RC10L

1:10 SCALE COMPETITION
ROAD RACING CAR KIT



TEAM ASSOCIATED

1:10 Scale 2WD Electric On Road Competition Race Car Kit Manual

#8002 RC10L Race 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.

:: RC10L Kit Features

- Precision Carbon Fiber Chassis
- CNC machined aluminum rear lower plate
- Carbon Fiber upper rear plate
- T-bar pod flexure with adjustable friction plate
- Authentic original clear racing body
- Quality foam donut tires included
- Original lightweight racing wheels
- Ball bearings throughout
- Adjustable rear axle height inserts
- Lightweight Graphite rear main shaft
- CNC aluminum rear wheels hubs
- Precision ball differential
- Adjustable gold anodized oil filled damper
- Carbon fiber chassis side wings
- New centralized shorty LiPo battery mounting system
- Original and optional fiberglass T-bar systems
- CNC aluminum motor mount
- Carbon fiber front suspension brace
- Authentic original molded parts all around

:: Additional

Your new RC10L 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
- Peak detection battery charger
- 6 Cell NiCad Battery (3x3 saddle pack style) - OR - 2 cell LiPo battery
- 2mm Hex Driver (AE #1501)
- 5.5mm Hex Driver (AE #1507)
- Thread Lock (AE #1596)
- 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")

:: Other Helpful Items

- Tire Adhesive (AE #1697)
- 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 / Solder

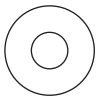
:: Hardware - 1:1 Scale View

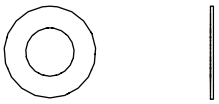
Shims and Washers

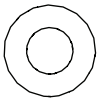

.030 Nylon Spacer (4187)

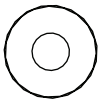

#4 Washer

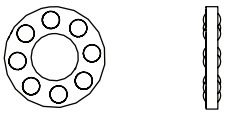

3x8mm (89218)

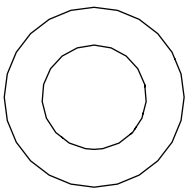

#8 Aluminum Thick Washer


Wheel Hex Spacer


Thrust Washer


Cone Washer


Thrust Bearing


Diff Washer

Flat Head (fhcs)


4-40 x 3/8"


4-40 x 1/2"


4-40 x 3/4"


8-32 x 1/2"


8-32 x 5/8"


8-32 x 1"

Cap Head (shcs)


4-40 x 1/4"


4-40 x 5/16"


4-40 x 1/2"


5-40 x 5/8"

Bearings


1/8" x 5/16" Flanged


1/4 x 3/8 x 1/8 Flanged

Button Head (bhcs)

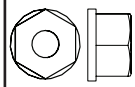

2-56 x 5/16"

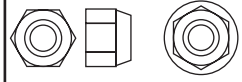
Nuts (lock/plain)


4-40 Small Pattern Plain Nut


4-40 Nuts


5-40 Locknut (6629)


8-32 Plastic Locknut


8-32 Steel Locknut

Clips


E-clip 1/8" (6299)

Diff Balls


1/8" Thrust Balls

Set Screws


4-40 x 1/8"


10-32 x 1/4"

Notes:

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(Bag G)

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(Misc.)

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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.

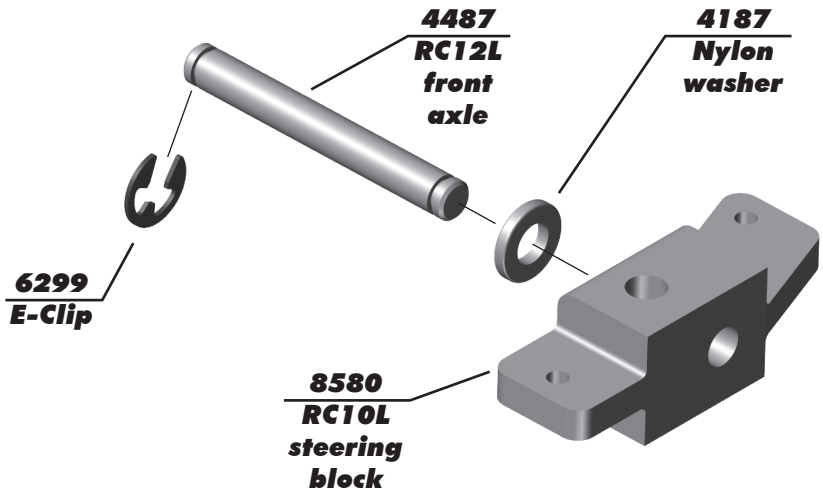
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21062 Bake Parkway
Lake Forest, CA 92630

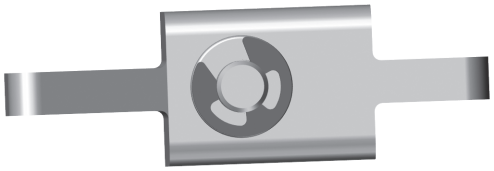
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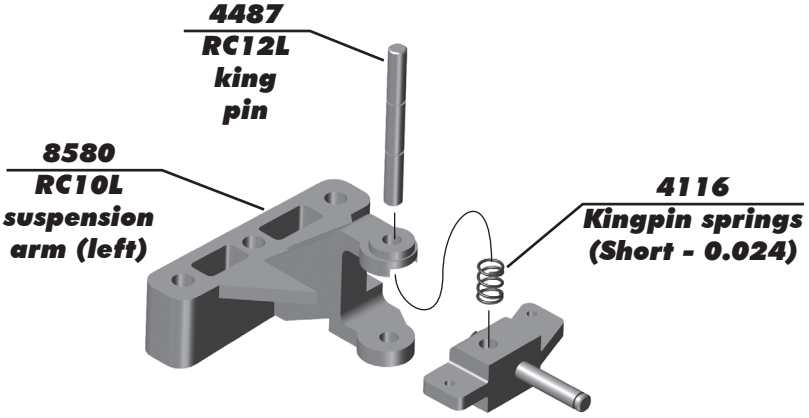
:: Front End Build - Bag A - Step 1

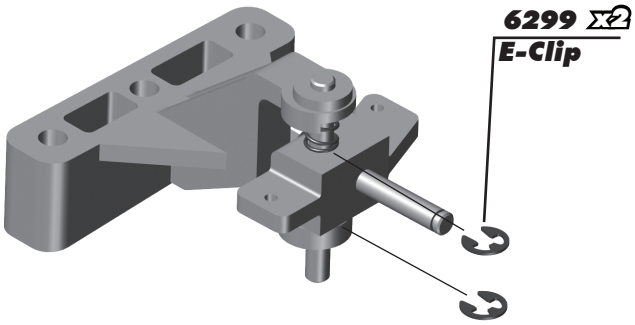


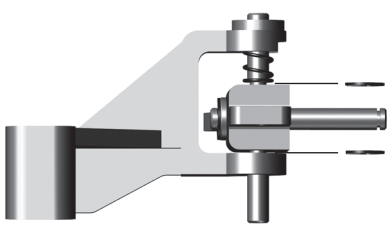


Build left and right sides!

:: Front End Build - Bag A - Step 2

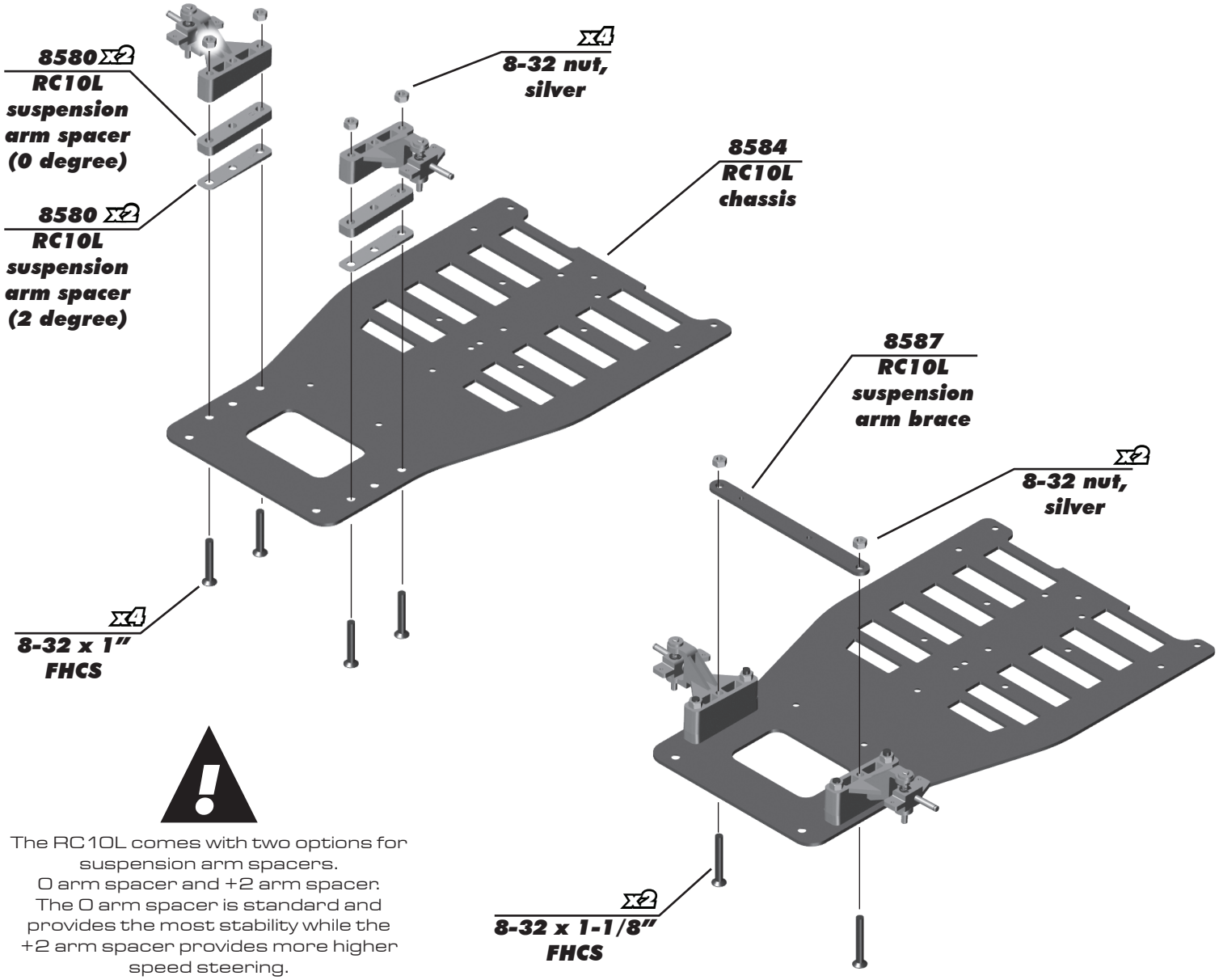






Build left and right sides!

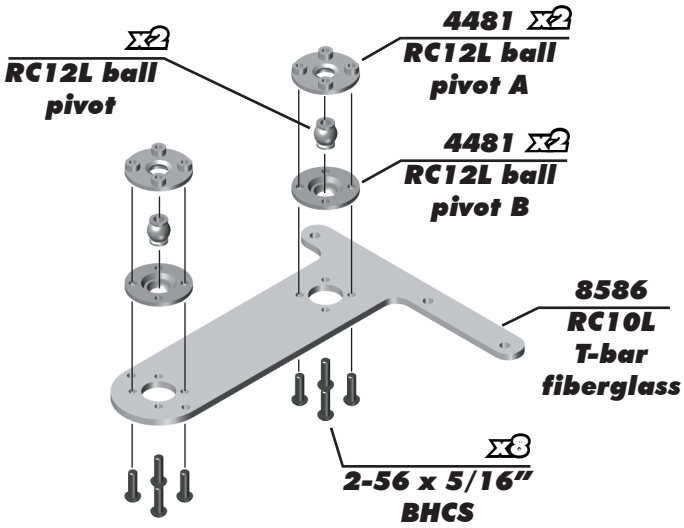
:: Front End Build - Bag A - Step 3



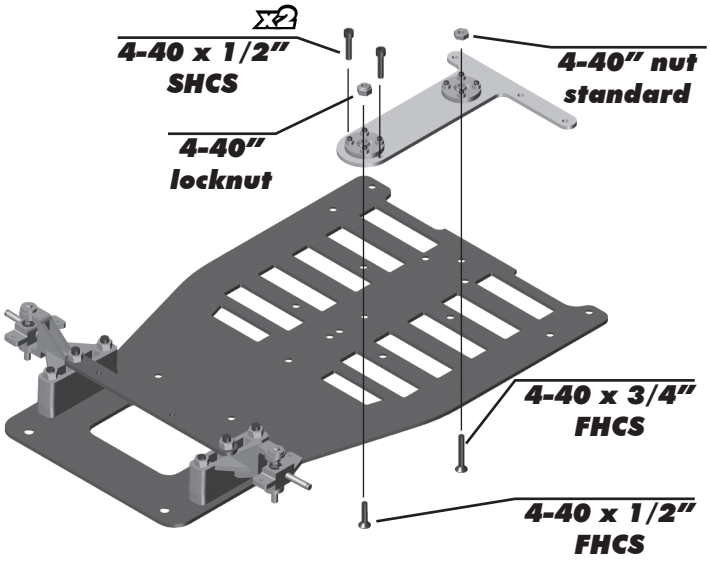
The RC10L comes with two options for suspension arm spacers.
0 arm spacer and +2 arm spacer.
The 0 arm spacer is standard and provides the most stability while the +2 arm spacer provides more higher speed steering.

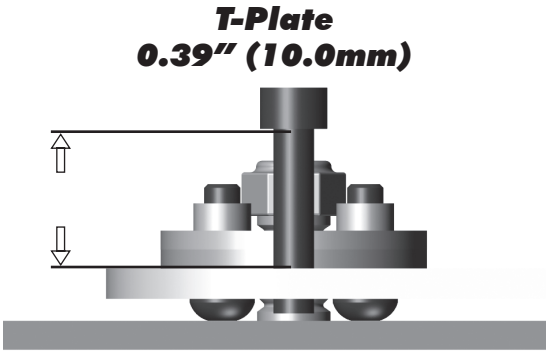
:: T-Plate Build - Bag B - Step 1

The RC10L comes with two building options based on battery type used.
Classic (NiCad battery) and Modern (LiPo battery).
The build will follow the classic build.
If you wish to build it based on LiPo battery use, skip to page 13 and bag G for the LiPo battery T-Bar and shock mounting steps and parts.

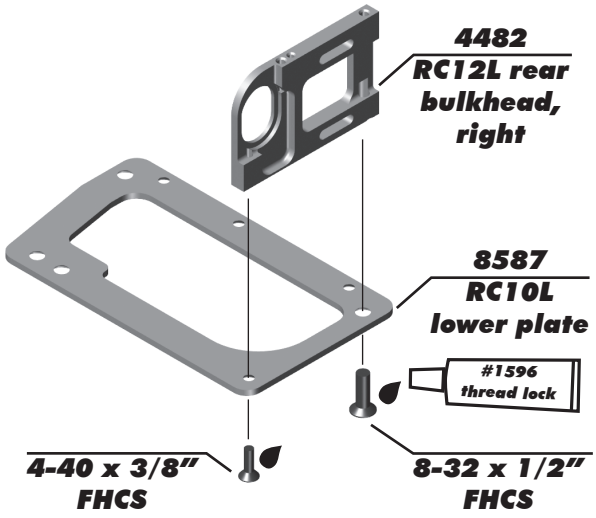


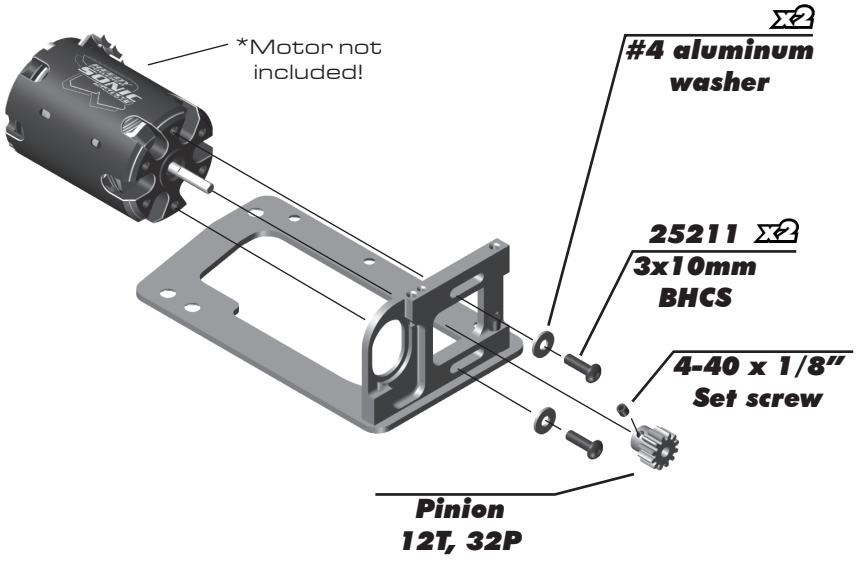
:: T-Plate Build - Bag B - Step 2



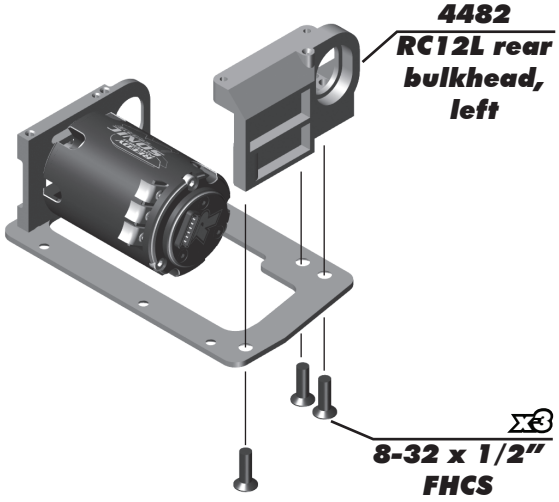


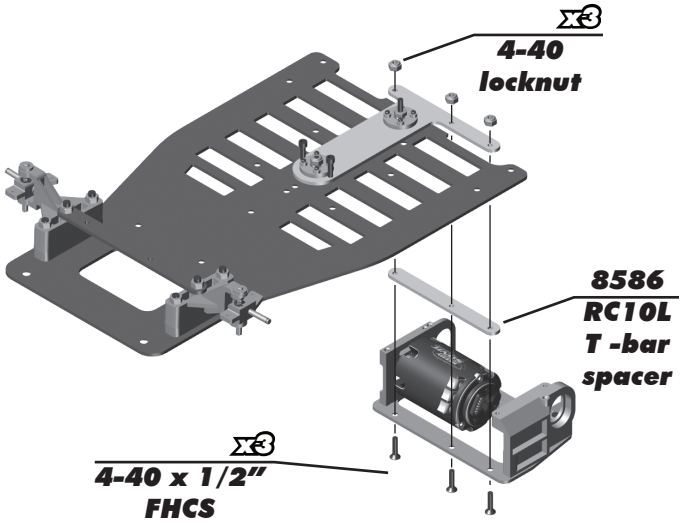
:: Rear Pod Build - Bag C - Step 1



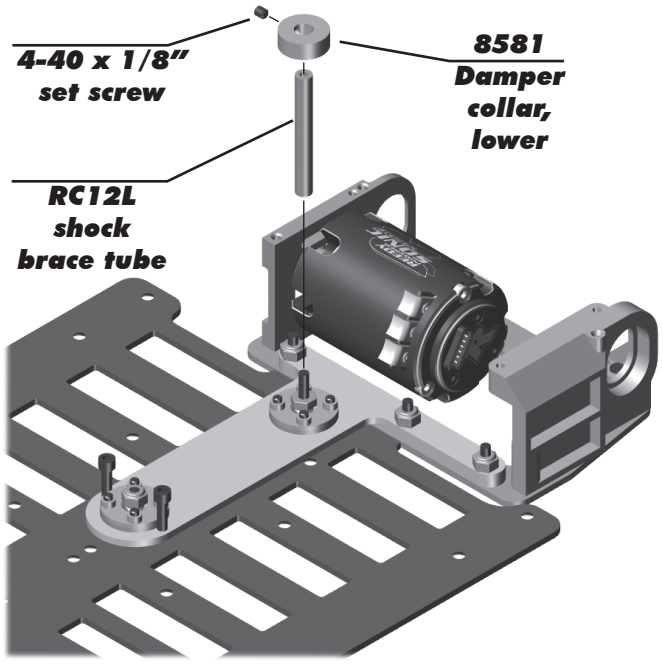


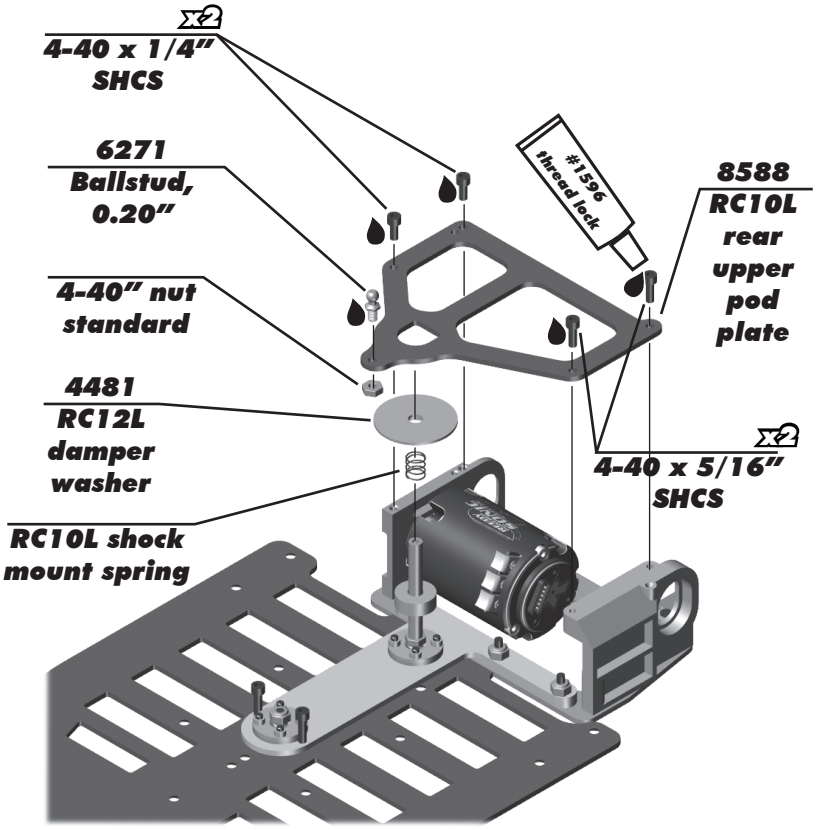
:: Rear Pod Build - Bag C - Step 2



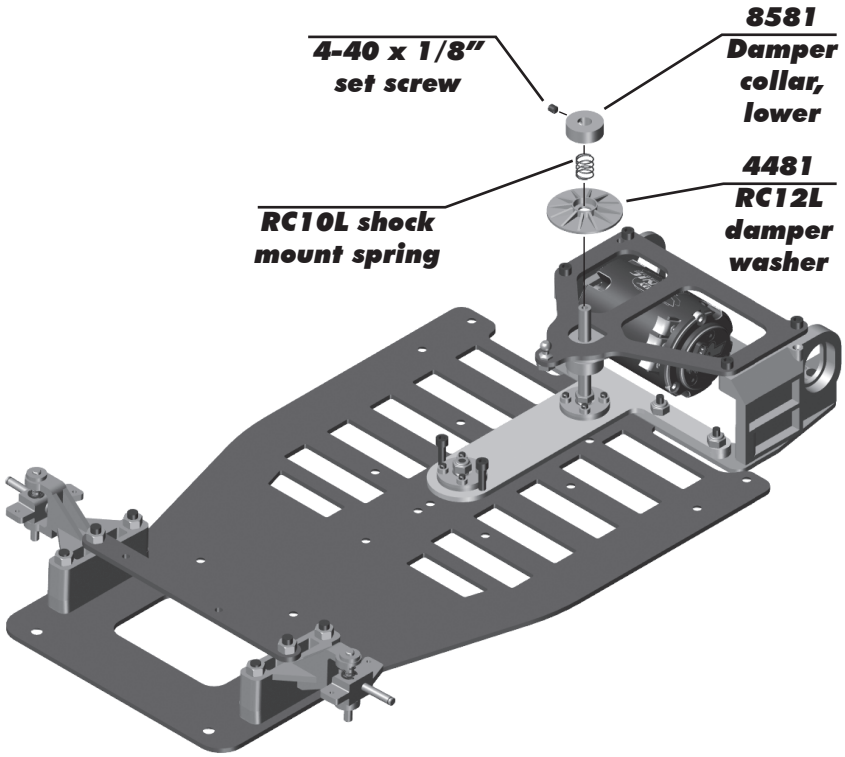


:: Rear Damper Build - Bag D - Step 1

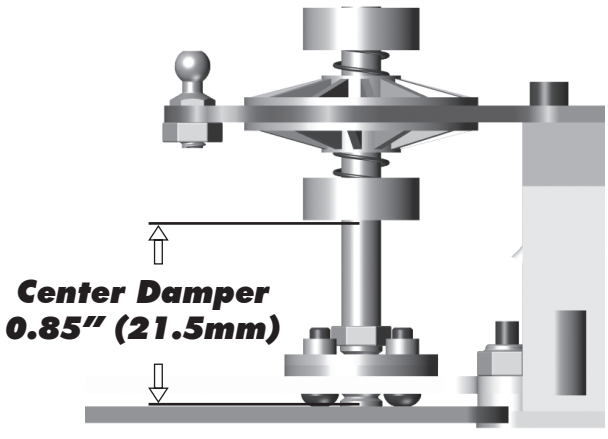




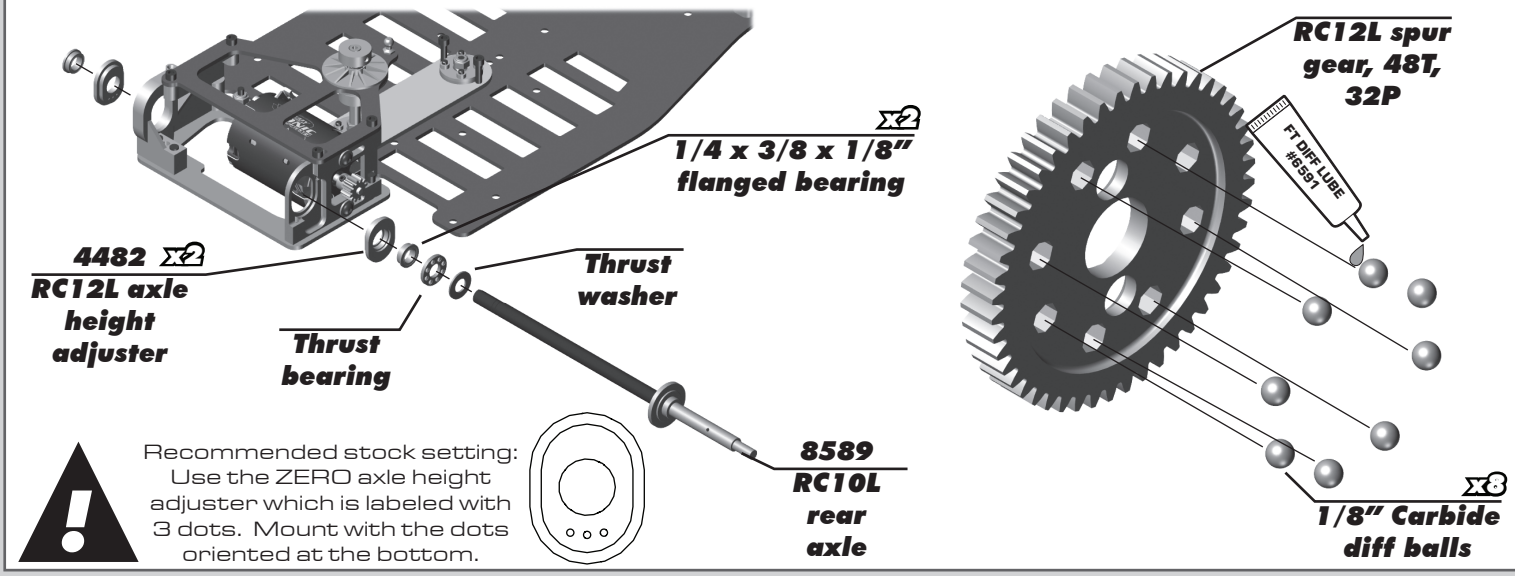
:: Rear Damper Build - Bag D - Step 2



21.5mm Gap (Chassis to lower damper collar. The center damper should be smooth without any binding for optimum performance.

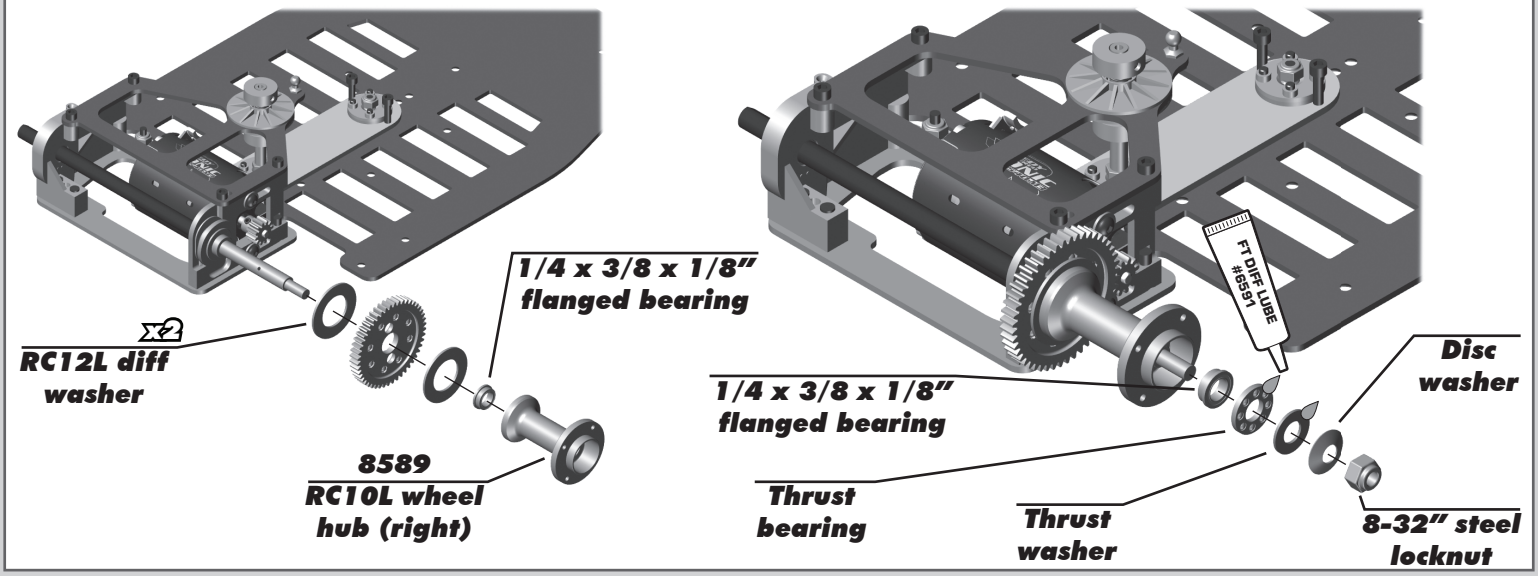


:: Rear Axle Build - Bag E - Step 1

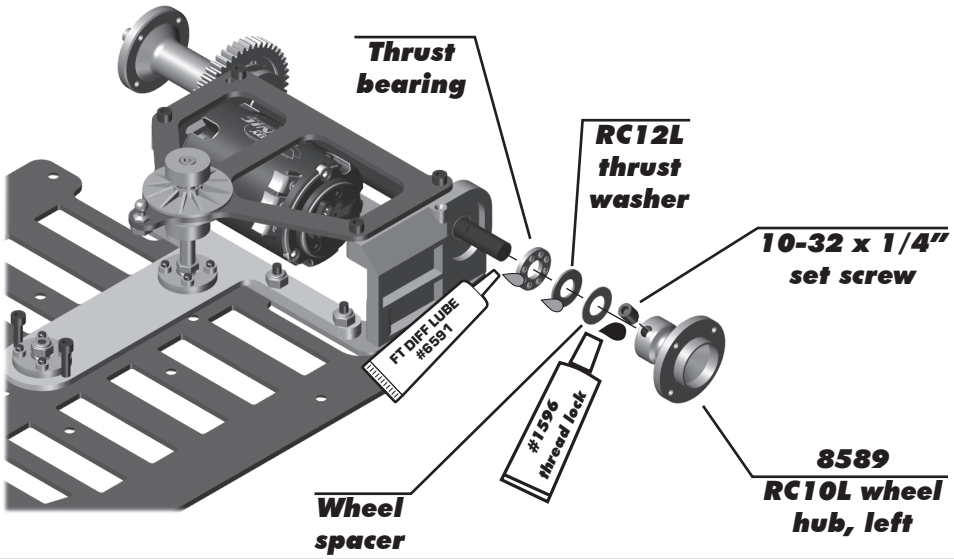


Recommended stock setting: Use the ZERO axle height adjuster which is labeled with 3 dots. Mount with the dots oriented at the bottom.

:: Rear Axle Build - Bag E - Step 2

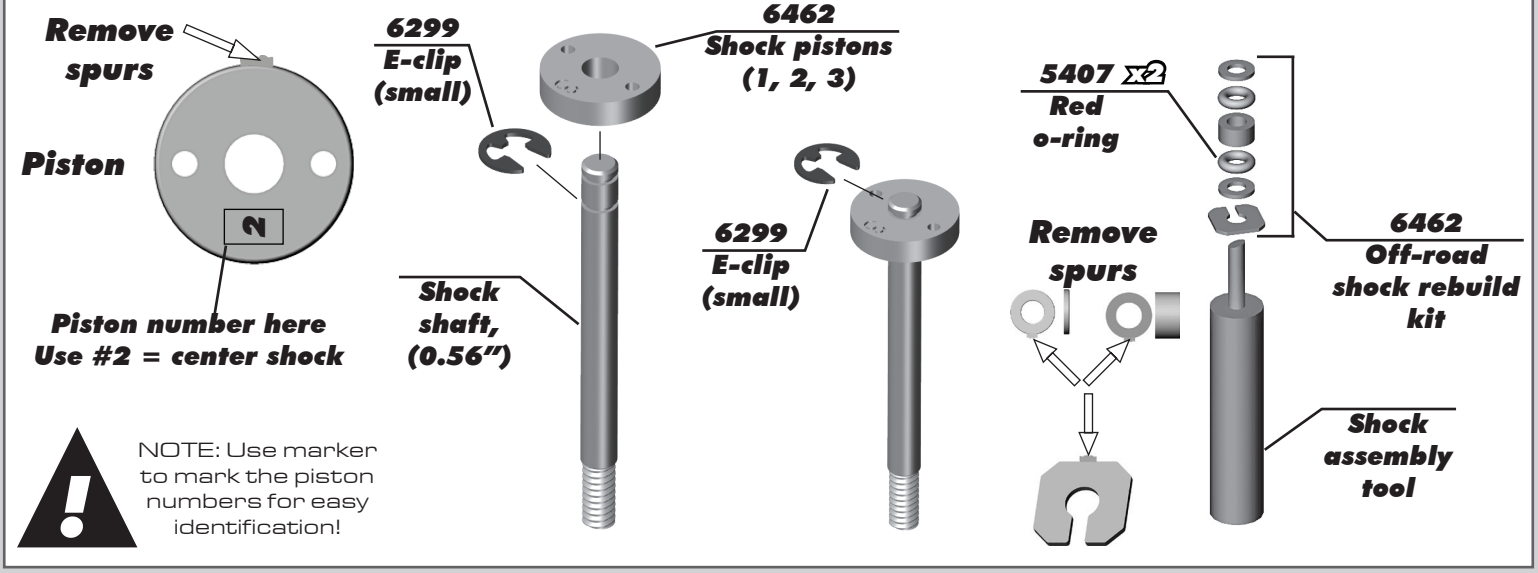


:: Rear Axle Build - Bag E - Step 3

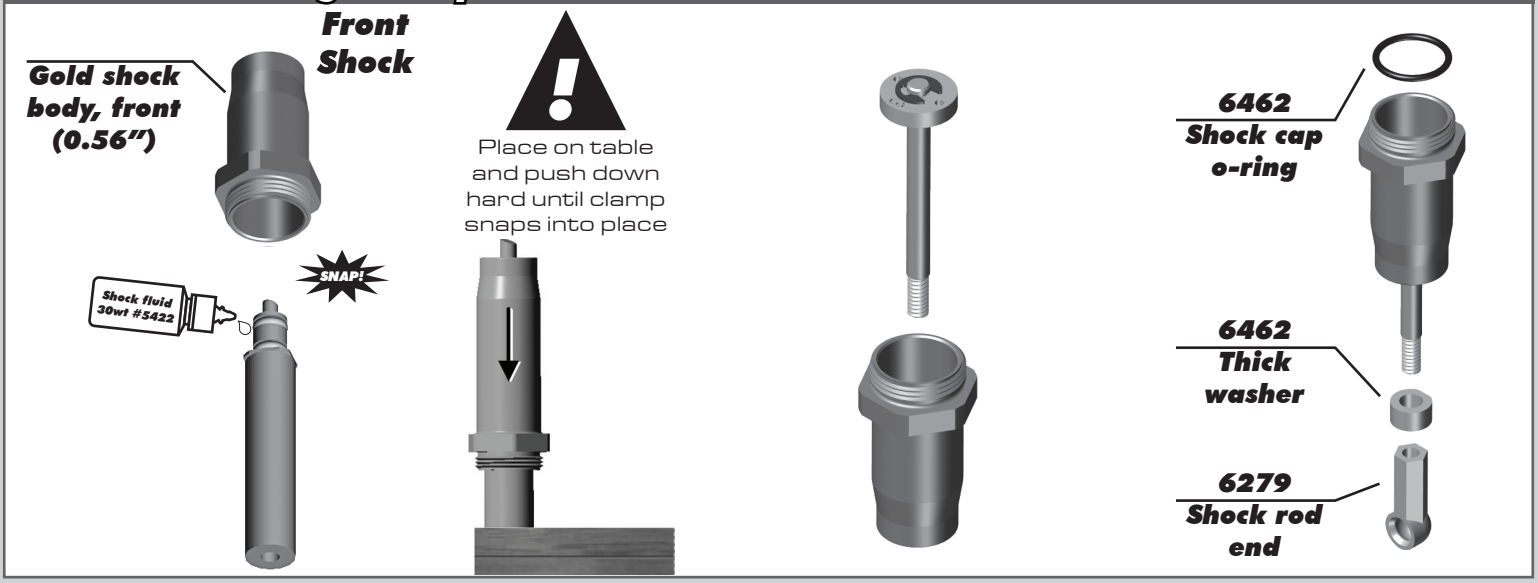


Apply a small amount of #6636 Silicone lube to each diff washer and thrust washer.
Tighten the differential until the spur gear does not slip by hand. Fine tune the differential on the track surface by tightening until the diff does not slip under power.

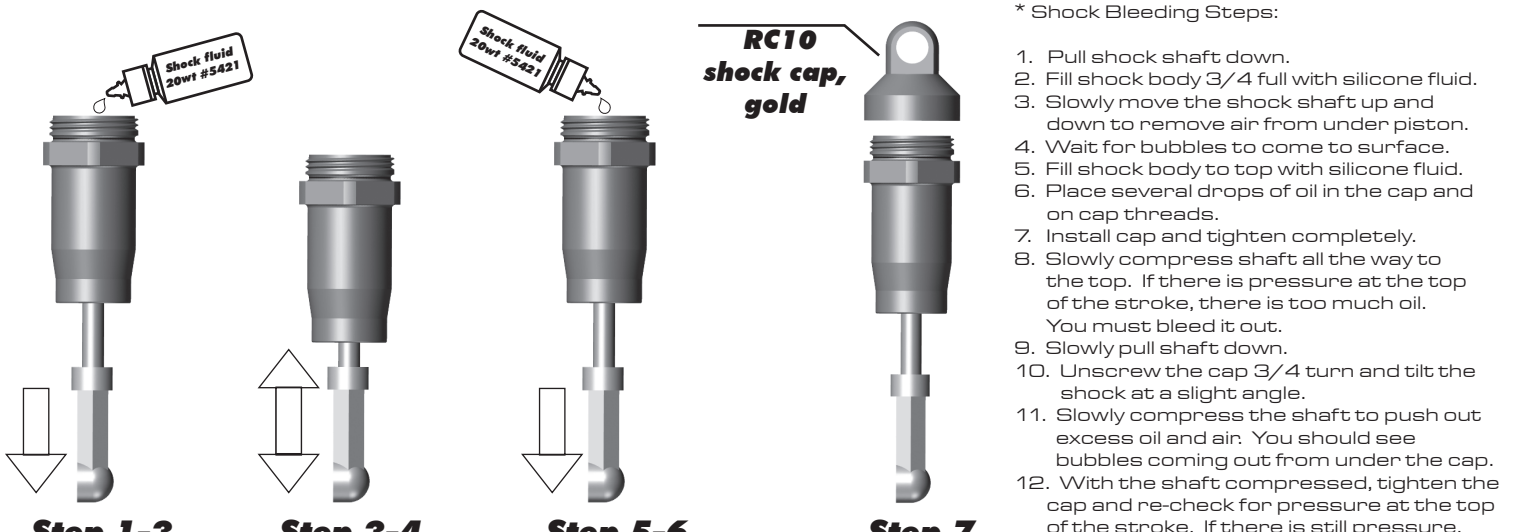
:: Shock Build - Bag F - Step 1



:: Shock Build - Bag F - Step 2



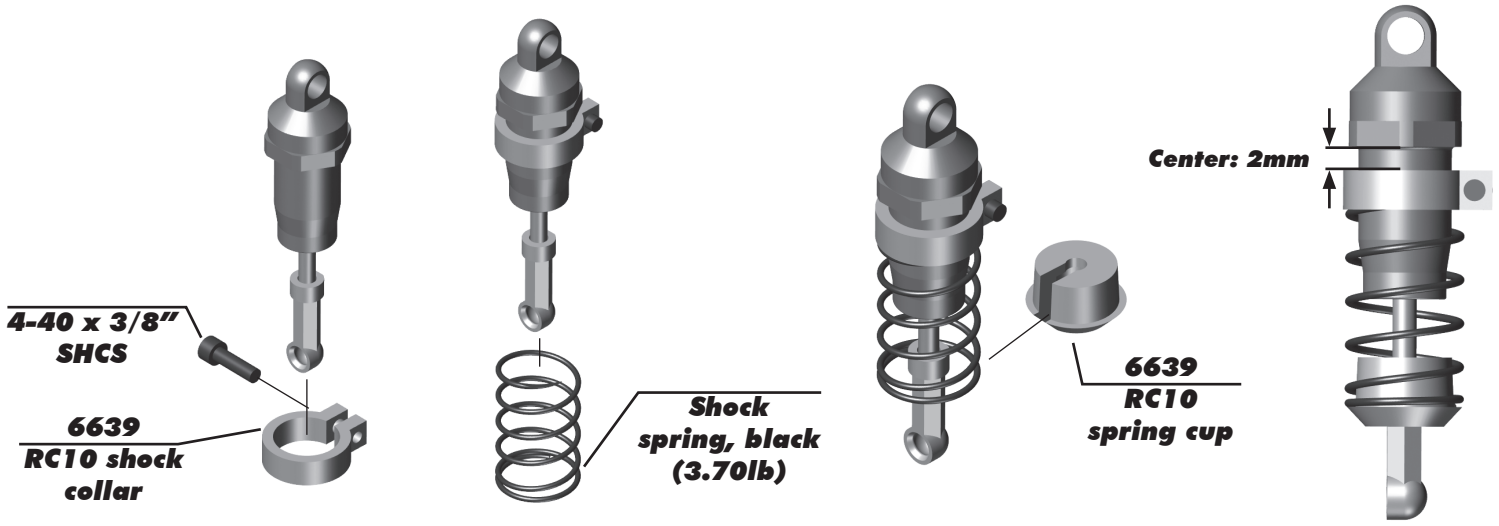
:: Shock Build - Bag F - Step 3



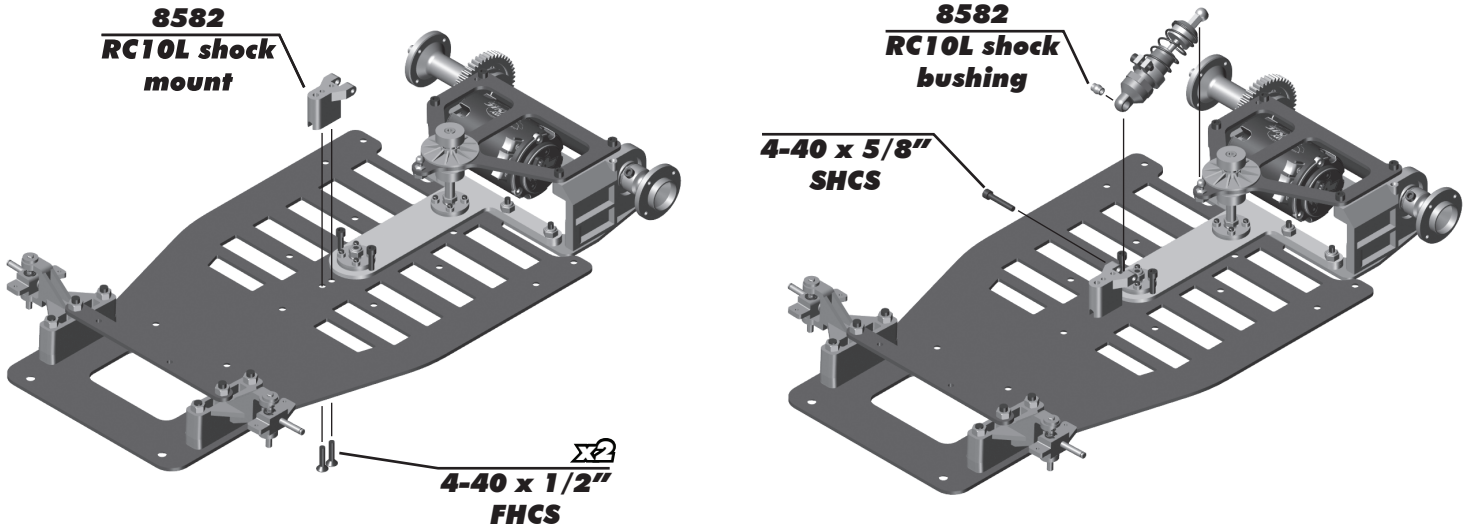
* Shock Bleeding Steps:

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.

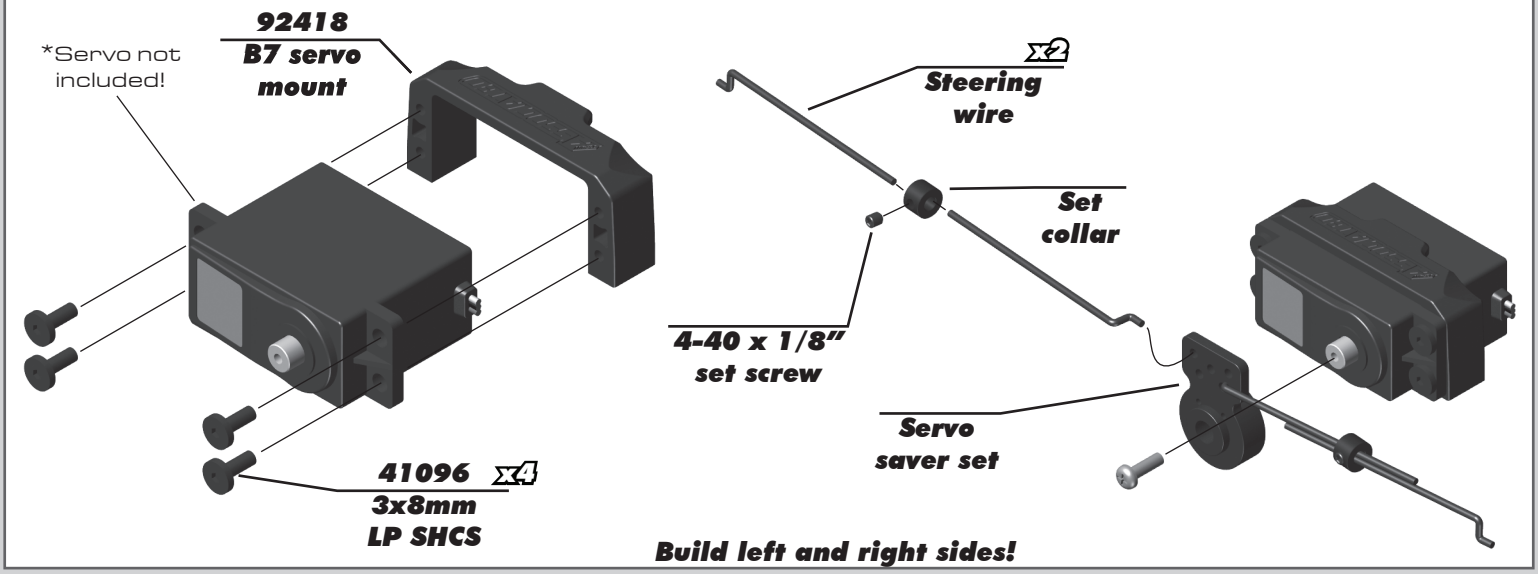
:: Shock Build - Bag F - Step 4



:: Shock Build - Bag F - Step 5

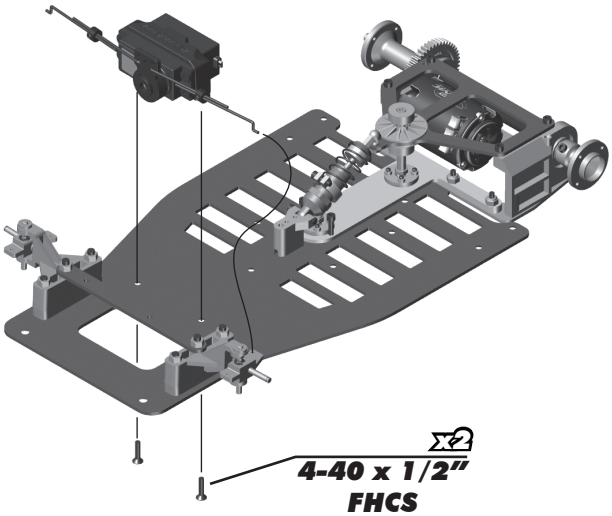


:: Steering Build - Bag F - Step 1



Build left and right sides!

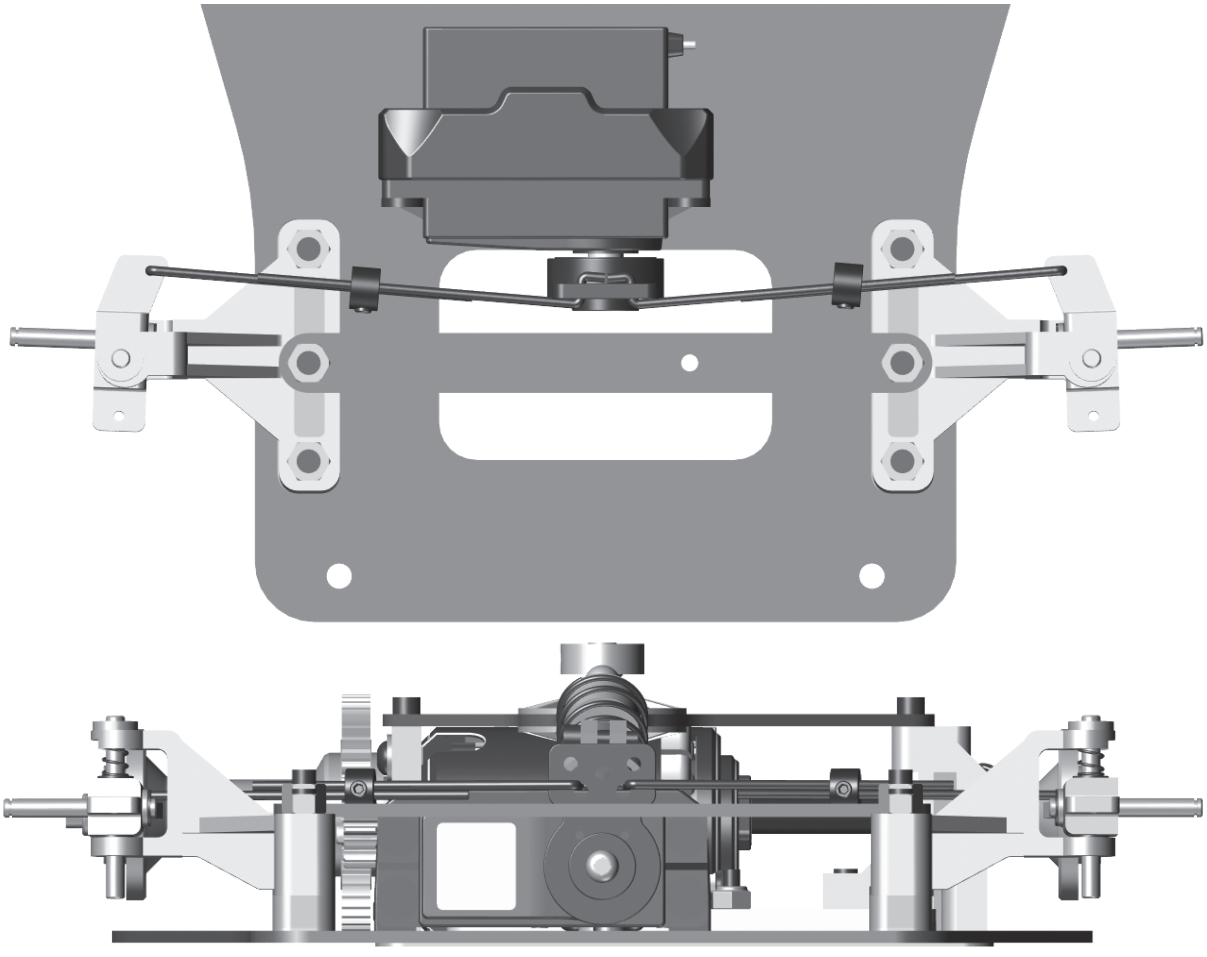
:: Steering Build - Bag F - Step 2



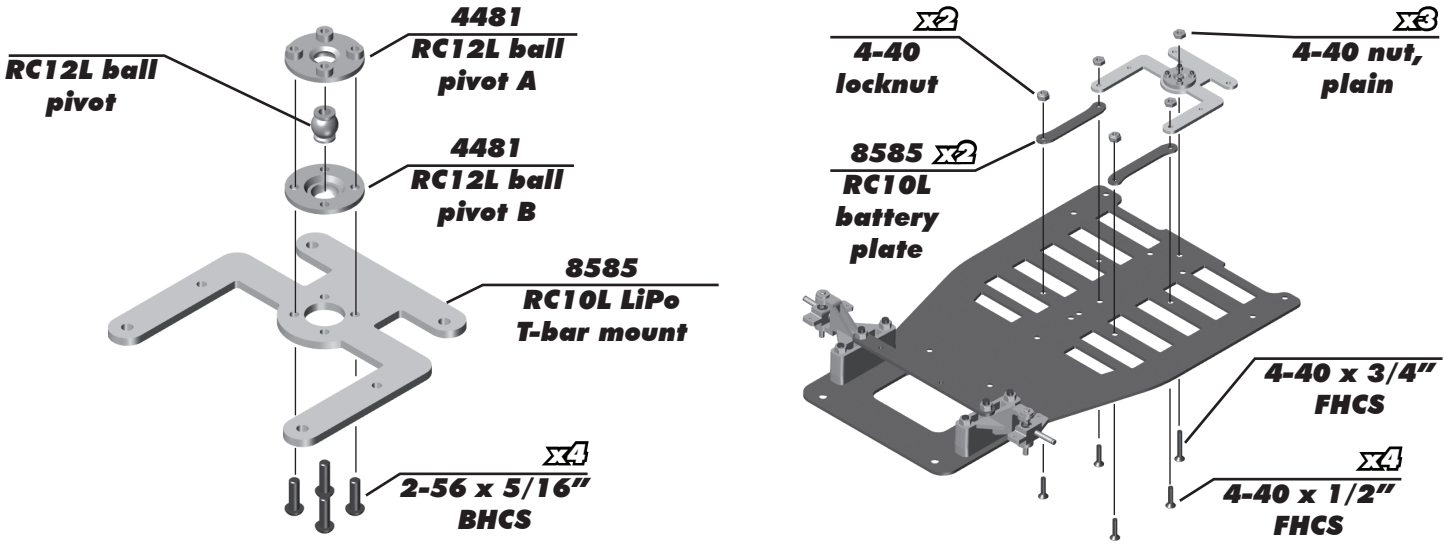
Original authentic servo mounting, requires direct servo tape application. Use industrial strength servo tape to mount the servo so that the servo spline is in the center of the from suspension arms.

:: Steering Build - Bag F - Step 3

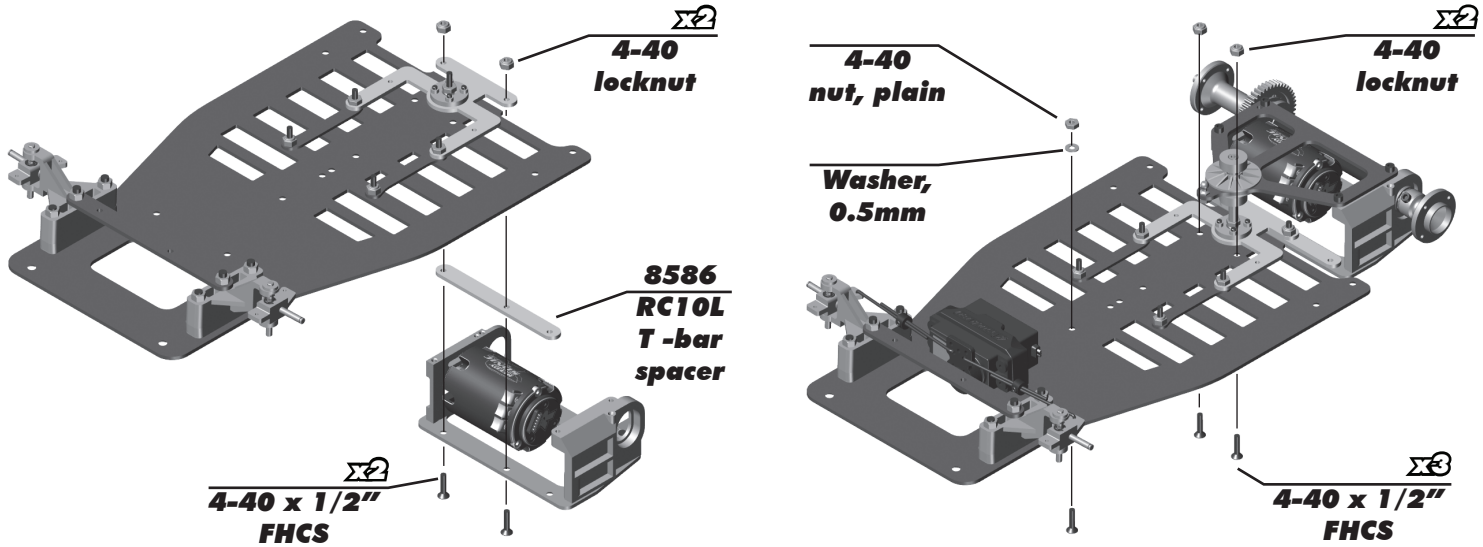
Recommended Toe in = 0 degrees
Adjust the collets on the steering servo links until the wheels are straight with 0 degrees of toe in.



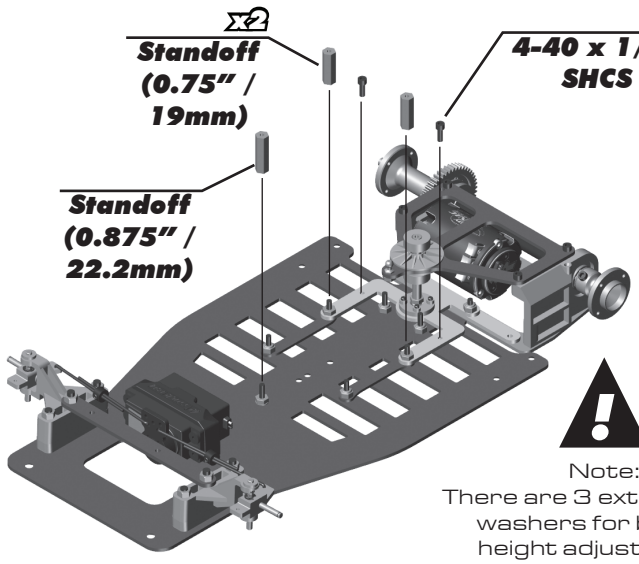
:: LiPo Battery Mount (OPTIONAL) Build - Bag G - Step 1



:: LiPo Battery Mount (OPTIONAL) Build - Bag G - Step 2

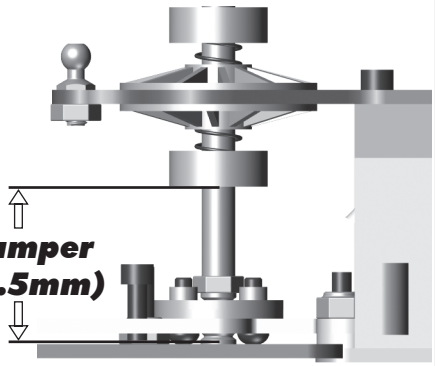


:: LiPo Battery Mount (OPTIONAL) Build - Bag G - Step 3

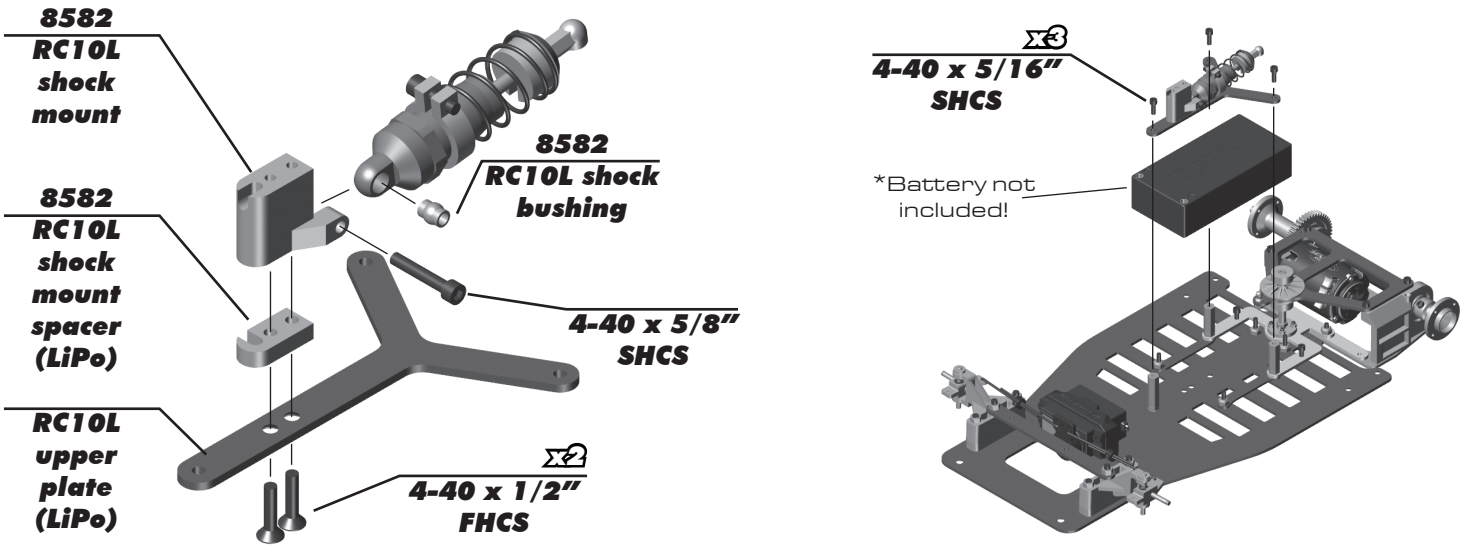


Note:
There are 3 extra 0.5mm washers for battery height adjustments.

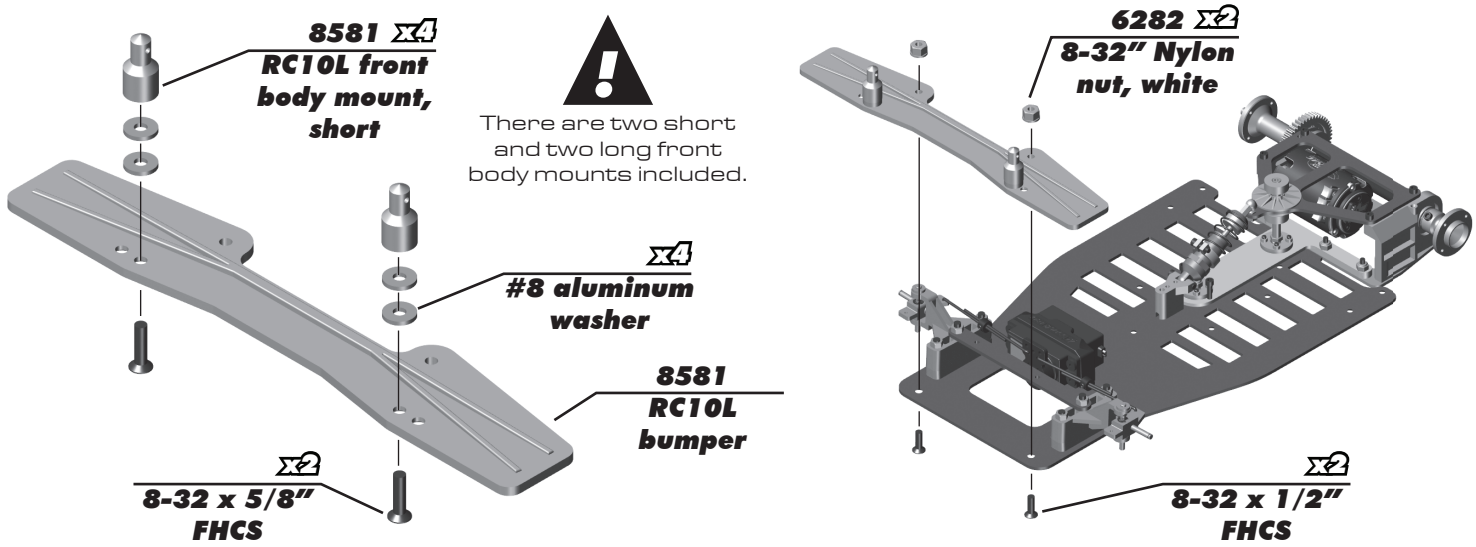
21.5mm Gap (Chassis to lower damper collar.
The center damper should be smooth without any binding for optimum performance.



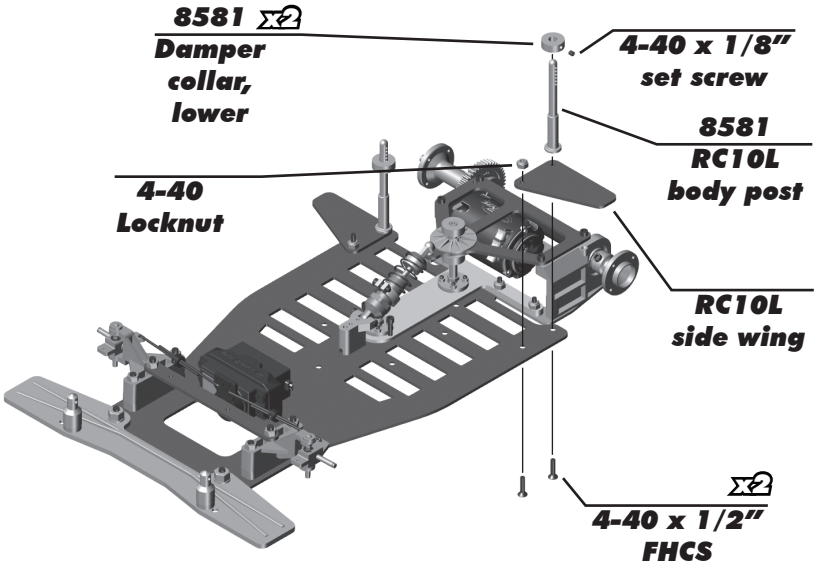
:: LiPo Battery Mount (OPTIONAL) Build - Bag G - Step 4



:: Bumper and Body Mounts Build - Bag G - Step 1

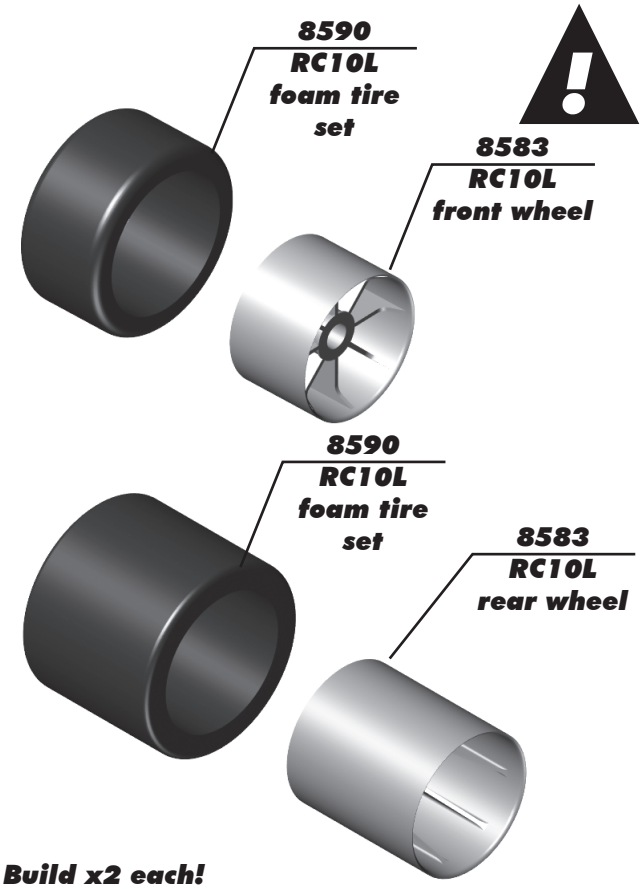


:: Bumper and Body Mounts Build - Bag G - Step 2



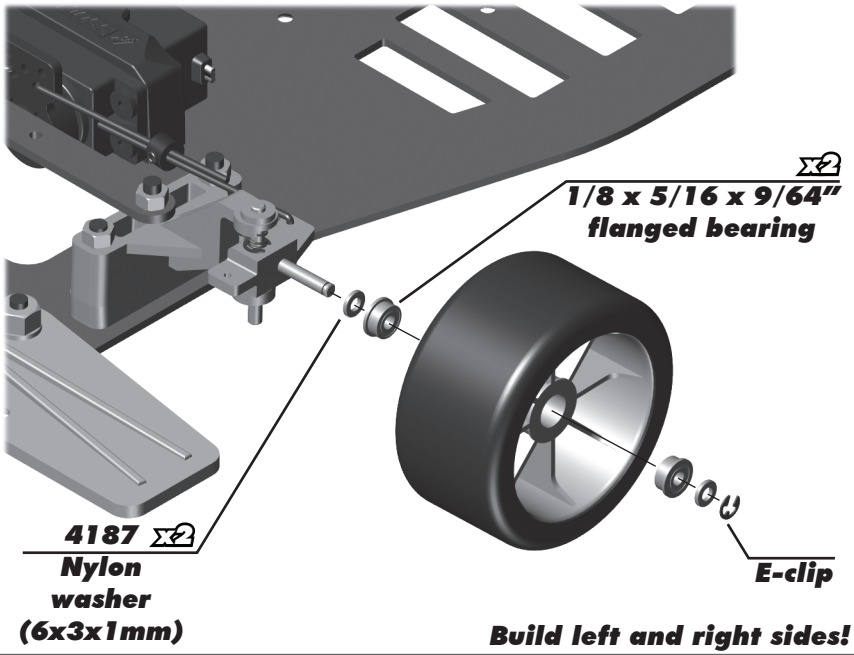
Build left and right sides!

:: Wheels and Tires Build - Bag H - Step 1

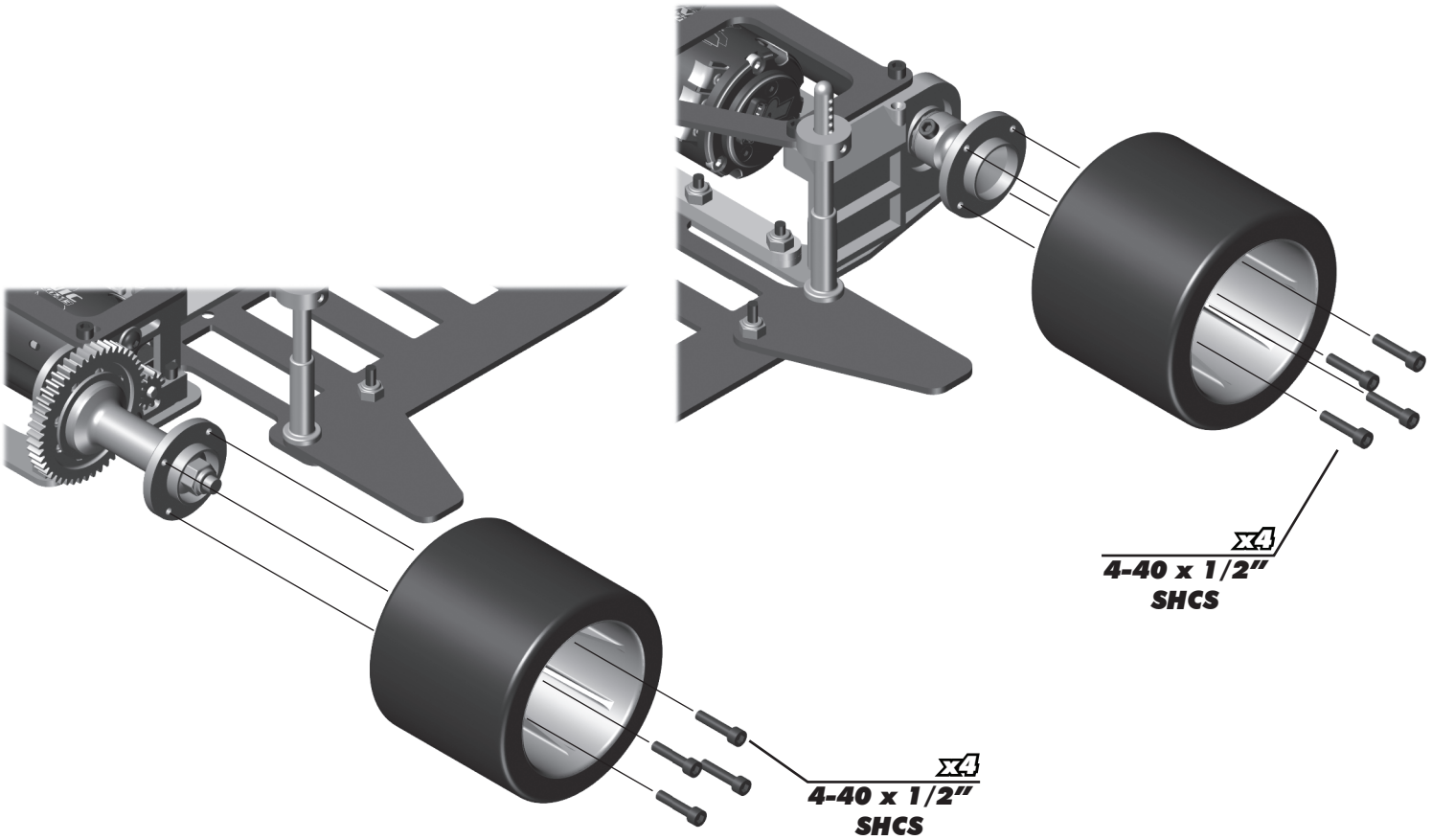


The foam tires for the RC10L comes un-mounted and un-trued. To mount the tires, use rubber cement or thin layer of CA glue. Once the tires are mounted to the wheel, remove the excess tire lip with scissors or a sharp hobby knife. Once your tires are installed and trimmed down, you are ready to true down your tires. You can true down RC10L tires by using a tire lathe or by installing onto a drill.

*Racer Tip: Use micrometers to measure and make sure your tires are the same and equal diameter.

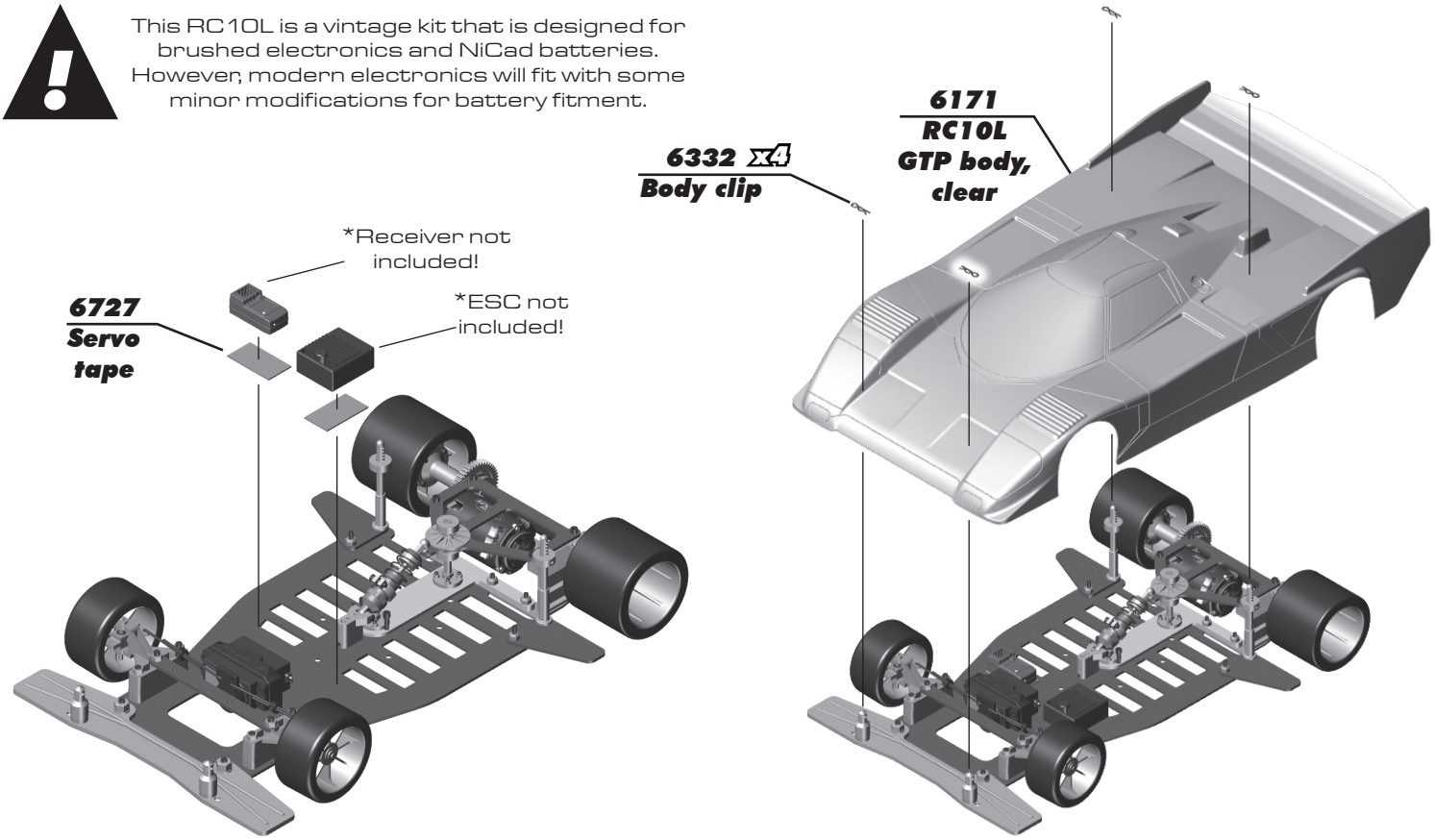


:: Wheels and Tires Build - Bag H - Step 2



:: Electronics / Body Install - Misc. - Step 1

This RC10L is a vintage kit that is designed for brushed electronics and NiCad batteries. However, modern electronics will fit with some minor modifications for battery fitment.



:: Electronics Install - Misc. - Step 2

Painting Tips:

Your 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!

:: Notes

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