

RC10T 4WD

1:10 SCALE COMPETITION FOUR-WHEEL DRIVE

1:10 SCALE ELECTRIC 4WD COMPETITION OFF-ROAD CAR KIT INSTRUCTION MANUAL



Due to ongoing research and development, photos may not match current kit components.
RC10 photos shown equipped with items that may NOT be included with vehicle.

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

- Gold anodized 6061-T6 aluminum monocoque 4wd tub chassis
- Gold anodized nose plate and motor plate
- Exclusive Gold anodized nose tubes
- New Gold anodized aluminum chassis stiffeners
- New designed gold anodized thumb nuts
- New larger diameter pulley flanges (front)
- New servo mount and belt guide system
- New red front shock springs
- Fully adjustable four-wheel independent suspension
- Long travel, fluid-filled, hard-anodized aluminum coil-over shocks
- Race proven front and rear Stealth transmissions
- Adjustable ball differentials front and rear
- Exceptional ground clearance with low center of gravity
- Vintage stadium truck spike tires included
- Clear RC10T body included
- Precision bearings throughout
- Fits 6-cell NiMH and 2S LiPo battery packs
- Adjustable heavy duty 3.5mm turnbuckles and ball cups all around
- New front stadium truck CVA driveshafts
- Durable, longer low friction center belt and tension system for stadium truck
- Long arm stadium truck geometry
- New front caster block for stadium truck
- Updated rear bulkhead and chassis stiffener
- Carbon fiber rear transmission brace
- HD Metric Ball Studs throughout
- One piece stadium truck wheels all around
- Race Proven V2 Slipper Clutch System
- 4wd specific worlds style bell crank system

:: Additional

Your new RC10T 4WD Kit comes as a kit. There are some items you will need to complete your kit (refer to website for suggestions):

- R/C two channel surface frequency radio system
- Electronic Speed Control (ESC)
- Steering Servo
- 2S, 7.4V Lipo stick battery or 7.2V NiMH battery
- 2mm Hex Driver (AE #1501)
- Thread Lock (AE #1596)
- Pinion gear, size to be determined by type and wind of motor you use
- R/C Electric Motor
- Peak detection battery charger
- 5.5mm Hex Driver (AE #1507)
- Polycarbonate specific paint

Tools included:

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

:: Other Helpful Items

- Silicone Shock Fluid (Refer to website for complete listings)
- Tire Adhesive (AE #1697)
- Shock Pliers (AE #1681)
- Wire Cutters / Hobby Knife
- Body Scissors (AE #1737)
- Green Slime shock lube (AE #1105)
- Needle Nose Pliers
- Reamer / Hole Punch (AE #1499)
- Calipers or a Precision Ruler
- Soldering Iron

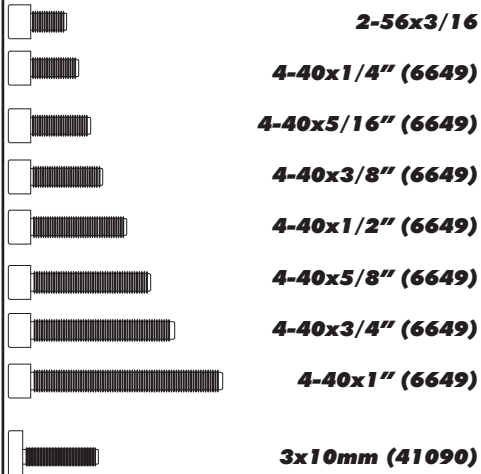
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630



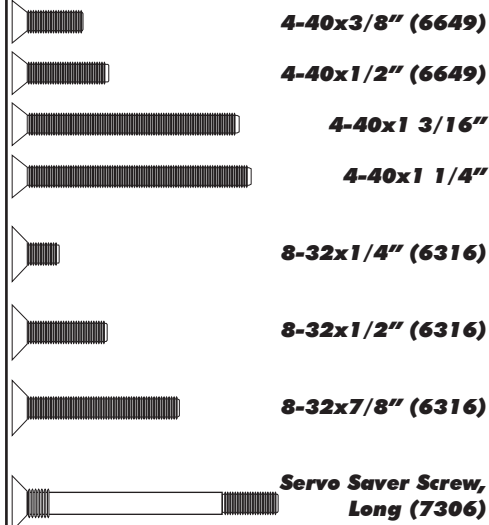
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

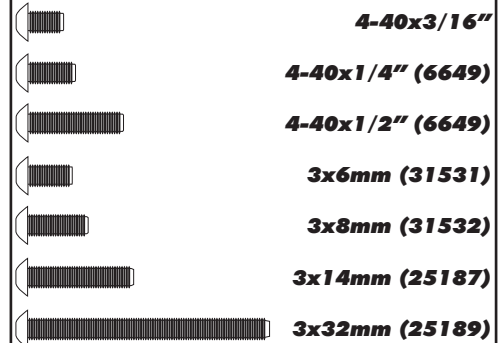
Cap Head (shcs)



Flat Head (fhcs)



Button Head (bhcs)



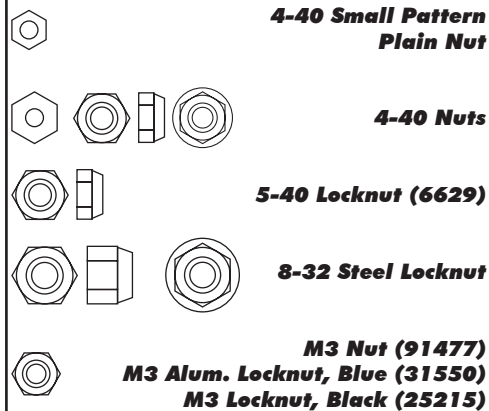
Clips



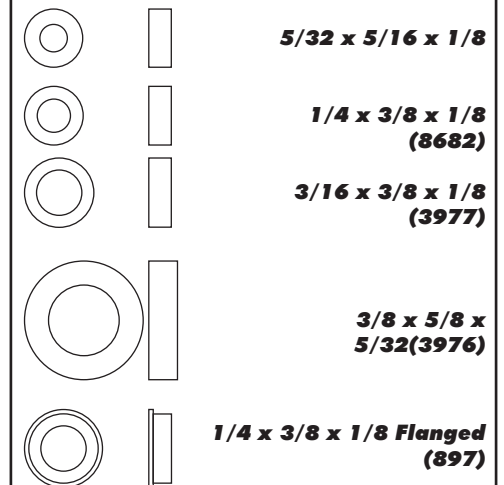
Shims and Washers



Nuts (lock/plain)



Bearings



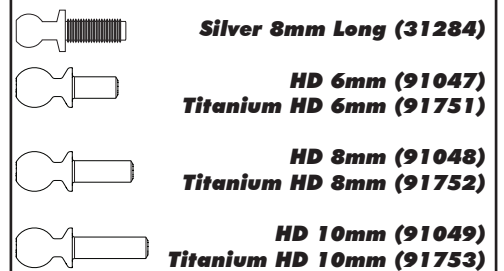
Set Screws



Diff Balls



Ballstuds



Notes:

:: Table of Contents

1..... Cover	14.....Rear Suspension Build (Bag E)
2..... Introduction	15.....Turnbuckles Build (Bag F)
3.....1:1 Hardware "Fold Out"	16.....Bumper, Body Mounts, Front Brace Tubes Build (Bag G)
4..... Table of Contents	17.....Shocks Build (Bag H)
5.....Nose Plate / Steering Build (Bag A) (Bag F)	19.....Chassis Build (Bag I)
6..... Differential Build (Bag B)	20.....Servo/Chassis Stiffeners Build (Bag J)
7.....Front Transmission Build (Bag B)	21.....Wheels, Tires and Body Install (Bag K)
8.....Rear Transmission Build (Bag B)	23.....Body
9.....Front Suspension Build (Bag C)	24.....Setup Sheets
12.....Rear Bulkhead Build (Bag D)	26.....Back Cover

:: 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

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

7307
RC10GT
nose plate,
gold

6530
RC10 4WD
chassis,
gold

*NOT INCLUDED

#1596
thread lock

7306
8-32 x 1/4"
steel
FHCS

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

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

91047 $\Sigma 4$
HD ballstud,
6mm

31284
Ballstud
8mm

6534 $\Sigma 2$
RC10 4WD
bellcrank
bushing

6534 $\Sigma 2$
RC10 4WD
bellcrank
shim

6534
RC10 4WD
steering
bellcrank,
idler

6534
RC10 4WD
steering
bellcrank,
input

897 $\Sigma 4$
Flanged bearing,
1/4" x 3/8" x 1/8"

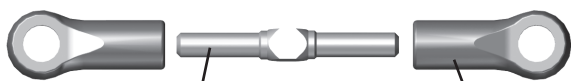
:: Nose Plate / Steering Build - Bag F - Step 3



The steering rack
turnbuckle parts are
in bag F.



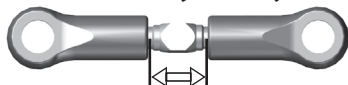
Note the direction
of the ball cups!



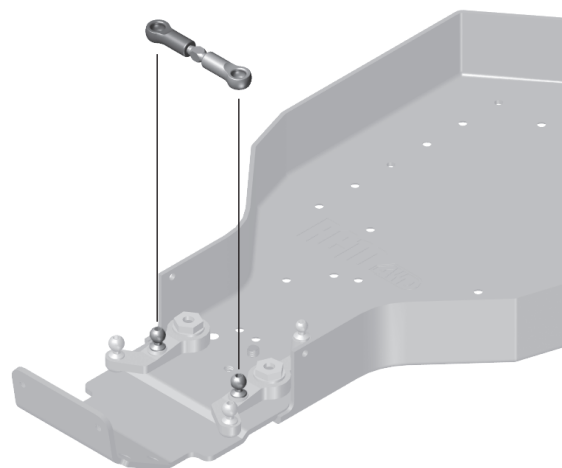
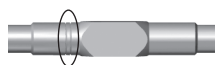
6547
RC10 4WD
turnbuckle,
3.5mm x 27mm

6535 $\Sigma 2$
RC10 4WD
ball cups,
3.5mm

Steering Rack Turnbuckle
0.31" (8mm)

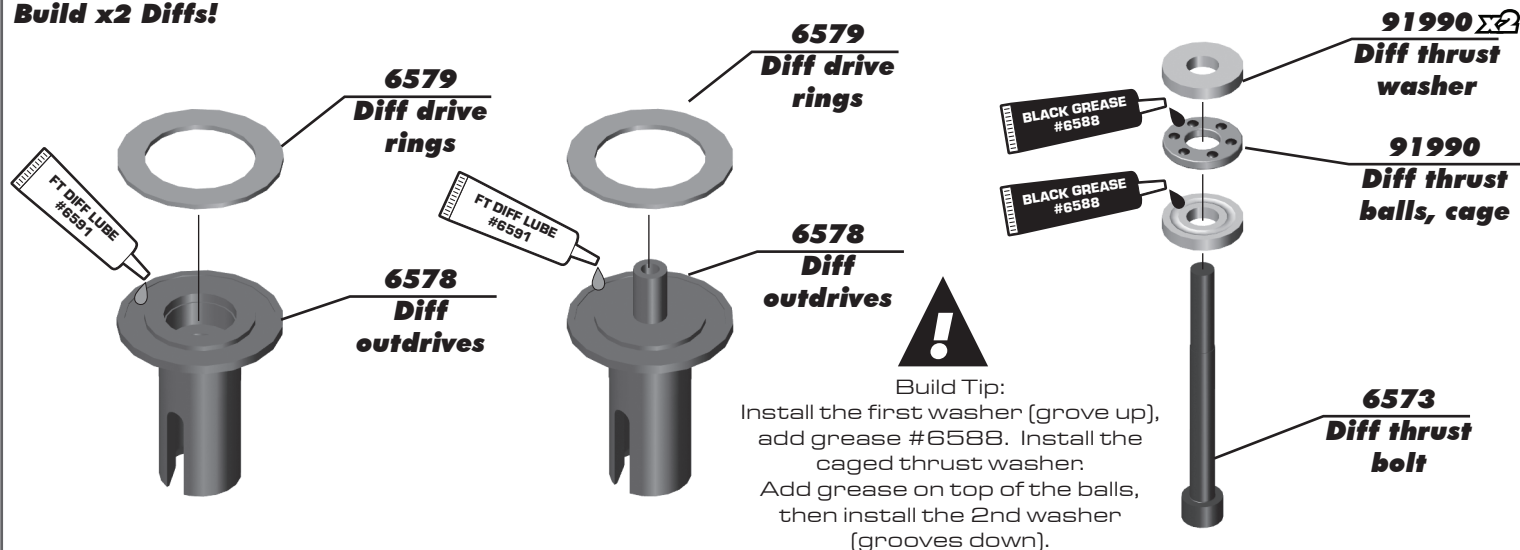


Orient the notch
to the left
throughout the
car. It indicates
which end has the
left hand threads!

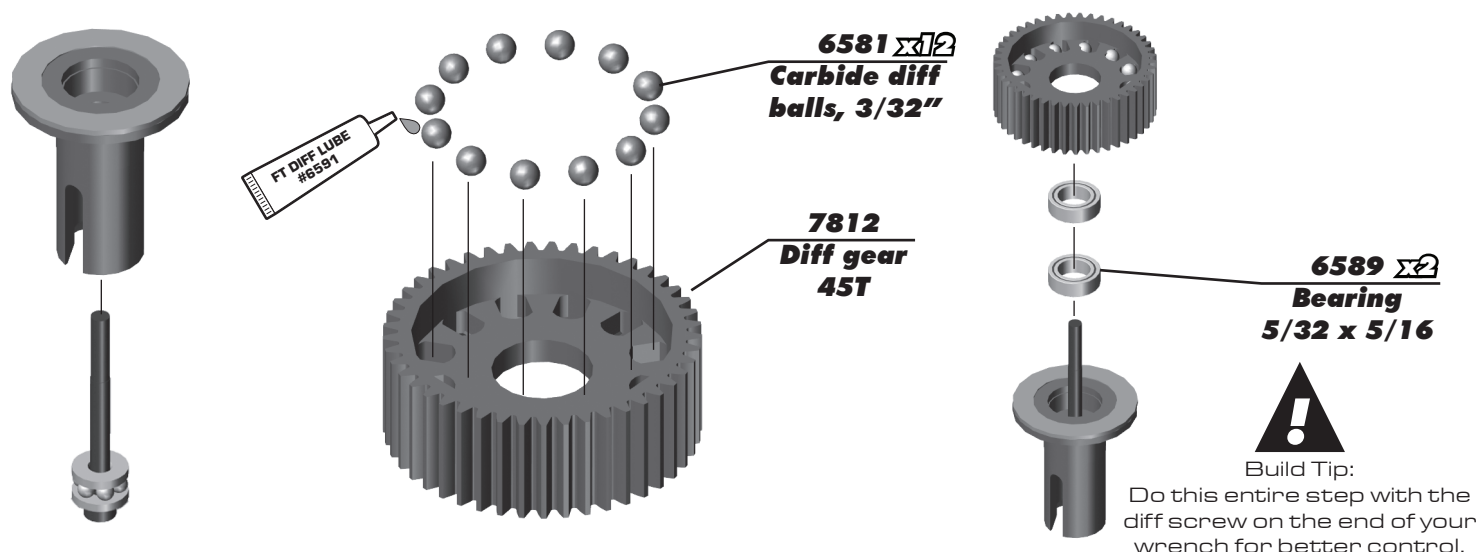


:: Differential Build - Bag B - Step 1

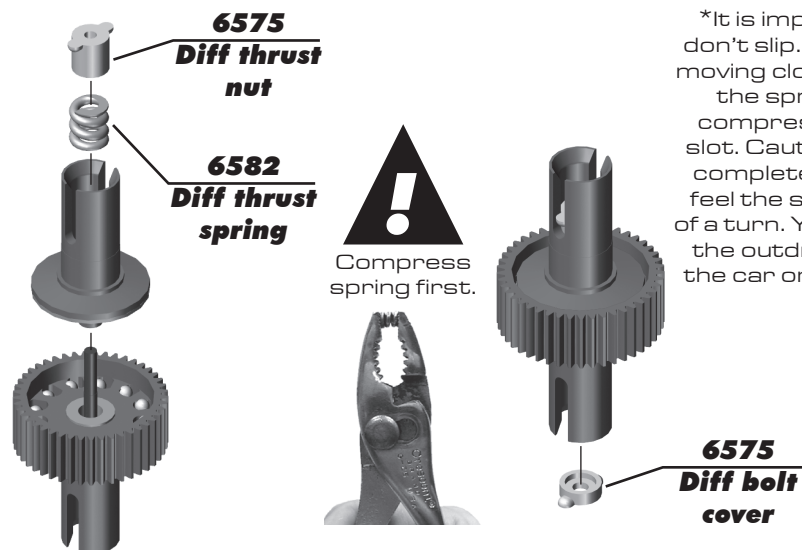
Build x2 Diffs!



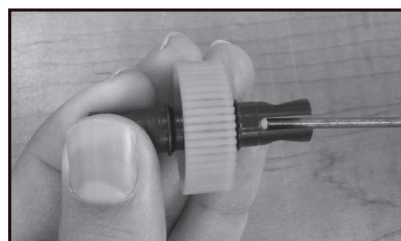
:: Differential Build - Bag B - Step 2



:: Differential Build - Bag B - Step 3



*It is important to tighten your RC 10 4WD Ball diffs x2 so they don't slip. 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 same 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 1/4" of a turn. Your diff should now operate smoothly with resistance as the outdrives move in opposite directions. After you have driven the car once, recheck the diff settings as they may loosen up with a new differential system.



:: Differential Build - Bag B - Step 4

Front diff settings and setup notes / tips:

When installing your Ball Differentials, make sure to install the Diff Bolt on the same side as the Top Shaft End.

- Front Diff: Diff Bolt should be on the Driver Side
- Rear Diff: Diff Bolt should be on the Passenger Side

Tighter Front Diff: Tighter front diff compared to the rear will give you more on power steering and off power stability.

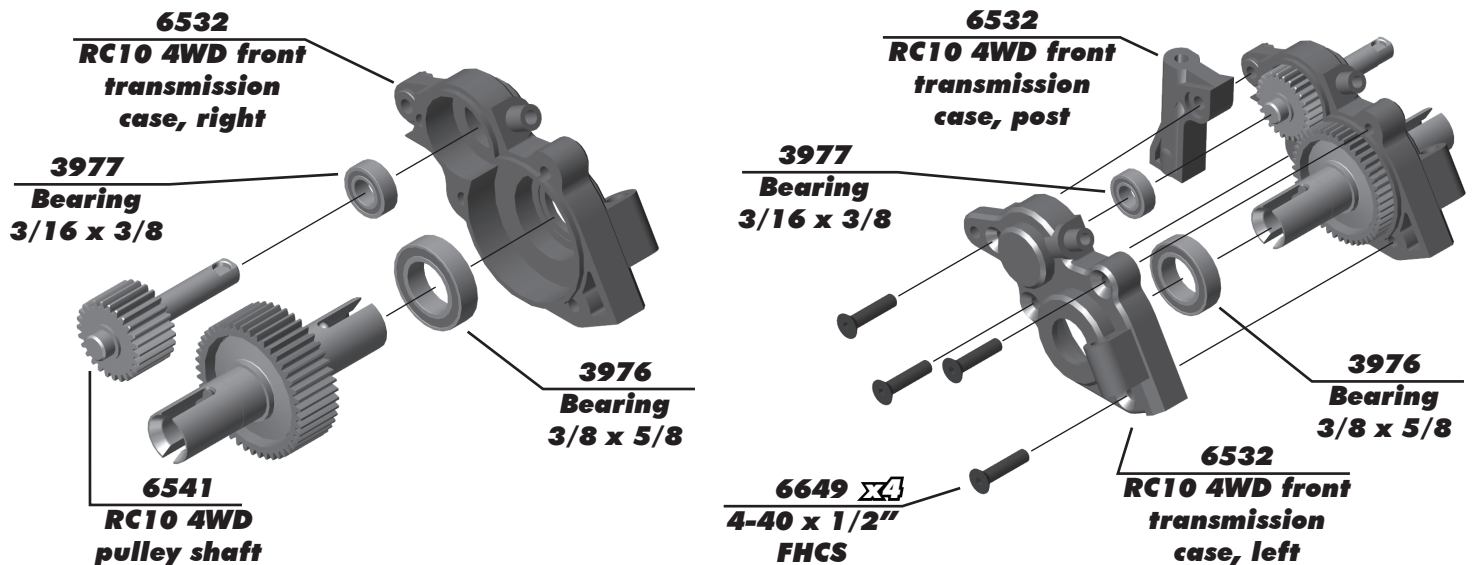
Looser Front Diff: Looser front diff compared to the rear will provide more off power steering and on power stability.

Rear diff settings and setup notes / tips:

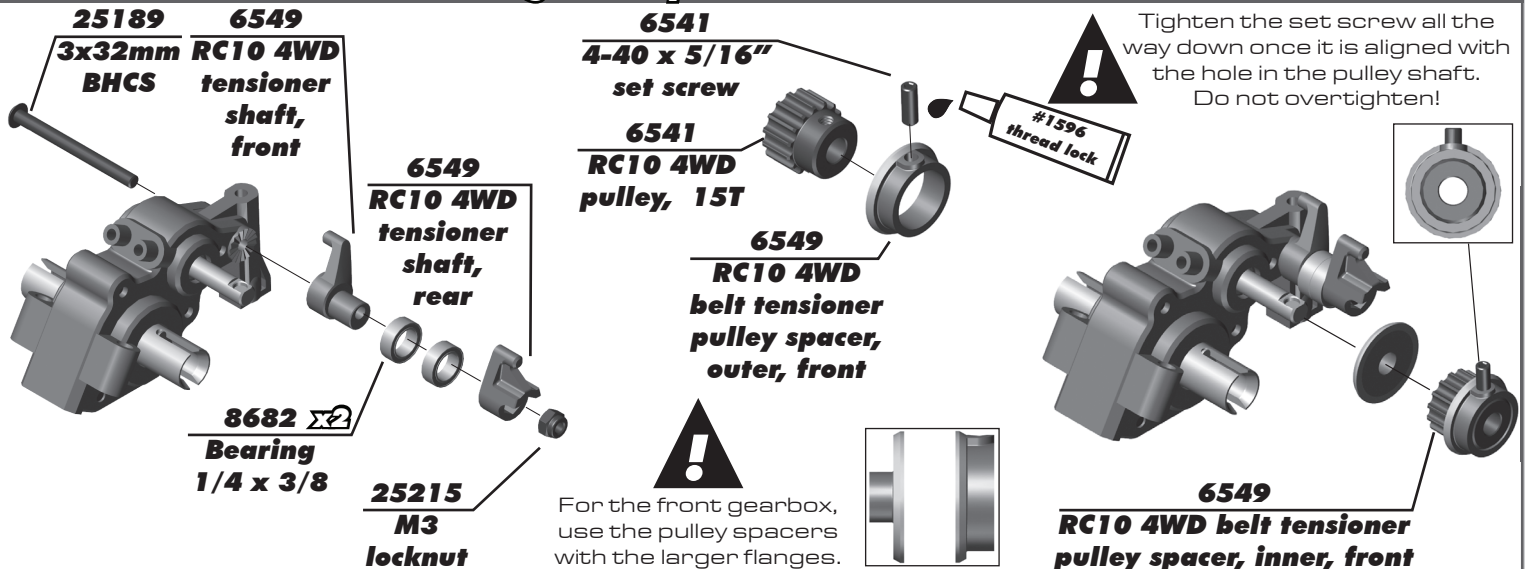
Tighter Rear Diff: Tighter rear diff compared to the front will provide more rear end stability.

Looser Rear Diff: Looser rear diff compared to the front will provide more off power corner speed and on power stability.

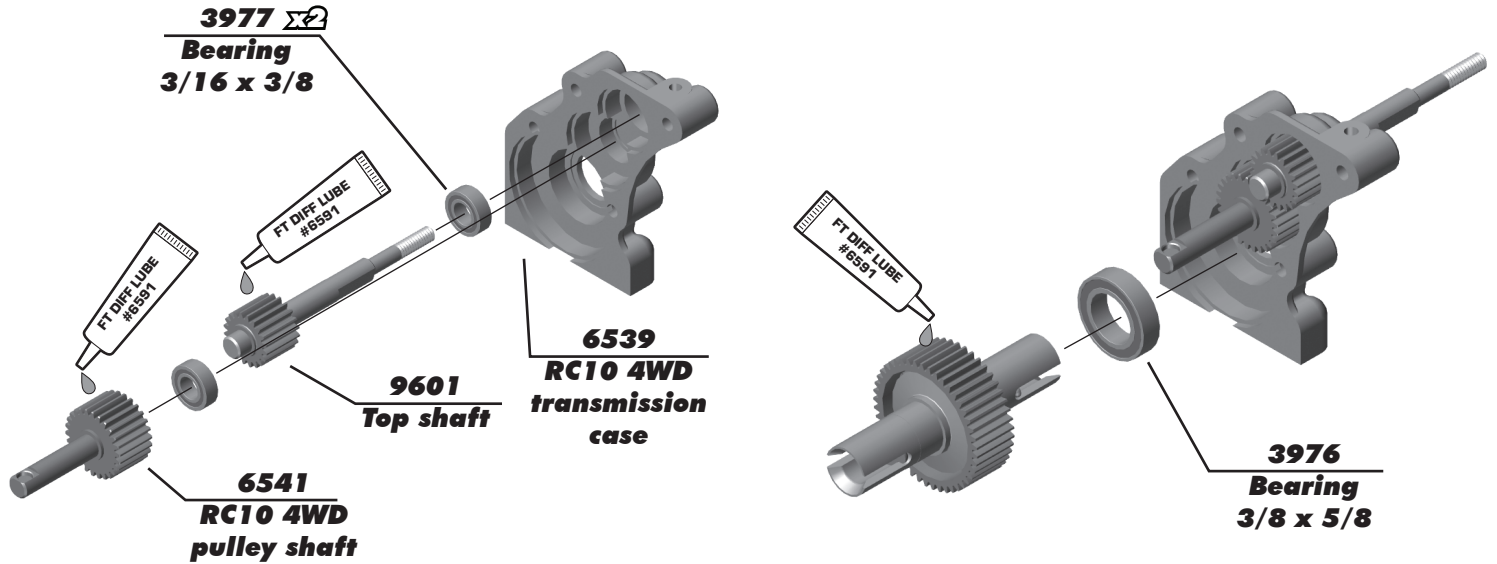
:: Front Transmission Build - Bag B - Step 1



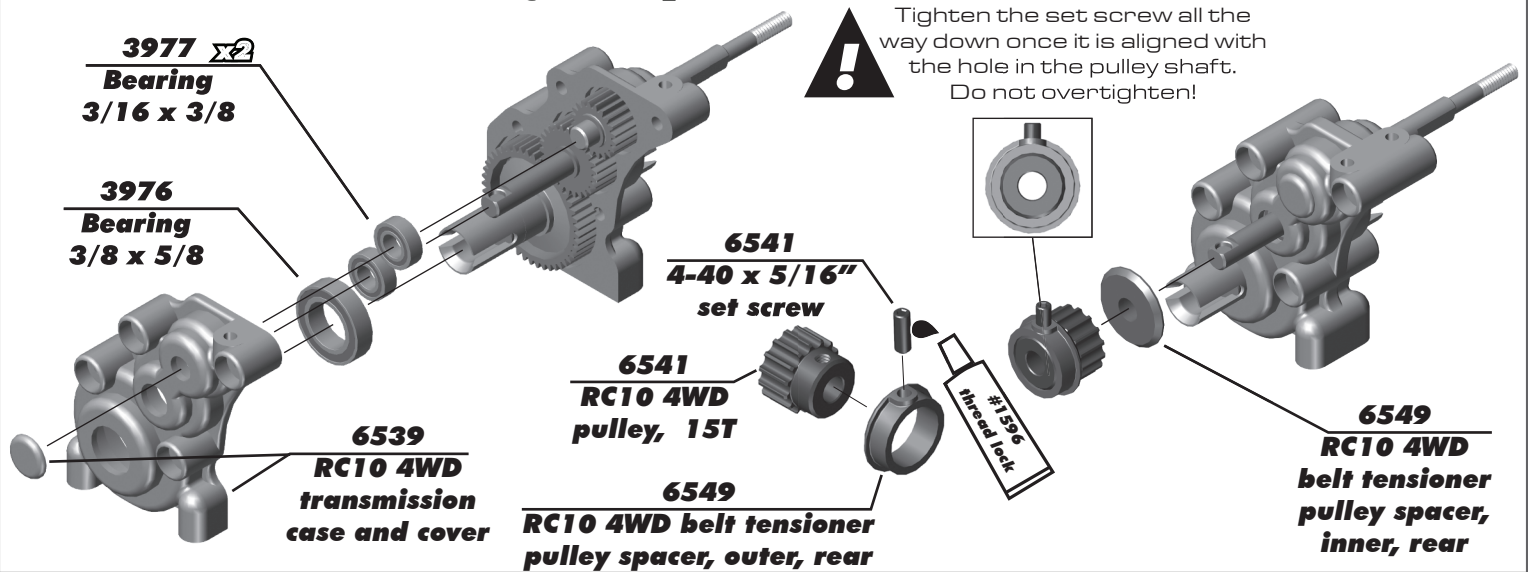
:: Front Transmission Build - Bag B - Step 2



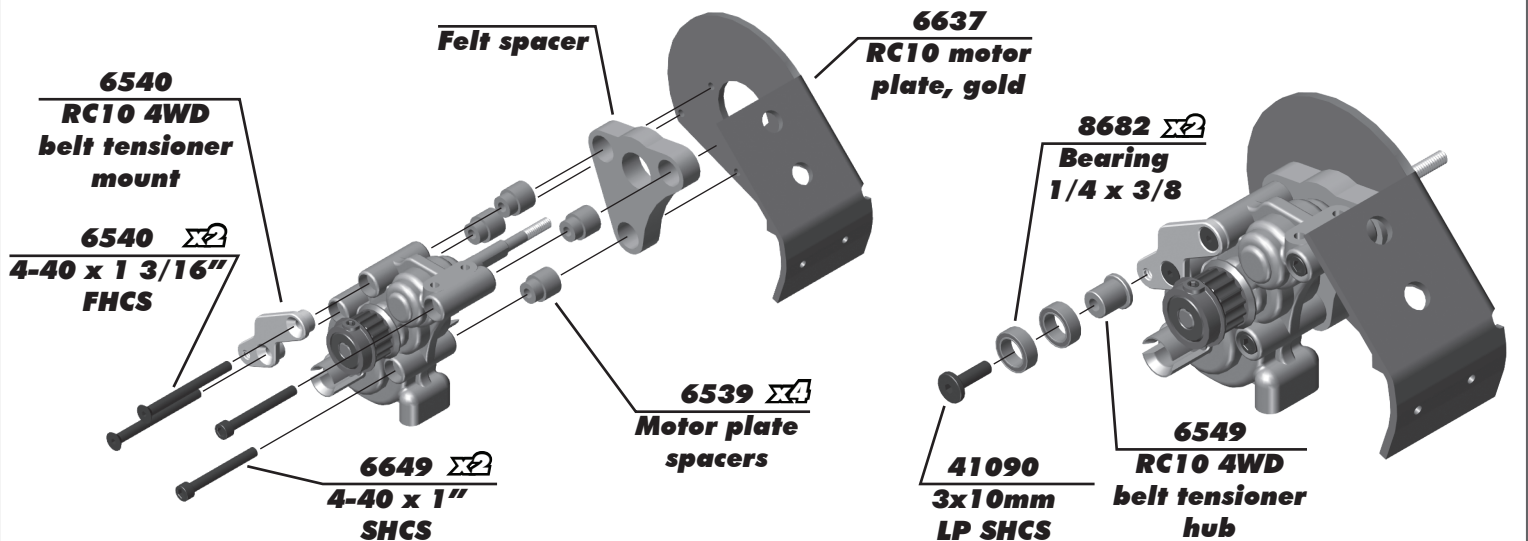
:: Rear Transmission Build - Bag B - Step 1



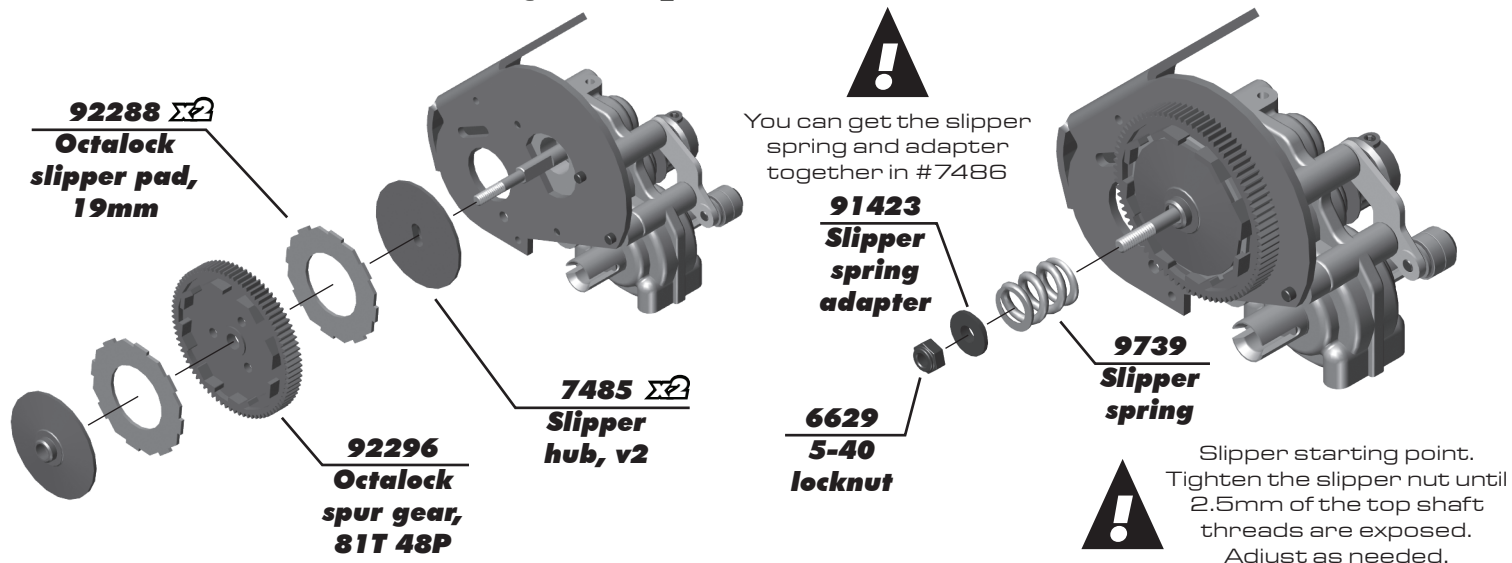
:: Rear Transmission Build - Bag B - Step 2



:: Rear Transmission Build - Bag B - Step 3



:: Rear Transmission Build - Bag B - Step 4



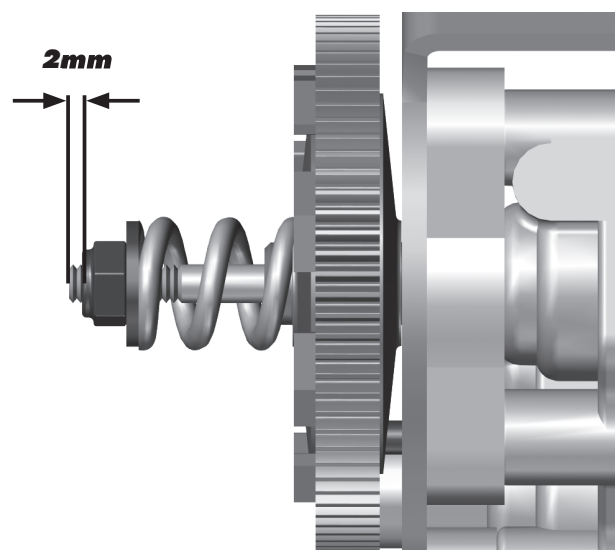
:: Rear Transmission Build - Bag B - Step 5

Slipper Clutch:
On high bite tracks:

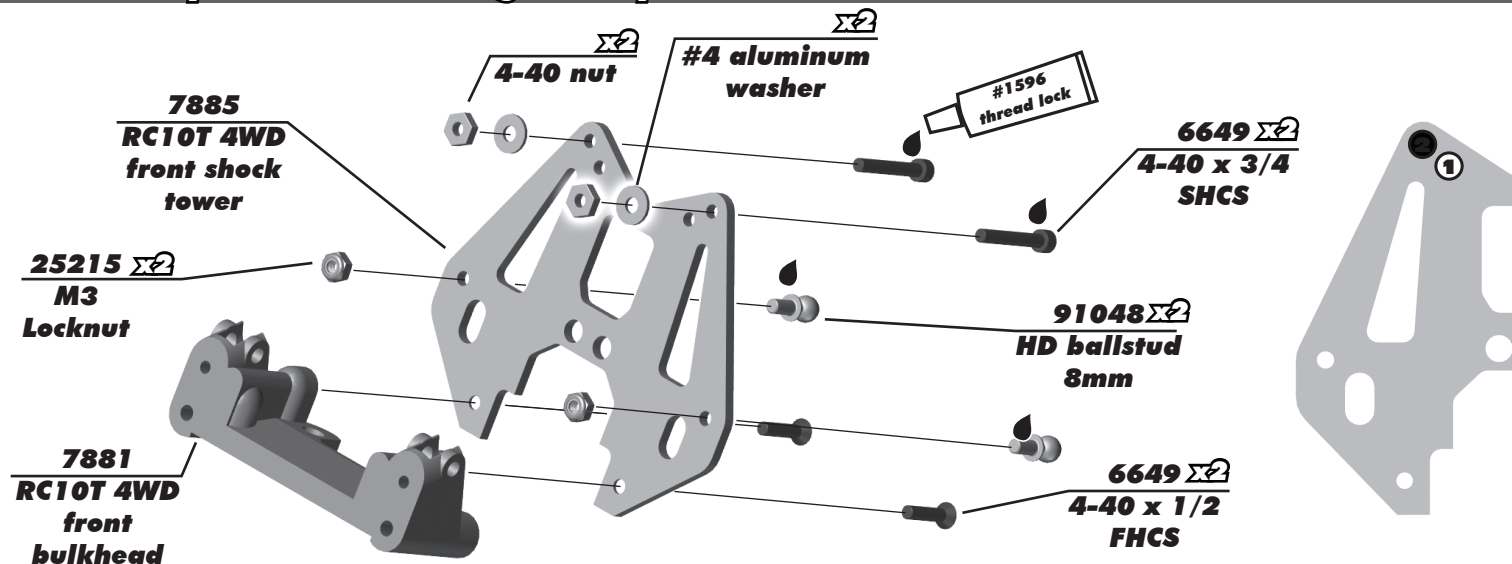
The slipper clutch setting is very important on higher bite tracks.

Without much wheel spin, The slipper clutch will need to be set properly to engage under heavy braking to prevent the belt from skipping. The belt is on the same rear top shaft as the slipper system. IF the slipper is set too tight, this can cause issues with belt management. Recommended slipper clutch setting on high bite tracks = 2mm threads showing.

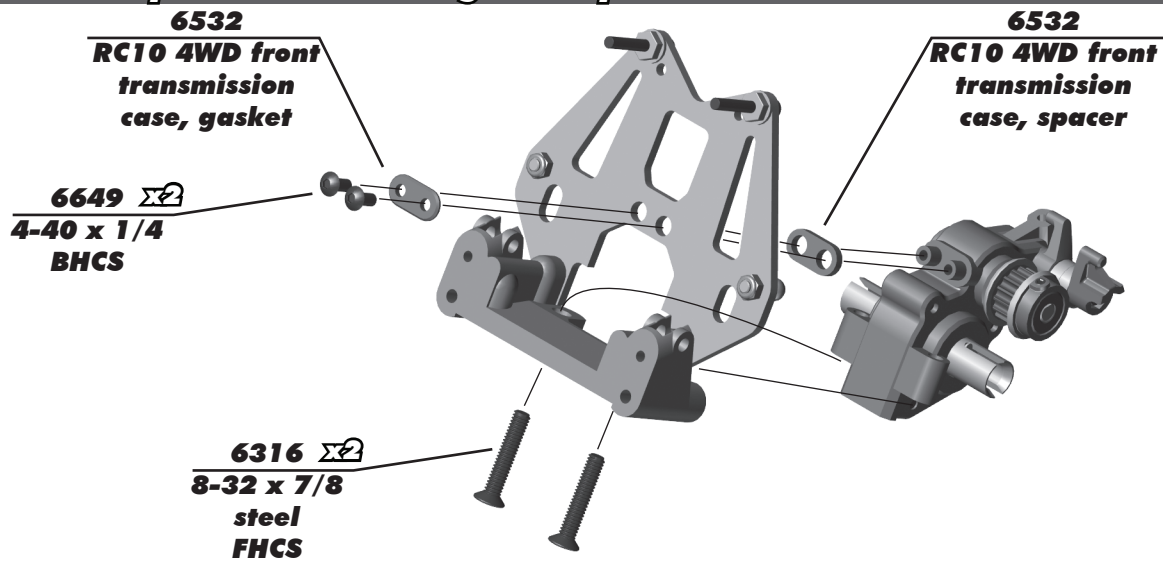
Caution: It is also recommended to set your esc brakes accordingly, too much brake can cause issues with the belt and slipper system.



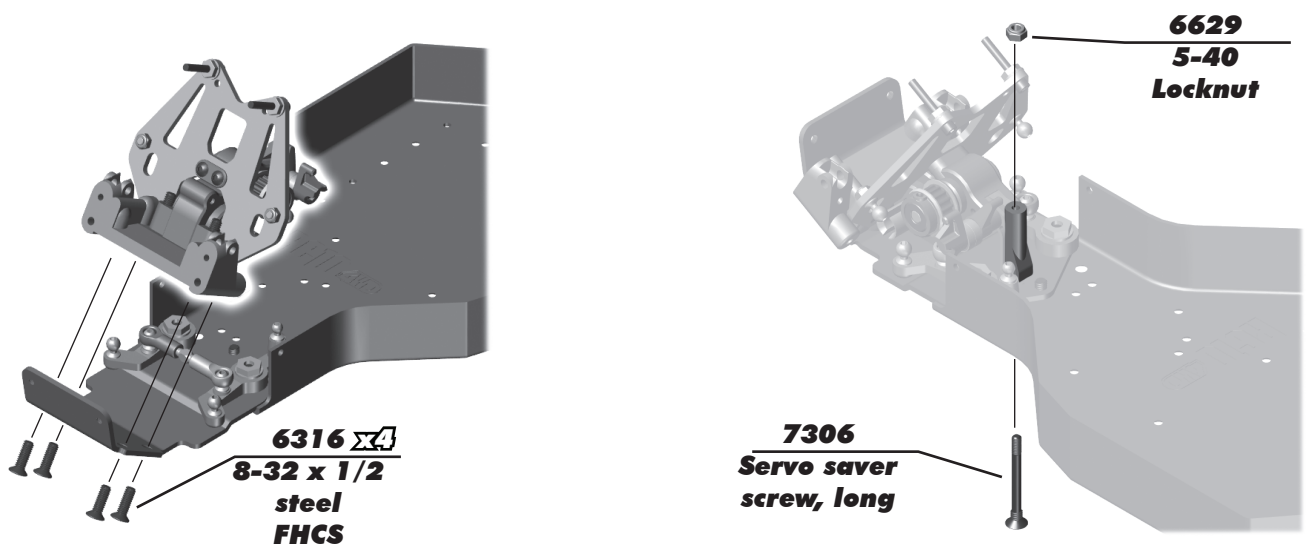
:: Front Suspension Build - Bag C - Step 1



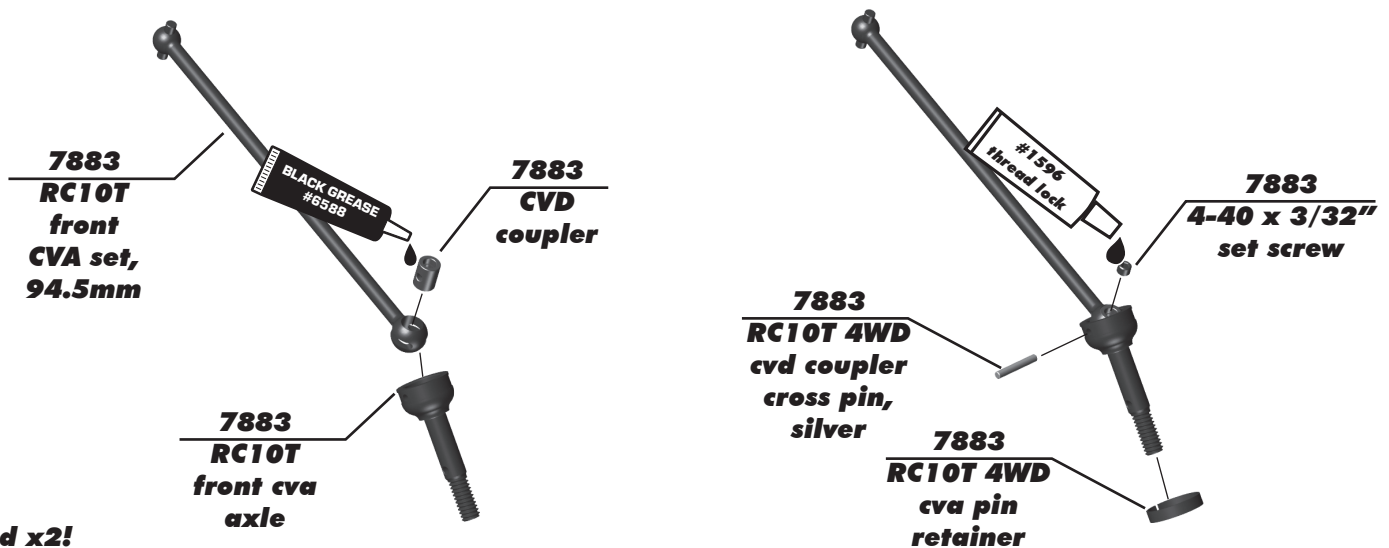
:: Front Suspension Build - Bag C - Step 2



:: Front Suspension Build - Bag C - Step 3

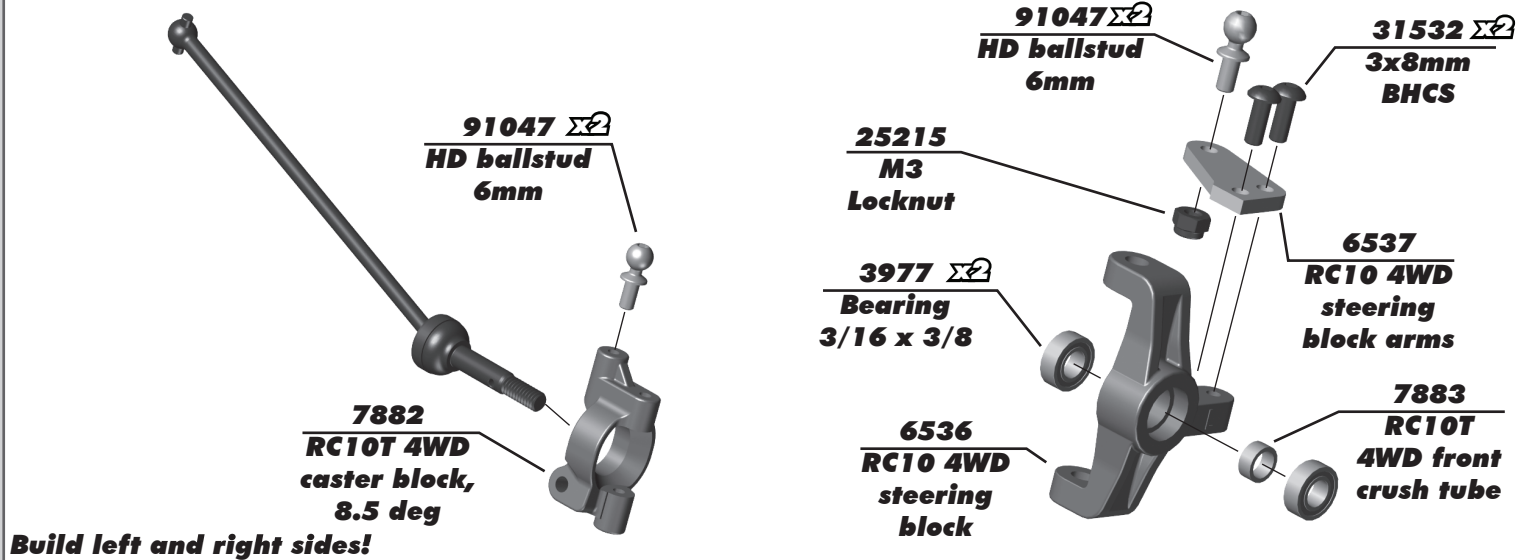


:: Front Suspension Build - Bag C - Step 4

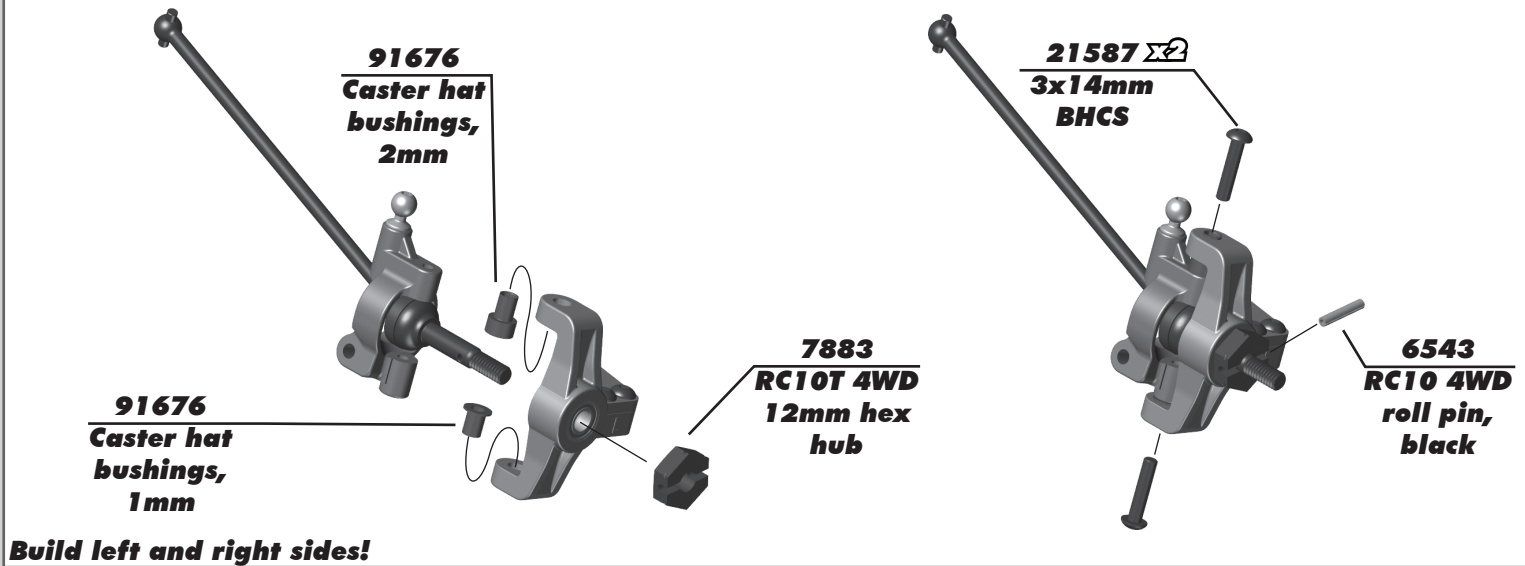


Build x2!

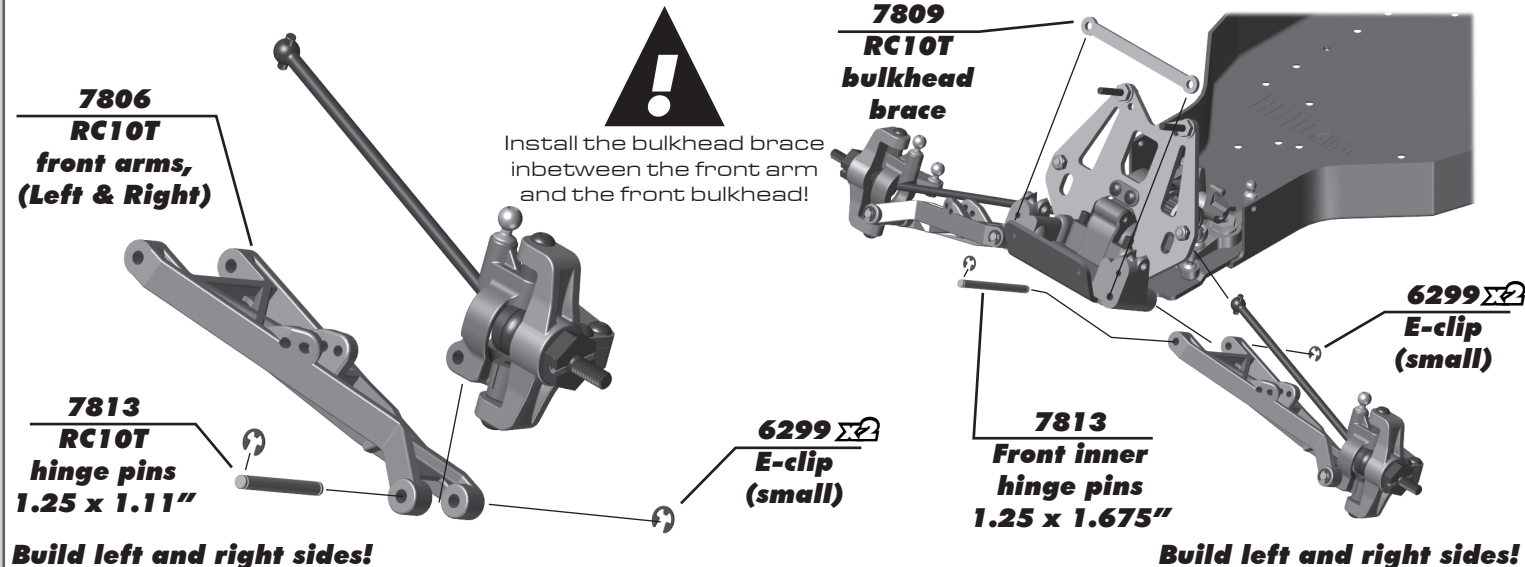
:: Front Suspension Build - Bag C - Step 5



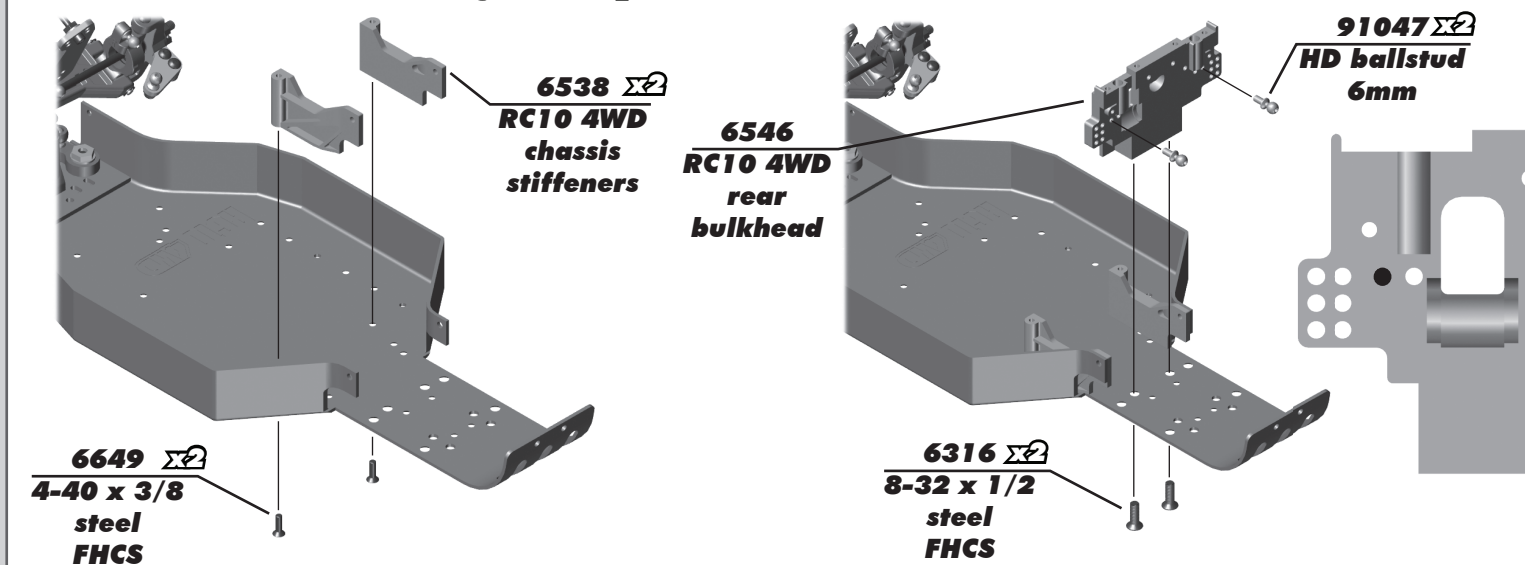
:: Front Suspension Build - Bag C - Step 6



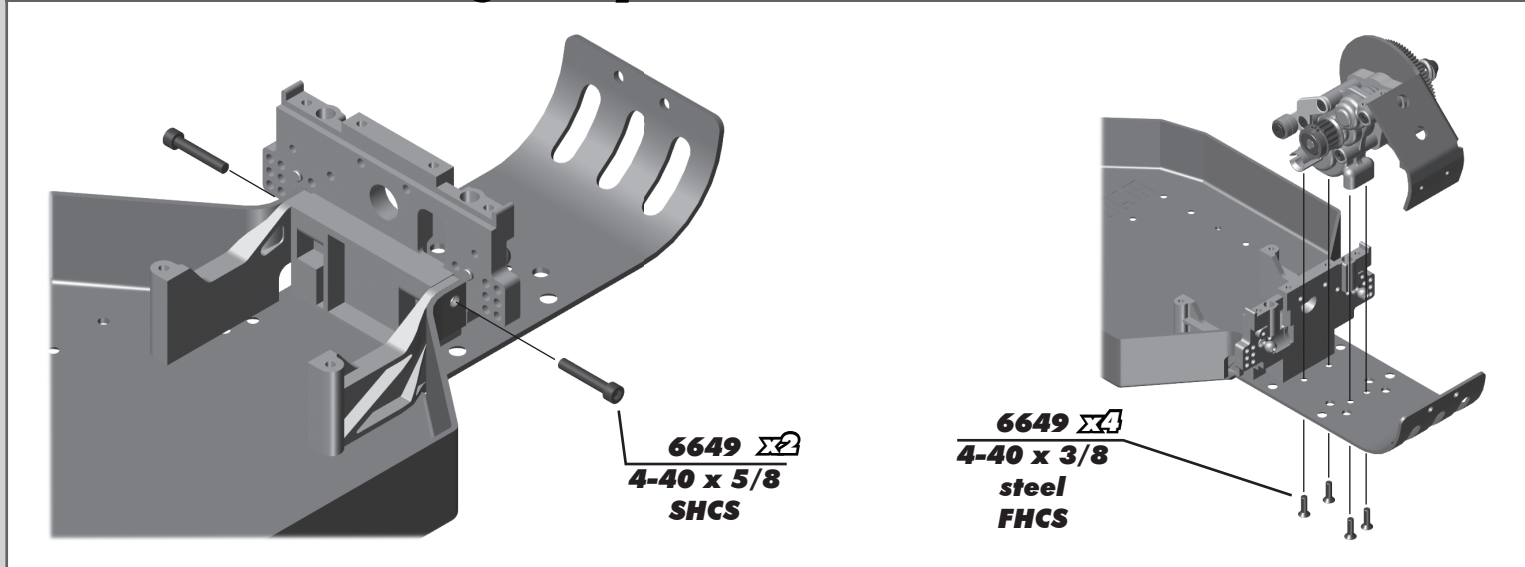
:: Front Suspension Build - Bag C - Step 7



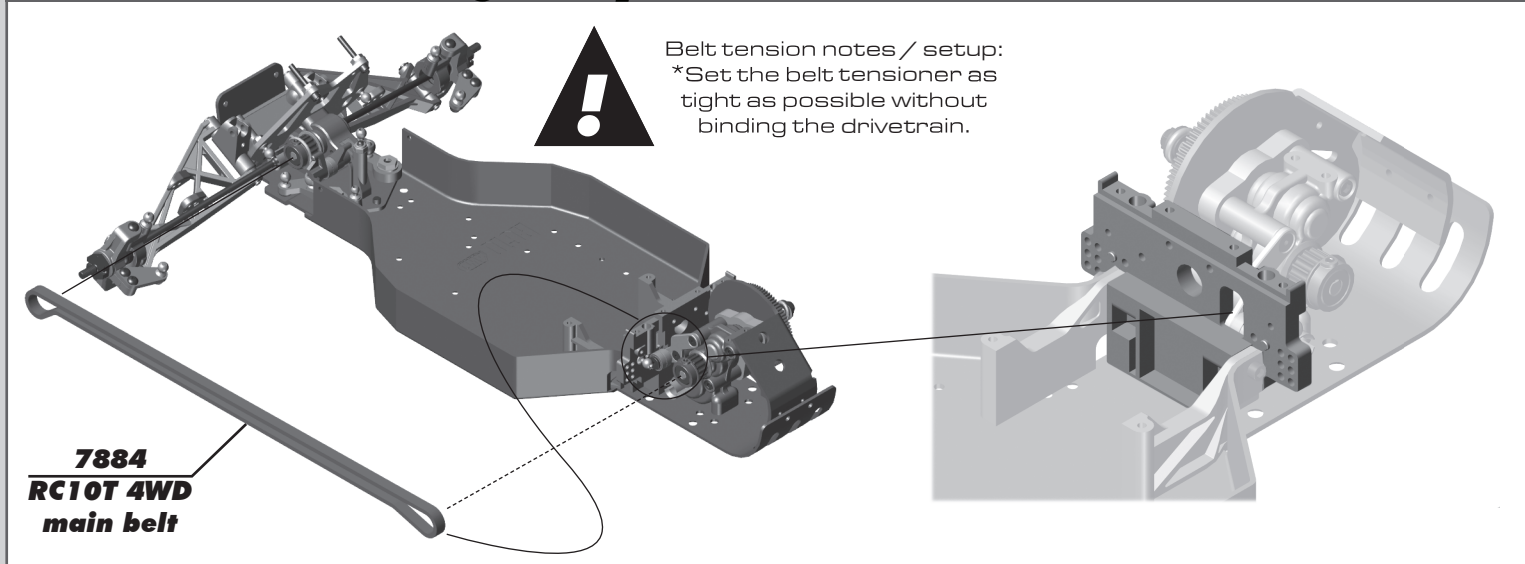
:: Rear Bulkhead Build - Bag D - Step 1



:: Rear Bulkhead Build - Bag D - Step 2



:: Rear Bulkhead Build - Bag D - Step 3



:: Rear Bulkhead Build - Bag D - Step 4

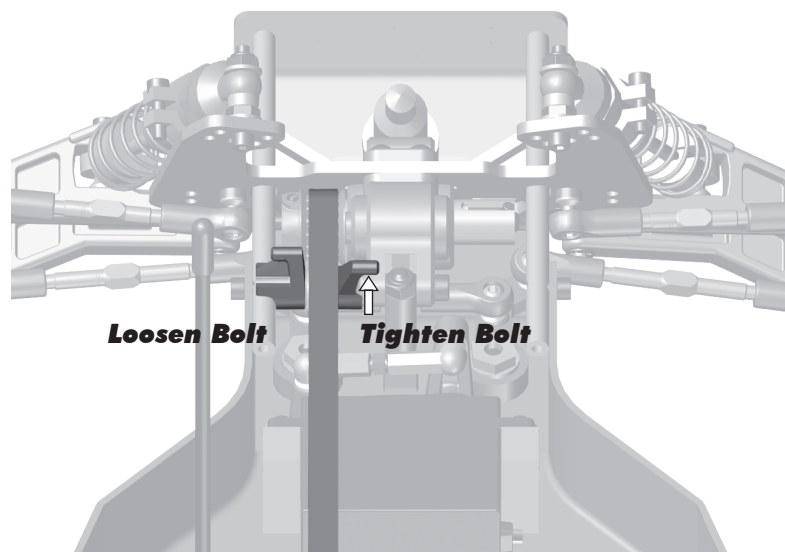


Belt Tensioner:

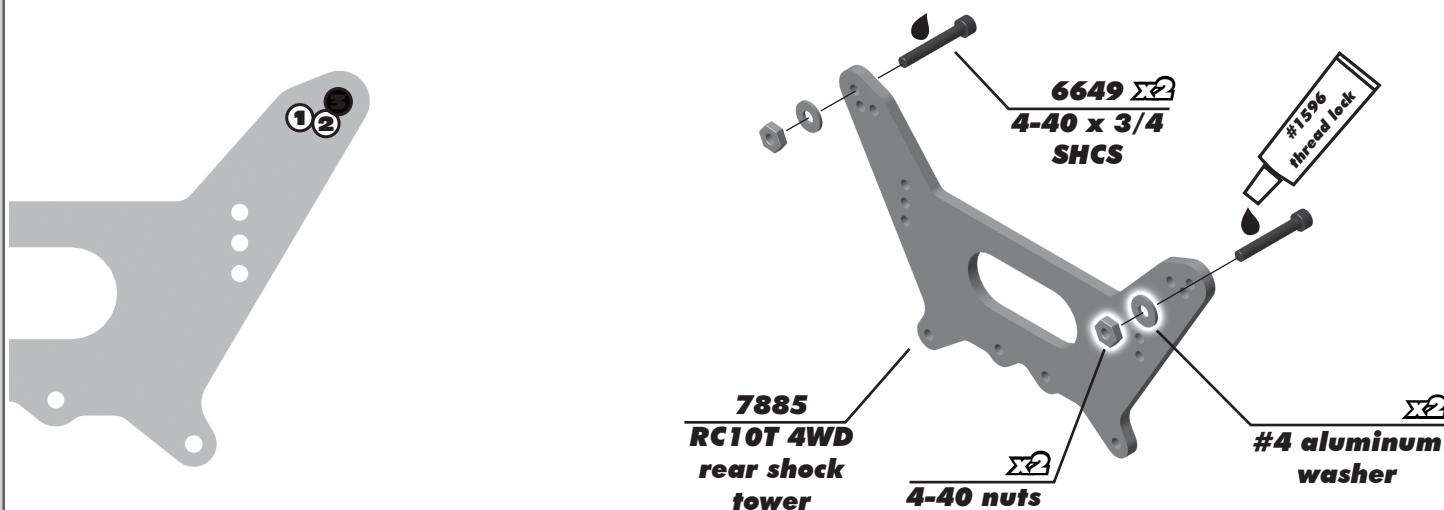
The belt tension is adjustable. The "inner" lever is the adjustment Lever. To tighten the belt, loosen the main bolt on the tension system and rotate the adjustment lever towards the front of the vehicle.

To loosen the belt, adjust the lever the opposite way towards the back of the vehicle. The inner lever keys into notches so one click at a time is recommended for adjustments.

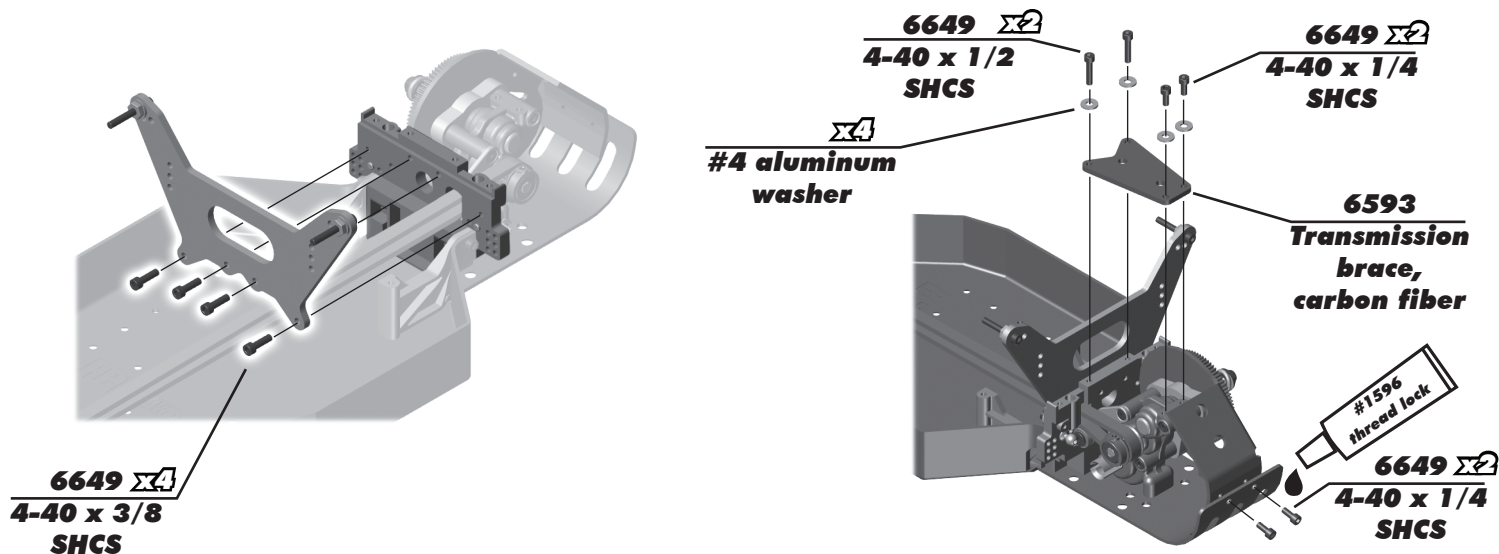
The outer lever is a guide for the belt. For a new car / belt, it is recommended to start around 12 O Clock on the adjustment lever. (Straight up and Down)



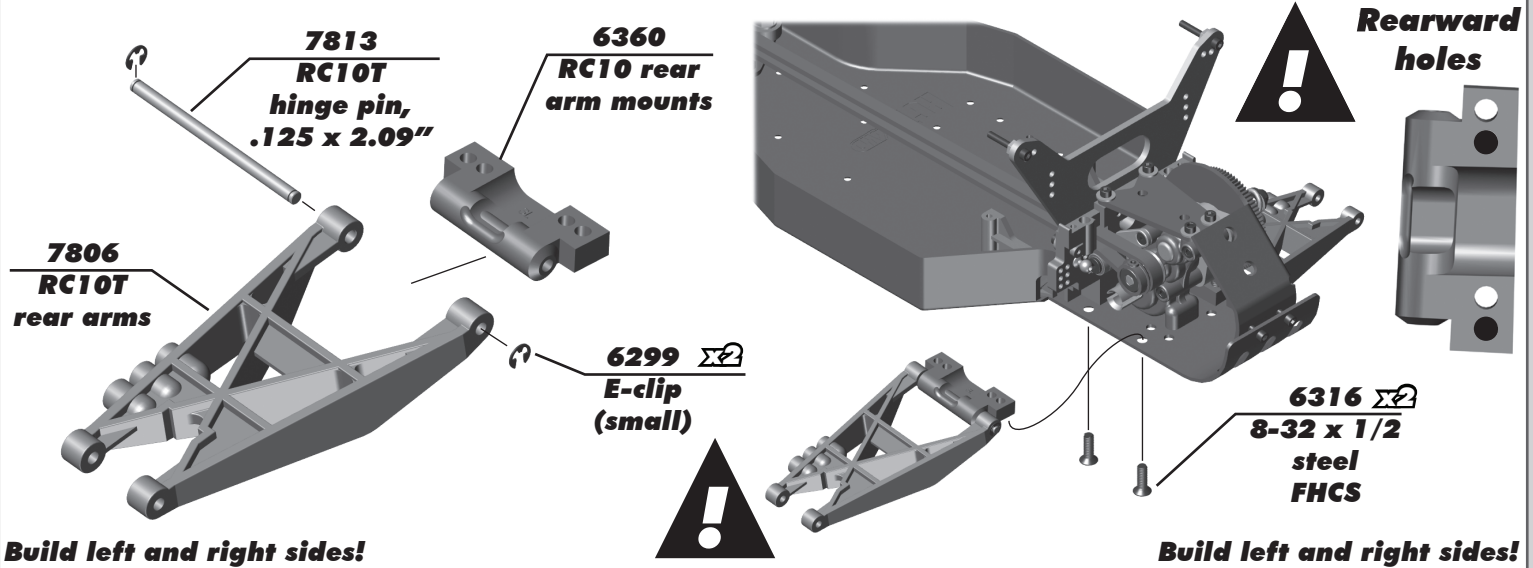
:: Rear Bulkhead Build - Bag D - Step 5



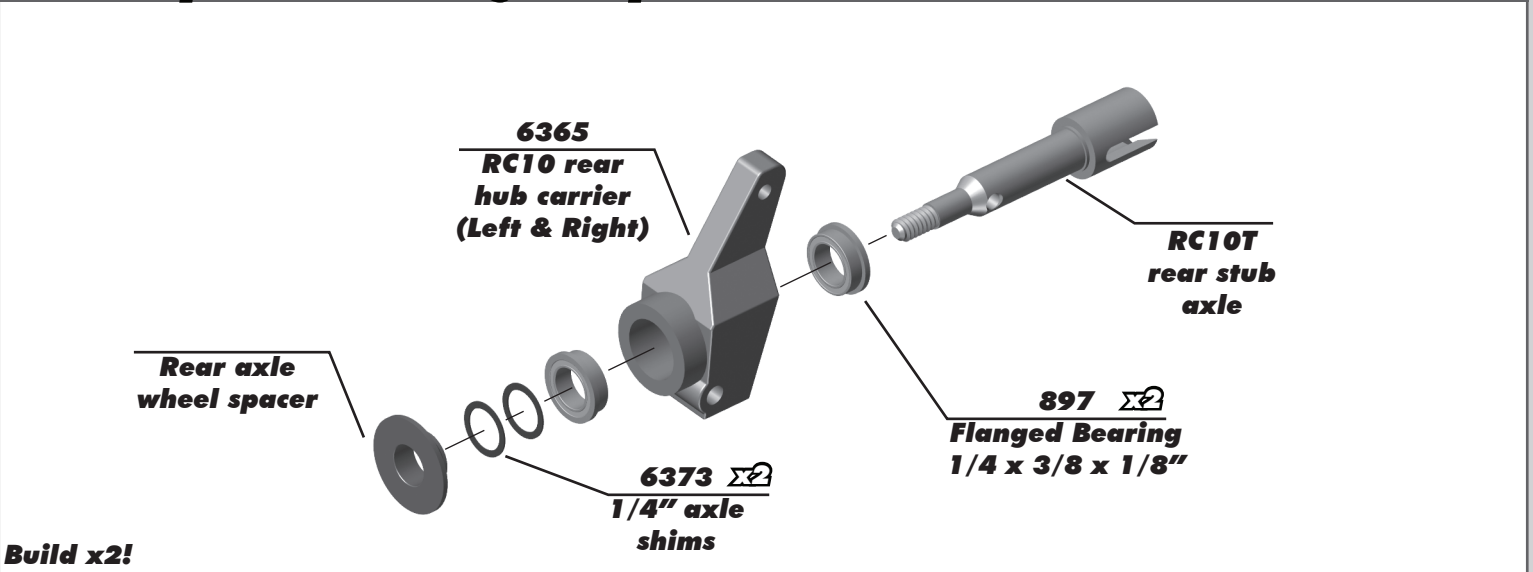
:: Rear Bulkhead Build - Bag D - Step 6



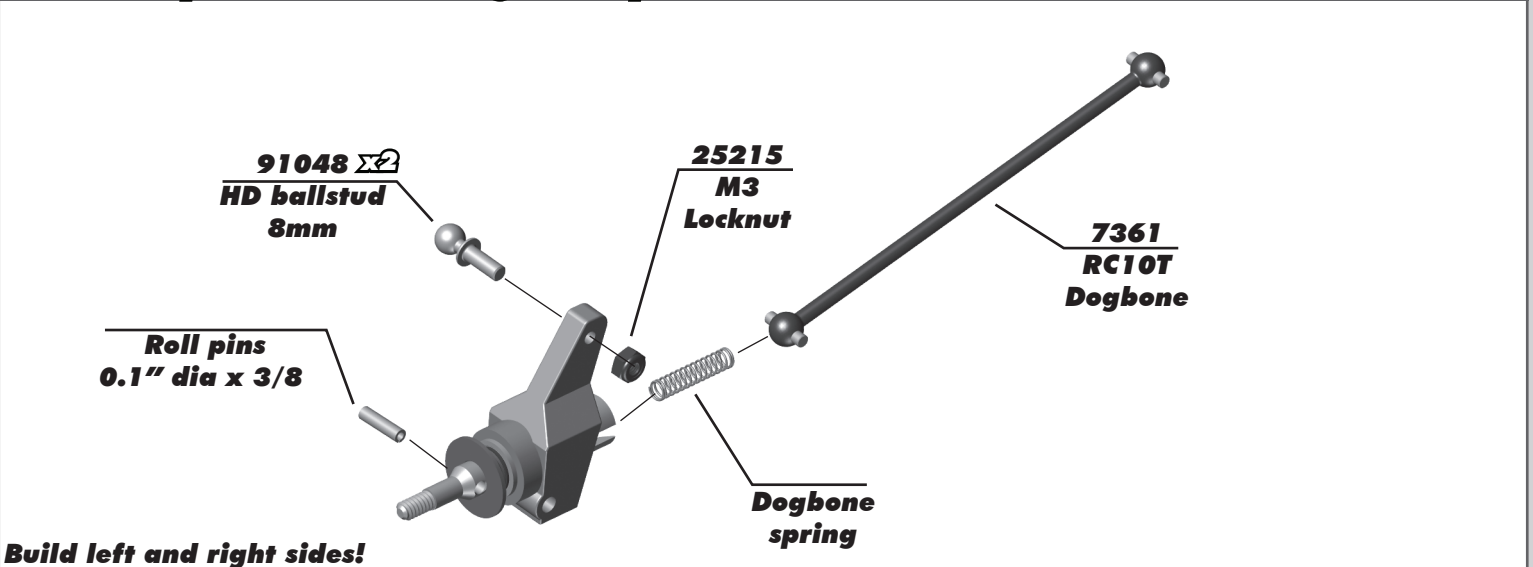
:: Rear Suspension Build - Bag E - Step 1



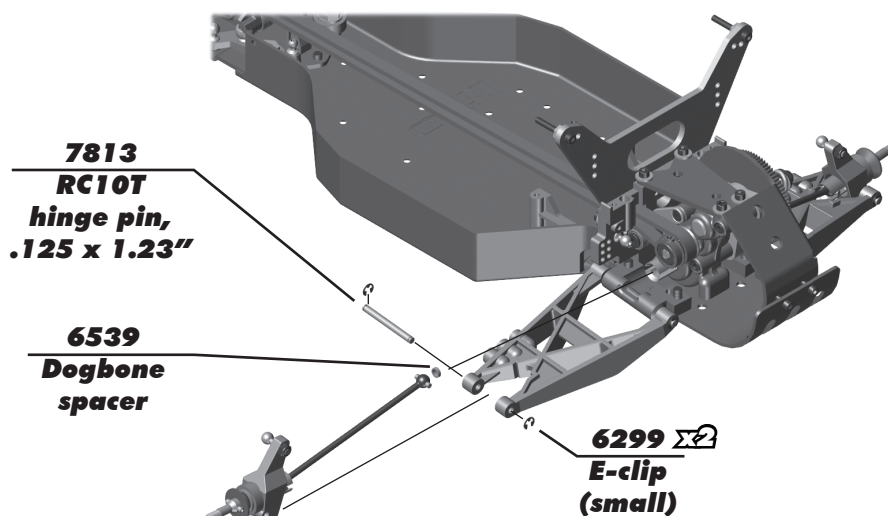
:: Rear Suspension Build - Bag E - Step 2



:: Rear Suspension Build - Bag E - Step 3

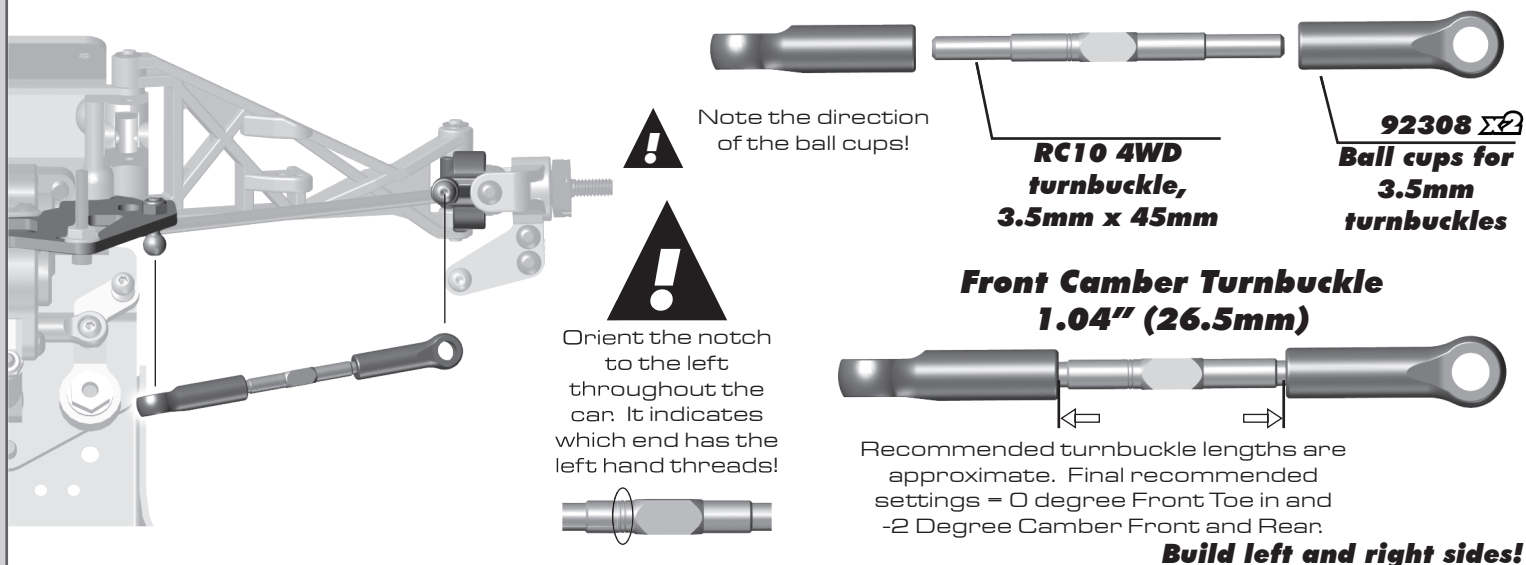


:: Rear Suspension Build - Bag E - Step 4

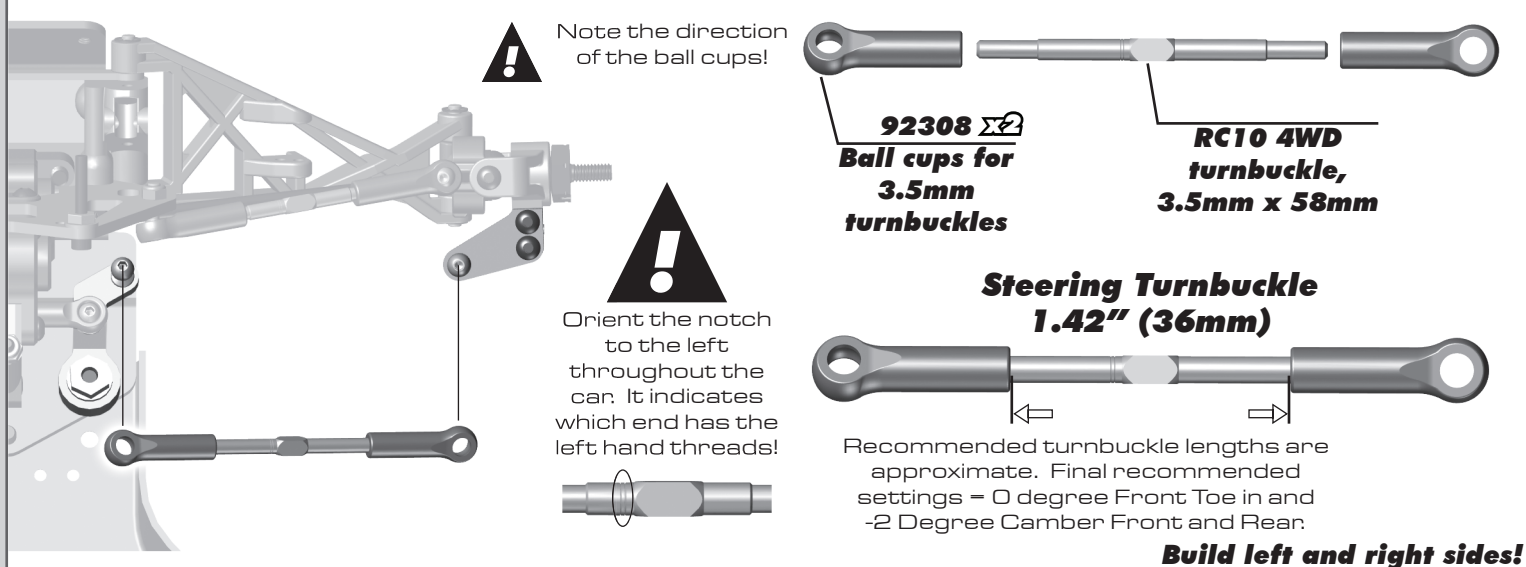


Build left and right sides!

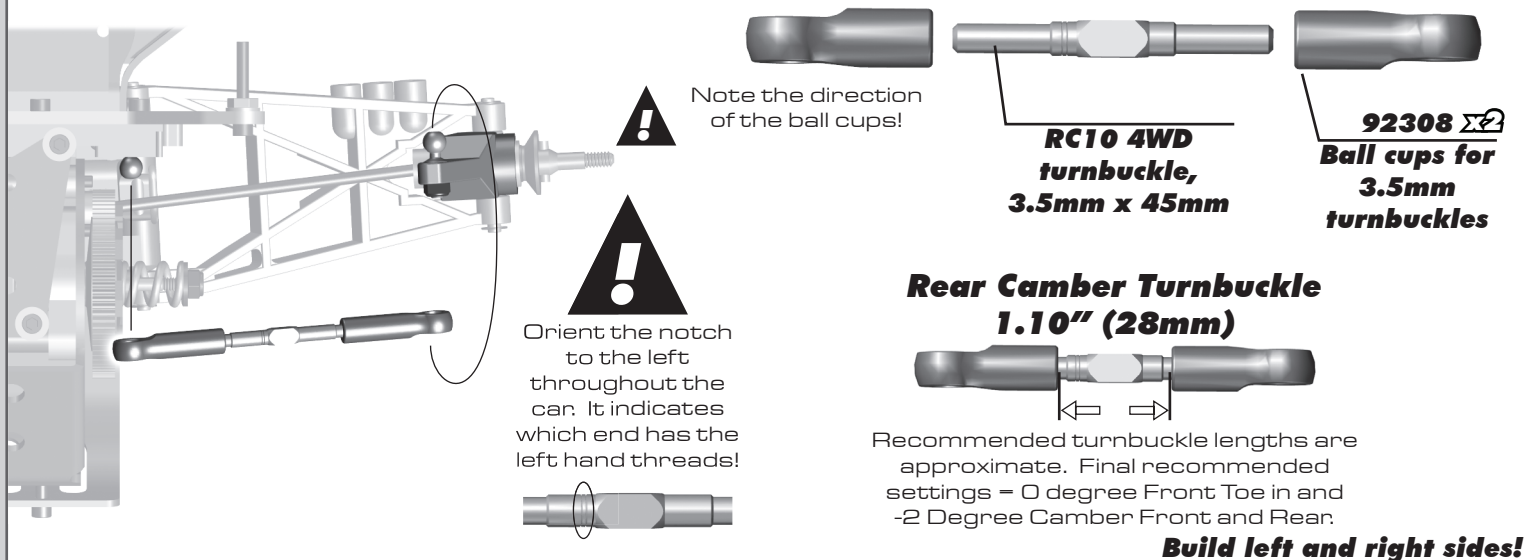
:: Turnbuckle Build - Bag F - Step 1



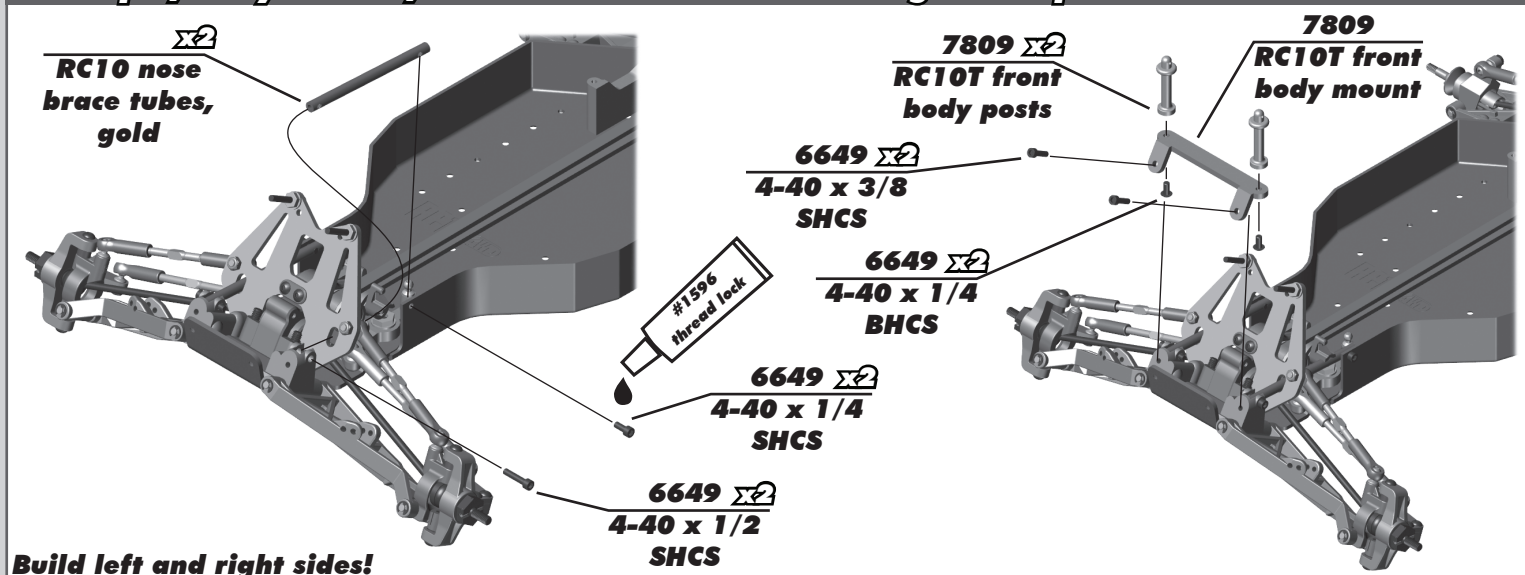
:: Turnbuckle Build - Bag F - Step 2



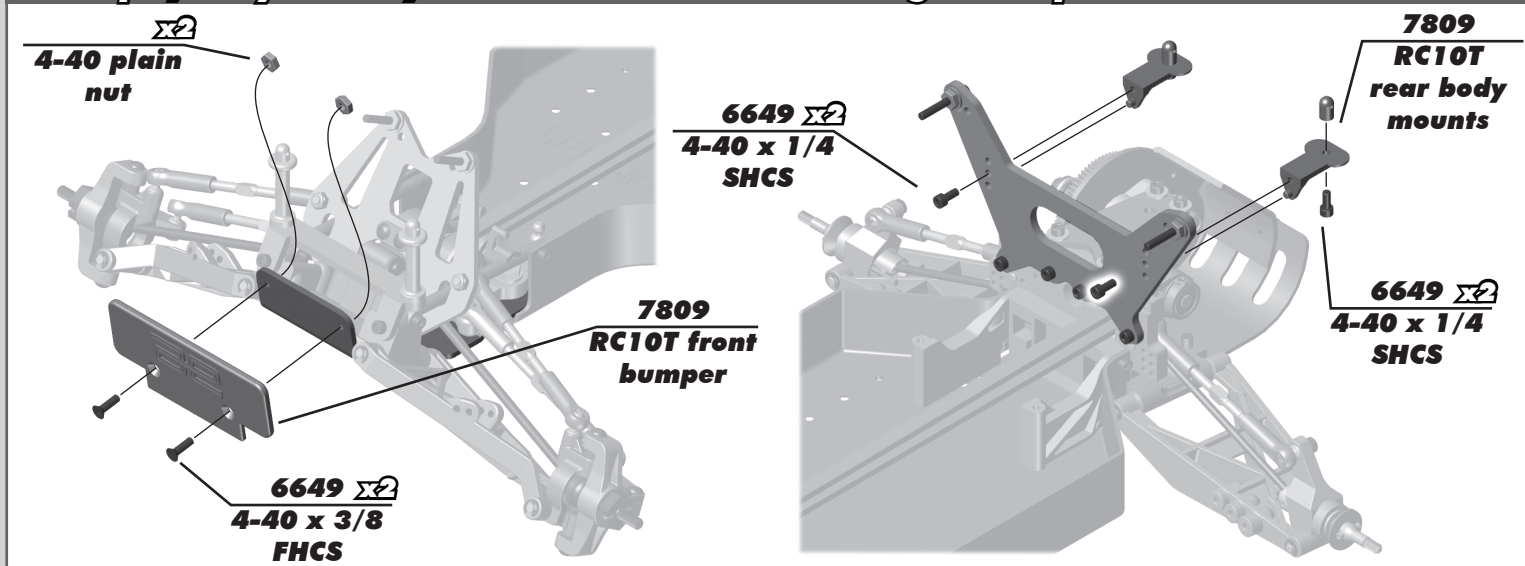
:: Turnbuckle Build - Bag F - Step 3



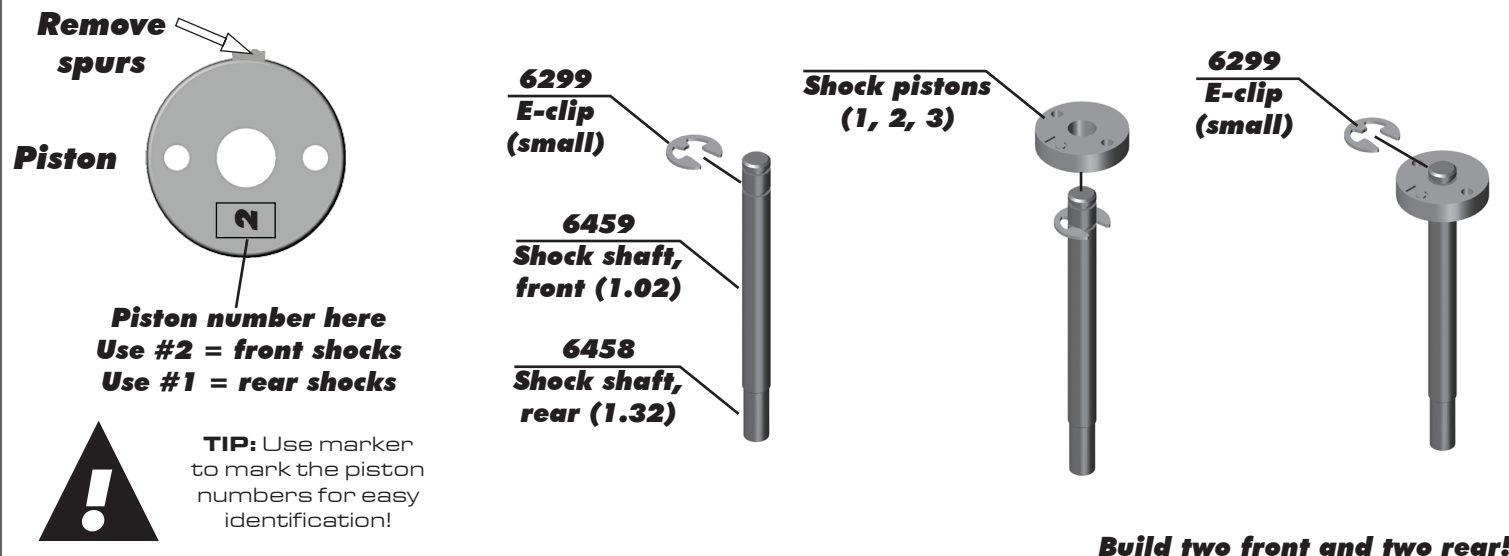
:: Bumper, Body Mounts, Front Brace Tubes Build - Bag G - Step 1



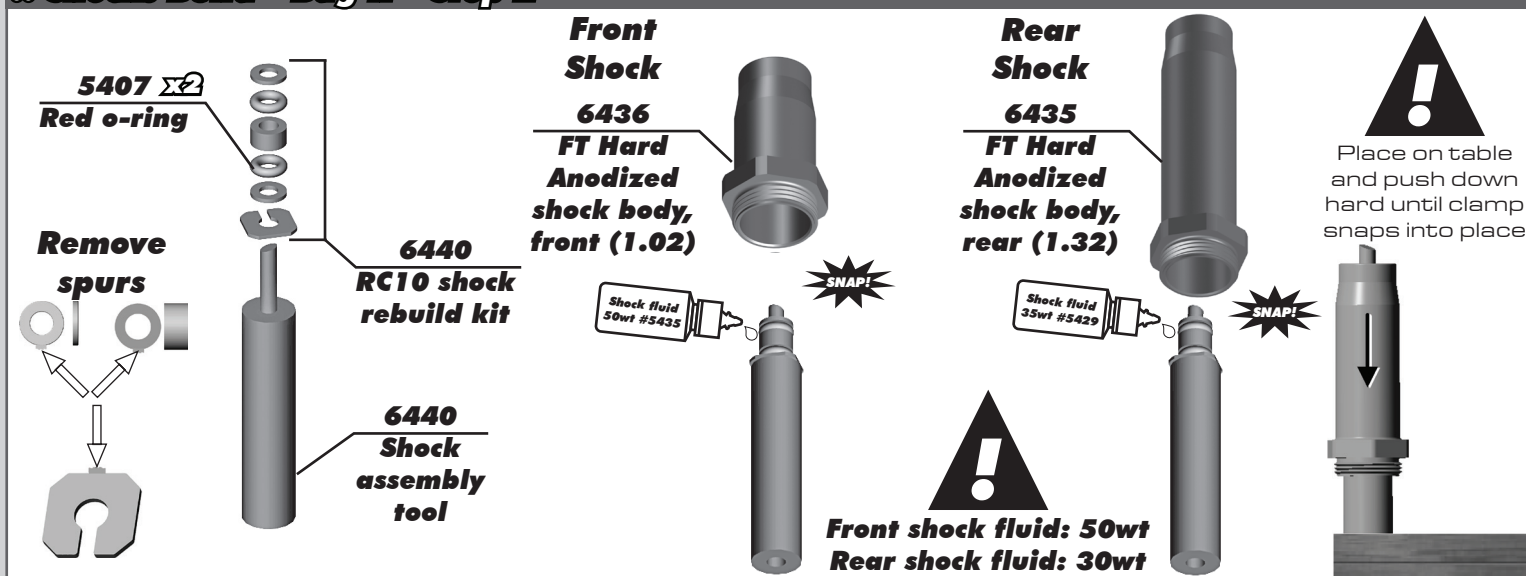
:: Bumper, Body Mounts, Front Brace Tubes Build - Bag G - Step 2



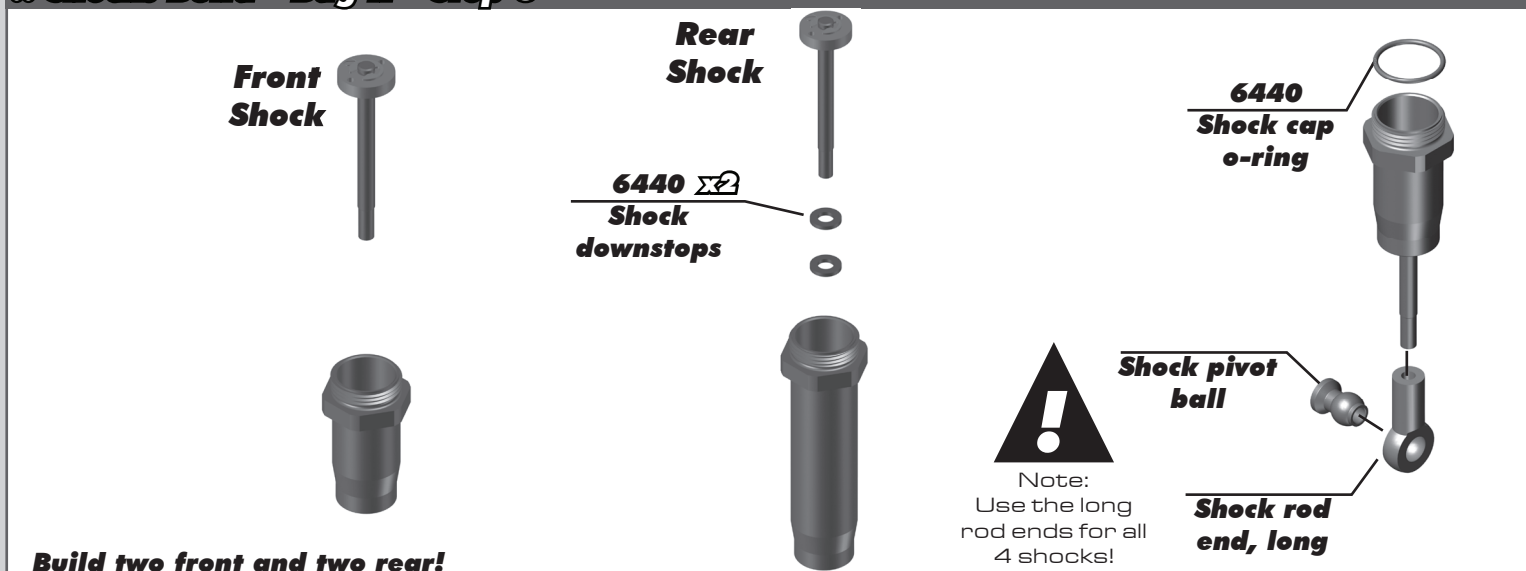
:: Shocks Build - Bag H - Step 1



:: Shocks Build - Bag H - Step 2



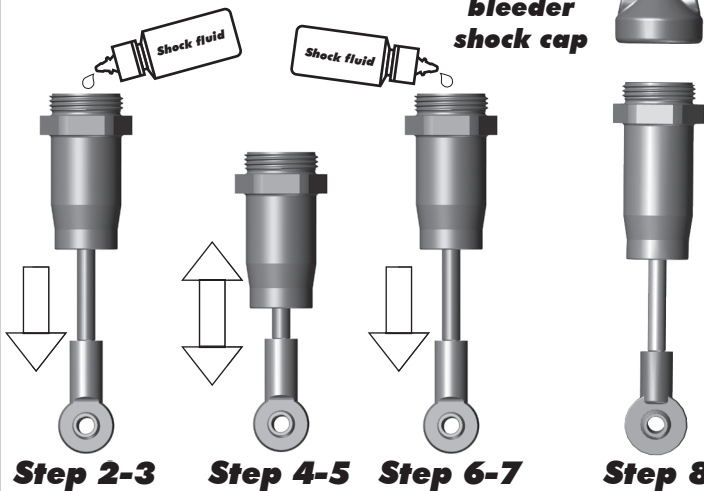
:: Shocks Build - Bag H - Step 3



:: Shocks Build - Bag H - Step 4

Front shock fluid: 50wt
Rear shock fluid: 35wt

6443
RC10
bleeder
shock cap

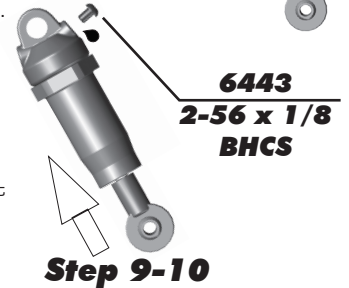


Shock Bleeding Steps:

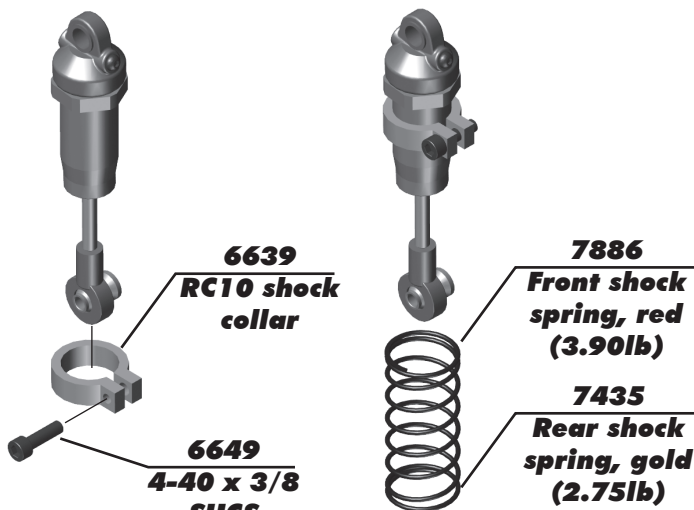
1. Before assembly, get each bleed screw and thread it 1-2 turns into the shock cap, then remove the screw. This will make it easier when you are bleeding your shocks.
2. Pull shock shaft down.
3. Fill shock body 3/4 full with silicone shock fluid.
4. Slowly move the shock shaft up and down to remove 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:
28mm
Rear:
37mm

6443
2-56 x 1/8
BHCS



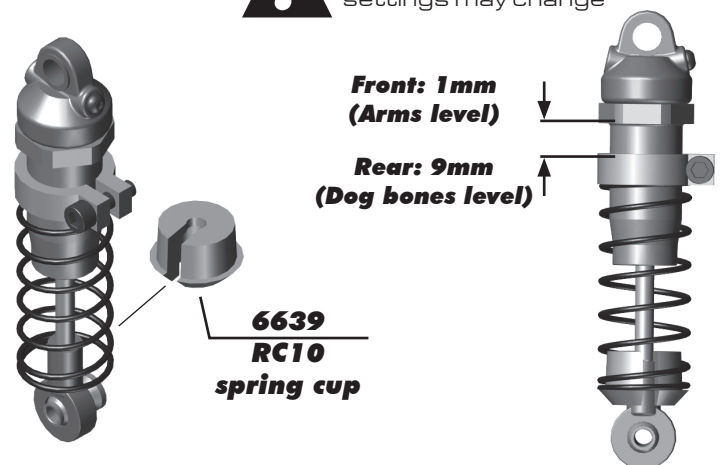
:: Shocks Build - Bag H - Step 5



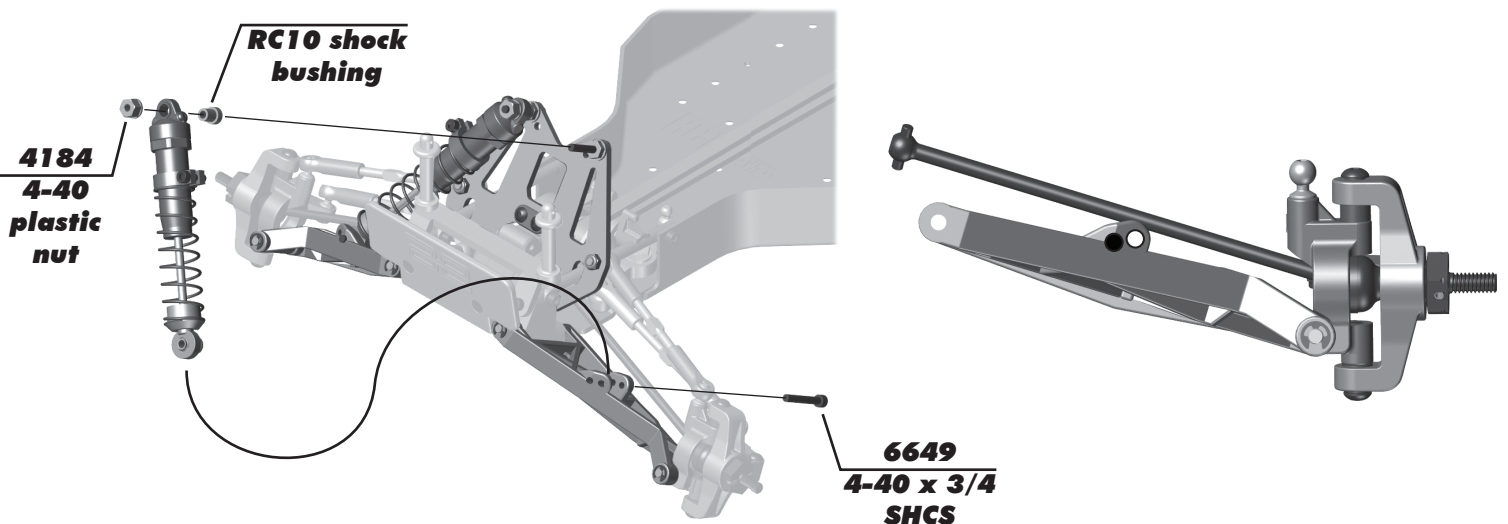
Build two front and two rear!



Due to various weights of electronics, these settings may change

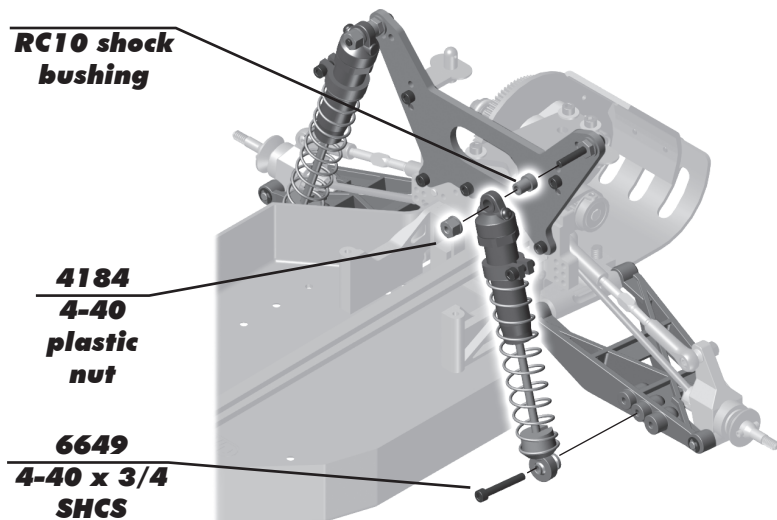


:: Shocks Build - Bag H - Step 6

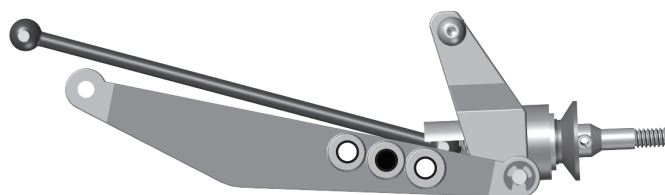


Build left and right sides!

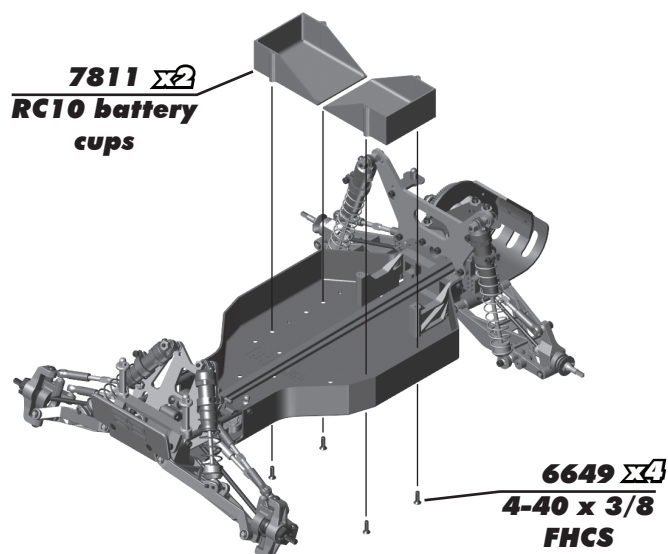
:: Shocks Build - Bag H - Step 7



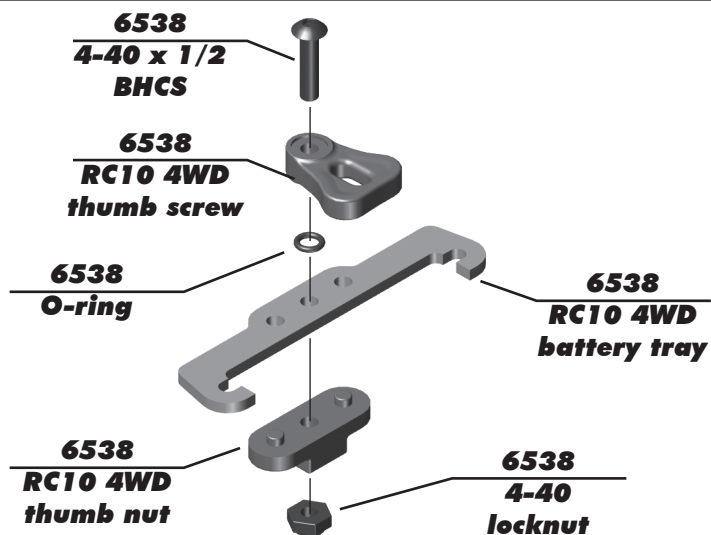
Build left and right sides!



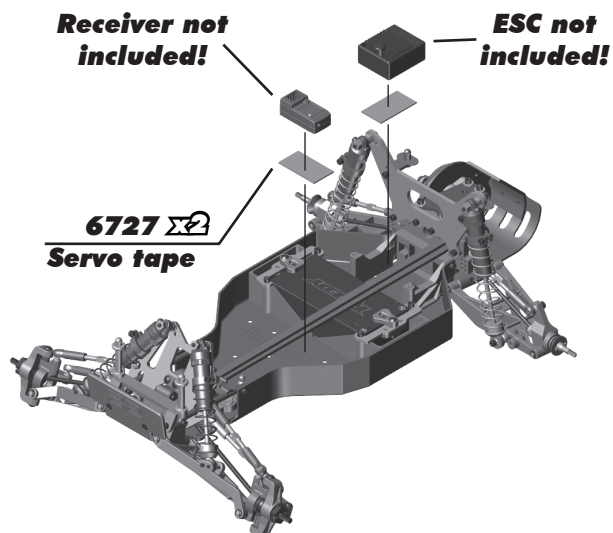
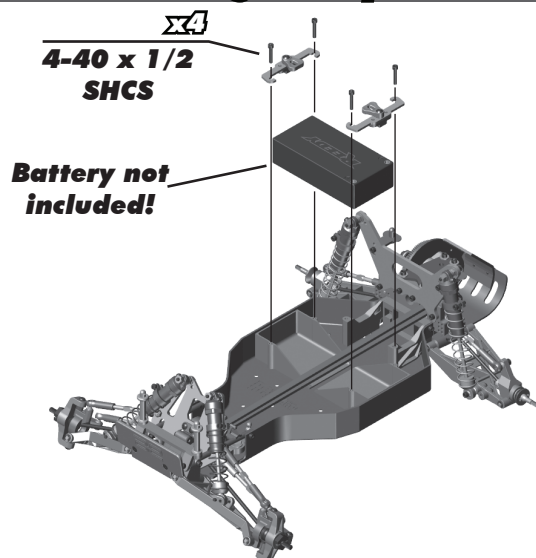
:: Chassis Build - Bag I - Step 1



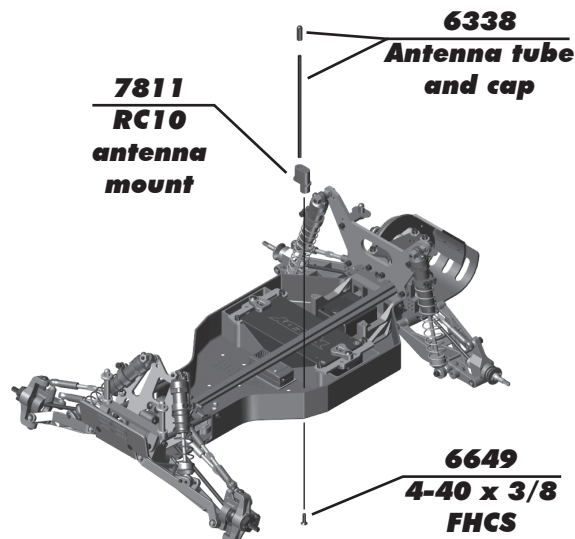
Build x2!



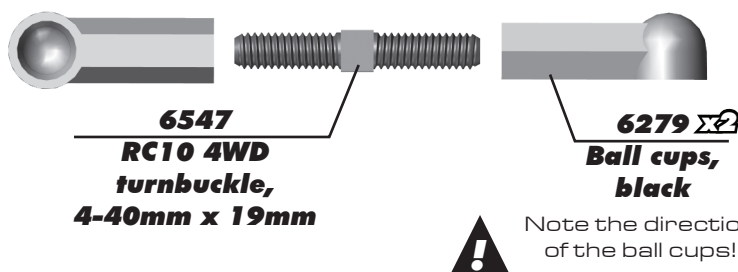
:: Chassis Build - Bag I - Step 2



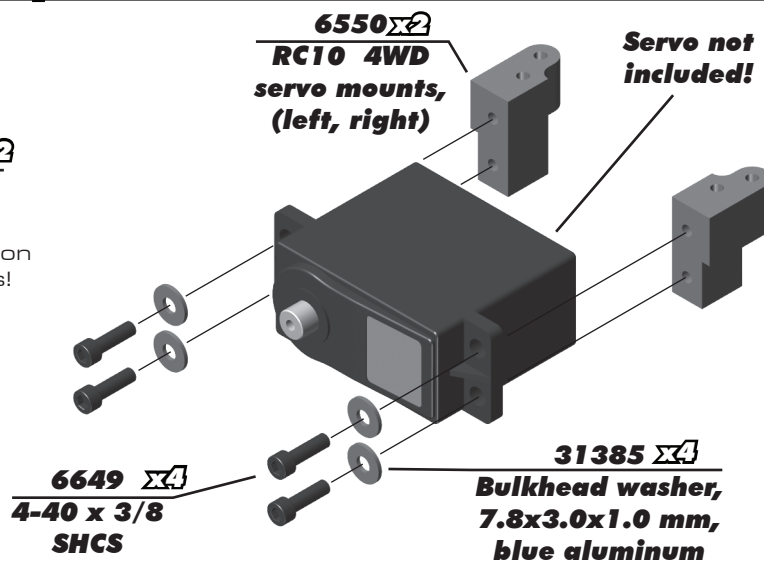
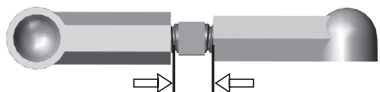
:: Chassis Build - Bag I - Step 3



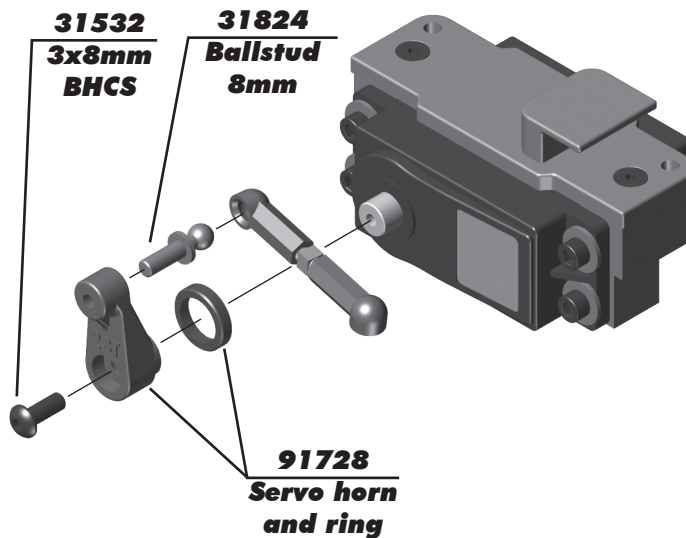
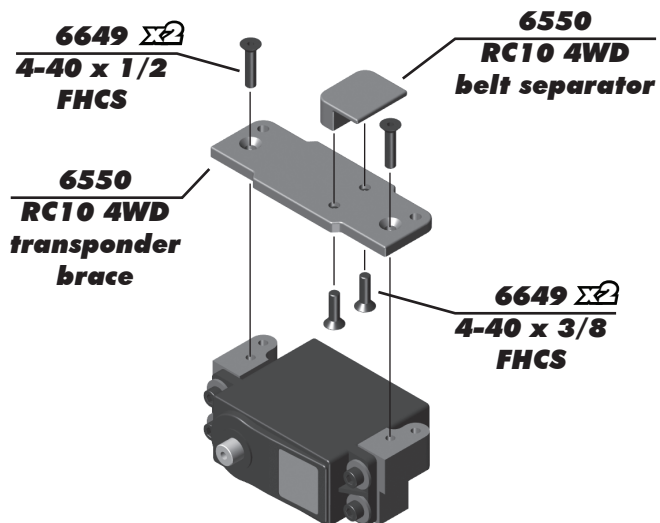
:: Servo / Chassis Stiffeners Build - Bag J - Step 1



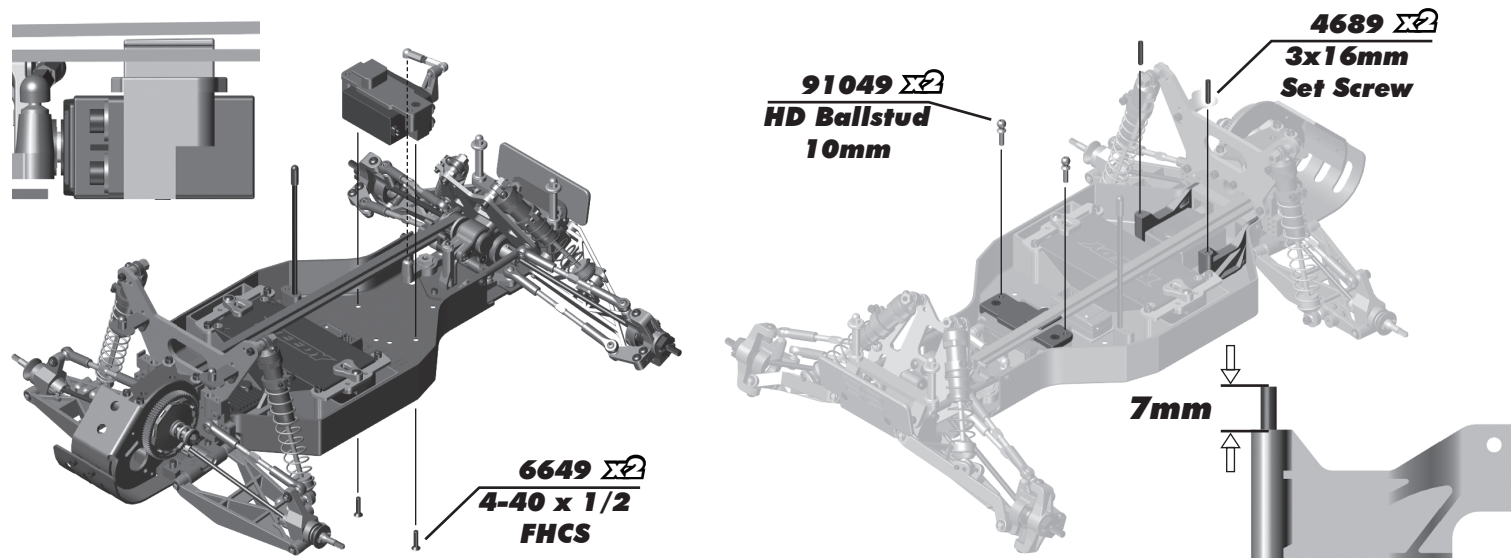
Servo Turnbuckle
0.19 - 0.31" (5 to 8mm)



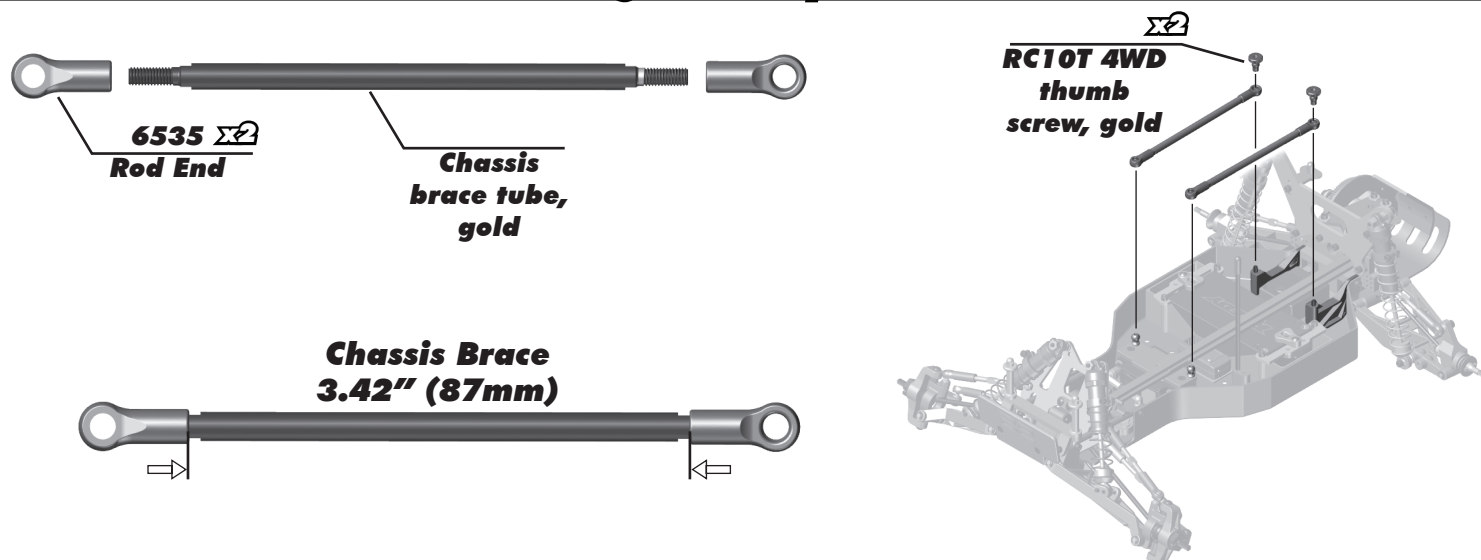
:: Servo / Chassis Stiffeners Build - Bag J - Step 2



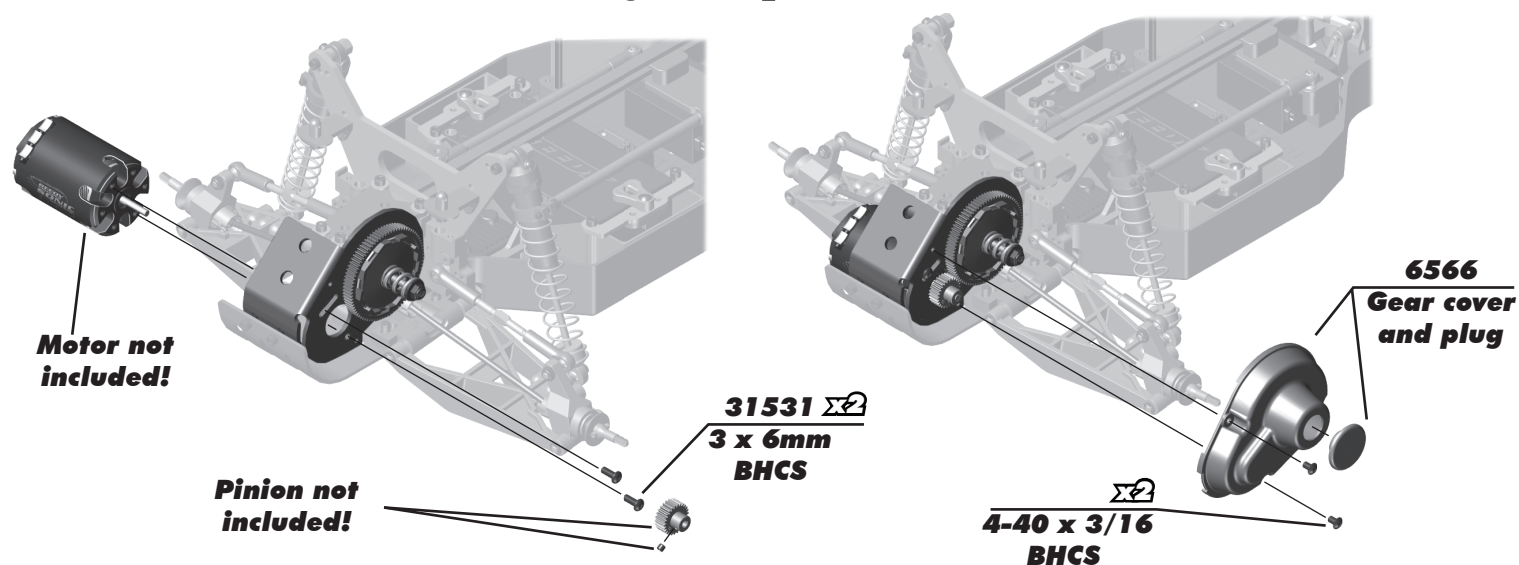
:: Servo / Chassis Stiffeners Build - Bag J - Step 3



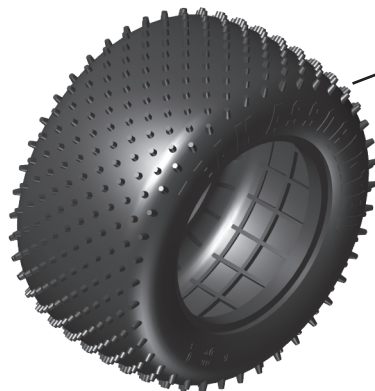
:: Servo / Chassis Stiffeners Build - Bag J / F - Step 4



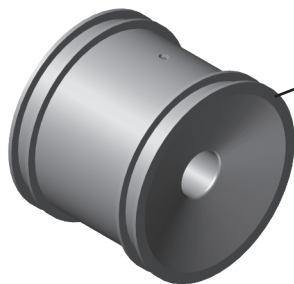
:: Wheels / Tires and Accessories - Bag K - Step 1



:: Wheels / Tires and Accessories - Bag K - Step 2



7835
Mini pin
tire

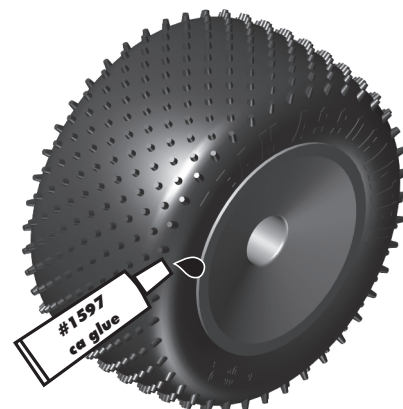


7852
Truck wheels,
2.2 in, 12 mm
hex, white

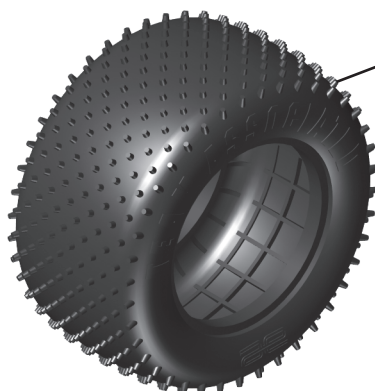
Build 2



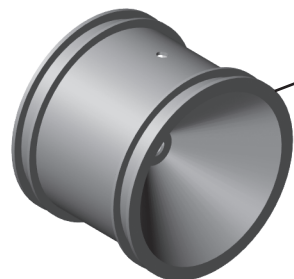
Clean the tire and wheel bead.
Carefully apply CA glue (tire adhesive)
to the tire bead on both sides.
Do one side at a time, allow it to dry
before gluing the other side!
CA glue not included!



:: Wheels / Tires and Accessories - Bag K - Step 3



7835
Mini pin
tire

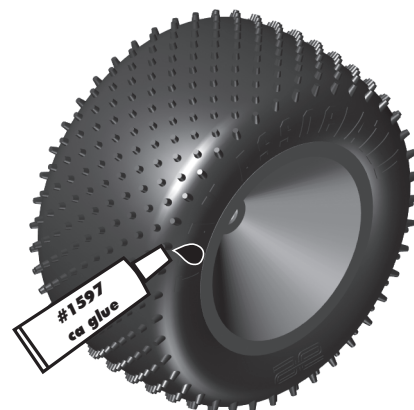


7863
Truck rear
wheels, white

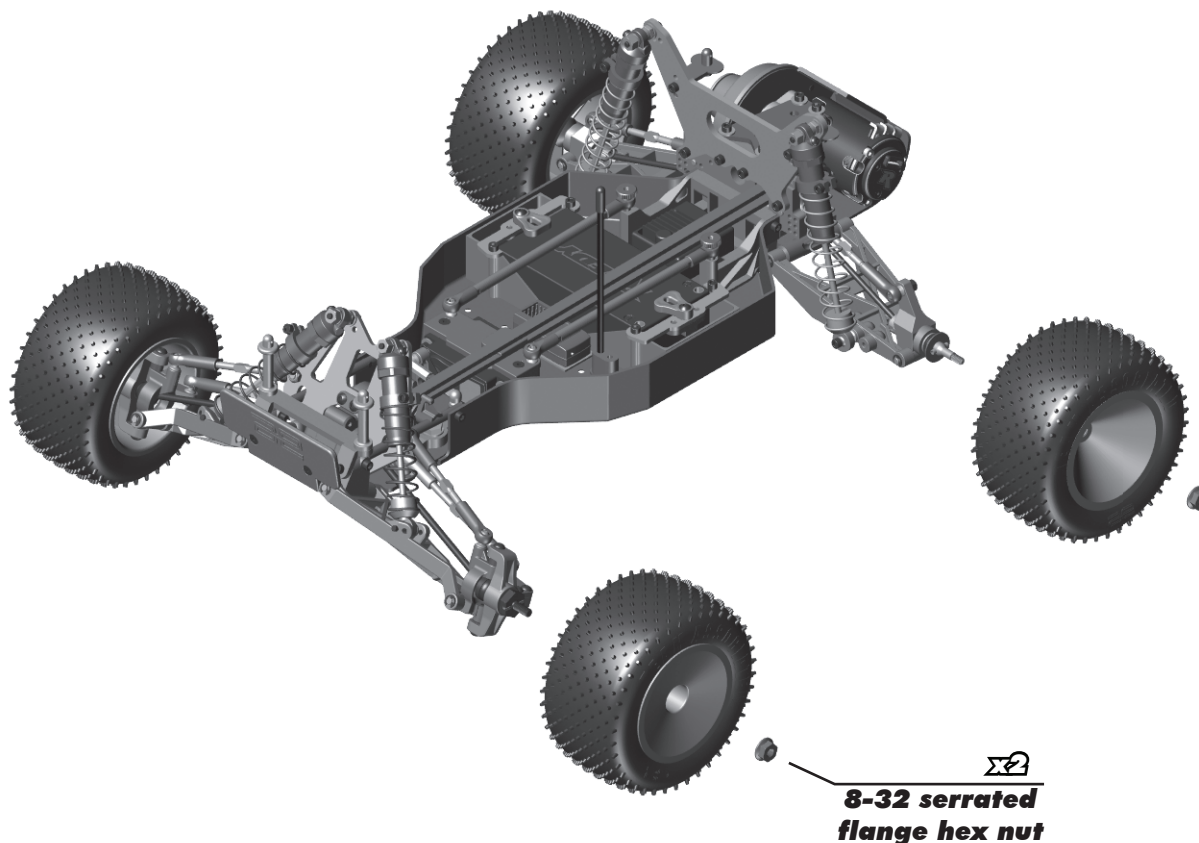
Build 2



Clean the tire and wheel bead.
Carefully apply CA glue (tire adhesive)
to the tire bead on both sides.
Do one side at a time, allow it to dry
before gluing the other side!
CA glue not included!



:: Wheels / Tires and Accessories - Bag K - Step 5



:: Body - Step 1

Painting Tips:

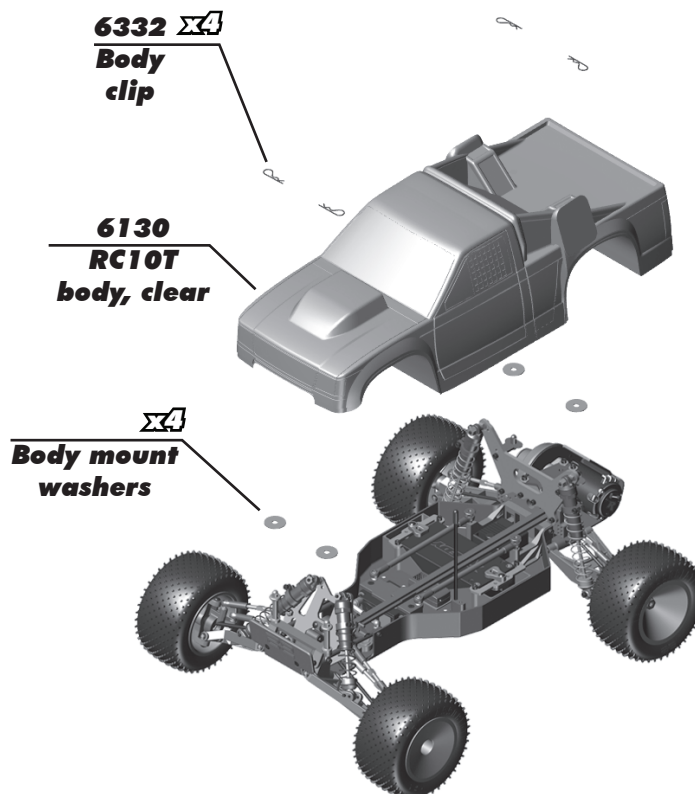
Your Kit comes with a clear polycarbonate body and wing. You will need to prep the body and wing before you can paint them. Wash the inside thoroughly with warm water and liquid detergent. Dry the body and wing using a clean, soft, lint-free cloth. Use high quality masking tape to make masks for the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



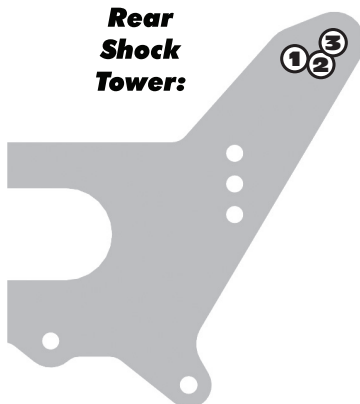
TEAM ASSOCIATED RC10 4WD SETUP SHEET

Driver: _____ Date: _____
 Track: _____ Event: _____
 Conditions: Indoor ☐ Outdoor ☐ Temp. _____ Rev.1

Shock Towers



Front Shock Tower:

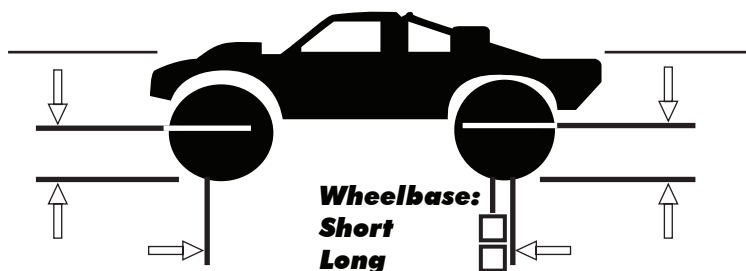


Rear Shock Tower:

Ride Height / Wheelbase

Front Ride Height:

Rear Ride Height:



Wheelbase:
Short
Long

Front Suspension

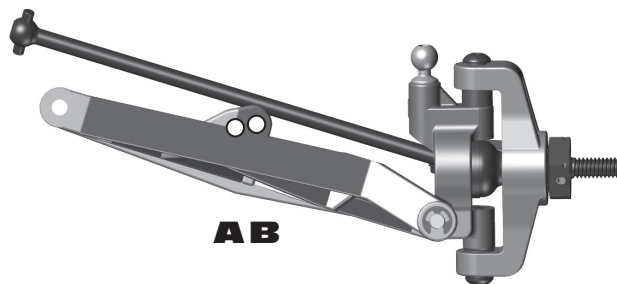
Camber: _____

Toe: _____

Caster:

15° ☐

30° ☐



A B

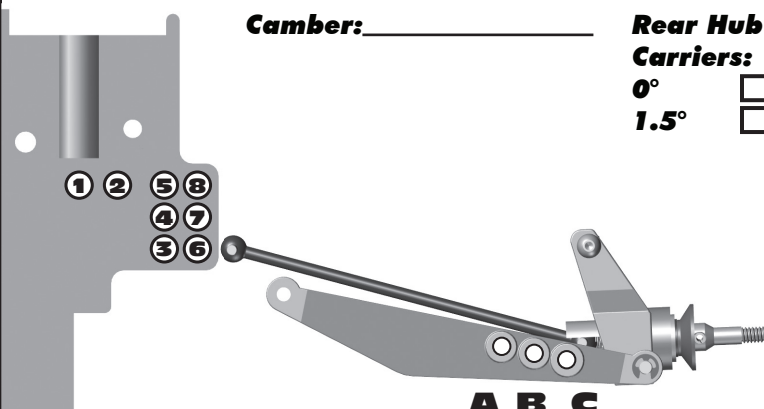
Rear Suspension

Camber: _____

Rear Hub Carriers:

0° ☐

1.5° ☐



A B C

Front Shocks

Spring: _____

Shock Oil: _____

Piston: _____

Limiter: _____

Rear Shocks

Spring: _____

Shock Oil: _____

Piston: _____

Limiter: _____

Motor / Battery

Motor & Wind: _____

Pinion: _____ **Spur Gear:** _____

Battery: _____

Notes: _____

Radio / ESC Settings

Radio: _____

Throttle / Brake e.p.a: _____

Throttle / Brake expo: _____

Servo: _____ **Steering Expo:** _____

ESC: _____

ESC Settings: _____

Weight

Battery Placement: _____

Ballast Weight: _____

Notes: _____

Other

Body Type: _____

Wing Type: _____

Front Tires

Tire: _____

Compound: _____

Insert: _____ **Wheel:** _____

Rear Tires

Tire: _____

Compound: _____

Insert: _____ **Wheel:** _____

Race and Vehicle Comments

Qualify: _____ **Main:** _____ **Finish:** _____ **TQ:** _____

Comments: _____

Track Info

Surface:

Dirt ☐

Carpet ☐

Astro ☐

Multi ☐

Traction:

Low ☐

Med ☐

High ☐

Conditions:

Grooved ☐

Dusty ☐

Smooth ☐

Bumpy ☐

Hard Pack ☐

Loamy ☐

Moisture:

Wet ☐

Damp ☐

Dry ☐

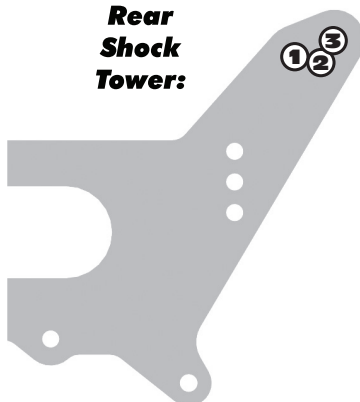
TEAM ASSOCIATED RC10 4WD SETUP SHEET

Driver: _____ Date: _____
Track: _____ Event: _____
Conditions: Indoor ☐ Outdoor ☐ Temp. _____ Rev.1

Shock Towers



Front Shock Tower:

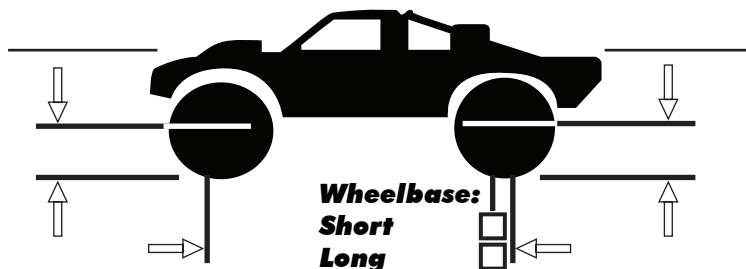


Rear Shock Tower:

Ride Height / Wheelbase

Front Ride Height:

Rear Ride Height:



Wheelbase:
Short
Long

Front Suspension

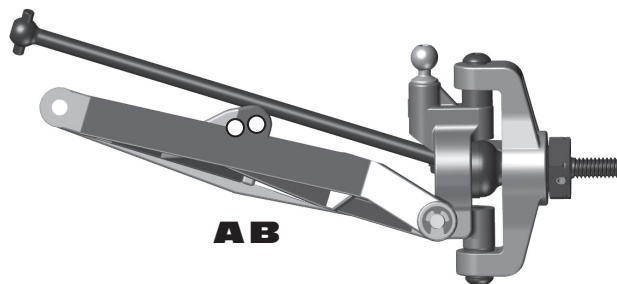
Camber: _____

Toe: _____

Caster:

15° ☐

30° ☐



A B

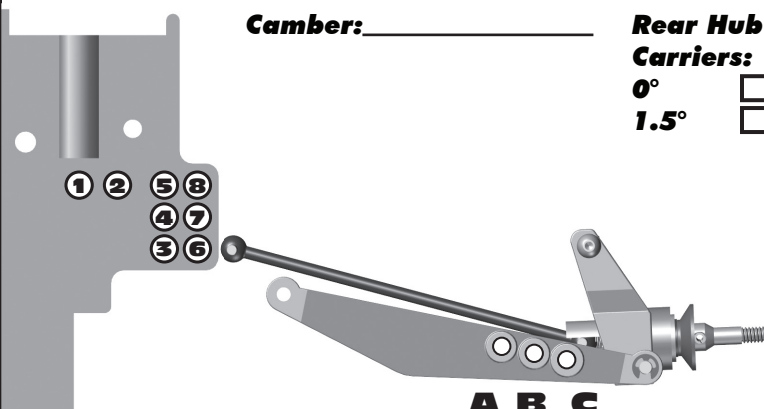
Rear Suspension

Camber: _____

Rear Hub Carriers:

0° ☐

1.5° ☐



A B C

Front Shocks

Spring: _____

Shock Oil: _____

Piston: _____

Limiter: _____

Rear Shocks

Spring: _____

Shock Oil: _____

Piston: _____

Limiter: _____

Motor / Battery

Motor & Wind: _____

Pinion: _____ **Spur Gear:** _____

Battery: _____

Notes: _____

Radio / ESC Settings

Radio: _____

Throttle / Brake e.p.a: _____

Throttle / Brake expo: _____

Servo: _____ **Steering Expo:** _____

ESC: _____

ESC Settings: _____

Weight

Battery Placement: _____

Ballast Weight: _____

Notes: _____

Other

Body Type: _____

Wing Type: _____

Front Tires

Tire: _____

Compound: _____

Insert: _____ **Wheel:** _____

Rear Tires

Tire: _____

Compound: _____

Insert: _____ **Wheel:** _____

Race and Vehicle Comments

Qualify: _____ **Main:** _____ **Finish:** _____ **TQ:** _____

Comments: _____

Track Info

Surface:

Dirt ☐

Carpet ☐

Astro ☐

Multi ☐

Traction:

Low ☐

Med ☐

High ☐

Conditions:

Grooved ☐

Dusty ☐

Smooth ☐

Bumpy ☐

Hard Pack ☐

Loamy ☐

Moisture:

Wet ☐

Damp ☐

Dry ☐



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