

THE FIRST IFMAR OFF ROAD
WORLD CHAMPIONSHIPS

"Jammin' Jay Halsey
1985 IFMAR Off Road Stock World Champion

WORLD CHAMPIONS.



1:10 SCALE ELECTRIC COMPETITION
OFF-ROAD CAR KIT



NOVAH



1985
IFMAR
OFF-ROAD WORLD CHAMPION
STOCK CLASS



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 Jay Halsey RC10 - Kit:

- Black G10 front shock tower
- JG replica front bumper
- Gold anodized 6061-T6 aluminum monocoque tub chassis
- Factory etched with iconic AE logo and Jay Halsey signature!
- Fully adjustable four wheel independent suspension
- Long travel, fluid filled Gold aluminum coil over shocks
- Low profile sealed six-gear transmission
- VariLok adjustable ball differential
- Competition modular wheels
- Knobby front tires just like the ones Jay used at the IFMAR Worlds
- Clear ProTech body with driver figure
- 3-pcs Wing
- New decal sheet

:: 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

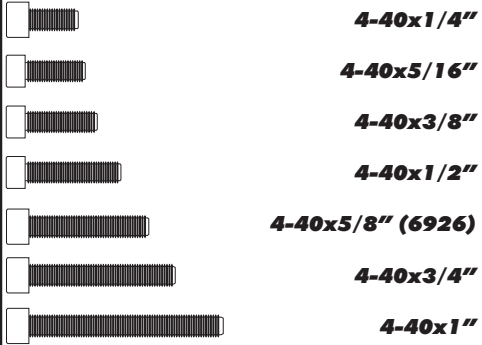
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630



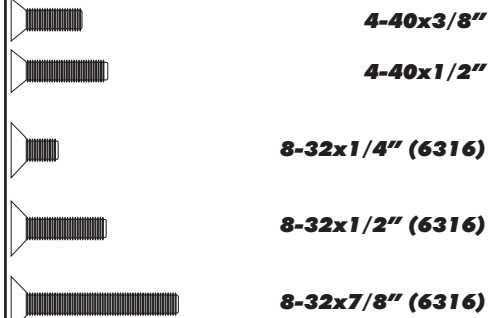
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

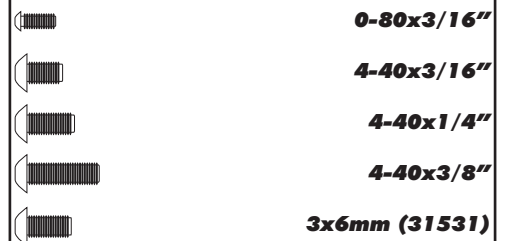
Cap Head (shcs)



Flat Head (fhcs)



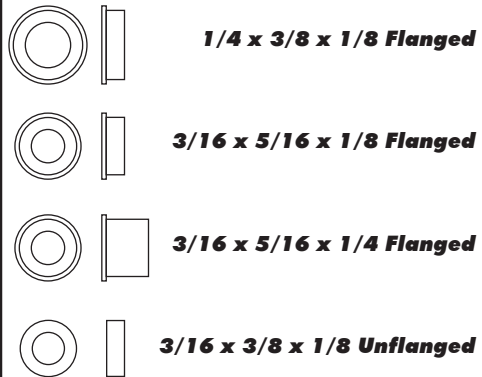
Button Head (bhcs)



Diff Balls



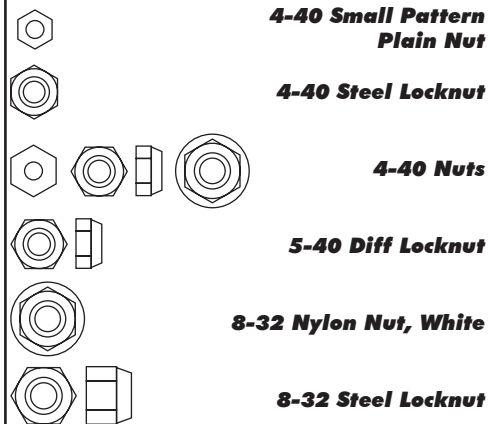
Bushings



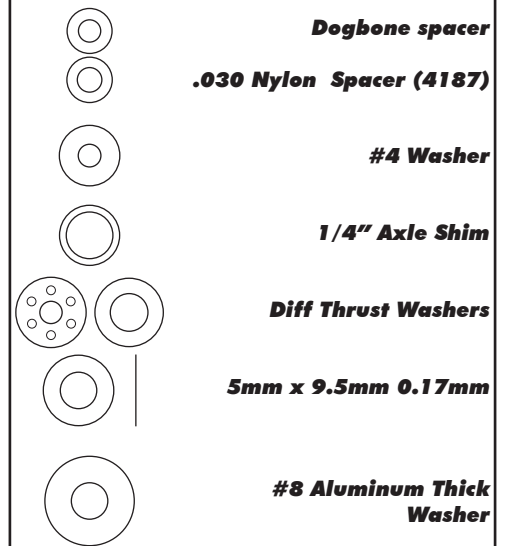
Set Screws



Nuts (lock/plain)



Shims and Washers



Clips



Notes:

:: Table of Contents

1..... Cover	12 - 13..... Turnbuckles Build (Bag F)
2..... Introduction	13 - 15..... Shocks Build (Bag G)
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4..... Table of Contents	16 - 18..... Electronics Build (Bag I)
5..... Nose Plate / Steering Build (Bag A)	18 - 21..... Wheels, Tires and Body Install (Bag J)
5 - 6..... Front Suspension Build (Bag B)	21..... Notes
7 - 10..... Transmission Build (Bag C)	22..... Decal Installation
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.



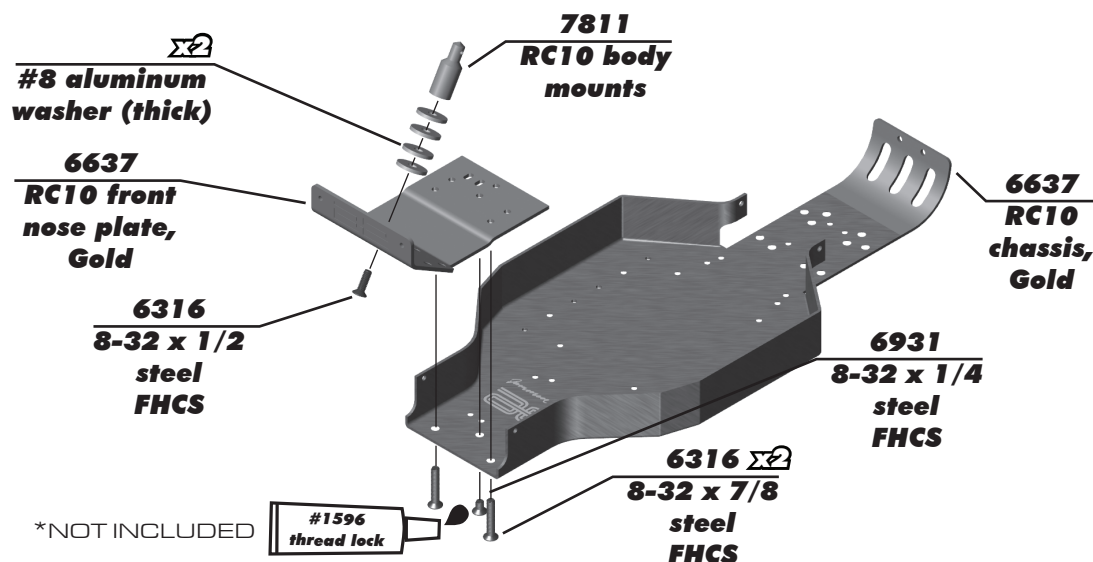
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size.

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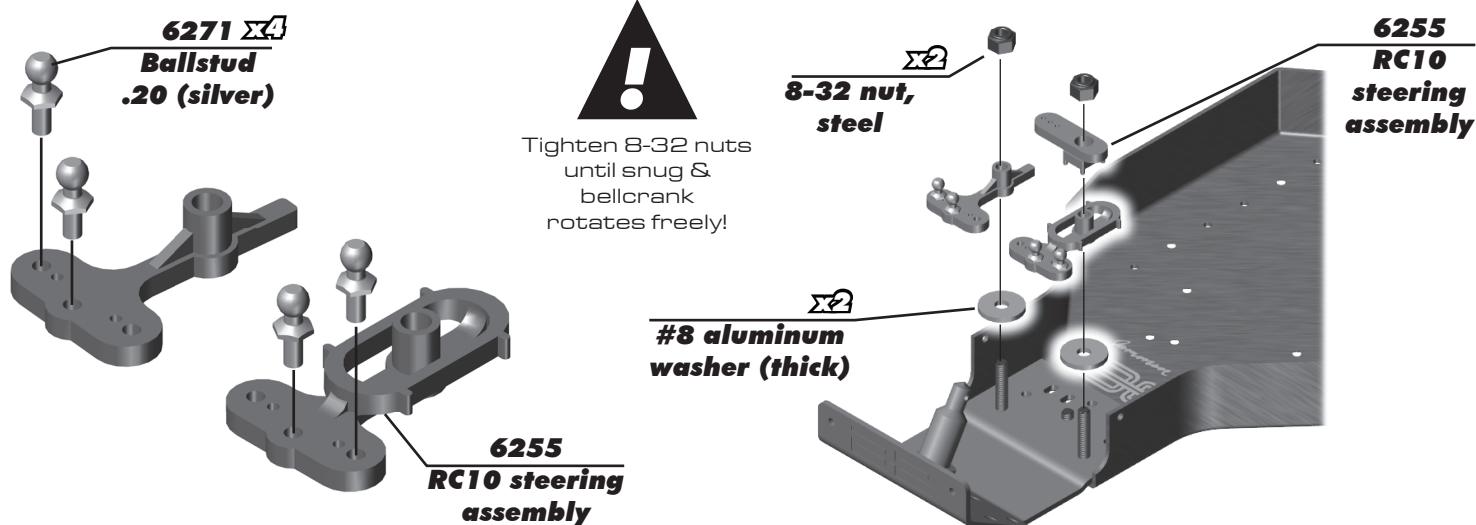


Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

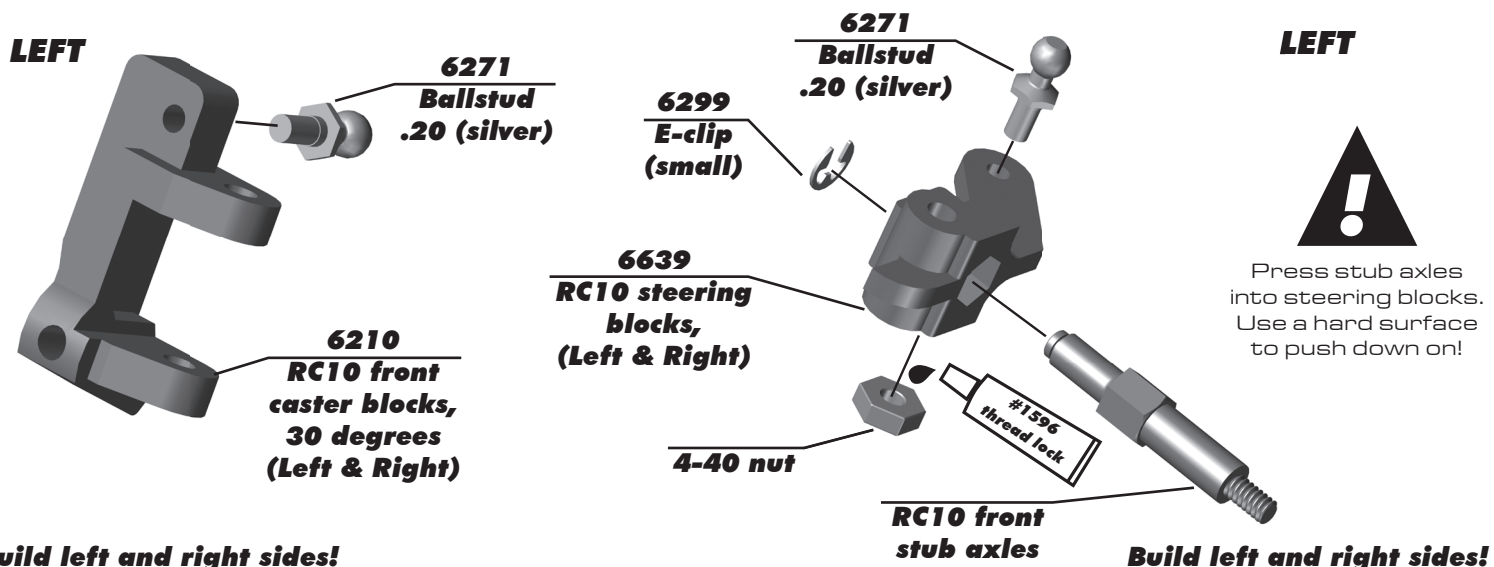
:: Nose Plate / Steering Build - Bag A - Step 1



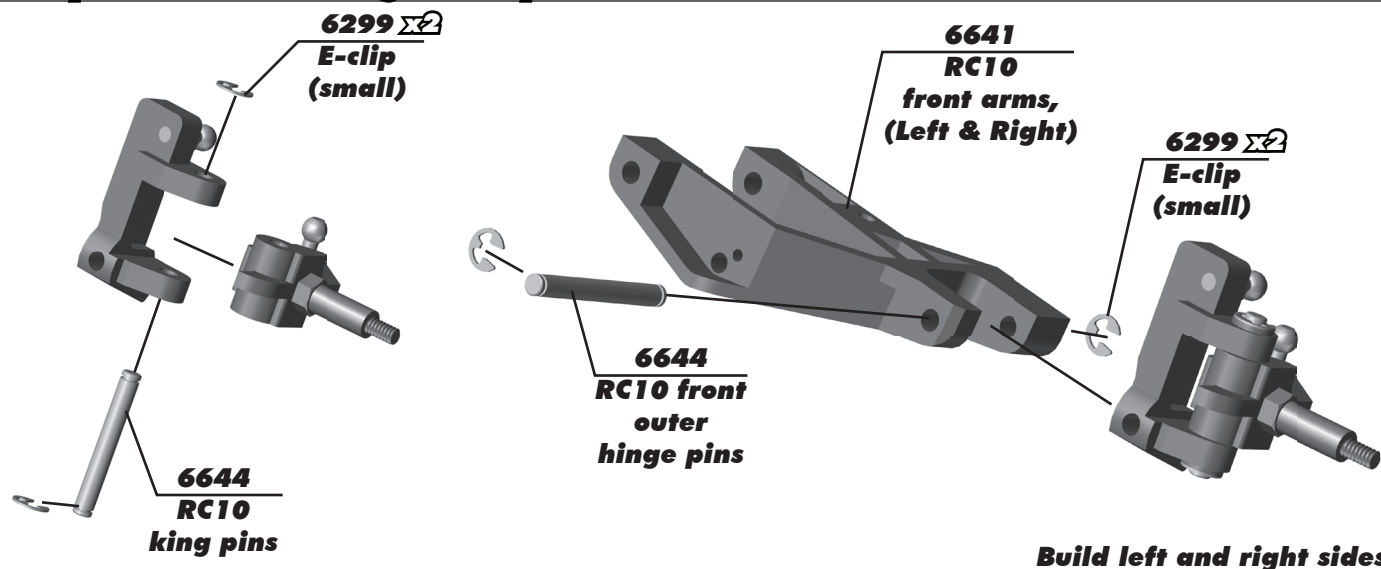
:: Nose Plate / Steering Build - Bag A - Step 2



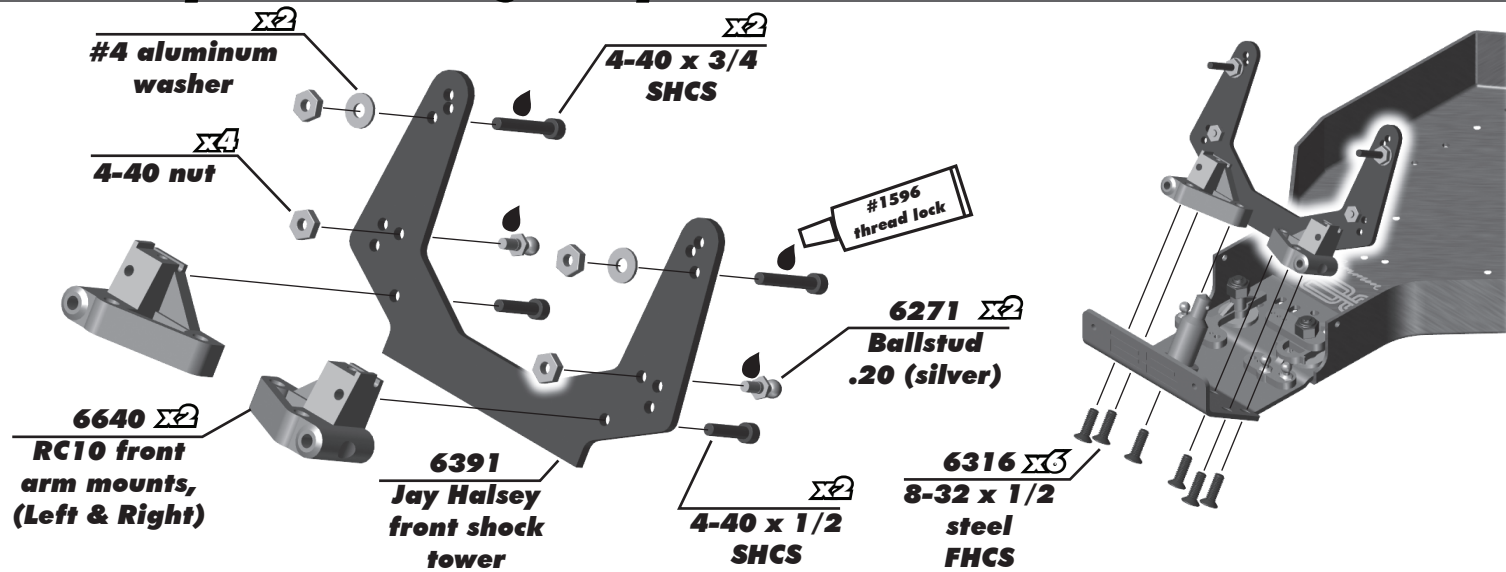
:: Front Suspension Build - Bag B - Step 1



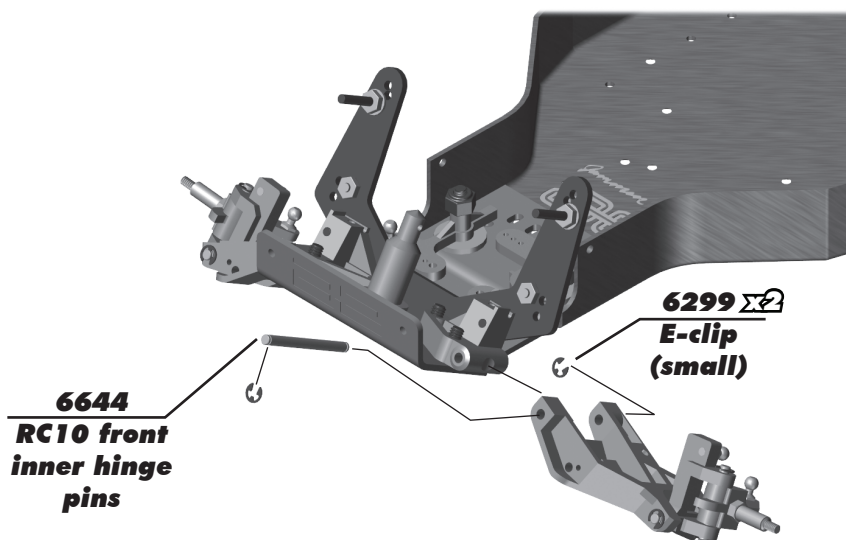
:: Front Suspension Build - Bag B - Step 2



:: Front Suspension Build - Bag B - Step 3



:: Front Suspension Build - Bag B - Step 4



Build left and right sides!

:: Transmission Build - Bag C - Step 1

Drive gear
pivot pin



Remove any burrs
if necessary with
hobby knife!

Drive gear
pivot



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

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

Bowed
e-clip



Curved side of
bowed E-Clip
should point
outwards!

Racer's Tip:

Use a small amount of
CA glue on idle pivot hole.

Washer
5mm x 0.17mm

:: Transmission Build - Bag C - Step 3

Oilite bushing
3/16x5/16x1/4

RC10 axle
drive gear



A little in-out
play is normal on
the outdrives

#1596
thread lock

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

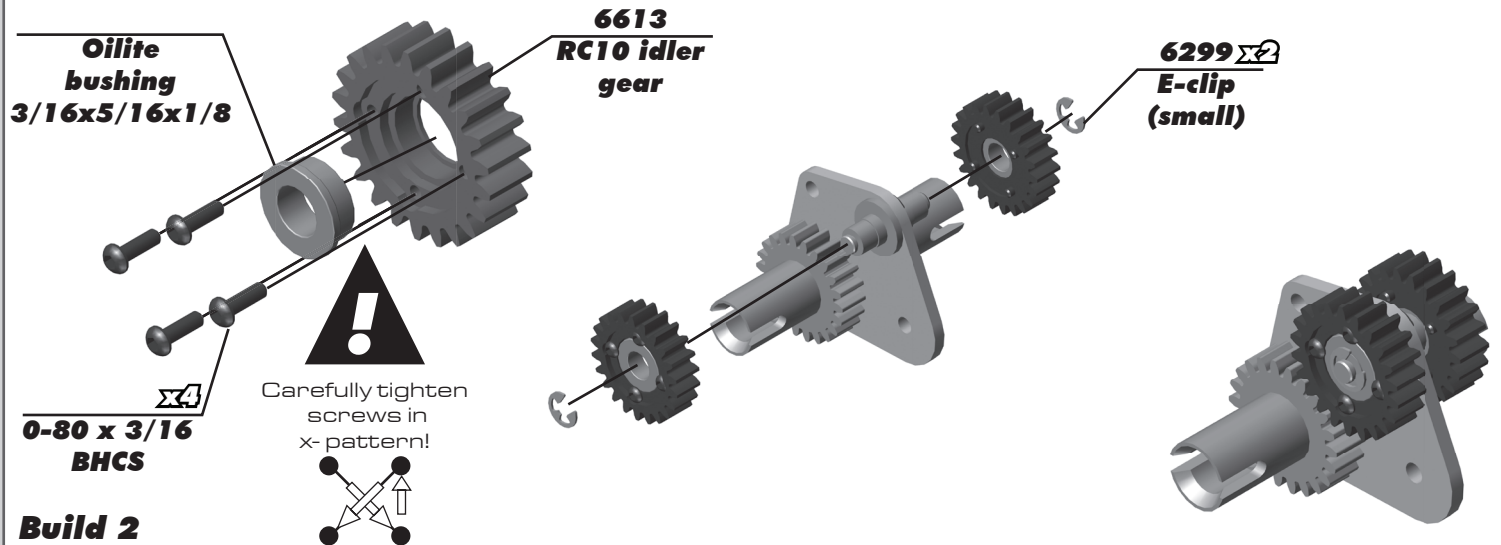
RC10 internal
retaining clip

#1596
thread lock

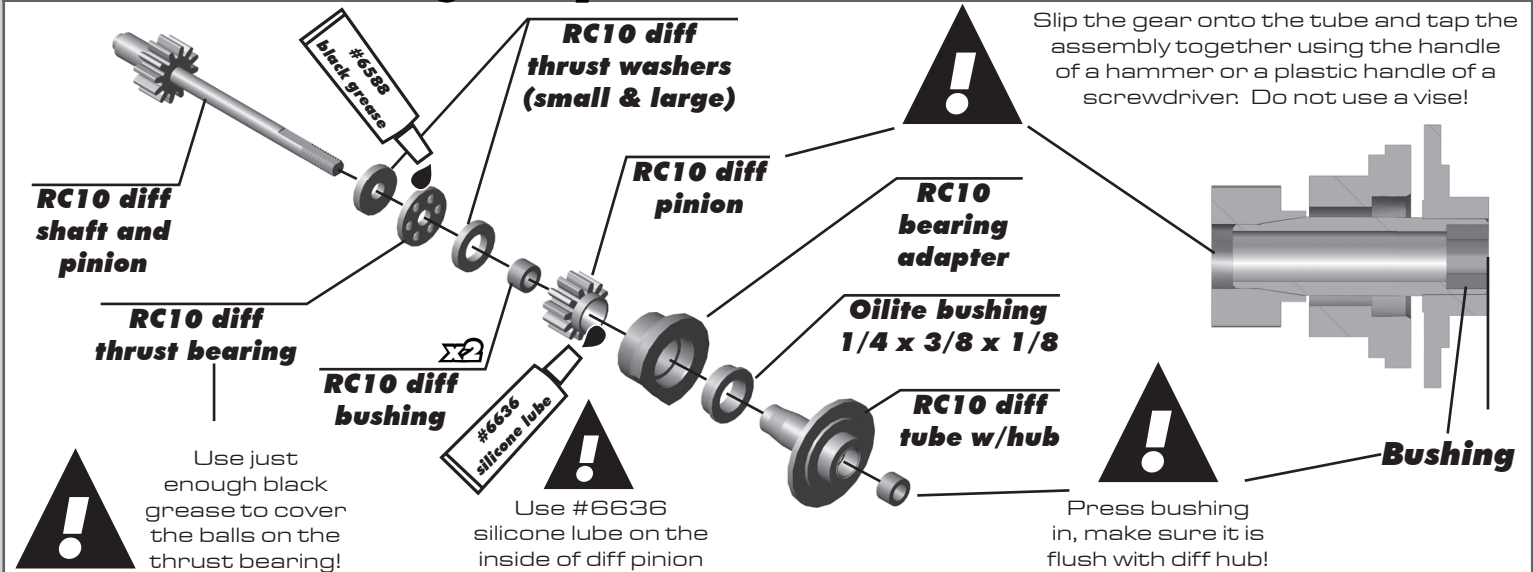
4-40 x 3/16
BHCS

Build 2

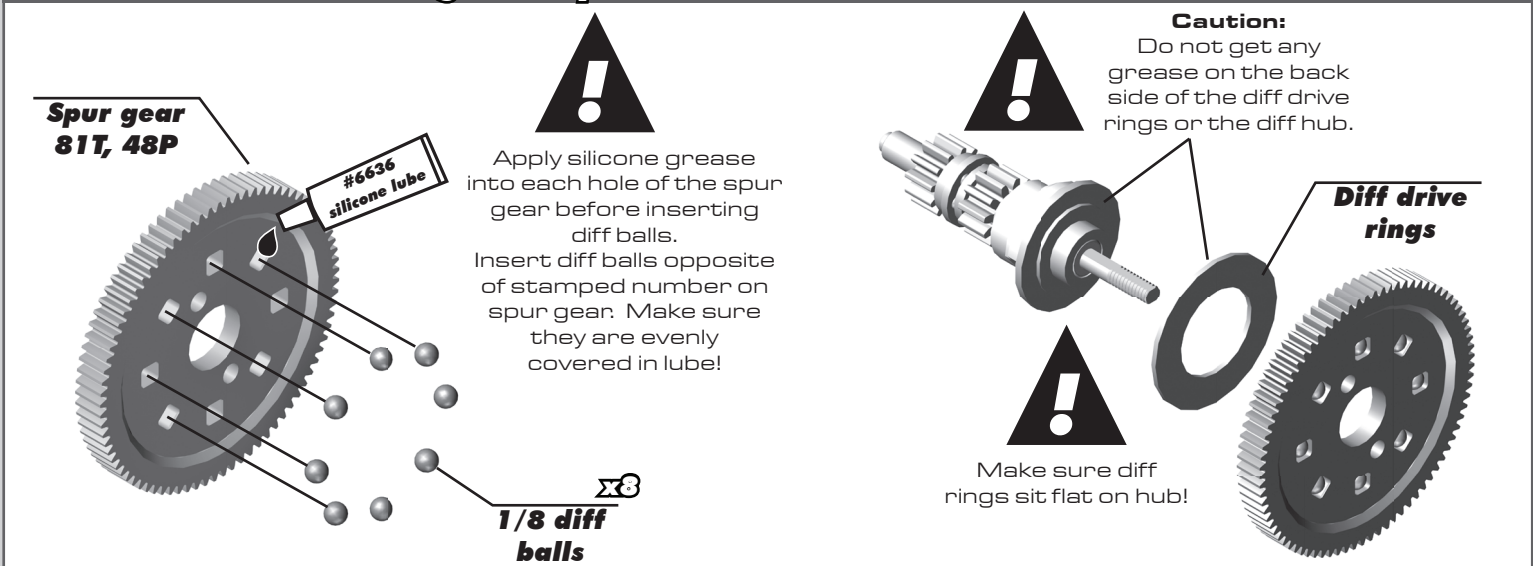
:: Transmission Build - Bag C - Step 4



:: Transmission Build - Bag C - Step 5

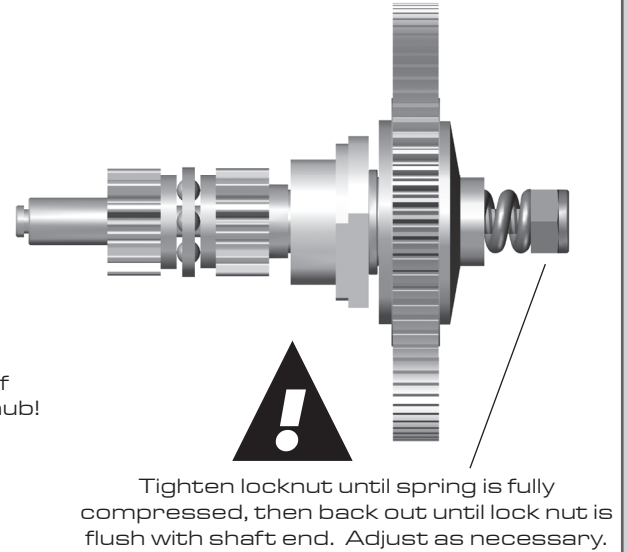
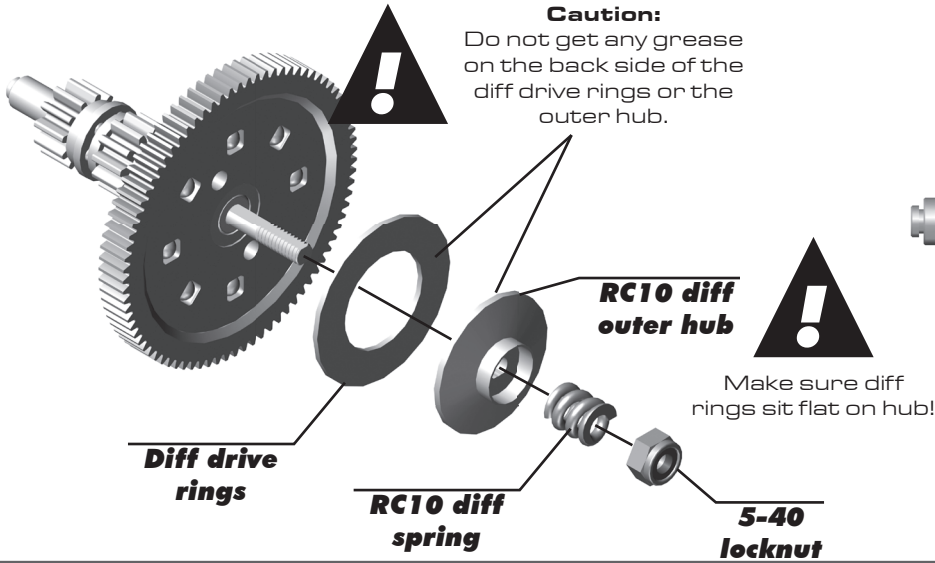


:: Transmission Build - Bag C - Step 6

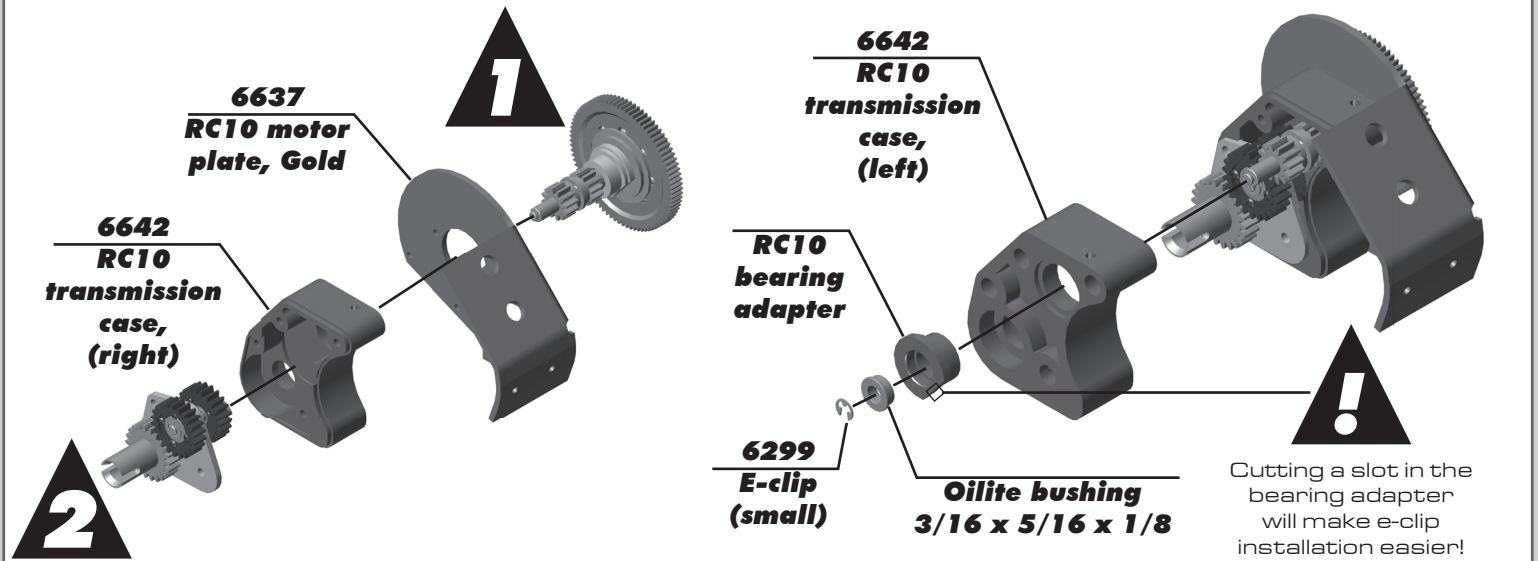


:: Transmission Build - Bag C - Step 7

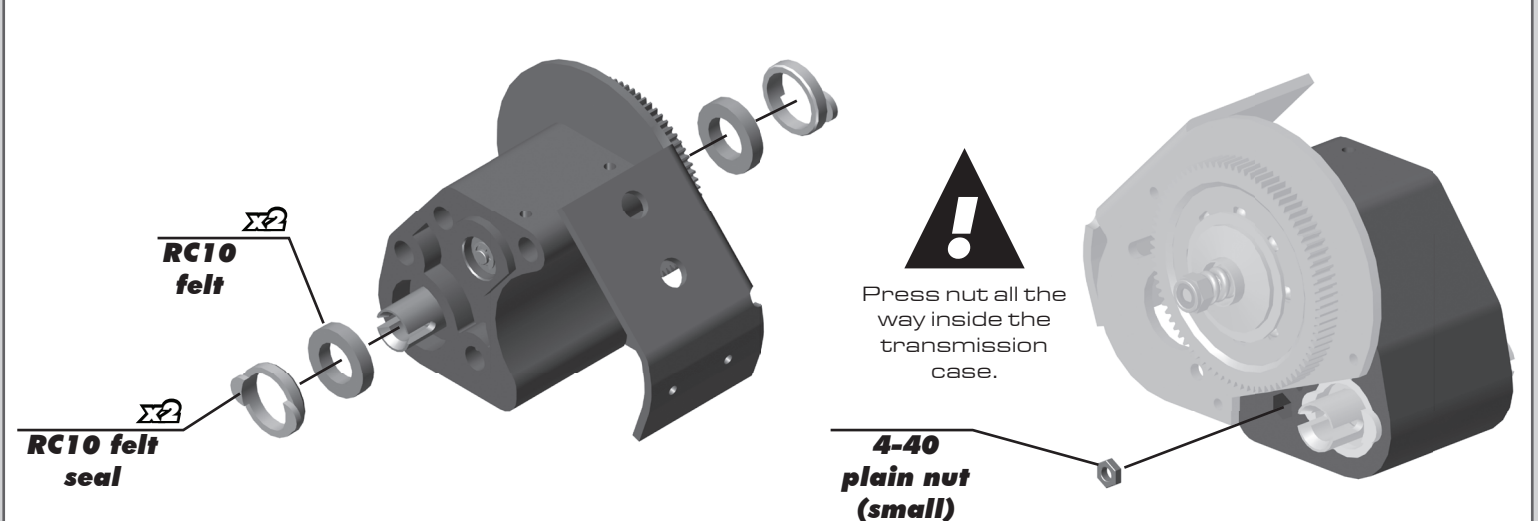
Caution:
Do not get any grease
on the back side of the
diff drive rings or the
outer hub.

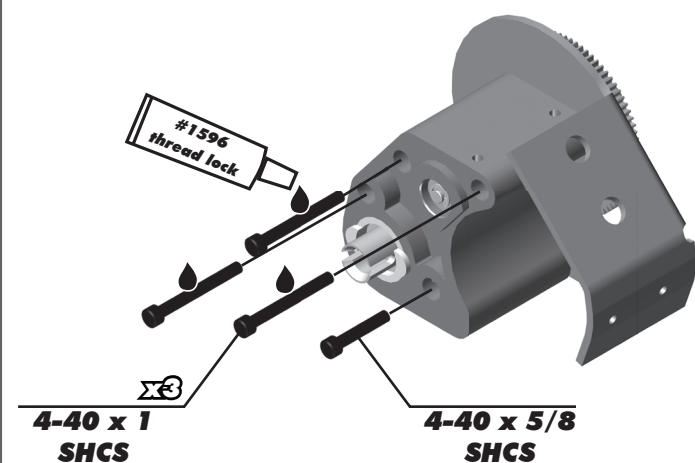
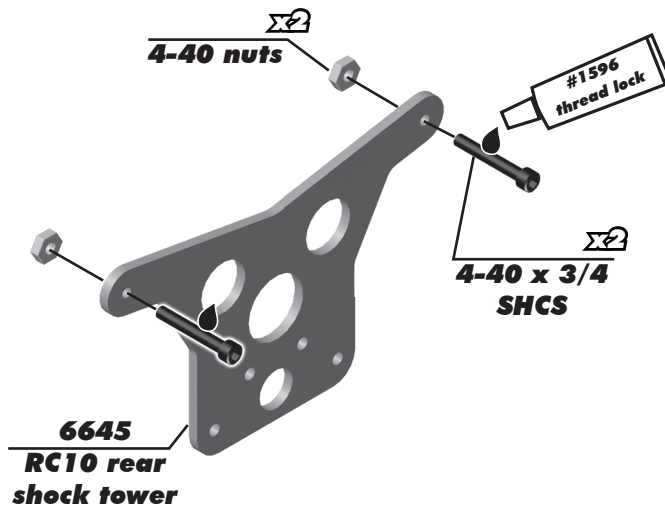
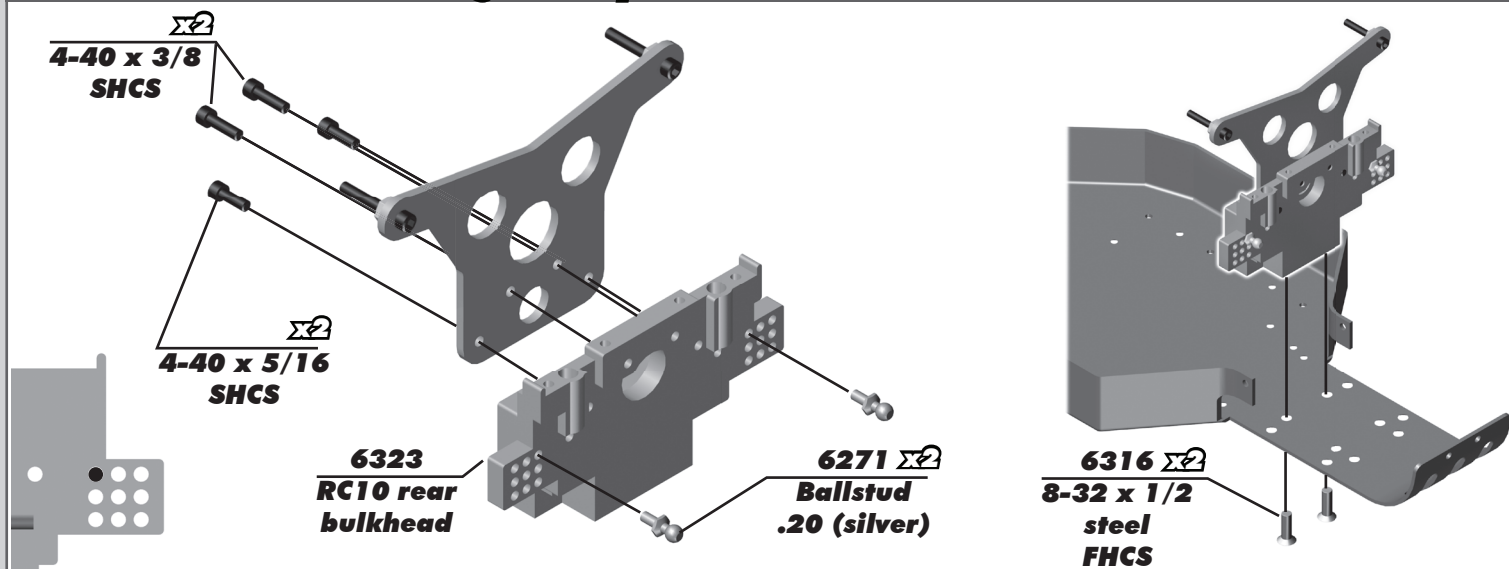
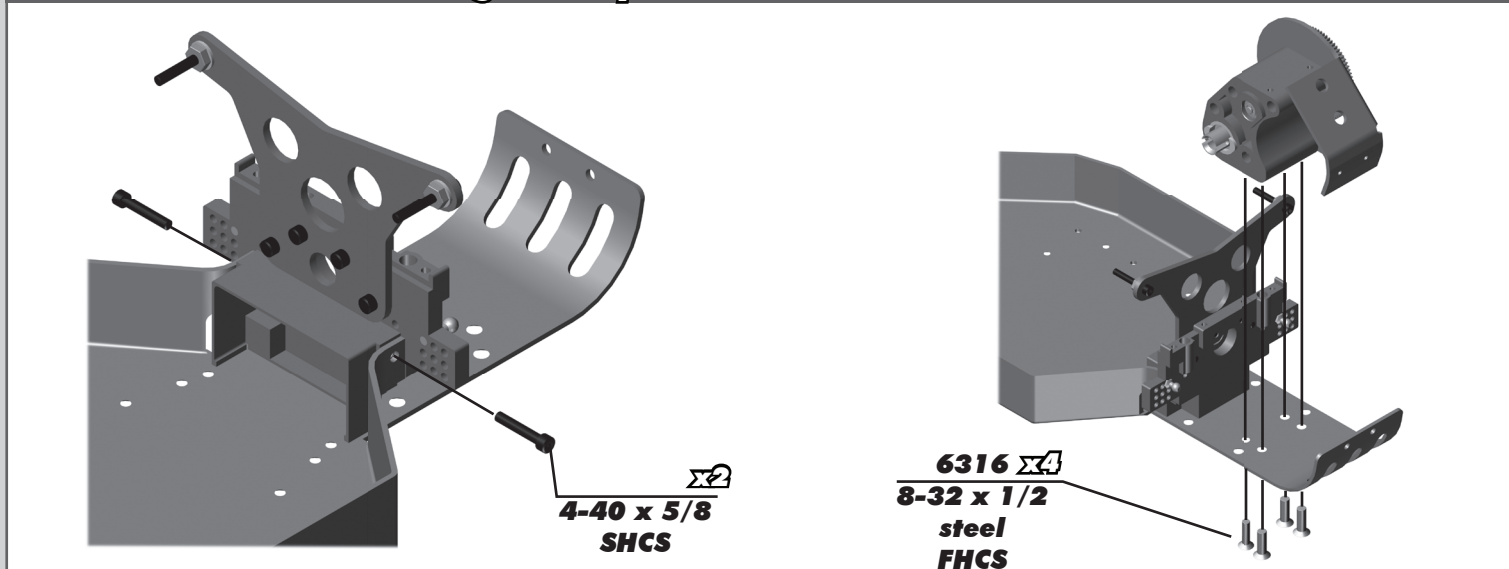


:: Transmission Build - Bag C - Step 8

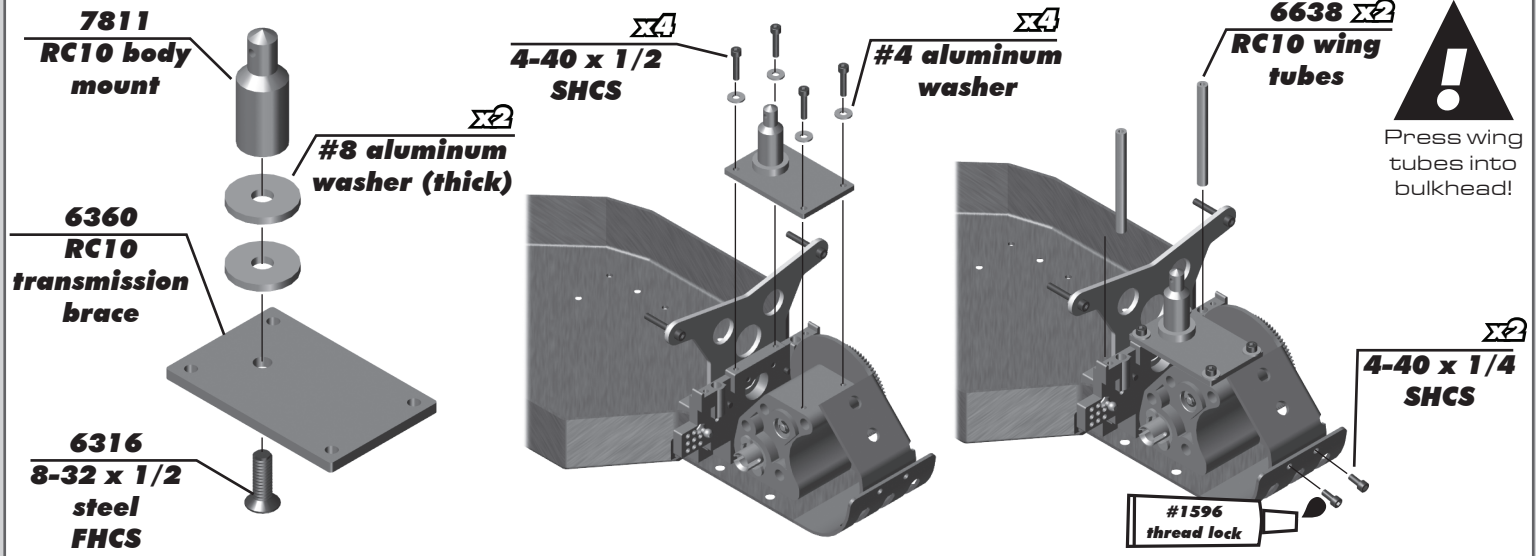


:: Transmission Build - Bag C - Step 9

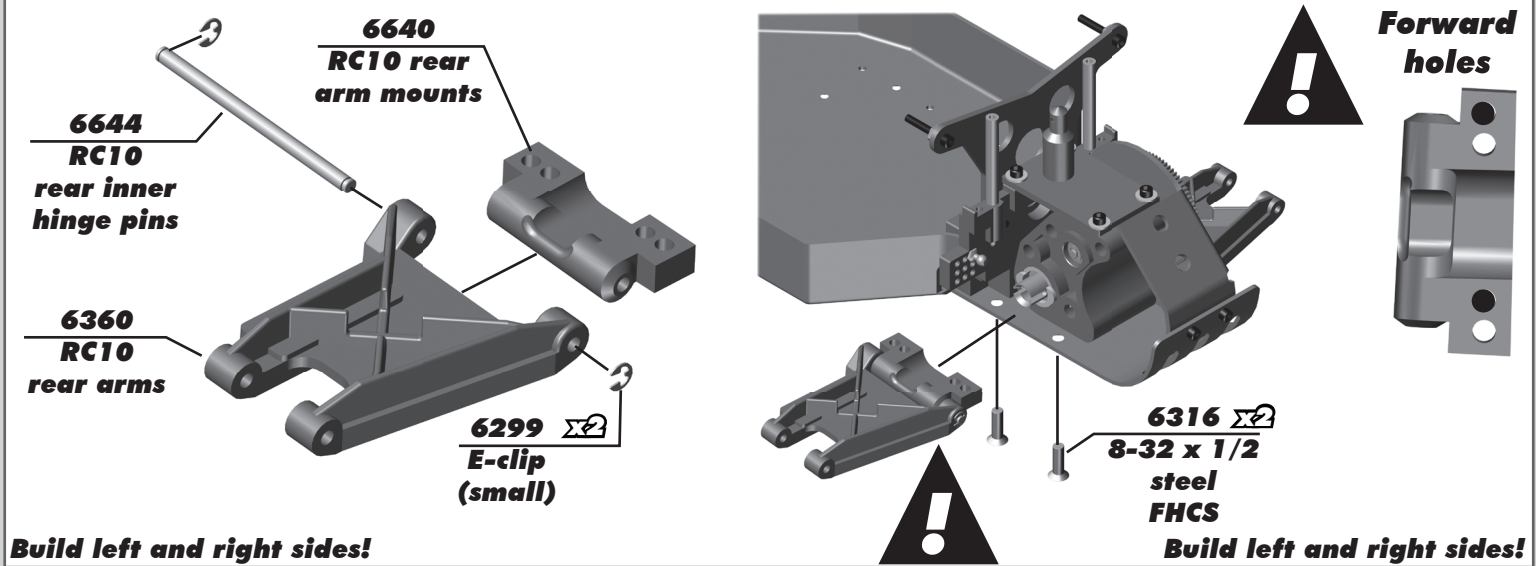


:: Transmission Build - Bag C - Step 10**:: Rear Bulkhead Build - Bag D - Step 1****:: Rear Bulkhead Build - Bag D - Step 2****:: Rear Bulkhead Build - Bag D - Step 3**

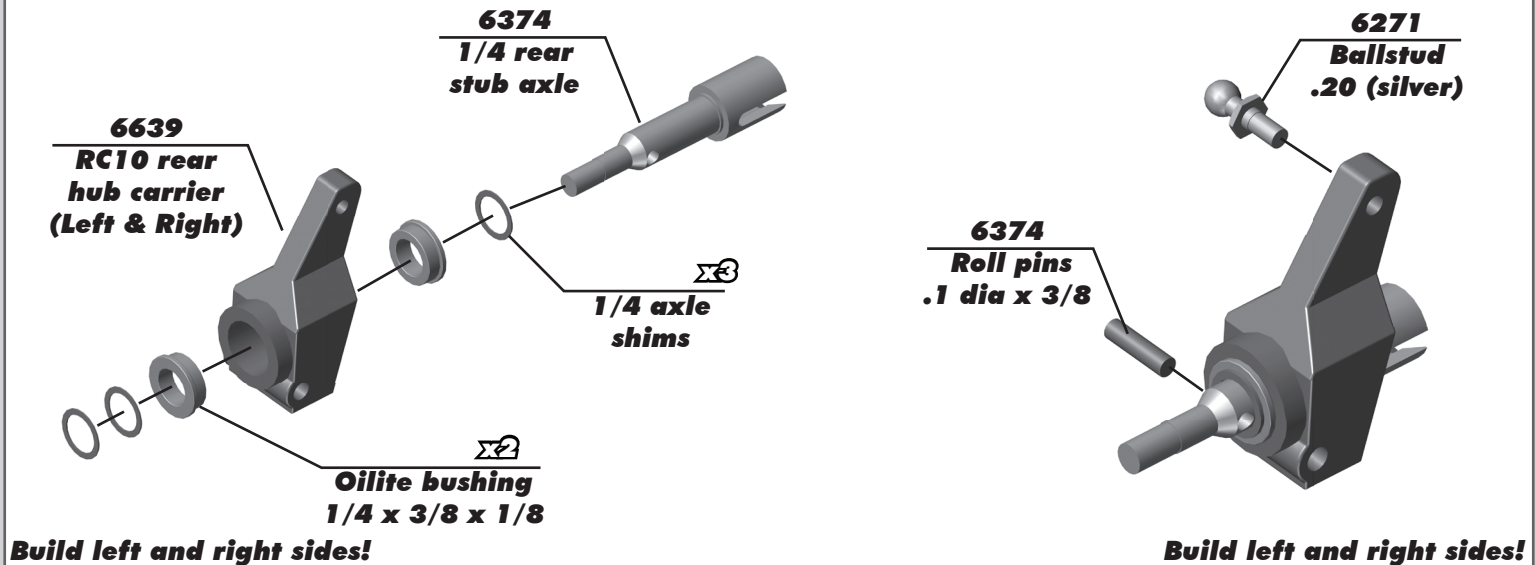
:: Rear Bulkhead Build - Bag D - Step 4



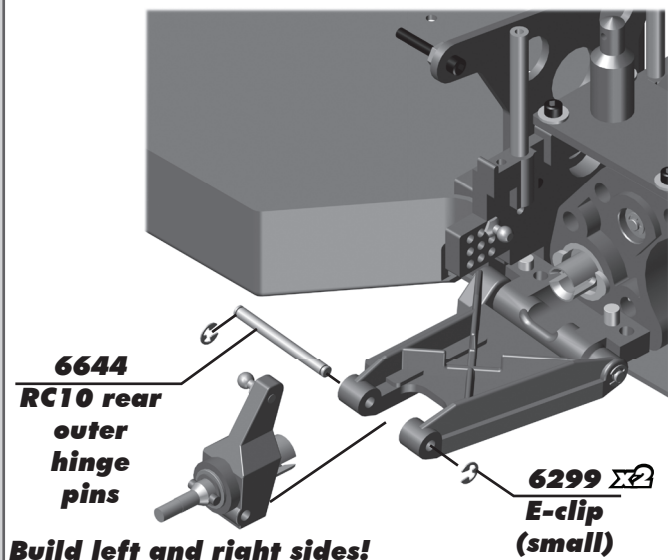
:: Rear Suspension Build - Bag E - Step 1



:: Rear Suspension Build - Bag E - Step 2

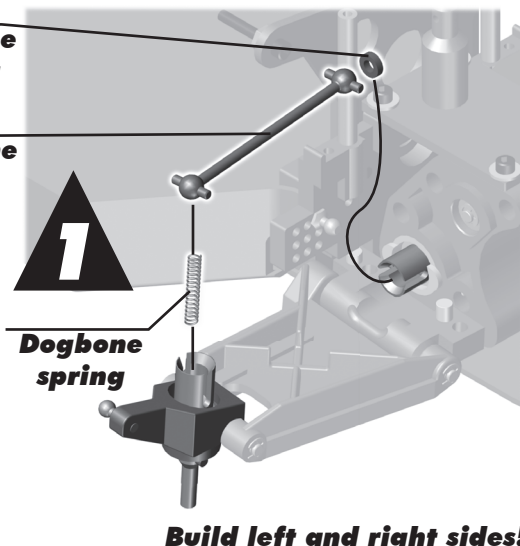


:: Rear Suspension Build - Bag E - Step 3



2

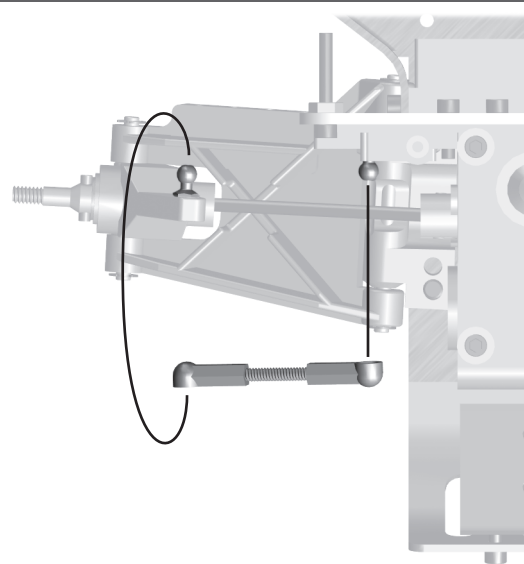
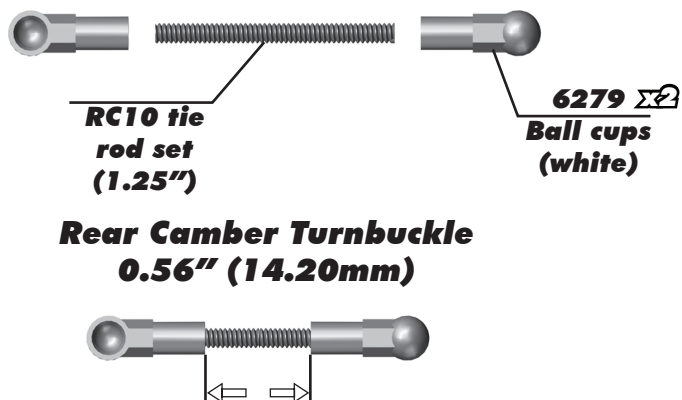
Dogbone
spacer
6370
Dogbone



:: Turnbuckles Build - Bag F - Step 1



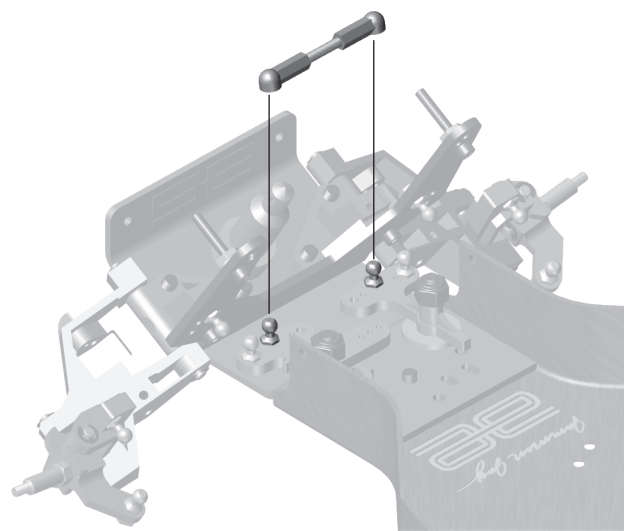
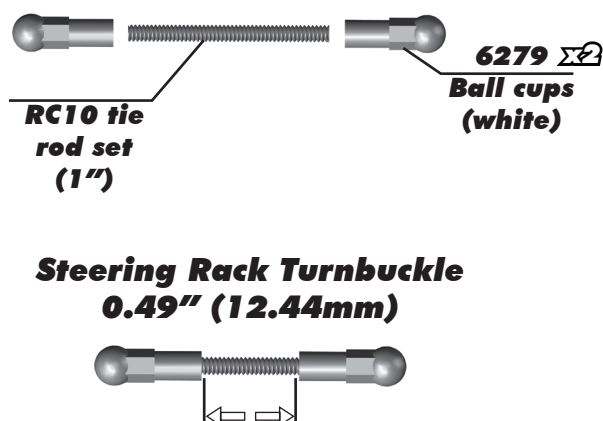
Use a pair of pliers or wire cutters to carefully hold the turnbuckle while threading on ball cups.



:: Turnbuckles Build - Bag F - Step 2



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



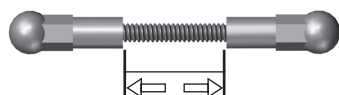
:: Turnbuckles Build - Bag F - Step 3



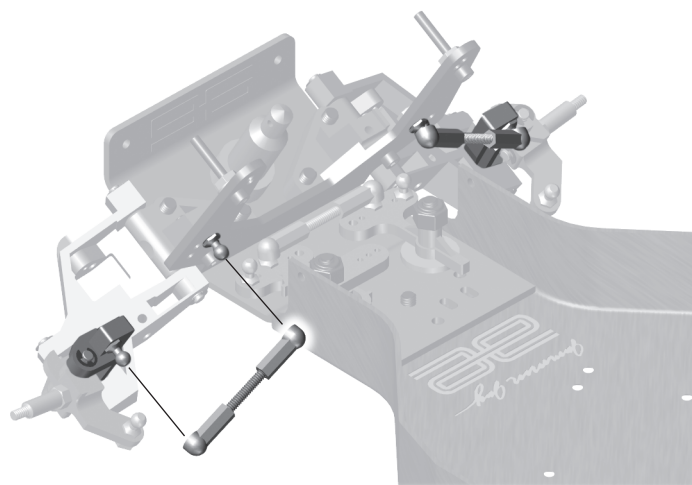
Use a pair of pliers or wire cutters to carefully hold the turnbuckle while threading on ball cups.



Front Camber Turnbuckle
0.53" (13.5mm)



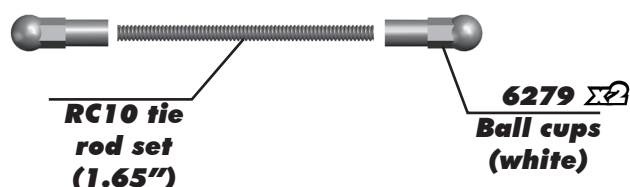
Build left and right sides!



:: Turnbuckles Build - Bag F - Step 4



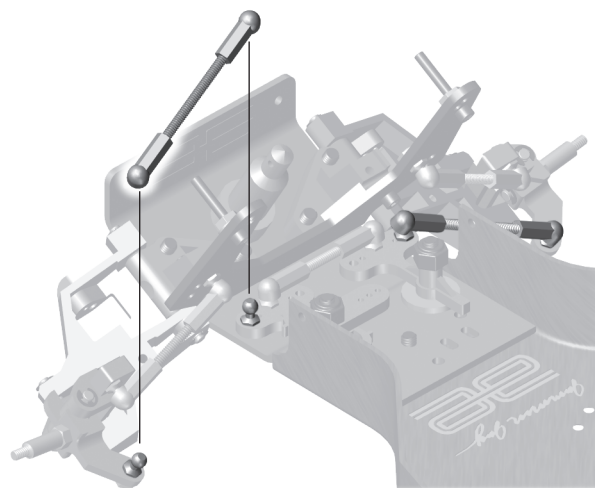
Use a pair of pliers or wire cutters to carefully hold the turnbuckle while threading on ball cups.



Steering Turnbuckle
1.09" (27.70mm)



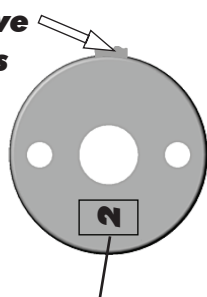
Build left and right sides!



:: Shocks Build - Bag G - Step 1

Remove spurs

Piston



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

6299
E-clip
(small)

6462
Shock shaft,
front (0.56)

6420
Shock shaft,
rear (1.32)

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

6299
E-clip
(small)

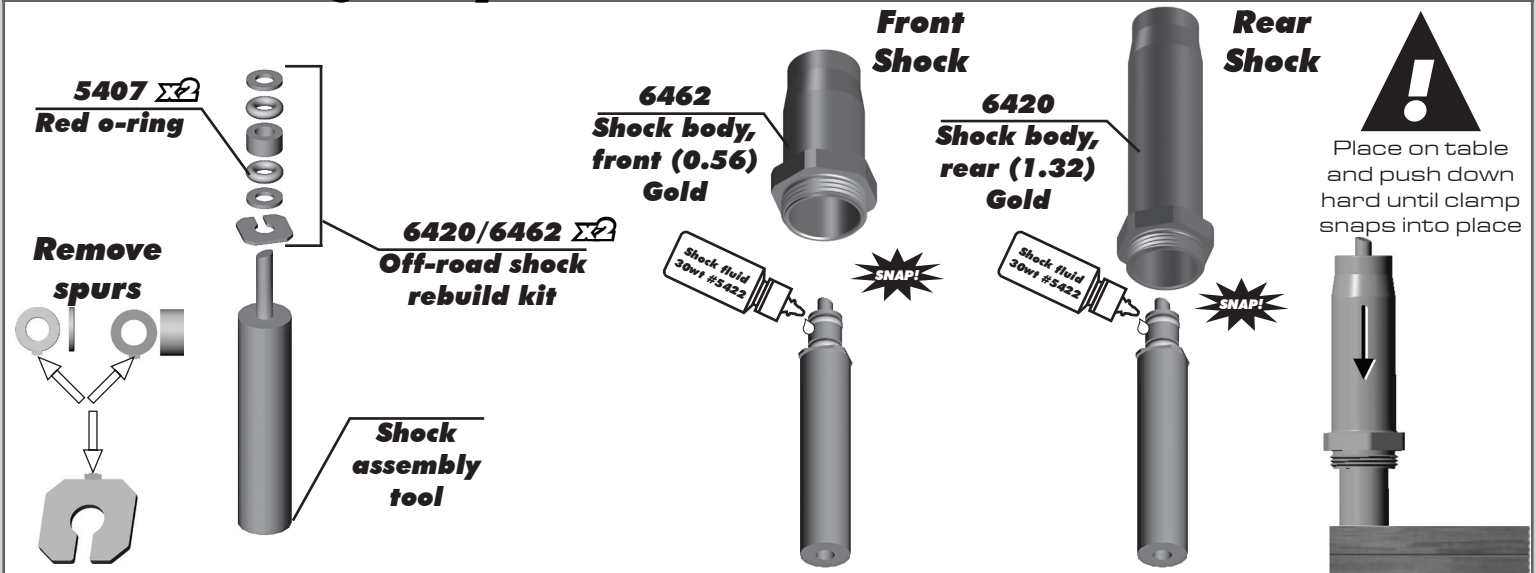


TIP: Use marker to mark the piston numbers for easy identification!

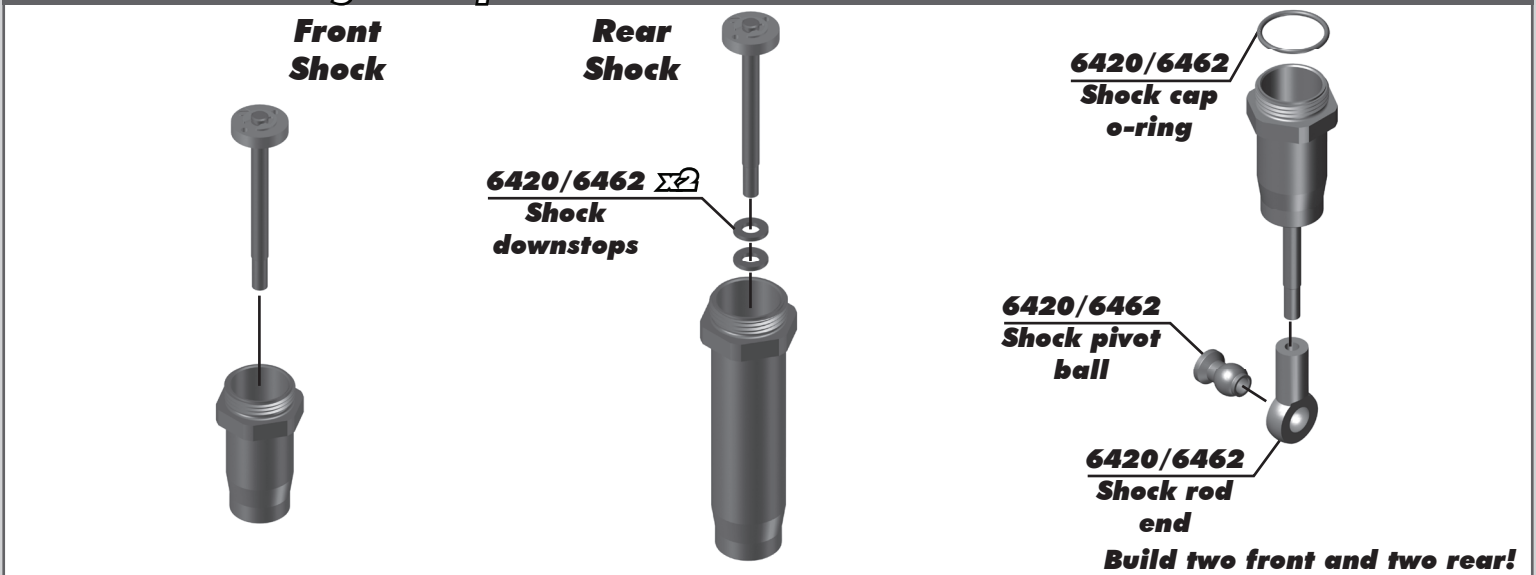


Build two front and two rear!

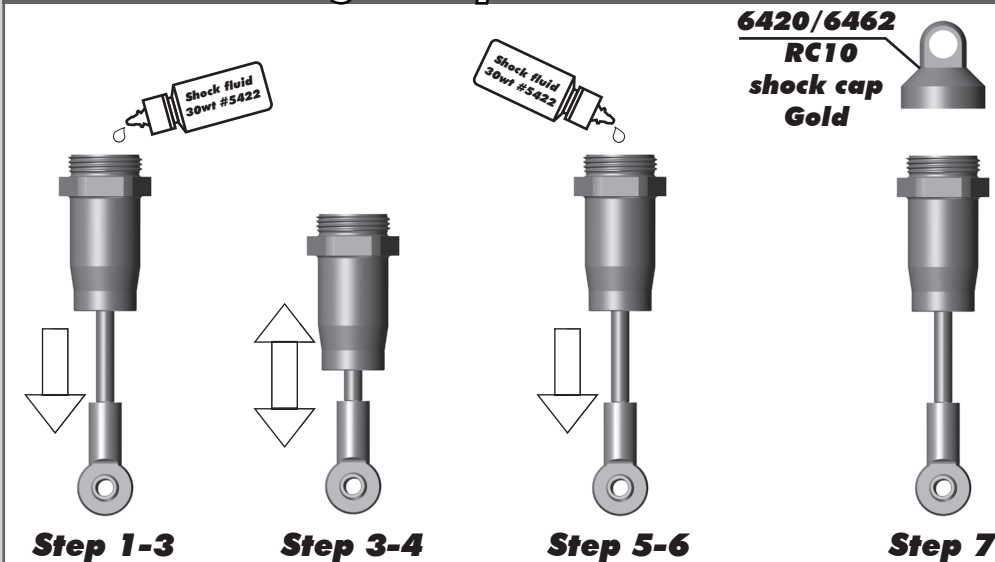
:: Shocks Build - Bag G - Step 2



:: Shocks Build - Bag G - Step 3



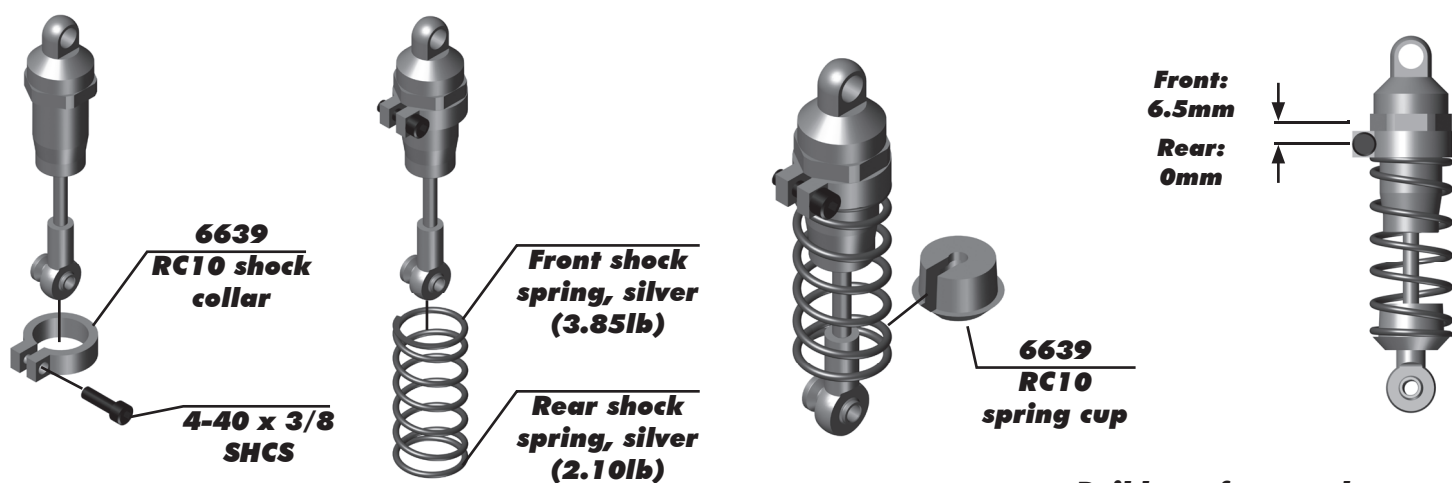
:: Shocks Build - Bag G - Step 4



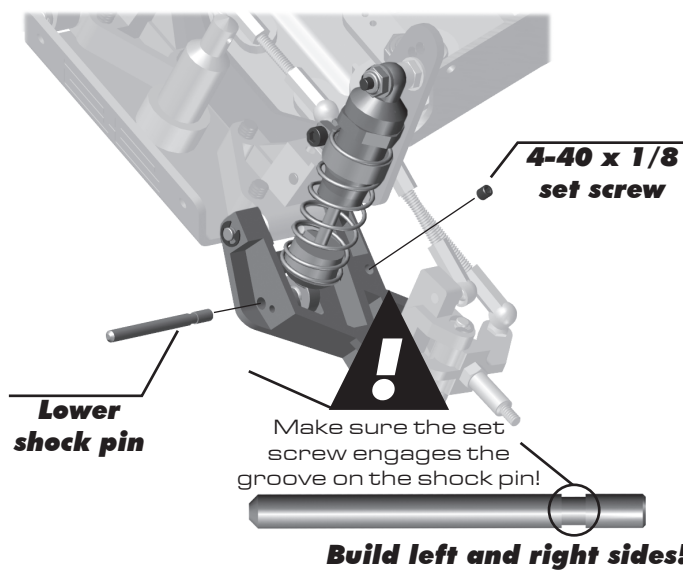
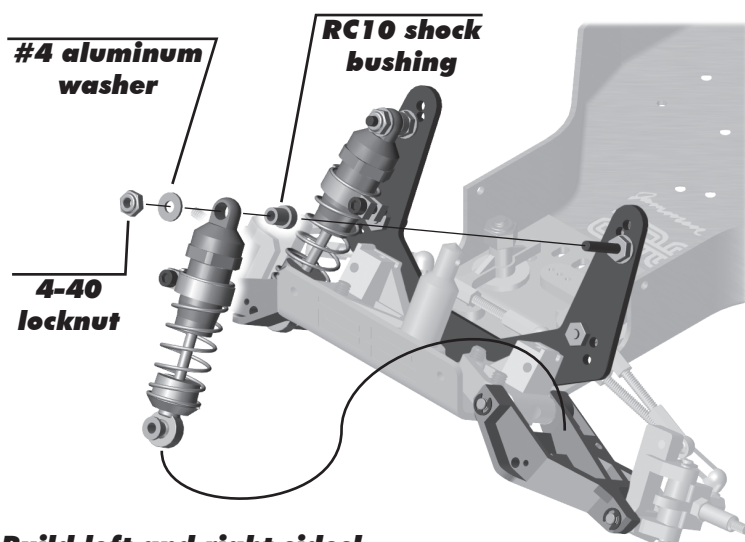
* Shock Bleeding Steps:

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.

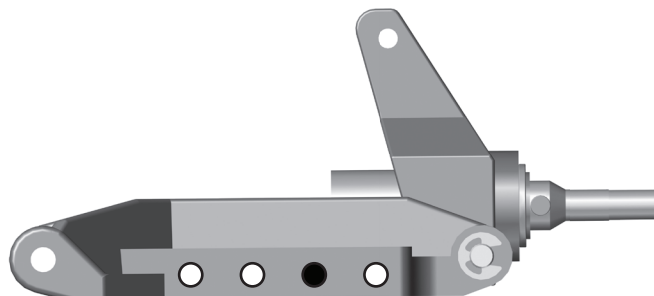
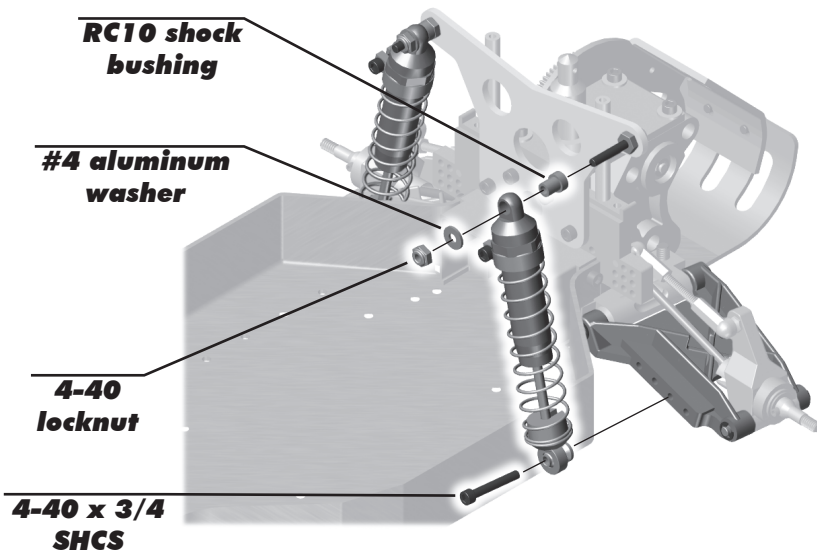
:: Shocks Build - Bag G - Step 5



:: Shocks Build - Bag G - Step 6

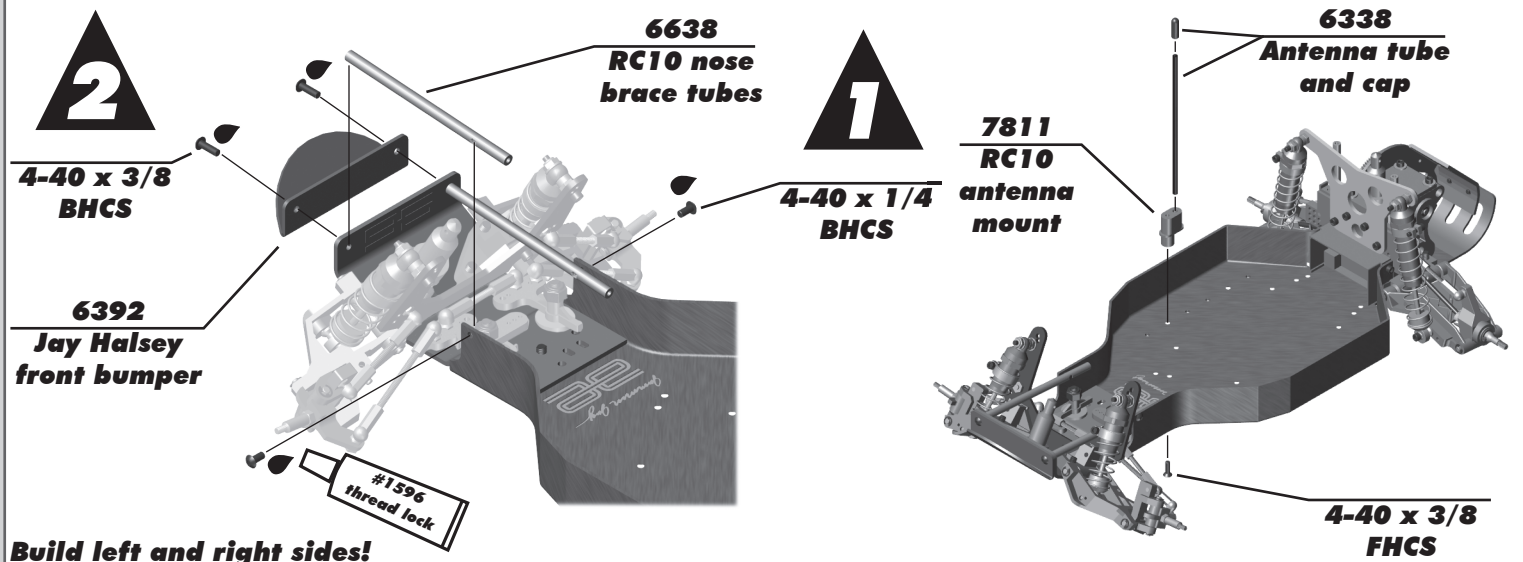


:: Shocks Build - Bag G - Step 7

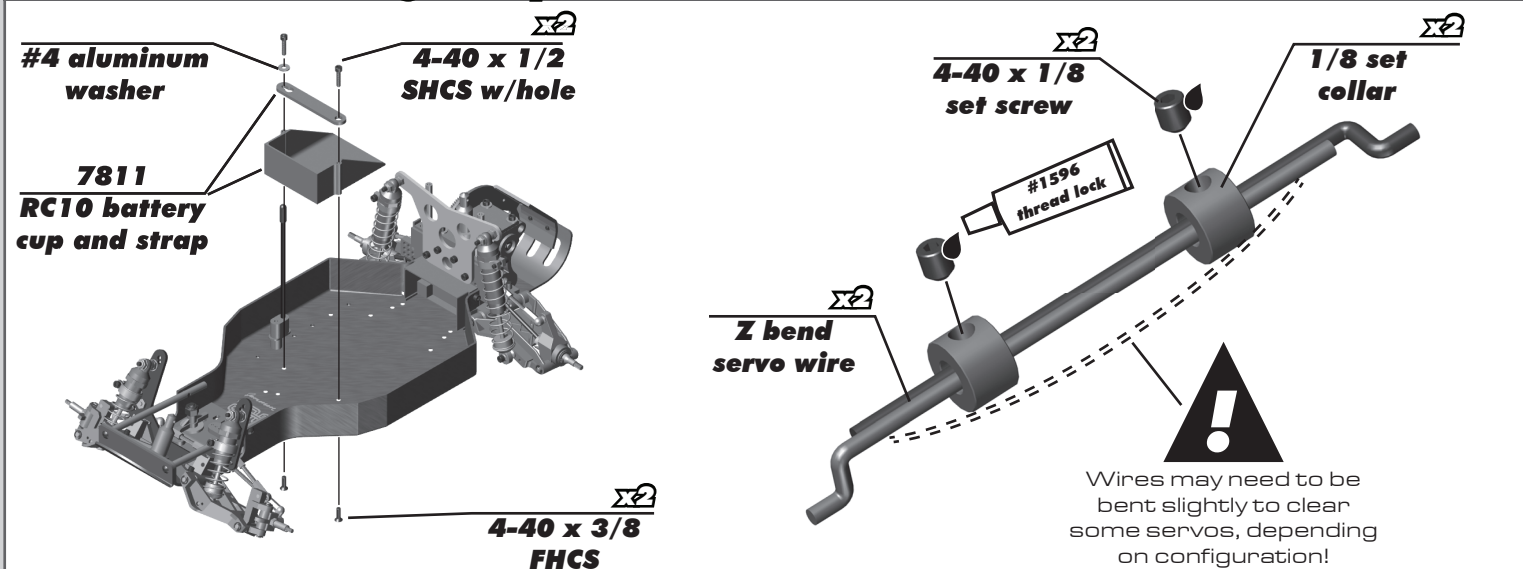


Build left and right sides!

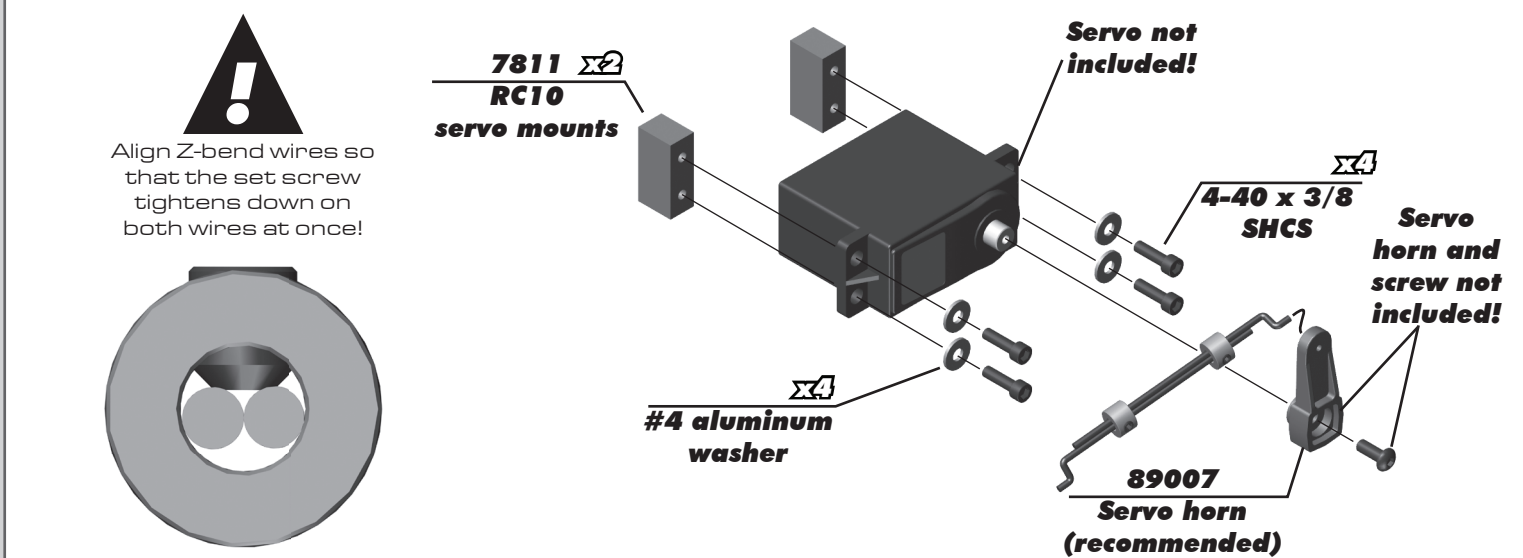
:: Chassis Build - Bag H - Step 1



:: Electronics Build - Bag I - Step 1



:: Electronics Build - Bag I - Step 2

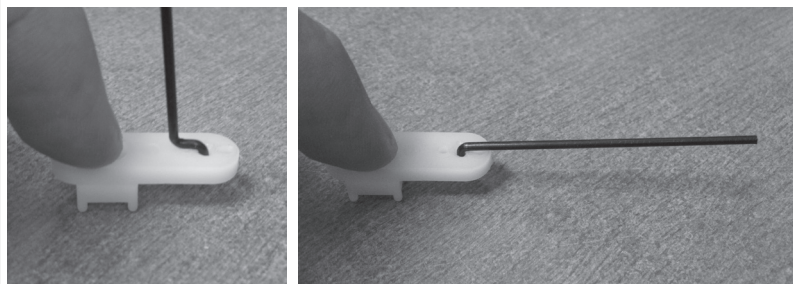


:: Electronics Build - Bag 1 - Step 3



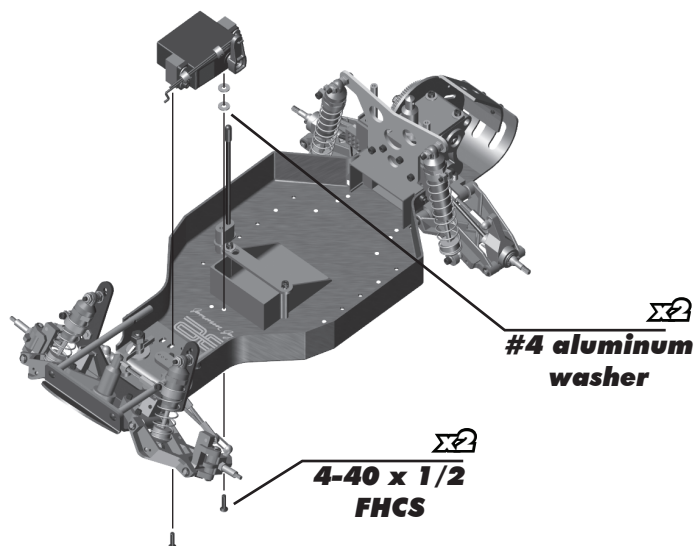
Follow steps below to properly install Z bend wire into servo horn and steering link.

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

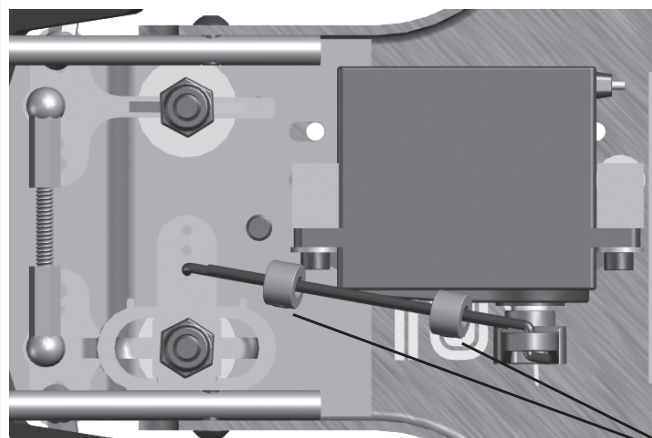


- 1) Press down on the Z bend wire....
- 2) Rotate the wire so the Z bend wire is fully installed into steering link as shown.

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



:: Electronics Build - Bag 1 - Step 4

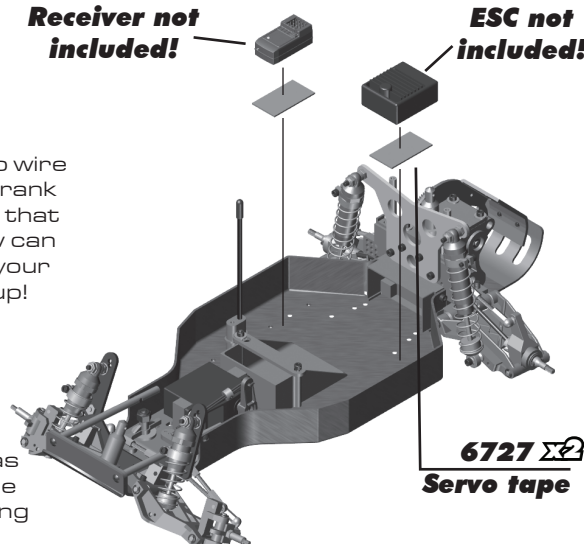


Install Z bend servo wire into steering bellcrank as shown. Ensure that full steering throw can be achieved with your servo horn setup!

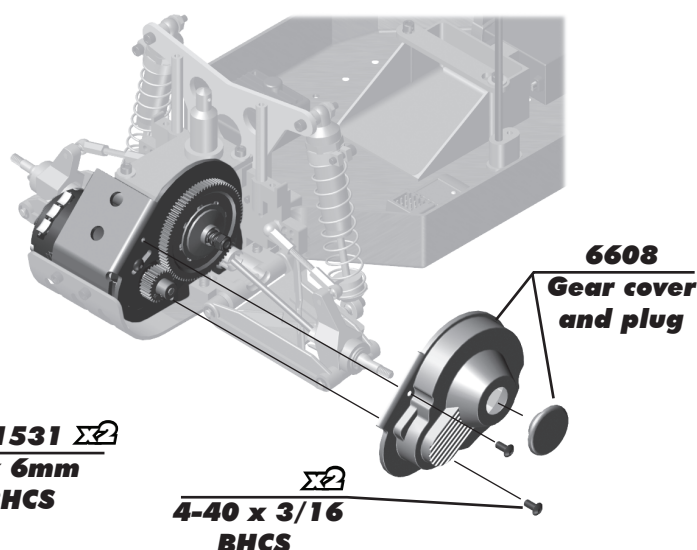
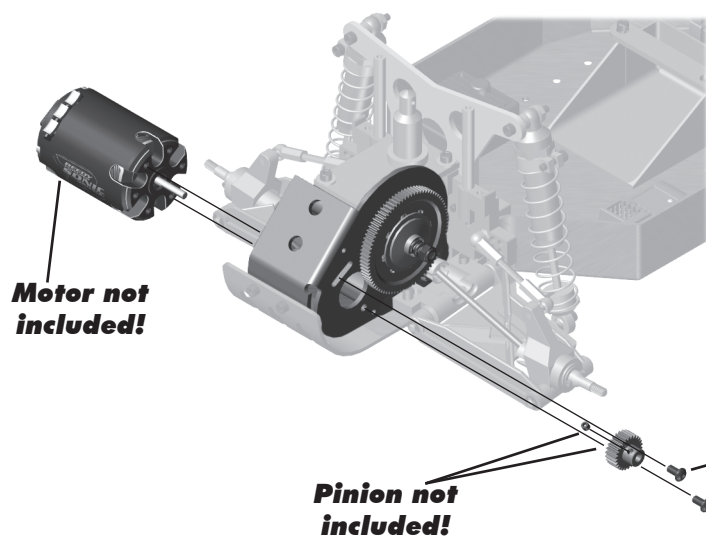
Space collars as wide as possible while still clamping both wires.

Receiver not included!

ESC not included!

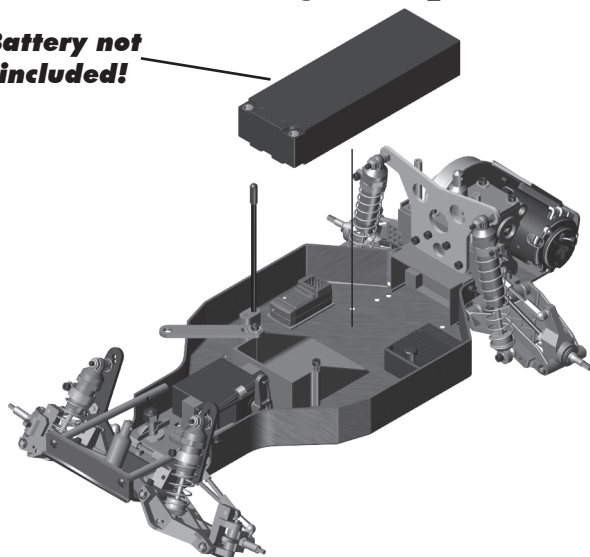


:: Electronics Build - Bag 1 - Step 5

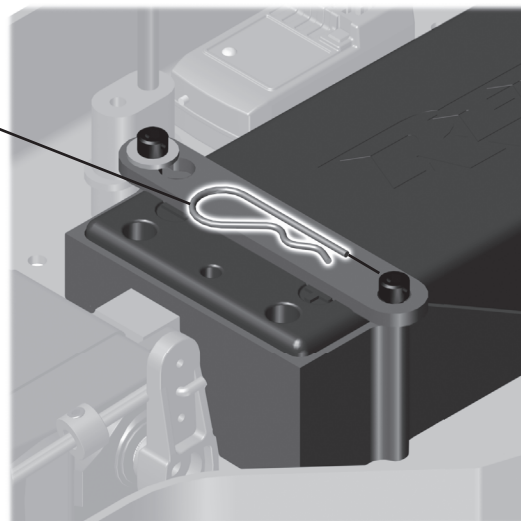


:: Electronics Build - Bag I - Step 6

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

6394
Jay Halsey front wheels, black

6394
Jay Halsey front wheels, black

6393
RC10 front knobby tire

Do not overtighten wheel screws!

x5
4-40 x 5/16 SHCS

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

Use optional wheel insert for aftermarket vintage tires!

6314
RC10 rear tire

6643
RC10 rear wheels, white

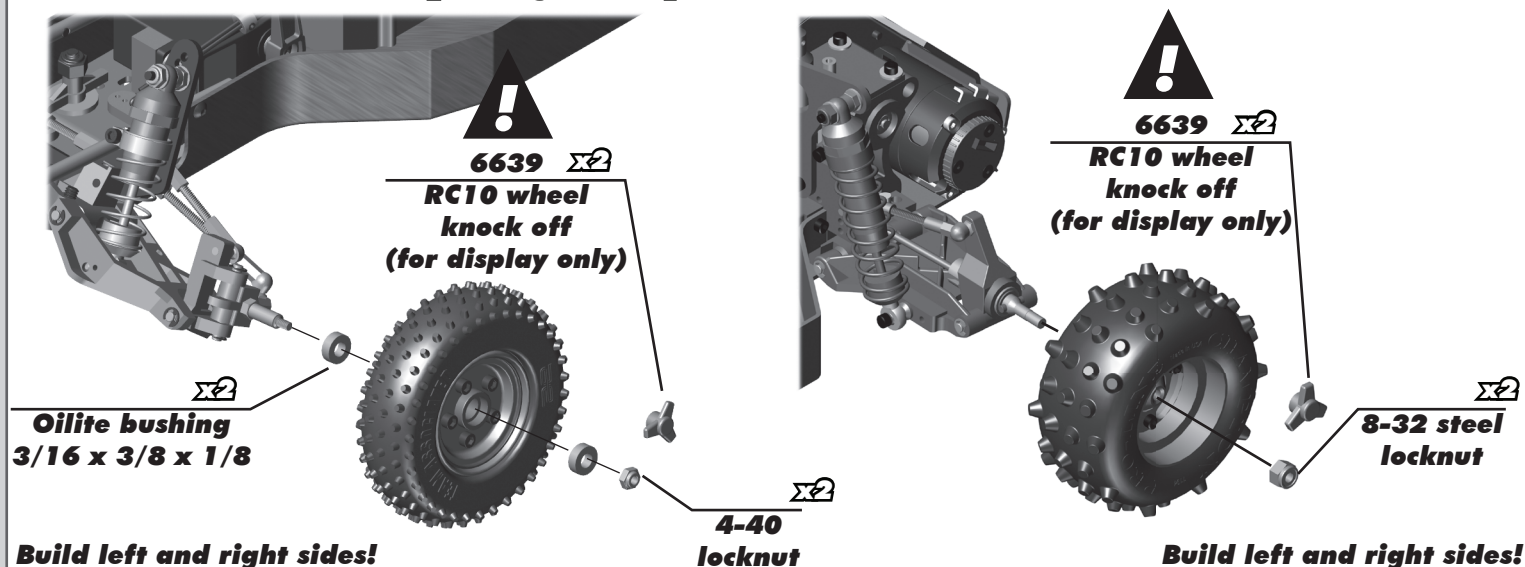
6643
RC10 rear wheels, white

Do not overtighten wheel screws!

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 RC 10 Kit comes with a clear polycarbonate body and wing. You will need to prep the body and wing before you can paint them. Wash the inside thoroughly with warm water and liquid detergent. Dry the body and wing using a clean, soft, lint-free cloth. Use high quality masking tape to make masks for the windows and install them on the inside of the body (RC cars get painted from the inside).

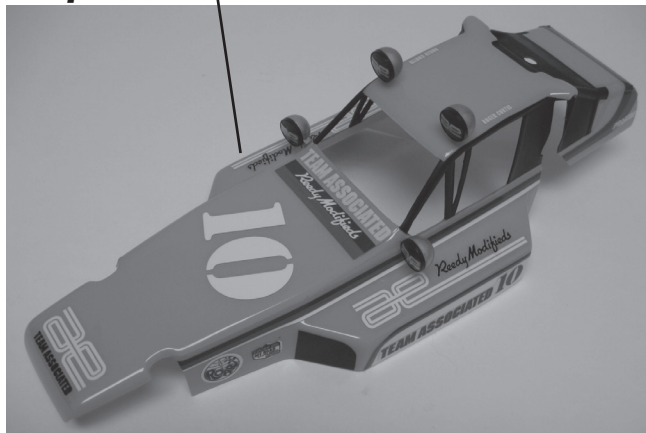
Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (either rattle can or airbrush R/C specific paint) the paint to the inside of the body (preferably dark colors first, lighter colors last).

NOTE: use ONLY paint that is recommended for use with (polycarbonate) plastics. If you do not, you can destroy the plastic body and wing!!!!).

It is recommended to wear a mask while painting.

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

6159 RC10 Protech Buggy body, unpainted



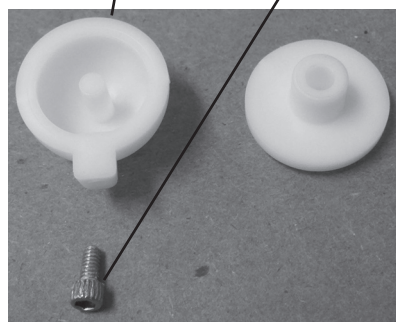
:: Wheels / Tires and Body - Bag J - Step 5

Light Buckets:

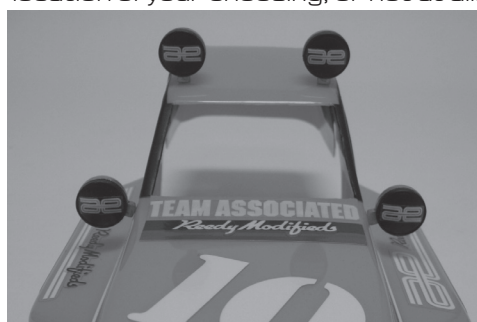
Press the light bucket halves together.
Install light buckets with 2-56 x 3/16 SHCS in areas shown.

6639 Light buckets

$\times 4$ 2-56 x 3/16 SHCS



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



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

Painting Tips:

Driver :
Your RC10 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!!!!.

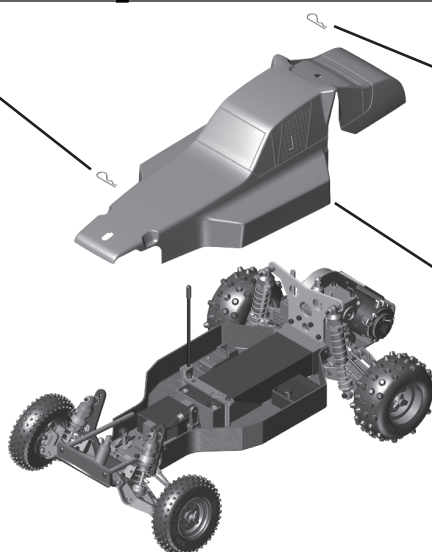
RC10 driver figure, clear



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

**6332
Body
clip**

**6332
Body
clip**



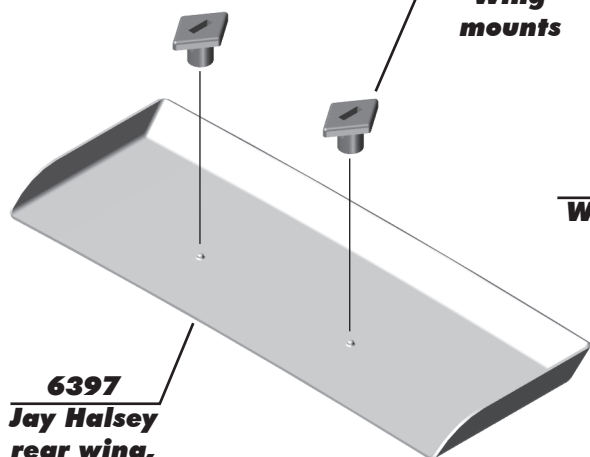
**6159
RC10
ProTech
Body**

**6398
Jay Halsey
WC decal
sheet**

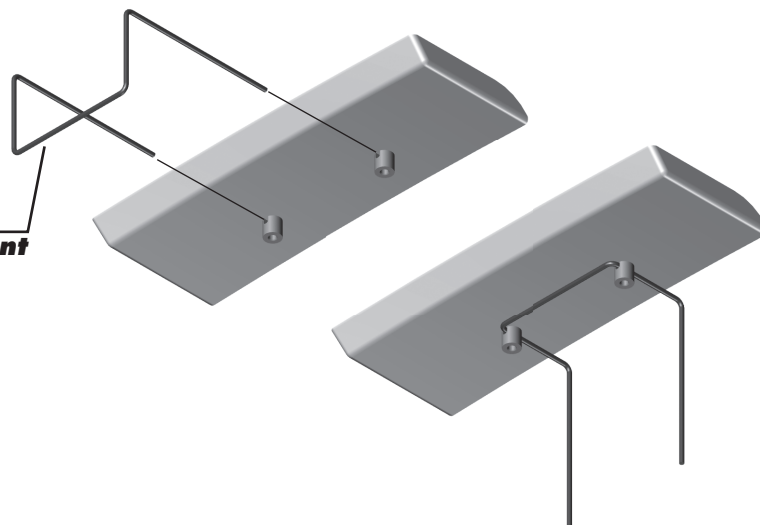
:: Wheels / Tires and Body - Bag J - Step 7

**6639 $\Sigma 2$
Wing
mounts**

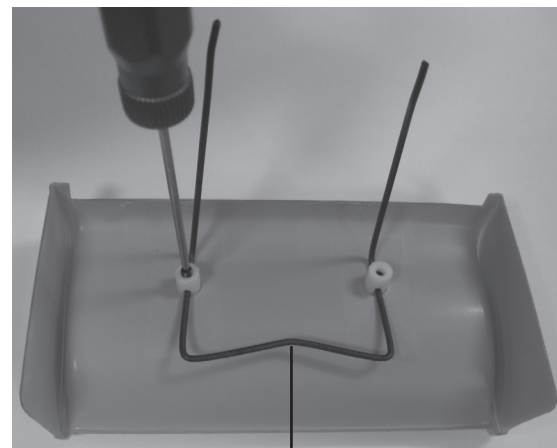
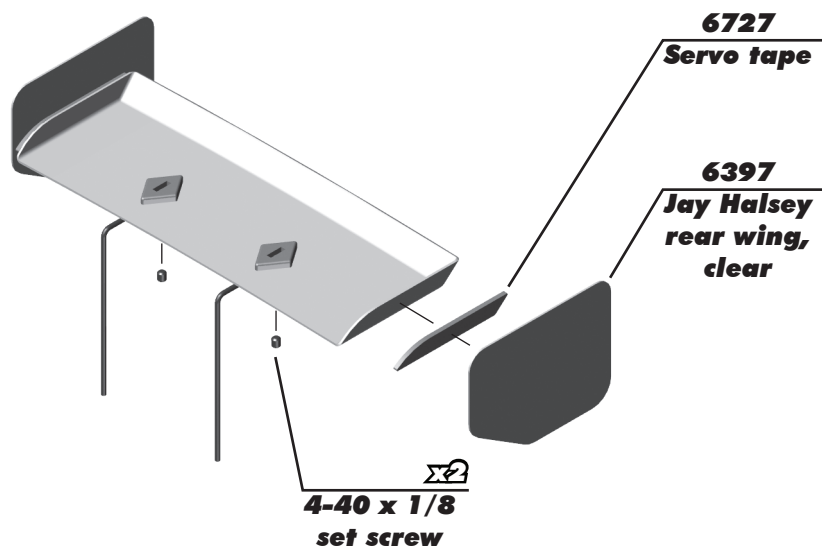
**Wing mount
wire**



**6397
Jay Halsey
rear wing,
clear**

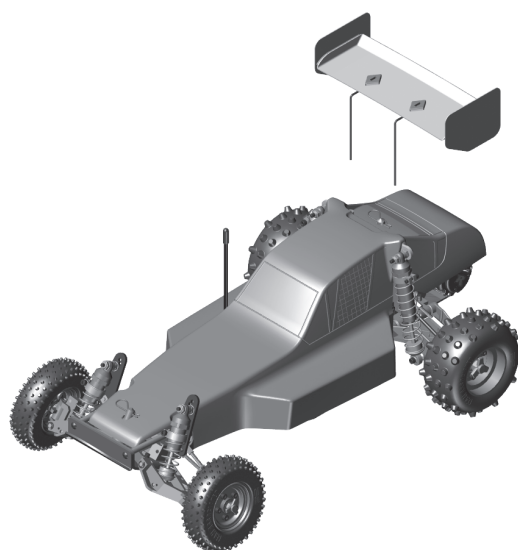


:: Wheels / Tires and Body - Bag J - Step 8



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

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



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

:: Notes

:: Jay Halsey RC10 World Champion Decal Installation Instructions