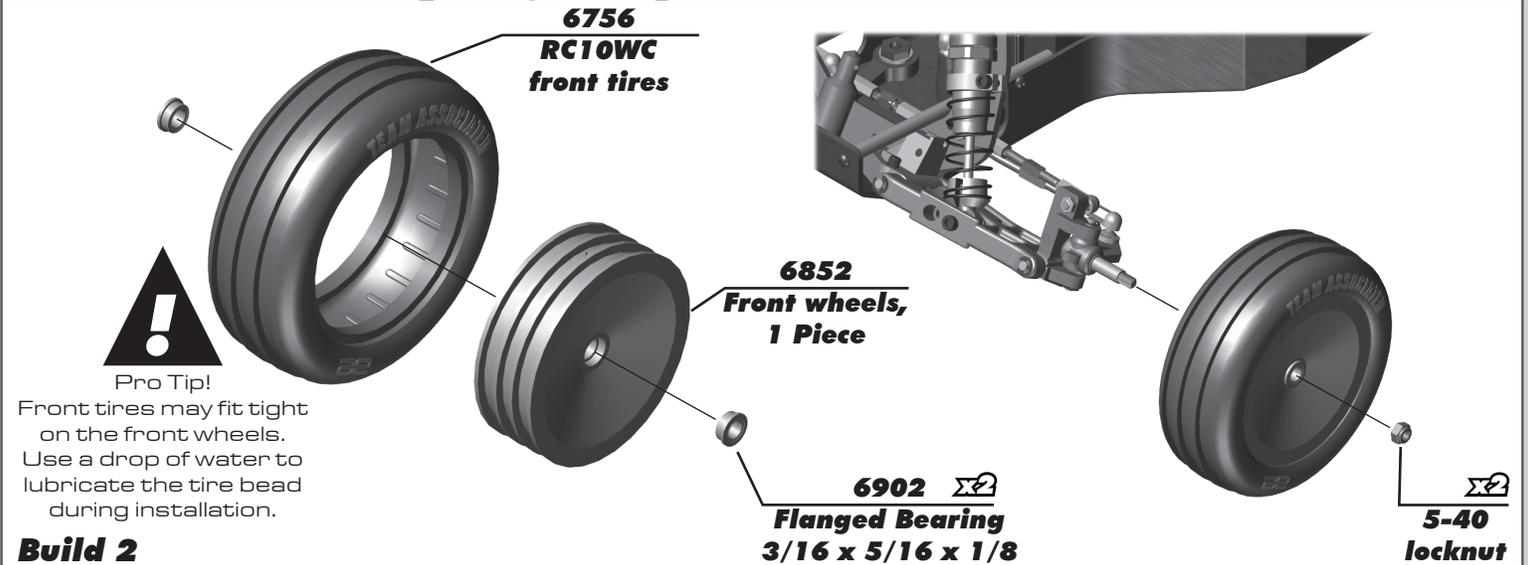
:: Electronics Build - Bag I - Step 5



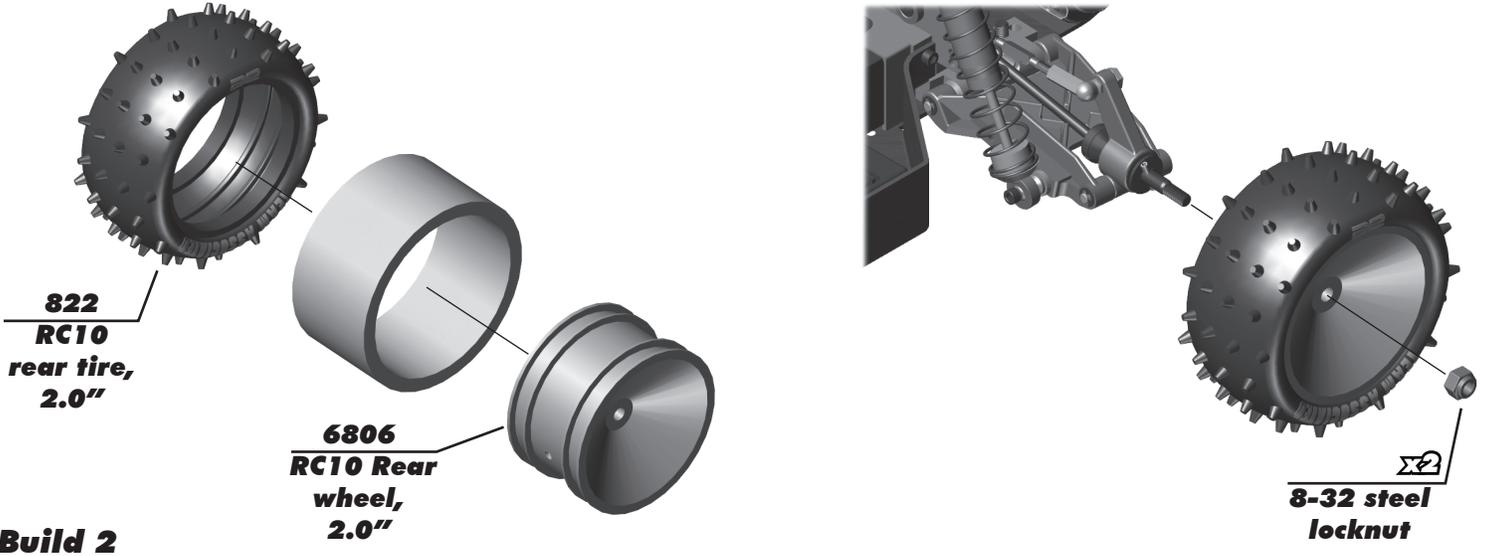
:: Electronics Build - Bag I - Step 6



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



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



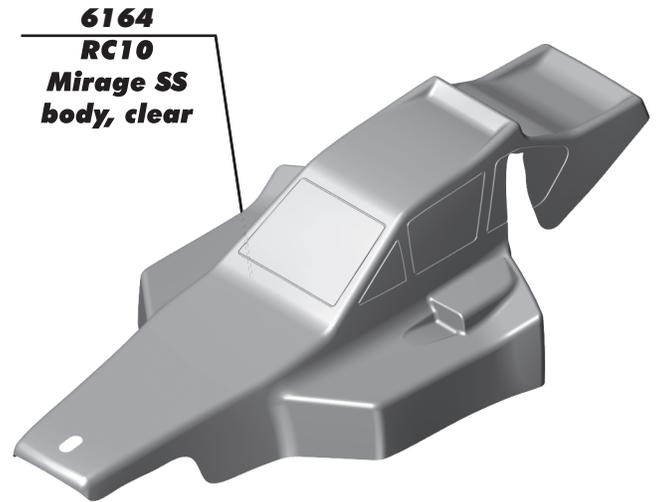
:: Wheels / Tires and Body - Bag J - Step 3

Painting Tips:

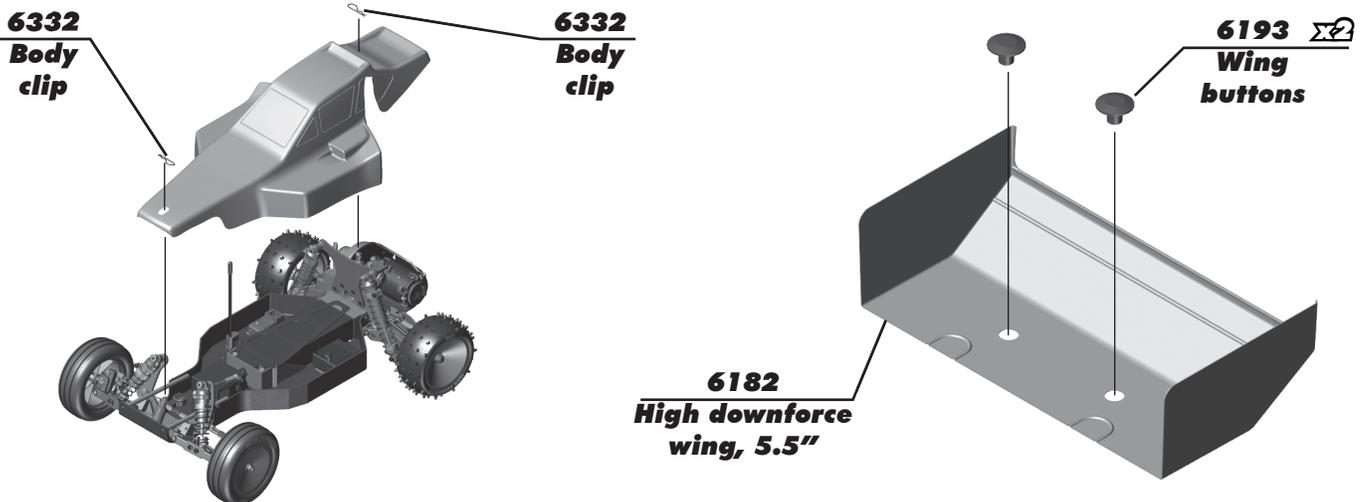
Your RC10 Kit comes with a clear polycarbonate body and wing. You will need to prep the body and wing before you can paint them. Wash the inside thoroughly with warm water and liquid detergent. Dry the body and wing using a clean, soft, lint-free cloth. Use high quality masking tape to make masks for 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!

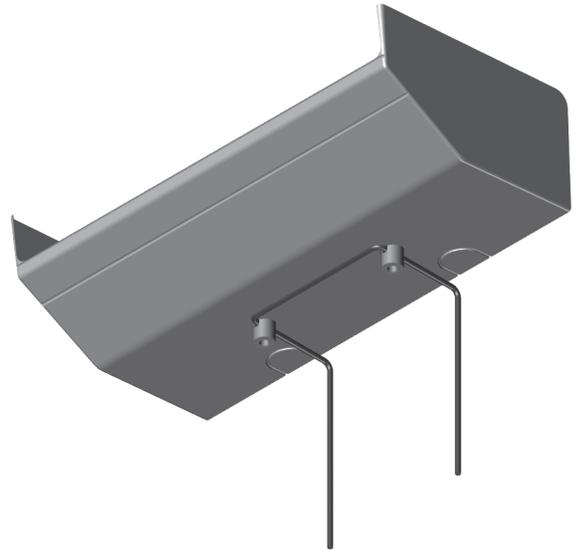
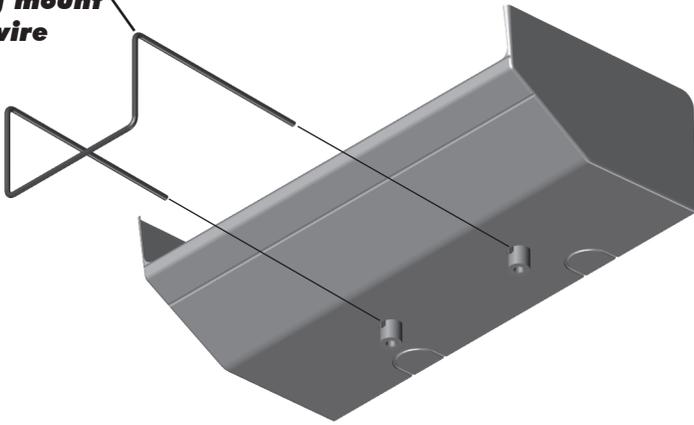


:: Wheels / Tires and Body - Bag J - Step 4

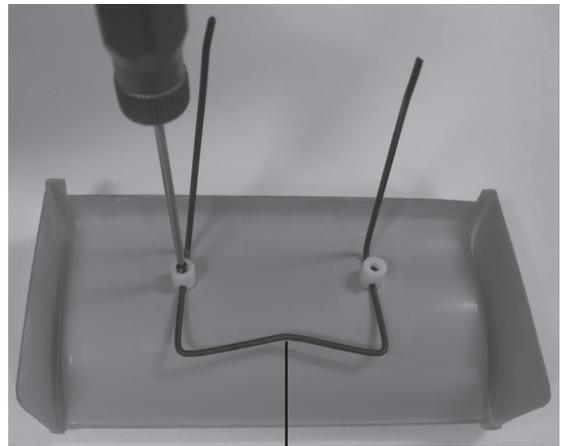
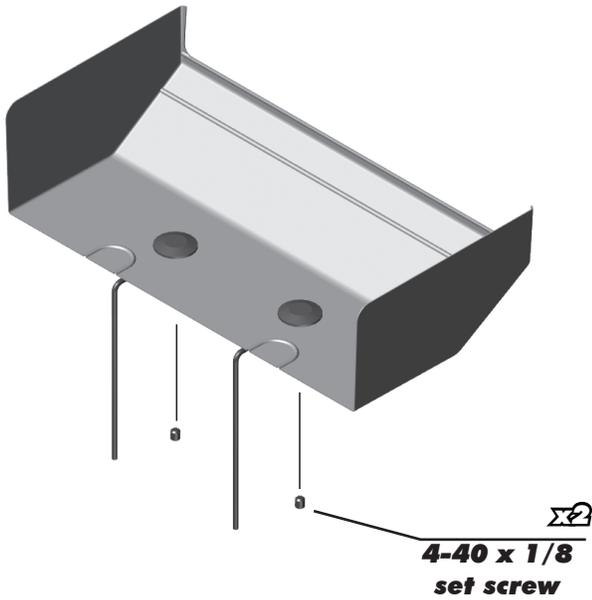


:: Wheels / Tires and Body - Bag J - Step 5

6648
Wing mount
wire



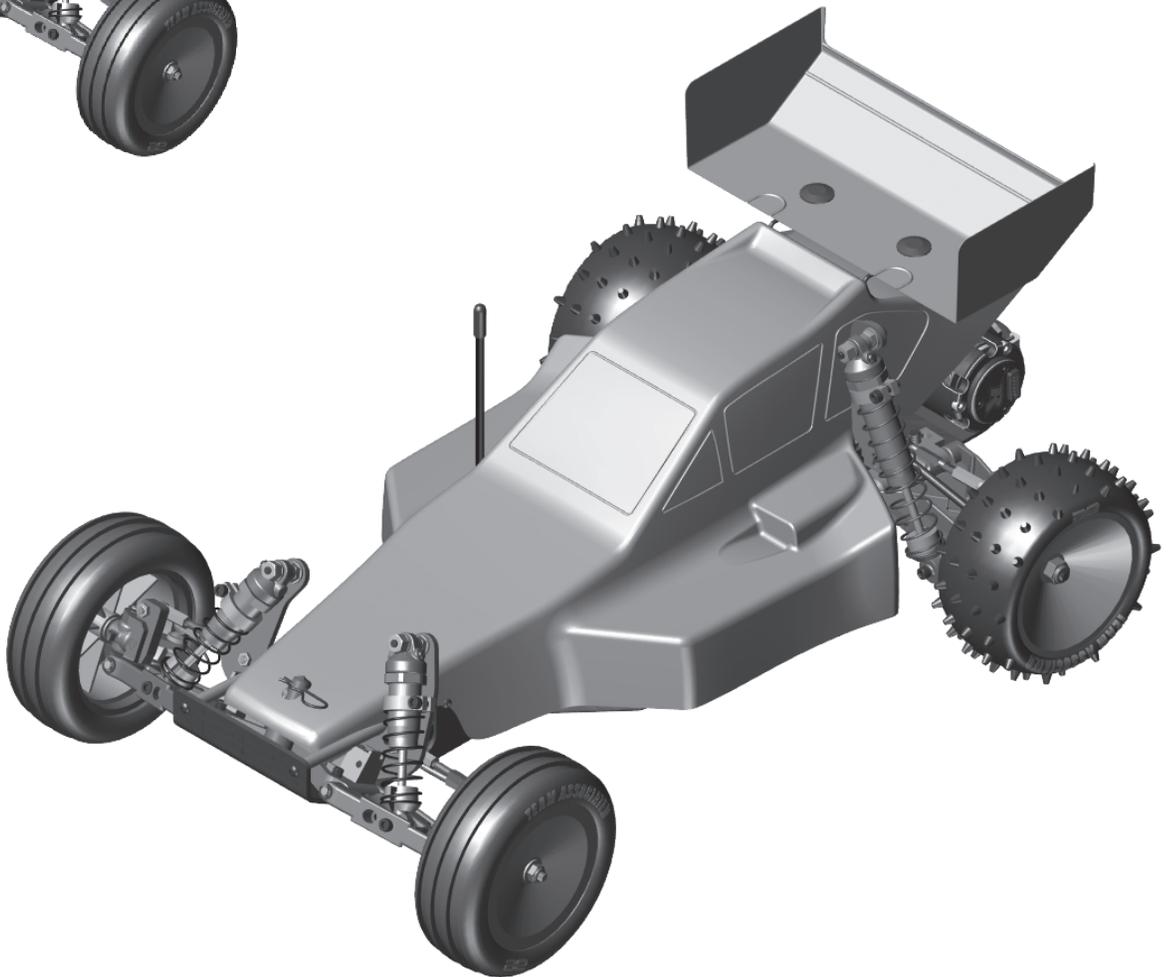
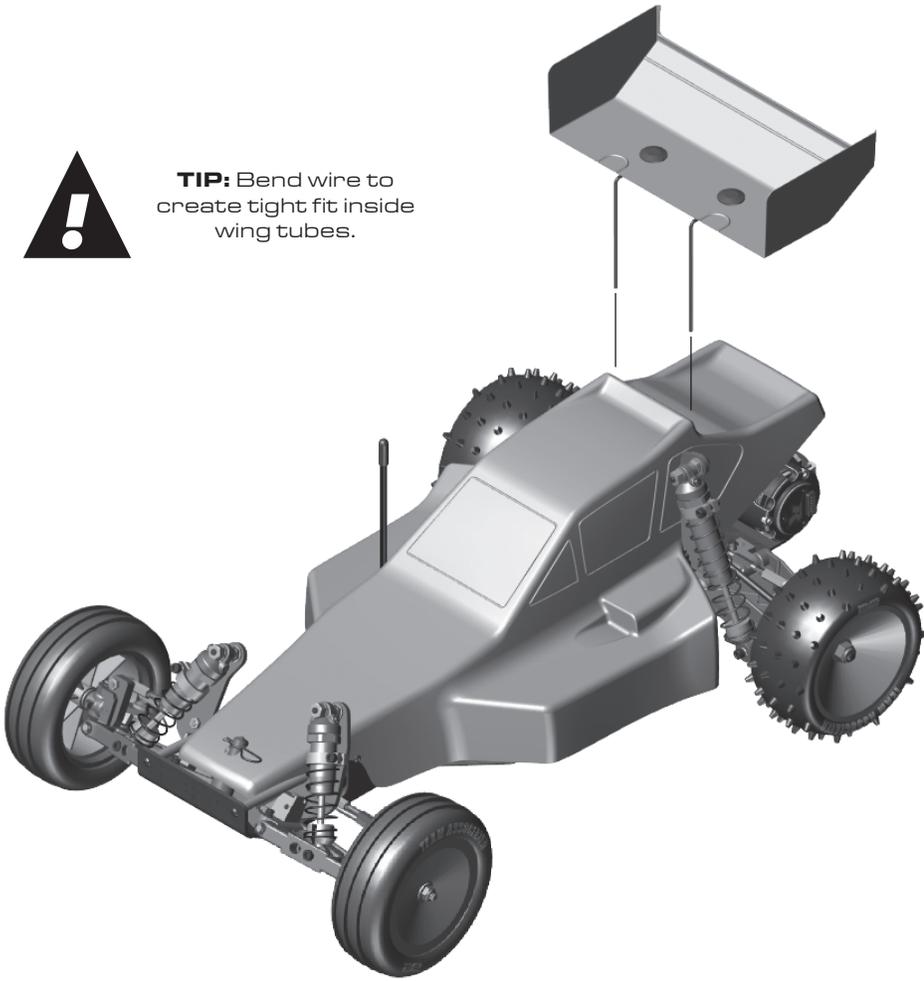
:: Wheels / Tires and Body - Bag J - Step 6



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

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

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



:: Notes

Blank area for notes.



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