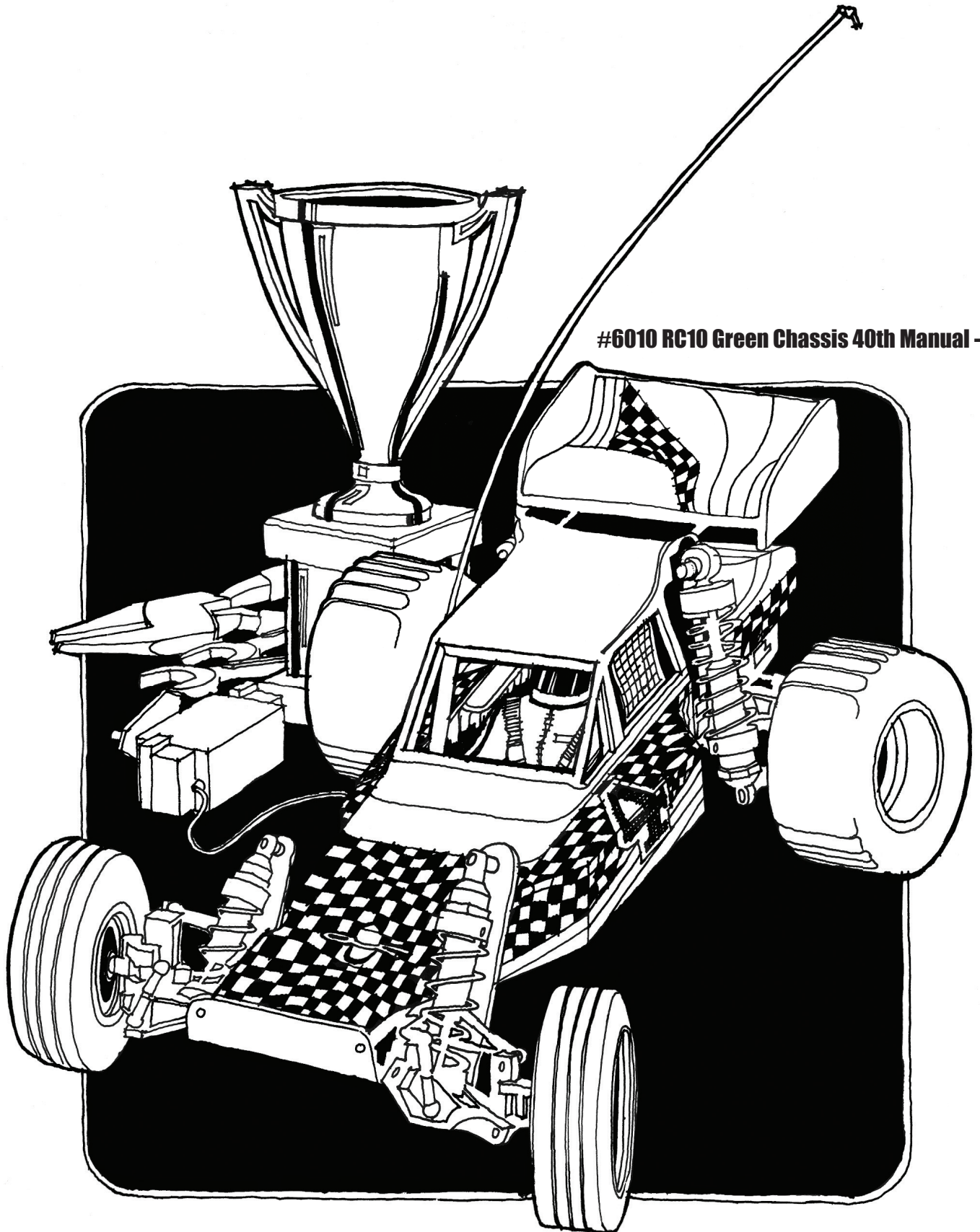


ASSOCIATED RC10

ASSEMBLY AND OPERATING INSTRUCTIONS



#6010 RC10 Green Chassis 40th Manual - Kit

:: Introduction

Thank you for purchasing this Team Associated product. This assembly manual contains instructions and tips for building and maintaining your new RC10 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 RC10ME Master Edition - Kit:

- Collectible 60th Anniversary "60" Chassis Stamp
- The RC10 Classic is designed to accept 6-cell NiMH and 2S LiPo battery packs
- T6 aircraft aluminum monocoque tub in collectible (Special Green Anodized)
- Chrome 3 Piece Rear Wheels
- Legendary Chrome 3 piece Jay Halsey Front Wheels
- Special Green Anodized Front skid plate
- Special Green Anodized Motor Plate
- AE Laser etched logo on chassis
- Adjustable custom aluminum racing shocks
- Fully adjustable 4-wheel independent suspension

:: 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):

- RC 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 #1697)
- 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

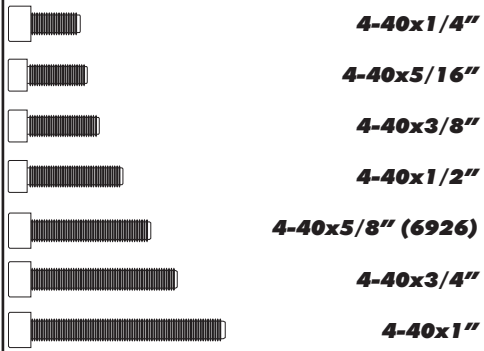
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630



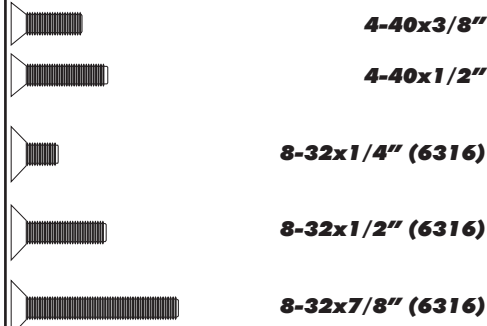
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

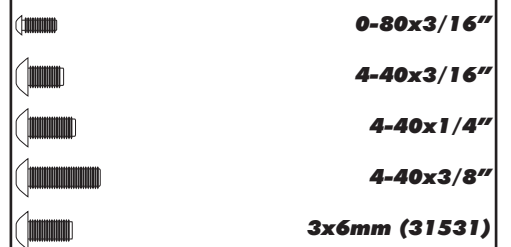
Cap Head (shcs)



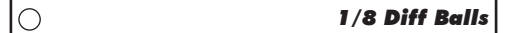
Flat Head (fhcs)



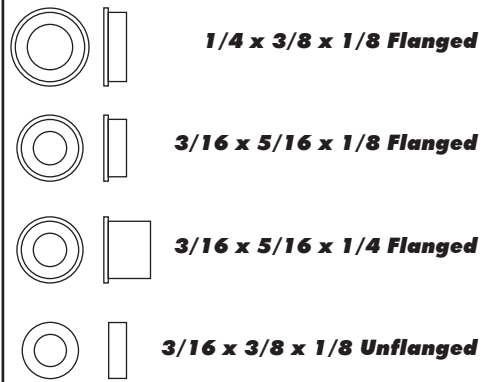
Button Head (bhcs)



Diff Balls



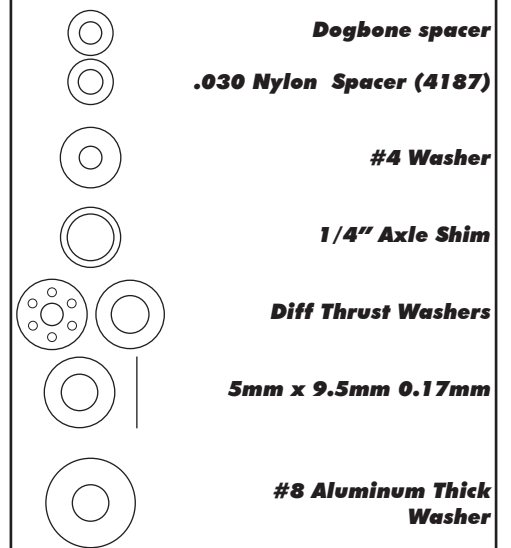
Bushings



Set Screws



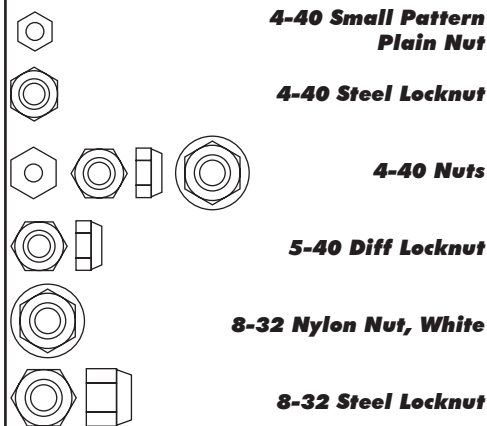
Shims and Washers



Clips



Nuts (lock/plain)



Notes:

:: Table of Contents

1..... Cover	12 - 13..... Turnbuckles Build (Bag F)
2..... Introduction	13 - 15..... Shocks Build (Bag G)
3..... 1:1 Hardware "Fold Out"	16 Chassis Build (Bag H)
4..... Table of Contents	16 - 18..... Electronics Build (Bag I)
5..... Nose Plate / Steering Build (Bag A)	18 - 20..... Wheels, Tires and Body Install (Bag J)
5 - 6..... Front Suspension Build (Bag B)	21..... Notes
7 - 10..... Transmission Build (Bag C)	22..... Back Cover
10 - 11..... Rear Bulkhead Build (Bag D)	
11 - 12..... Rear Suspension Build (Bag E)	

:: Notes

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



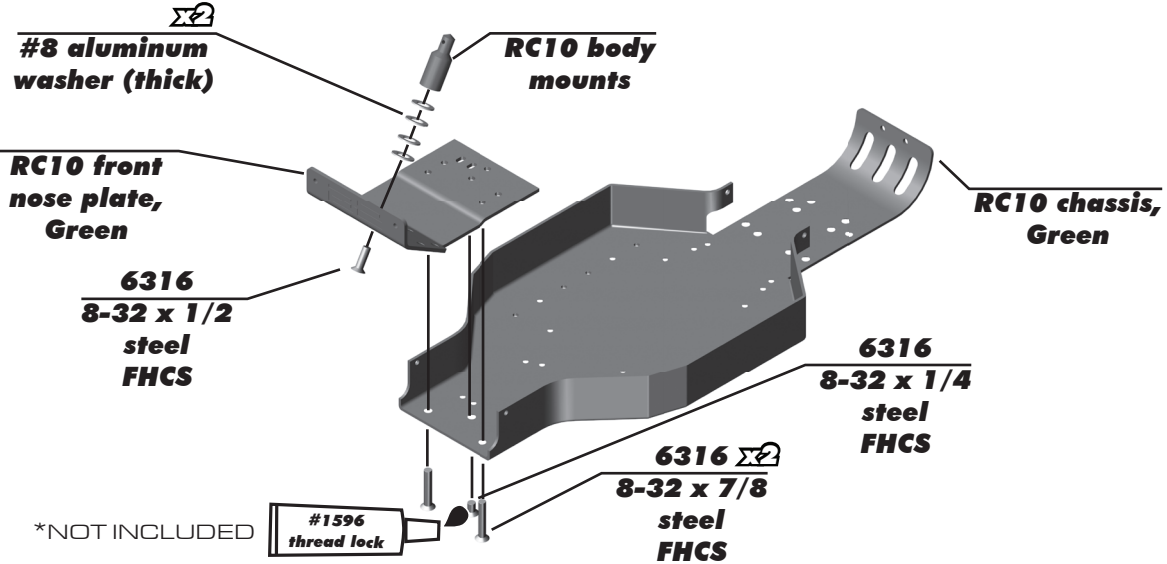
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size.

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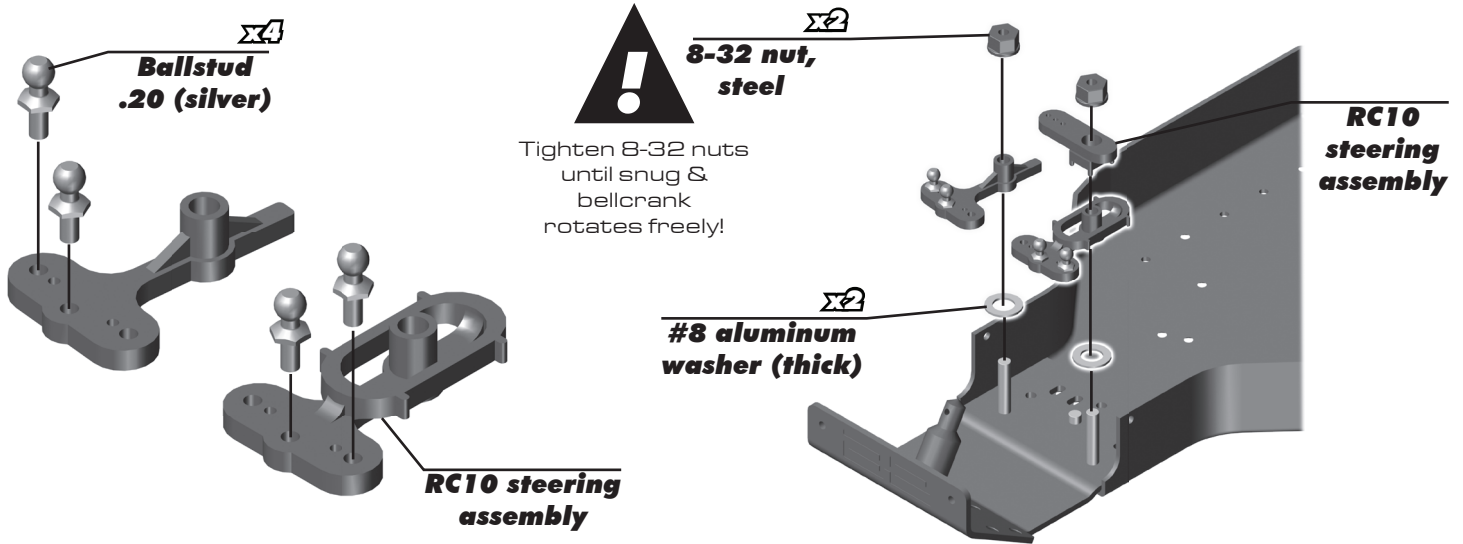


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Tel: 949.544.7500
Fax: 949.544.7501

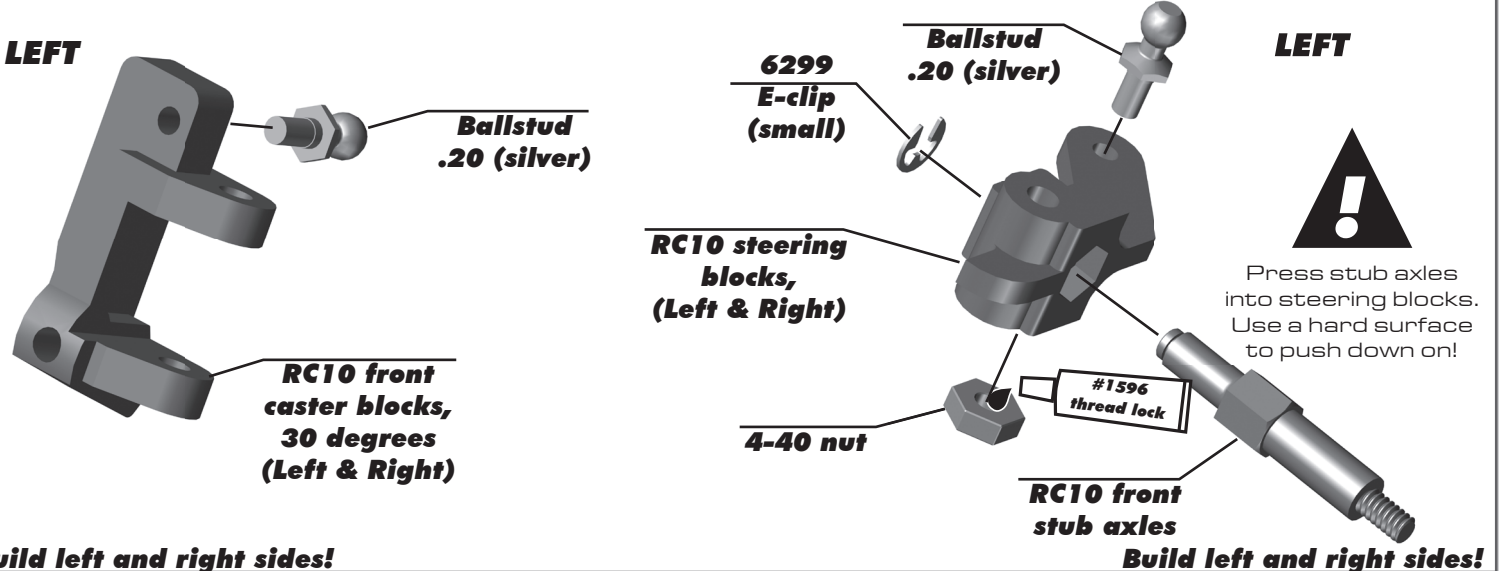
:: Nose Plate / Steering Build - Bag A - Step 1



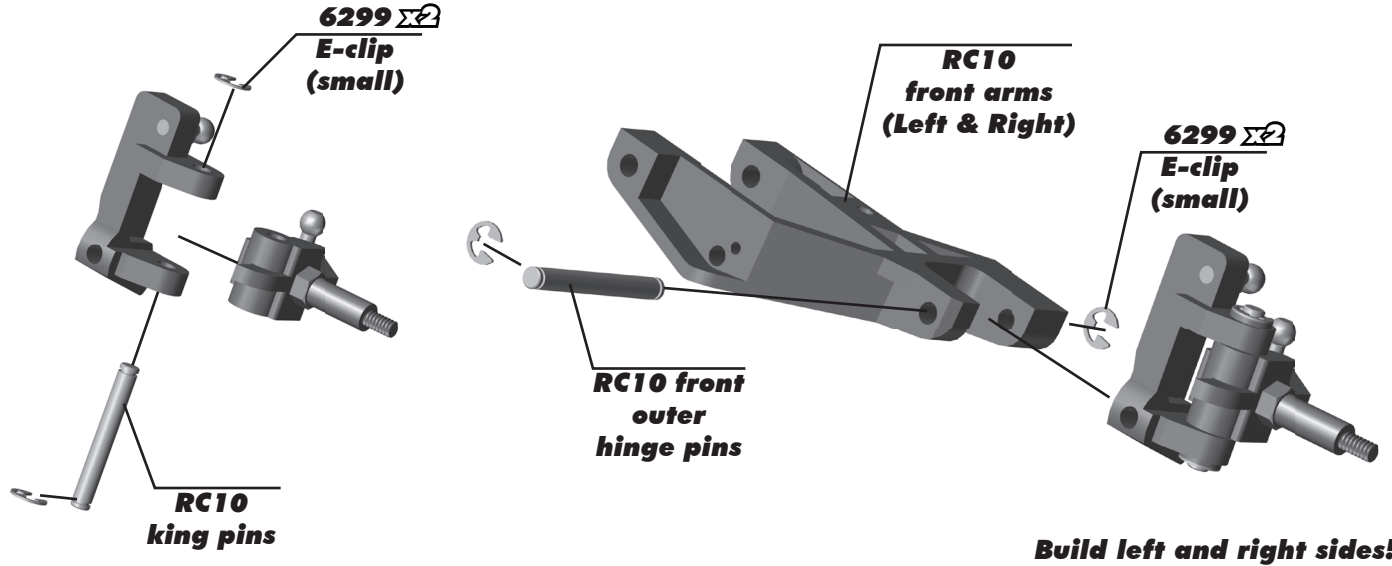
:: Nose Plate / Steering Build - Bag A - Step 2



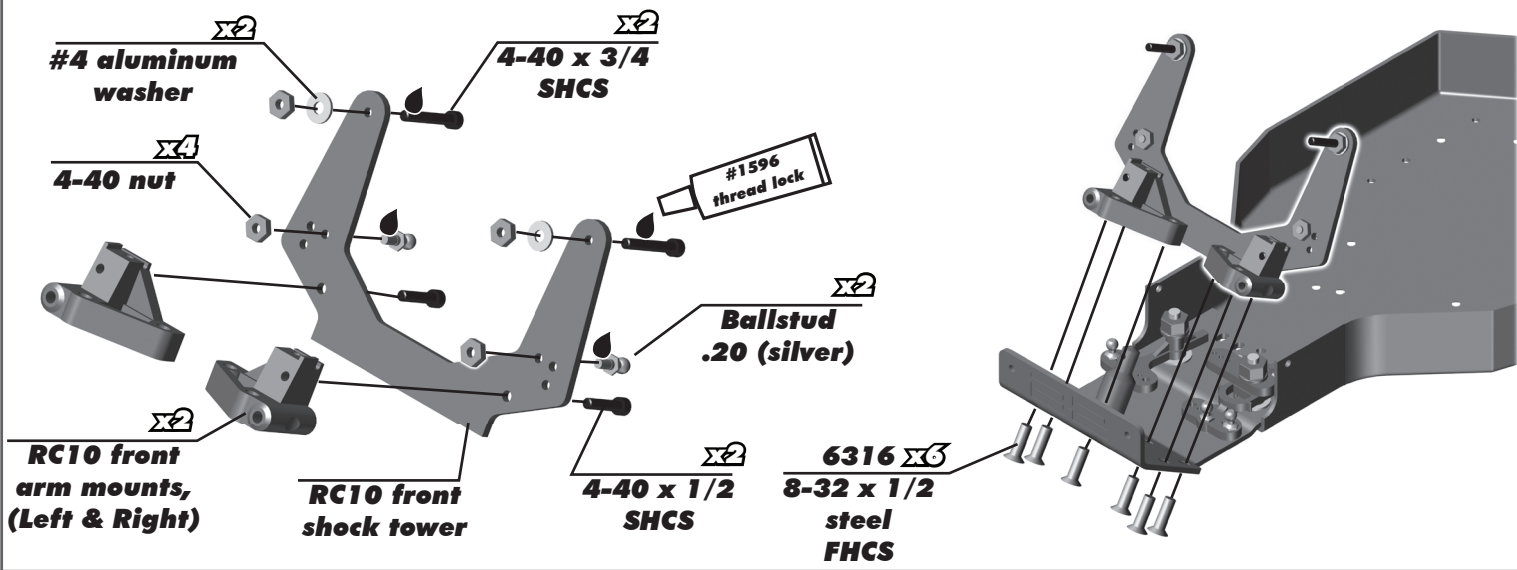
:: Front Suspension Build - Bag B - Step 1



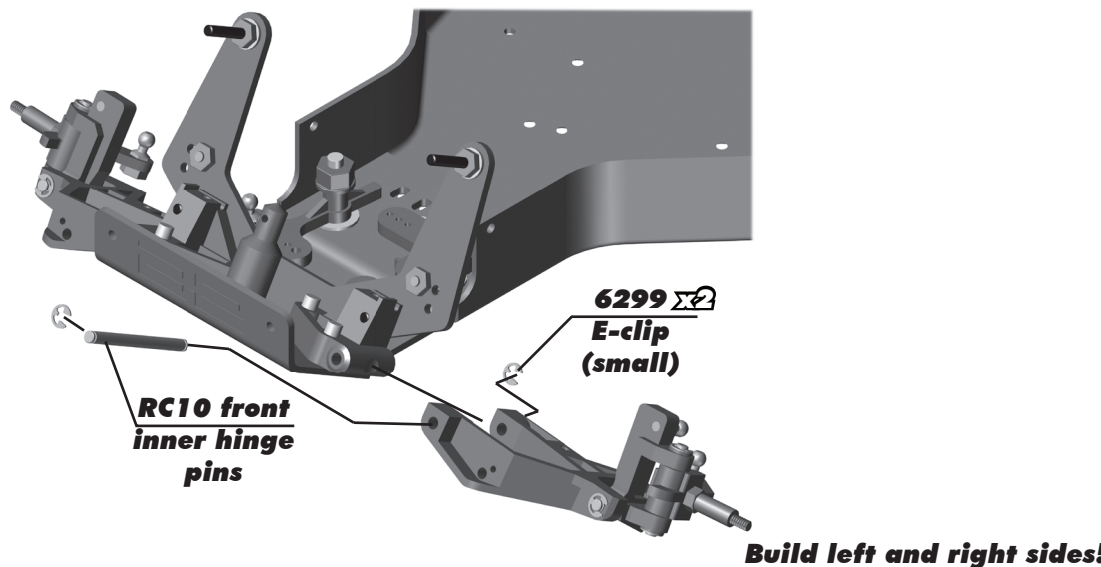
:: Front Suspension Build - Bag B - Step 2



:: Front Suspension Build - Bag B - Step 3

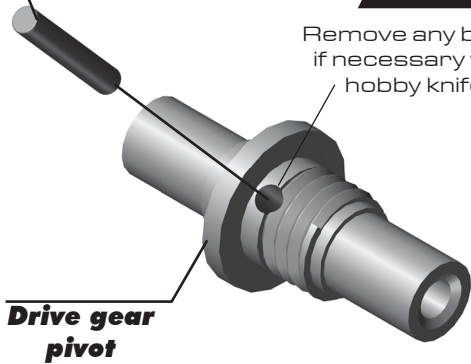


:: Front Suspension Build - Bag B - Step 4

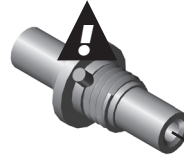


:: Transmission Build - Bag C - Step 1

Drive gear pivot pin



Remove any burrs if necessary with hobby knife!



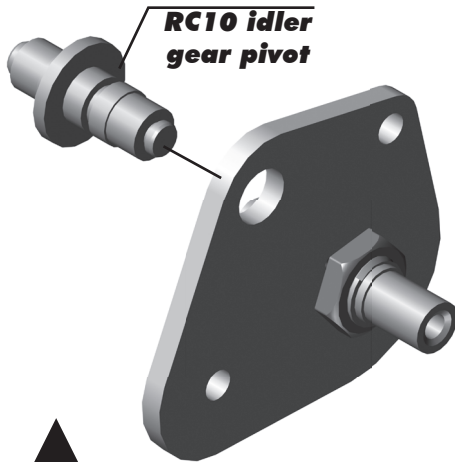
Key drive gear pin into slot on spine plate!

RC10 spine plate

Drive gear pivot nut

#1596 thread lock

:: Transmission Build - Bag C - Step 2

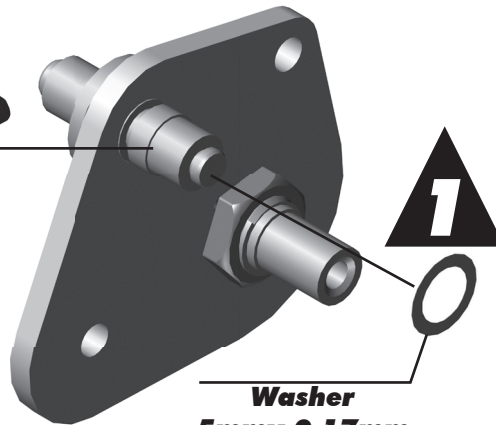


RC10 idler gear pivot

Bowed e-clip



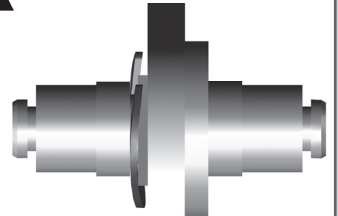
NOTE: Install washer [1] before bowed e-clip [2]



Washer 5mm 0.17mm



Curved side of bowed E-Clip should point outwards!

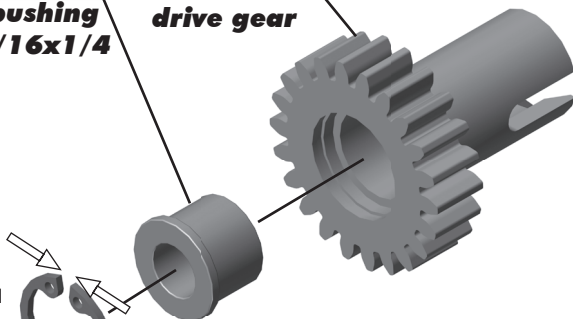


! Racer's Tip: Use a small amount of CA glue on idle pivot hole.

:: Transmission Build - Bag C - Step 3

Oilite bushing 3/16x5/16x1/4

RC10 axle drive gear



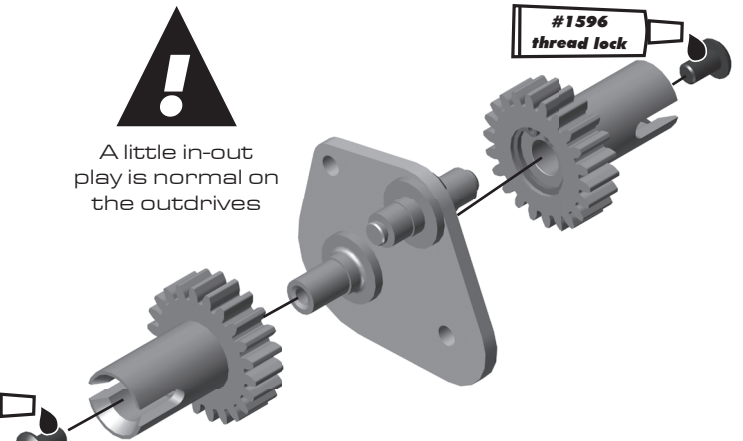
Snap internal retaining clip into groove with internal snap ring pliers!

RC10 internal retaining clip

Build 2

! A little in-out play is normal on the outdrives

#1596 thread lock



4-40 x 3/16 BHCS

#1596 thread lock

:: Transmission Build - Bag C - Step 4

Oilite bushing
3/16x5/16x1/8

RC10 idler gear

6299 E-clip (small)

0-80 x 3/16 BHCS

Build 2

Carefully tighten screws in x-pattern!

:: Transmission Build - Bag C - Step 5

RC10 diff shaft and pinion

RC10 diff thrust washers (small & large)

RC10 diff pinion

RC10 bearing adapter

Oilite bushing
1/4 x 3/8 x 1/8

RC10 diff tube w/hub

Bushing

RC10 diff thrust bearing

RC10 diff bushing

Use just enough black grease to cover the balls on the thrust bearing!

Use #6636 silicone lube on the inside of diff pinion

Slip the gear onto the tube and tap the assembly together using the handle of a hammer or a plastic handle of a screwdriver. Do not use a vise!

:: Transmission Build - Bag C - Step 6

Spur gear
81T, 48P

#6636 silicone lube

1/8 diff balls

Apply silicone grease into each hole of the spur gear before inserting diff balls. Insert diff balls opposite of stamped number on spur gear. Make sure they are evenly covered in lube!

Caution:
Do not get any grease on the back side of the diff drive rings or the diff hub.

Diff drive rings

Make sure diff rings sit flat on hub!

:: Transmission Build - Bag C - Step 7

Caution:
Do not get any grease on the back side of the diff drive rings or the outer hub.

RC10 diff outer hub

Diff drive rings

RC10 diff spring

5-40 locknut

Make sure diff rings sit flat on hub!

Tighten locknut until spring is fully compressed, then back out until lock nut is flush with shaft end. Adjust as necessary.

:: Transmission Build - Bag C - Step 8

1

RC10 motor plate, Green

RC10 transmission case (left)

RC10 transmission case (right)

RC10 bearing adapter

6299 E-clip (small)

Oilite bushing 3/16 x 5/16 x 1/8

2

Cutting a slot in the bearing adapter will make e-clip installation easier!

:: Transmission Build - Bag C - Step 9

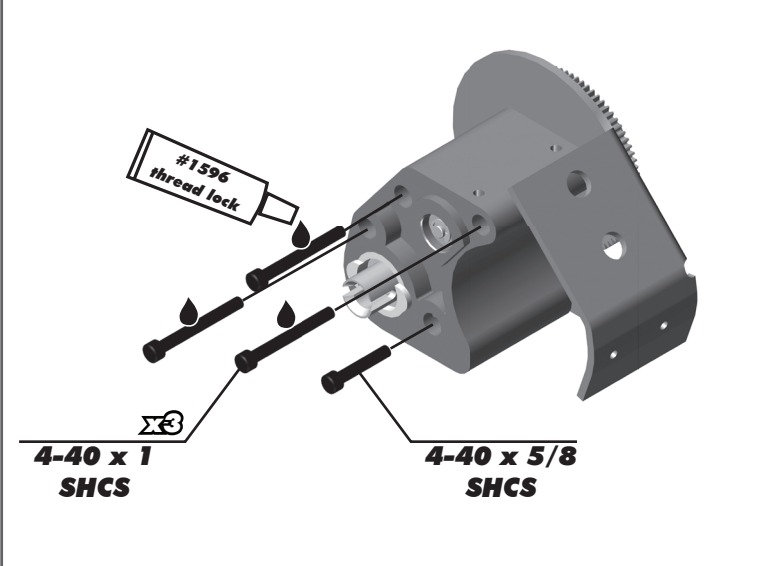
RC10 felt

RC10 felt seal

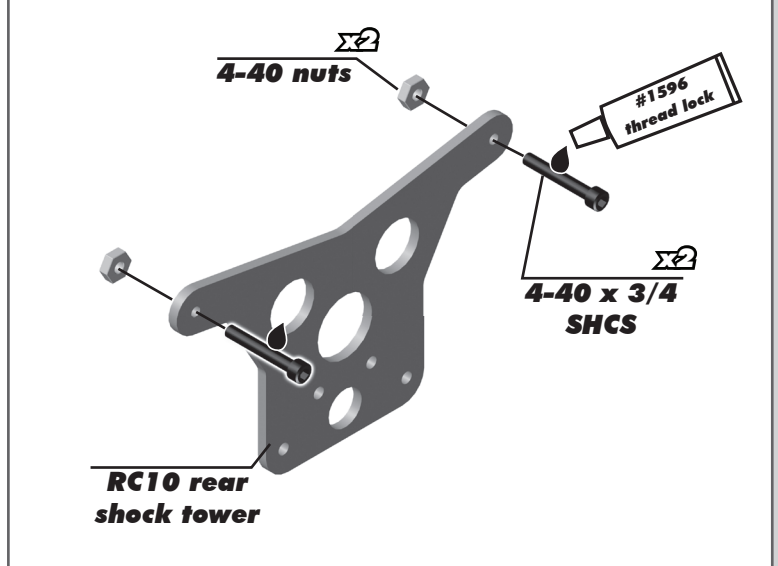
4-40 plain nut (small)

Press nut all the way inside the transmission case.

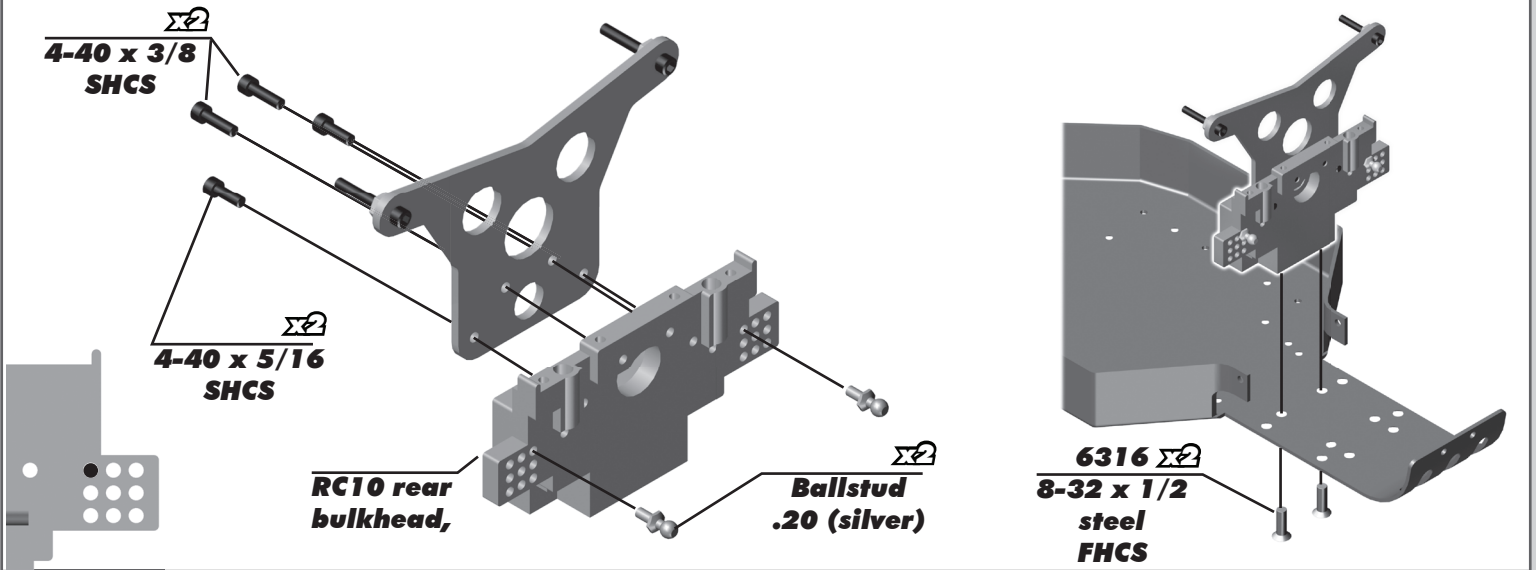
:: Transmission Build - Bag C - Step 10



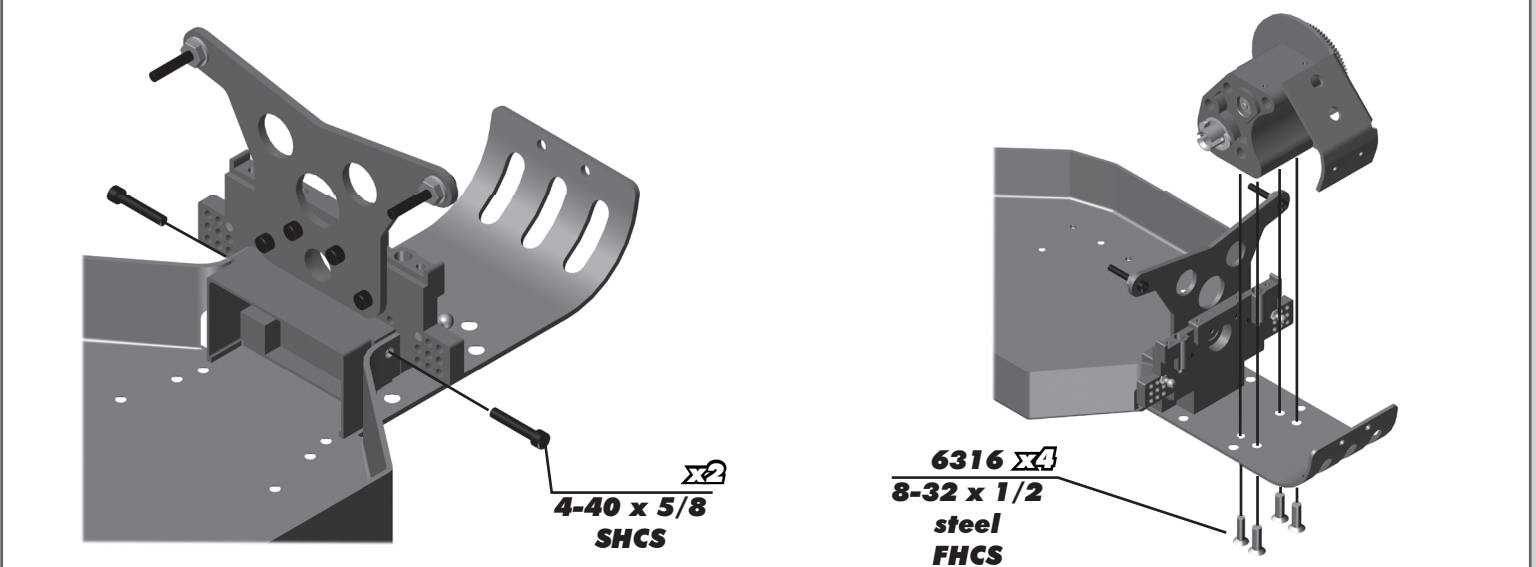
:: Rear Bulkhead Build - Bag D - Step 1



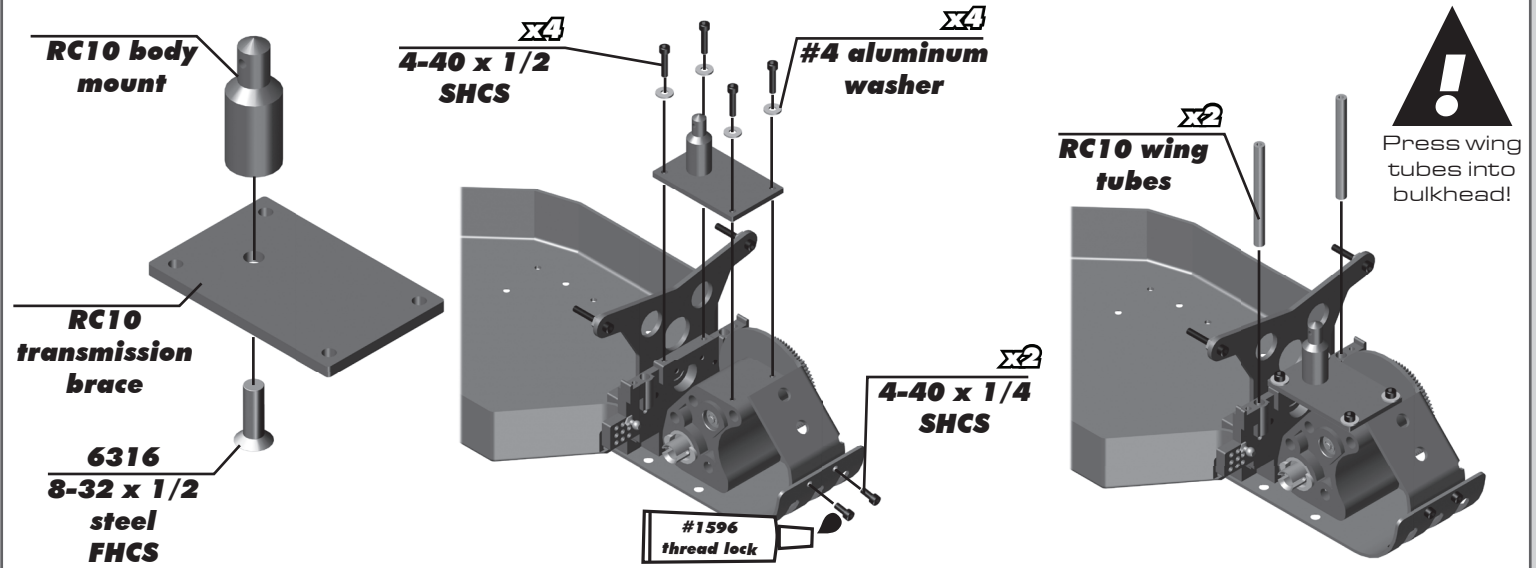
:: Rear Bulkhead Build - Bag D - Step 2



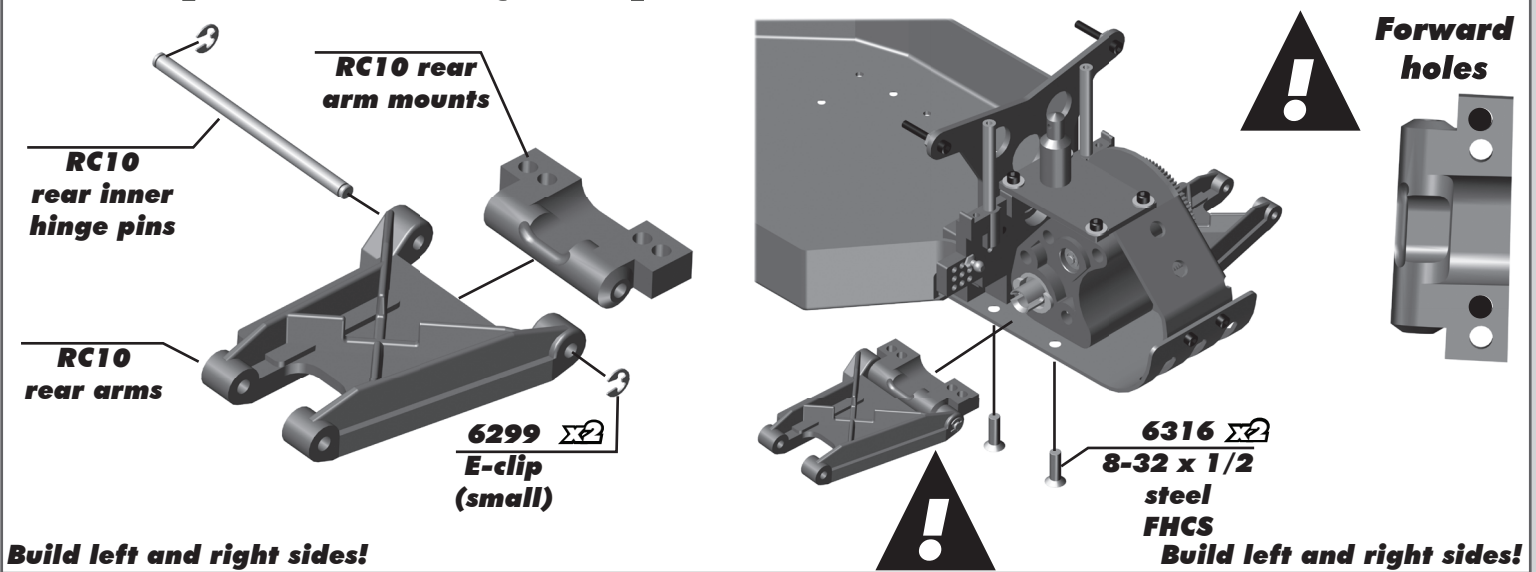
:: Rear Bulkhead Build - Bag D - Step 3



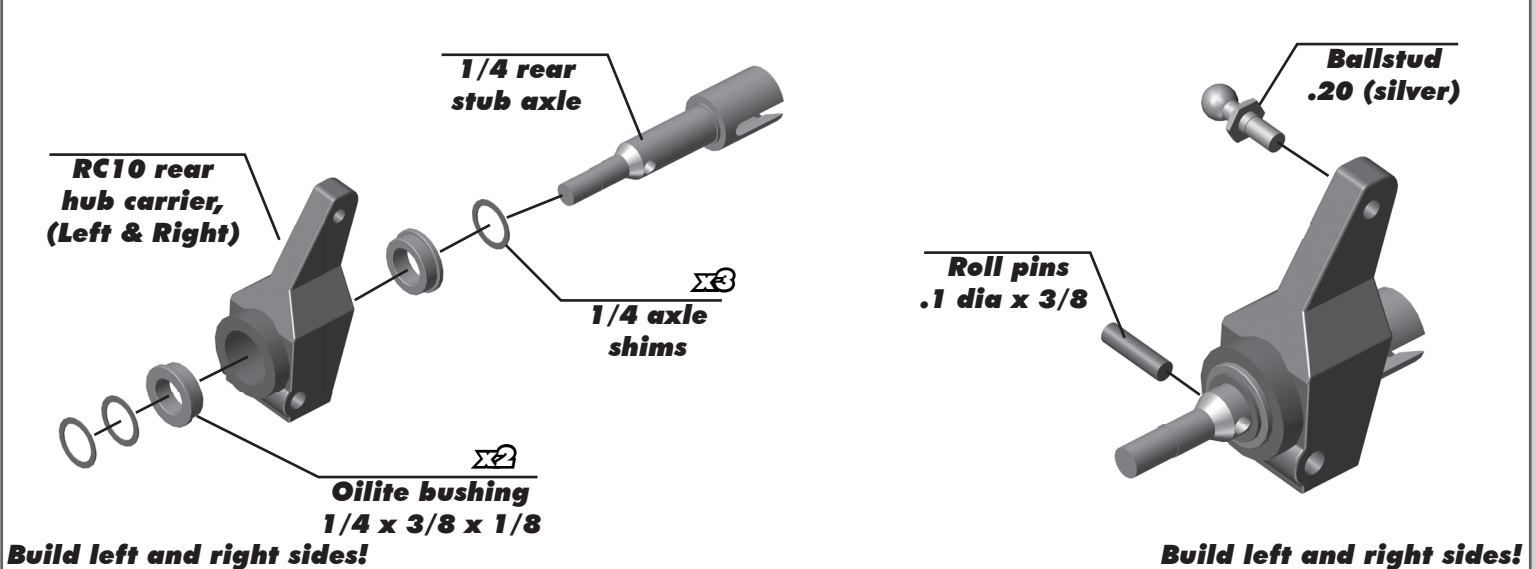
:: Rear Bulkhead Build - Bag D - Step 4



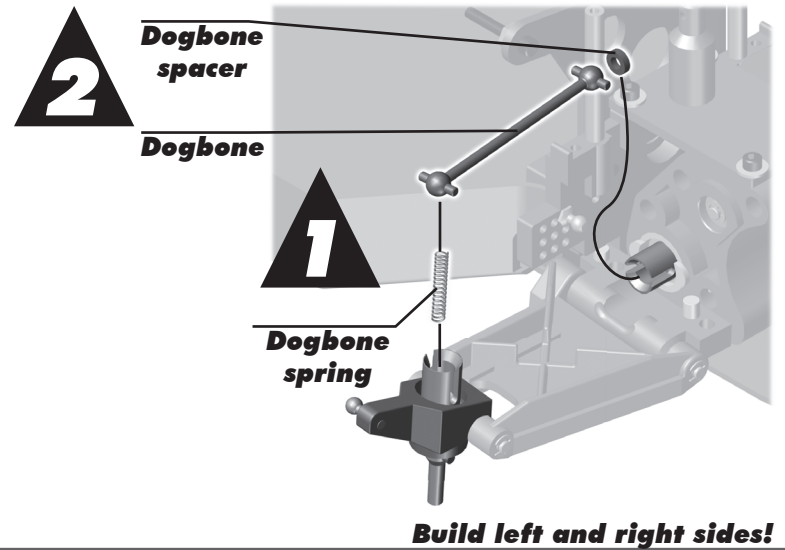
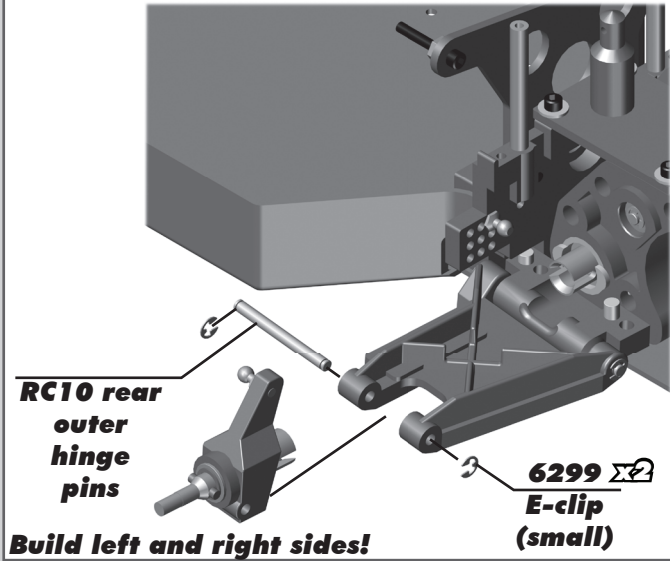
:: Rear Suspension Build - Bag E - Step 1



:: Rear Suspension Build - Bag E - Step 2



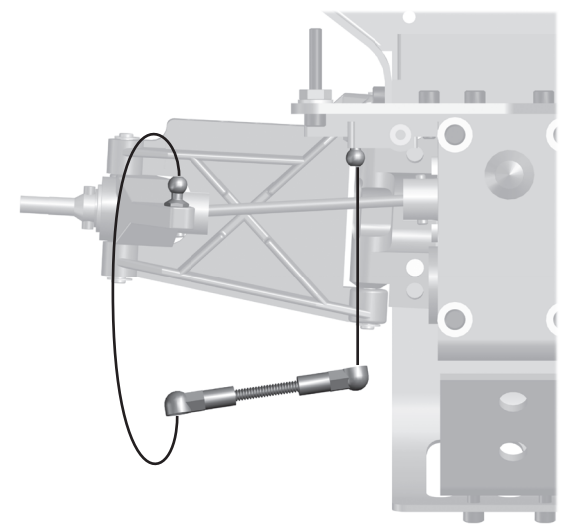
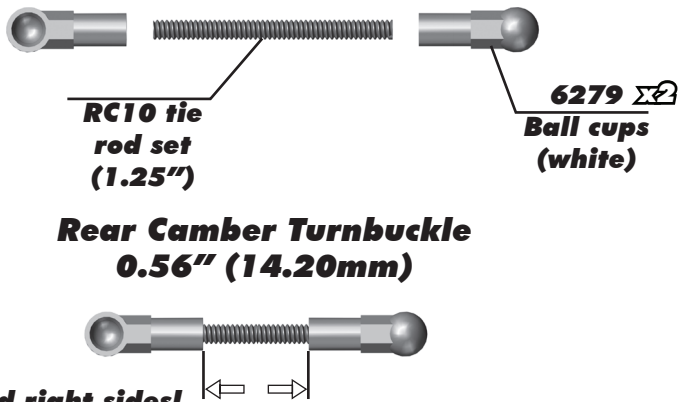
:: Rear Suspension Build - Bag E - Step 3



:: Turnbuckles Build - Bag F - Step 1



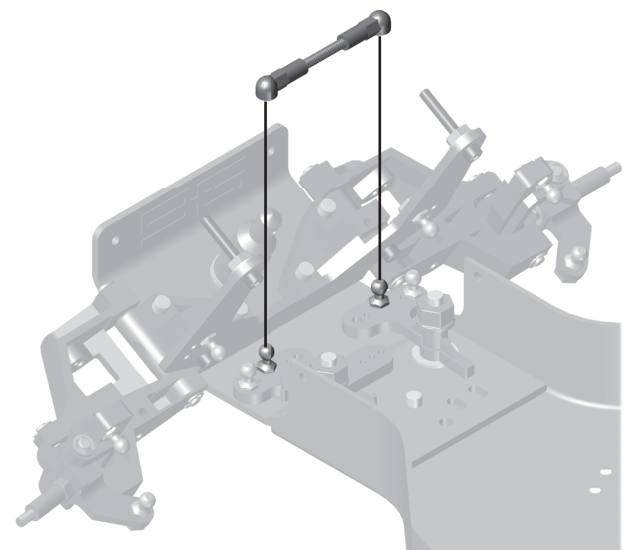
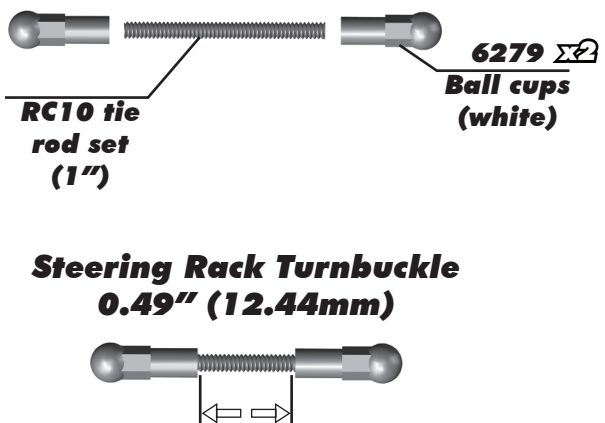
Use a pair of pliers or wire cutters to carefully hold the turnbuckle while threading on ball cups.



:: Turnbuckles Build - Bag F - Step 2



Use a pair of pliers or wire cutters to carefully hold the turnbuckle while threading on ball cups.



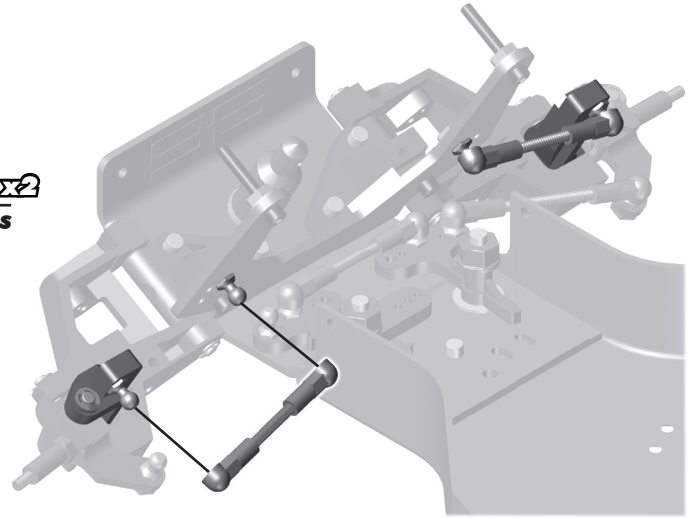
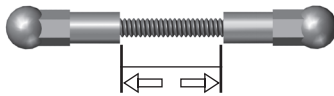
:: Turnbuckles Build - Bag F - Step 3



Use a pair of pliers or wire cutters to carefully hold the turnbuckle while threading on ball cups.



Front Camber Turnbuckle
0.53" (13.5mm)

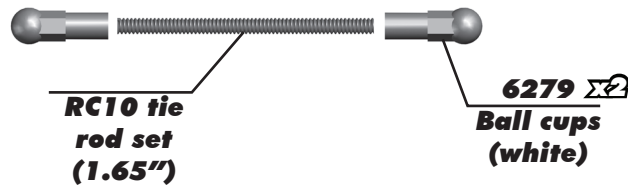


Build left and right sides!

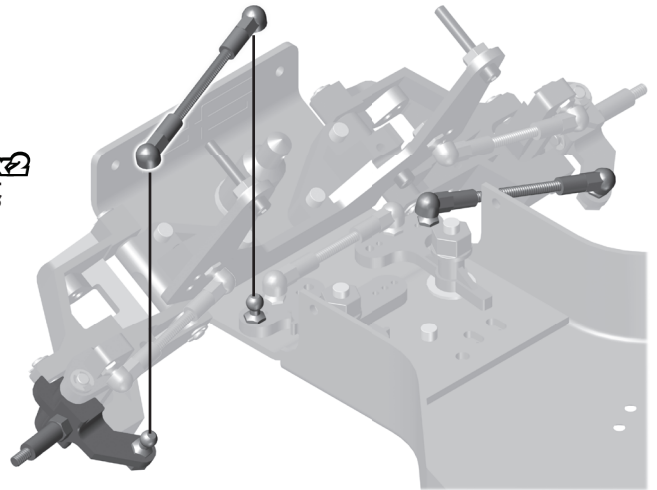
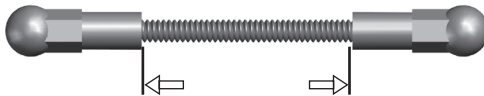
:: Turnbuckles Build - Bag F - Step 4



Use a pair of pliers or wire cutters to carefully hold the turnbuckle while threading on ball cups.



Steering Turnbuckle
1.09" (27.70mm)

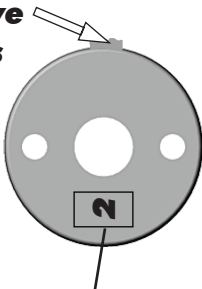


Build left and right sides!

:: Shocks Build - Bag G - Step 1

Remove spurs

Piston



Piston number here
Use #2 = front shocks
Use #2 = rear shocks

6299 E-clip (small)

Shock shaft, front (0.56)

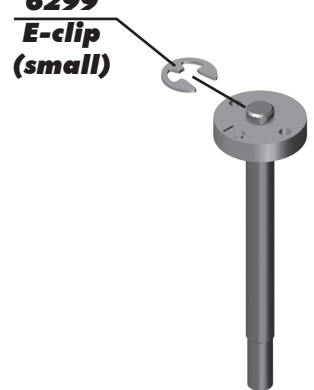
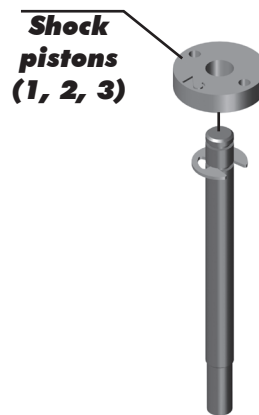
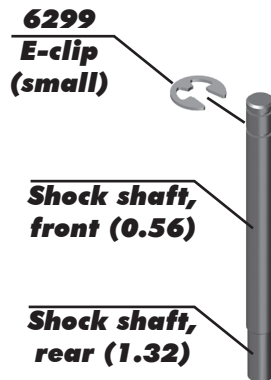
Shock shaft, rear (1.32)

Shock pistons (1, 2, 3)

6299 E-clip (small)

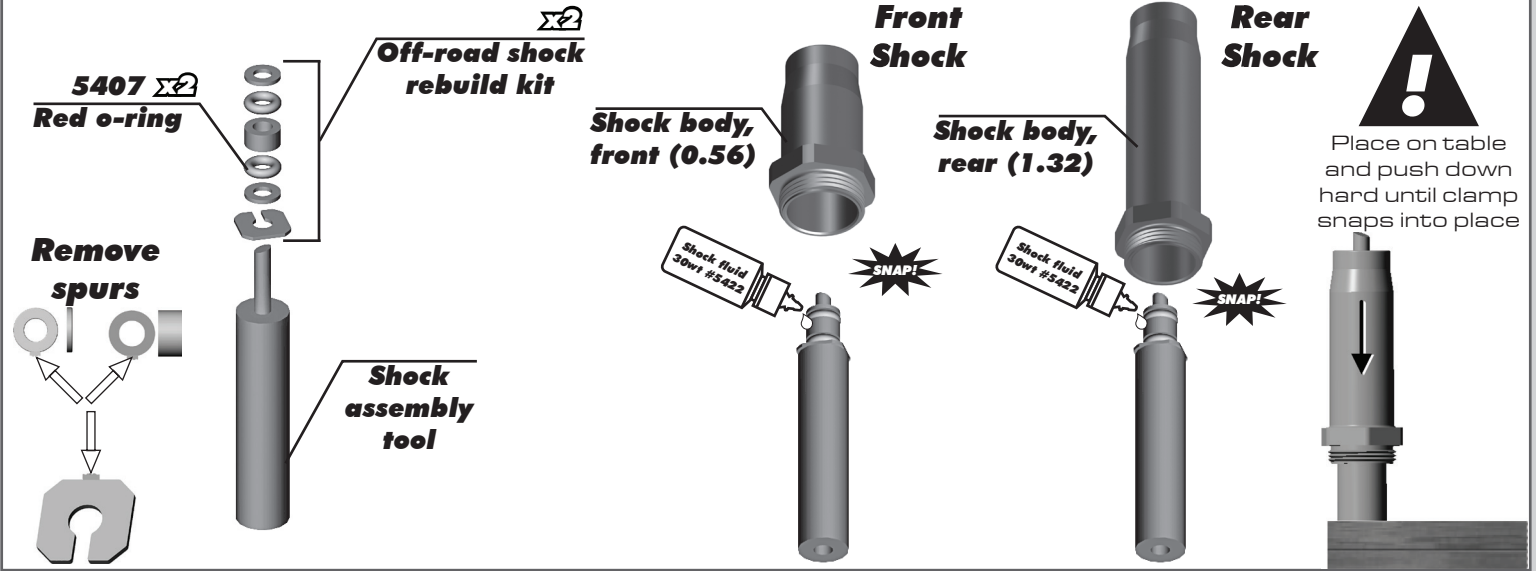


TIP: Use marker to mark the piston numbers for easy identification!

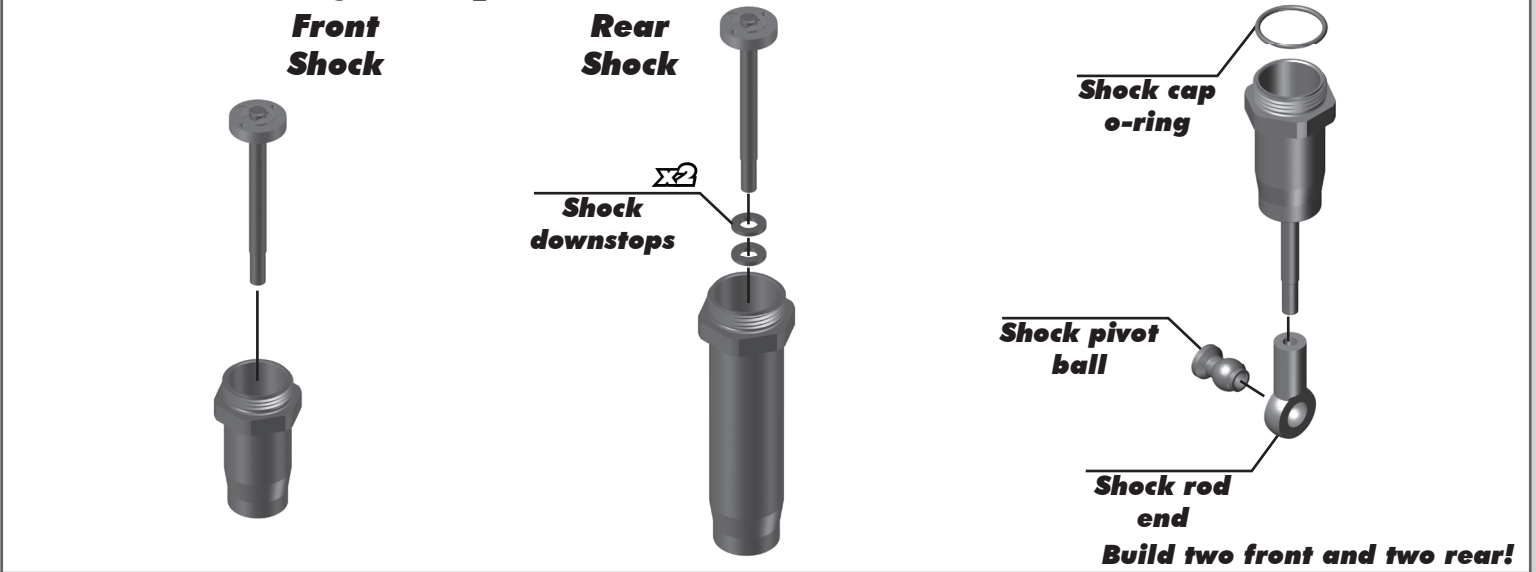


Build two front and two rear!

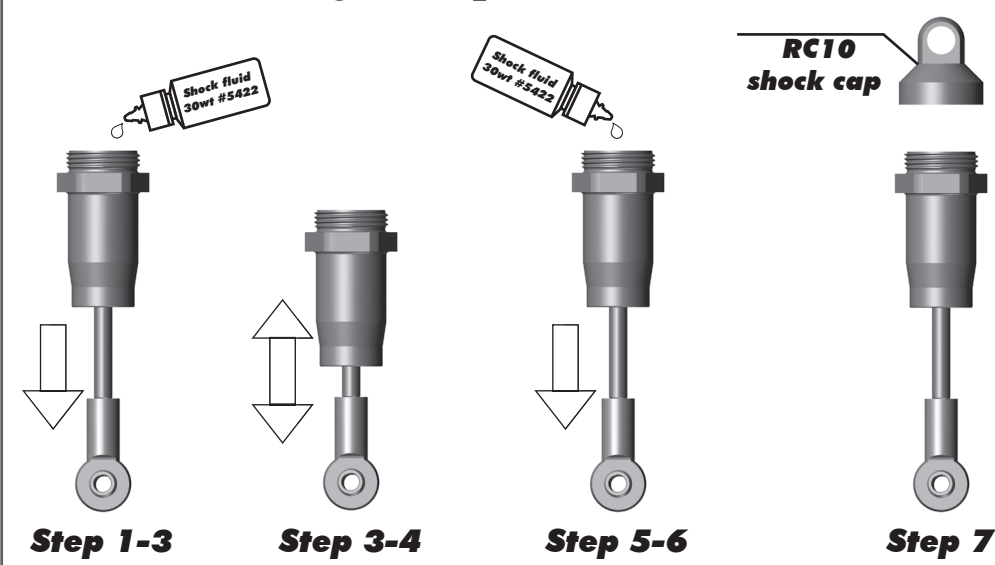
:: Shocks Build - Bag G - Step 2



:: Shocks Build - Bag G - Step 3



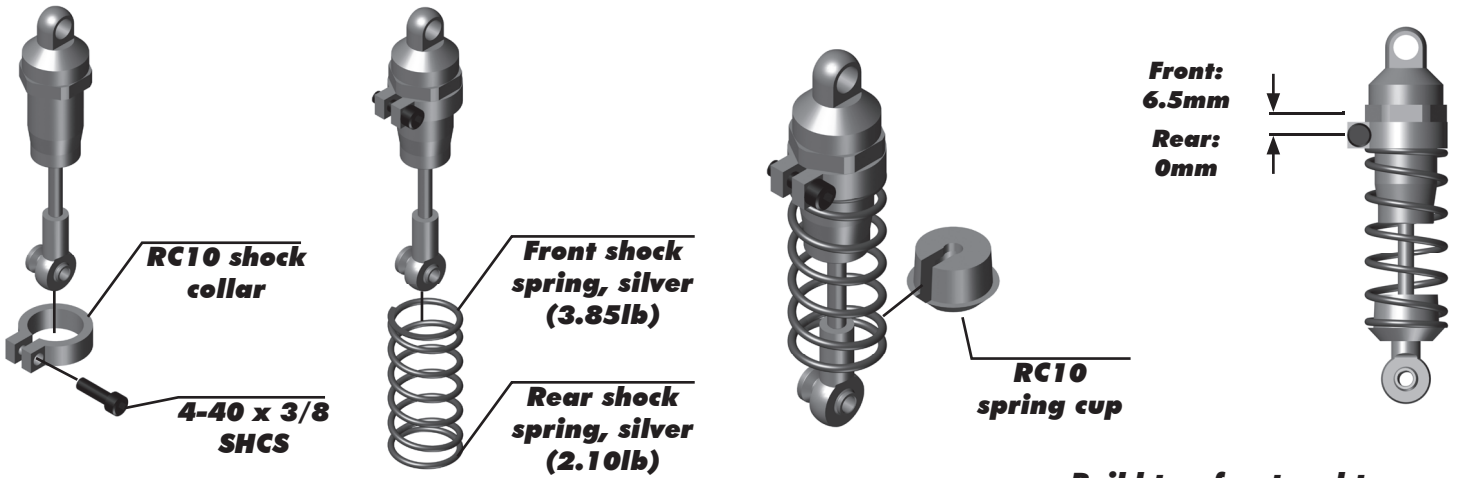
:: Shocks Build - Bag G - Step 4



* Shock Bleeding Steps:

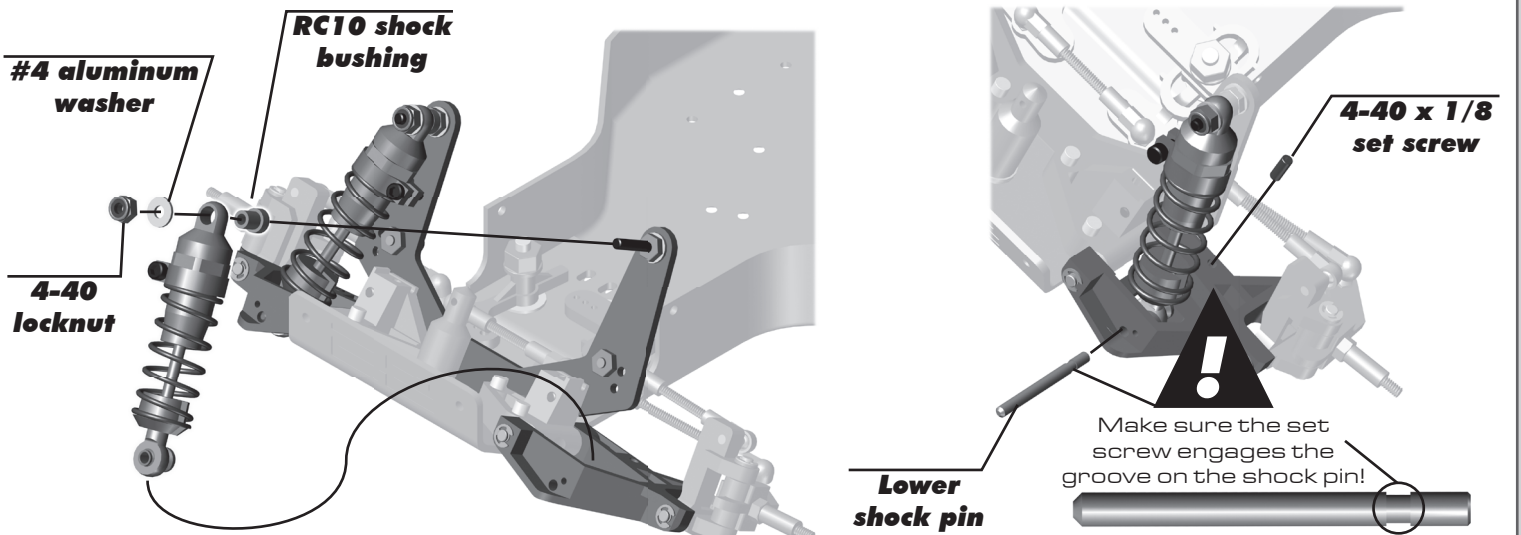
1. Pull shock shaft down.
2. Fill shock body 3/4 full with silicone fluid.
3. Slowly move the shock shaft up and down to remove air from under piston.
4. Wait for bubbles to come to surface.
5. Fill shock body to top with silicone fluid.
6. Place several drops of oil in the cap and on cap threads.
7. 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 thru 11.

:: Shocks Build - Bag G - Step 5



Build two front and two rear!

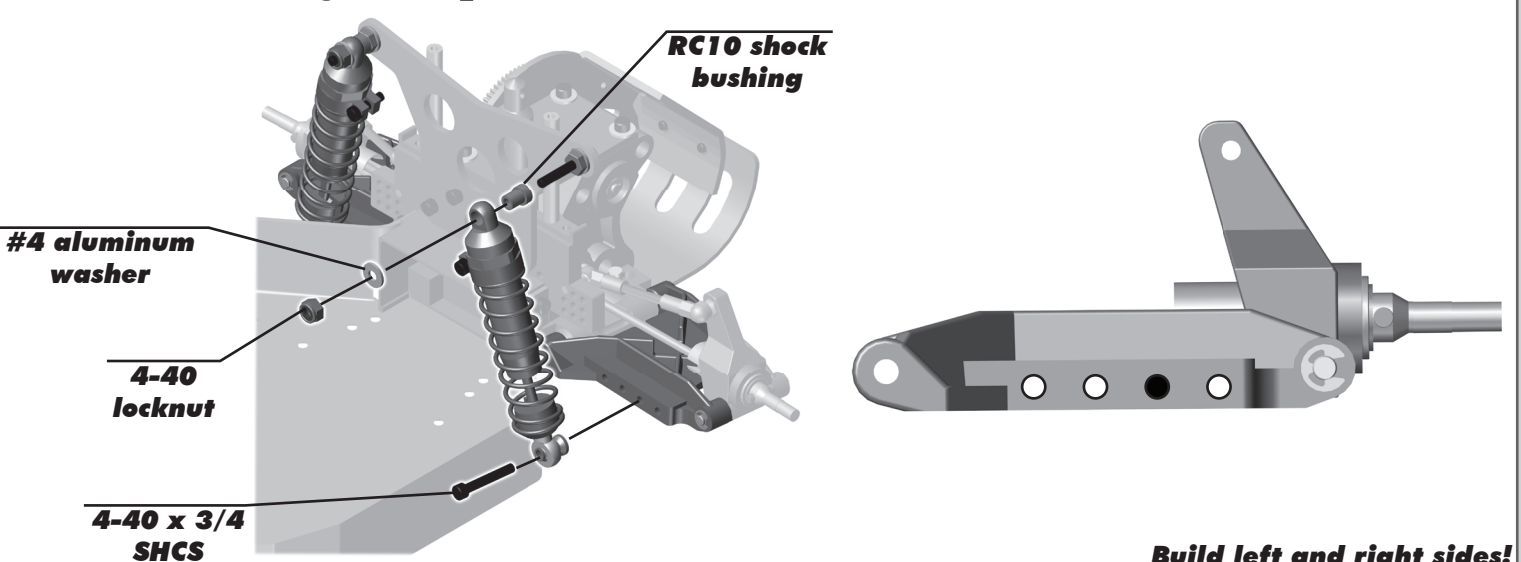
:: Shocks Build - Bag G - Step 6



Build left and right sides!

Build left and right sides!

:: Shocks Build - Bag G - Step 7



Build left and right sides!

:: Chassis Build - Bag H - Step 1

2

1

RC10 nose brace tubes

4-40 x 3/8 BHCS

4-40 x 1/4 BHCS

#1596 thread lock

6338 Antenna tube and cap

RC10 antenna mount

4-40 x 3/8 FHCS

Build left and right sides!

:: Electronics Build - Bag I - Step 1

#4 aluminum washer

RC10 battery cup and strap

4-40 x 1/2 SHCS w/hole **x2**

4-40 x 1/8 set screw **x2**

1/8 set collar **x2**

#1596 thread lock

Z bend servo wire **x2**

!

Wires may need to be bent slightly to clear some servos, depending on configuration!

:: Electronics Build - Bag I - Step 2

!

Align Z-bend wires so that the set screw tightens down on both wires at once!

RC10 servo mounts **x2**

Servo not included!

#4 aluminum washer **x4**

4-40 x 3/8 SHCS **x4**

Servo horn and screw not included!

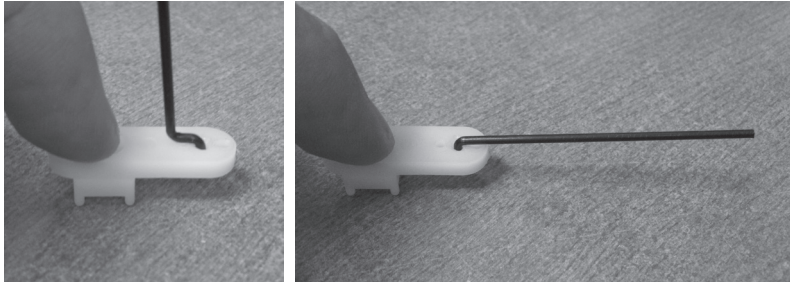
89007 Servo horn (recommended)

:: Electronics Build - Bag 1 - Step 3

Follow steps below to properly install Z bend wire into servo horn and steering link.

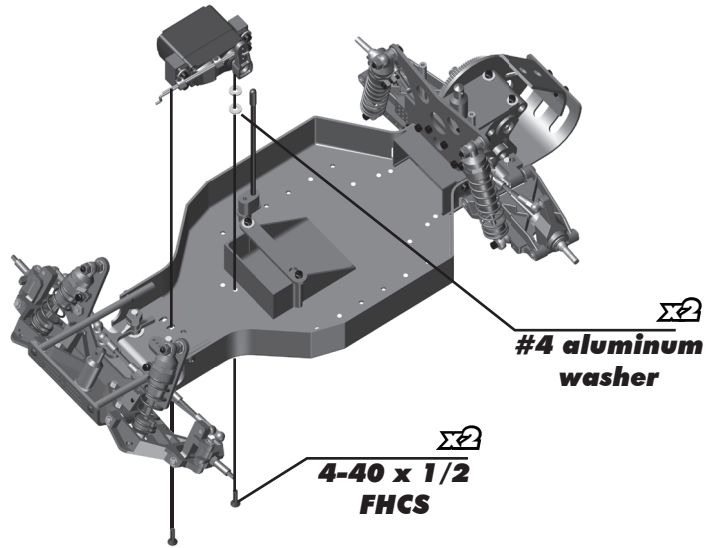


NOTE: Hole choice may vary depending on servo and servo horn used.

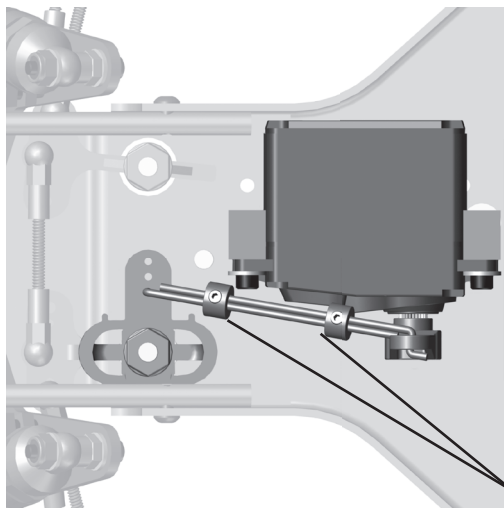


- 1) Press down on the Z bend wire....
- 2) Rotate the wire so the Z bend wire is fully installed into steering link as shown.

TIP: Chamfering the top of the hole slightly will help to press in Z bend wire.



:: Electronics Build - Bag 1 - Step 4

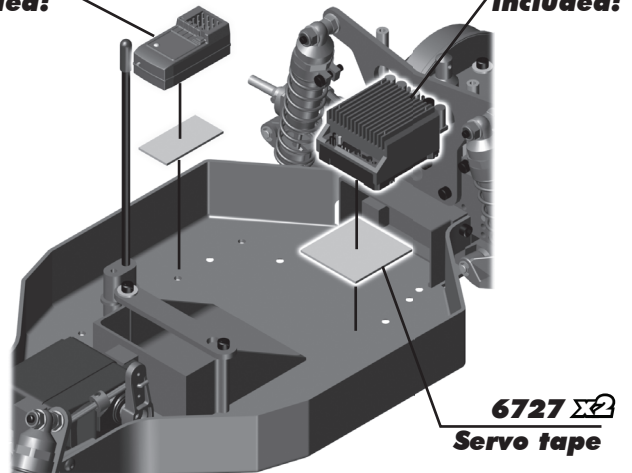


Install Z bend servo wire into steering bellcrank as shown. Ensure that full steering throw can be achieved with your servo horn setup!

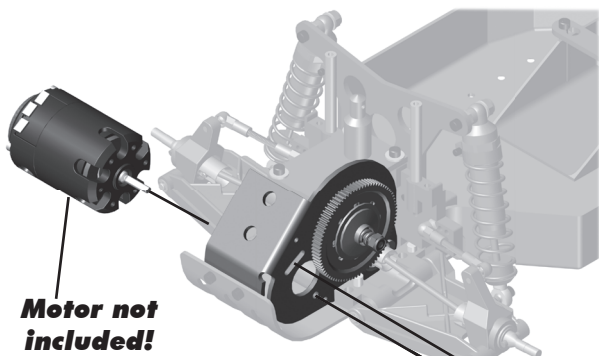
Space collars as wide as possible while still clamping both wires.

Receiver not included!

ESC not included!



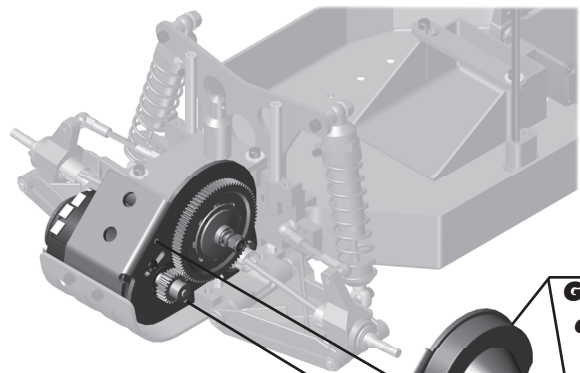
:: Electronics Build - Bag 1 - Step 5



Motor not included!

Pinion not included!

31531 3 x 6mm BHCS

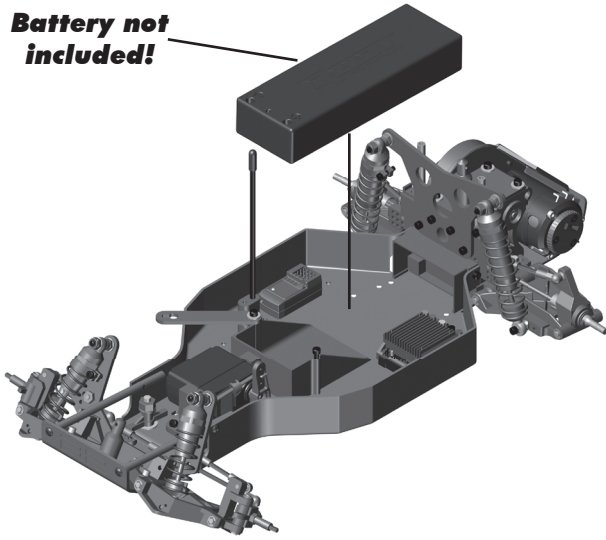


Gear cover and plug

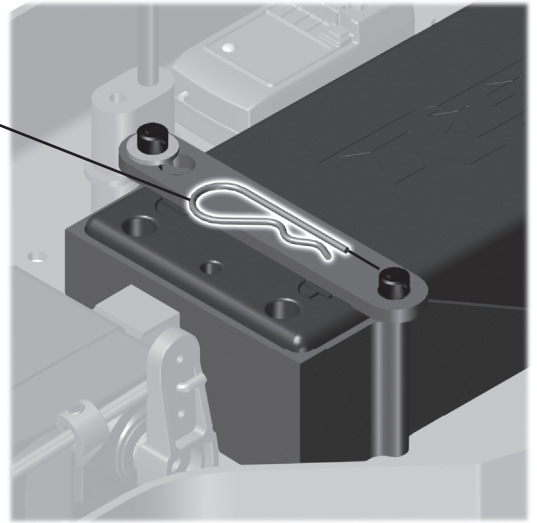
4-40 x 3/16 BHCS

:: Electronics Build - Bag I - Step 6

Battery not included!



**6332
Body clip**



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

TIP: For faster motors, it is recommended to glue the tire bead to the wheels!

**x5
Plain nut**



Pro Tip!
Front tires may fit tight on the front wheels. Use a drop of water to lubricate the tire bead during installation.

Build 2

**6395
Jay Halsey front wheels, Chrome**

**6395
Jay Halsey front wheels, Chrome**



Do not overtighten wheel screws!

**6393
RC10 front knobby tire**

**x5
4-40 x 5/16
SHCS**

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

TIP: For faster motors, it is recommended to glue the tire bead to the wheels!



Use optional wheel insert for aftermarket vintage tires!

**6314
RC10 rear tire**

**6396
RC10 rear wheel, Chrome**



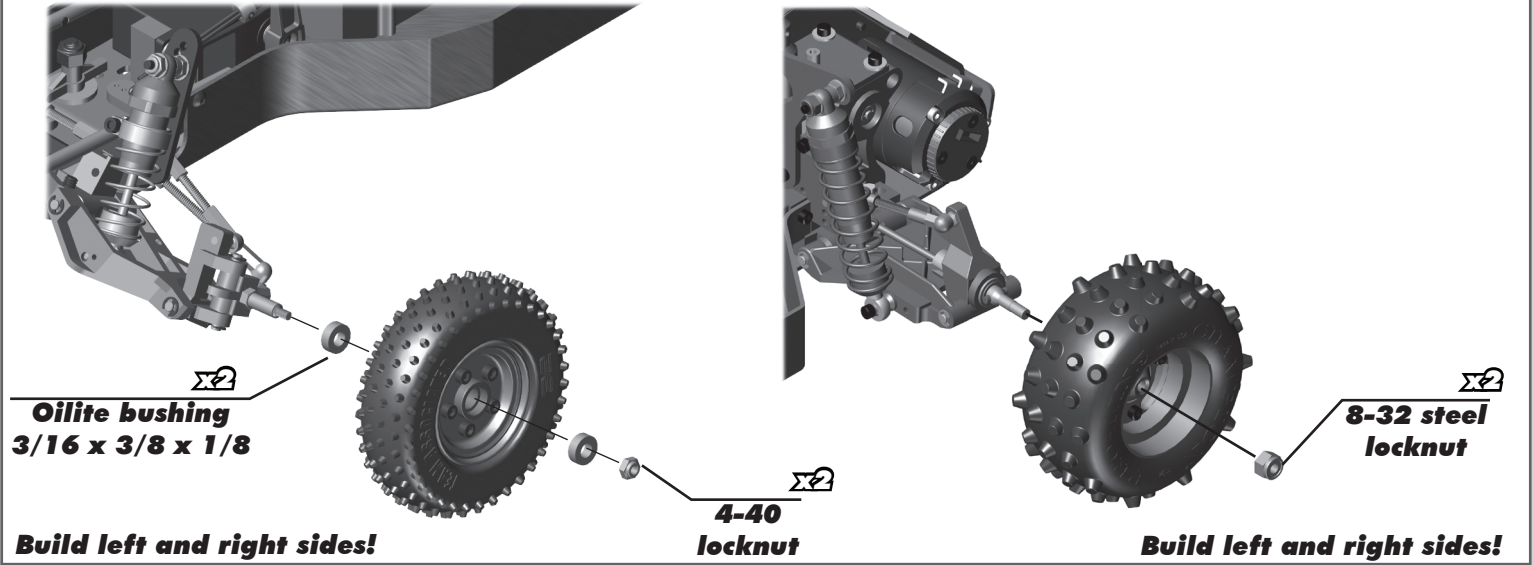
Do not overtighten wheel screws!

**6396
RC10 rear wheel, Chrome**

**x3
4-40 x 5/16
SHCS**

Build 2

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



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

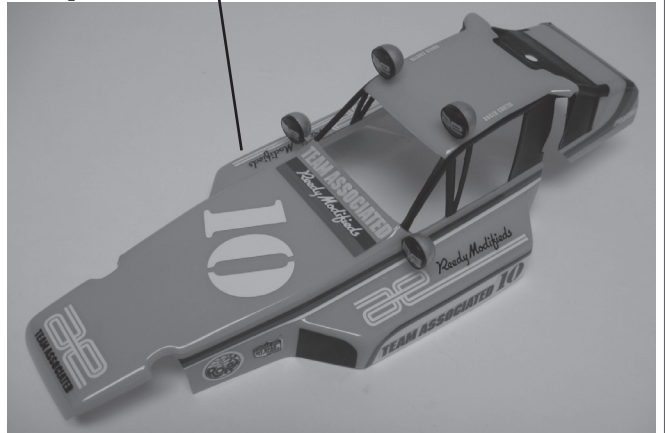
Painting Tips:

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 RC 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 Protec
Buggy body,
unpainted



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

Light Buckets:

Press the light bucket halves together. Install light buckets with 2-56 x 3/16 SHCS in areas shown.



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



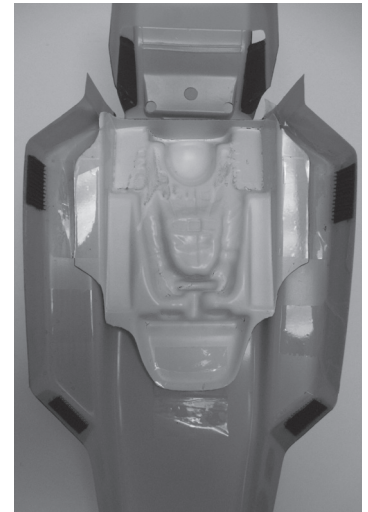
:: Wheels / Tires and Body - Bag J - Step 6

Painting Tips:

Driver :
Your RC 10 Kit comes with a clear polycarbonate driver figure. You will need to prep the driver figure before you can paint it. Wash the inside and outside thoroughly with warm water and liquid detergent. Dry the driver figure using a clean, soft, lint-free cloth. The driver figure can be painted from the inside or the outside, depending on what type of finish you would like. If painted from the inside, the painted sections will appear glossy. If painted on the outside, the painted sections will appear flat or matte finished. Trim as shown and install inside the body using strapping tape. After painting, cut the body and wing along the trim lines.

NOTE: use ONLY paint that is recommended for use with (polycarbonate) plastics. If you don't, you can destroy the plastic body, driver figure, and wing!!!!.

RC10 driver figure, clear



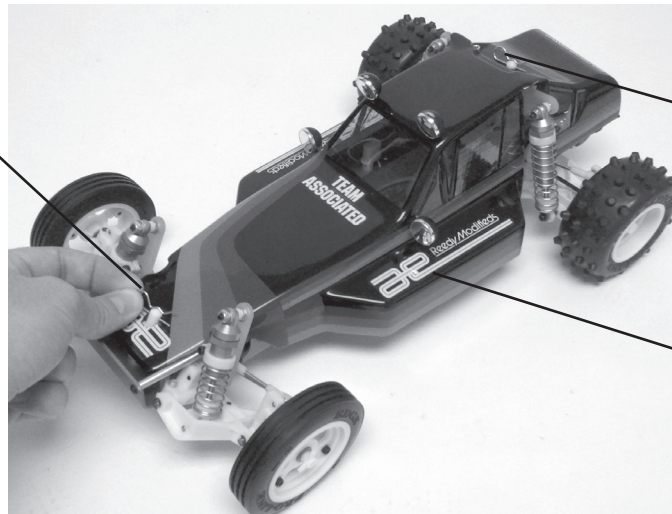
:: Wheels / Tires and Body - Bag J - Step 7

6332 Body clip



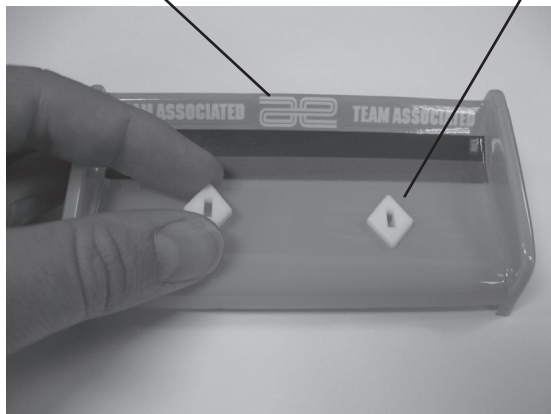
6332 Body clip

RC10 Decal Sheet



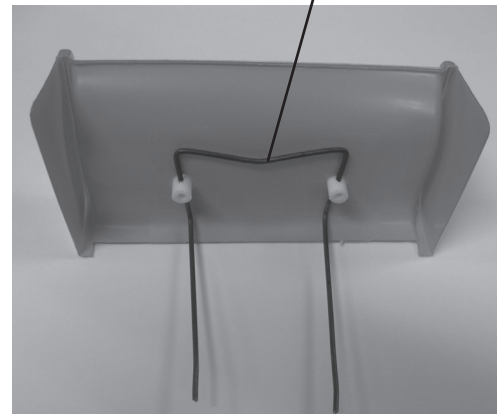
:: Wheels / Tires and Body - Bag J - Step 8

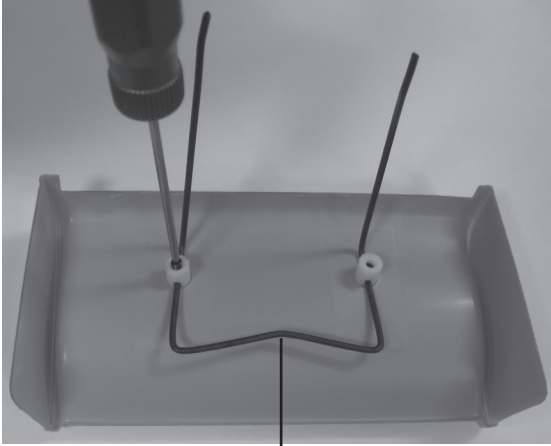
6159 Wing, clear



Wing mounts x2

Wing mount wire



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

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



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

:: Notes

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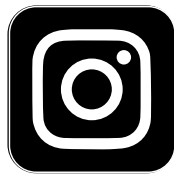
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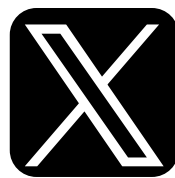
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