

RC10

1991 IFMAR
MASAMI HIROSAKA
★
EDITION

1:10 SCALE ELECTRIC
COMPETITION
OFF-ROAD CAR KIT

1:10 SCALE ELECTRIC COMPETITION OFF-ROAD CAR KIT INSTRUCTION MANUAL



14 IFMAR WORLD
CHAMPIONSHIP TITLES

Masami Hirotsuka

1991 IFMAR Off Road 2WD World Champion

WORLD CHAMPIONS.



TEAM ASSOCIATED



Masami's actual Stealth Car he raced in 1991 pictured here. Production car may vary slightly.

:: 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

- CNC machined aluminum chassis
- Laser etched chassis logo
- Carbon fiber top plate
- Hard anodized shock bodies
- Black anodized shock caps
- Ball bearings
- 91' Stealth® car front bulkhead
- 91' Stealth® car rear arm mounts
- Stealth® car wide front suspension arms
- CNC chassis standoffs
- Stealth® transmission
- Titanium turnbuckles
- 91' Stealth® car world championship replica tires
- 91' Stealth® car rear suspension arms
- Adjustable battery mounts (shorty or standard)
- 91' Stealth® car rear wheel adaptors
- 91' Stealth® car style wing mount system
- 91' Stealth® car rear bulkhead
- Includes #6182 high downforce wing, 5.5"
- 91' Masami world championship livery decal sheet
- Replica Masami battery strap and ESC mount
- 91' Stealth® car long stroke copper shock springs
- Rear Dogbones included
- 91 Stealth car pink wheel dot decals (rear wheels are black)
- 91 Stealth car clear lexan under tray
- 91 Stealth car front bumper
- 91 Stealth car silver motor bracket
- 91 Stealth car legendary front shock tower geometry
- Includes #6121 Viper clear body

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

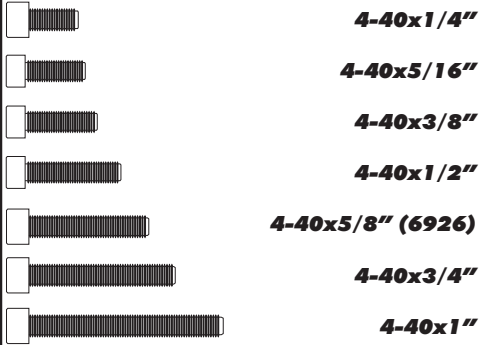
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630



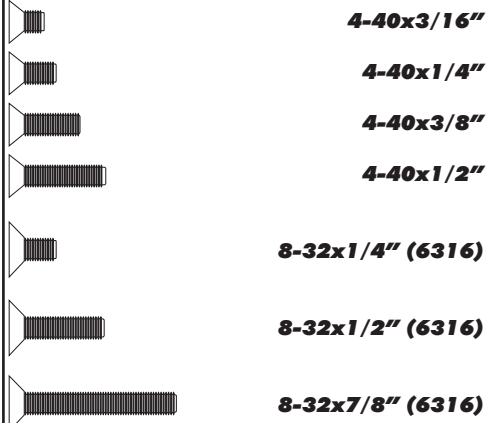
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

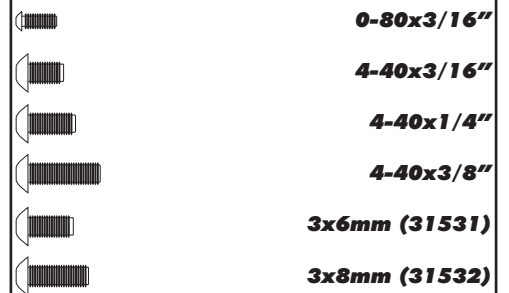
Cap Head (shcs)



Flat Head (fhcs)



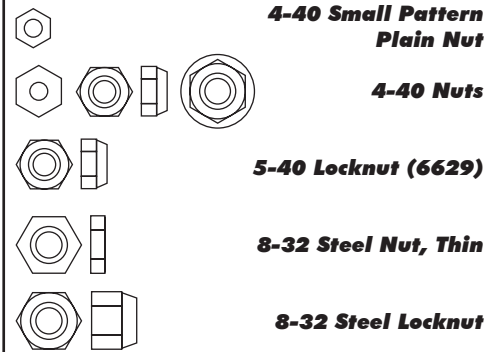
Button Head (bhcs)



Shims and Washers



Nuts (lock/plain)



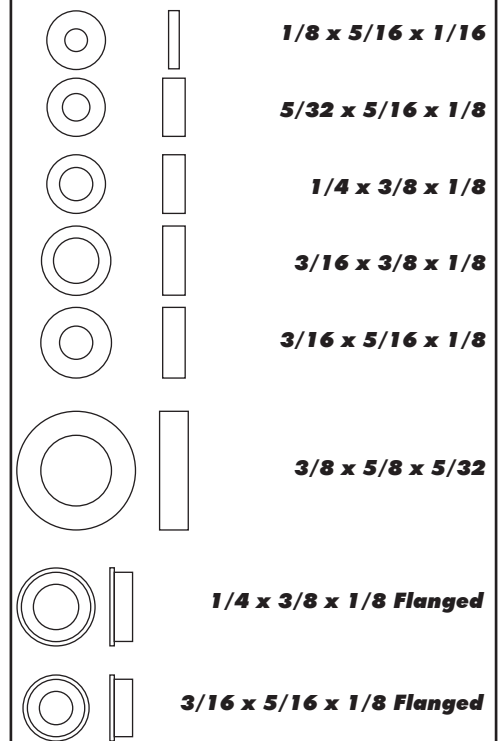
Set Screws



Clips



Bearings



Diff Balls



Notes:

:: Table of Contents

1..... Cover	11..... Turnbuckle Build (Bag E)
2..... Introduction	13..... Shocks Build (Bag F)
3..... 1:1 Hardware "Fold Out"	15..... Top Plate - Electronics Build (Bag G)
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5..... Servo Saver Build (Bag A)	19..... Wheels, Tires and Body Install (Bag H)
5..... Front Arm / Steering Build (Bag B)	21..... Notes
7..... Transmission Build (Bag C)	22..... Back Cover
9..... Rear Bulkhead Build (Bag D)	

:: Notes



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



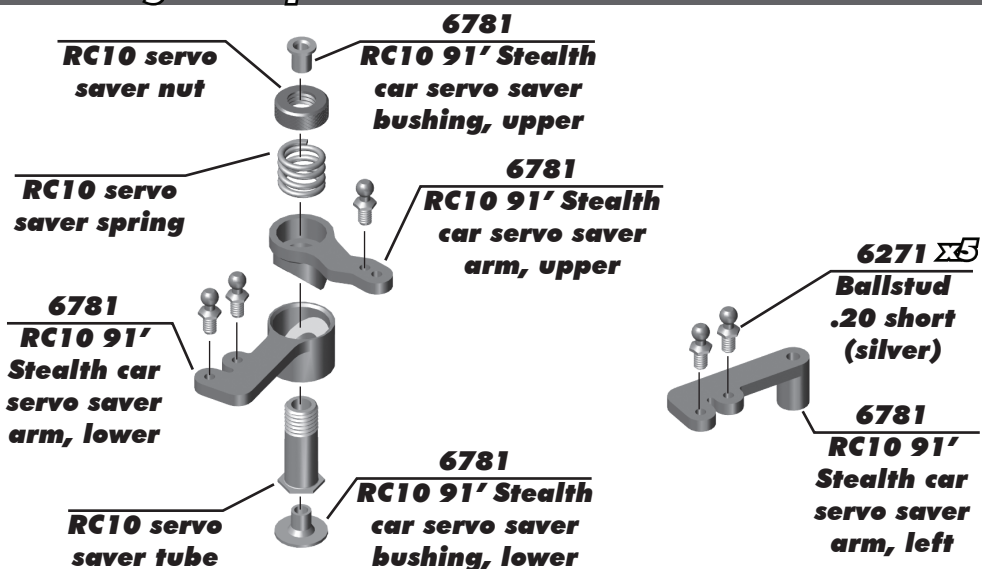
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size.

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

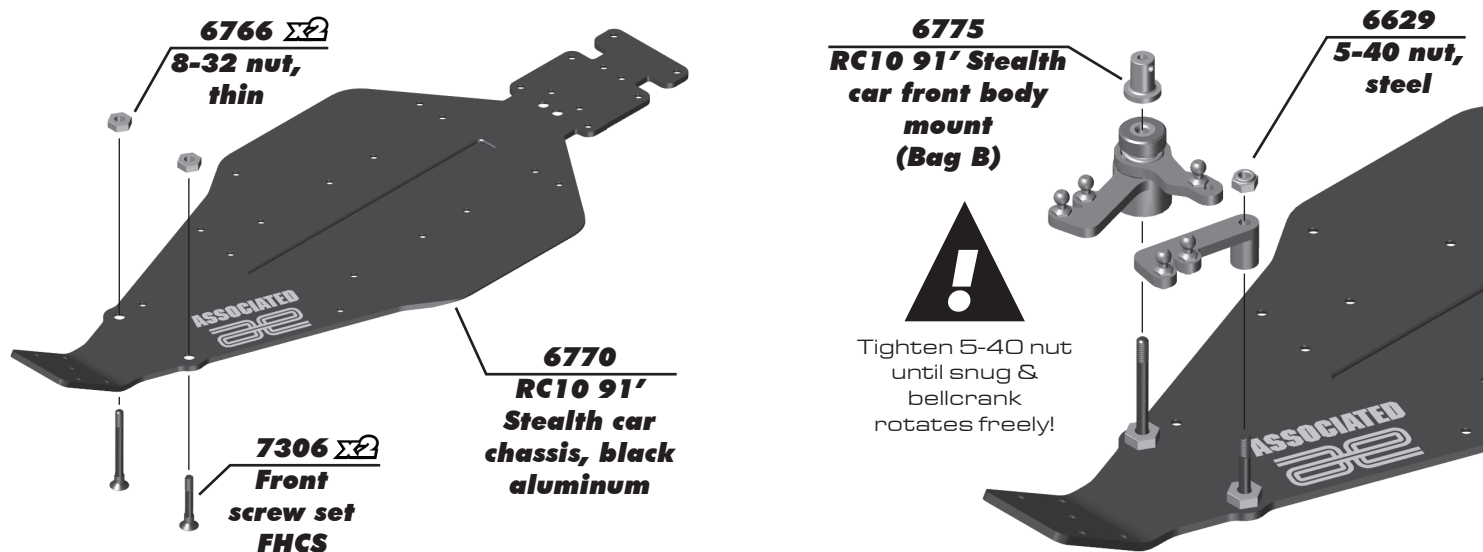


Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

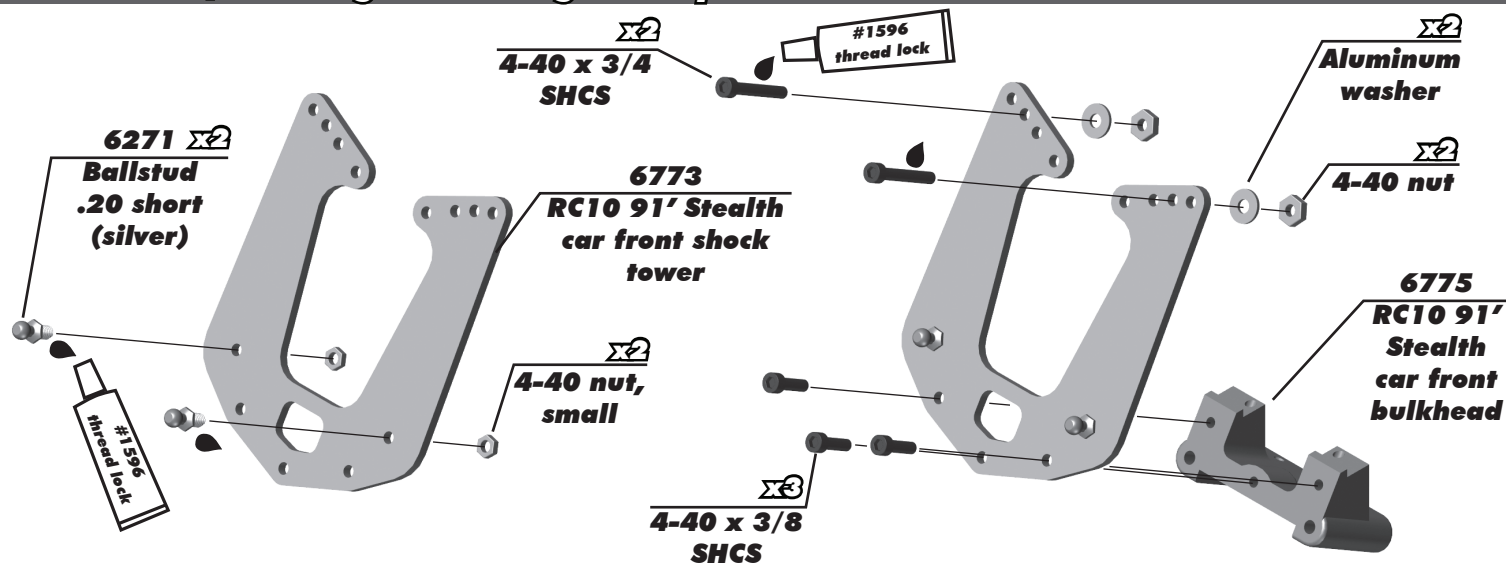
:: Servo Saver Build - Bag A - Step 1



:: Servo Saver Build - Bag A/B - Step 2

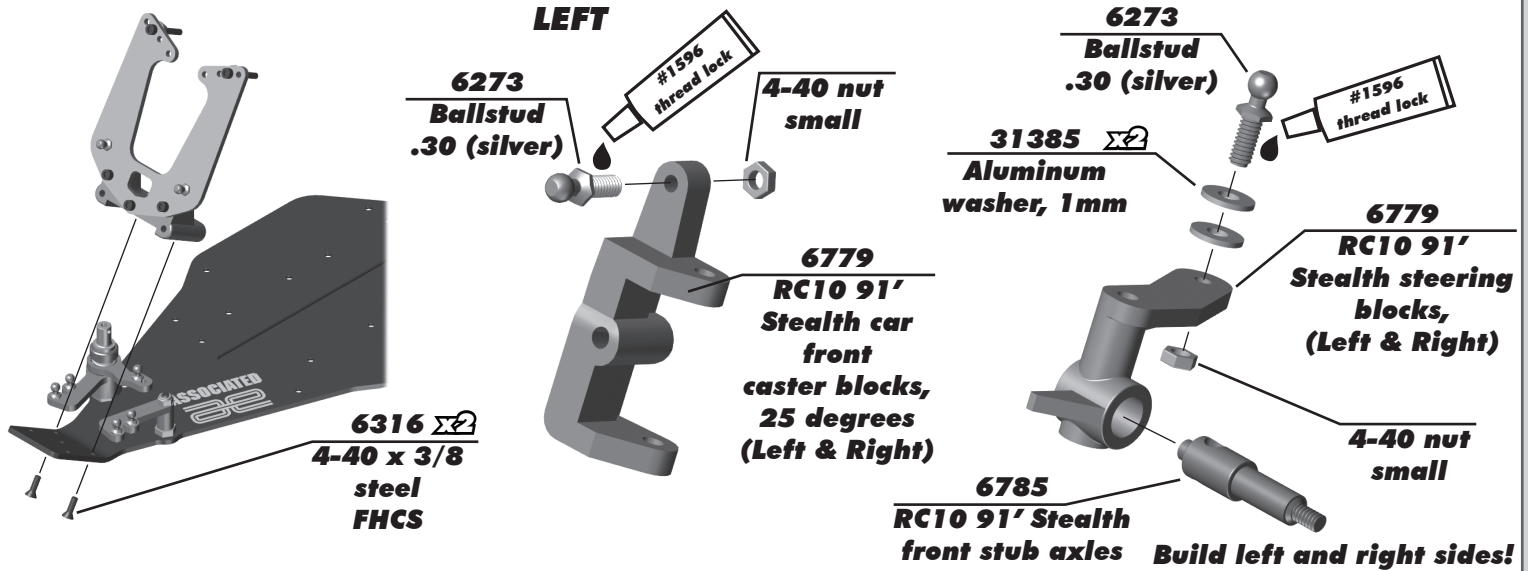


:: Front Arm / Steering Build - Bag B - Step 1

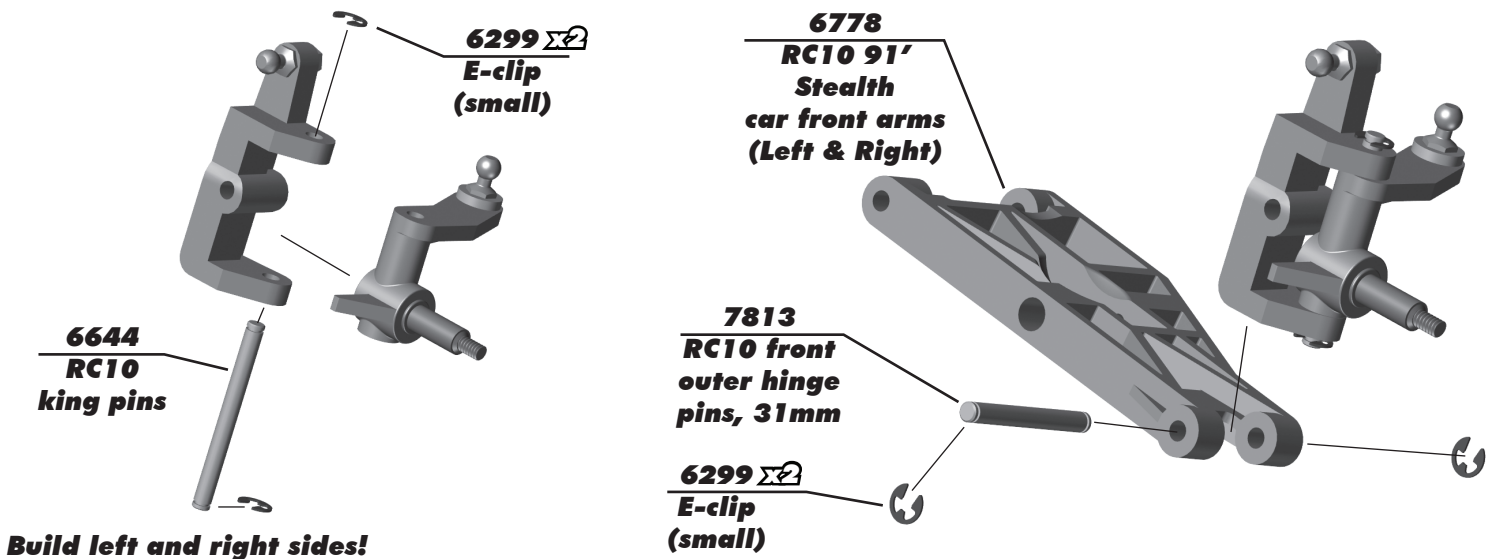


:: Front Arm / Steering Build - Bag B - Step 2

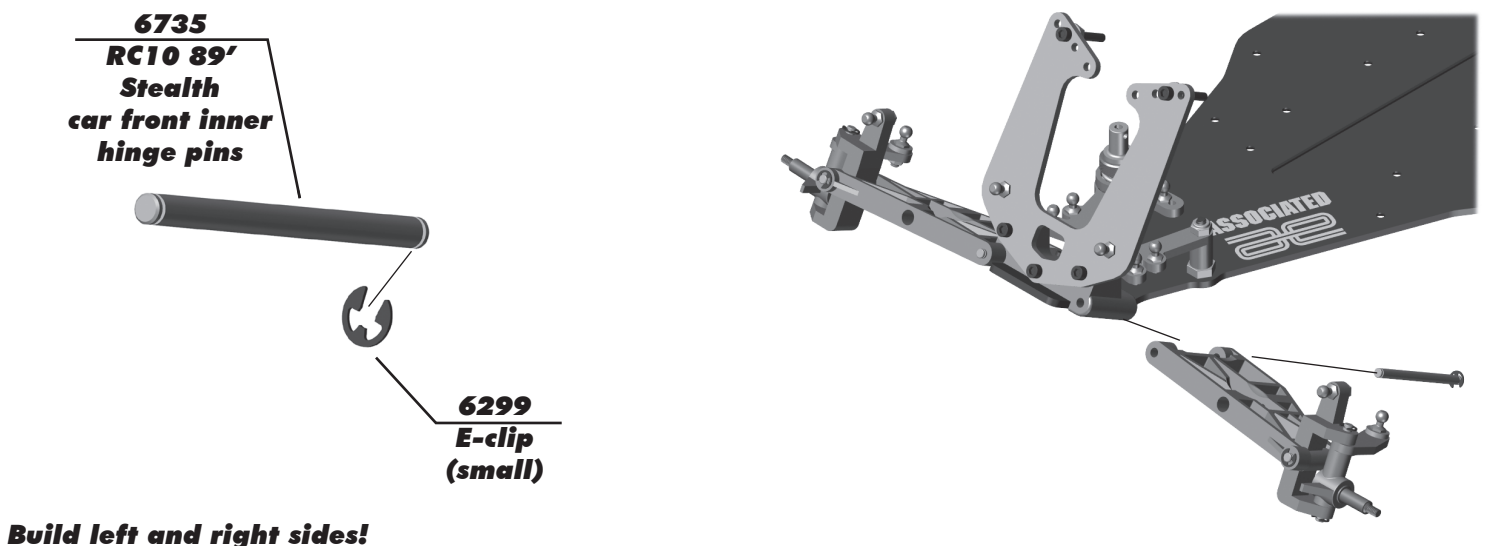
LEFT



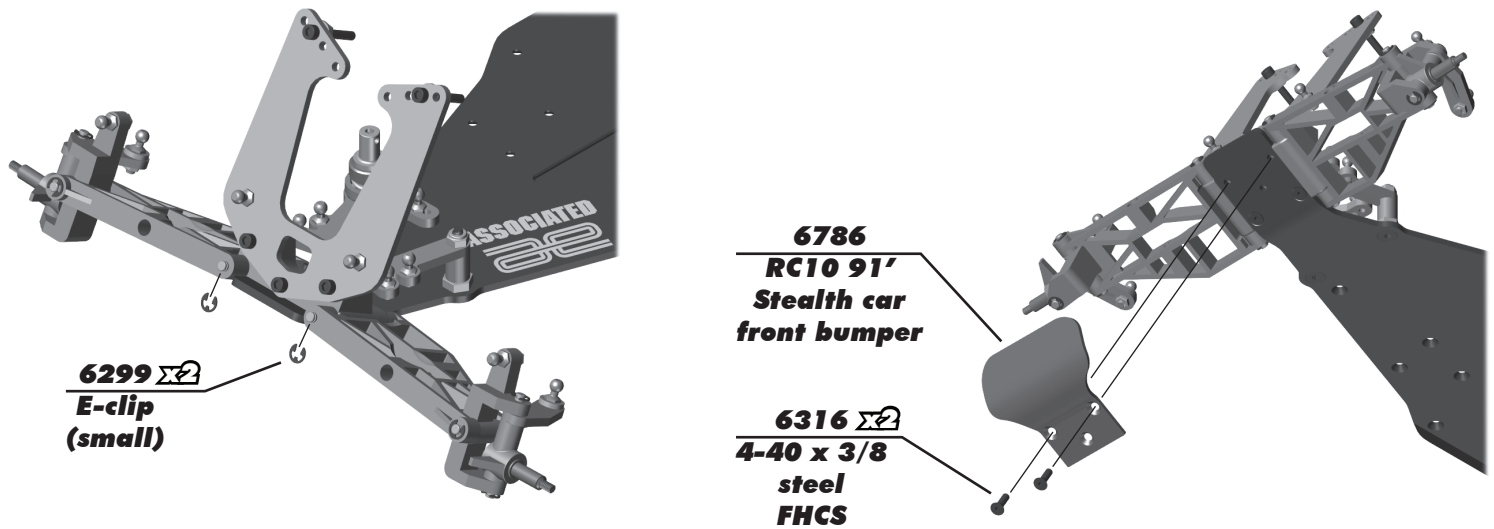
:: Front Arm / Steering Build - Bag B - Step 3



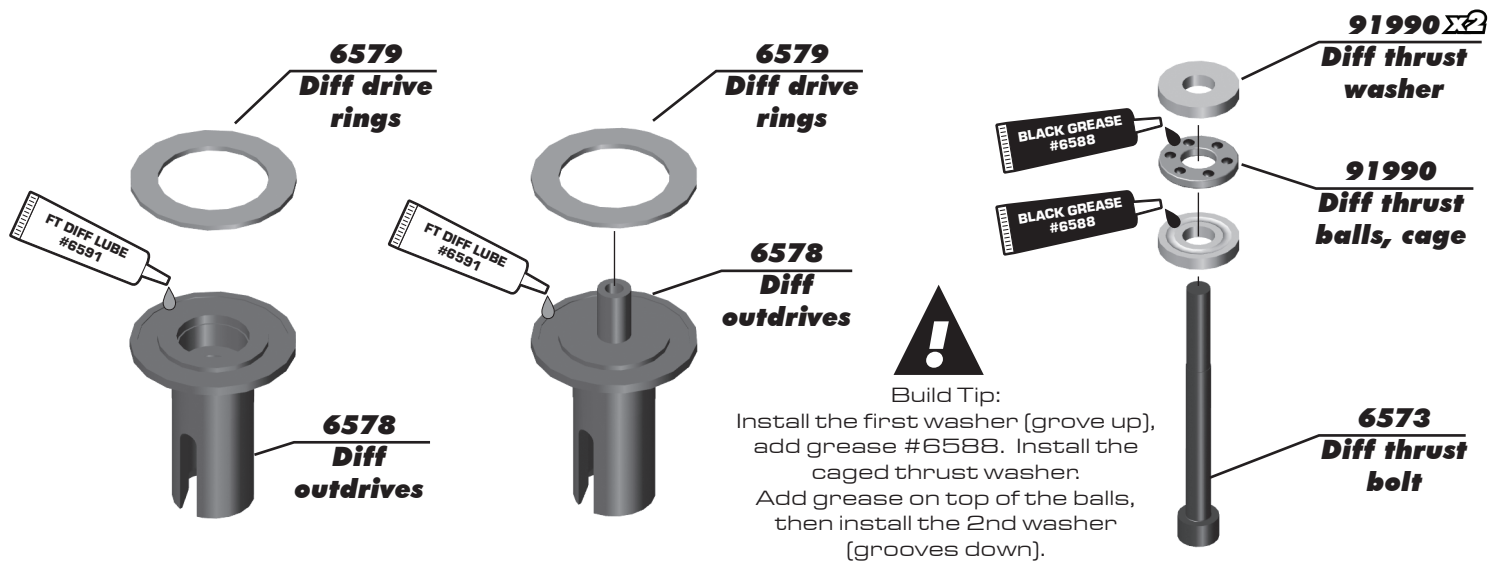
:: Front Arm / Steering Build - Bag B - Step 4



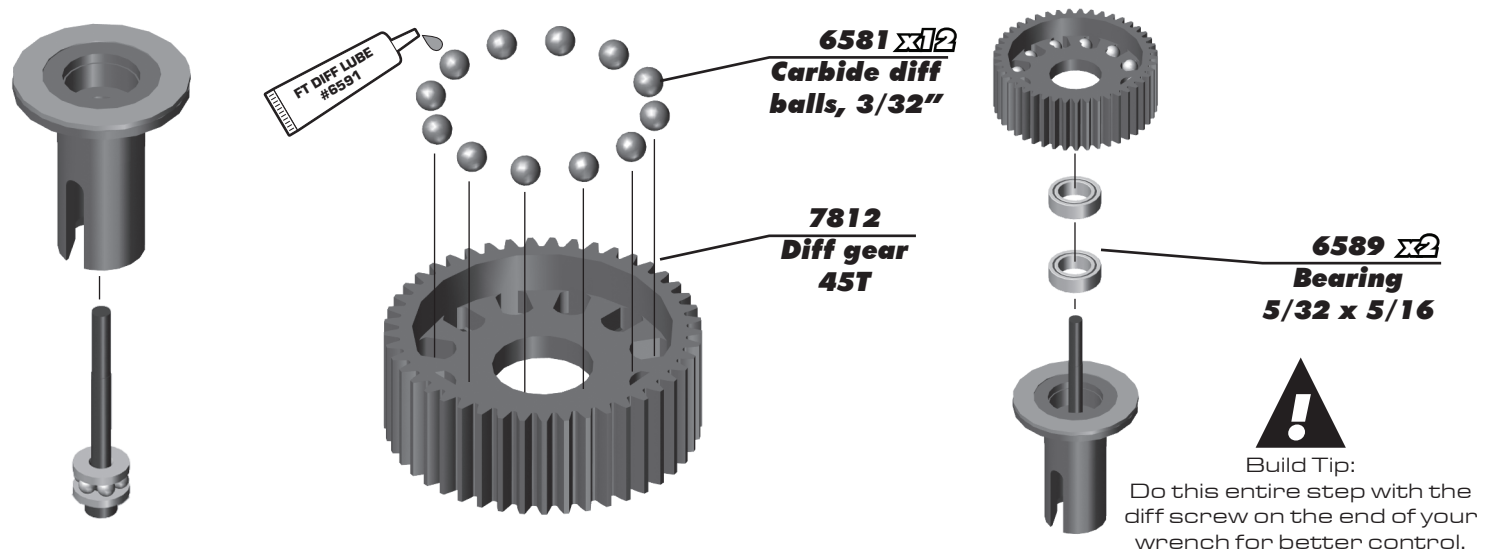
:: Front Arm / Steering Build - Bag B - Step 5



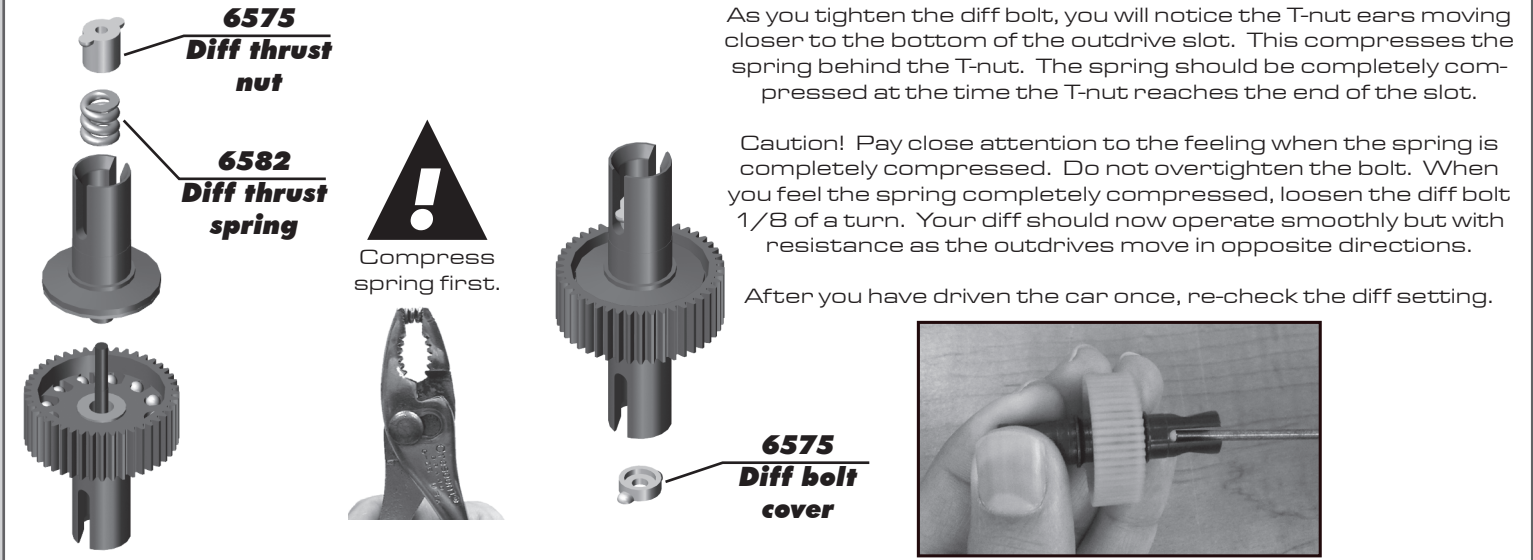
:: Transmission Build - Bag C - Step 1



:: Transmission Build - Bag C - Step 2



:: Transmission Build - Bag C - Step 3



6575
Diff thrust nut

6582
Diff thrust spring

6575
Diff bolt cover

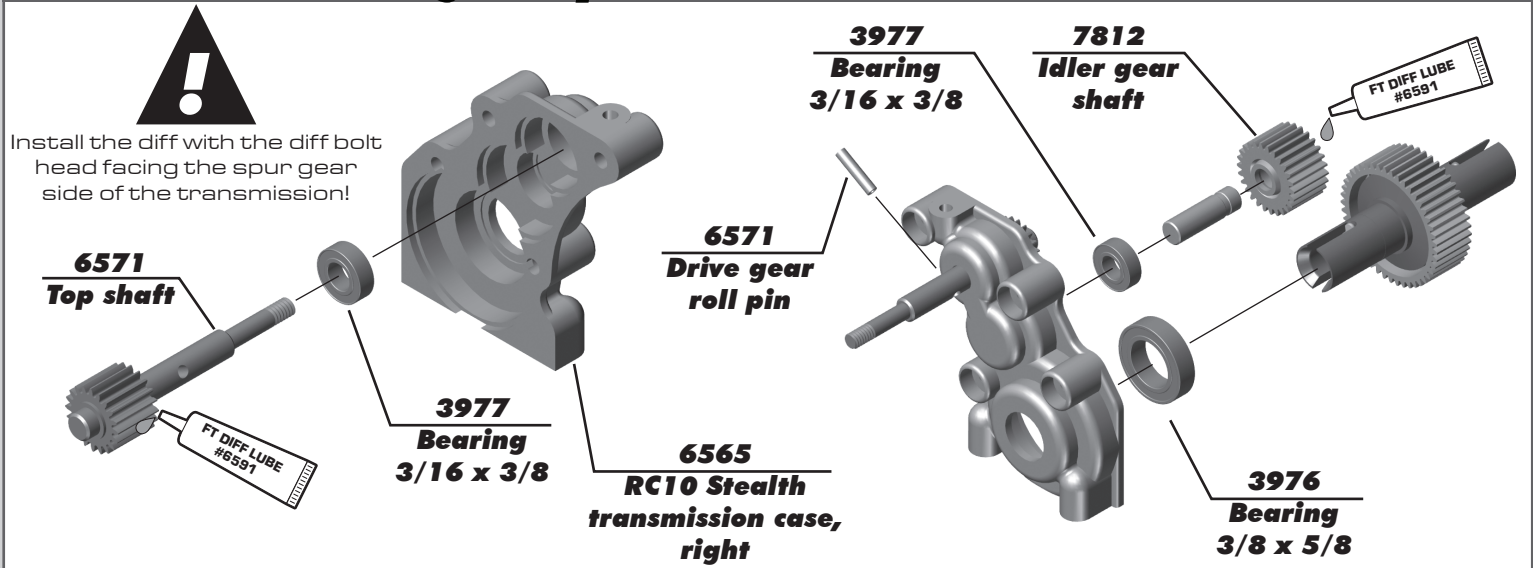
Compress spring first.

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



6571
Top shaft

3977
Bearing 3/16 x 3/8

6571
Drive gear roll pin

6565
RC10 Stealth transmission case, right

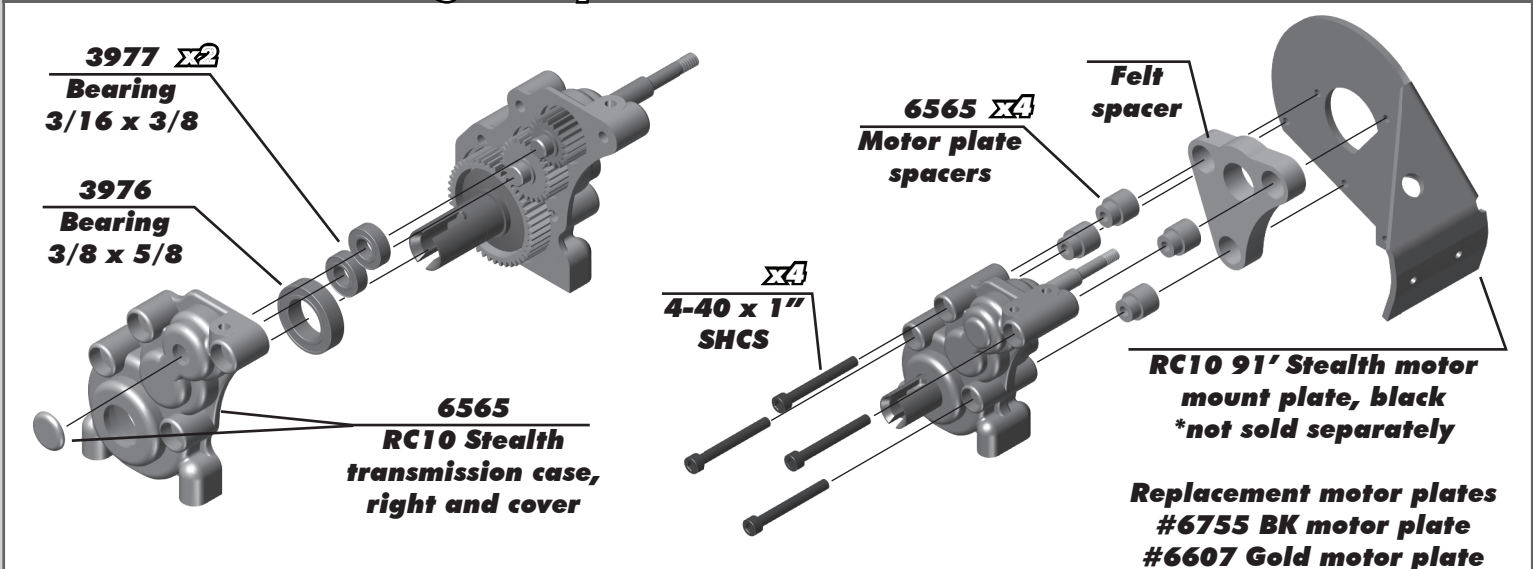
7812
Idler gear shaft

3976
Bearing 3/8 x 5/8

FT DIFF LUBE #6591

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

:: Transmission Build - Bag C - Step 5



3977 X2
Bearing 3/16 x 3/8

3976
Bearing 3/8 x 5/8

6565
RC10 Stealth transmission case, right and cover

6565 X4
Motor plate spacers

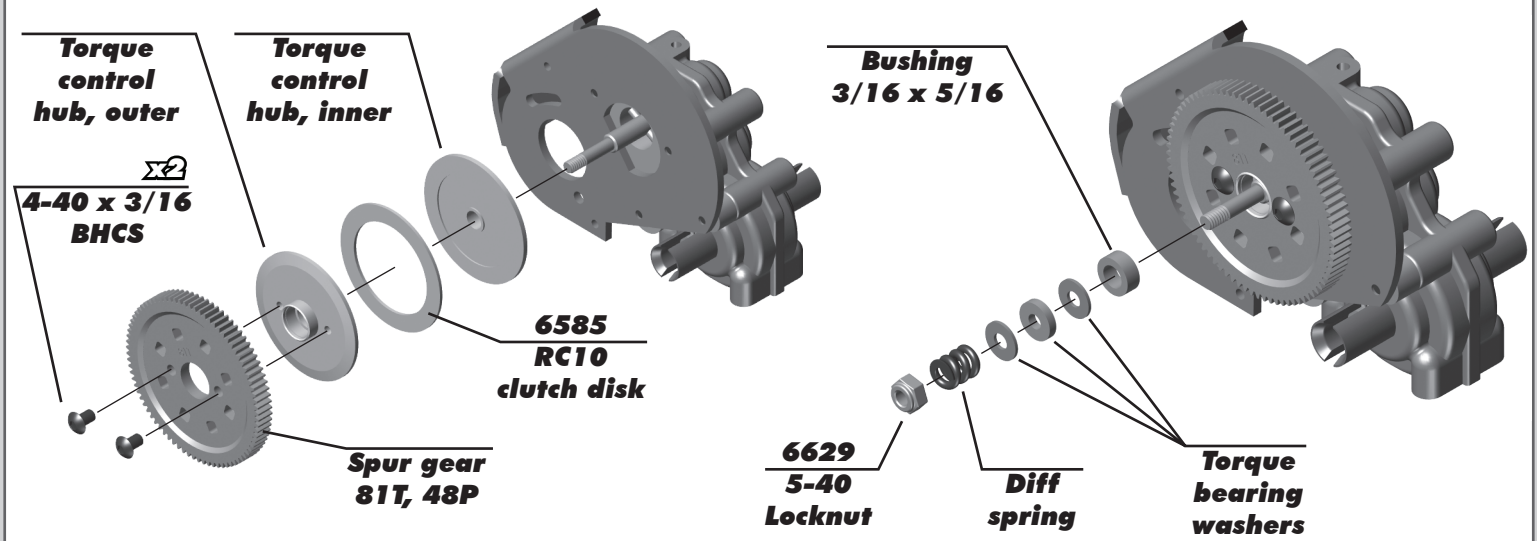
Felt spacer

4-40 x 1" SHCS

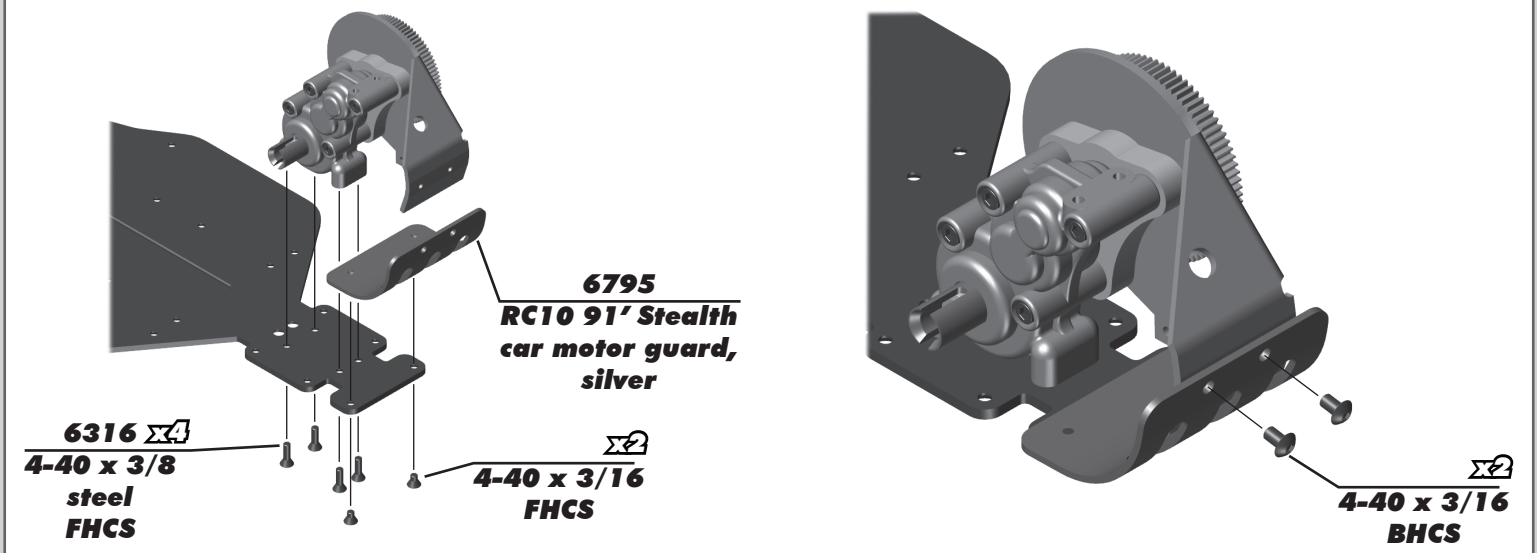
RC10 91' Stealth motor mount plate, black *not sold separately

Replacement motor plates
#6755 BK motor plate
#6607 Gold motor plate

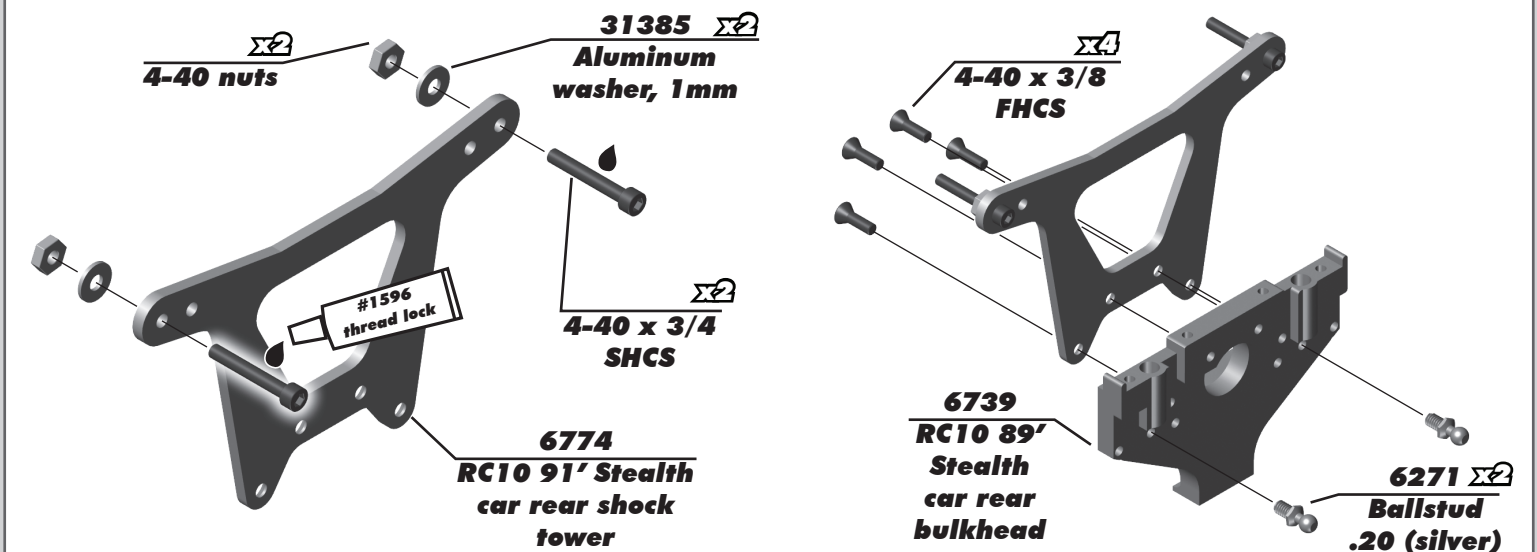
:: Transmission Build - Bag C - Step 6



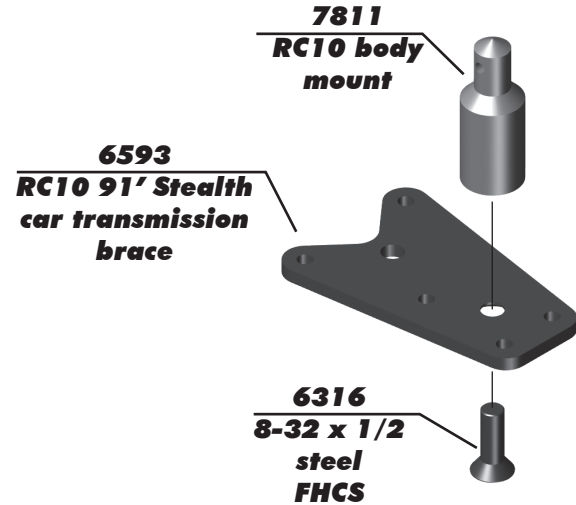
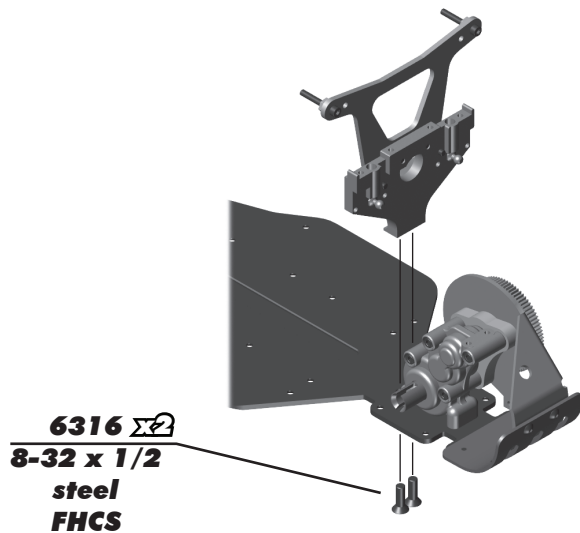
:: Transmission Build - Bag C - Step 7



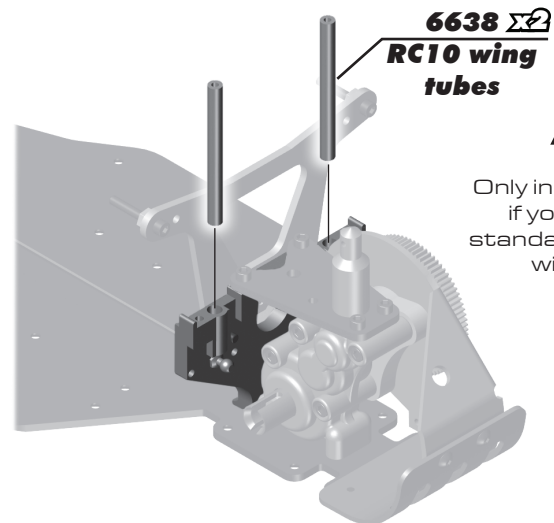
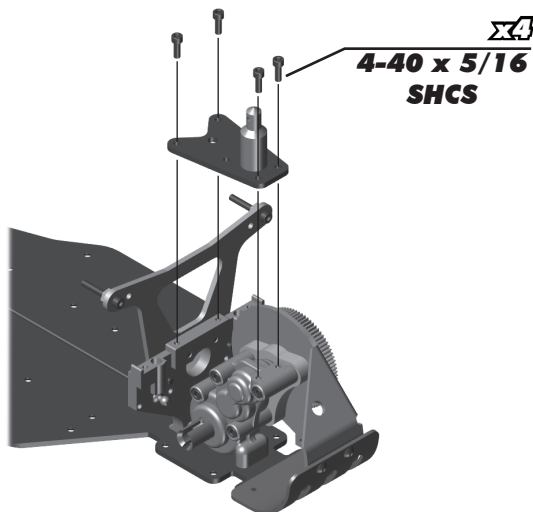
:: Rear Bulkhead Build - Bag D - Step 1



:: Rear Bulkhead Build - Bag D - Step 2

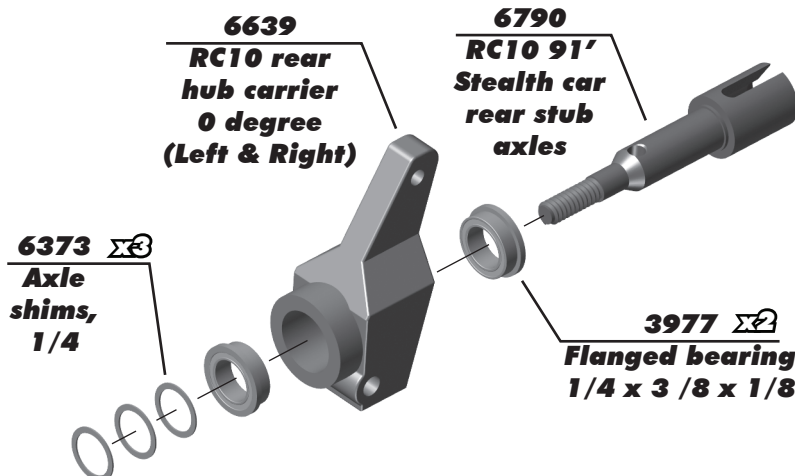


:: Rear Bulkhead Build - Bag D - Step 3

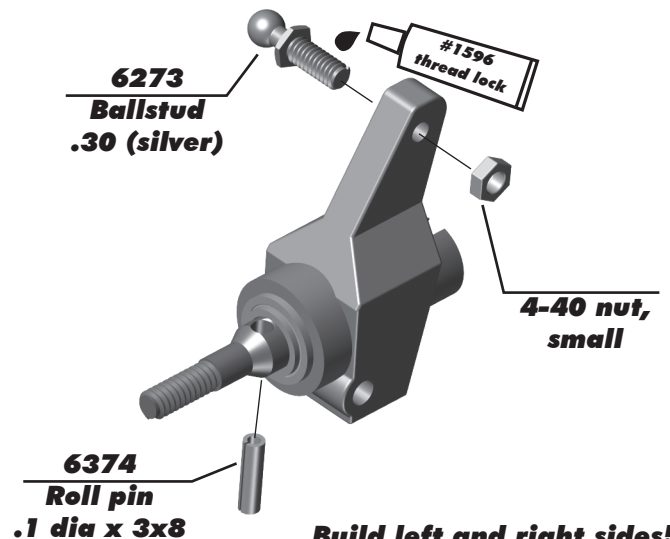


Optional
Only install wing tubes
if you plan to use
standard #6648 wing
wire mounts

:: Rear Bulkhead Build - Bag D - Step 4

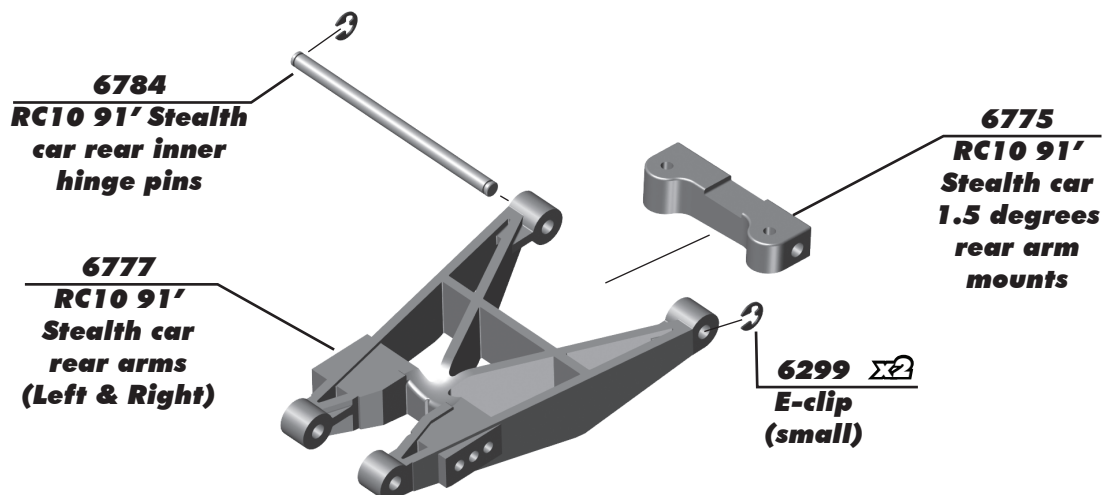


Build left and right sides!



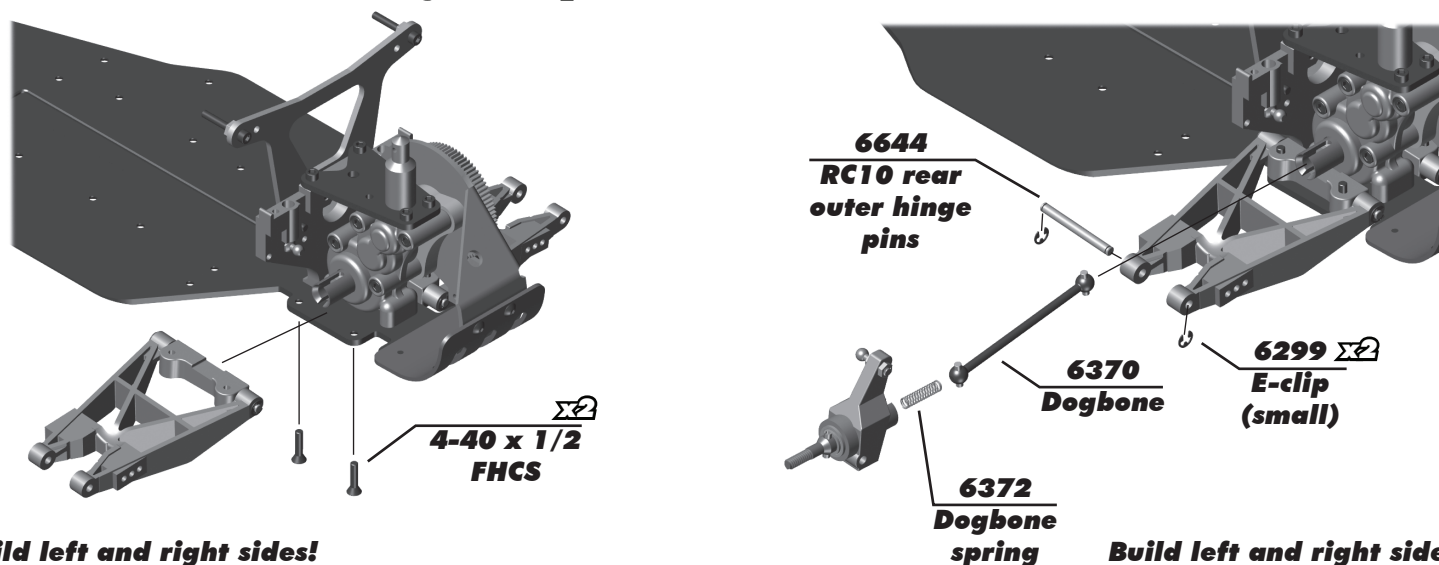
Build left and right sides!

:: Rear Bulkhead Build - Bag D - Step 5



Build left and right sides!

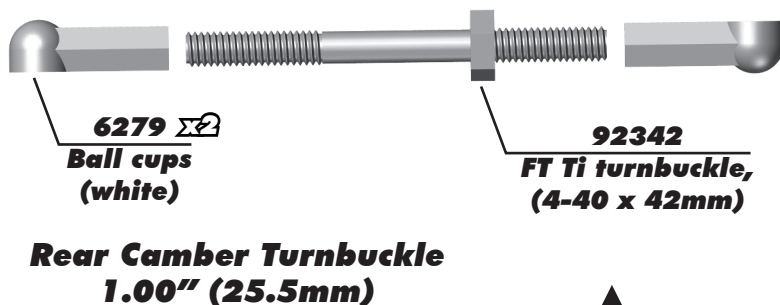
:: Rear Bulkhead Build - Bag D - Step 6



Build left and right sides!

Build left and right sides!

:: Turnbuckles Build - Bag E - Step 1

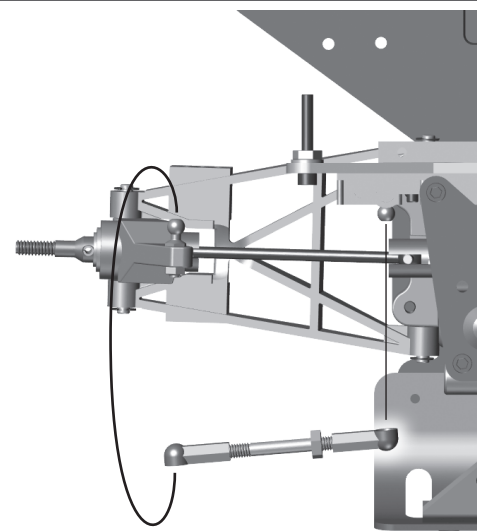


Recommended turnbuckle lengths are approximate. Final recommended settings = 0 degree Front Toe in and -2 Degree Camber Front and Rear.

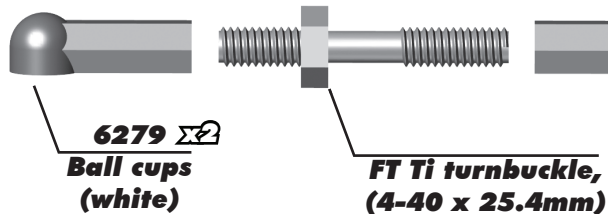
Build left and right sides!



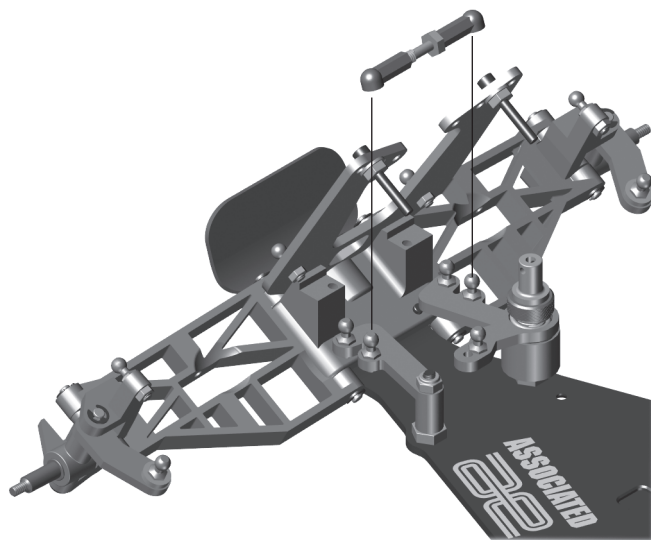
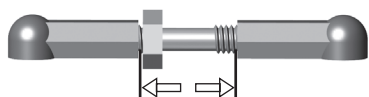
The adjustment nut on the end of the turnbuckles notes the side with the right hand threads. Masami mounted the nuts towards the outside of the vehicle for ease of adjustment.



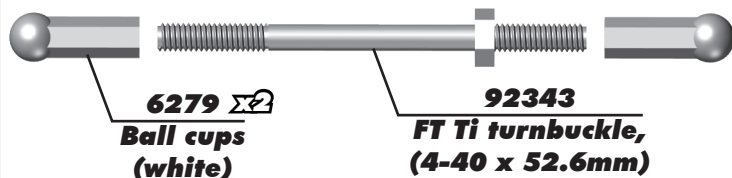
:: Turnbuckles Build - Bag E - Step 2



Steering Rack Turnbuckle
0.51" (13mm)



:: Turnbuckles Build - Bag E - Step 3



Front Camber Turnbuckle
1.42" (36mm)

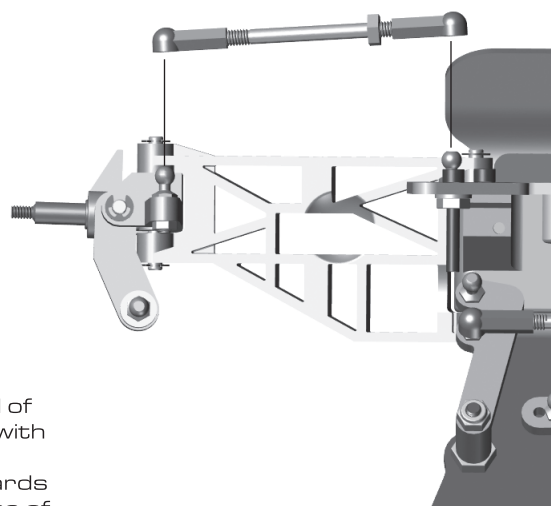


Recommended turnbuckle lengths are approximate. Final recommended settings = 0 degree Front Toe in and -2 Degree Camber Front and Rear.

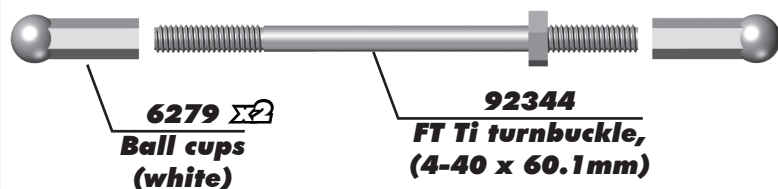
Build left and right sides!



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
1.83" (46.5mm)

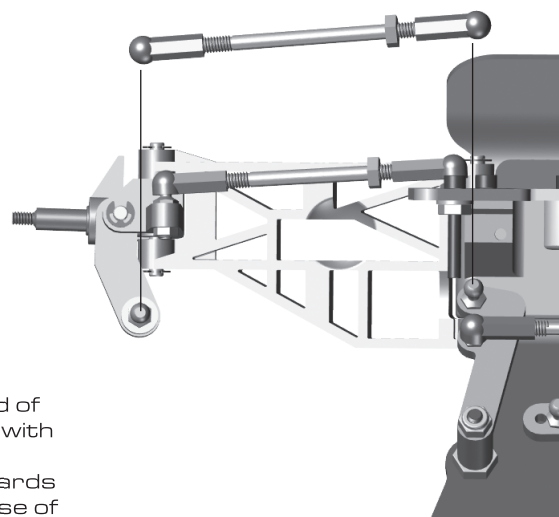


Recommended turnbuckle lengths are approximate. Final recommended settings = 0 degree Front Toe in and -2 Degree Camber Front and Rear.

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



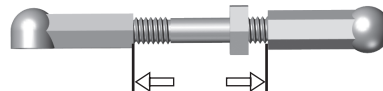
Set aside until you are installing the servo!



6279 $\Sigma 2$
Ball cups
(white)

FT Ti turnbuckle,
(4-40 x 33mm)

Servo Turnbuckle
0.70" (18mm)

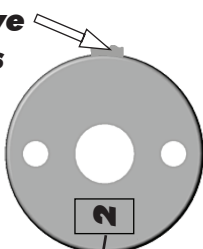


The adjustment nut on the end of the turnbuckles notes the side with the right hand threads. Masami mounted the nuts towards the outside of the vehicle for ease of adjustment.

:: 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)

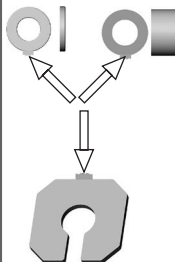


Build two front and two rear!

:: Shocks Build - Bag F - Step 2

5407 $\Sigma 2$
Red o-ring

Remove spurs



Shock assembly tool

Front Shock

6436
FT Hard Anodized shock body, front (1.02)



6420/6462 $\Sigma 2$
Off-road shock rebuild kit



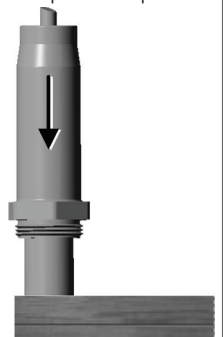
6435
FT Hard Anodized shock body, rear (1.32)



Rear Shock



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

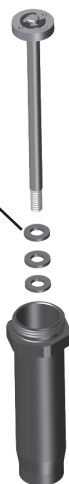


:: Shocks Build - Bag F - Step 3

Front Shock



Rear Shock



6420/6462 Shock downstops

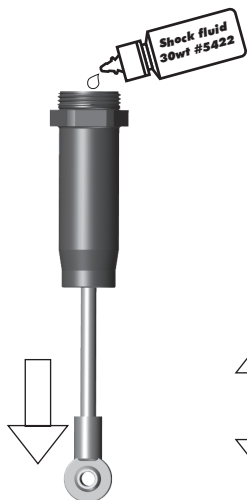
6420/6462 Shock cap o-ring



6420/6462 Shock pivot ball

6279 Shock rod end (use the short rod ends) Build two front and two rear!

:: Shocks Build - Bag F - Step 4



Step 1-3



Step 3-4



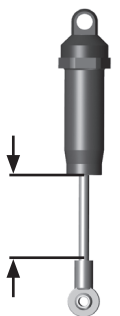
Step 5-6



Step 7

* 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.



Stroke
Front:
28.5mm
Rear:
33mm

:: Shocks Build - Bag F - Step 5

Front Shock



RC10 shock spring collar

6788

Front shock spring, Copper 1.65" length

Rear Shock

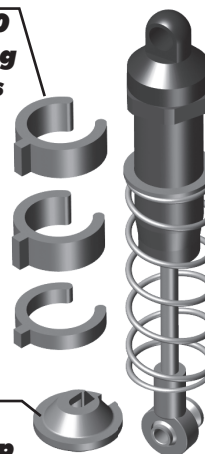


RC10 shock spring collar

6788

Rear shock spring, Copper 2.79" length

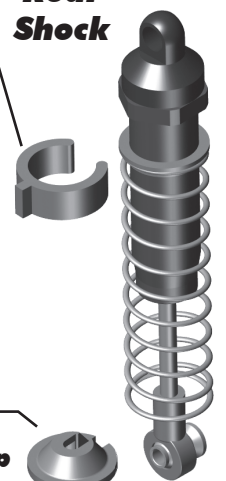
Front Shock



RC10 spring clips

6639 RC10 spring cup

Rear Shock

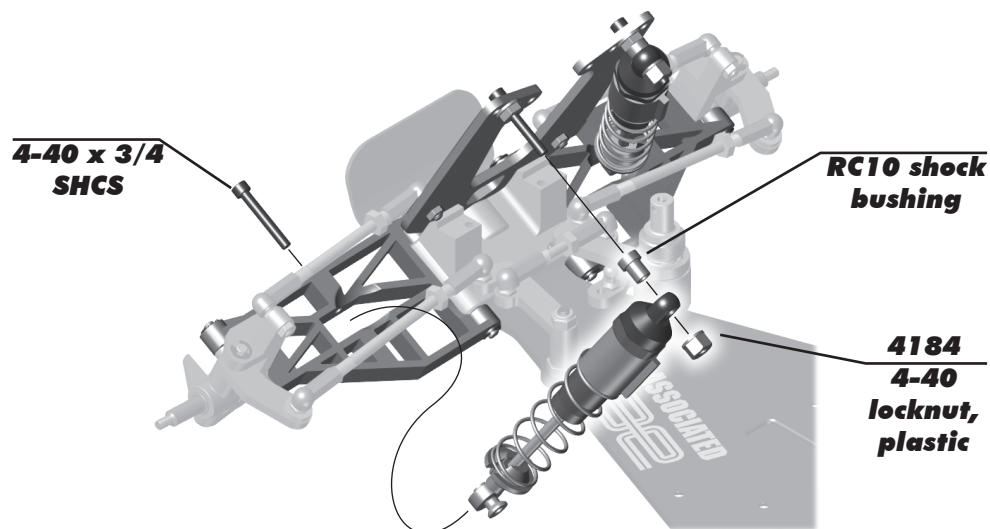


RC10 spring clips

6639 RC10 spring cup

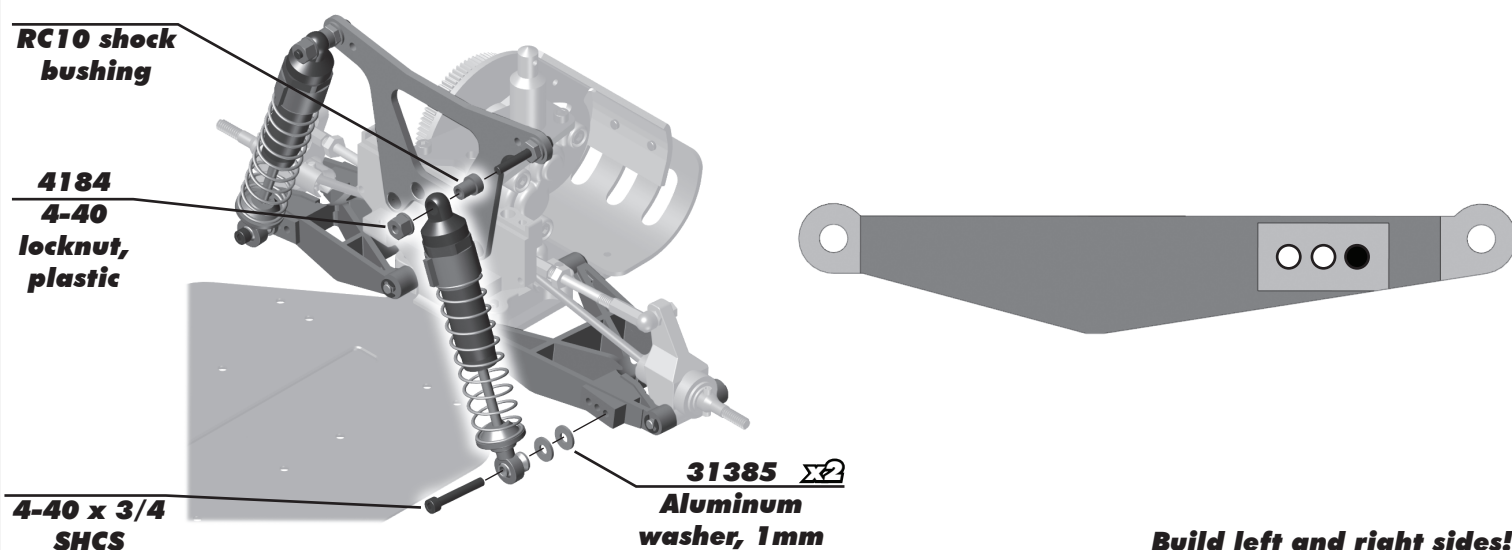
Build two front and two rear!

:: Shocks Build - Bag F - Step 6

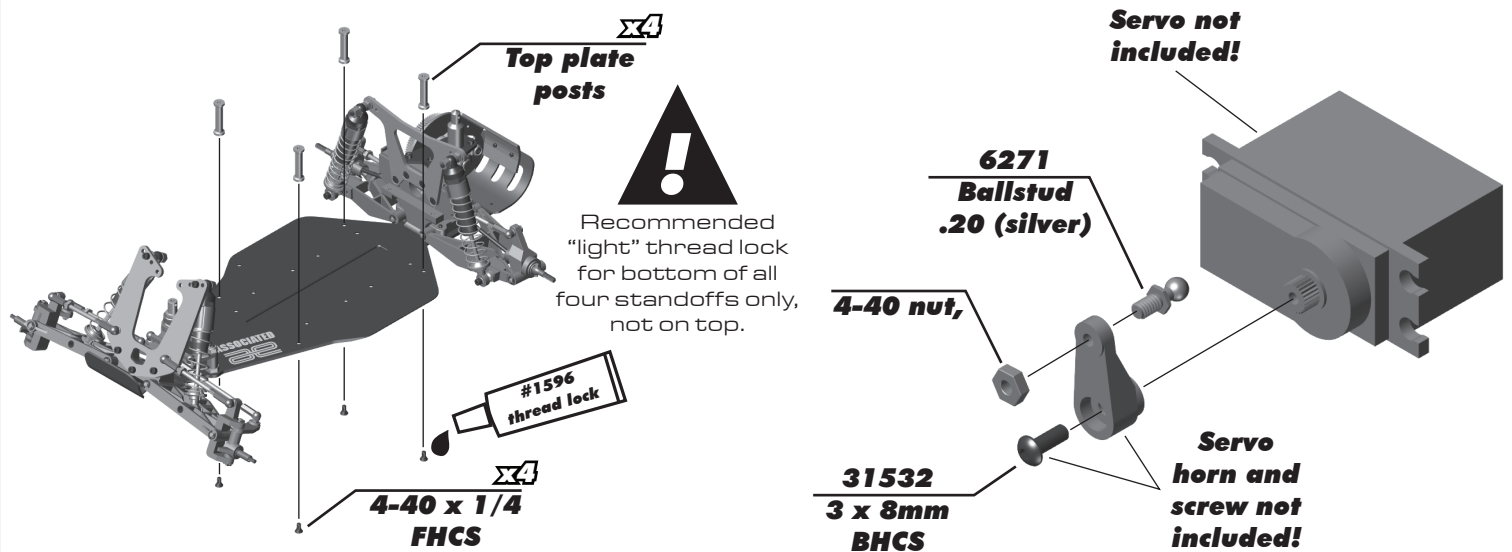


Build left and right sides!

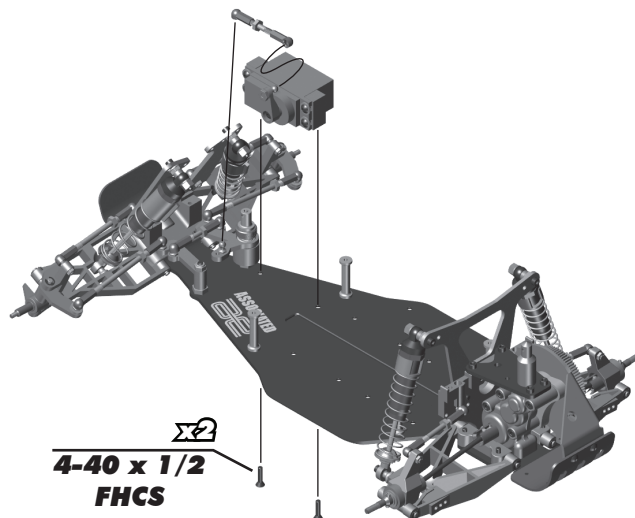
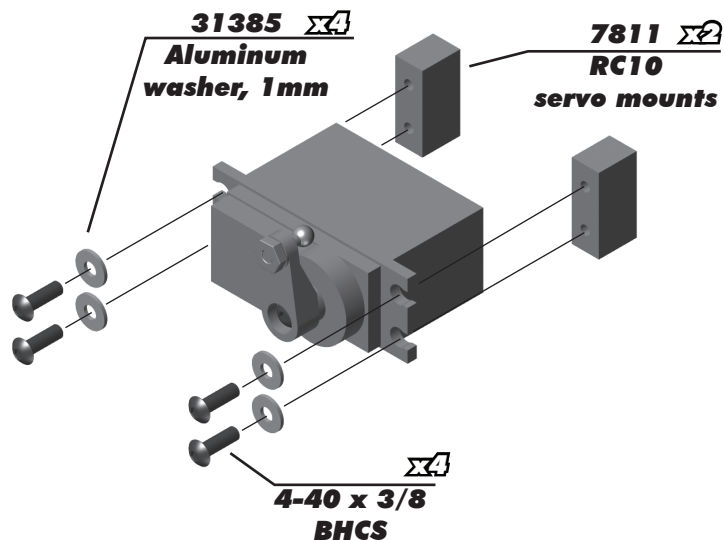
:: Shocks Build - Bag F - Step 7



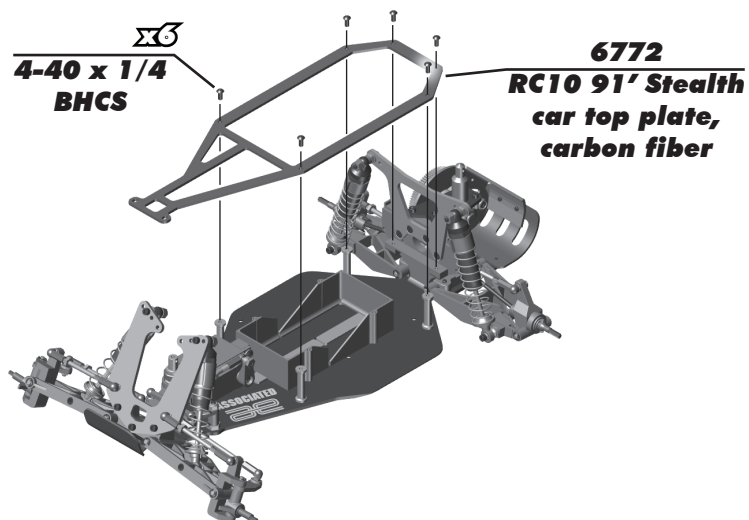
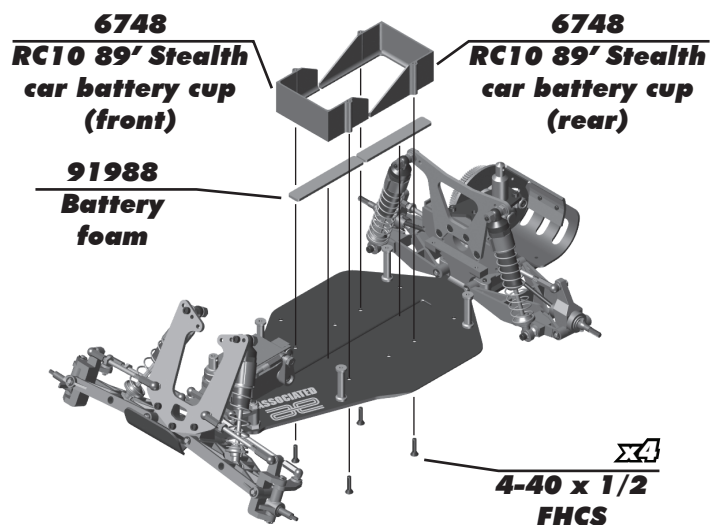
:: Top Plate / Electronics Build - Bag G - Step 1



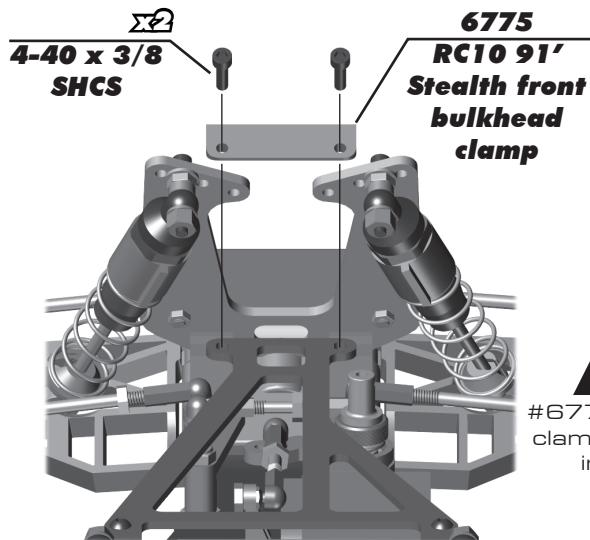
:: Top Plate / Electronics Build - Bag G - Step 2



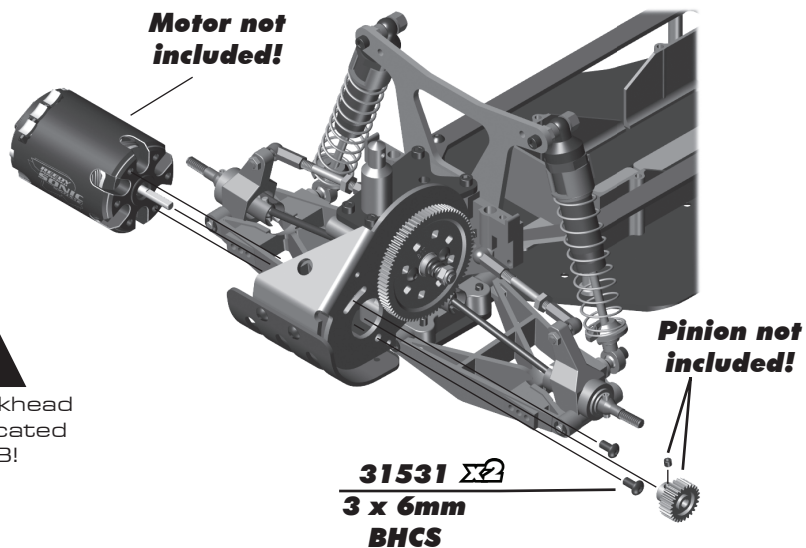
:: Top Plate / Electronics Build - Bag G - Step 3



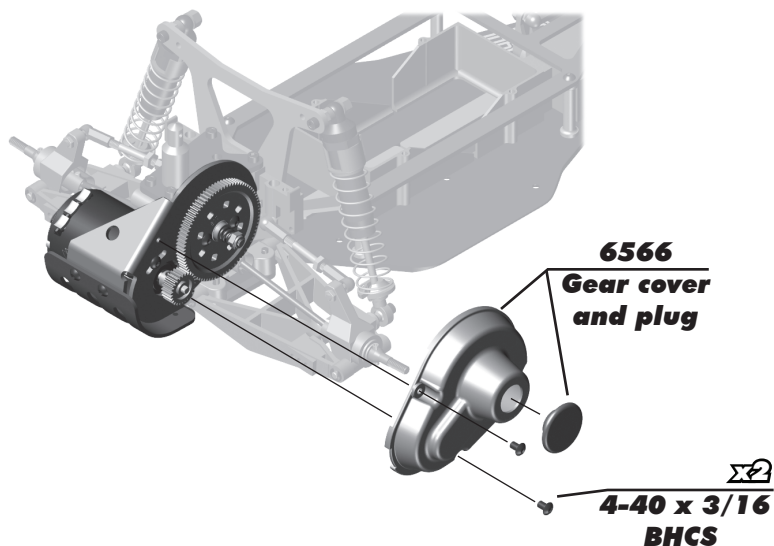
:: Top Plate / Electronics Build - Bag G - Step 4



!
#6775 bulkhead clamp is located in bag B!



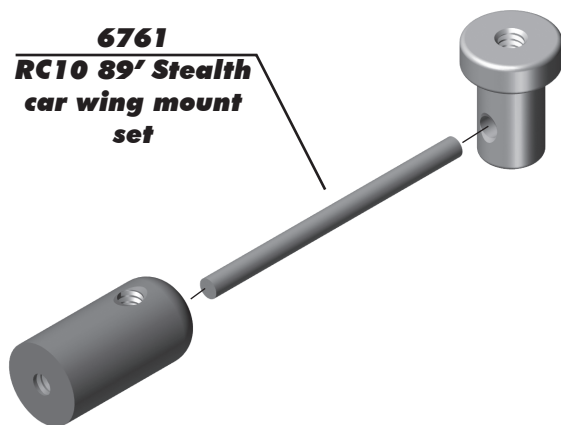
:: Top Plate / Electronics Build - Bag G - Step 5



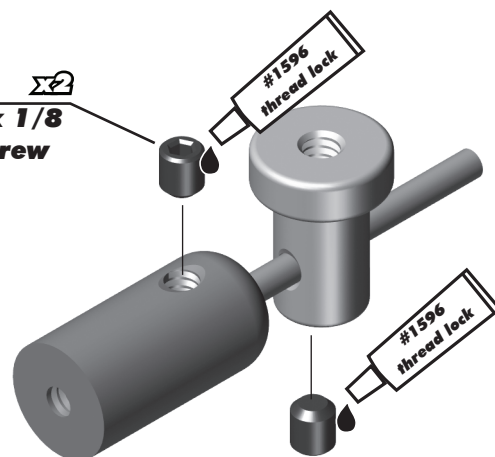
Gear cover, plug, and hardware are located in bag C!

:: Top Plate / Electronics Build - Bag G - Step 6

6761
RC10 89' Stealth
car wing mount
set

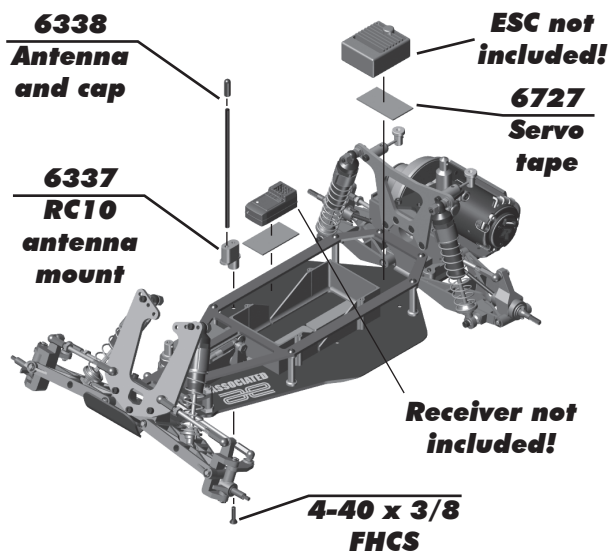
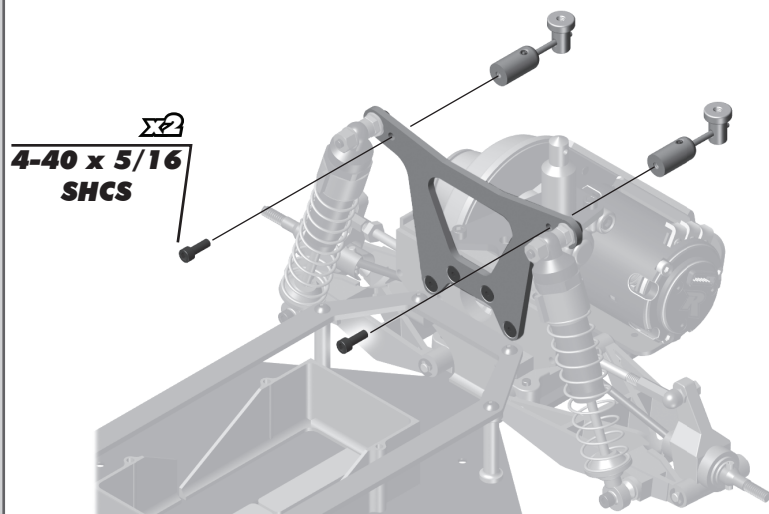


X2
4-40 x 1/8
set screw

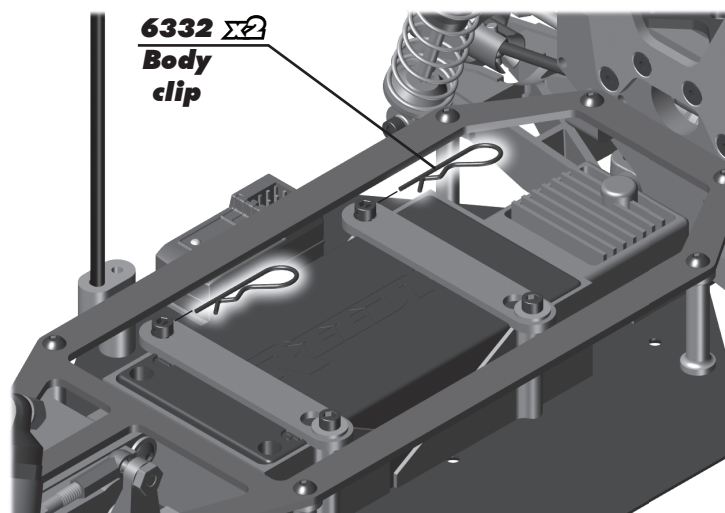
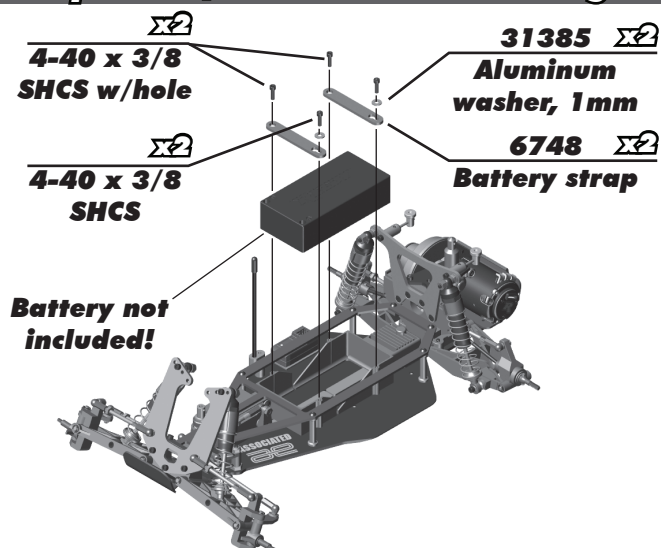


Build 2

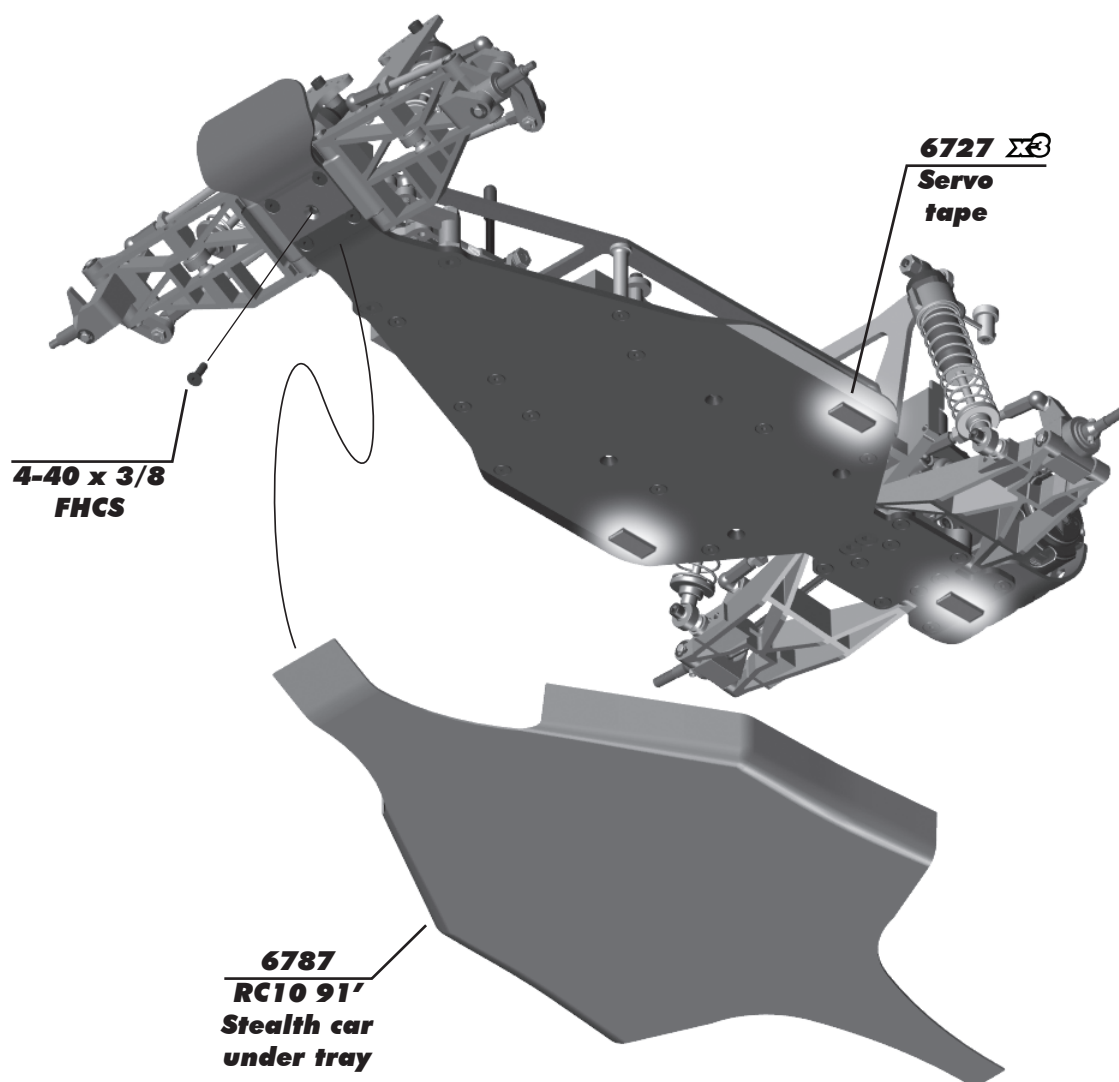
:: Top Plate / Electronics Build - Bag G - Step 7



:: Top Plate / Electronics Build - Bag G - Step 8



:: Under Tray Install - Step 1



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

6791
RC10 91'
Stealth car
front tires

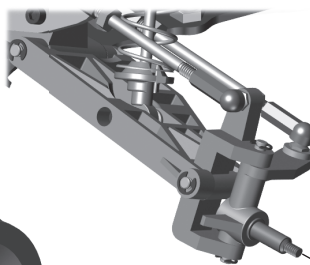


Pro Tip!
Front tires may fit tight
on the front wheels.
Use a drop of water to
lubricate the tire bead
during installation.

6852
Front wheels,
1 Piece



6902 
Flanged Bearing
3/16 x 5/16 x 1/8



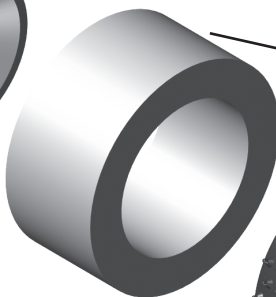
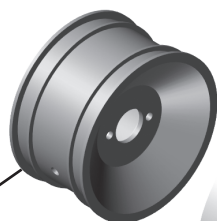
5-40
locknut

Build 2

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

RC10 91' Stealth car
wheels, 2.2", black
***not sold separately**

Replacement rear wheels
#6749 89' rear wheels,
2.2", pink



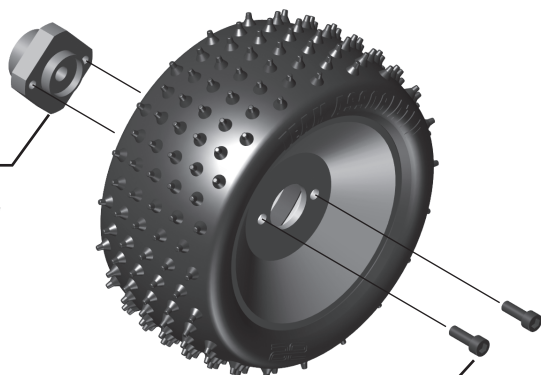
6792
RC10 91'
Stealth car
rear tires,
and inserts



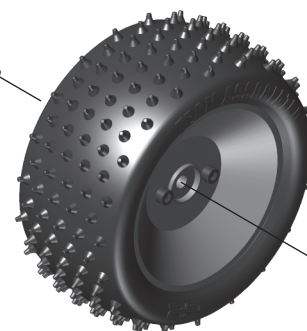
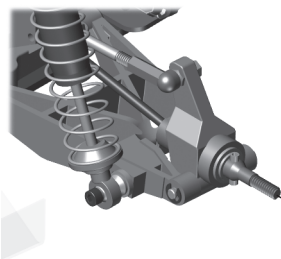
Build 2

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

6745
RC10 89'
Stealth car
rear wheel
hub



X2
4-40 x 5/16"
SHCS



8-32 steel
locknut

Build 2

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

Painting Tips:

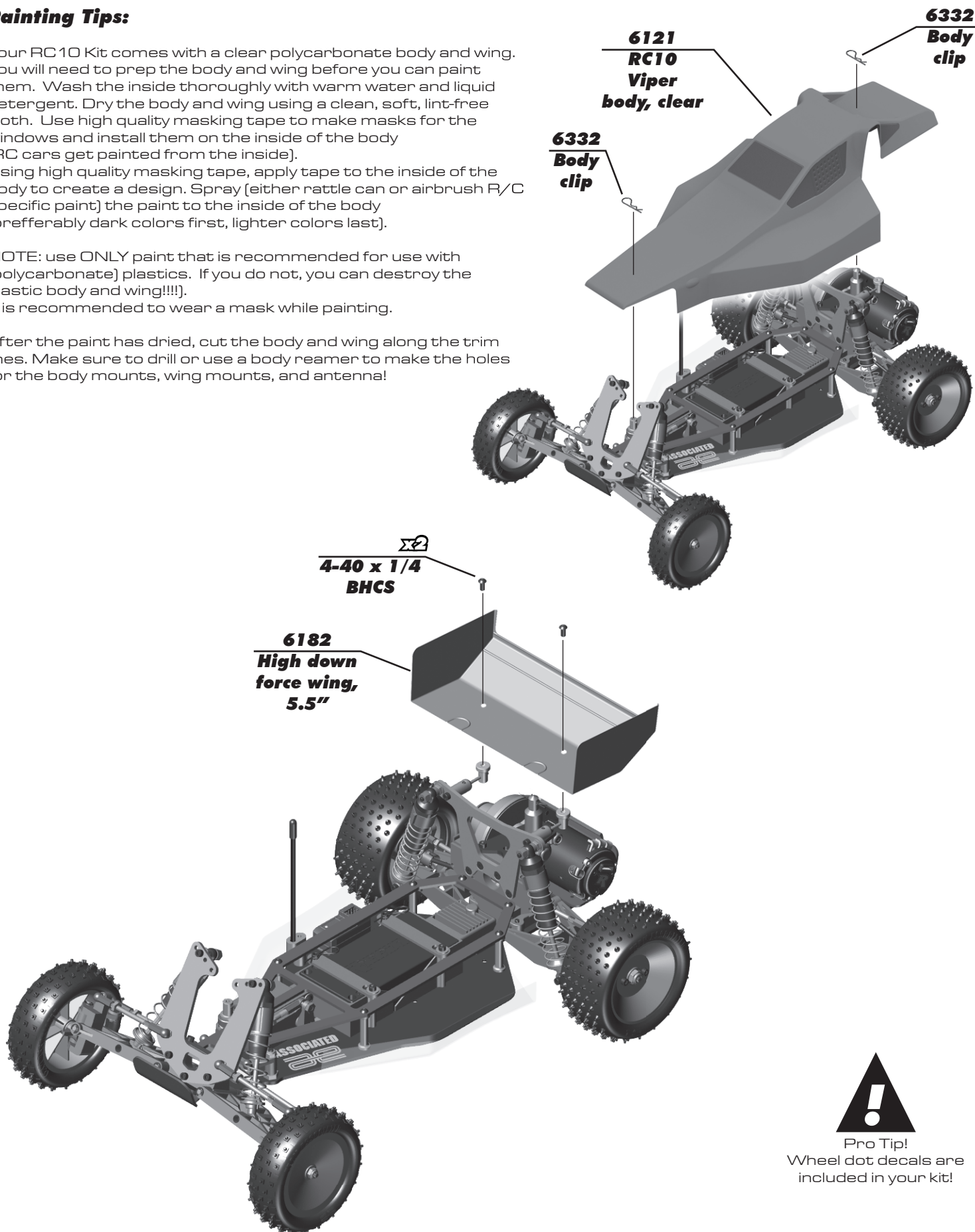
Your RC 10 Kit comes with a clear polycarbonate body and wing. You will need to prep the body and wing before you can paint them. Wash the inside thoroughly with warm water and liquid detergent. Dry the body and wing using a clean, soft, lint-free cloth. Use high quality masking tape to make masks for 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!



Pro Tip!
Wheel dot decals are
included in your kit!

:: Notes



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Check out the following web sites for all of our kits, current products,
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