1:10 SCALE ELECTRIC COMPETITION OFF-ROAD CAR KIT

INSTRUCTION MANUAL

RC10

1989 IFMAR

MASAMI HIROSAKA

EDITION

14 IFMAR WORLD CHAMPIONSHIP TITLES

Masami Hirosaka
1989 IFMAR Off Road 2WD World Champion

WORLD CHAMPIONS.

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 89 Masami Stealth Kit:

- CNC machined aluminum chassis
- Laser etched chassis logo
- Carbon fiber top plate
- Hard anodized shock bodies
- Hard anodized shock caps
- Universal driveshafts
- Ball bearings
- 89' Stealth car front bulkhead
- 89' Stealth car rear arm mounts
- Stealth car wide front suspension arms
- CNC chassis standoffs
- Stealth transmission
- Titanium turnbuckles
- 89' Stealth car world championship replica tires
- 89' Stealth car rear suspension arms
- Adjustable battery mounts (shorty or standard)
- 89' Stealth car front and rear shock towers
- 89' Stealth car pink rear wheels
- 89' Stealth car rear wheel adaptors
- 89' Stealth car style wing mount system
- 89' Stealth car rear bulkhead
- 89' Stealth car style rear wing with side panels
- 89' Masami world championship livery decal sheet
- Replica Masami battery strap and ESC mount
- 89' Stealth car long stroke shock springs

Factory team option parts:

- Carbon fiber 89' Stealth car chassis
- CNC machined front bulkhead
- CNC machined rear arm mounts

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

Tools included:

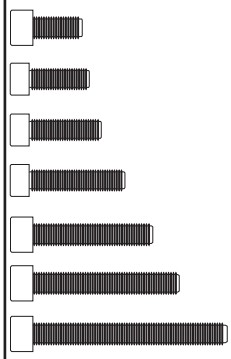
- Allen wrenches (.035", .050", 1/16", 3/32")
- Shock building tool

:: 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

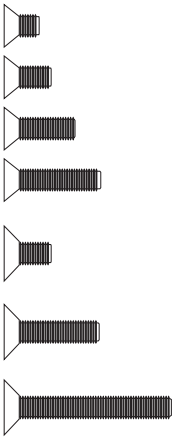
:: Hardware - 1:1 Scale View

Cap Head (shcs)



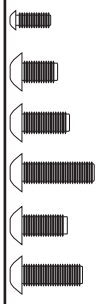
4-40x1/4"
4-40x5/16"
4-40x3/8"
4-40x1/2"
4-40x5/8" (6926)
4-40x3/4"
4-40x1"

Flat Head (fhcs)



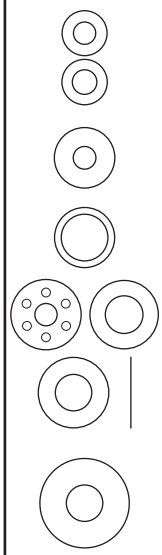
4-40x3/16"
4-40x1/4"
4-40x3/8"
4-40x1/2"
8-32x1/4" (6316)
8-32x1/2" (6316)
8-32x7/8" (6316)

Button Head (bhcs)



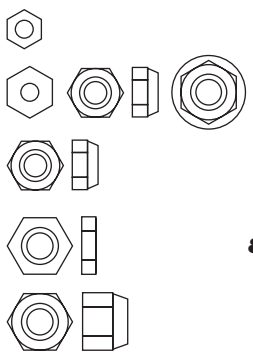
0-80x3/16"
4-40x3/16"
4-40x1/4"
4-40x3/8"
3x6mm (31531)
3x8mm (31532)

Shims and Washers



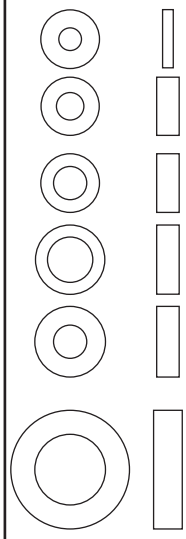
Dogbone spacer
.030 Nylon Spacer (4187)
#4 Washer
1/4" Axle Shim
Diff Thrust Washers
5mm x 9.5mm 0.17mm
#8 Aluminum Thick Washer

Nuts (lock/plain)



4-40 Small Pattern Plain Nut
4-40 Nuts
5-40 Locknut
8-32 Steel Nut, Thin
8-32 Steel Locknut

Bearings



1/8 x 5/16 x 1/16
5/32 x 5/16 x 1/8
1/4 x 3/8 x 1/8
3/16 x 3/8 x 1/8
3/16 x 5/16 x 1/8
3/8 x 5/8 x 5/32
1/4 x 3/8 x 1/8 Flanged
3/16 x 5/16 x 1/8 Flanged

Set Screws

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

Diff Balls

5/64 Thrust Balls
3/32 Diff Balls

Clips

E-clip 1/8" (6299)

Notes:

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For the most up to date version of this manual, please scan the QR code below.

SCAN ME

#6043 RC10 Masami Digital Manual

:: 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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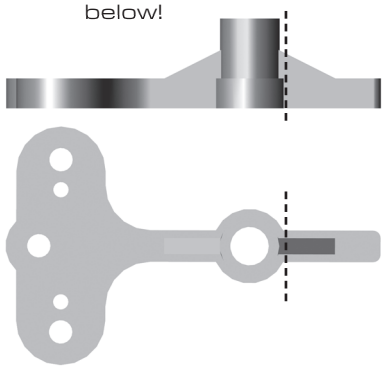
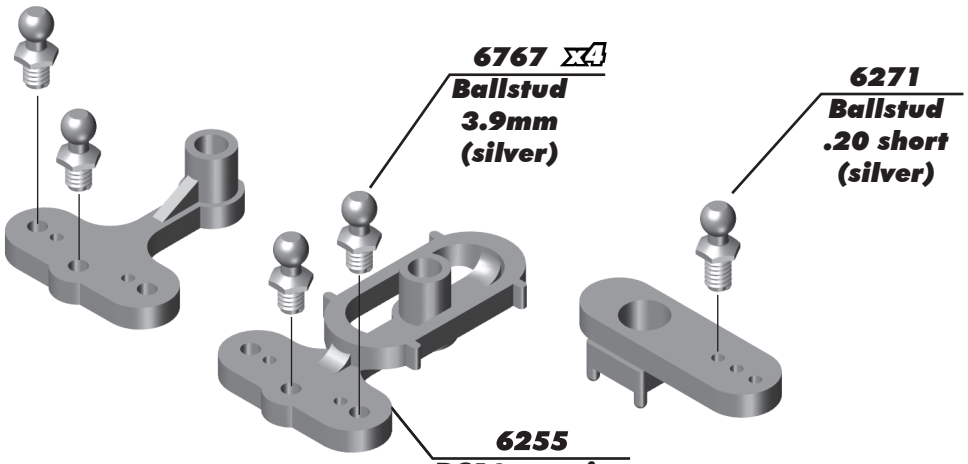
:: Servo Saver Build - Bag A - Step 1

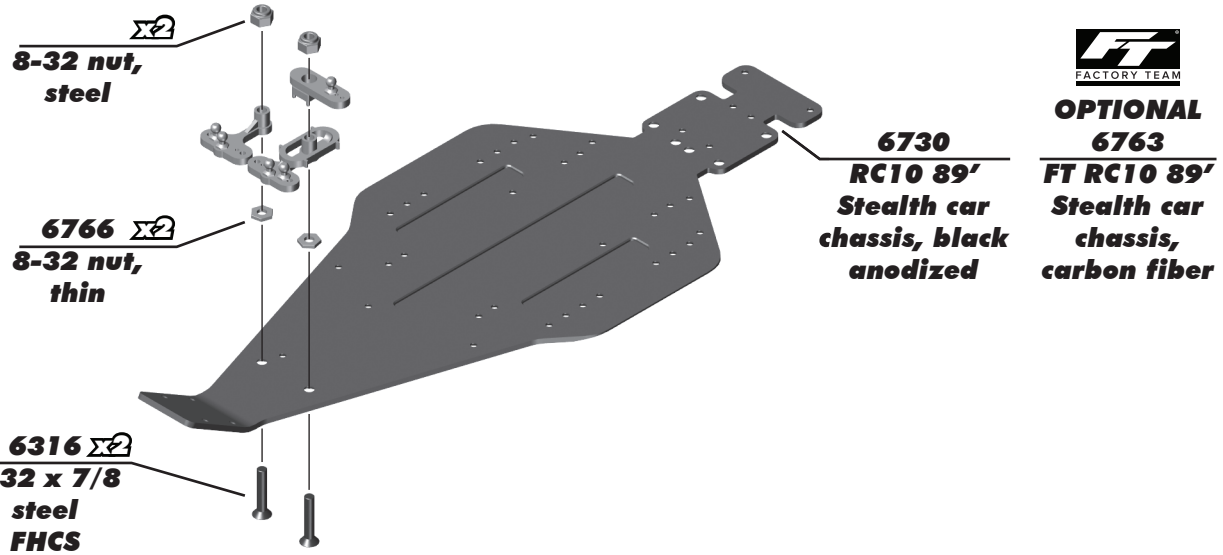
Trim the right side bulkhead as shown below!



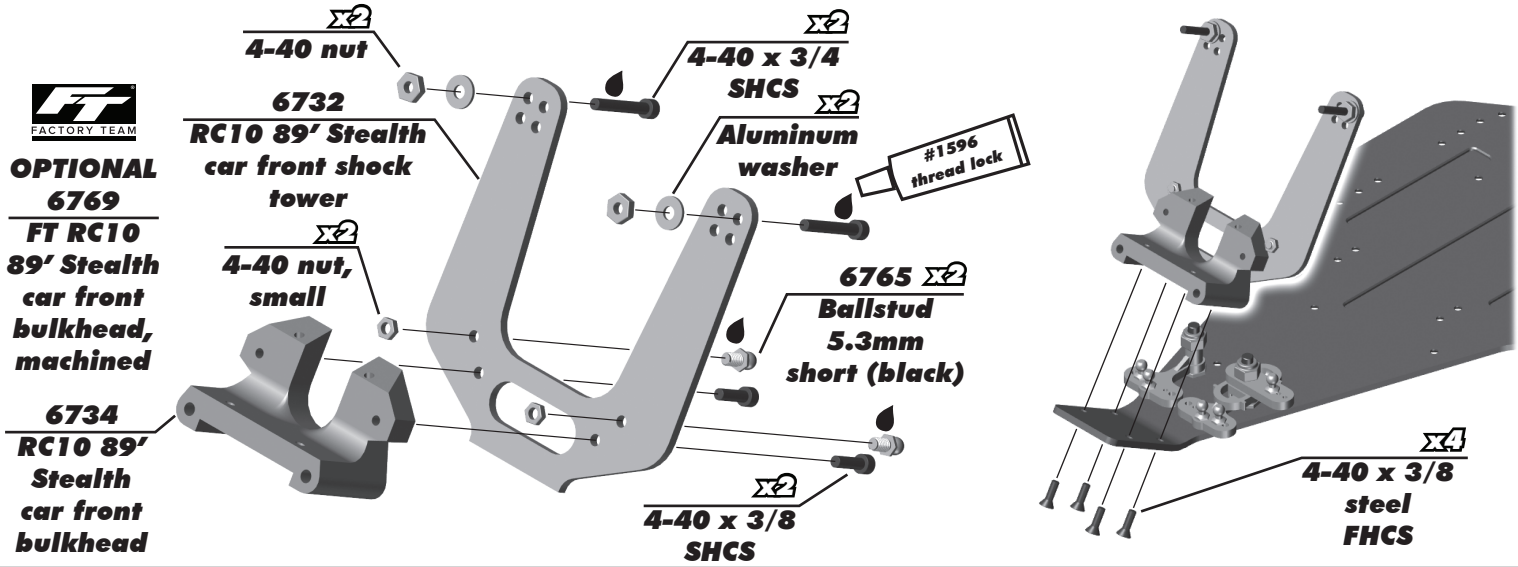


:: Servo Saver Build - Bag A - Step 2

Tighten 8-32 nuts until snug & bellcrank rotates freely!

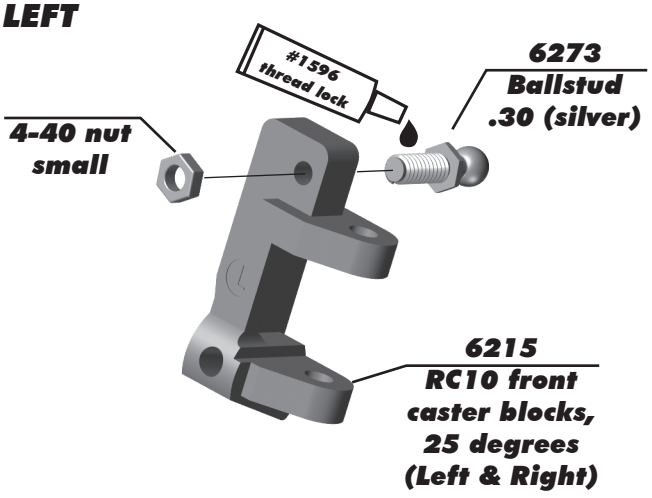


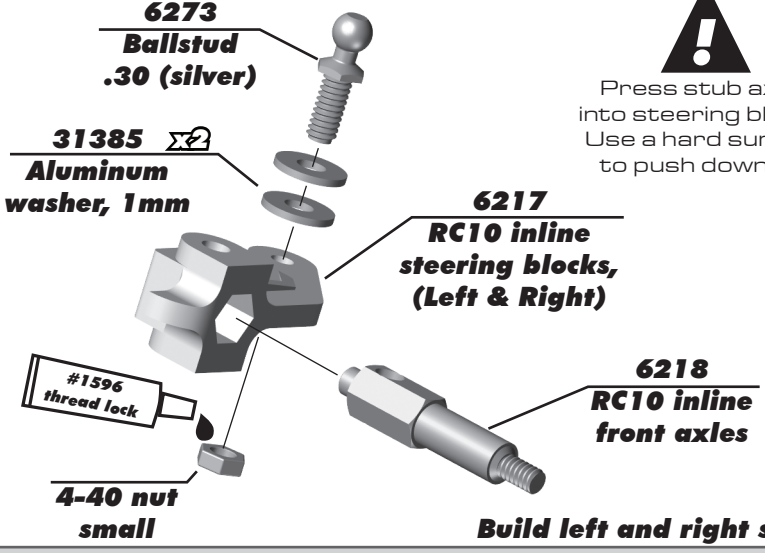
:: Front Arm / Steering Build - Bag B - Step 1



:: Front Arm / Steering Build - Bag B - Step 2

LEFT



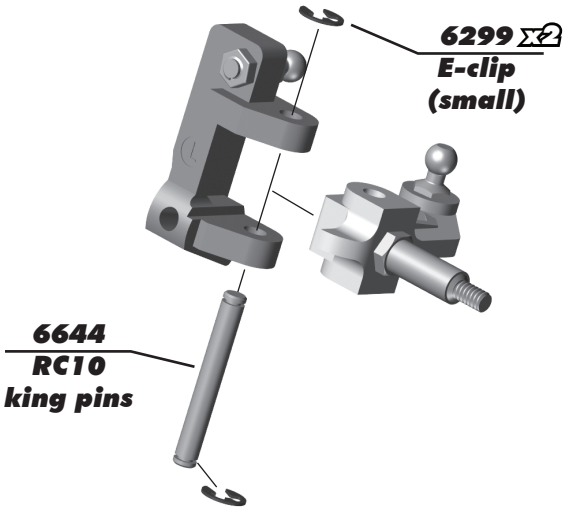


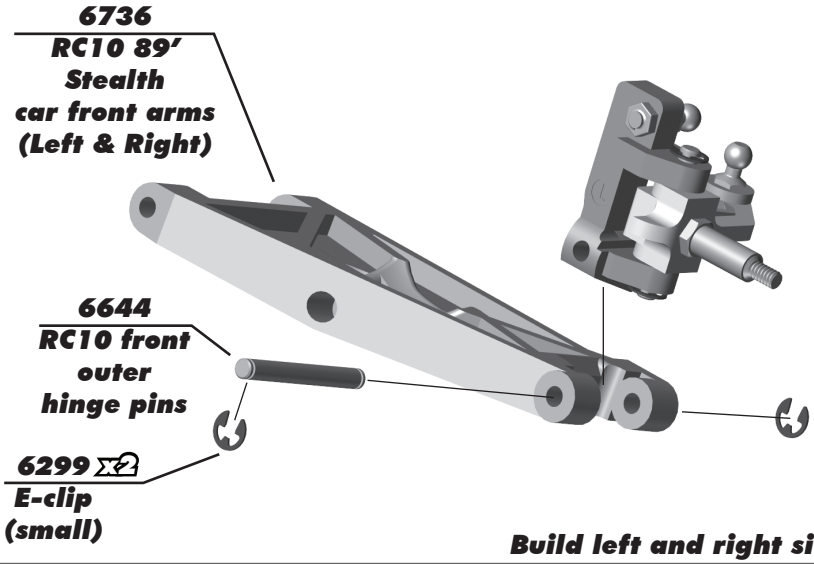
Press stub axles into steering blocks. Use a hard surface to push down on!

Build left and right sides!

Build left and right sides!

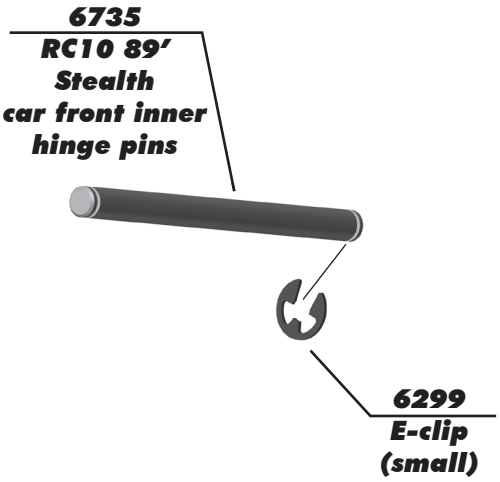
:: Front Arm / Steering Build - Bag B - Step 3

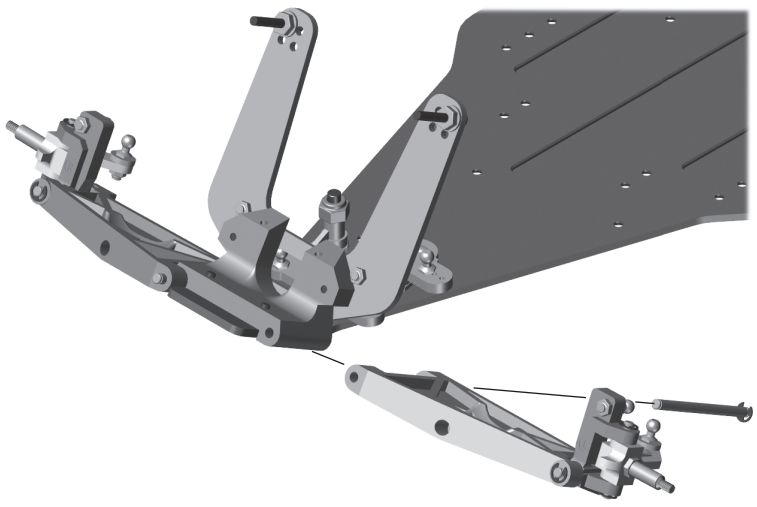




Build left and right sides!

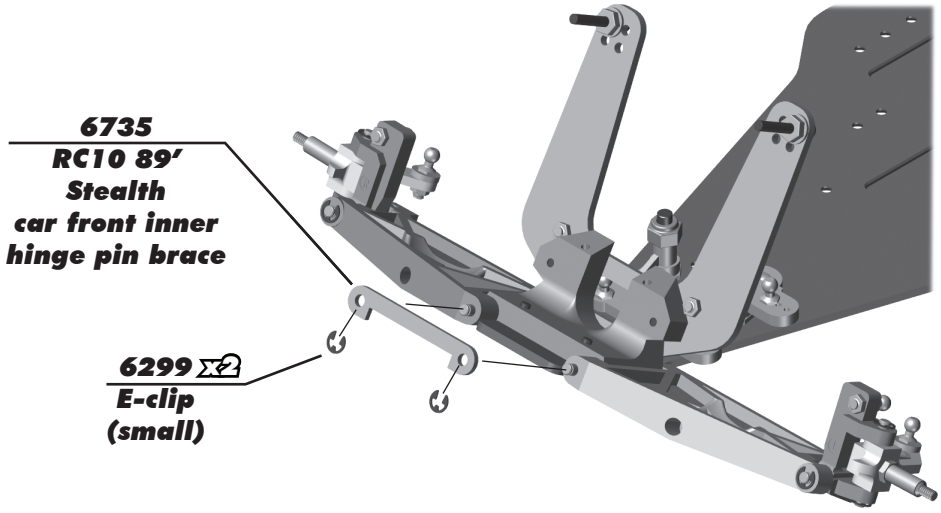
:: Front Arm / Steering Build - Bag B - Step 4



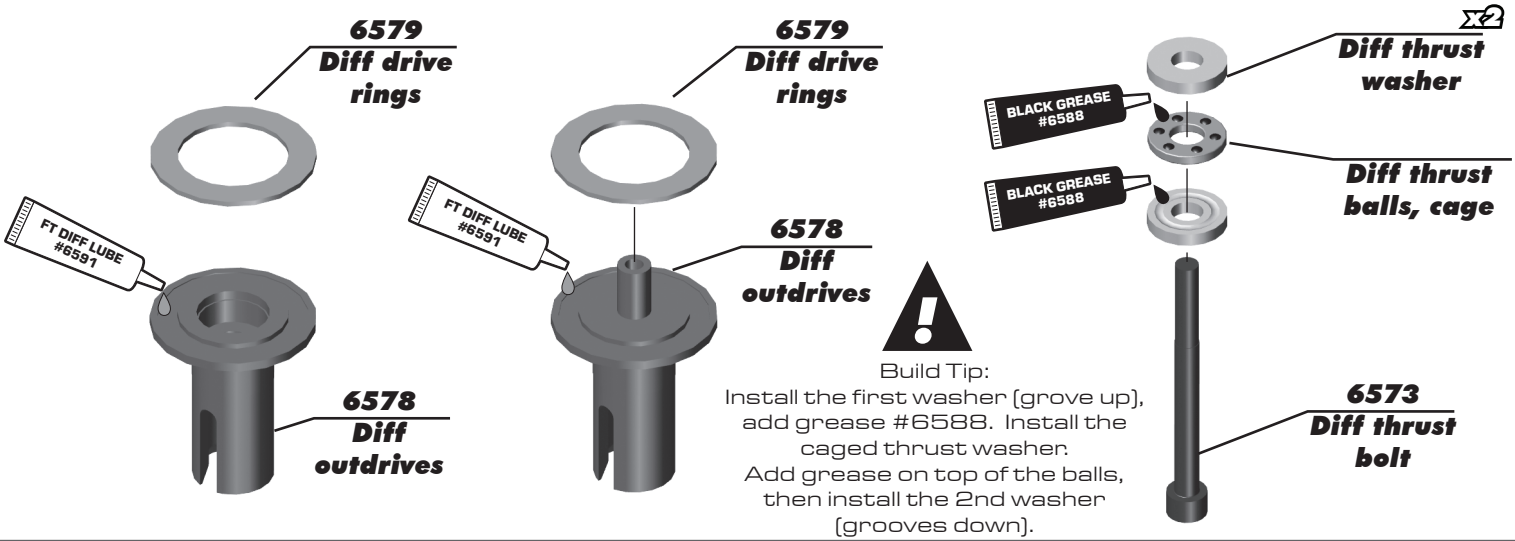


Build left and right sides!

:: Front Arm / Steering Build - Bag B - Step 5

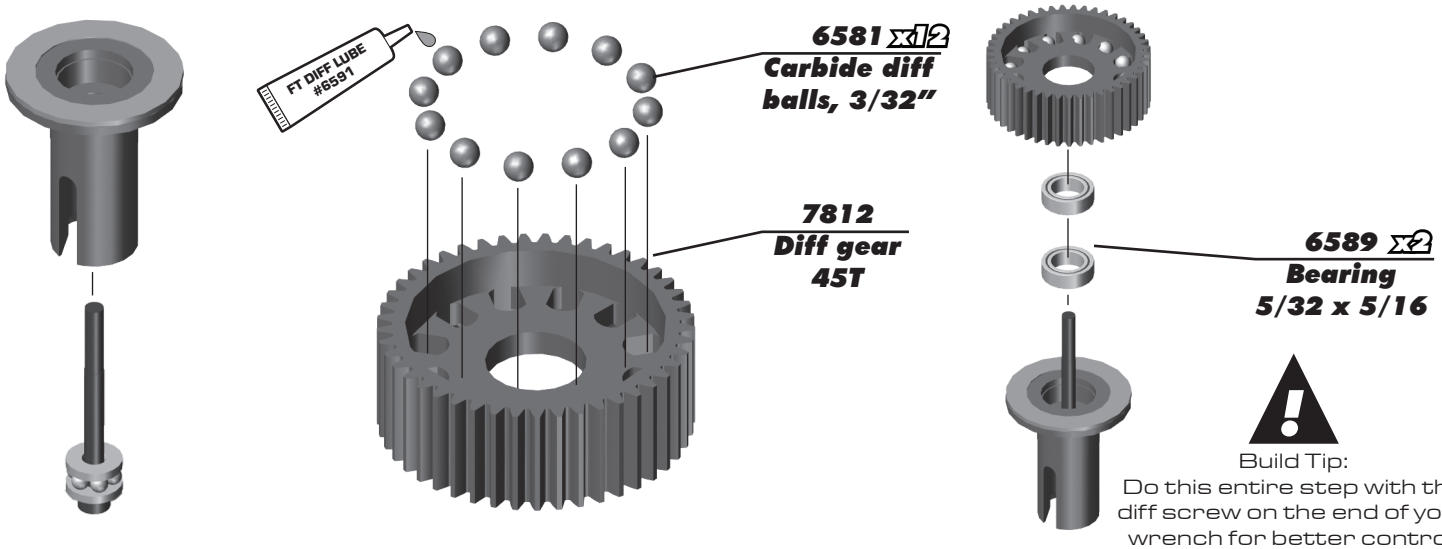


:: Transmission Build - Bag C - Step 1



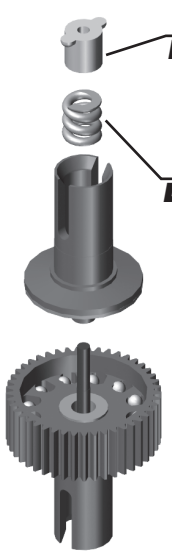
Build Tip:
Install the first washer (grove up), add grease #6588. Install the caged thrust washer.
Add grease on top of the balls, then install the 2nd washer (grooves down).

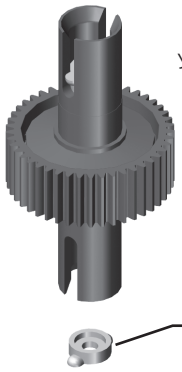
:: Transmission Build - Bag C - Step 2



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

:: Transmission Build - Bag C - Step 3

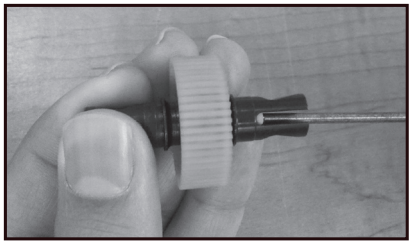




As you tighten the diff bolt, you will notice the T-nut ears moving closer to the bottom of the outdrive slot. This compresses the spring behind the T-nut. The spring should be completely compressed at the time the T-nut reaches the end of the slot.

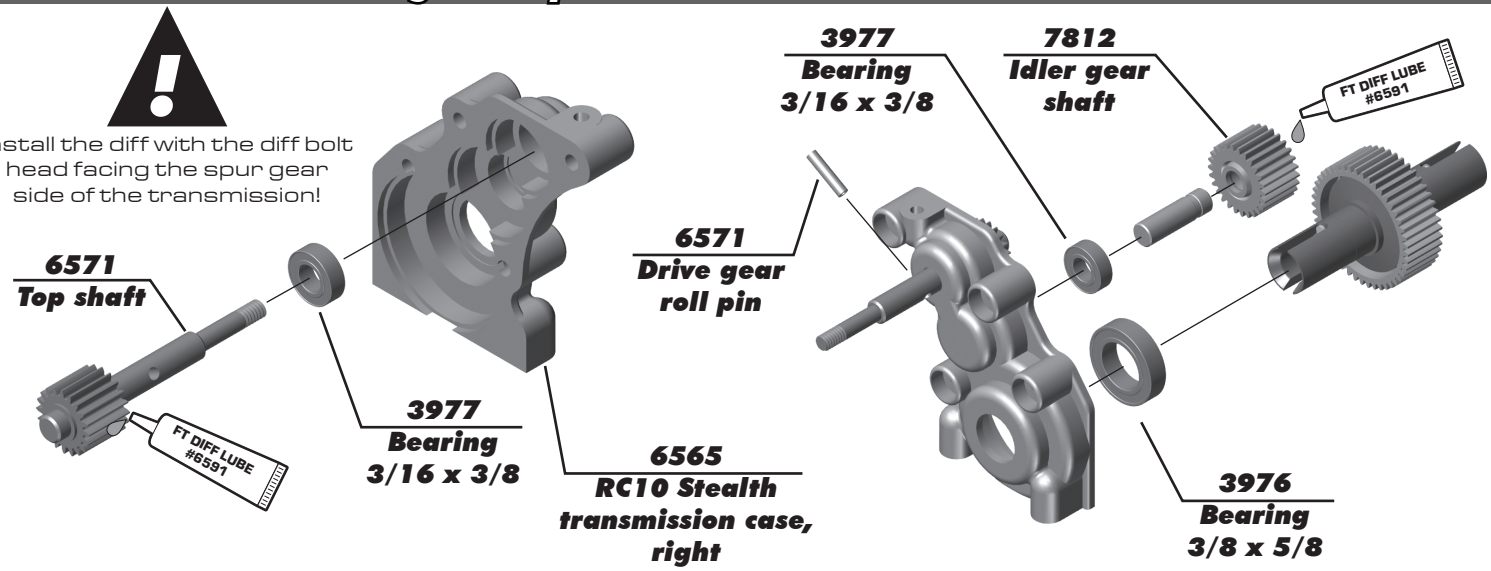
Caution! Pay close attention to the feeling when the spring is completely compressed. Do not overtighten the bolt. When you feel the spring completely compressed, loosen the diff bolt 1/8 of a turn. Your diff should now operate smoothly but with resistance as the outdrives move in opposite directions.

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

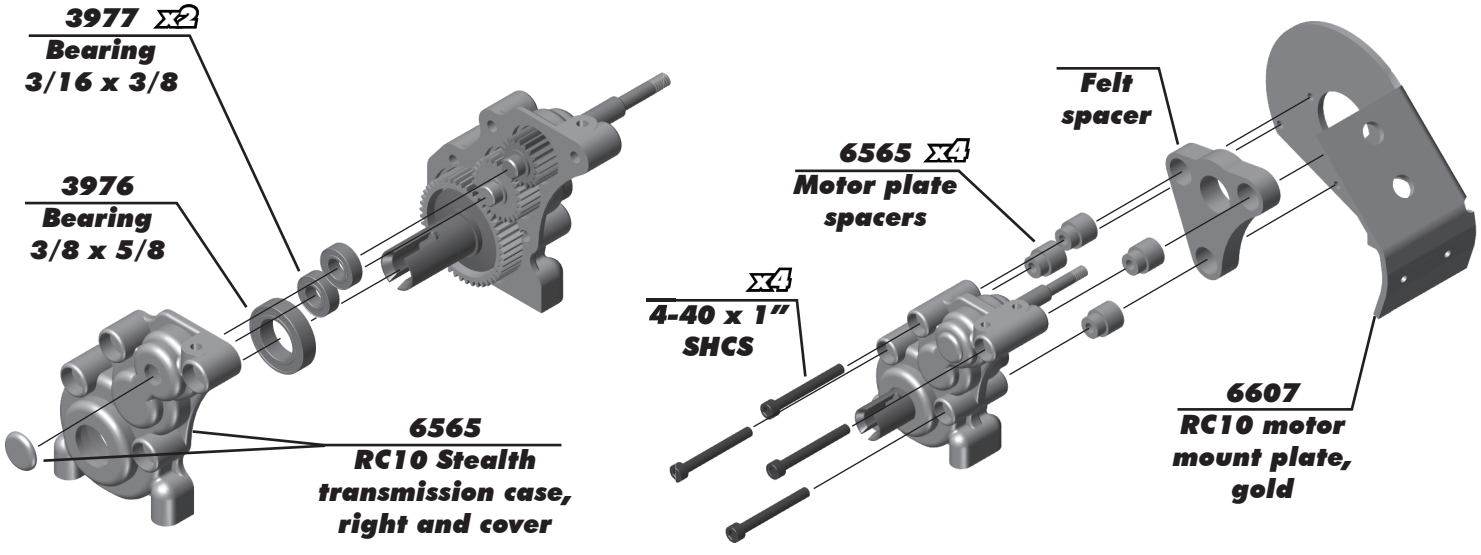


:: Transmission Build - Bag C - Step 4

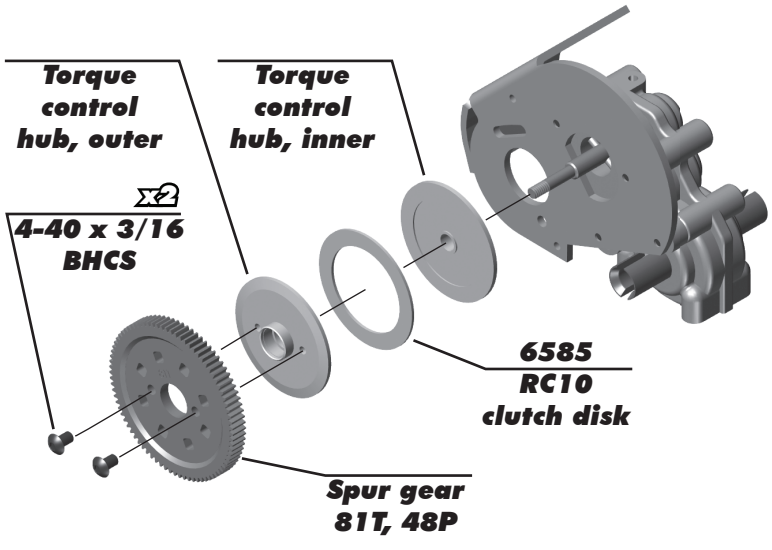
Install the diff with the diff bolt head facing the spur gear side of the transmission!

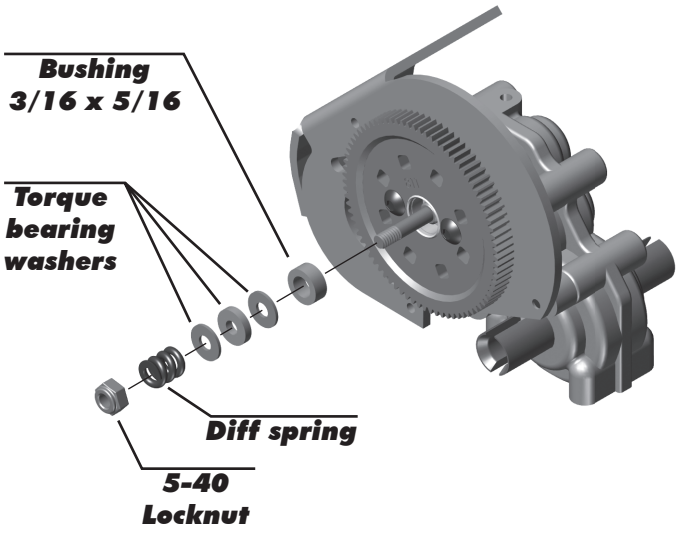


:: Transmission Build - Bag C - Step5

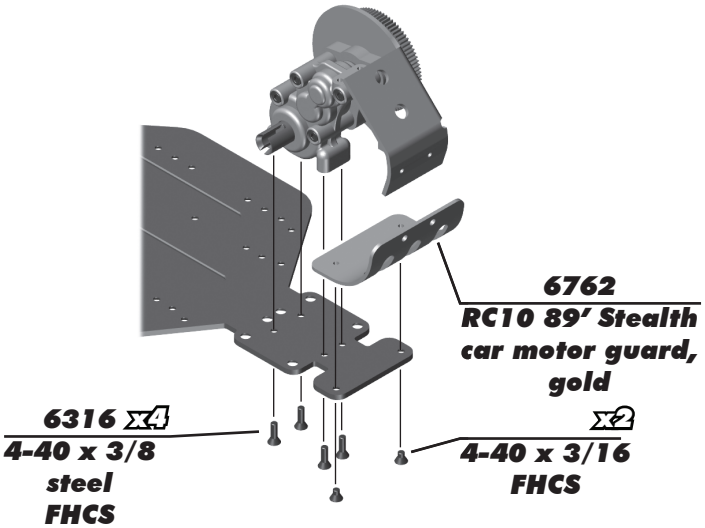


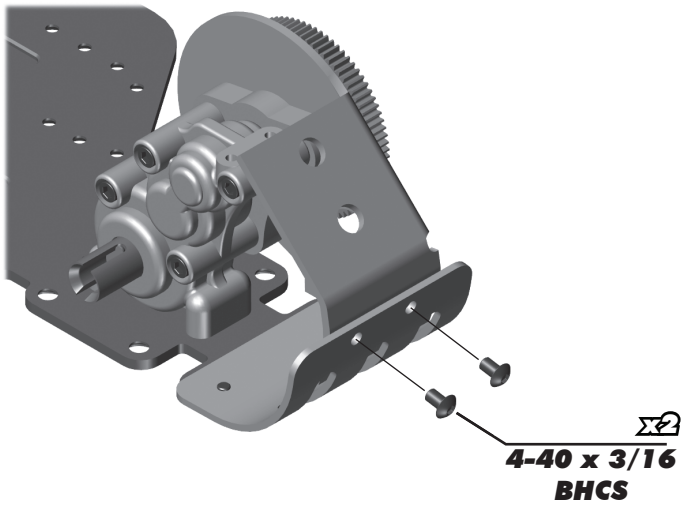
:: Transmission Build - Bag C - Step 6



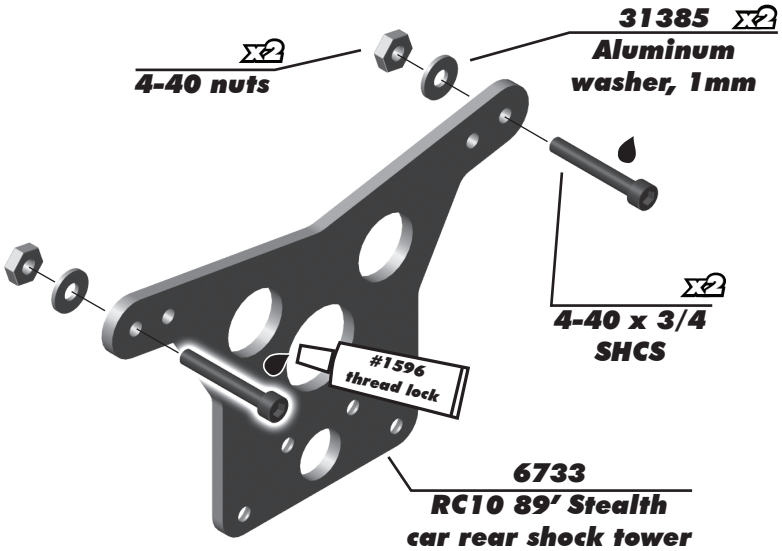


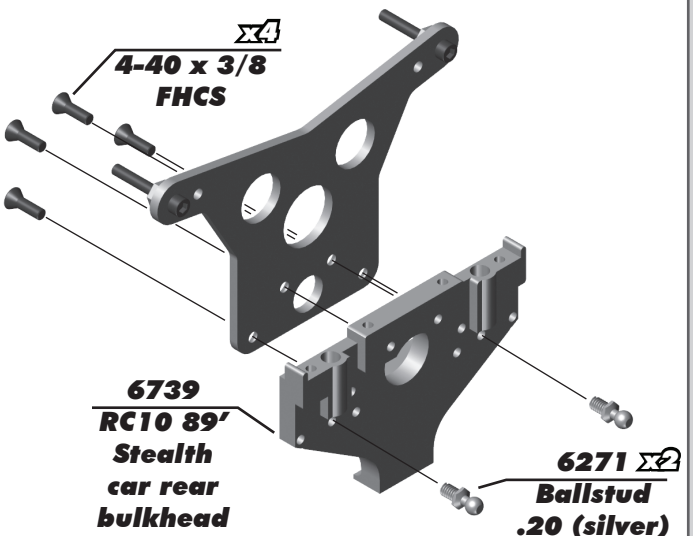
:: Transmission Build - Bag C - Step 7



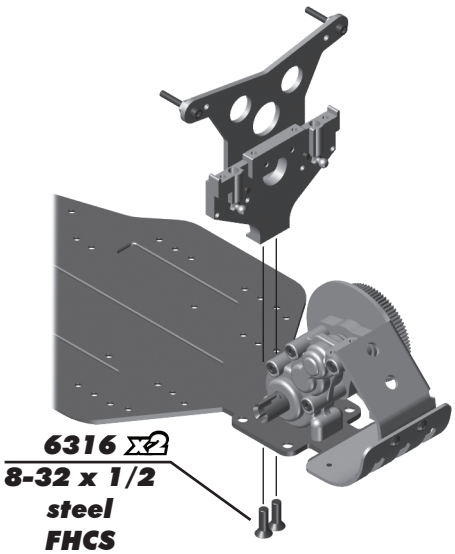


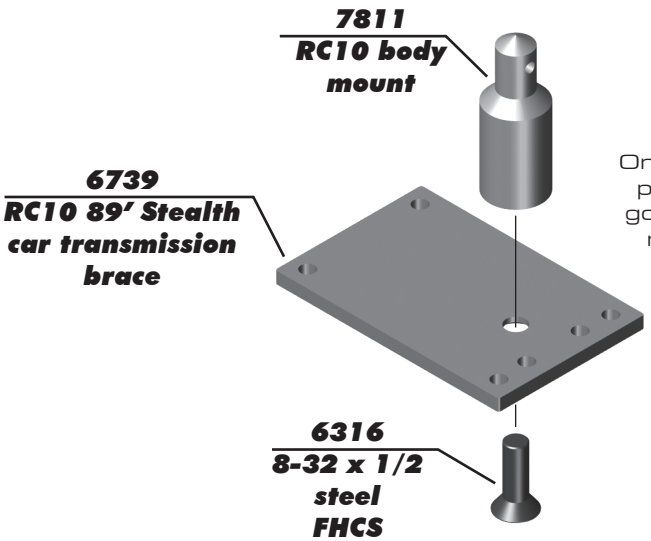
:: Rear Bulkhead Build - Bag D - Step 1





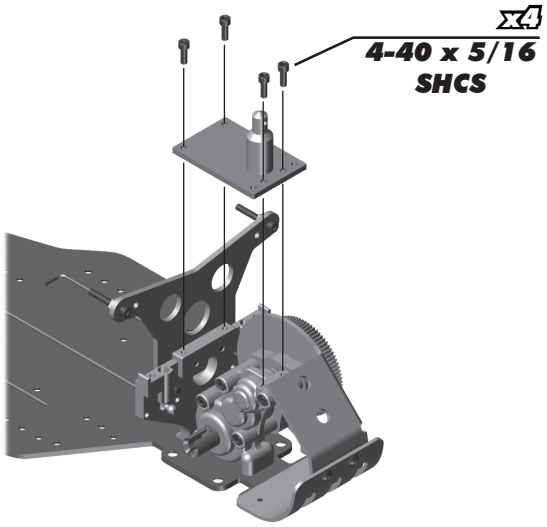
:: Rear Bulkhead Build - Bag D - Step 2

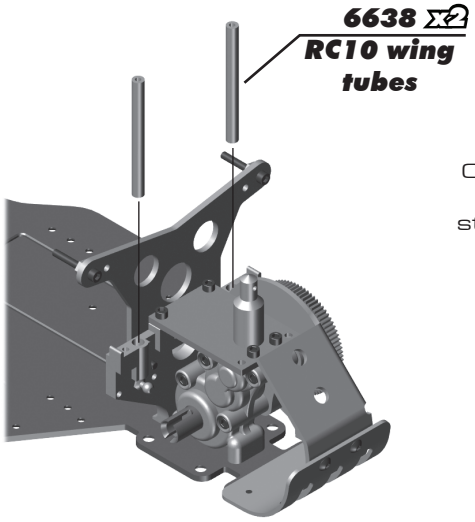




Optional
Only install rear body post if you are not going to trim off the rear of the body.

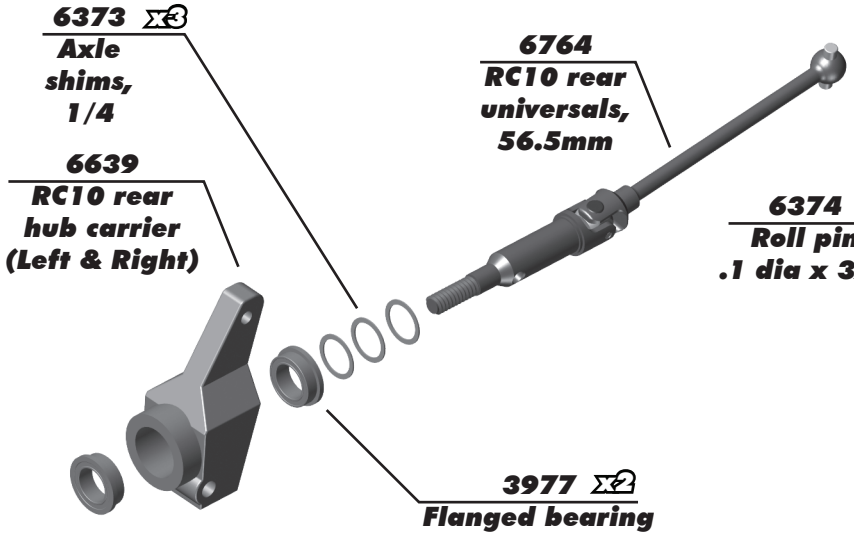
:: Rear Bulkhead Build - Bag D - Step 3



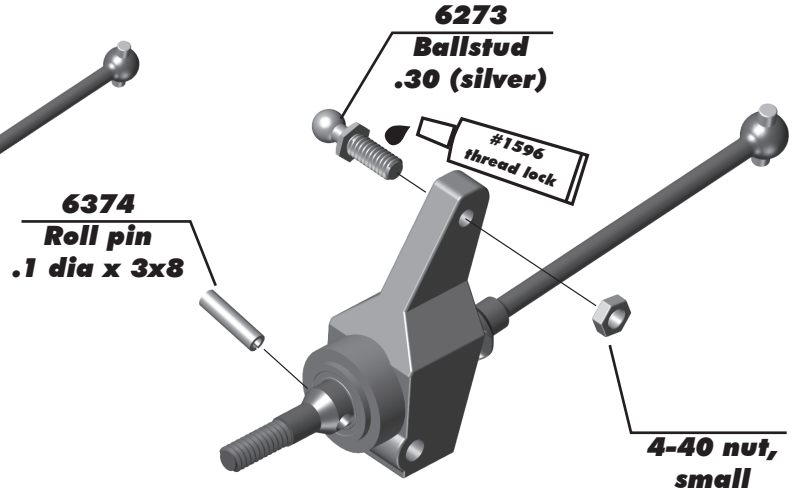


Optional
Only install wing tubes if you plan to use standard #6648 wing wire mounts

:: Rear Bulkhead Build - Bag D - Step 4

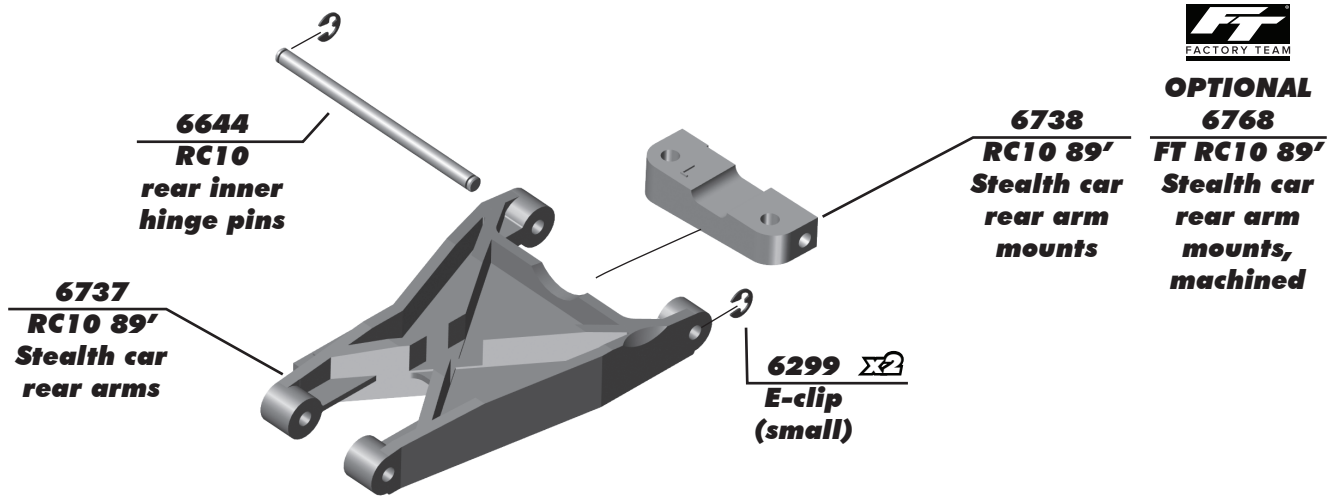


Build left and right sides!



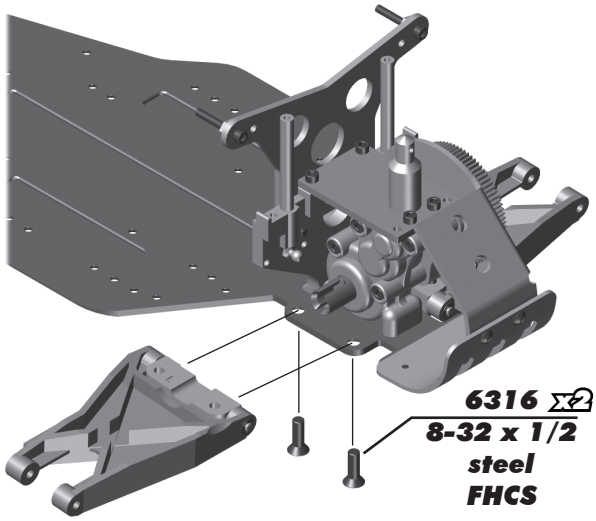
Build left and right sides!

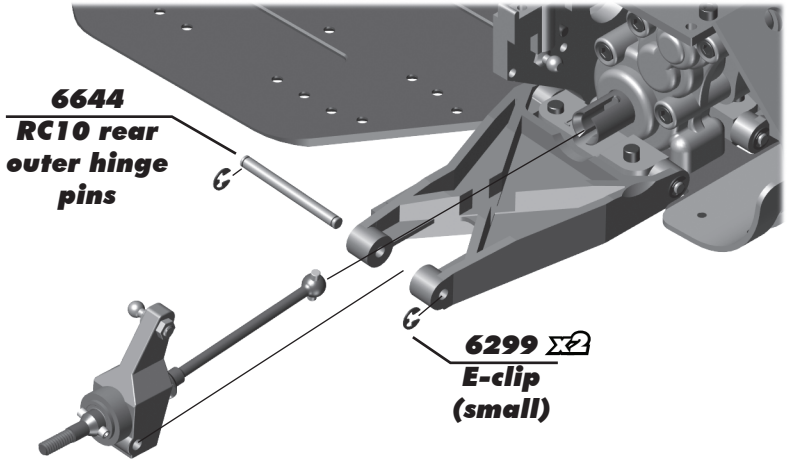
:: Rear Bulkhead Build - Bag D - Step 5



Build left and right sides!

:: Rear Bulkhead Build - Bag D - Step 6

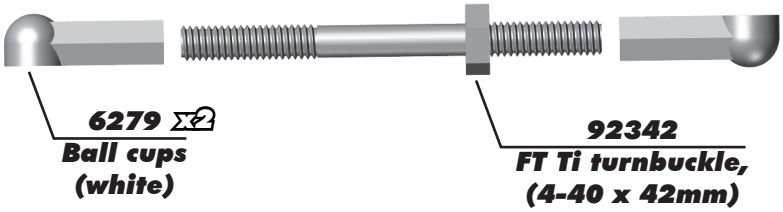




Build left and right sides!

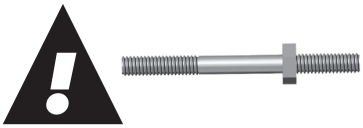
Build left and right sides!

:: Turnbuckles Build - Bag E - Step 1

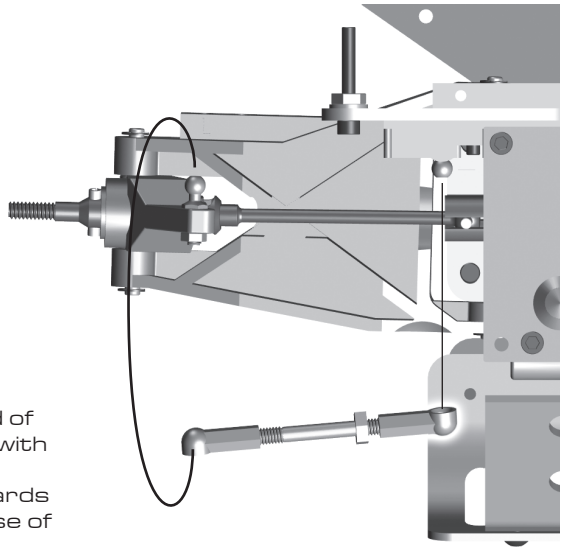


Rear Camber Turnbuckle
1.02" (26mm)

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

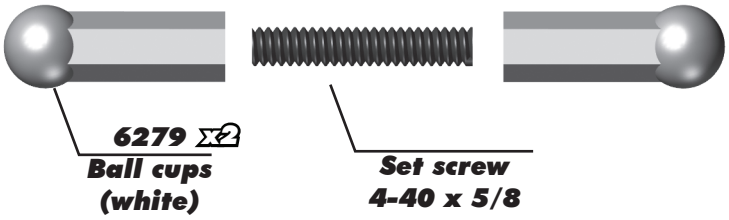


The adjustment nut on the end of the turnbuckles notes the side with the right hand threads. Masami mounted the nuts towards the outside of the vehicle for ease of adjustment.

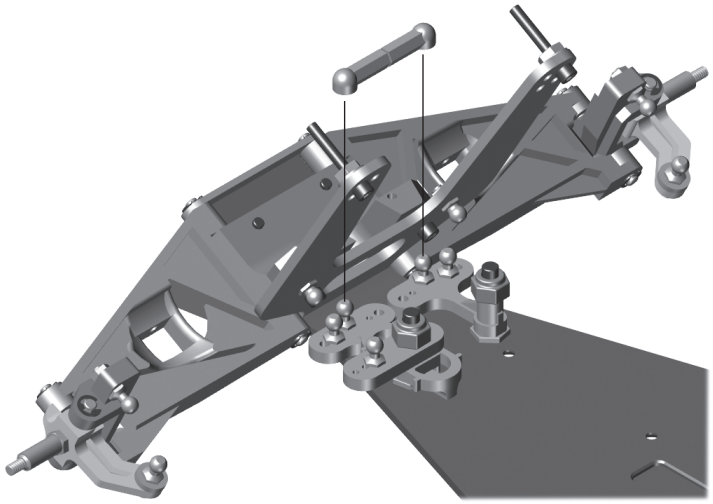


Build left and right sides!

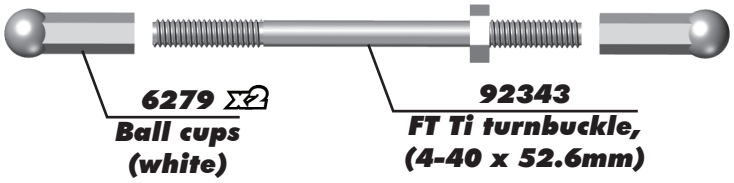
:: Turnbuckles Build - Bag E - Step 2



Steering Rack Turnbuckle
1.30" (33mm)



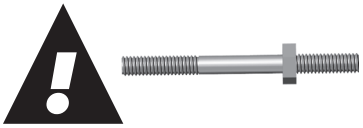
:: Turnbuckles Build - Bag E - Step 3



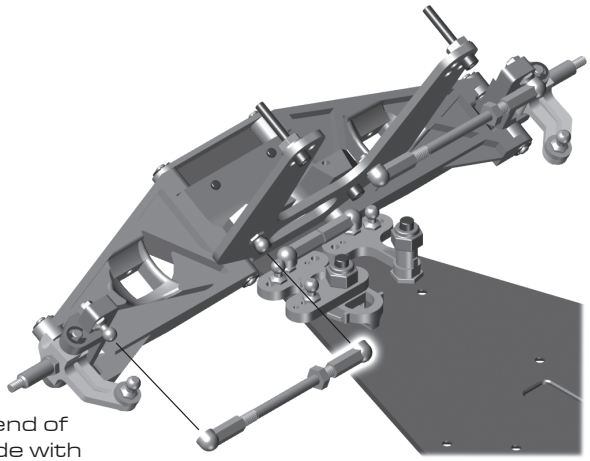
Front Camber Turnbuckle
1.53" (39mm)

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

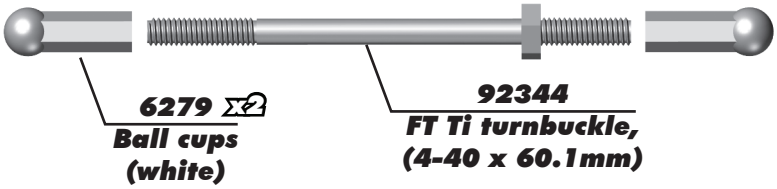
Build left and right sides!



The adjustment nut on the end of the turnbuckles notes the side with the right hand threads. Masami mounted the nuts towards the outside of the vehicle for ease of adjustment.



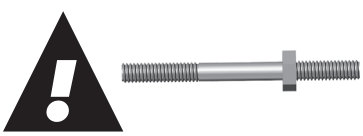
:: Turnbuckles Build - Bag E - Step 4



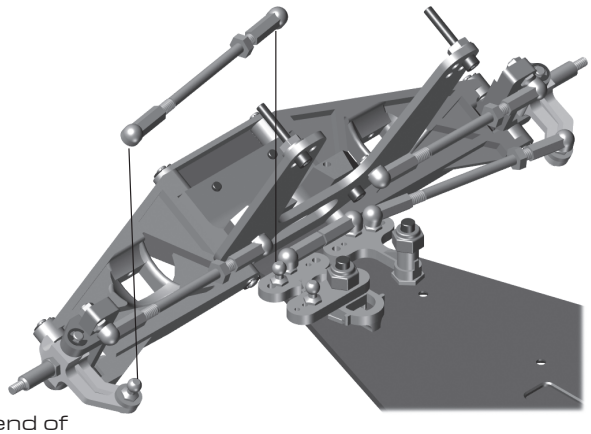
Steering Turnbuckle
1.65" (42mm)

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!



The adjustment nut on the end of the turnbuckles notes the side with the right hand threads. Masami mounted the nuts towards the outside of the vehicle for ease of adjustment.



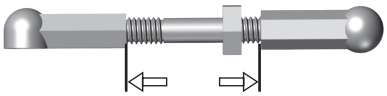
:: Turnbuckles Build - Bag E - Step 5

Set aside until you are installing the servo!

6279 x2
Ball cups (white)

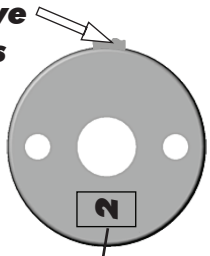
92341
FT Ti turnbuckle, (4-40 x 35mm)

Servo Turnbuckle 0.70" (18mm)



The adjustment nut on the end of the turnbuckles notes the side with the right hand threads. Masami mounted the nuts towards the outside of the vehicle for ease of adjustment.

:: Shocks Build - Bag F - Step 1

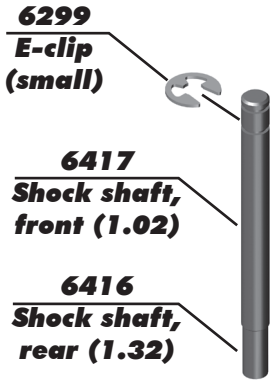


Remove spurs

Piston

Piston number here
Use #2 = front shocks
Use #1 = rear shocks

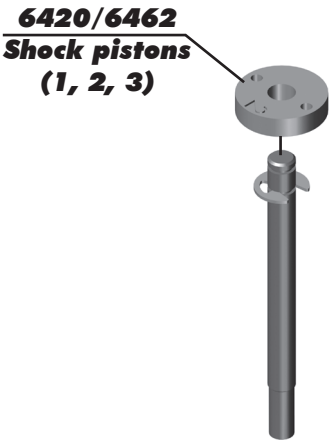
TIP: Use marker to mark the piston numbers for easy identification!



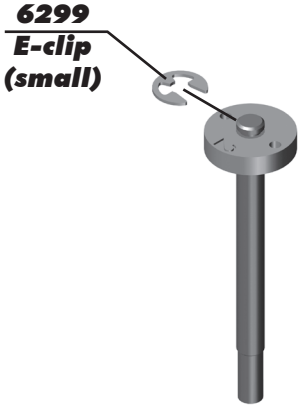
6299
E-clip (small)

6417
Shock shaft, front (1.02)

6416
Shock shaft, rear (1.32)



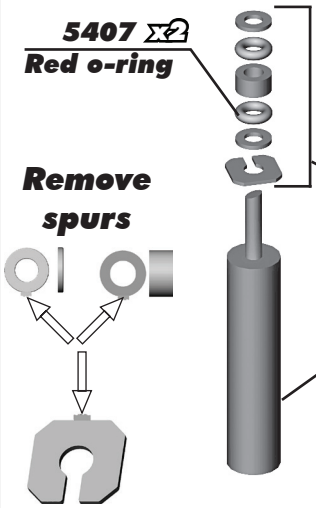
6420/6462
Shock pistons (1, 2, 3)



6299
E-clip (small)

Build two front and two rear!

:: Shocks Build - Bag F - Step 2



5407 x2
Red o-ring

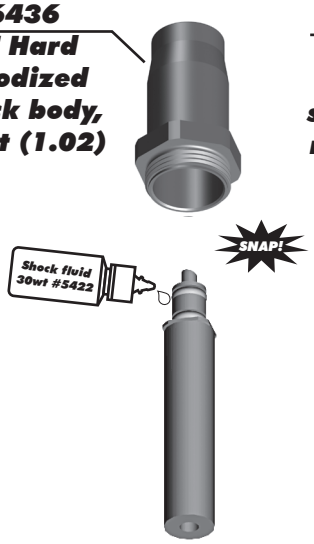
Remove spurs

6420/6462 x2
Off-road shock rebuild kit

Shock assembly tool

Front Shock

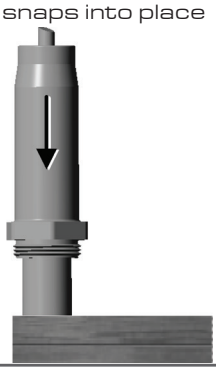
6436
FT Hard Anodized shock body, front (1.02)



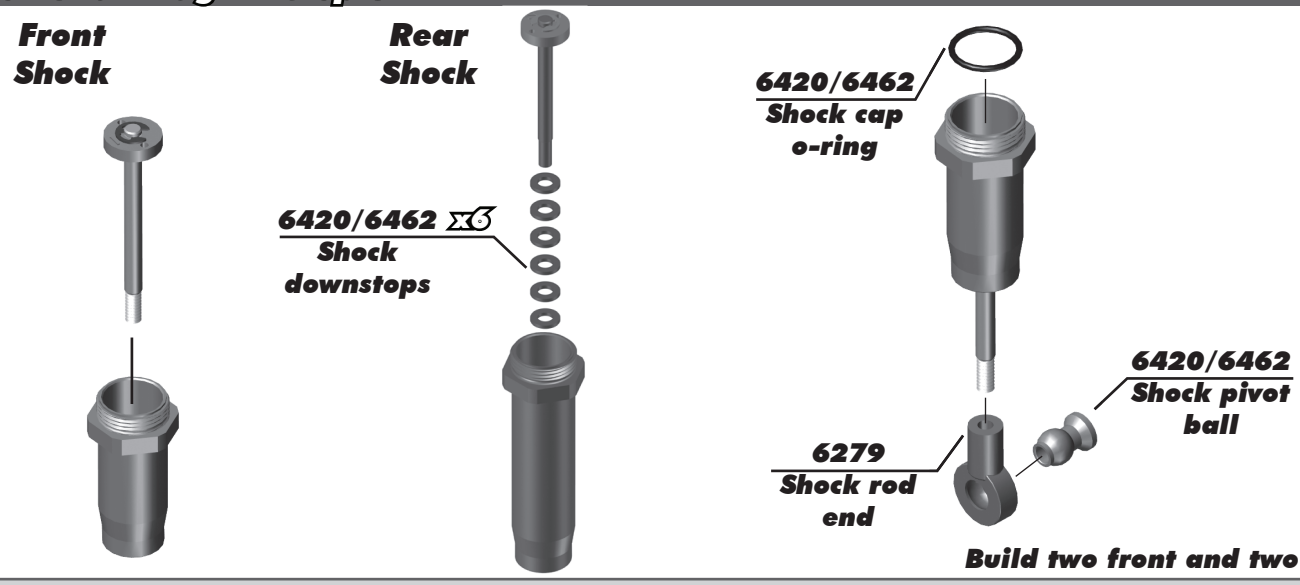
Rear Shock

6435
FT Hard Anodized shock body, rear (1.32)

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

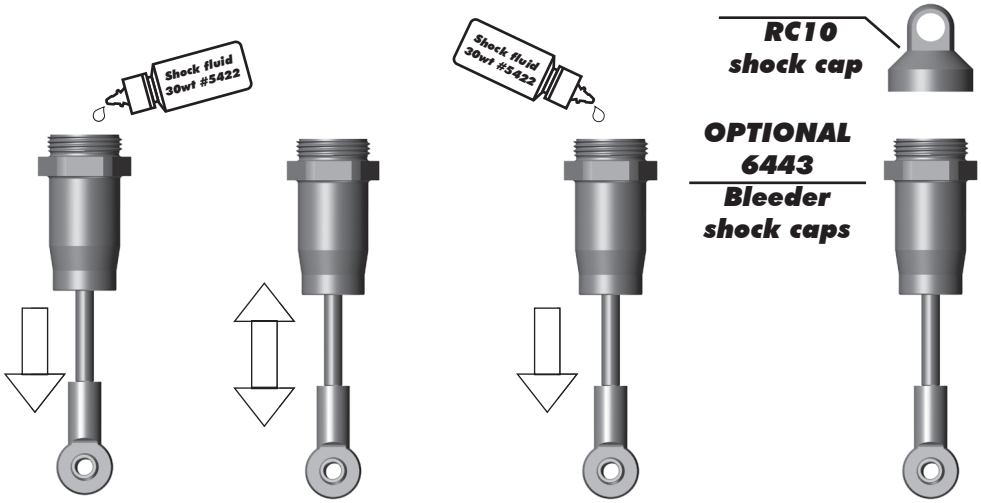


:: Shocks Build - Bag F - Step 3



Build two front and two rear!

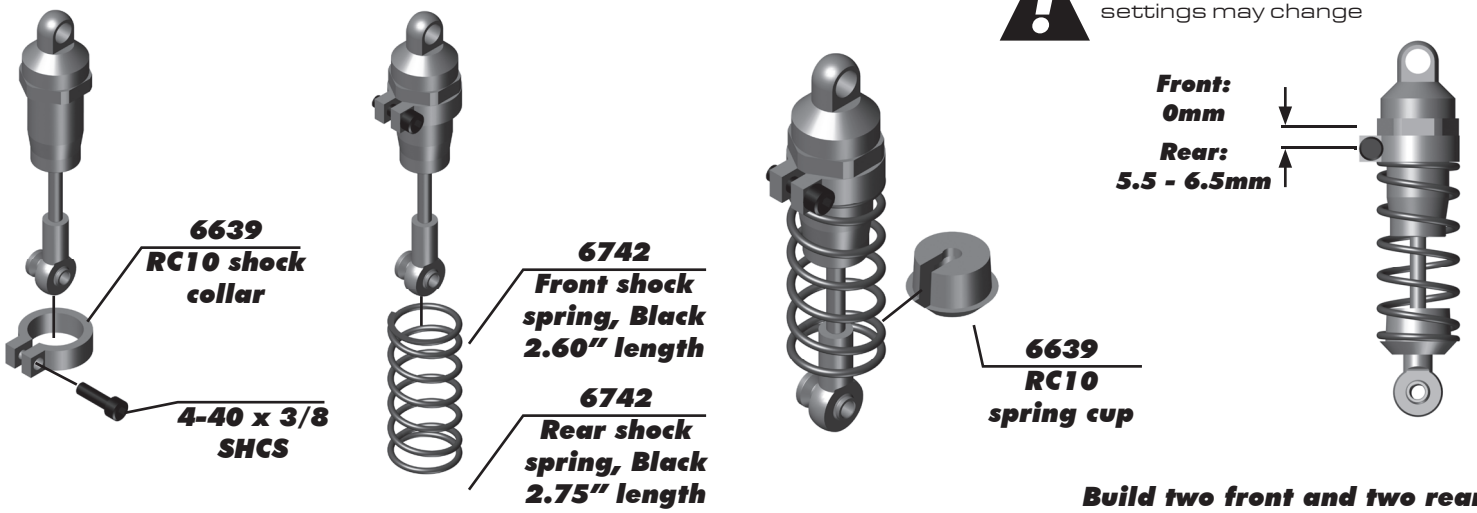
:: Shocks Build - Bag F - Step 4



* 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.

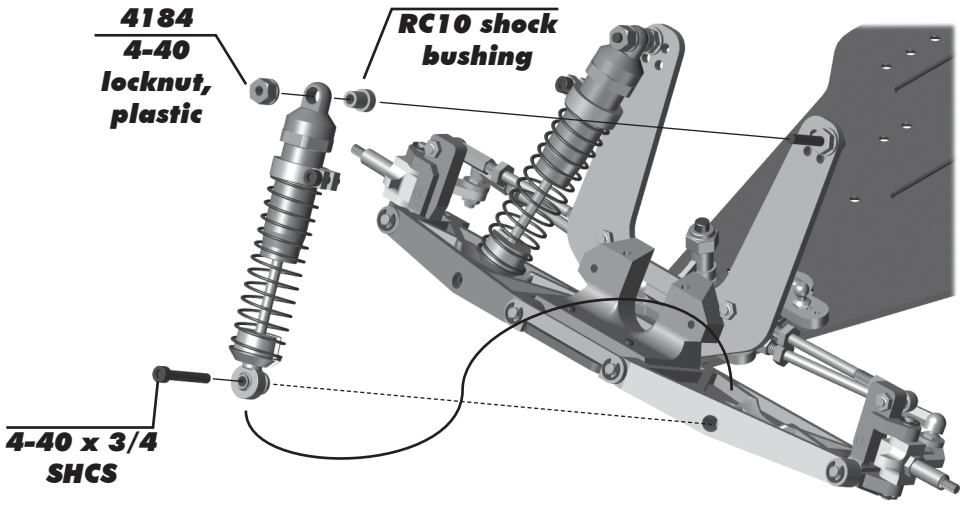
:: Shocks Build - Bag F - Step 5



Due to various weights of electronics, these settings may change

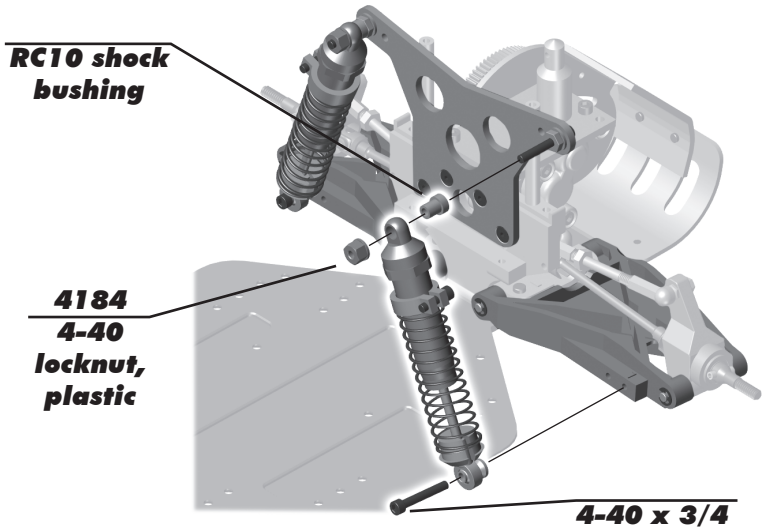
Build two front and two rear!

:: Shocks Build - Bag F - Step 6



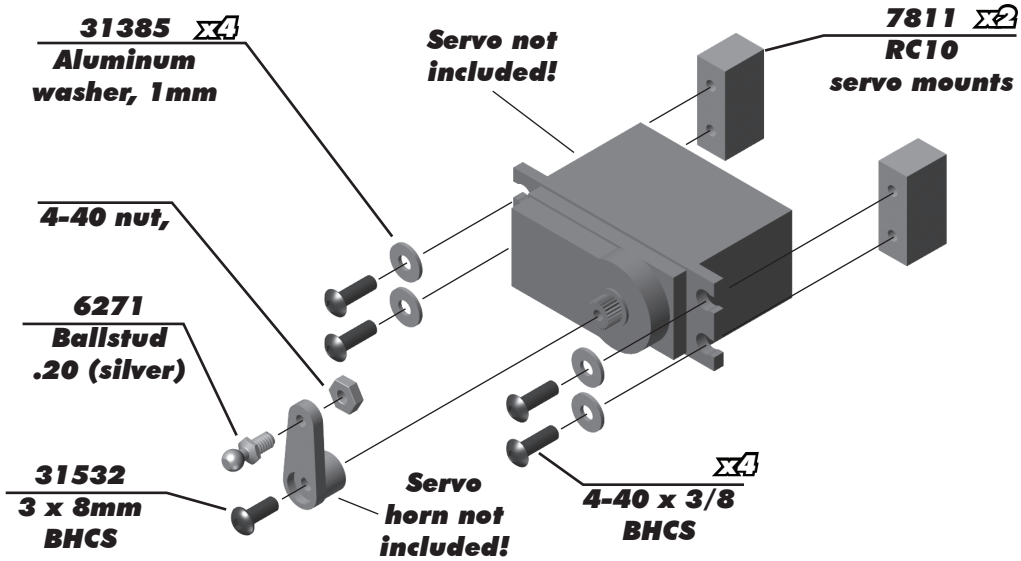
Build left and right sides!

:: Shocks Build - Bag F - Step 7

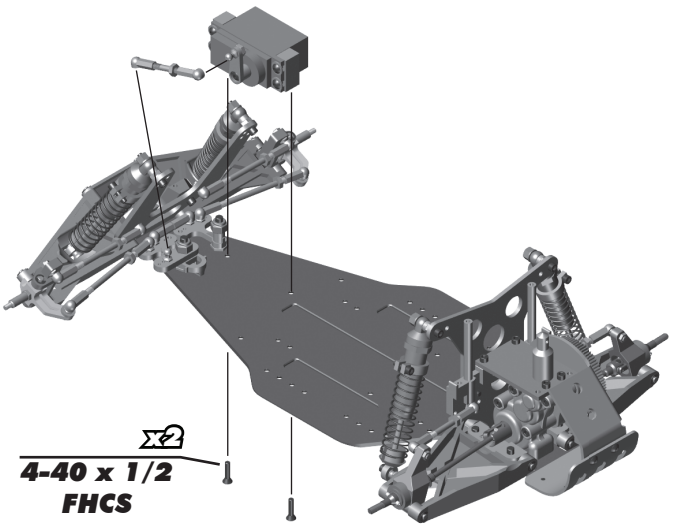


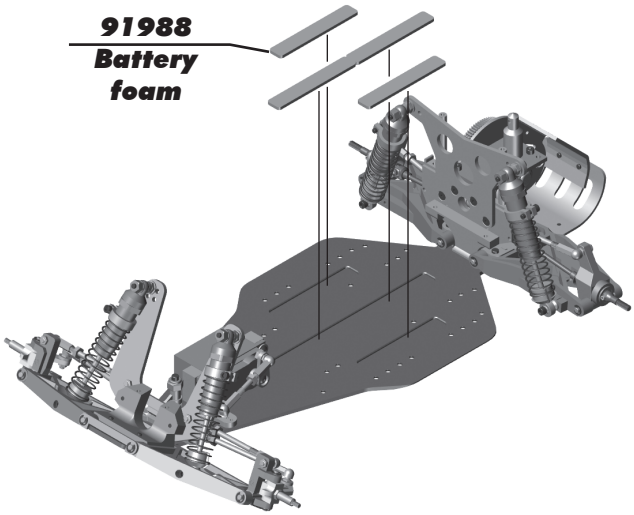
Build left and right sides!

:: Electronics Build - Bag G - Step 1

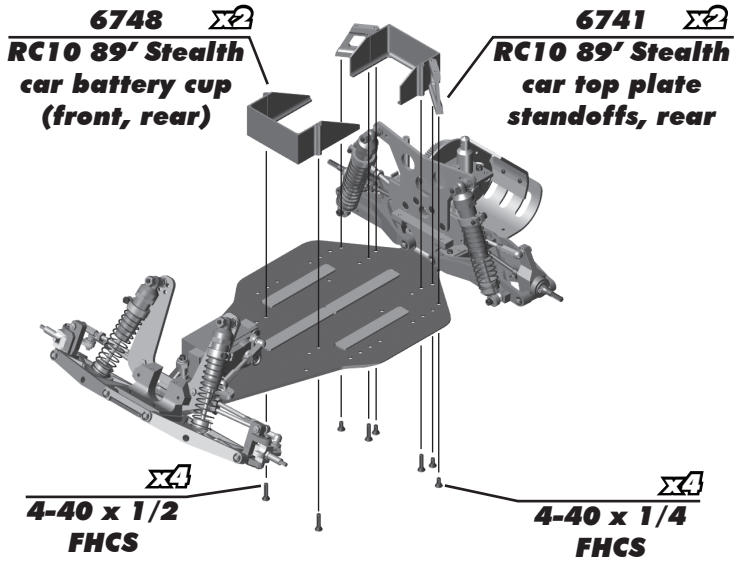


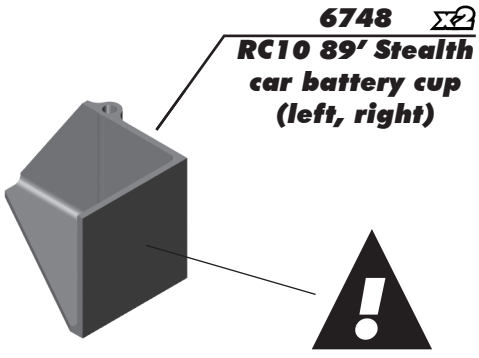
:: Electronics Build - Bag G - Step 2



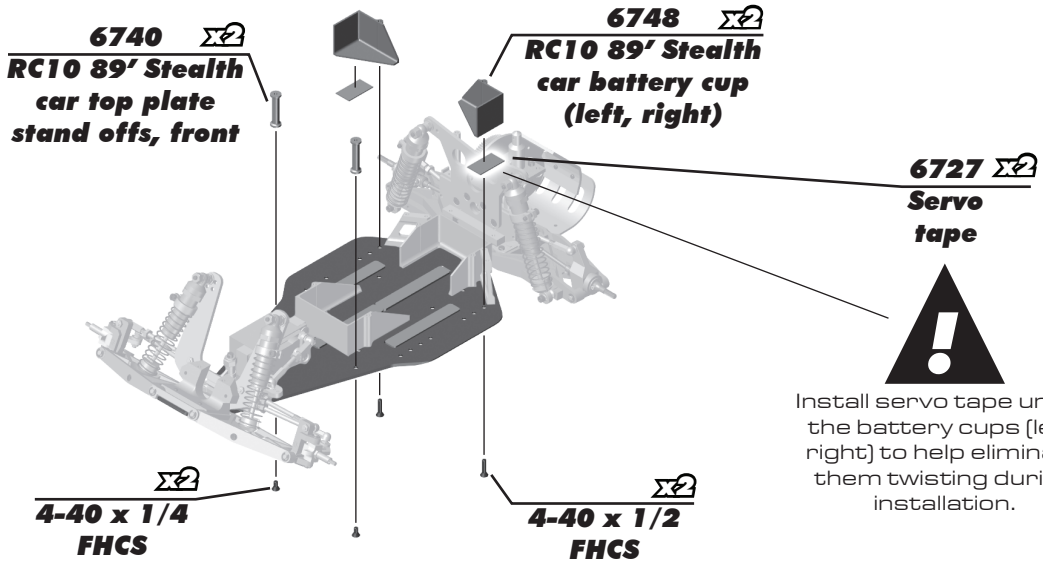


:: Electronics Build - Bag G - Step 3





:: Electronics Build - Bag G - Step 4



:: Electronics Build - Bag G - Step 5

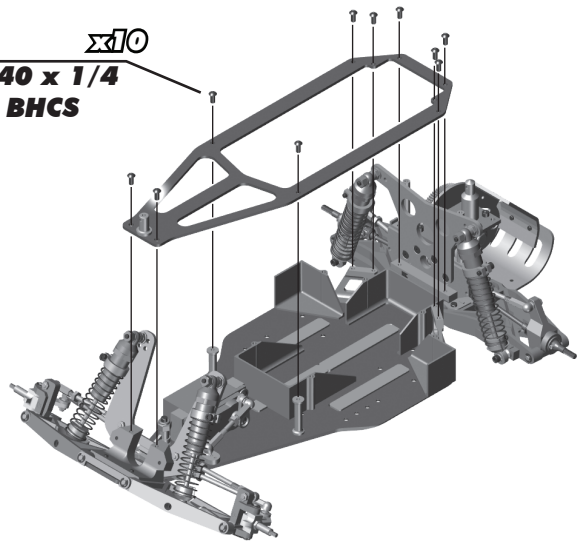
Front body mount is located in bag A!

6736
RC10 89' Stealth car front body mount

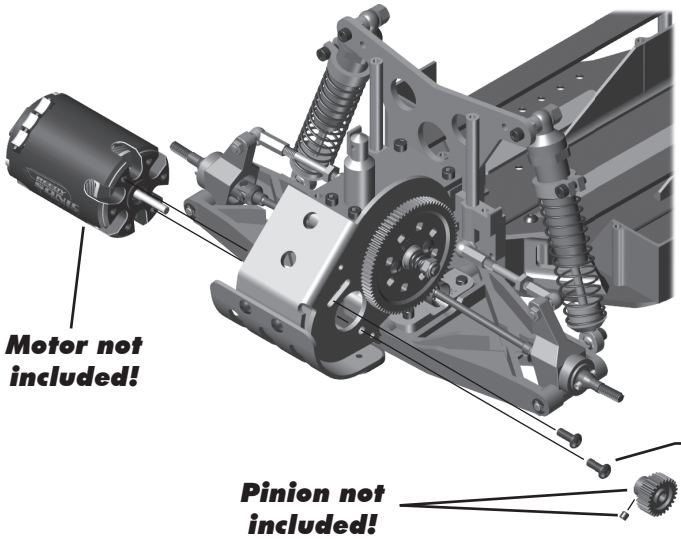
6731
RC10 89' Stealth car upper deck, carbon fiber

4-40 x 3/8 BHCS

x10
4-40 x 1/4 BHCS



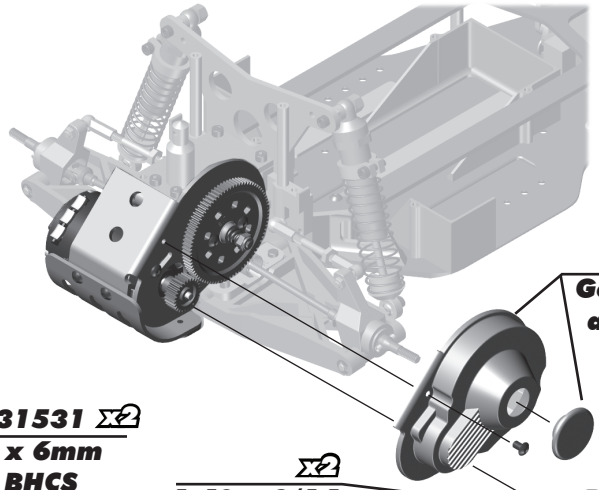
:: Electronics Build - Bag G - Step 6



Motor not included!

31531 x2
3 x 6mm BHCS

Pinion not included!



6566
Gear cover and plug

x2
4-40 x 3/16 BHCS

Gear cover, plug, and hardware are located in bag C!

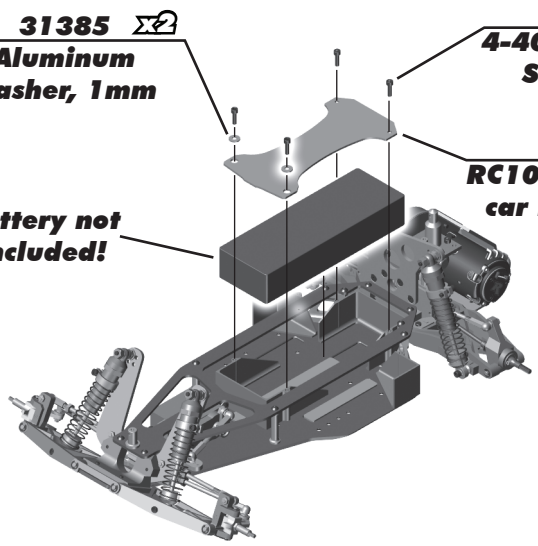
:: Electronics Build - Bag G - Step 7

31385 x2
Aluminum washer, 1mm

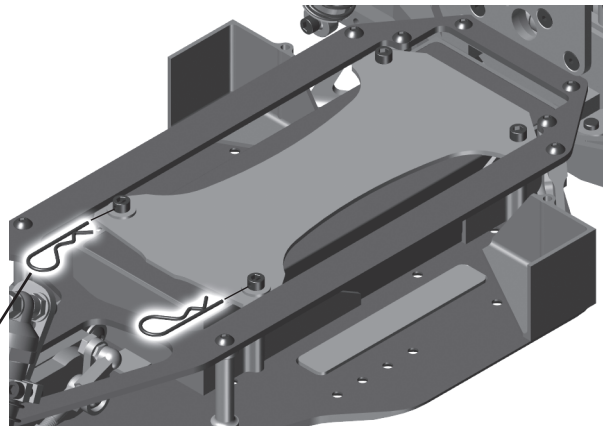
x4
4-40 x 3/8 SHCS

6747
RC10 89' Stealth car ESC mount

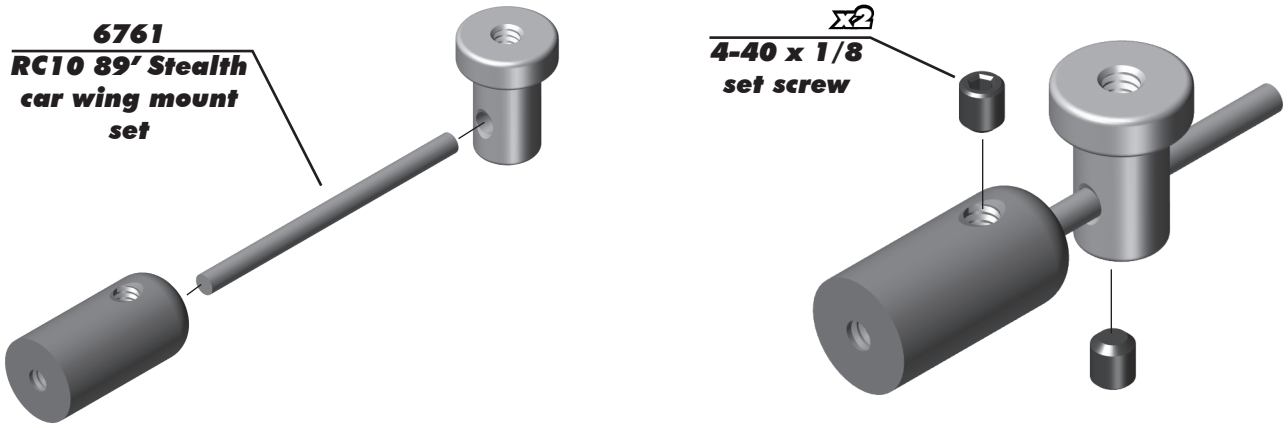
Battery not included!



6332 x2
Body clip

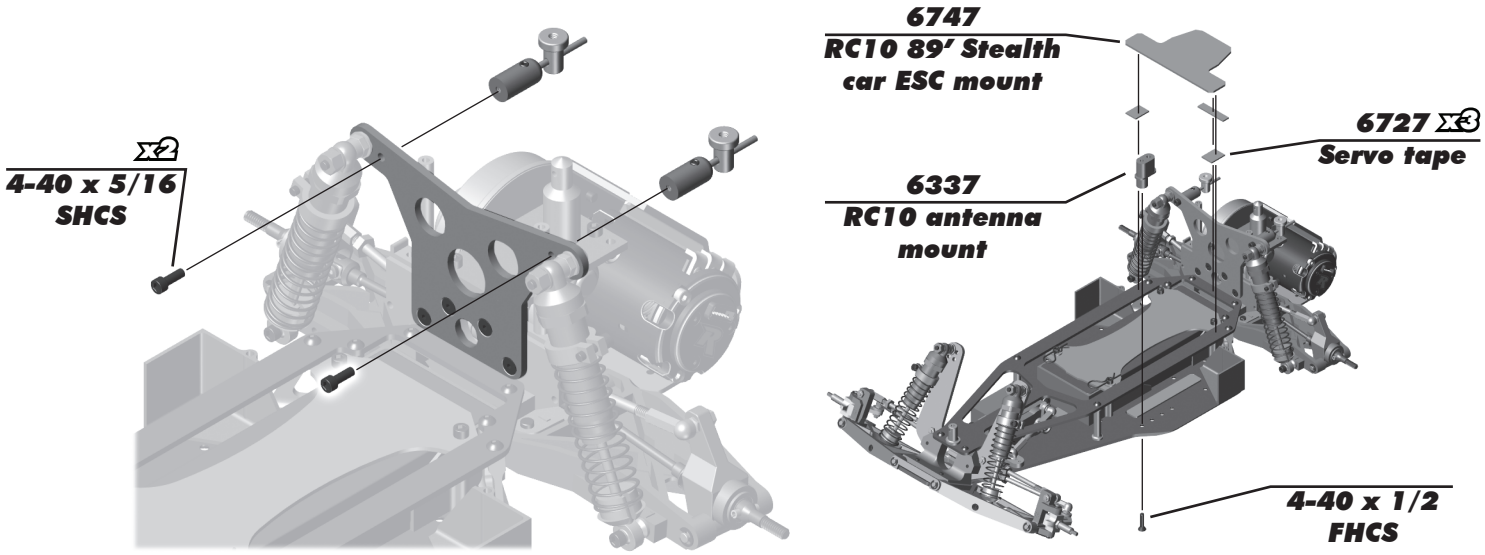


:: Electronics Build - Bag G - Step 8

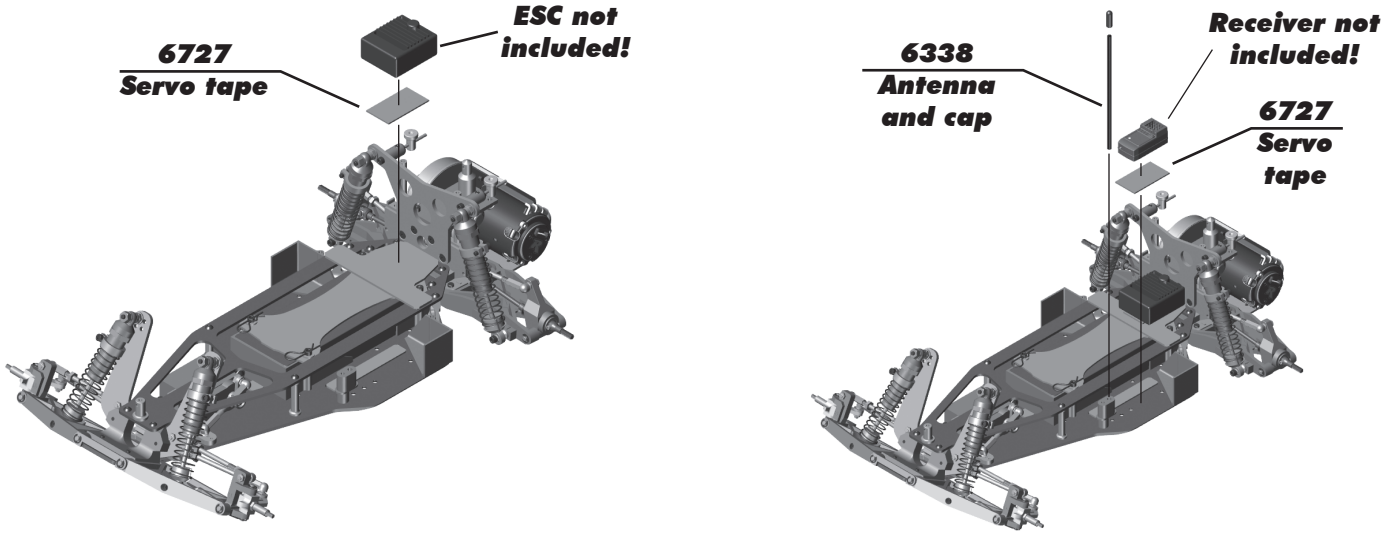


Build 2

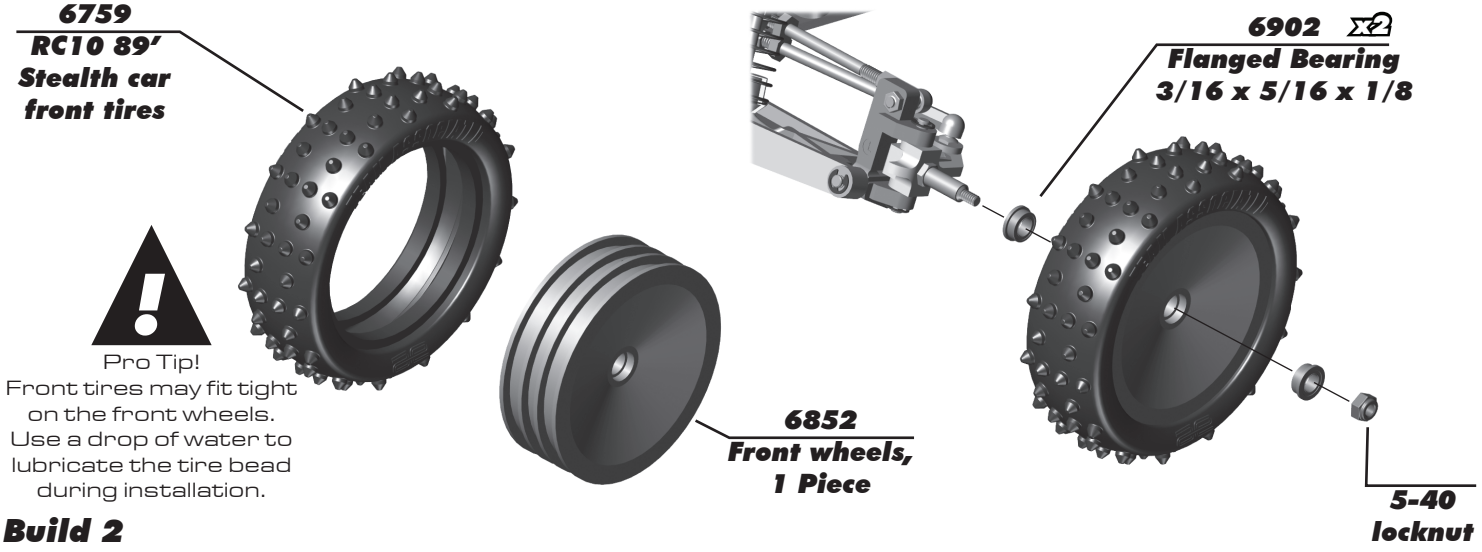
:: Electronics Build - Bag G - Step 9



:: Electronics Build - Bag G - Step 10

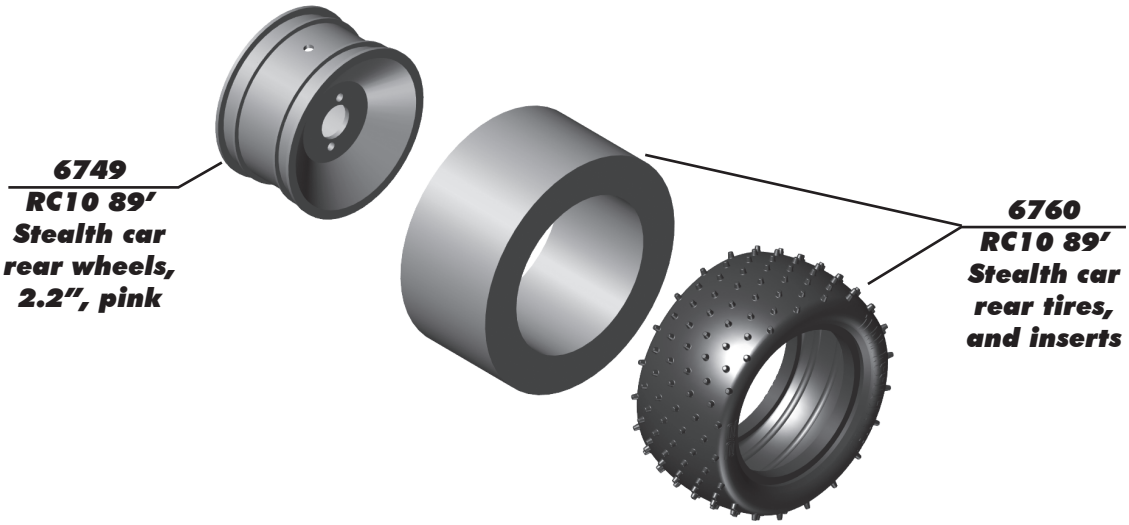


:: Wheels / Tires and Body - Bag H - Step 1



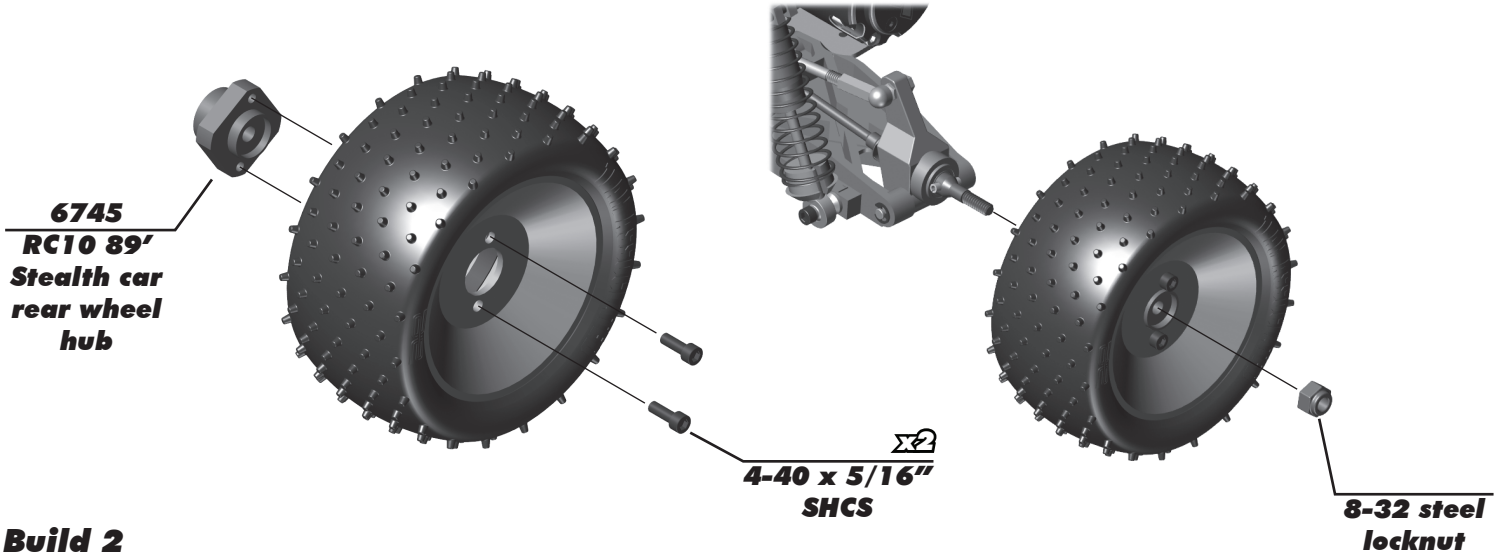
Build 2

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



Build 2

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



Build 2

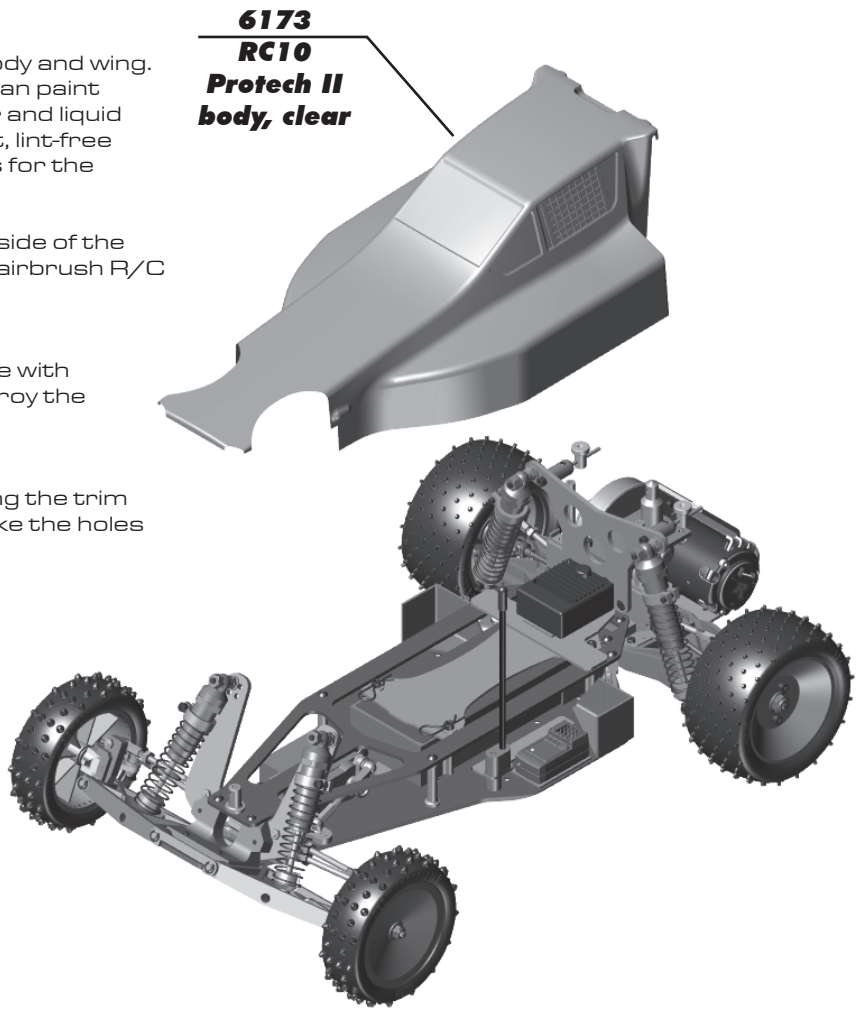
:: Wheels / Tires and Body - Bag H - Step 4

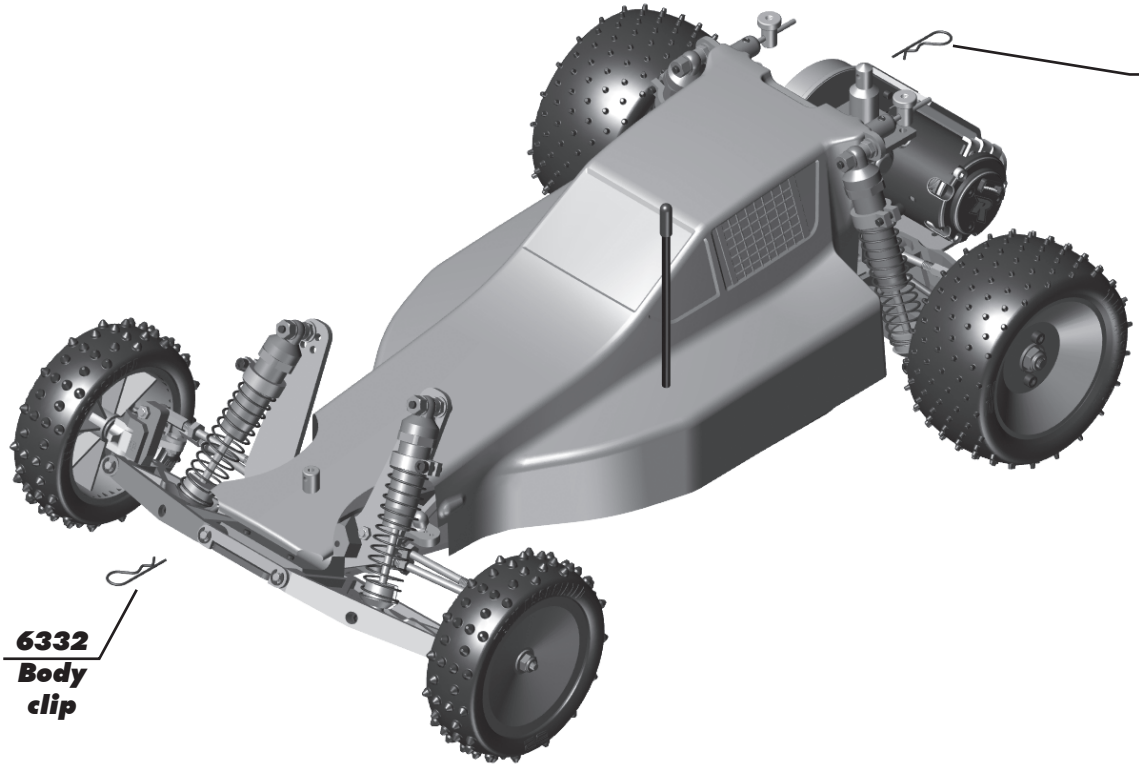
Painting Tips:

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 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.

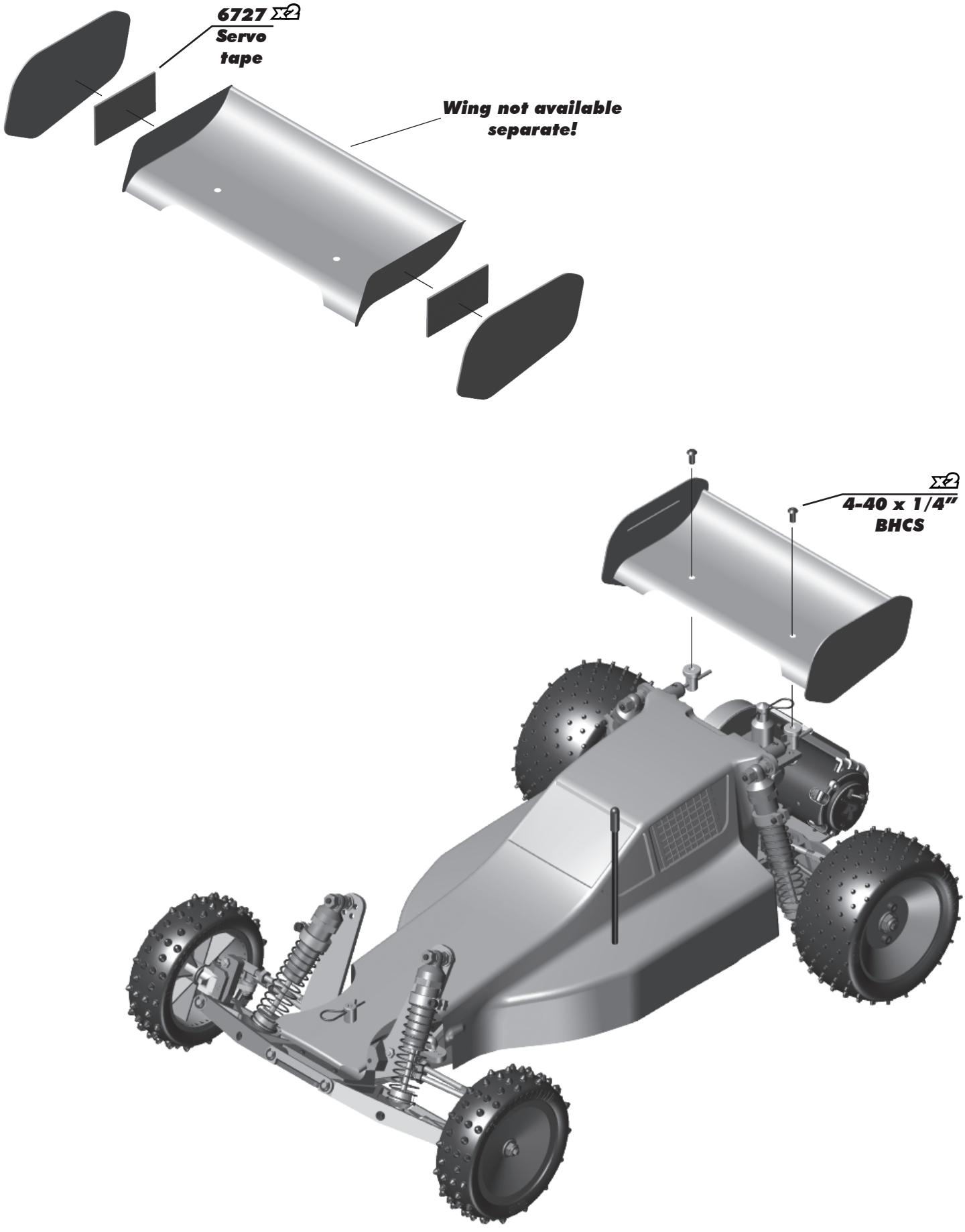
After the paint has dried, cut the body and wing along the trim lines. Make sure to drill or use a body reamer to make the holes for the body mounts, wing mounts, and antenna!





Option
Rear body clip only used if you are not trimming the rear of the body off as pictured.

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



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