1:10 Scale 2WD Electric Off Road
Competition Sprint Car Kit



TEAM ASSOCIATED

1:10 Scale 2WD Electric Off Road Competition Sprint Car Kit Manual

#6057 RC10 Sprint Car Kit

WeAreAE 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 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 Sprint Car Kit:

- New Team Associated clear sprint car body and wing included
- Black anodized 6061 aluminum chassis, nose plate and motor plates
- Fiberglass front and rear shock towers
- Hard Anodized shock bodies
- New front wing and mounting system
- New Factory Team 12mm hex front steering block
- New Factory Team 12mm hex front axle
- Factory Team 12mm Hex rear CVA's included
- 12mm Hex B7 wheels included
- Heavy Duty Metric Ball Studs
- All New RC10 B6 Gear Diff compliant transmission case
- New designed motor plates with new transmission case
- Heavy Duty Ball Cups and 3.5mm adjustable turnbuckles
- Multiple rear arm mount degrees included
- 1.5 degree rear hub and 0 degree rear hubs included
- All Black plastics + white 1.5 degree rear hubs
- Full ball bearings included
- New Team Associated livery decals included
- V2 slipper system included
- Independent suspension with durable long front arms and refined geometry
- World's Car bellcrank steering
- Spring Car dirt tires included
- All new sprint car wing mounting system

:: 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)
- R/C Electric Motor
- Steering Servo
- Servo Horn (AE #89007)
- 2S, 7.4V Lipo stick battery or 7.2V NiMH battery
- Peak detection battery charger
- Retaining Ring Pliers
- Polycarbonate specific paint
- Thread Lock (AE #1596)
- Pinion gear, size to be determined by type and wind of motor you use

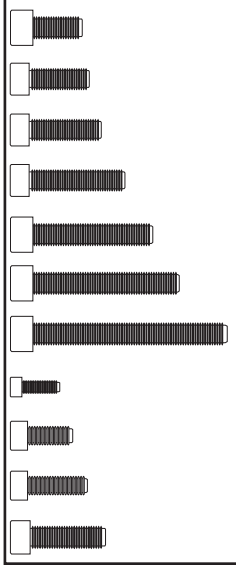
Tools included:
- Allen wrenches (.035", .050", 1/16", 3/32")
- Shock building tool

:: Other Helpful Items

- Silicone Shock Fluid (Refer to website for complete listings)
- Tire Adhesive (AE #1597)
- Body Scissors (AE #1737)
- Reamer / Hole Punch (AE #1499)
- Shock Pliers (AE #1681)
- Green Slime shock lube (AE #1105)
- Calipers or a Precision Ruler
- Wire Cutters / Hobby Knife
- Needle Nose Pliers
- Soldering Iron

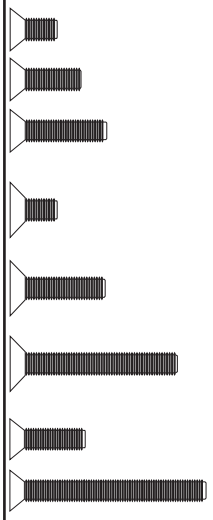
:: Hardware - 1:1 Scale View

Cap Head (shcs)



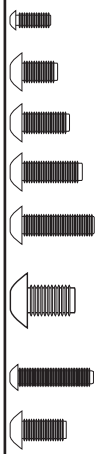
4-40 x 1/4"
4-40 x 5/16"
4-40 x 3/8"
4-40 x 1/2"
4-40 x 5/8"
4-40 x 3/4"
4-40 x 1"
1.6x5mm (91611)
3x6mm (25658)
3x8mm (89223)
3x10mm (25713)

Flat Head (fhcs)



4-40 x 1/4"
4-40 x 3/8"
4-40 x 1/2"
8-32 x 1/4" (6316)
8-32 x 1/2" (6316)
8-32 x 7/8" (6316)
3x10mm (25202)
3x26mm (89243)

Button Head (bhcs)



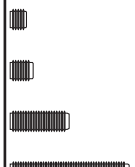
0-80 x 3/16"
4-40 x 3/16"
4-40 x 1/4"
4-40 x 5/16"
4-40 x 3/8"
8-32 x 1/4"
2.5x10mm (31522)
3x6mm (31531)

LP Socket Head (shcs)



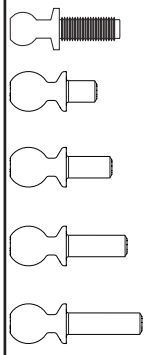
3x8mm (41096)

Set Screws



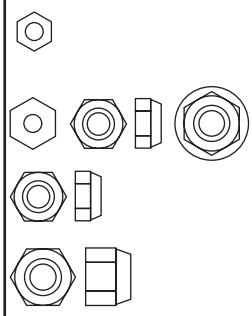
4-40x3/32"
4-40x1/8"
4-40x5/16"
8-32x5/8"

Ballstuds



Silver 8mm Long (31284)
HD 4mm (91451)
Titanium HD 42mm (91750)
HD 6mm (91047)
Titanium HD 6mm (91751)
HD 8mm (91048)
Titanium HD 8mm (91752)
HD 10mm (91049)
Titanium HD 10mm (91753)

Nuts (lock/plain)



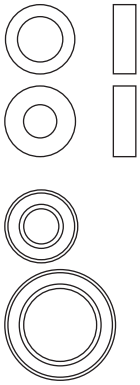
4-40 Small Pattern Plain Nut
4-40 Nuts
5-40 Locknut
8-32 Steel Locknut
M3 Nut (91477)
M3 Alum. Locknut, Blue (31550)
M3 Locknut, Black (25215)
M4 Serrated w/Flange (91738)
FT M4 Locknuts w/Flange, M4 Locknut (31551)

Clips



E-clip 1/8" (6299)

Bearings



3/16 x 3/8 x 1/8" (3977)
3/16 x 5/16 x 1/8" (6909)
5x10x4mm (91560)
10x15x4mm (91563)

Shims and Washers



.030 Nylon Spacer (4187)
#4 Washer OR Alum. Washer, 1mm (31385)
5mm x 9.5mm 0.17mm
#8 Aluminum Thick Washer

Notes:

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(Bag C)

7.....Transmission Build
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(Bag I)

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(Bag J)

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:: 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 hardare with the correct drawing until you find the exact size.

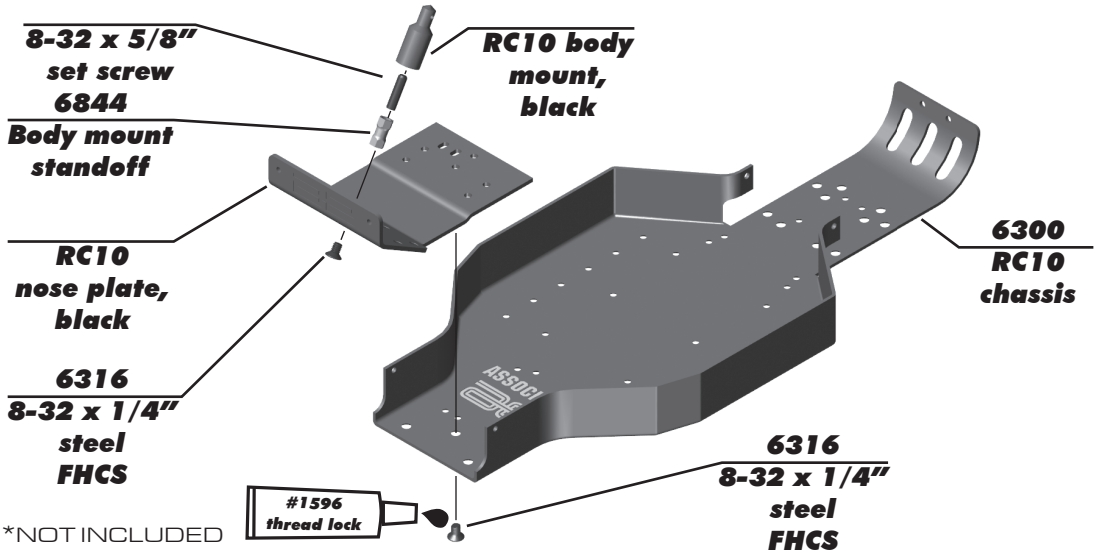
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630

ASSOCIATED ELECTRICS Since 1984

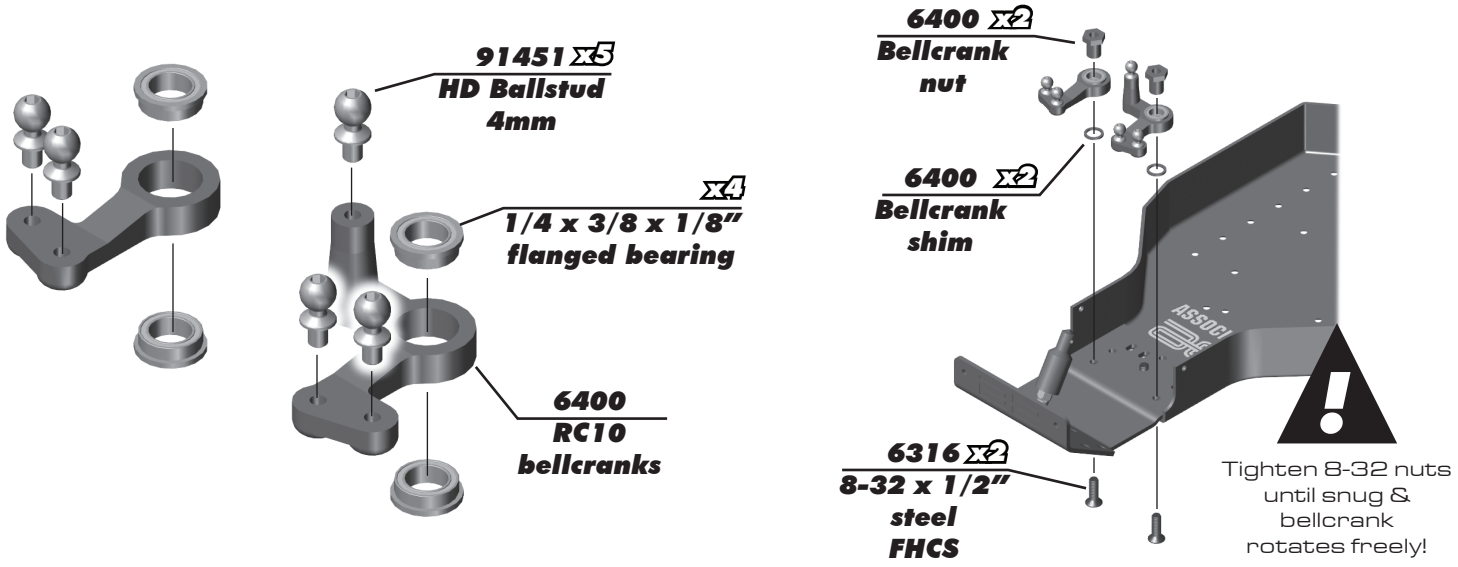
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

http://www.AssociatedElectrics.com • • http://www.instagram.com/teamassociatedrc/ • http://www.facebook.com/TeamAssociated/

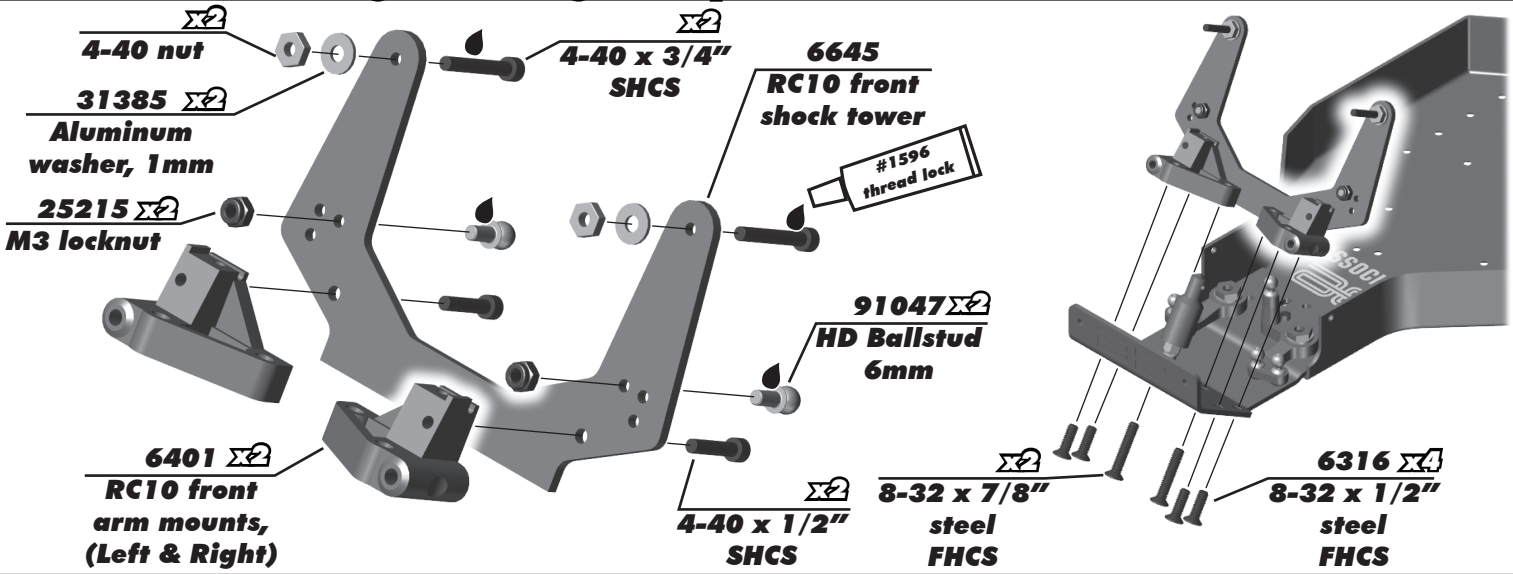
:: Nose Plate / Steering Build - Bag A - Step 1



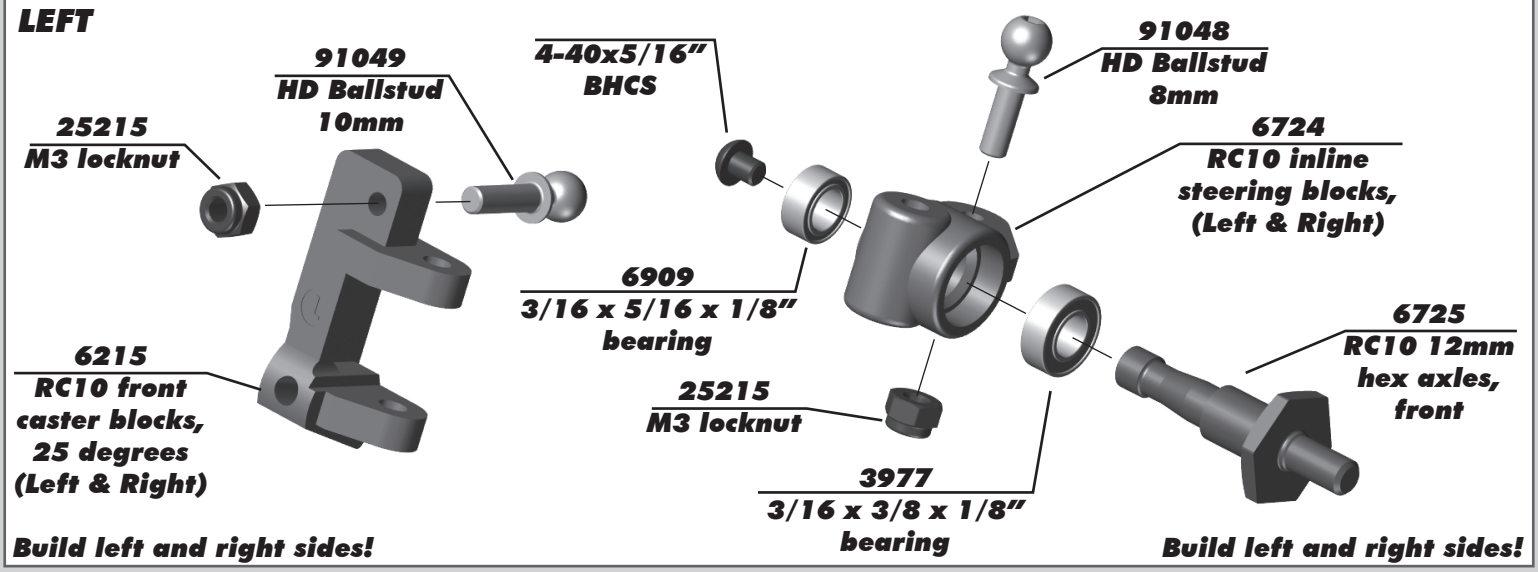
:: Nose Plate / Steering Build - Bag A - Step 2



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



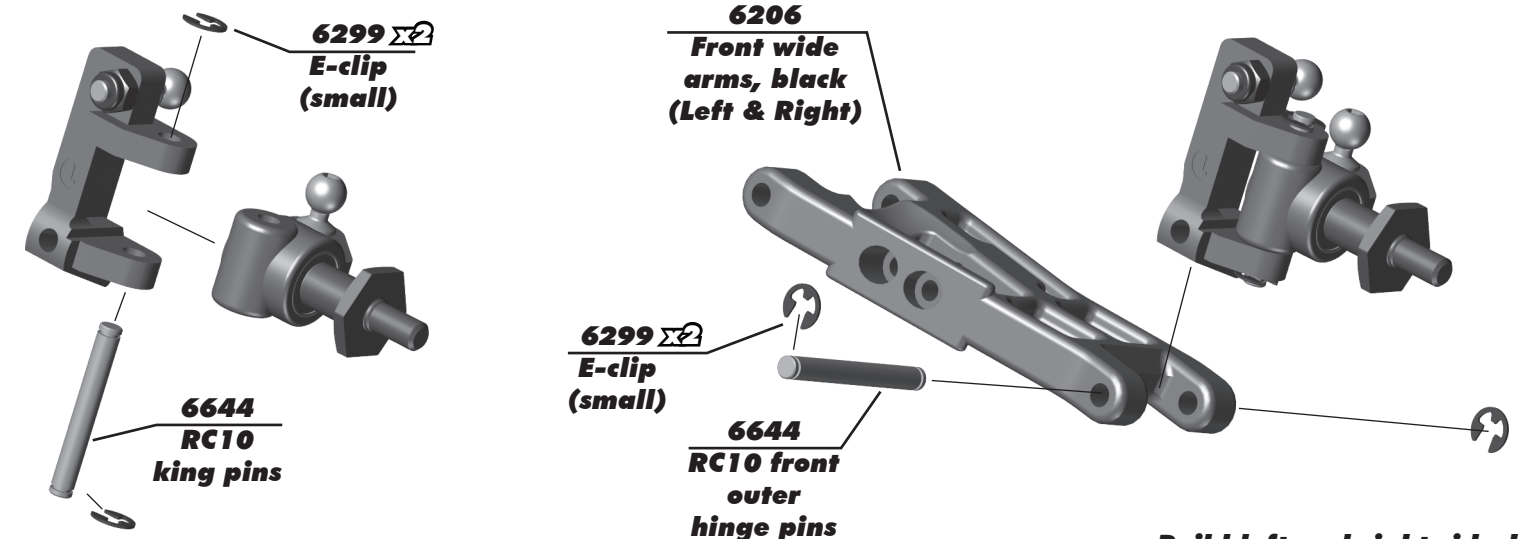
:: Front Suspension Build - Bag B - Step 1



Build left and right sides!

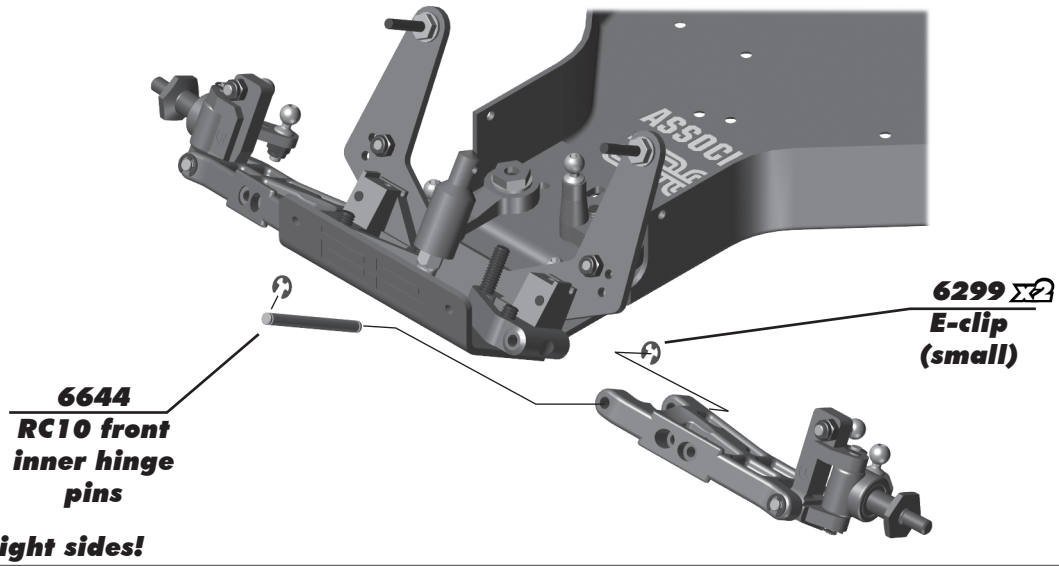
Build left and right sides!

:: Front Suspension Build - Bag B - Step 2



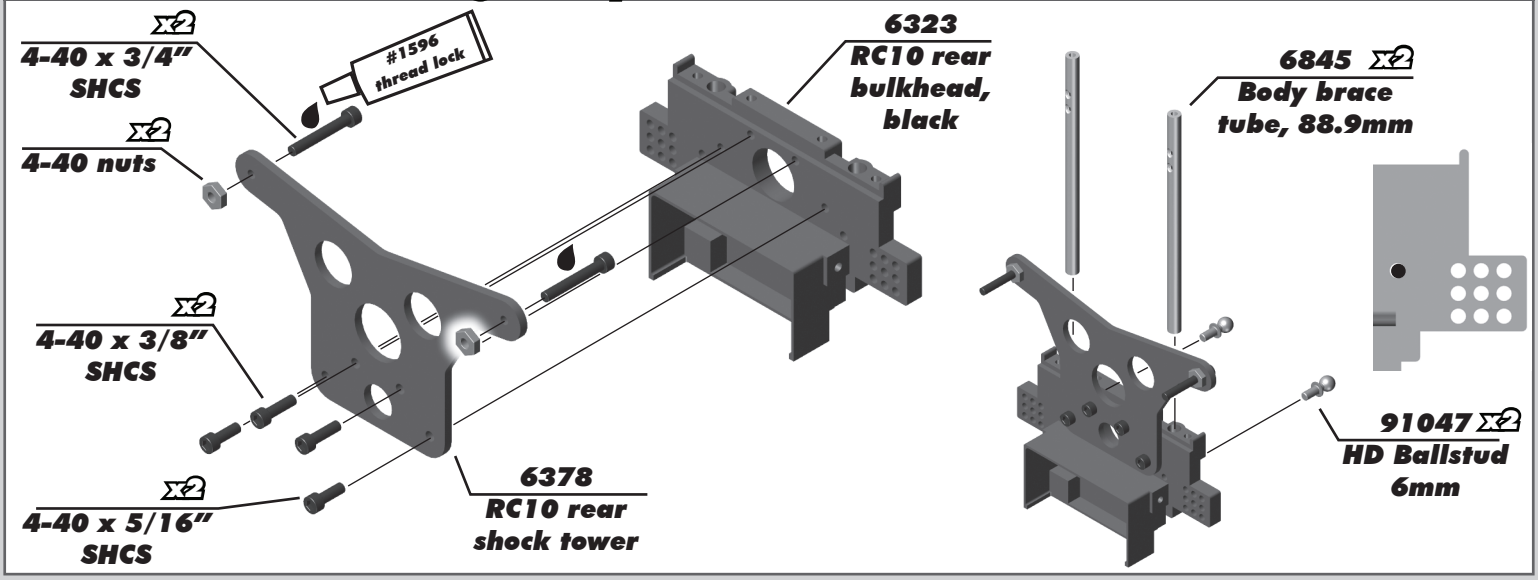
Build left and right sides!

:: Front Suspension Build - Bag B - Step 3

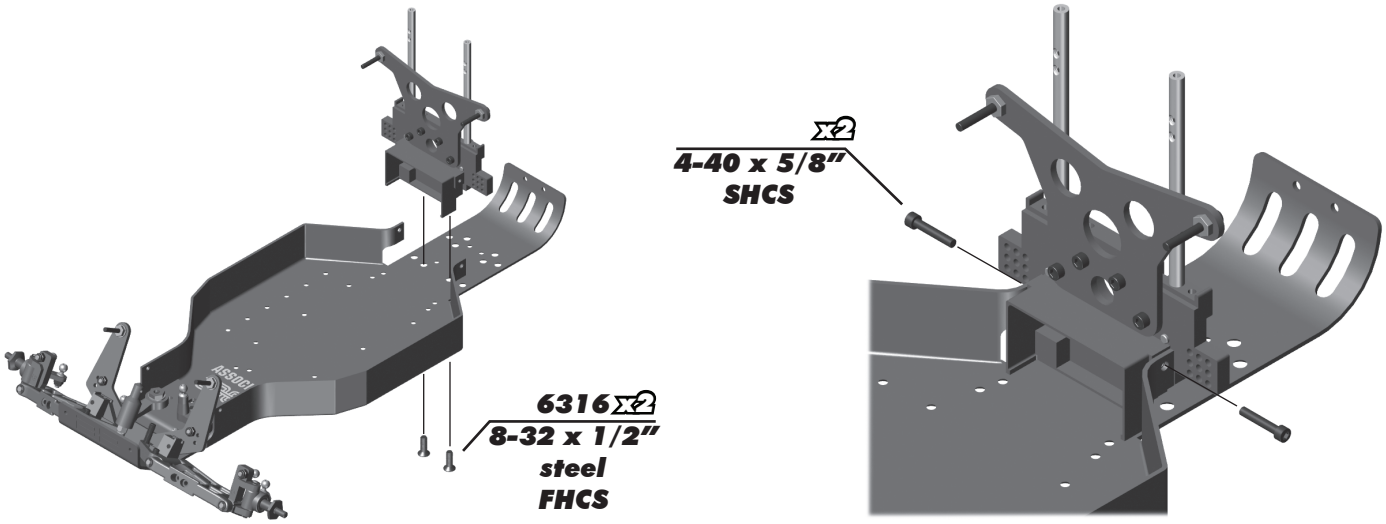


Build left and right sides!

:: Rear Bulkhead Build - Bag C - Step 1

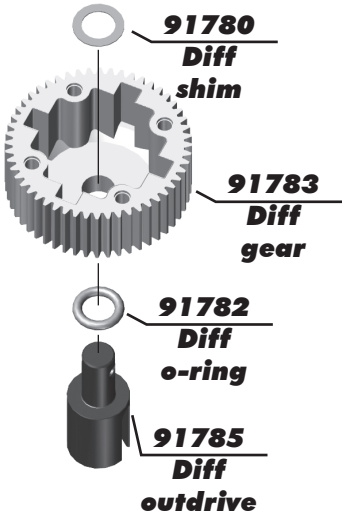


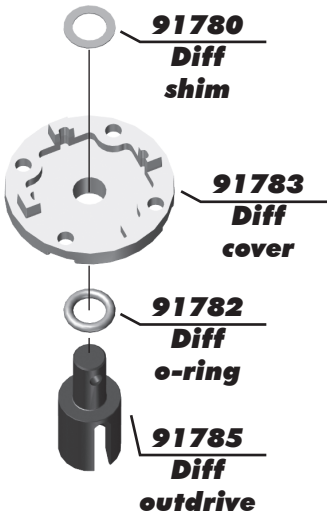
:: Rear Bulkhead Build - Bag C - Step 2



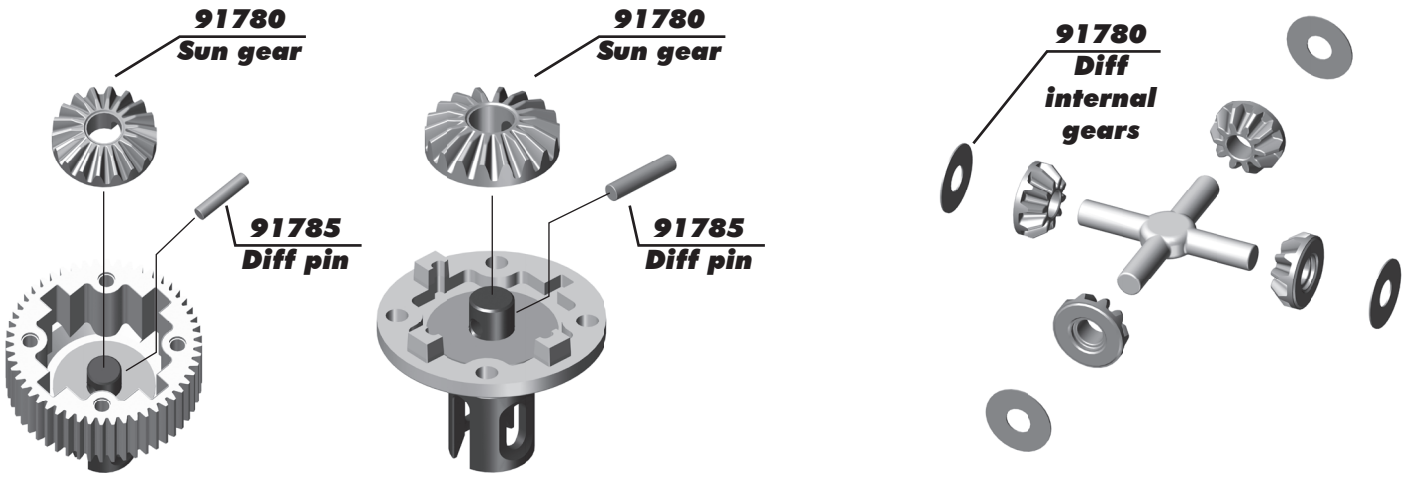
:: Transmission Build - Bag D - Step 1

The kit comes with both a diff locker and gear diff components. The diff locker is an optional part for tuning.

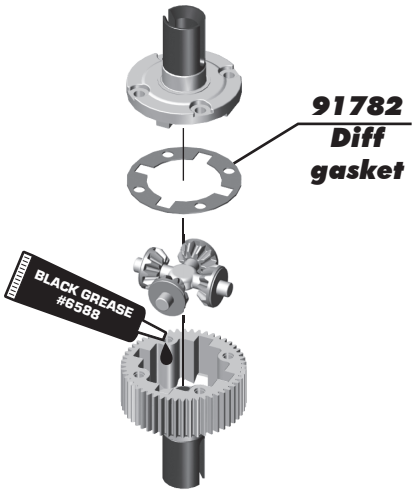




:: Transmission Build - Bag D - Step 2



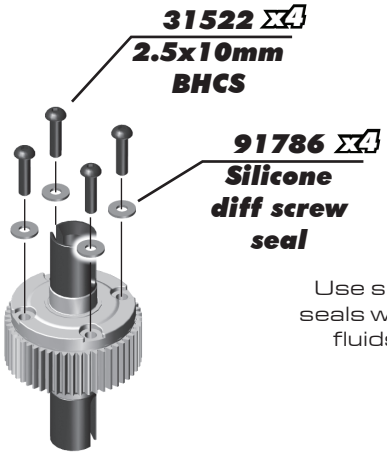
:: Transmission Build - Bag D - Step 3



Racers Tip:

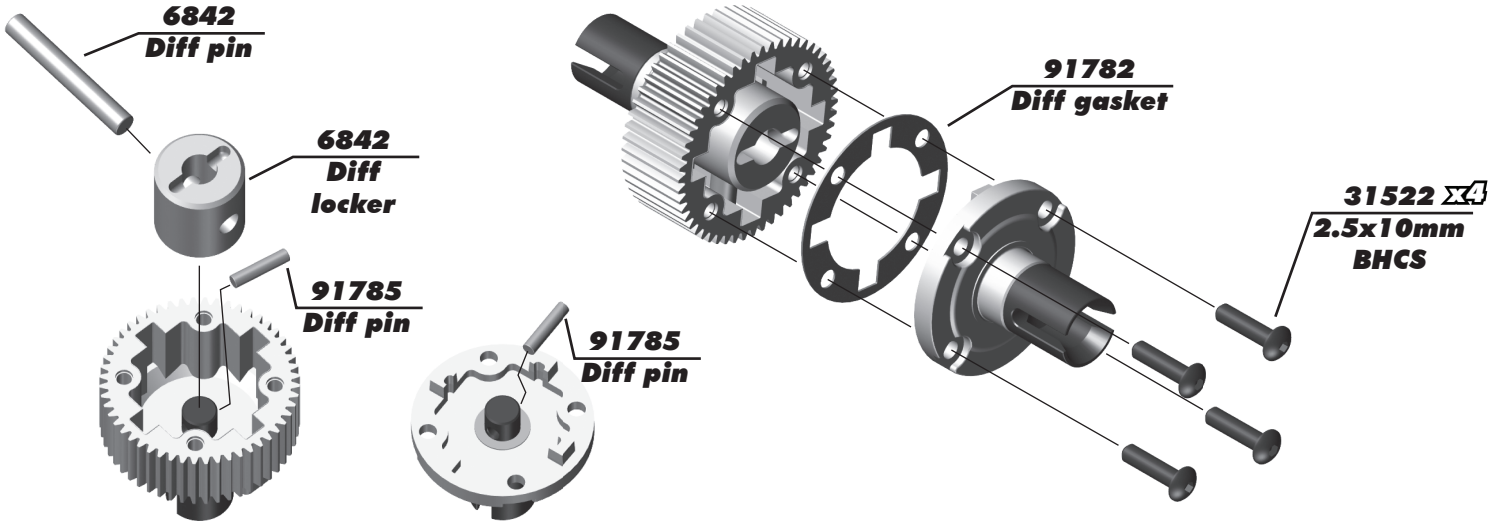
Gear Diff:
Grease or 1000cst fluid for low grip or bumpy surfaces.
5000-7000 recommended on most outdoor dirt oval surfaces.

Locked Diff:
Recommended on high grip surfaces.

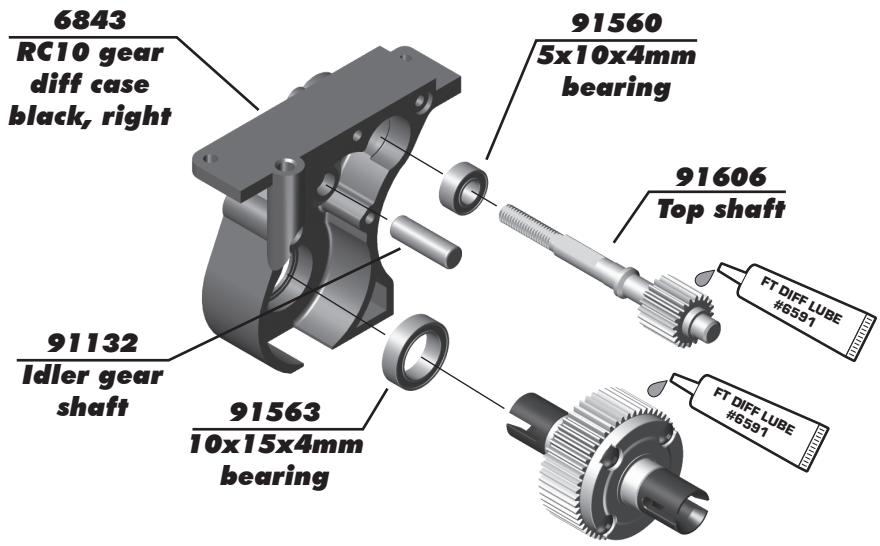


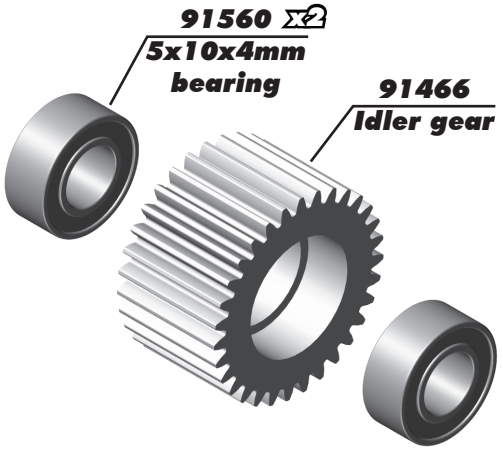
Use silicone diff screw seals when using silicone fluids in differential.

:: Transmission Build - Bag D - Step 4 - OPTIONAL LOCKED DIFF BUILD

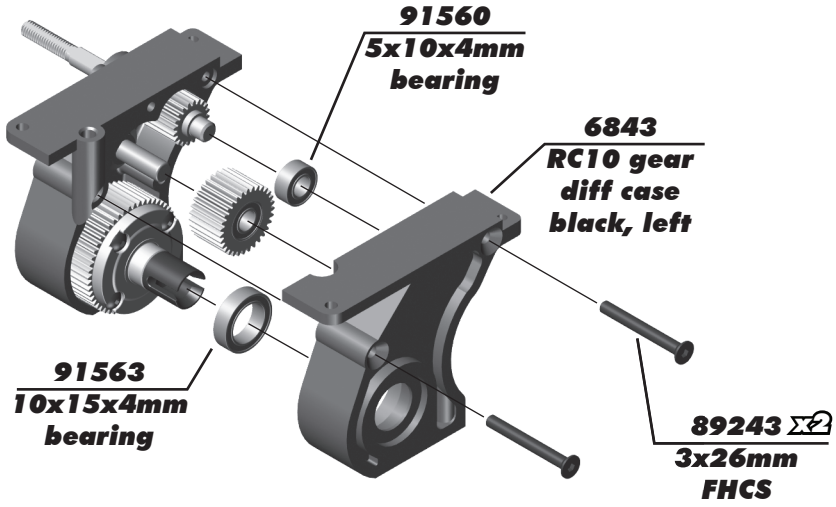


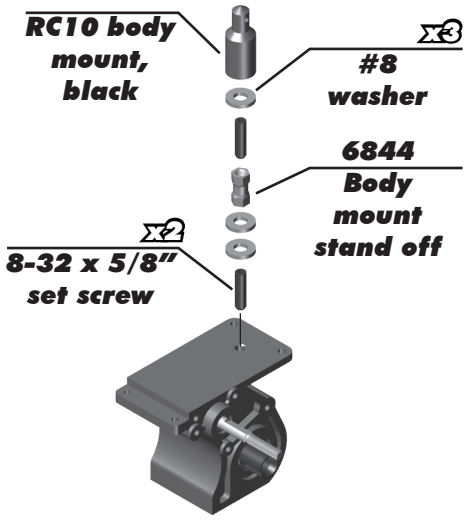
:: Transmission Build - Bag D - Step 5



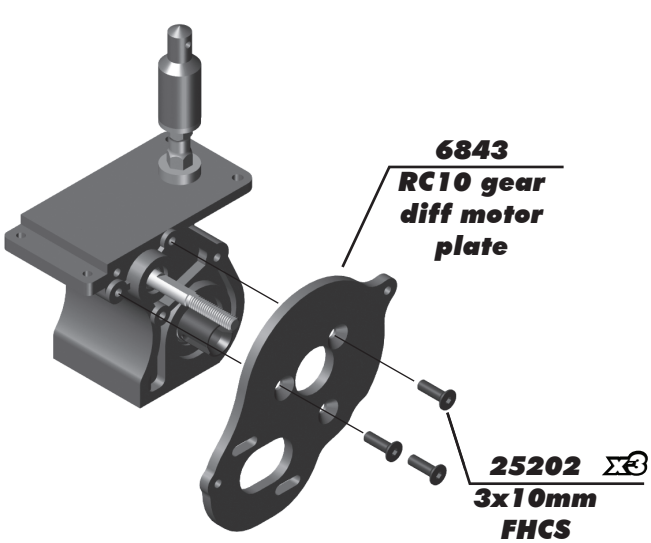


:: Transmission Build - Bag D - Step 6

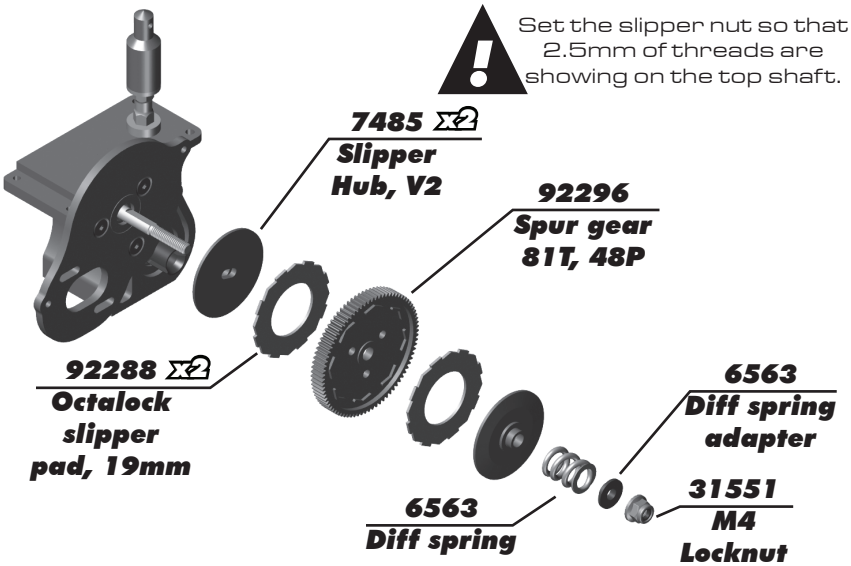




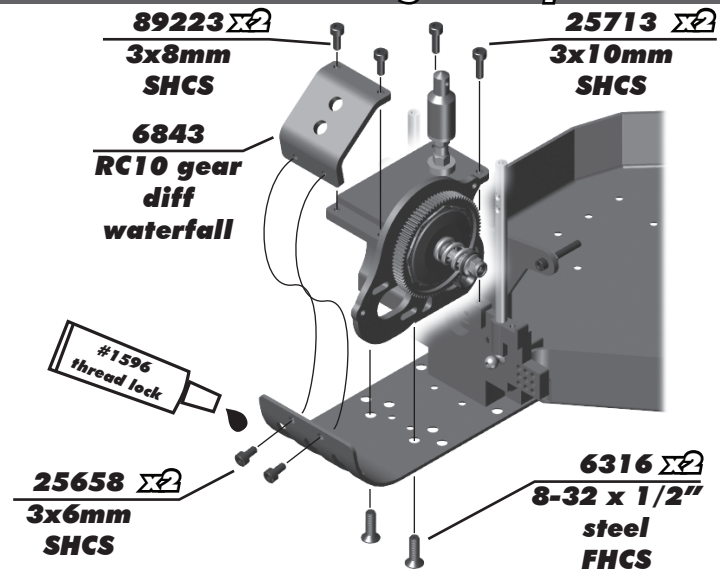
:: Transmission Build - Bag D - Step 7

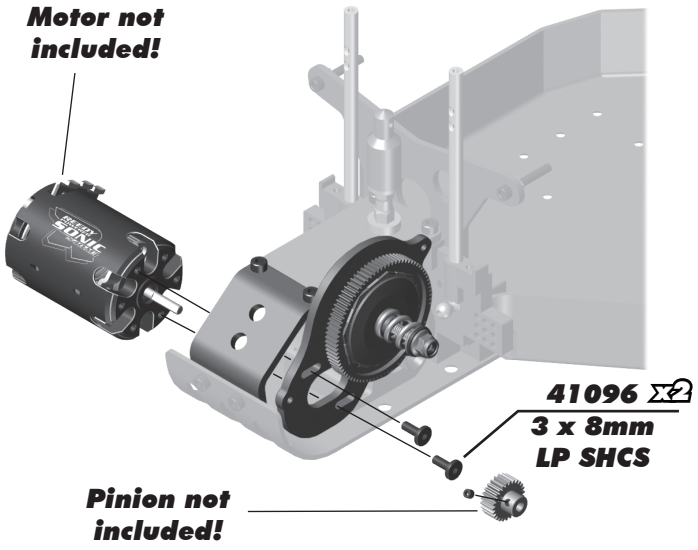


Set the slipper nut so that 2.5mm of threads are showing on the top shaft.



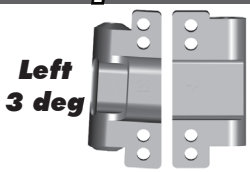
:: Transmission Build - Bag D - Step 8

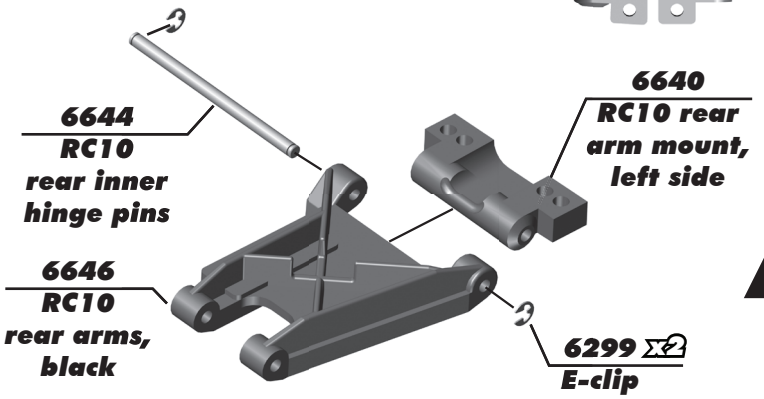




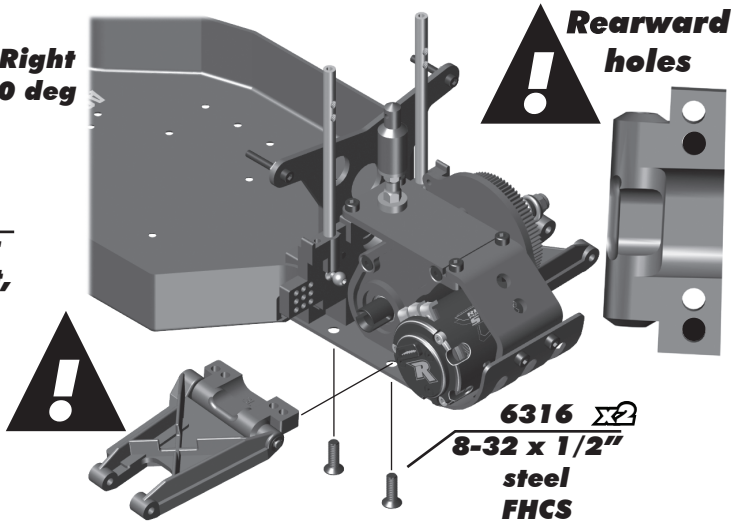
:: Rear Suspension Build - Bag E - Step 1

Rear arm mounts: The kit comes with all variations of arm mounts
Kit setup:
Left rear = 3 degree toe in
Right rear = 0 degree toe in





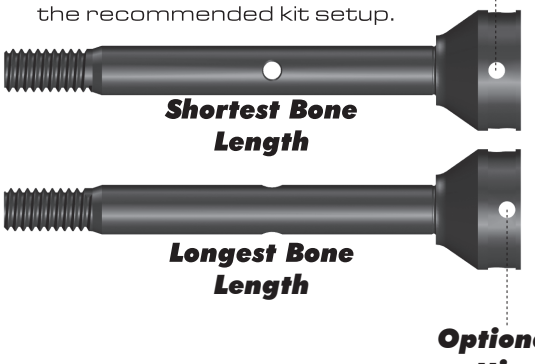
Build left and right sides!



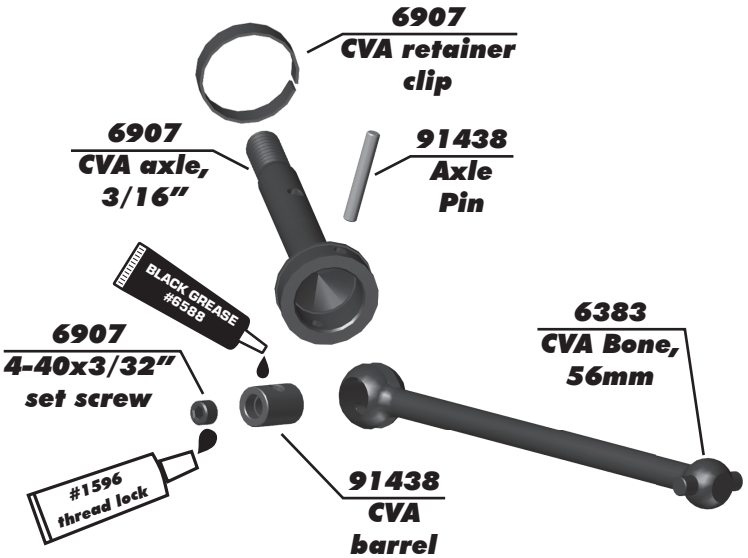
Build left and right sides!

:: Rear Suspension Build - Bag E - Step 2

*Notice! Rear CVA axle has variable CVA pin joint locations.
Use the shorter bone location with the recommended kit setup.

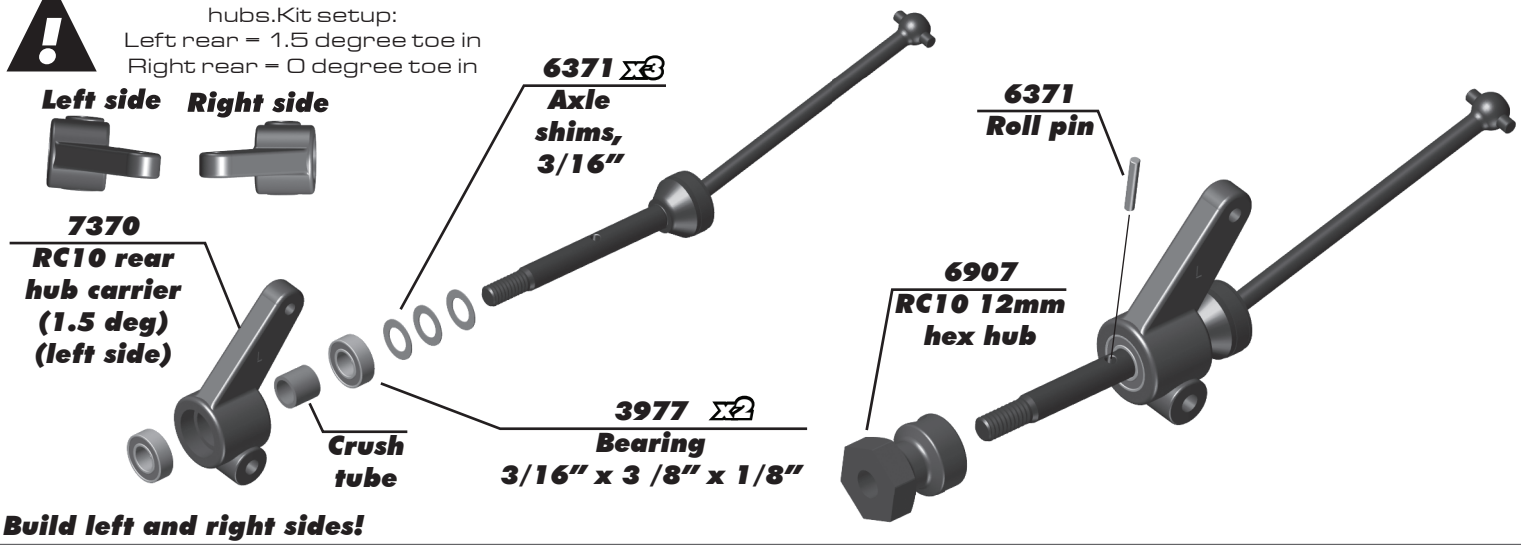


Build left and right sides!



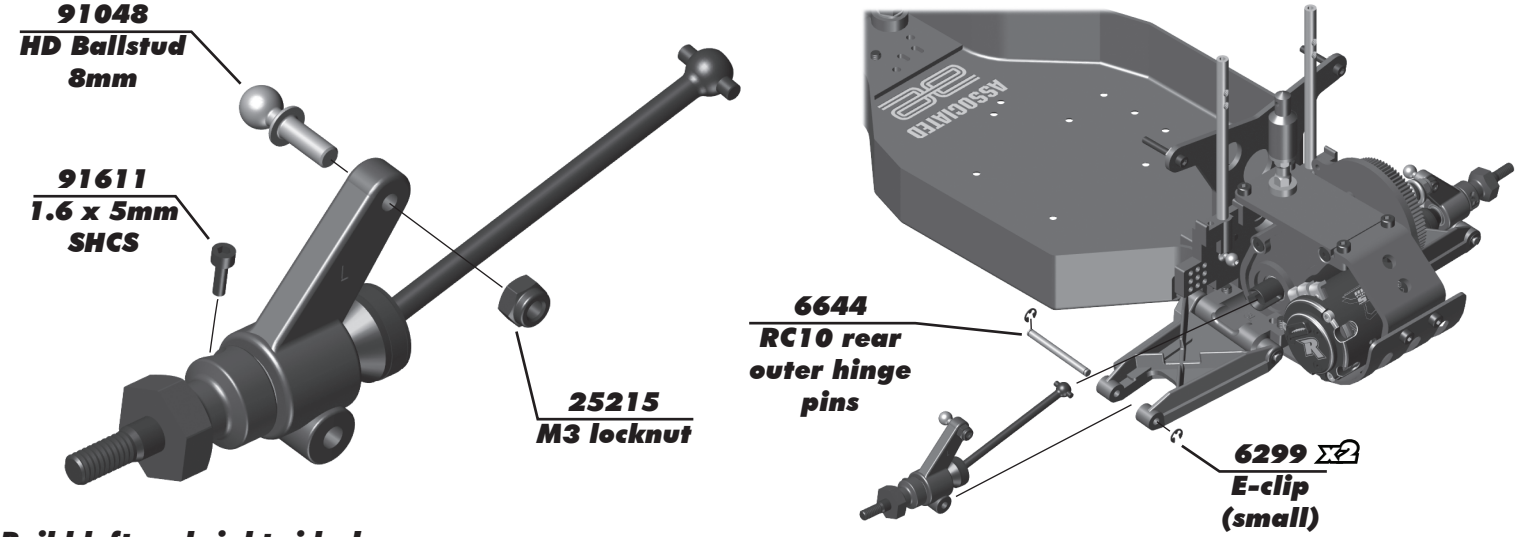
:: Rear Suspension Build - Bag E - Step 3

The kit comes with two different rear hubs.Kit setup:
Left rear = 1.5 degree toe in
Right rear = 0 degree toe in



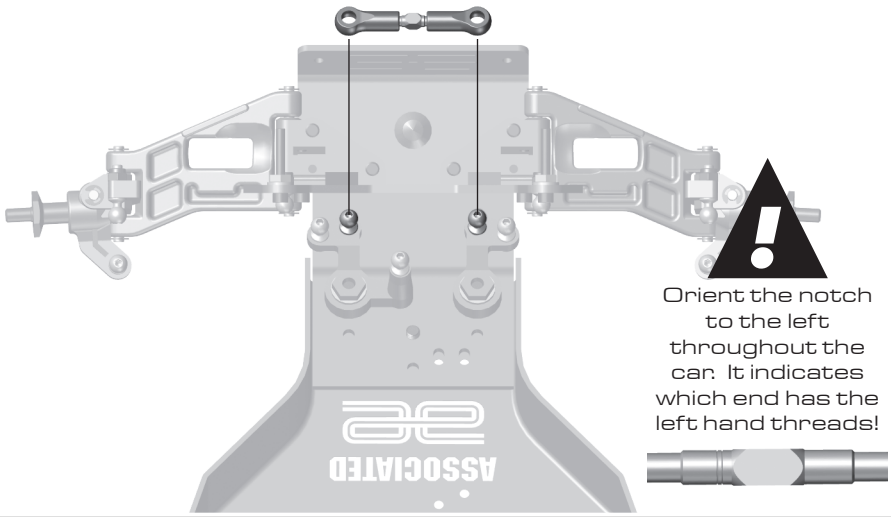
Build left and right sides!

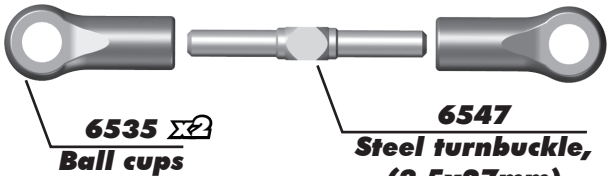
:: Rear Suspension Build - Bag E - Step 4



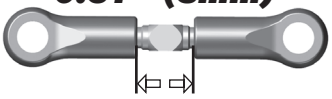
Build left and right sides!

:: Turnbuckles Build - Bag F - Step 1

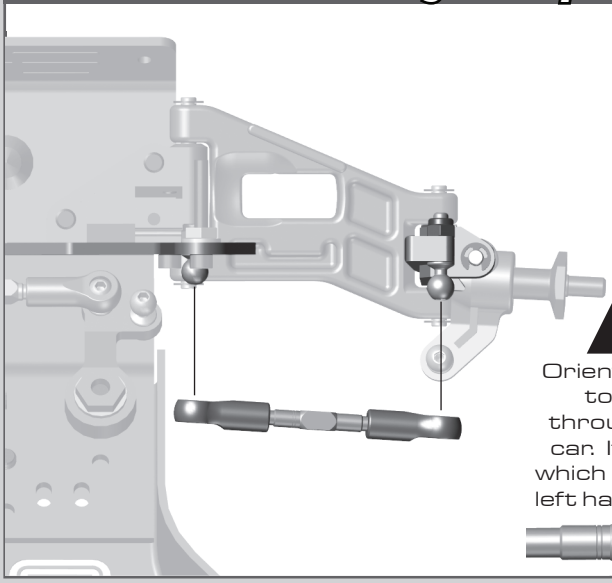




Steering Rack Turnbuckle
0.31" (8mm)



:: Turnbuckles Build - Bag F - Step 2





6535 x2
Ball cups

6547
Steel turnbuckle,
(3.5x38mm)

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



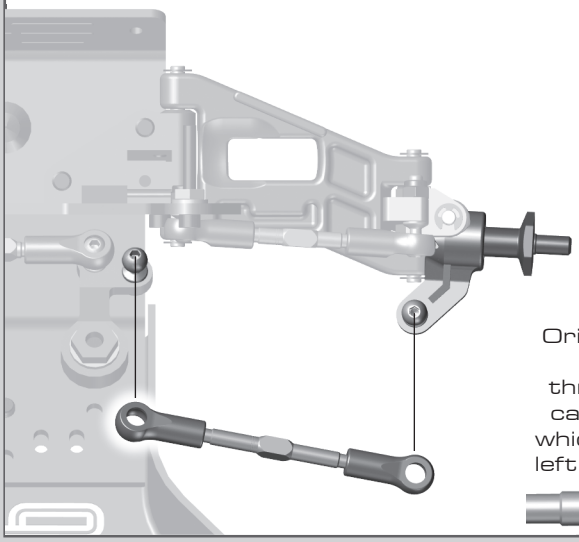
Front Camber Turnbuckle
0.90" (23.00mm)



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 3





6535 x2
Ball cups

6547
Steel turnbuckle,
(3.5x48mm)

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



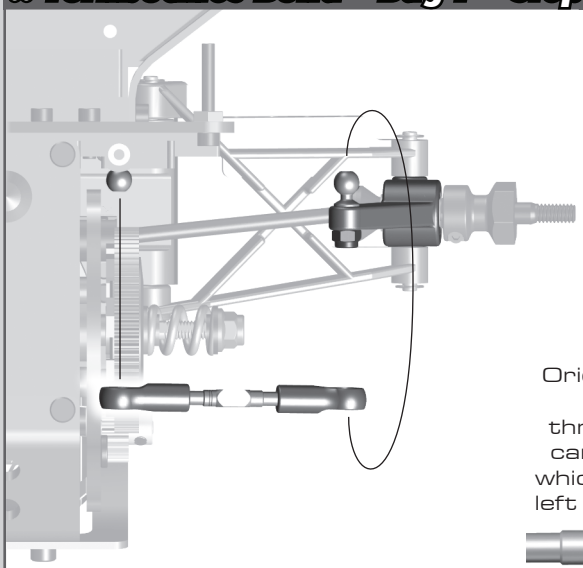
Steering Turnbuckle
1.18" (30.00mm)



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





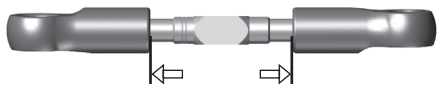
6535 x2
Ball cups

6547
Steel turnbuckle,
(3.5x33mm)

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



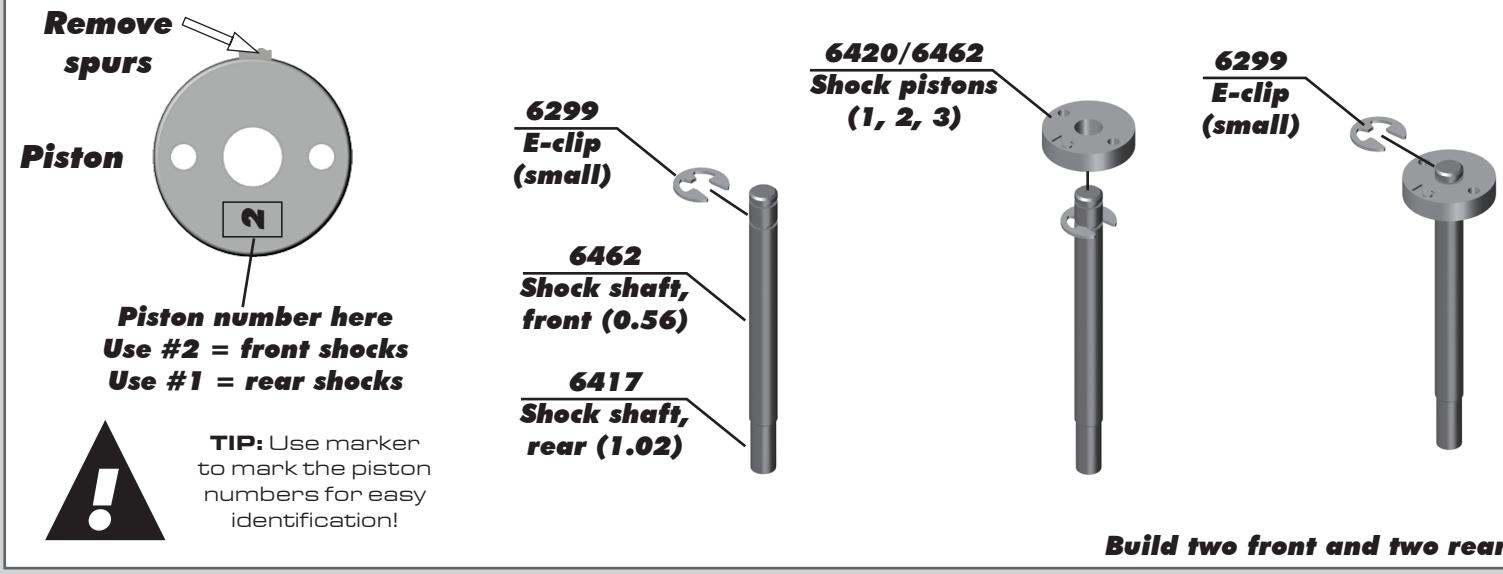
Rear Camber Turnbuckle
0.75" (19mm)



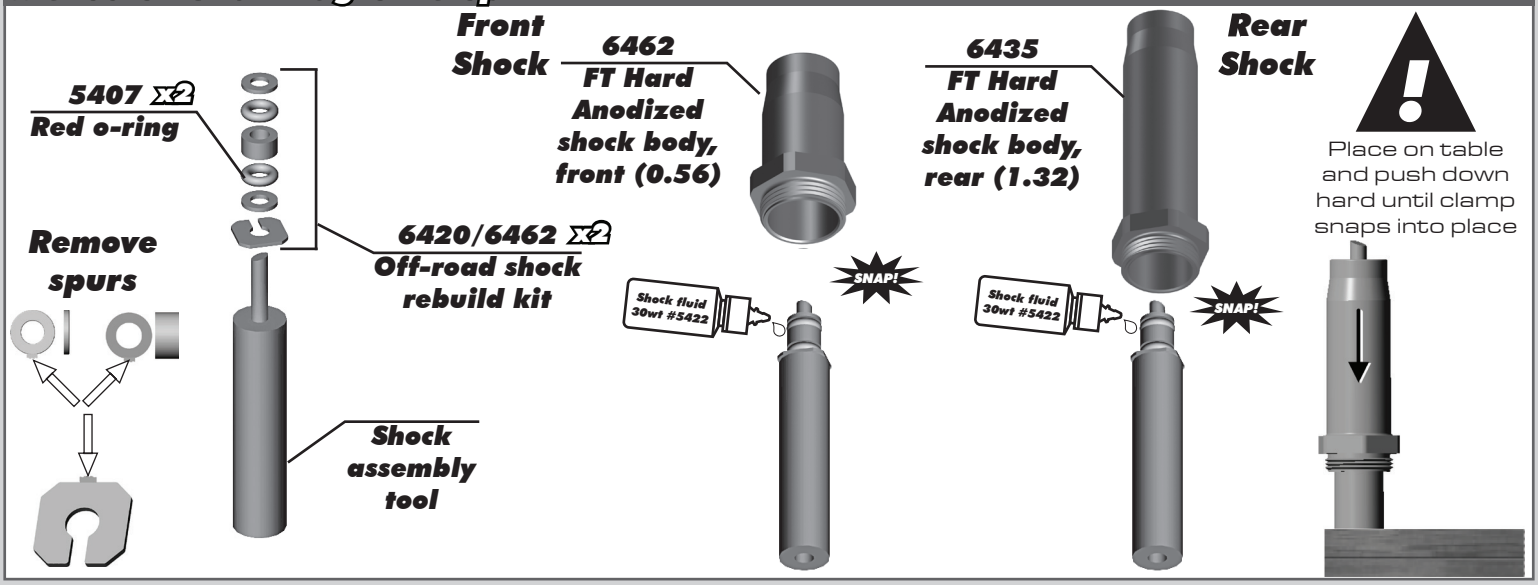
Recommended turnbuckle lengths are approximate. Final recommended settings = 0 degree Front Toe in and -2 Degree Camber Front and Rear.

Build left and right sides!

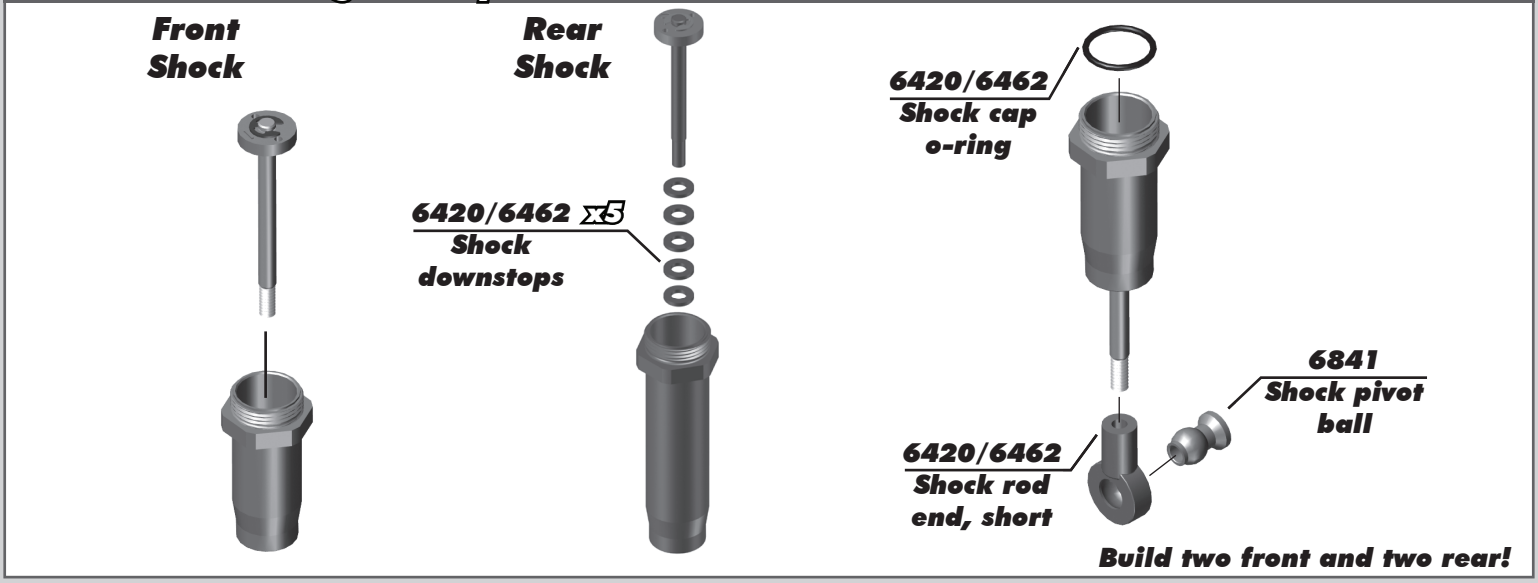
:: Shocks Build - Bag G - Step 1



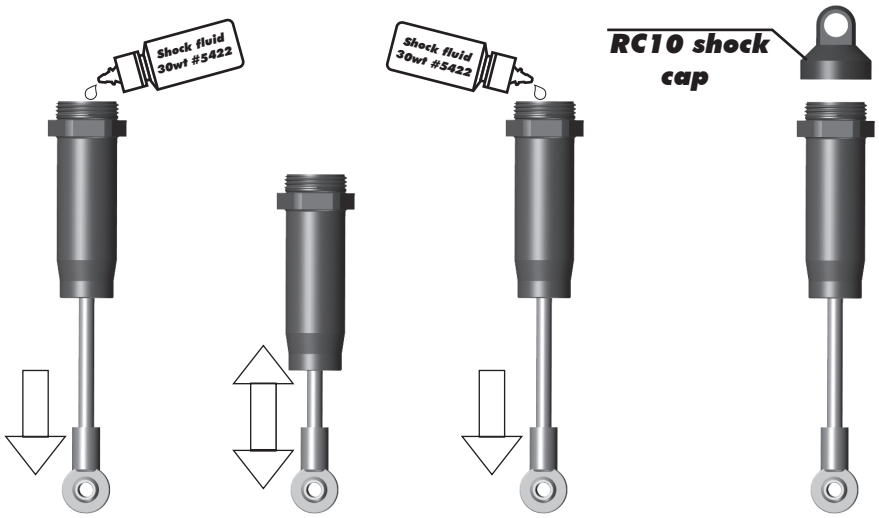
:: Shocks Build - Bag G - Step 2



:: Shocks Build - Bag G - Step 3

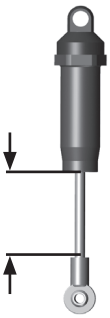


:: Shocks Build - Bag G - Step 4



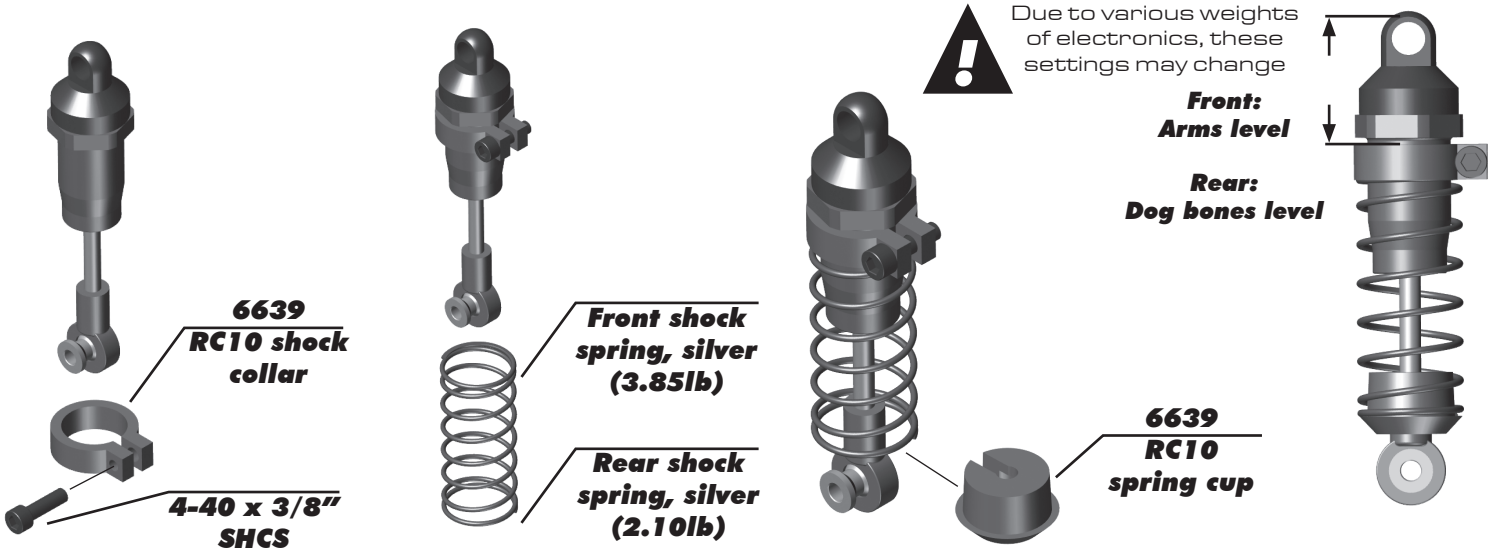
* Shock Bleeding Steps:

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 thru11.

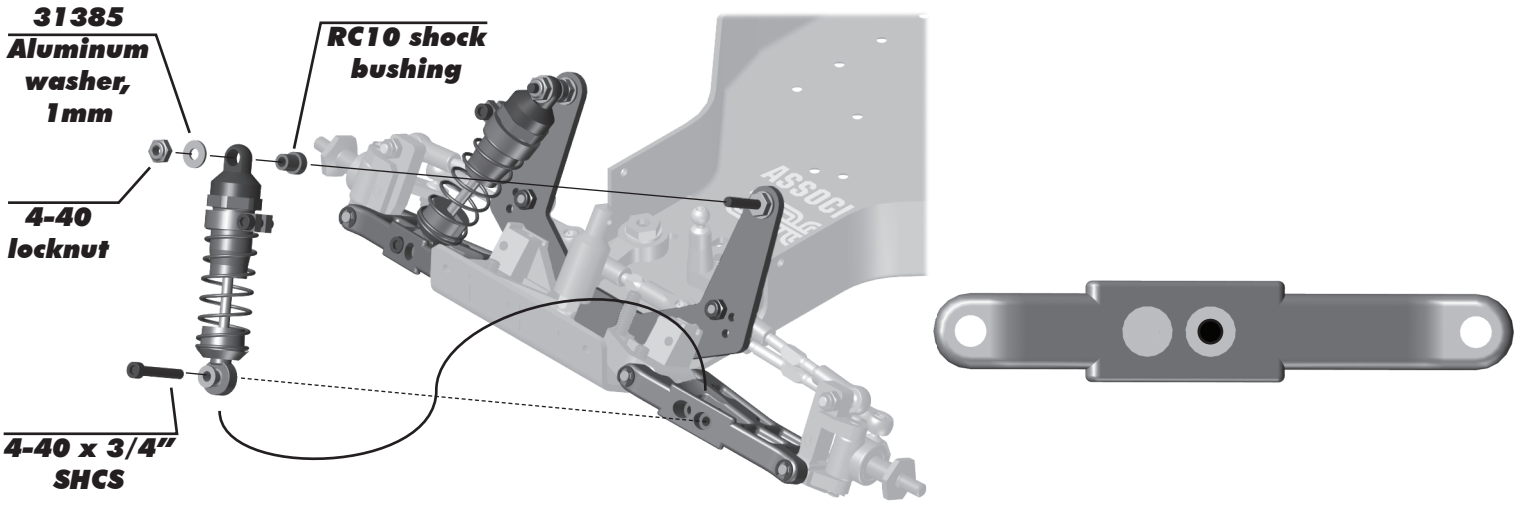


Stroke
Front: 16mm
Rear: 21mm

:: Shocks Build - Bag G - Step 5

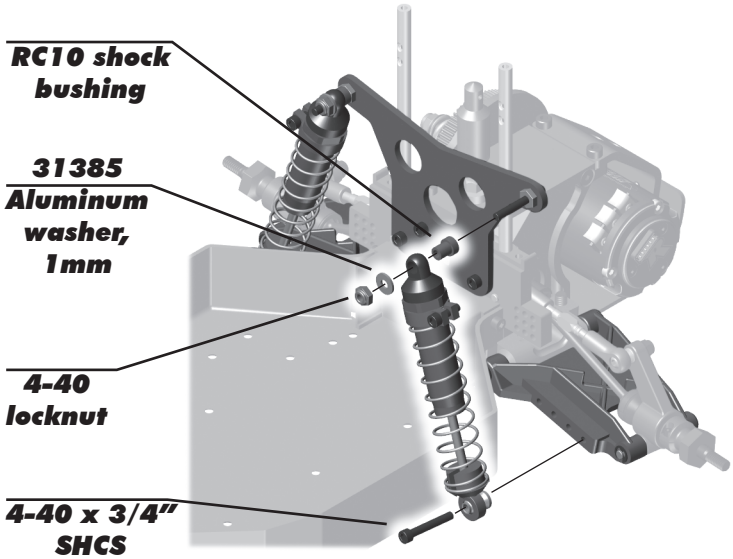


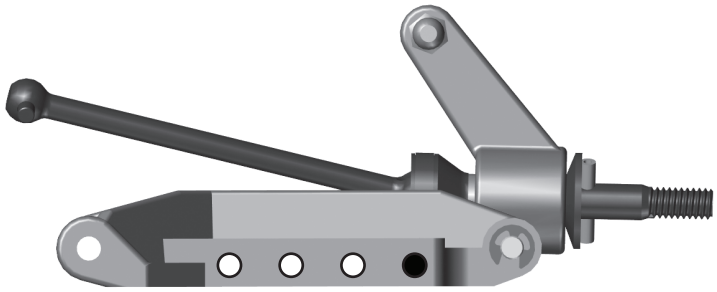
:: Shocks Build - Bag G - Step 6



Build left and right sides!

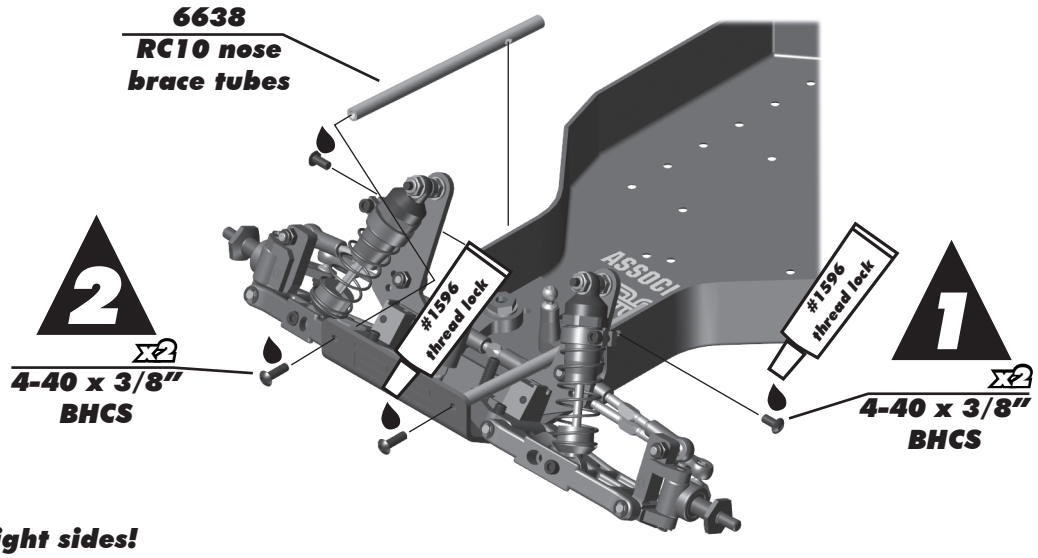
:: Shocks Build - Bag G - Step 7





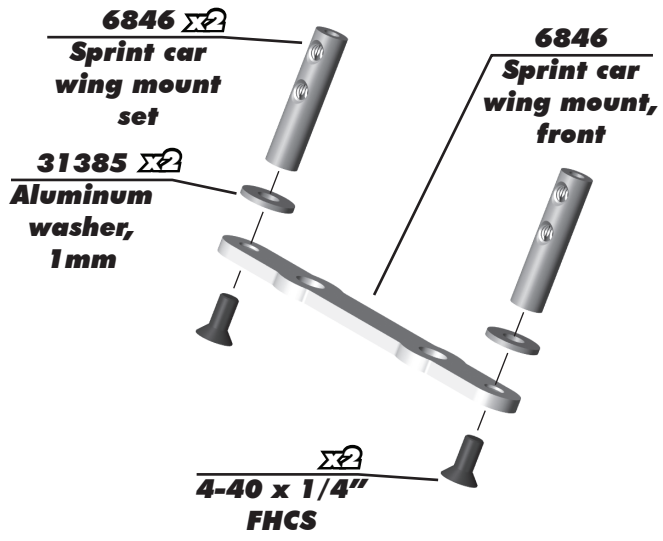
Build left and right sides!

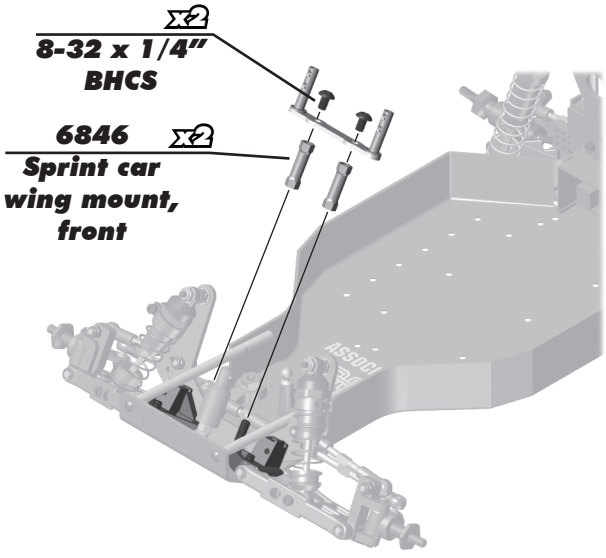
:: Electronics Build - Bag H - Step 1



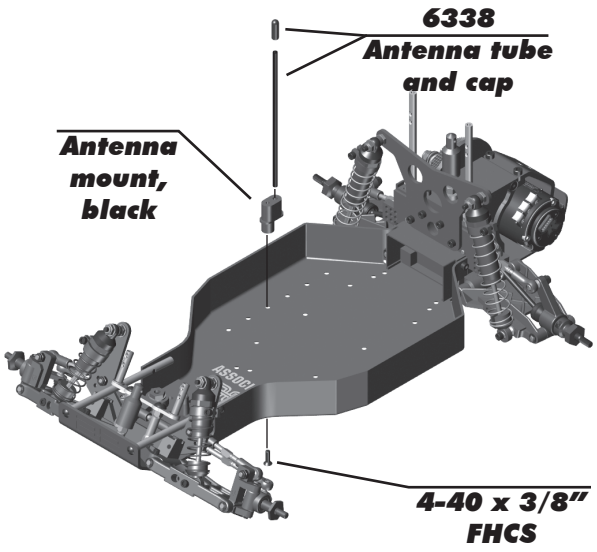
Build left and right sides!

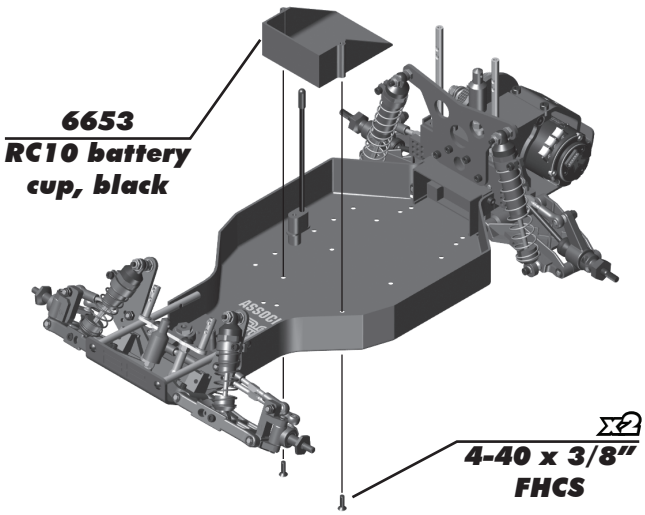
:: Electronics Build - Bag H - Step 2



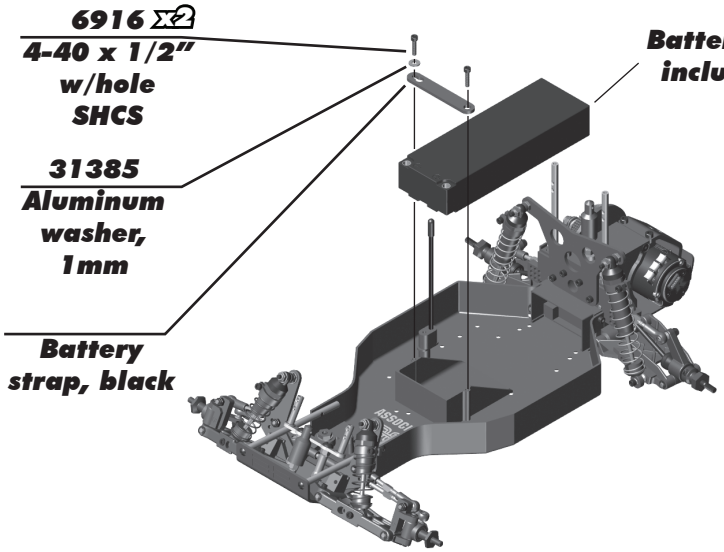


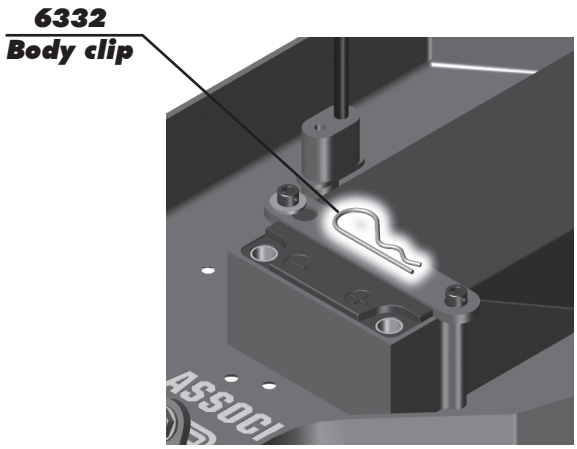
:: Electronics Build - Bag H - Step 3



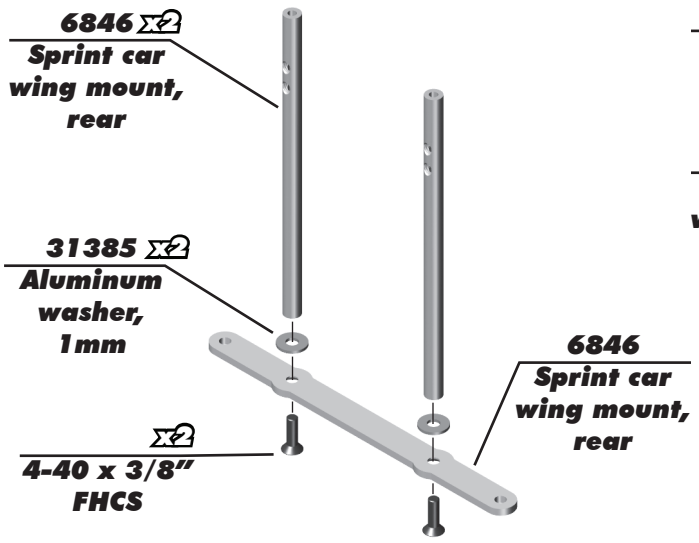


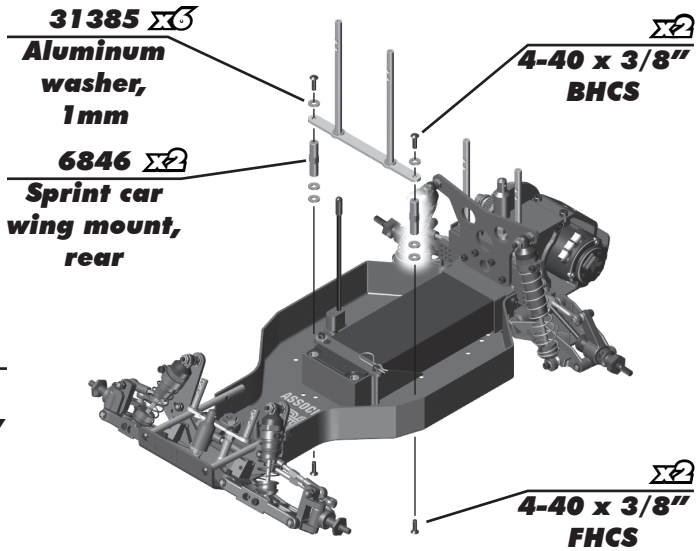
:: Electronics Build - Bag H - Step 4



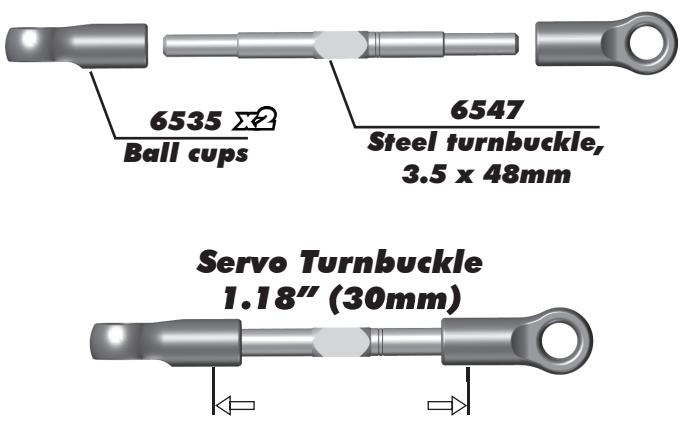


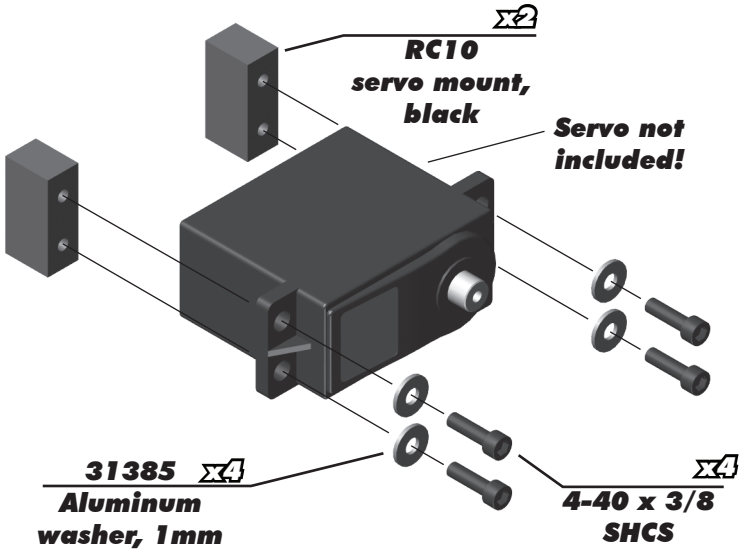
:: Electronics Build - Bag H - Step 5



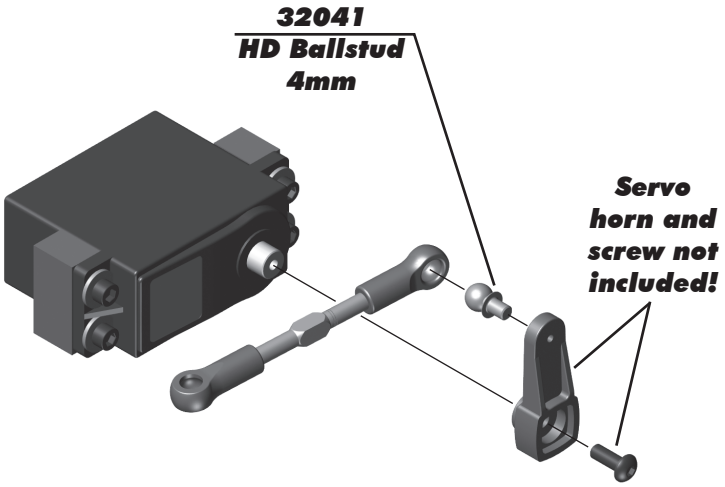


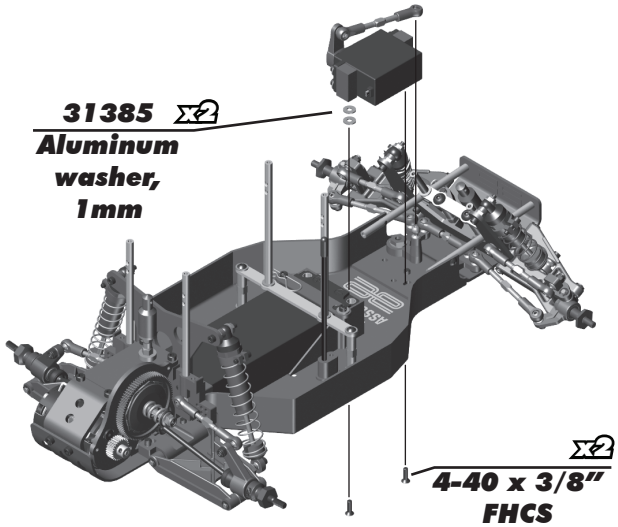
:: Servo Build - Bag I - Step 1



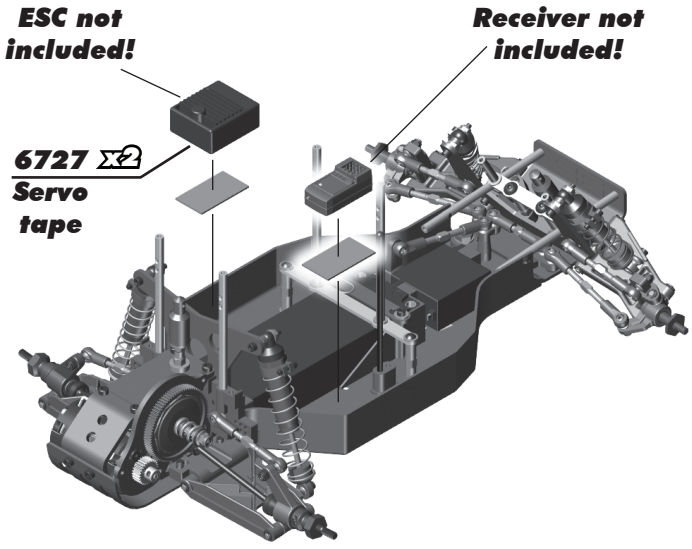


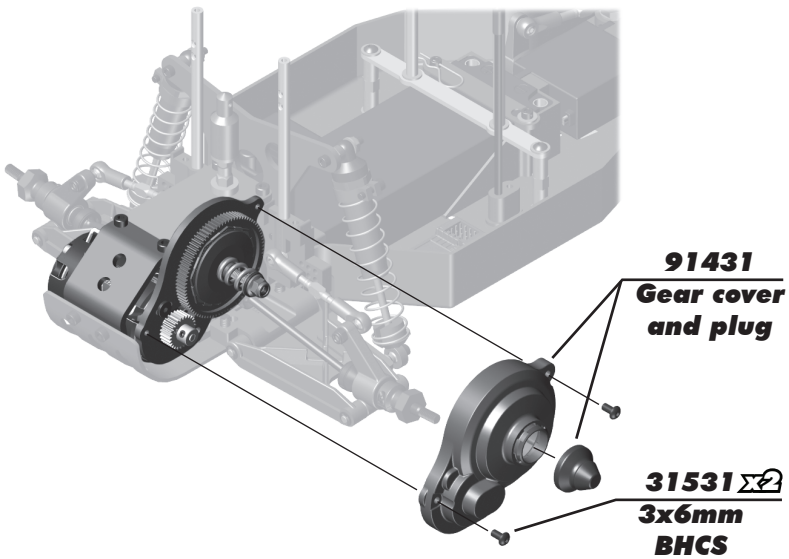
:: Servo Build - Bag I - Step 2





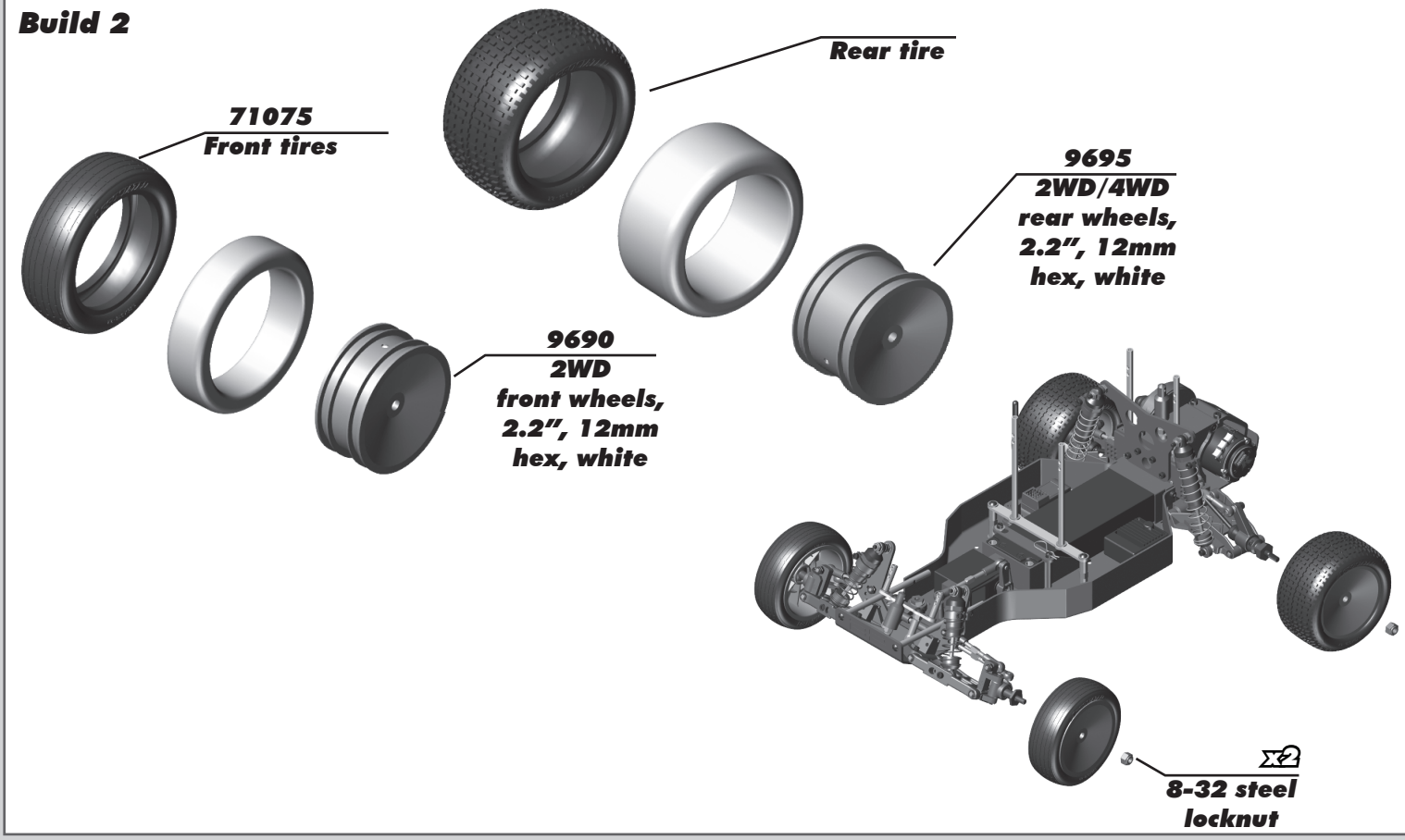
:: Wheels / Tires and Body - Bag J - Step 1





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

Build 2



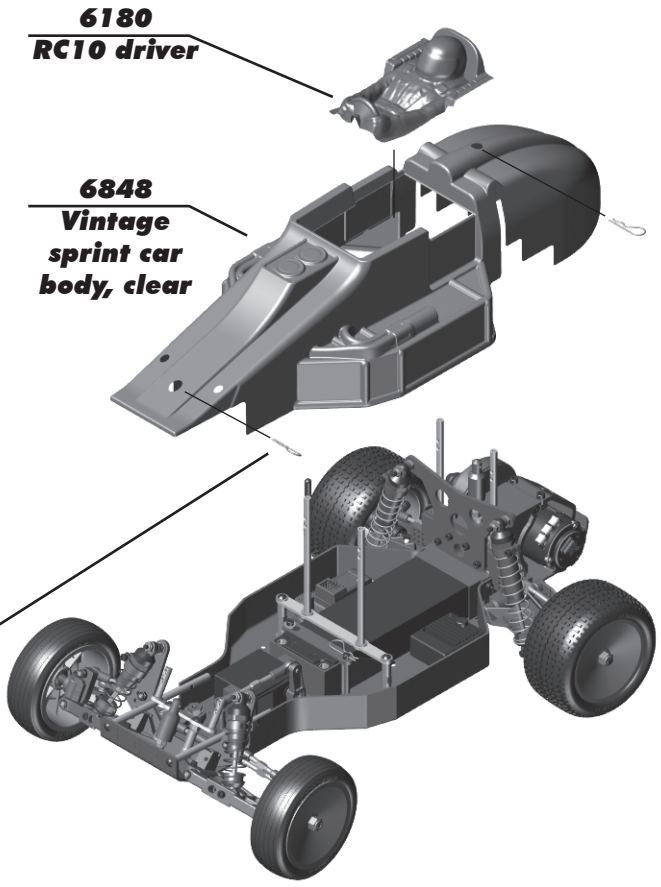
:: Wheels / Tires and Body - Bag J - Step 3

Painting Tips:

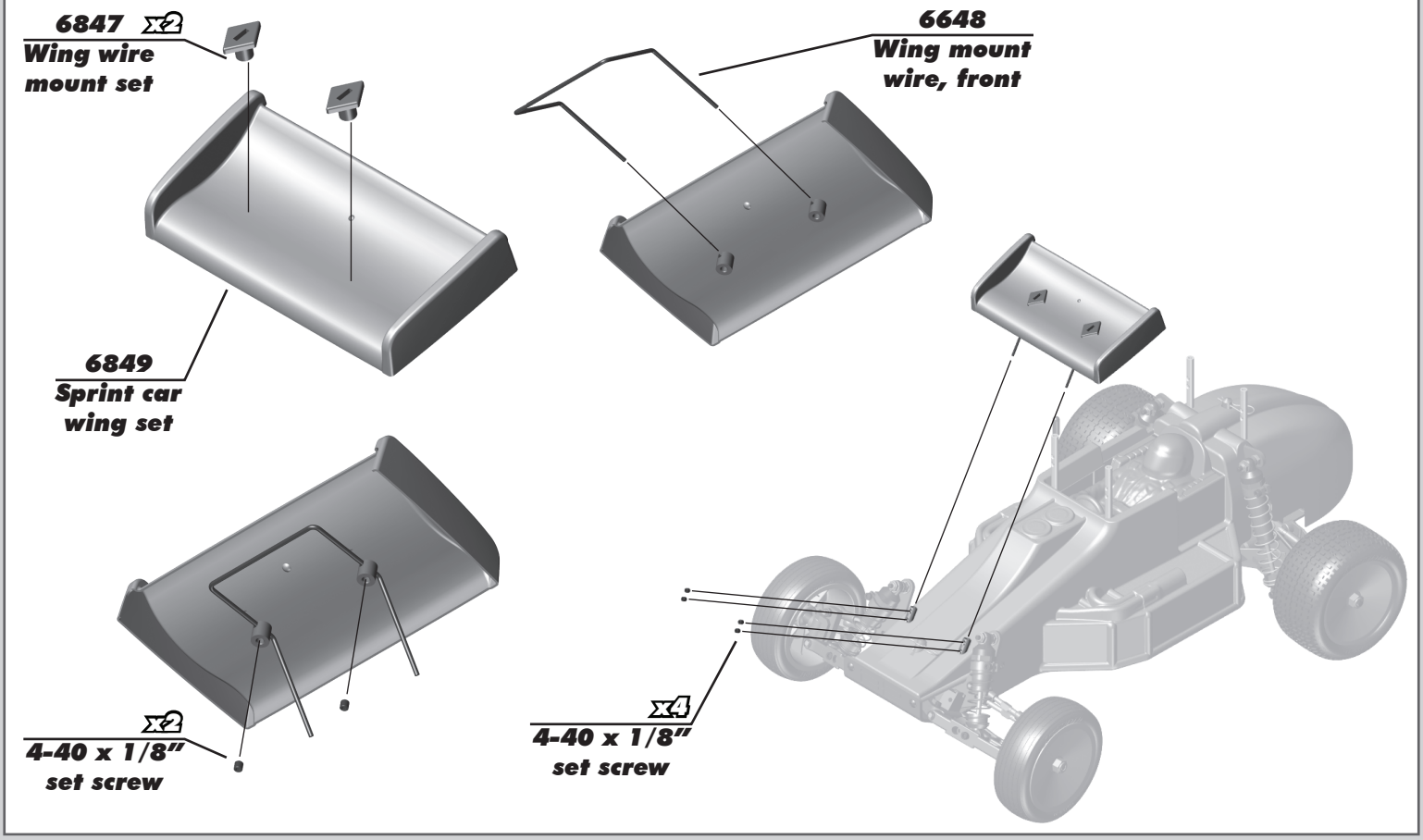
Your RC10 Kit comes with a clear polycarbonate body and wing. You will need to prep the body and wing before you can paint them. Wash the inside thoroughly with warm water and liquid detergent. Dry the body and wing using a clean, soft, lint-free cloth. Use high quality masking tape to make masks for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

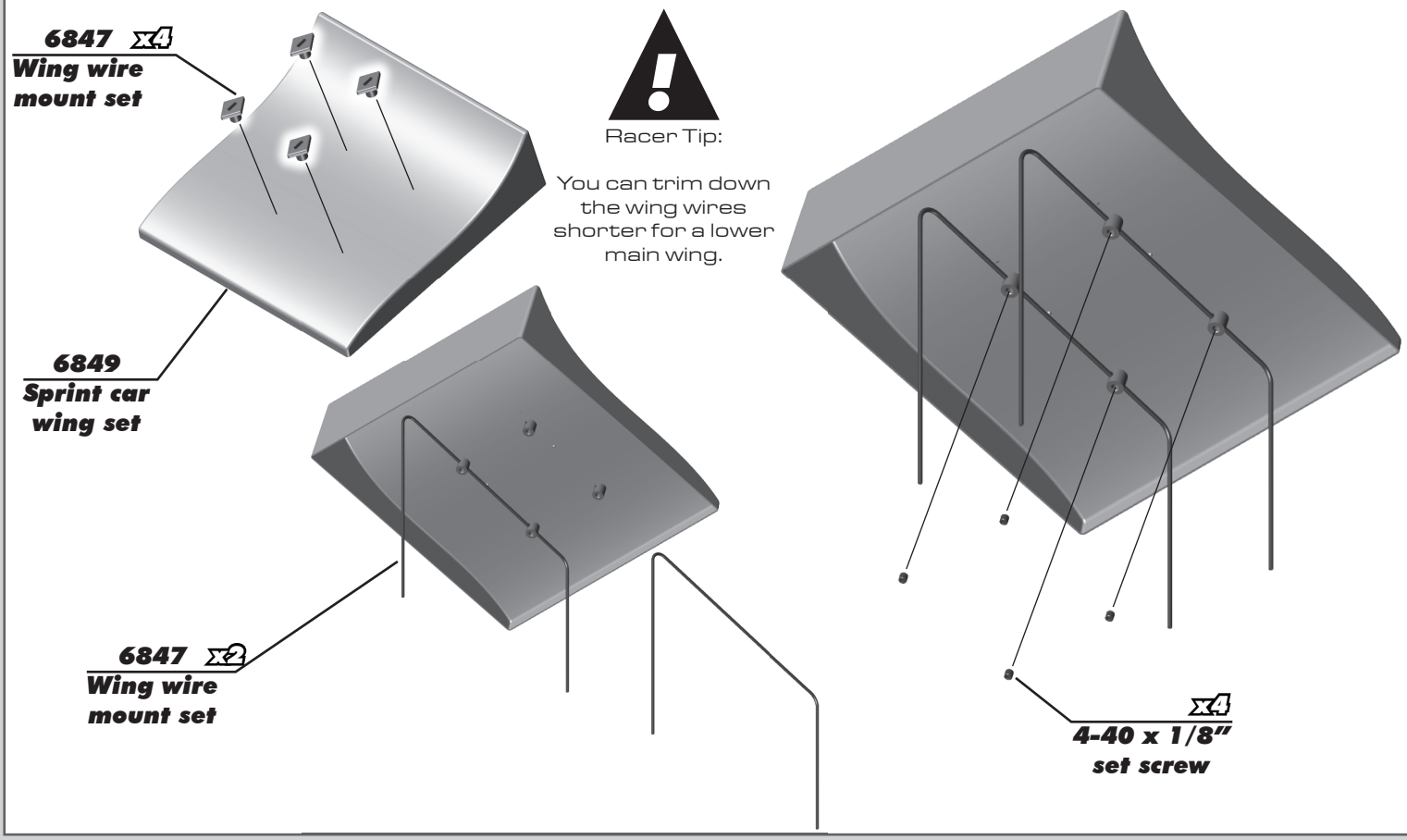
After the paint has dried, cut the body and wing along the trim lines. Make sure to drill or use a body reamer to make the holes for the body mounts, wing mounts, and antenna!



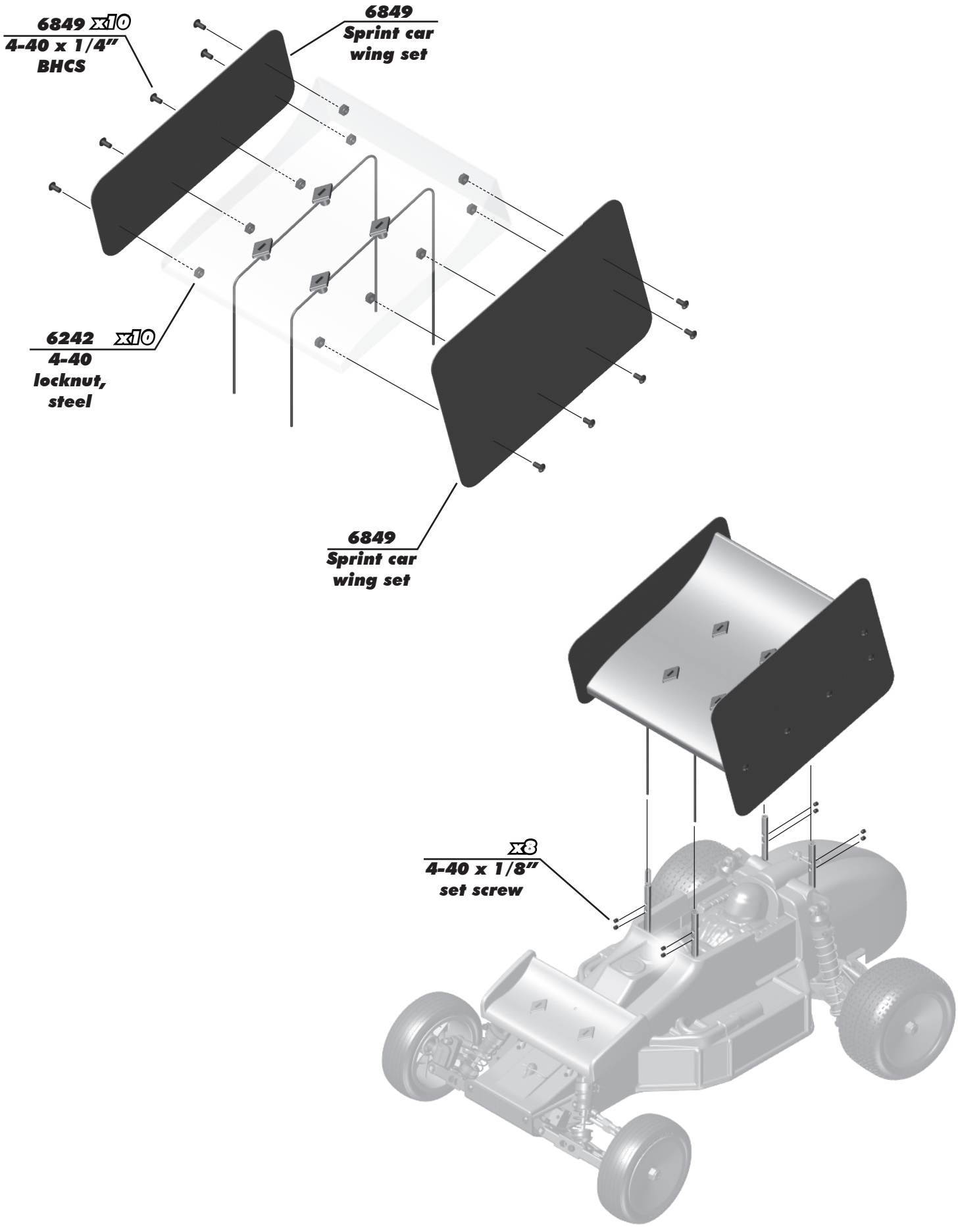
:: Wheels / Tires and Body - Bag J - Step 4



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



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



:: Notes

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