

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

RC10

1989 IFMAR
MASAMI HIROSAKA
EDITION



14 IFMAR WORLD CHAMPIONSHIP TITLES
Masami Hiroseka
1989 IFMAR Off Road 2WD World Champion

Masami Hirose

WORLD CHAMPIONS.

TEAM ASSOCIATED



Sydney, Australia



:: 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)
- 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

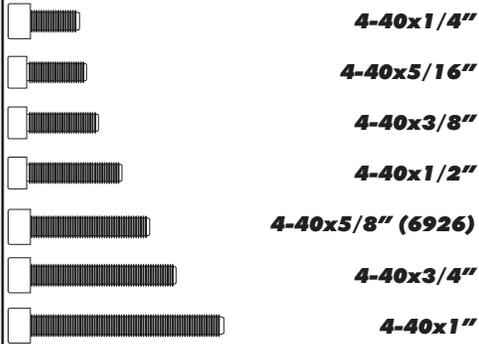
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630



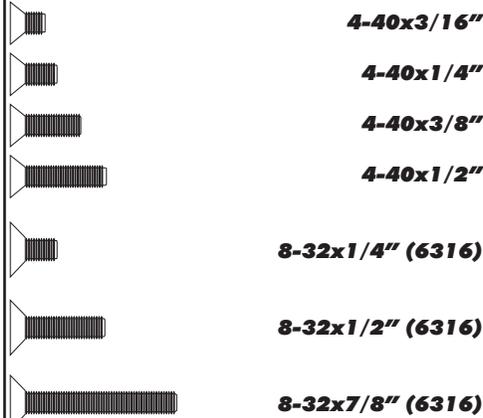
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

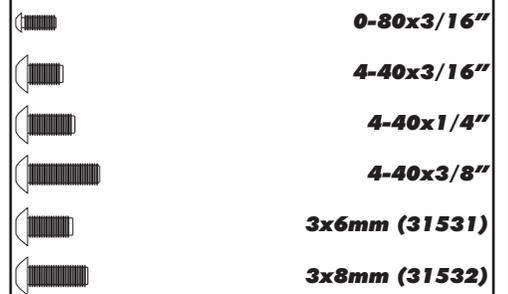
Cap Head (shcs)



Flat Head (fhcs)



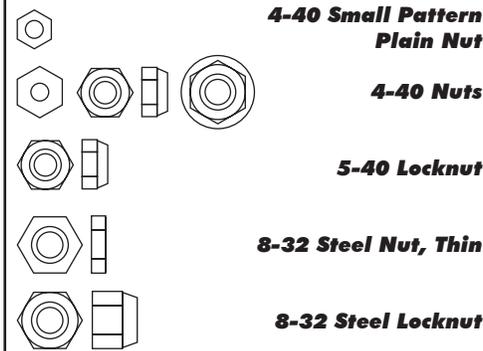
Button Head (bhcs)



Shims and Washers



Nuts (lock/plain)



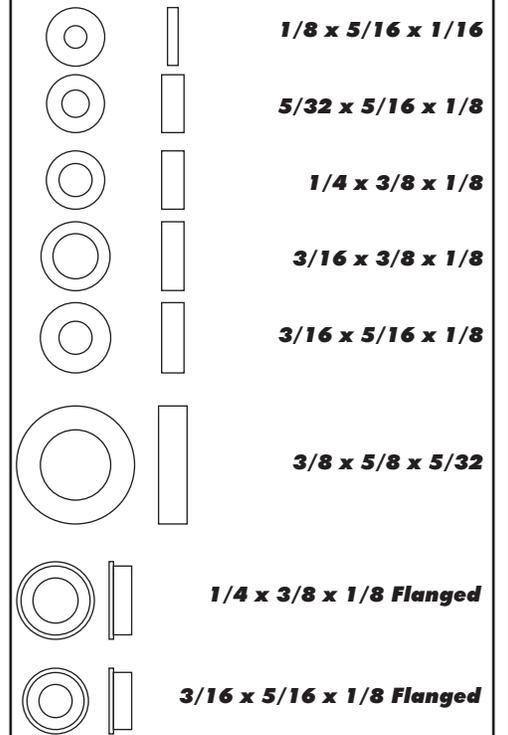
Set Screws



Clips



Bearings



Diff Balls



Notes:

Blank area for 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..... Electronics Build (Bag G)
4..... Table of Contents	19..... Wheels, Tires and Body Install (Bag H)
5..... Servo Saver Build (Bag A)	22..... Back Cover
5..... Front Arm / Steering Build (Bag B)	
7..... Transmission Build (Bag C)	
9..... Rear Bulkhead Build (Bag D)	

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



#6043 RC10 Masami Digital Manual

SCAN ME

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

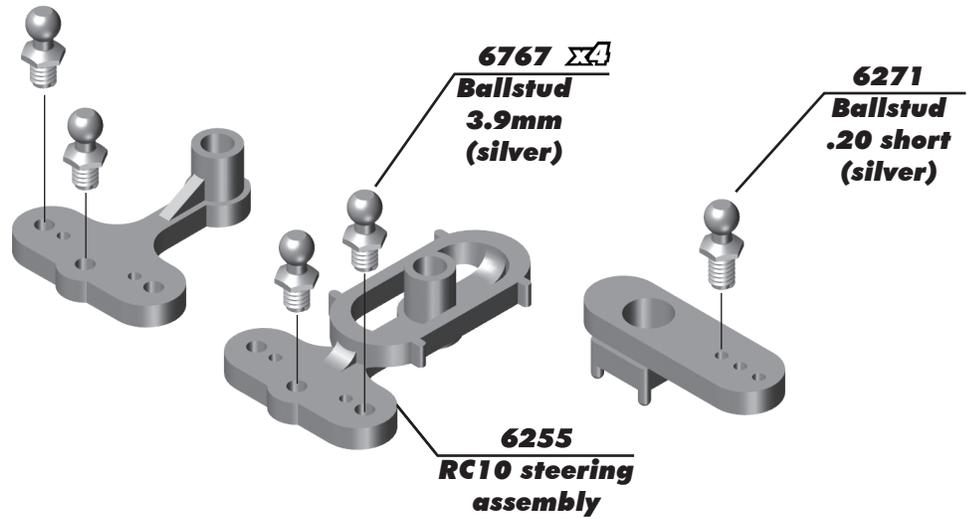
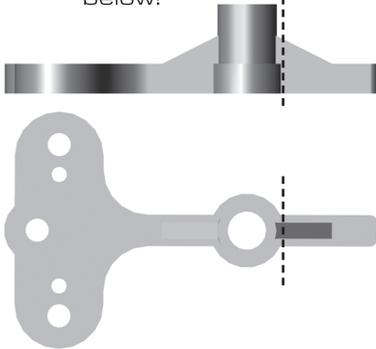


Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Servo Saver Build - Bag A - Step 1



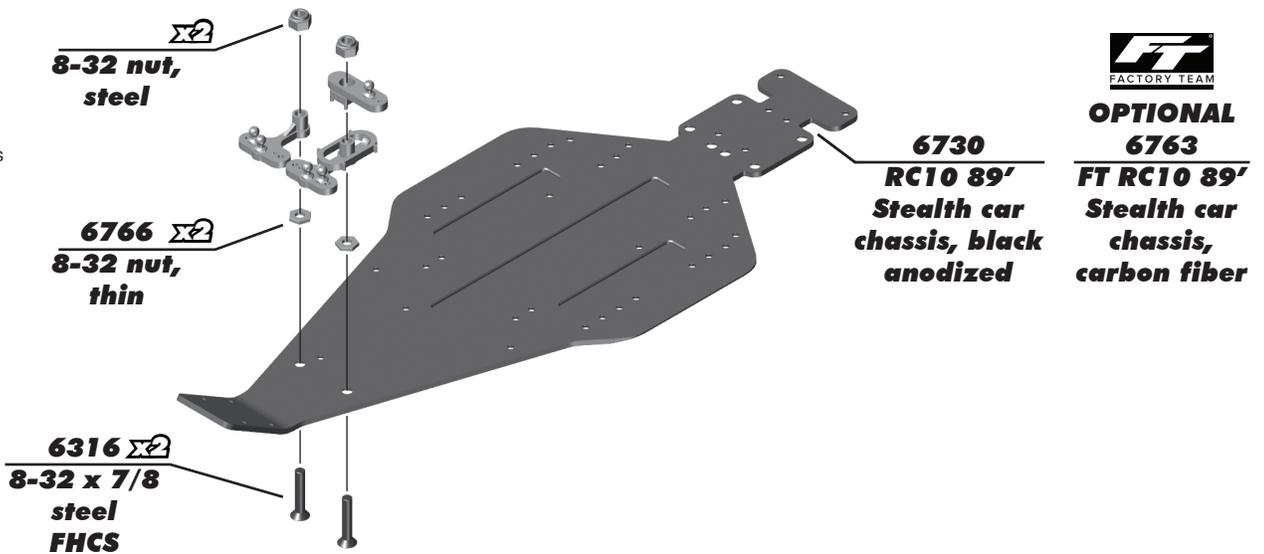
Trim the right side bulkhead as shown below!



:: Servo Saver Build - Bag A - Step 2



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

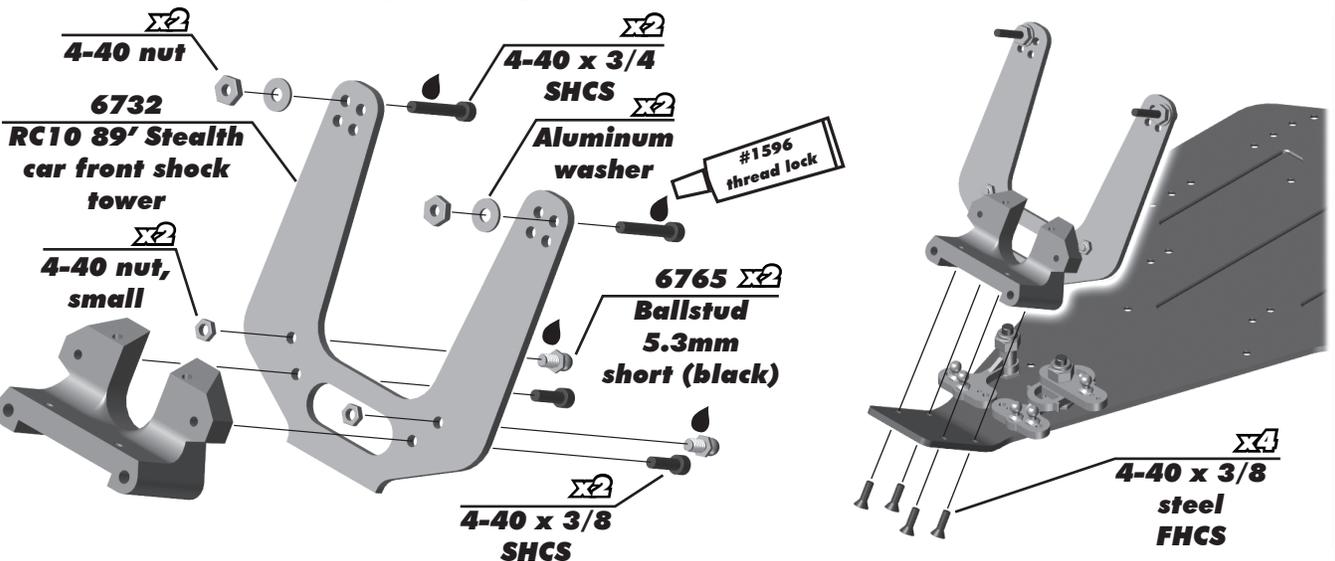


:: Front Arm / Steering Build - Bag B - Step 1



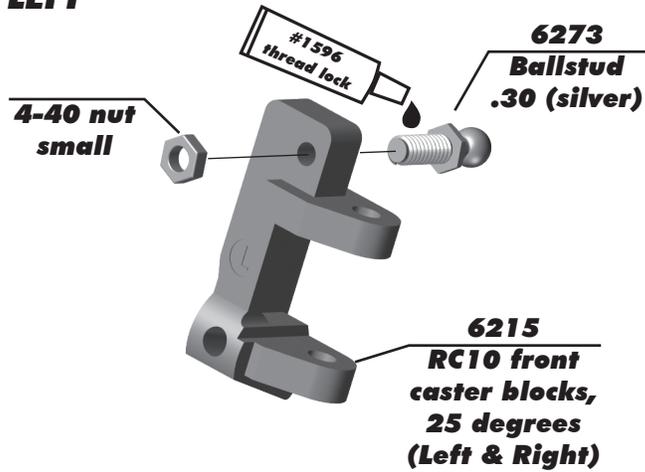
OPTIONAL 6769 FT RC10 89' Stealth car front bulkhead, machined

6734 RC10 89' Stealth car front bulkhead

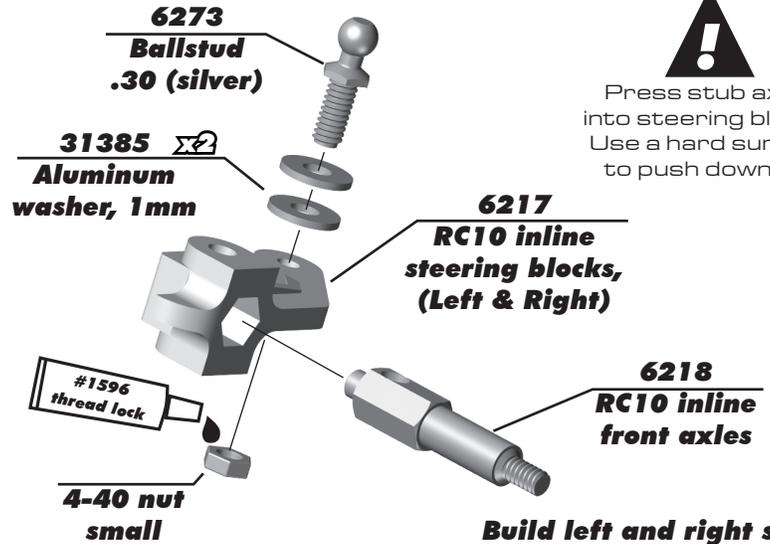


:: Front Arm / Steering Build - Bag B - Step 2

LEFT



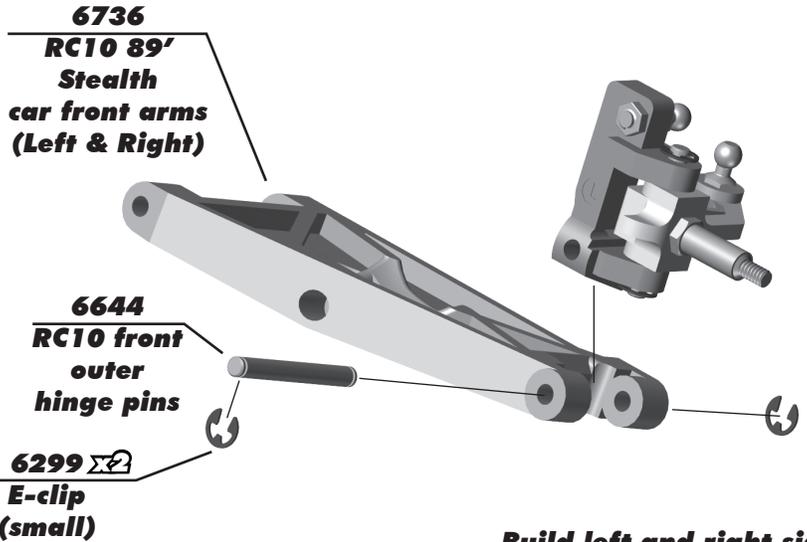
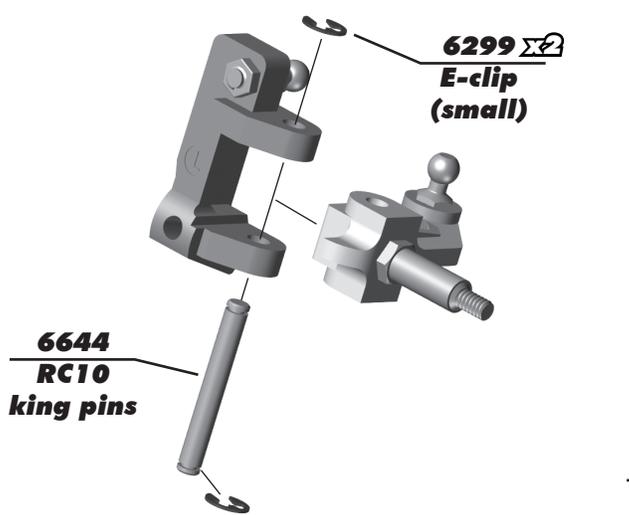
Build left and right sides!



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

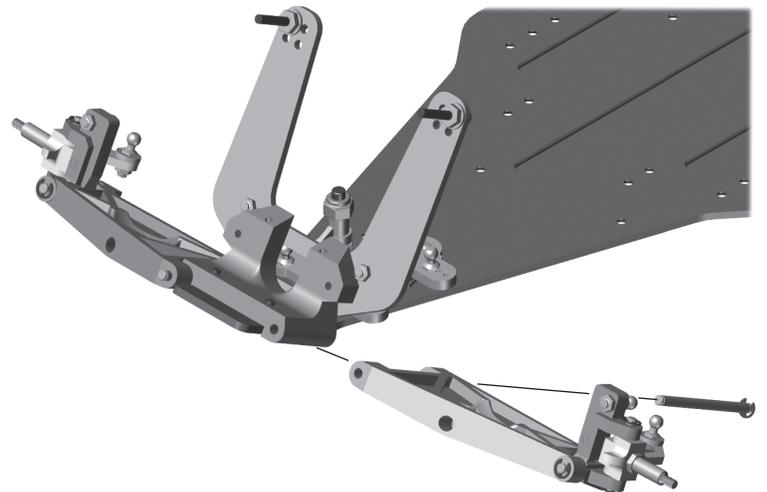
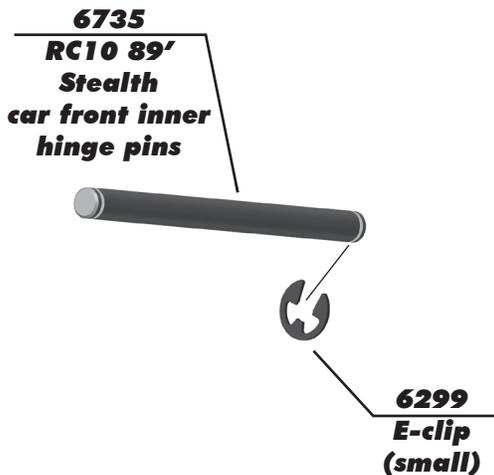
Build left and right sides!

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



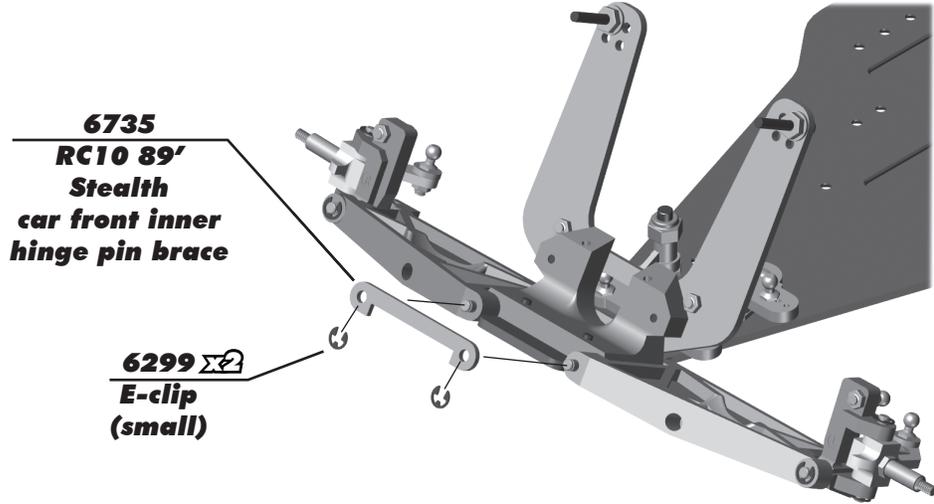
Build left and right sides!

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

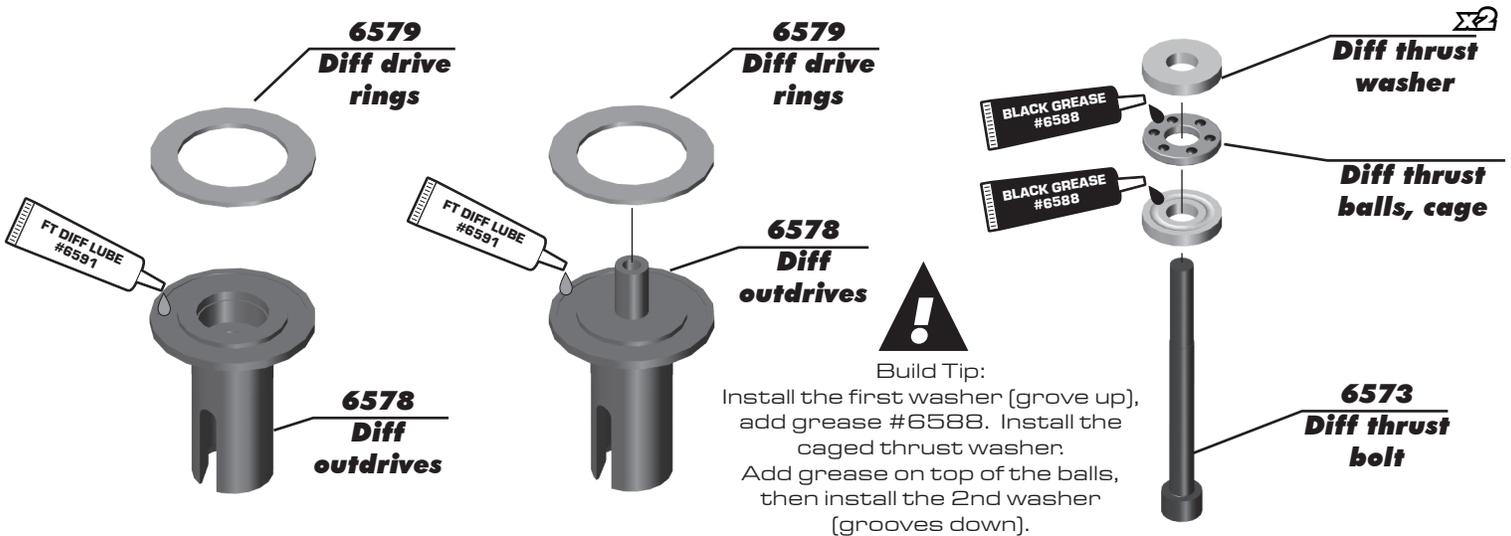


Build left and right sides!

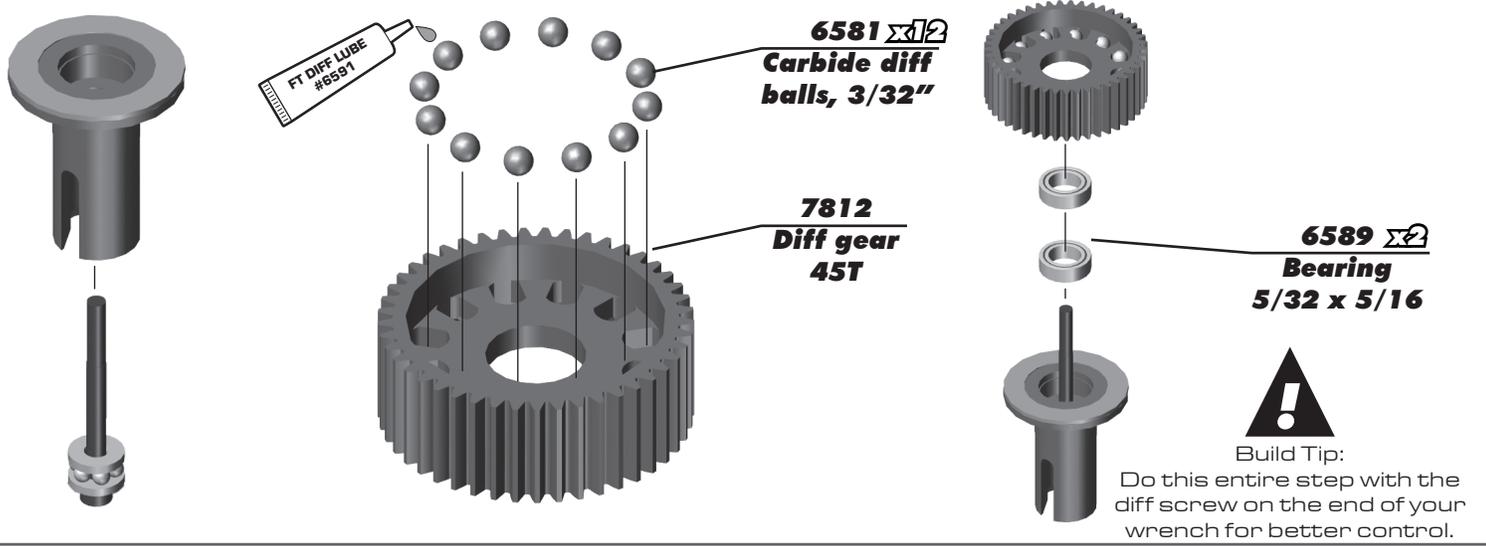
:: Front Arm / Steering Build - Bag B - Step 5



:: Transmission Build - Bag C - Step 1



:: 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

6565
RC10 Stealth transmission case, right

6571
Drive gear roll pin

3977
Bearing
3/16 x 3/8

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

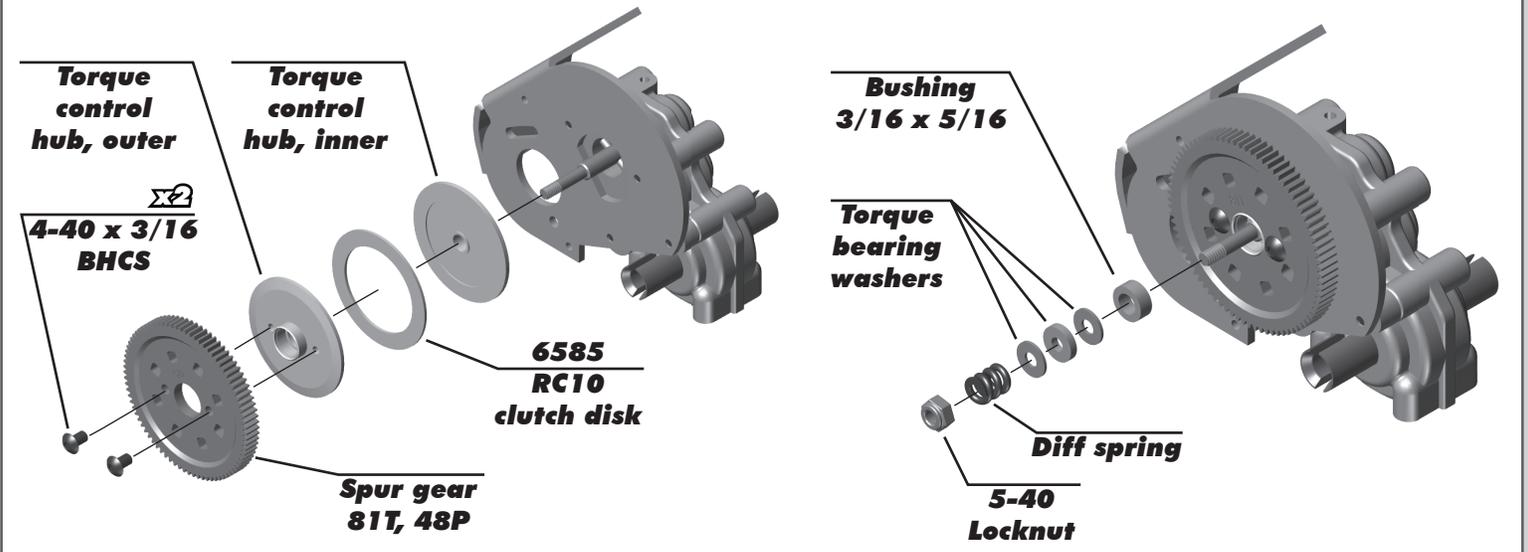
6565 x4
Motor plate spacers

4-40 x 1"
SHCS

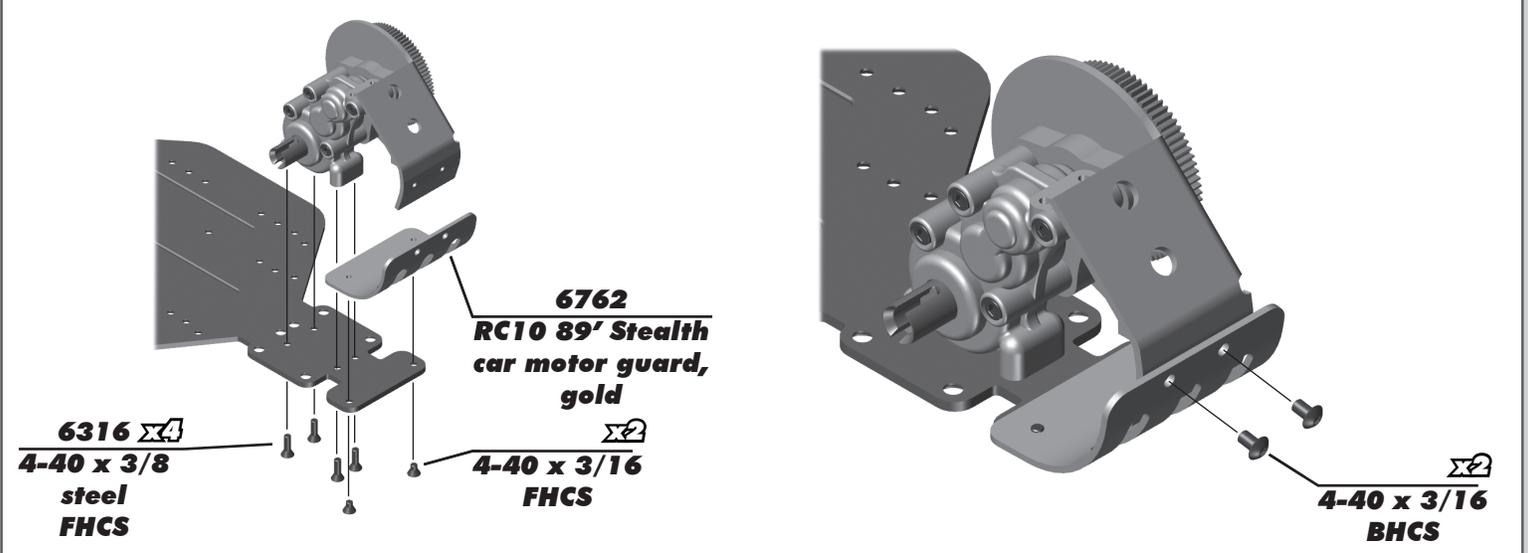
Felt spacer

6607
RC10 motor mount plate, gold

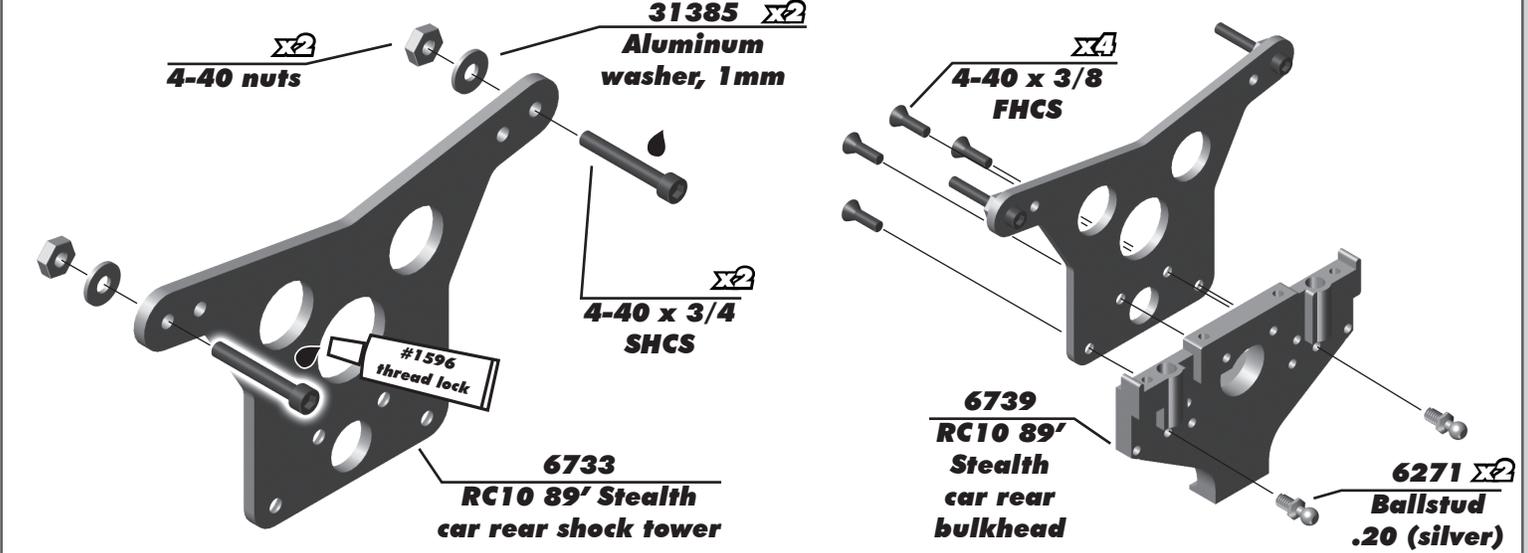
:: Transmission Build - Bag C - Step 6



:: Transmission Build - Bag C - Step 7



:: Rear Bulkhead Build - Bag D - Step 1



:: Rear Bulkhead Build - Bag D - Step 2

6316 $\Sigma 2$
8-32 x 1/2
steel
FHCS

6739
RC10 89' Stealth
car transmission
brace

7811
RC10 body
mount

6316
8-32 x 1/2
steel
FHCS

!
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

4-40 x 5/16 $\Sigma 4$
SHCS

6638 $\Sigma 2$
RC10 wing
tubes

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

:: Rear Bulkhead Build - Bag D - Step 4

6373 $\Sigma 3$
Axle
shims,
1/4

6639
RC10 rear
hub carrier
(Left & Right)

6764
RC10 rear
universals,
56.5mm

6374
Roll pin
.1 dia x 3x8

6273
Ballstud
.30 (silver)

#1596
thread lock

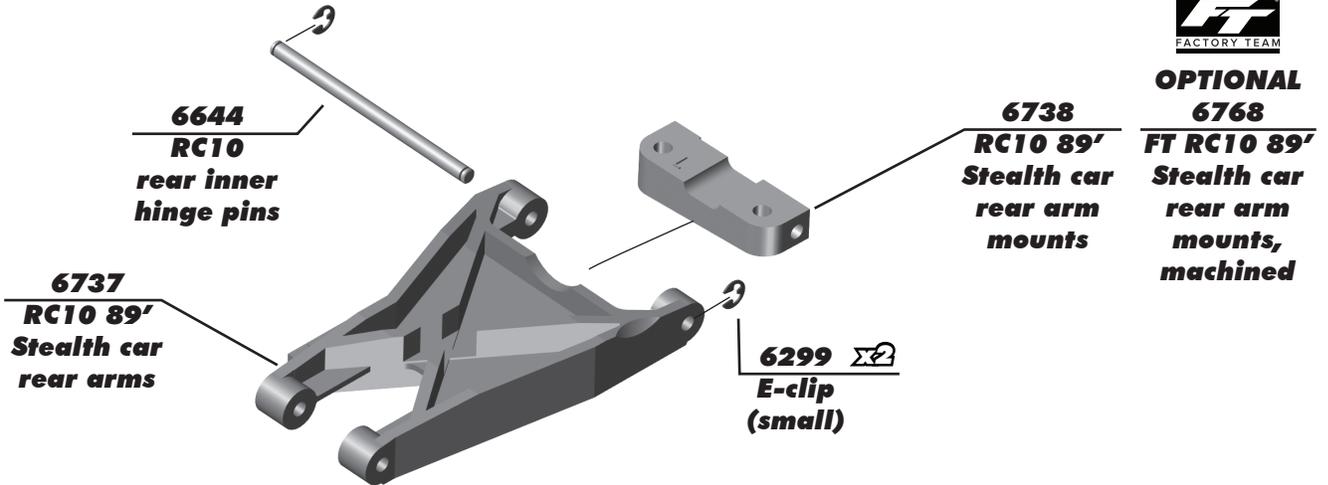
**4-40 nut,
small**

3977 $\Sigma 2$
Flanged bearing
1/4 x 3/8 x 1/8

Build left and right sides!

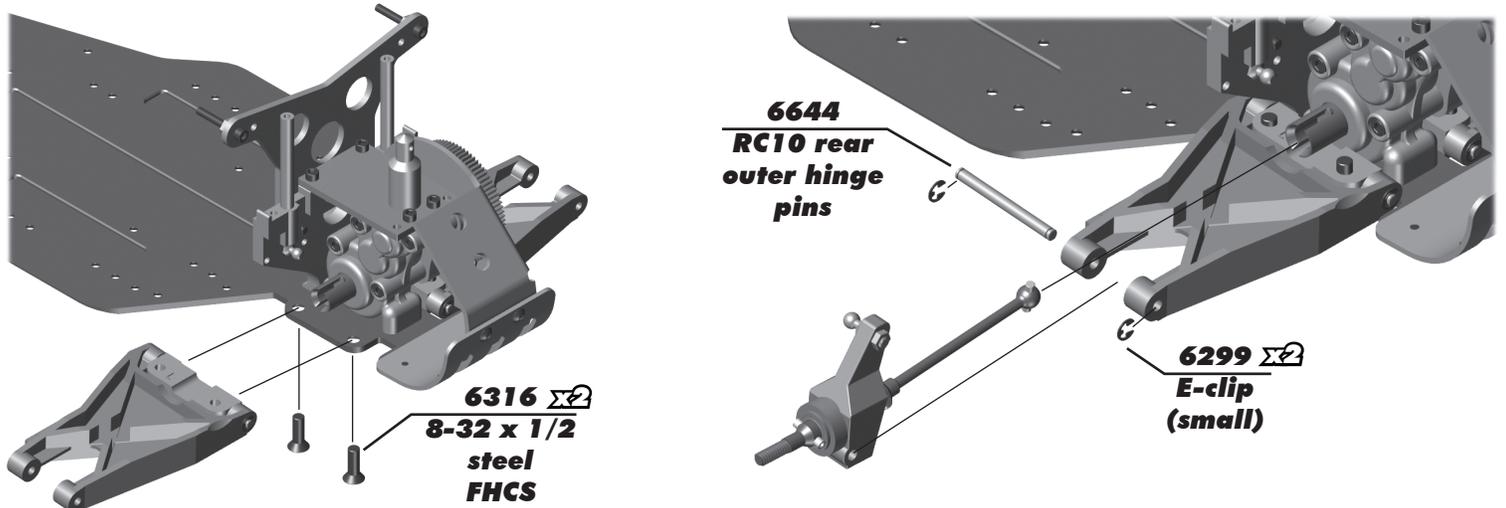
Build left and right sides!

:: Rear Bulkhead Build - Bag D - Step 5



Build left and right sides!

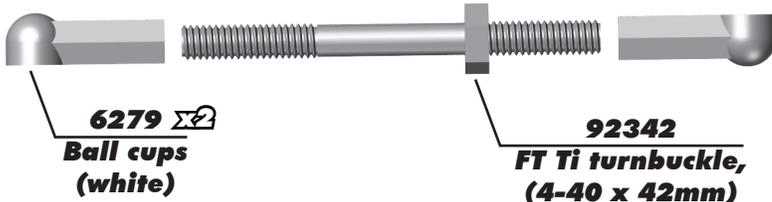
:: Rear Bulkhead Build - Bag D - Step 6



Build left and right sides!

Build left and right sides!

:: Turnbuckles Build - Bag E - Step 1



**Rear Camber Turnbuckle
1.02" (26mm)**

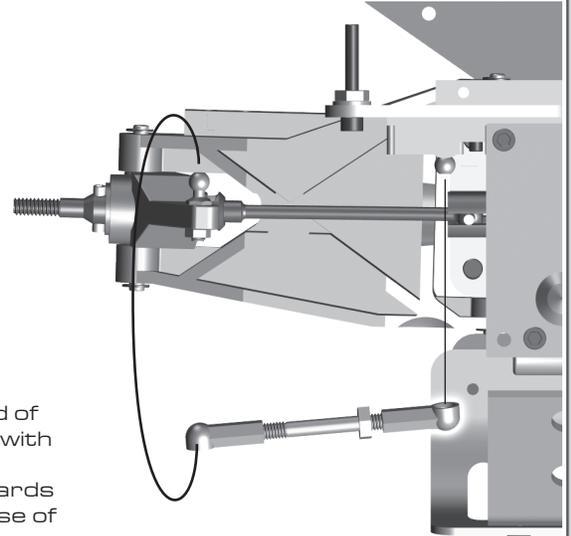


Recommended turnbuckle lengths are approximate. Final recommended settings = 0 degree Front Toe in and -2 Degree Camber Front and Rear.

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.



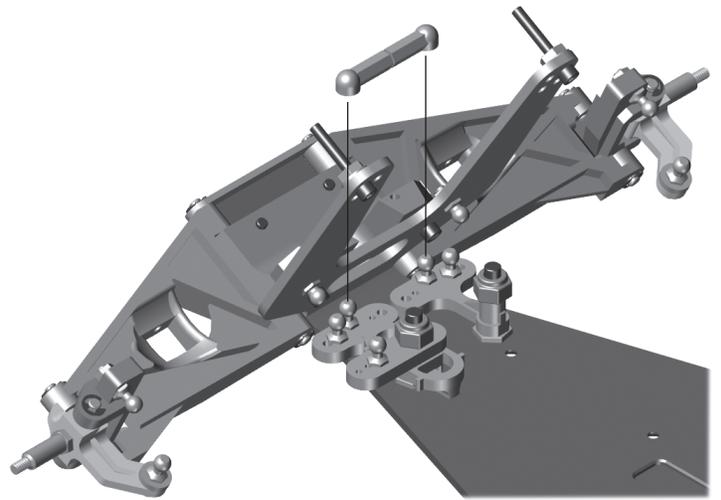
:: Turnbuckles Build - Bag E - Step 2



6279 $\Sigma 2$
Ball cups
 (white)

Set screw
 4-40 x 5/8

Steering Rack Turnbuckle
 1.30" (33mm)



:: Turnbuckles Build - Bag E - Step 3



6279 $\Sigma 2$
Ball cups
 (white)

92343
FT Ti turnbuckle,
 (4-40 x 52.6mm)

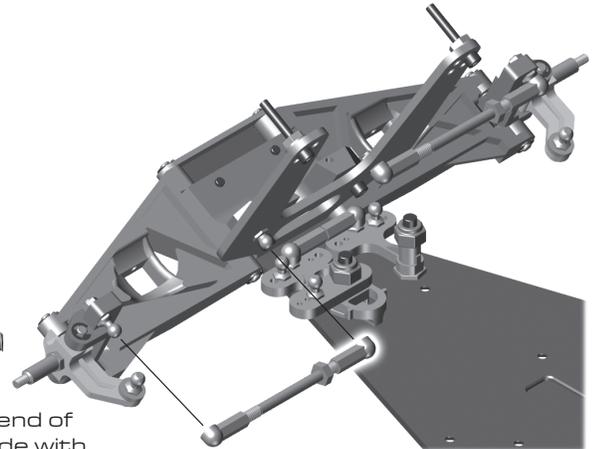
Front Camber Turnbuckle
 1.53" (39mm)



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



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



6279 $\Sigma 2$
Ball cups
 (white)

92344
FT Ti turnbuckle,
 (4-40 x 60.1mm)

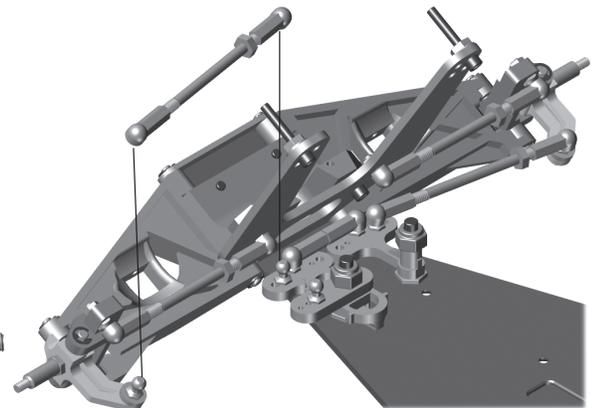
Steering Turnbuckle
 1.65" (42mm)



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



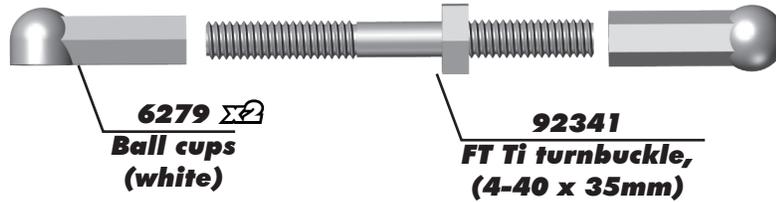
The adjustment nut on the end of the turnbuckles notes the side with the right hand threads. Masami mounted the nuts towards the outside of the vehicle for ease of adjustment.



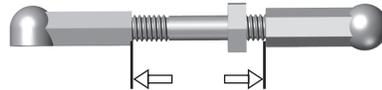
Build left and right sides!

:: Turnbuckles Build - Bag E - Step 5

!
Set aside until you are installing the servo!

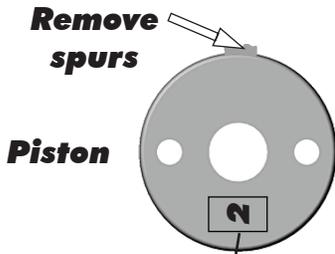


**Servo Turnbuckle
0.70" (18mm)**



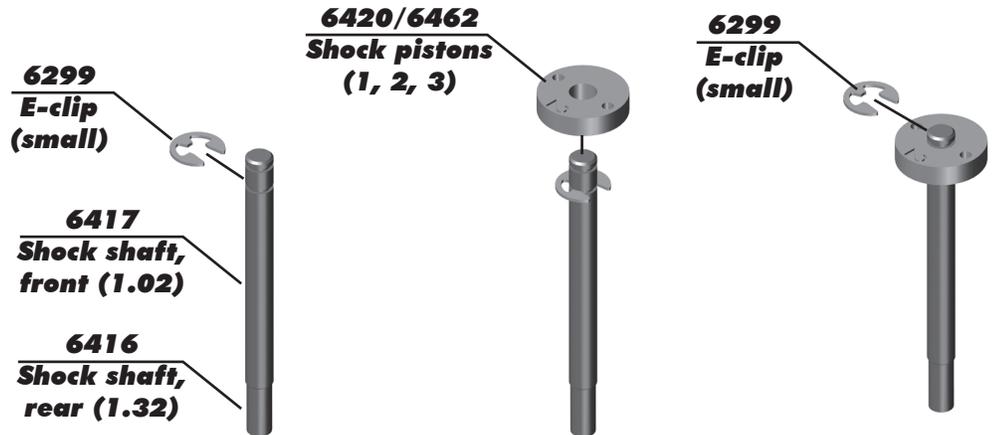
!
The adjustment nut on the end of the turnbuckles notes the side with the right hand threads. Masami mounted the nuts towards the outside of the vehicle for ease of adjustment.

:: 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!



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

Shock fluid 30wt #5422

SNAP!

Rear Shock

6435 FT Hard Anodized shock body, rear (1.32)

Shock fluid 30wt #5422

SNAP!

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

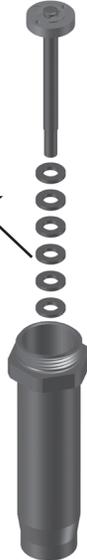
:: Shocks Build - Bag F - Step 3

Front Shock



Rear Shock

6420/6462 X6 Shock downstops



6420/6462 Shock cap o-ring

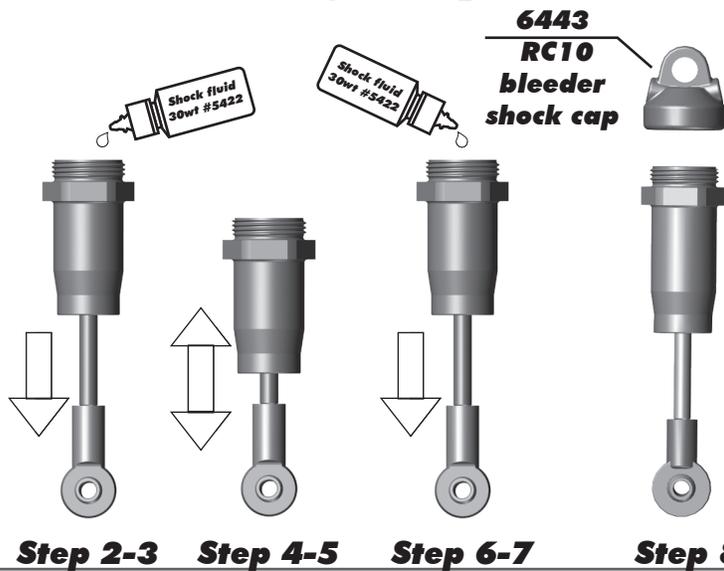


6279 Shock rod end

6420/6462 Shock pivot ball

Build two front and two rear!

:: Shocks Build - Bag F - Step 4

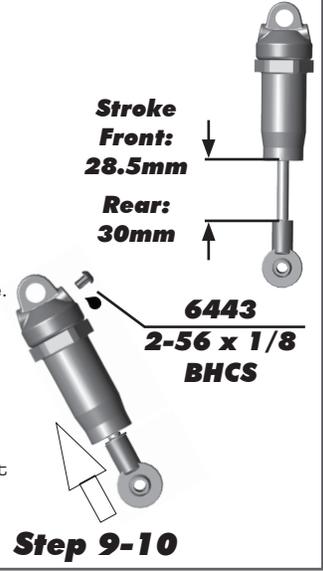


Step 2-3 Step 4-5 Step 6-7 Step 8

Shock Bleeding Steps:

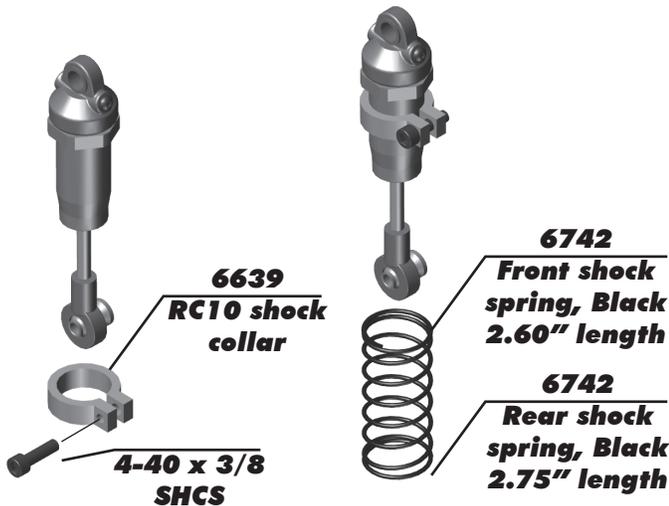
1. Before assembly, get each bleed screw and thread it 1-2 turns into the shock cap, then remove the screw. This will make it easier when you are bleeding your shocks.
2. Pull shock shaft down.
3. Fill shock body 3/4 full with silicone shock fluid.
4. Slowly move the shock shaft up and down to remove air from under the piston.
5. Wait for bubbles to come to surface.
6. Fill shock body to top with silicone shock fluid.
7. Place a drop of oil in the cap and on cap threads.
8. Install cap (without bleed screw) and tighten completely.
9. Slowly compress shaft all the way to bleed excess silicone shock fluid out the hole in the cap (use rag around shock to catch excess fluid).
10. Install button head screw until snug while shaft is fully compressed.

Stroke Front: 28.5mm
Rear: 30mm



Step 9-10

:: Shocks Build - Bag F - Step 5



6639 RC10 shock collar

4-40 x 3/8 SHCS

6742 Front shock spring, Black 2.60" length

6742 Rear shock spring, Black 2.75" length



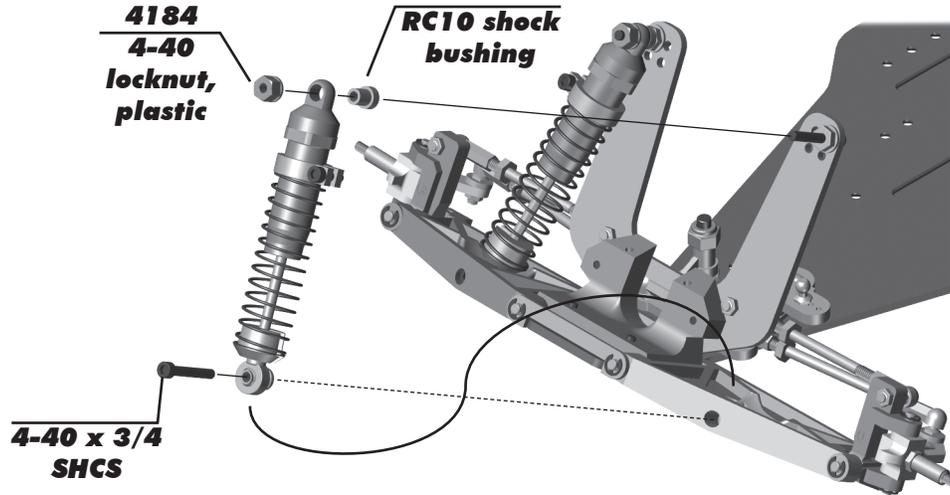
Due to various weights of electronics, these settings may change

Front: 0mm
Rear: 5.5 - 6.5mm

6639 RC10 spring cup

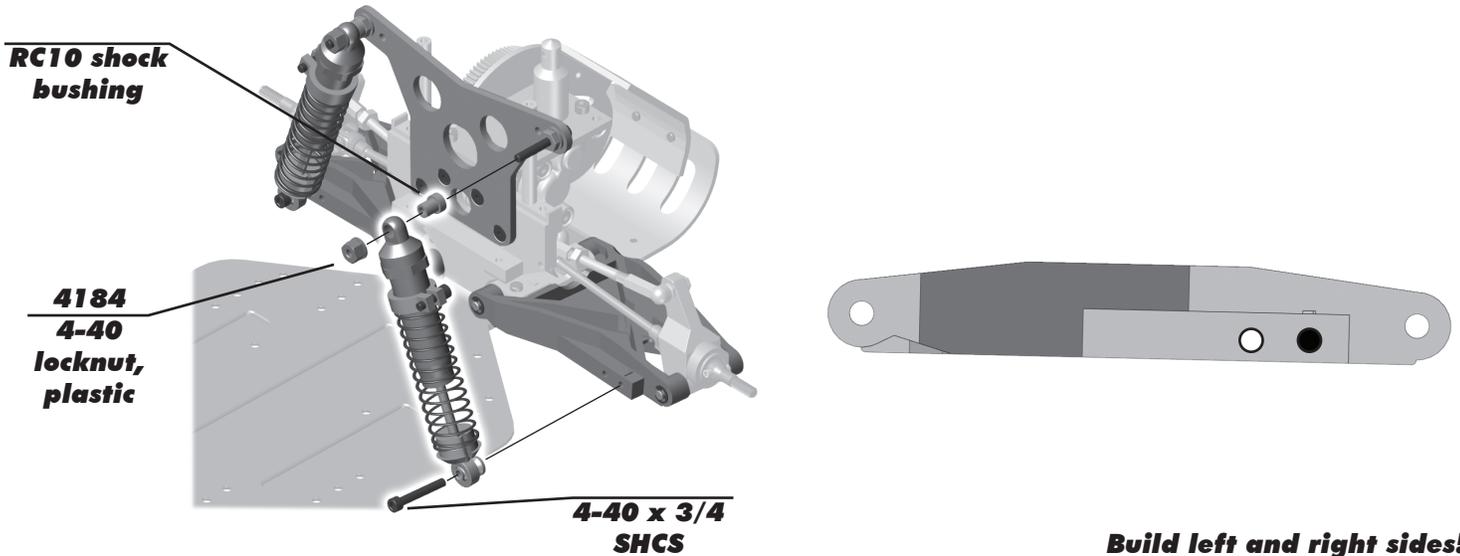
Build two front and two rear!

:: Shocks Build - Bag F - Step 6



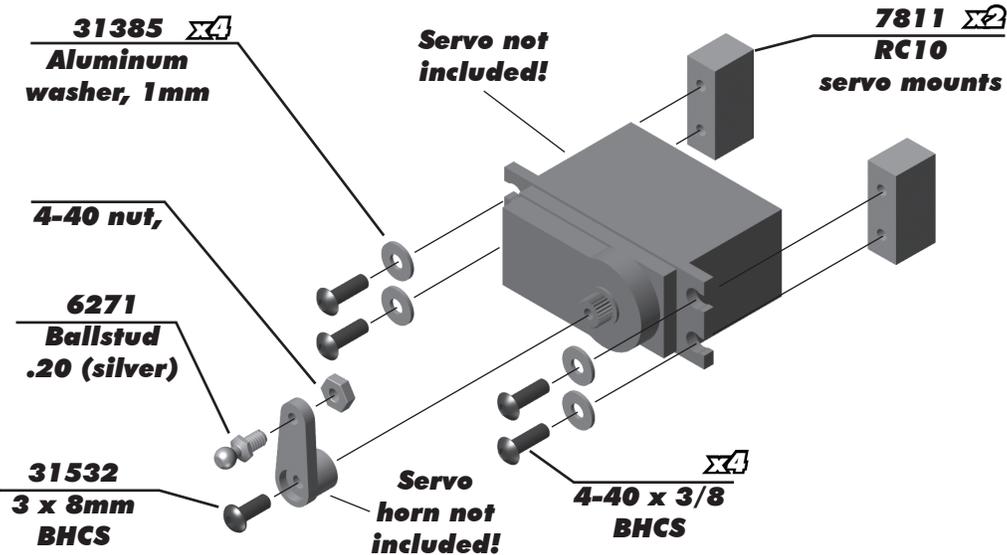
Build left and right sides!

:: Shocks Build - Bag F - Step 7

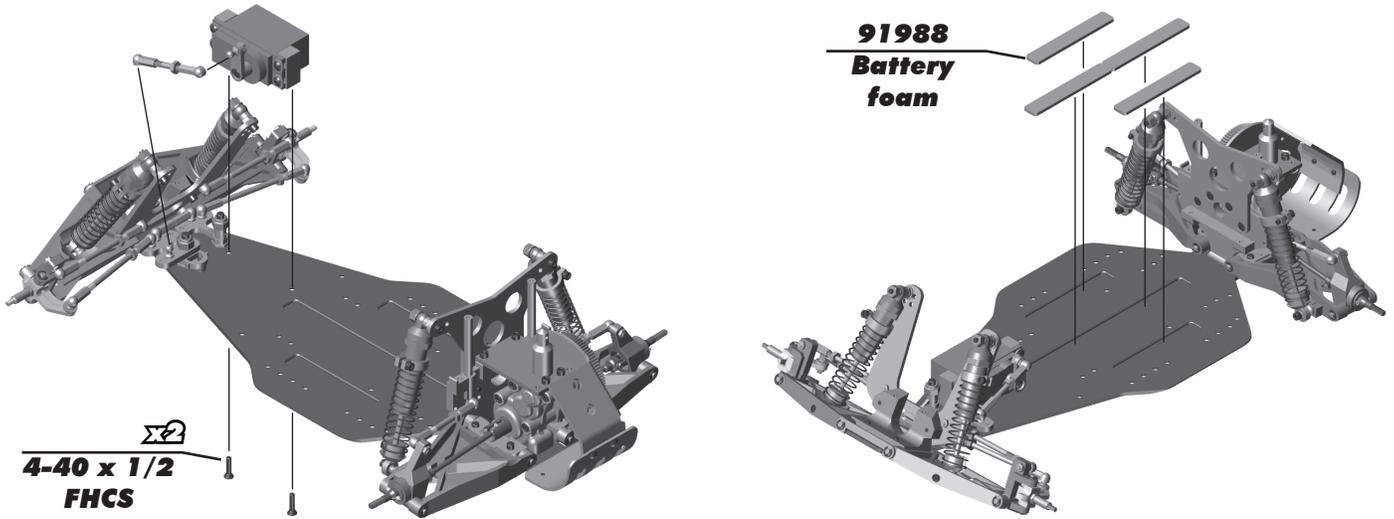


Build left and right sides!

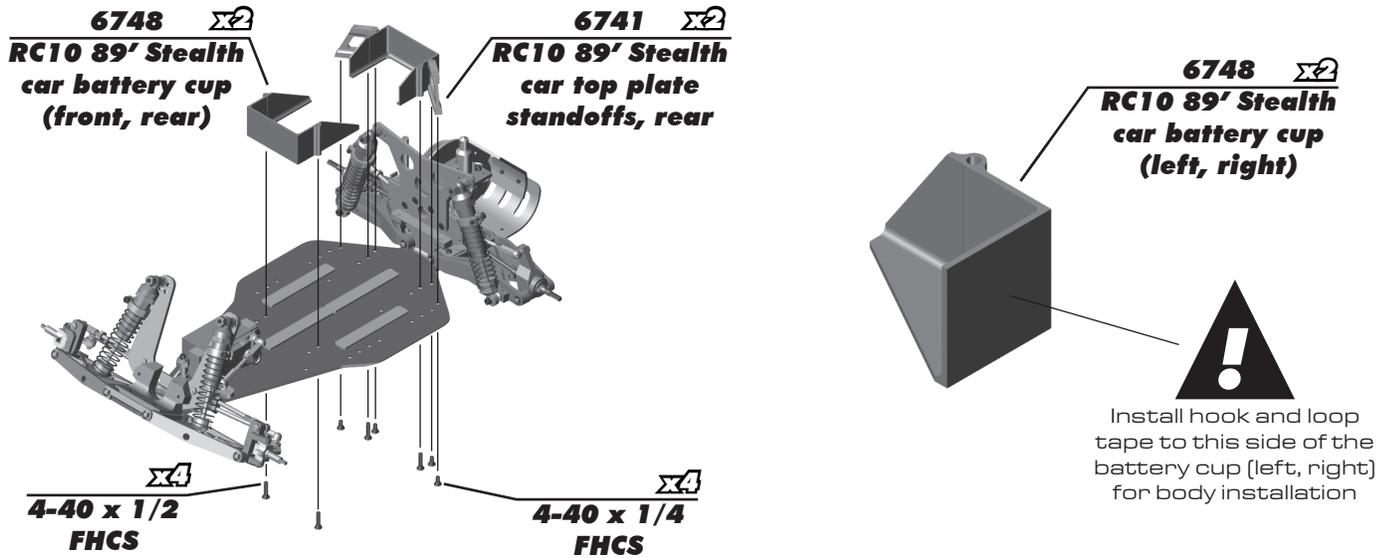
:: Electronics Build - Bag G - Step 1



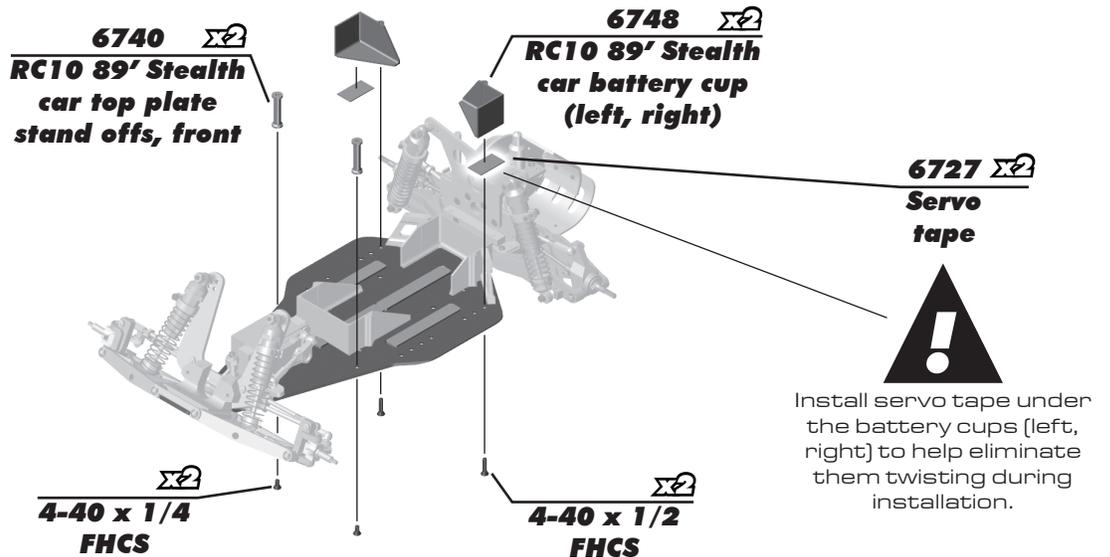
:: Electronics Build - Bag G - Step 2



:: Electronics Build - Bag G - Step 3

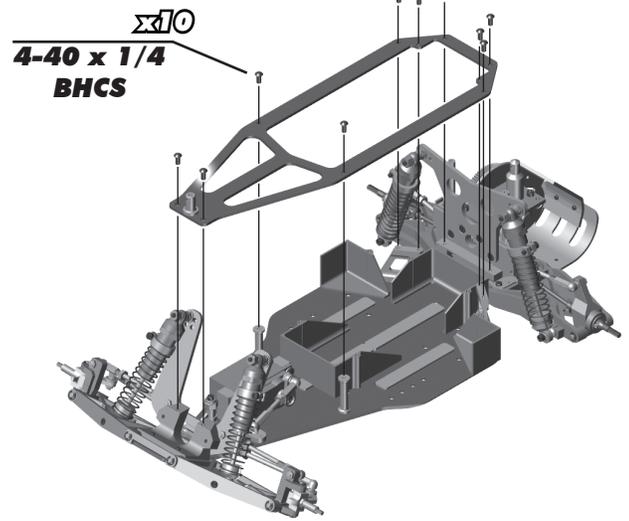
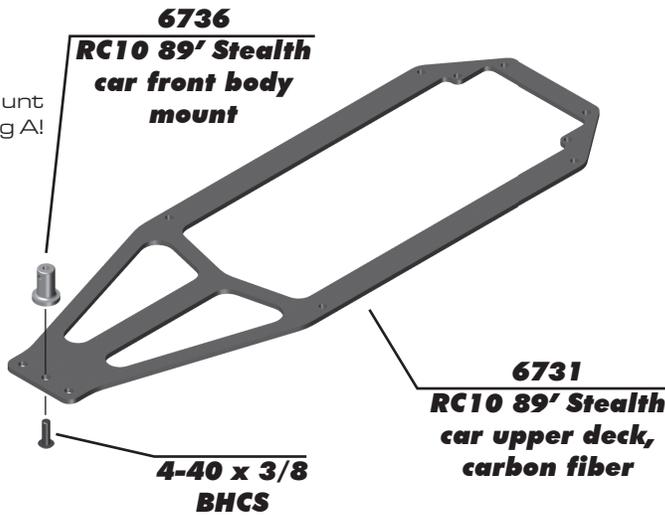


:: Electronics Build - Bag G - Step 4

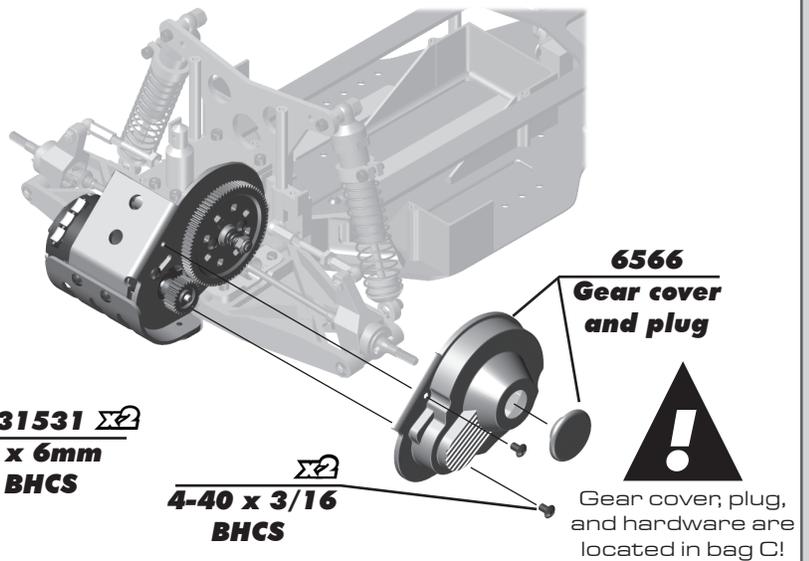
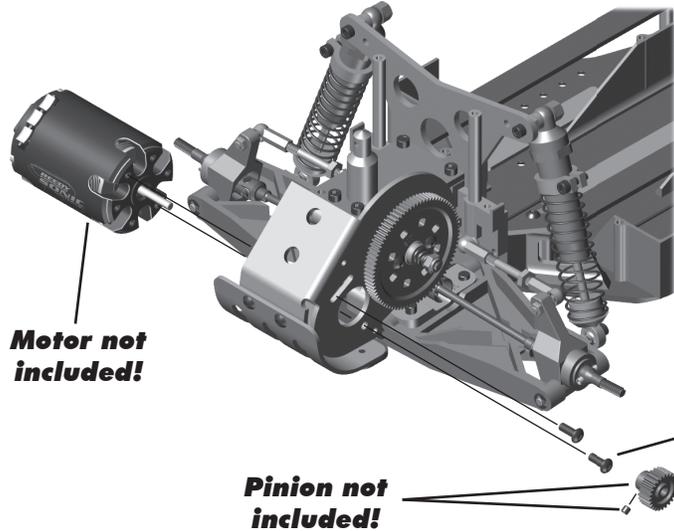


:: Electronics Build - Bag G - Step 5

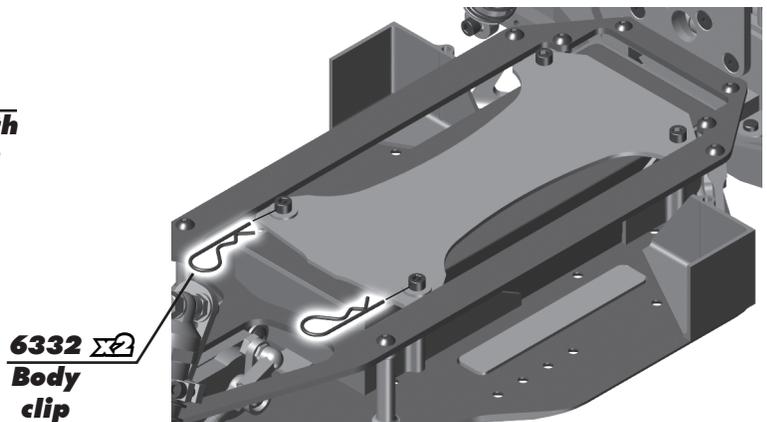
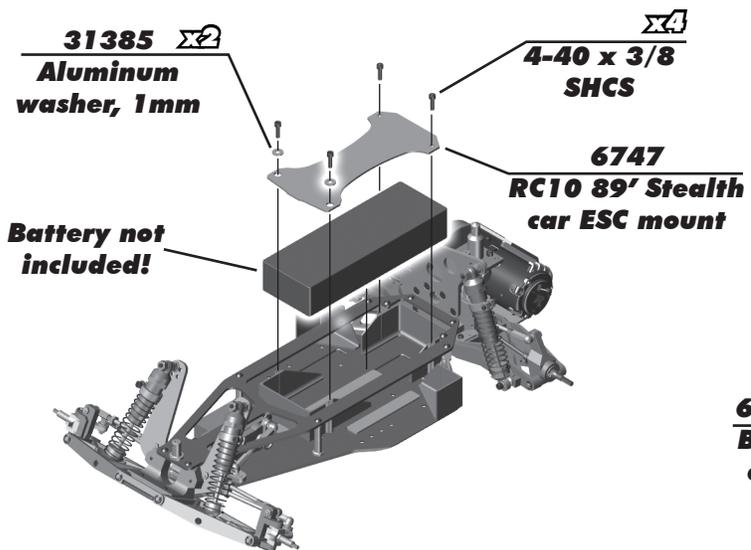
!
Front body mount
is located in bag A!



:: Electronics Build - Bag G - Step 6

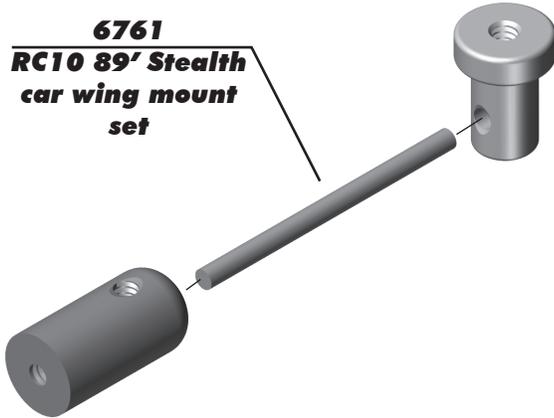


:: Electronics Build - Bag G - Step 7

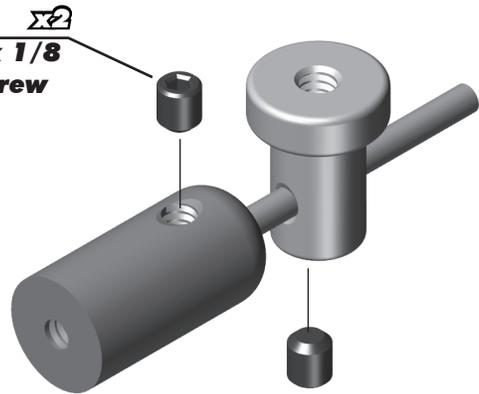


:: Electronics Build - Bag G - Step 8

6761
RC10 89' Stealth
car wing mount
set



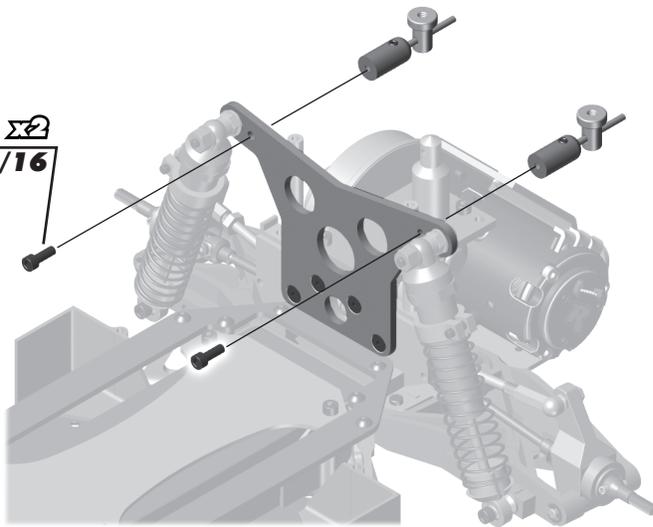
4-40 x 1/8
set screw



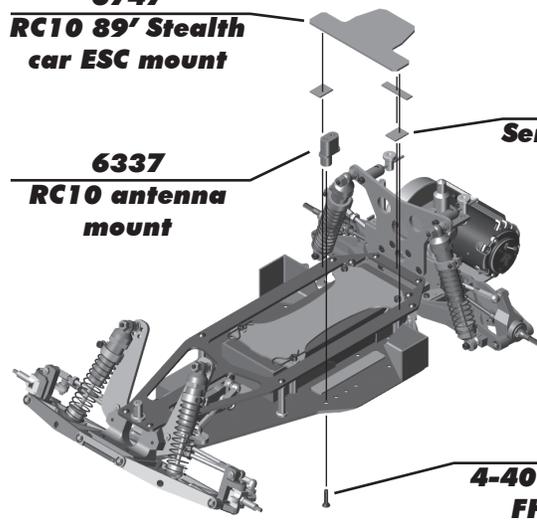
Build 2

:: Electronics Build - Bag G - Step 9

4-40 x 5/16
SHCS



6747
RC10 89' Stealth
car ESC mount



6727 $\Sigma 3$
Servo tape

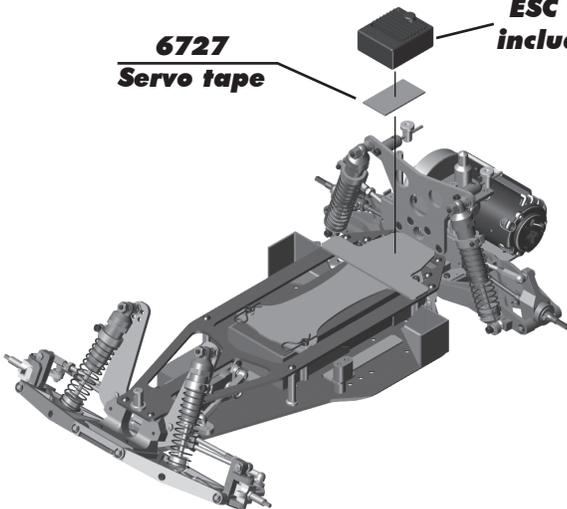
6337
RC10 antenna
mount

4-40 x 1/2
FHCS

:: Electronics Build - Bag G - Step 10

6727
Servo tape

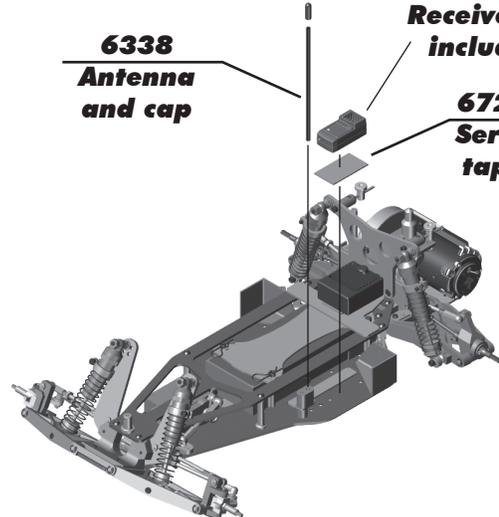
**ESC not
included!**



6338
Antenna
and cap

**Receiver not
included!**

6727
Servo
tape



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

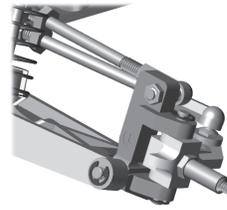
6759
RC10 89'
Stealth car
front tires



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

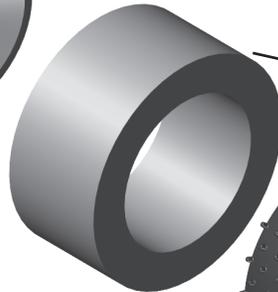
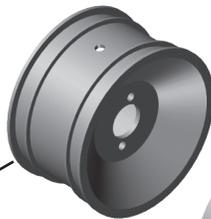


5-40
locknut

Build 2

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

6749
RC10 89'
Stealth car
rear wheels,
2.2", pink



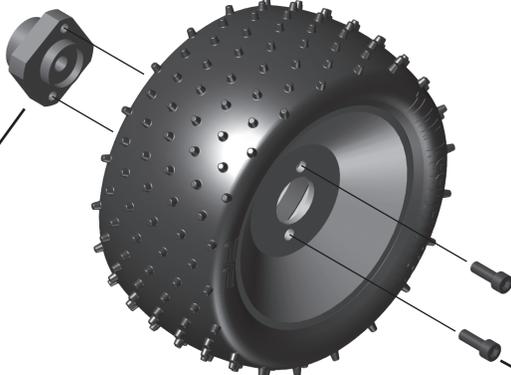
6760
RC10 89'
Stealth car
rear tires,
and inserts



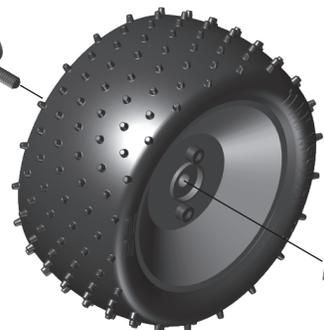
Build 2

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

6745
RC10 89'
Stealth car
rear wheel
hub




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).

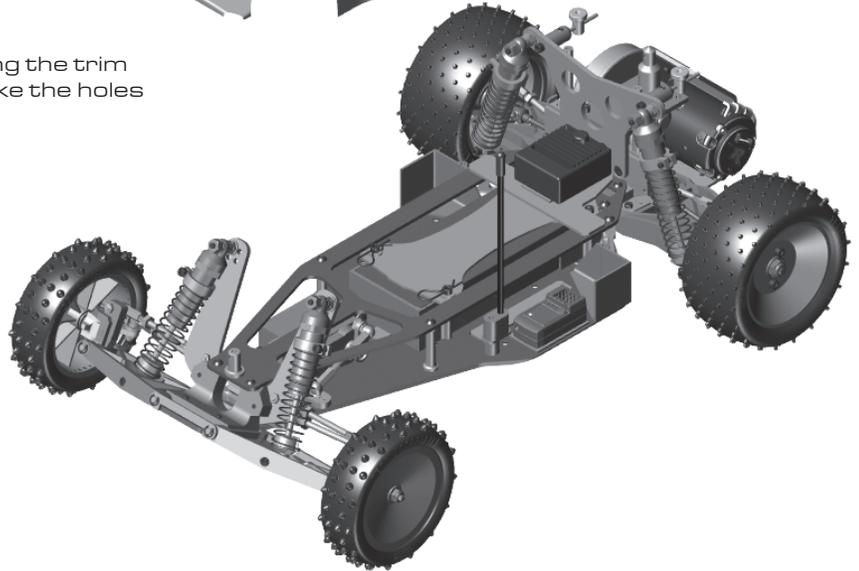
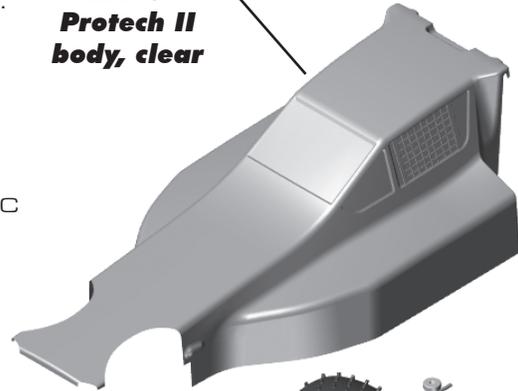
Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (either rattle can or airbrush R/C specific paint) the paint to the inside of the body (preferably dark colors first, lighter colors last).

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!

6173
RC10
Protech II
body, clear



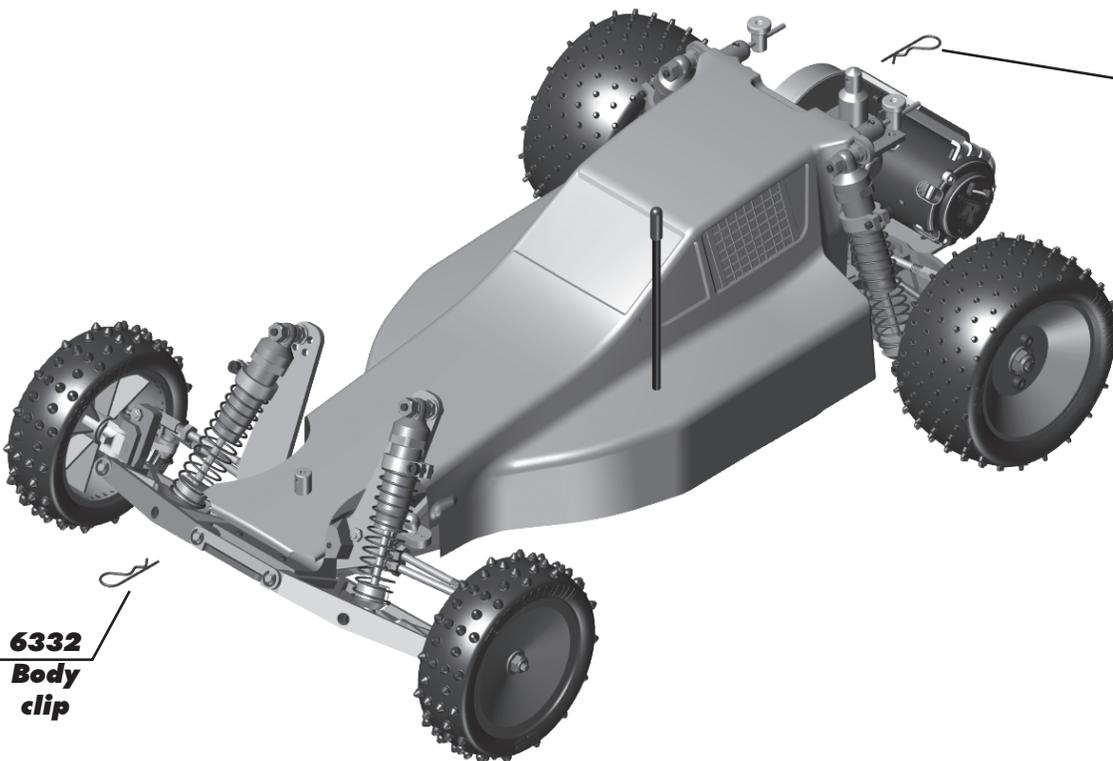
6332
Body
clip



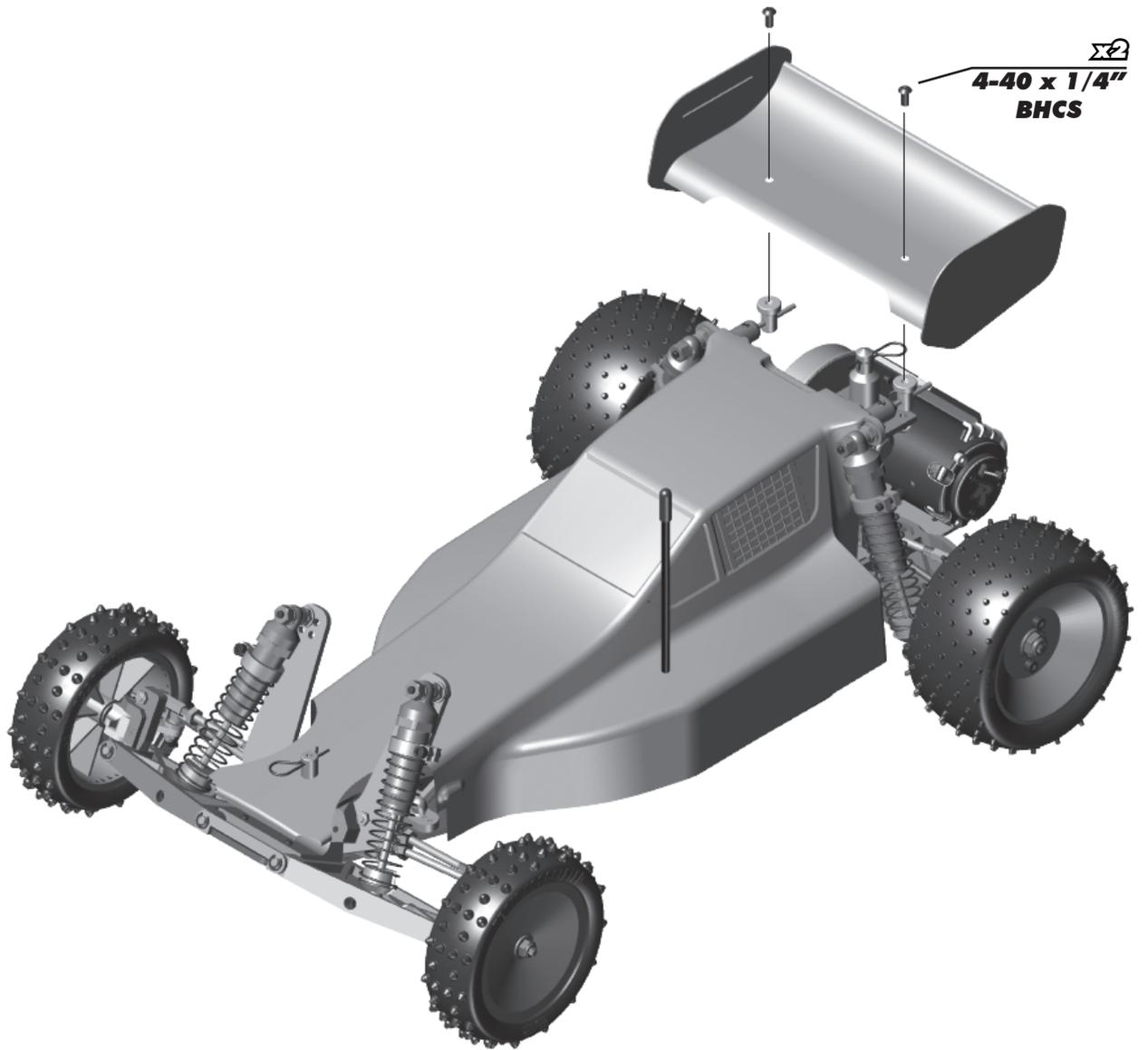
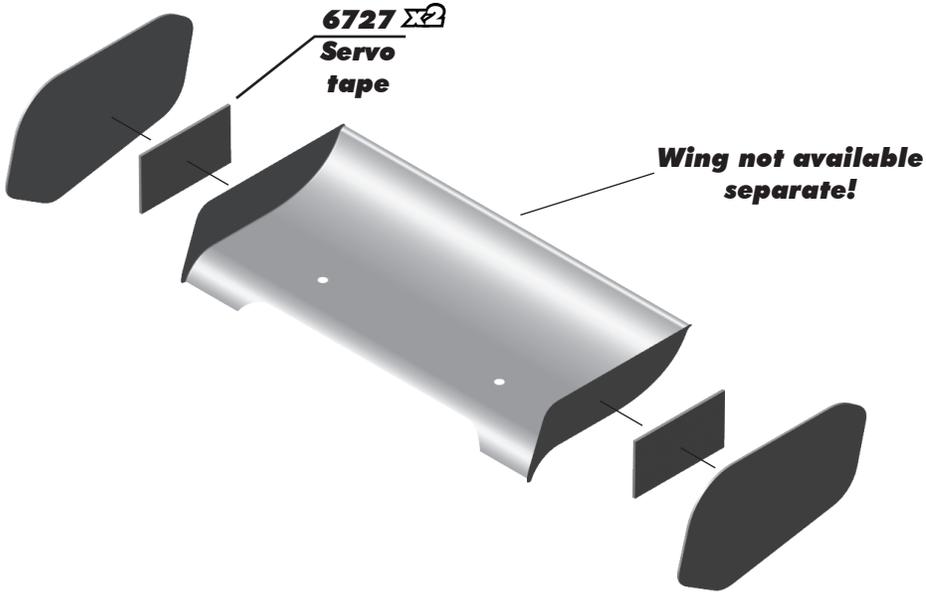
Option

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

6332
Body
clip



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





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

call: (949) 544-7500 - fax: (949) 544-7501
Check out the following web sites for all of our kits, current products,
new releases, setup help, tips, and racing info!
www.AssociatedElectrics.com

FOLLOW US ON SOCIAL MEDIA



TeamAssociated
ReedyPower
ElementRC
FactoryTeam51



@TeamAssociatedRC
@ReedyPower
@Element_RC
@FactoryTeam_RC



@Team_Associated
@ReedyPower



@Associated_Electrics



TeamAssociatedRC
ElementRC



TeamAssociated
Reedy
Element-rc