

1:10 Scale 4WD Electric Off Road
Competition Buggy Kit



TEAM ASSOCIATED



1:10 Scale 4WD Electric Off Road Competition Buggy Kit Manual

#6055 RC104WD Factory Team Buggy Kit



CHAMPIONS by DESIGN

AssociatedElectrics.com

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

- 4WD Bronze anodized 6061-T6 aluminum monocoque tub chassis, nose plate and cut motor plate
- Anodized blue CNC pulleys all around
- All black plastics
- Factory Team captured hinge pins all around
- Shorty inline or sideways battery capabilities
- Fully adjustable four-wheel independent suspension
- Kashima bronze anodized big bore shocks
- Race proven front and rear stealth transmissions
- Adjustable ball differentials front and rear
- Exceptional ground clearance with low center of gravity
- Clear Mirage Pro body and B7 rear wing
- B7 rear wing mounts
- Carbon fiber big bore compliant front shock tower
- Carbon fiber big bore compliant rear shock tower with B7 wing mount integrated
- Precision ball bearings throughout
- Heavy duty adjustable 3.5mm turnbuckles all around
- Front and rear CVA driveshafts
- Durable low friction center Belt and tension system
- Long front arm geometry
- All new front caster and spindle assembly designed for RC104wd
- Updated Rear Bulkhead and chassis stiffener
- Carbon fiber rear transmission brace
- 12mm hex wheels all around
- 12mm hex system front and rear
- HD metric ball studs throughout
- Race proven V2 slipper clutch system
- All new 4wd specific worlds style bell crank system

:: Additional

Your new RC10 4WD FT 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
- 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
- Polycarbonate specific paint

Tools included:

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

- Buggy front and rear tires/inserts

:: 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

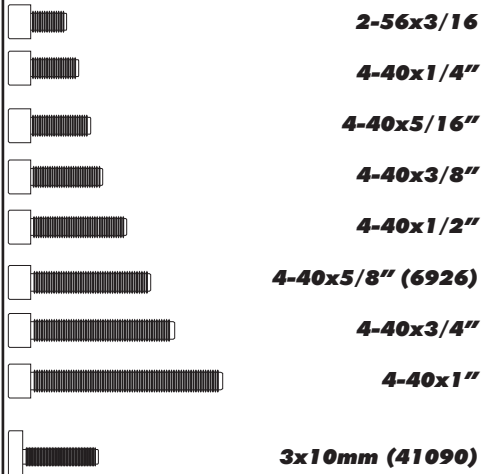
Associated Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630



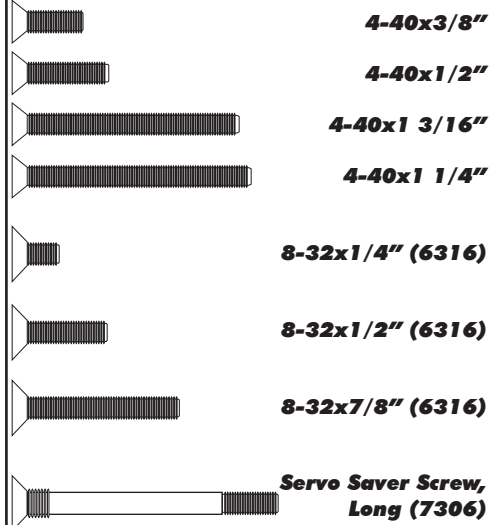
Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

:: Hardware - 1:1 Scale View

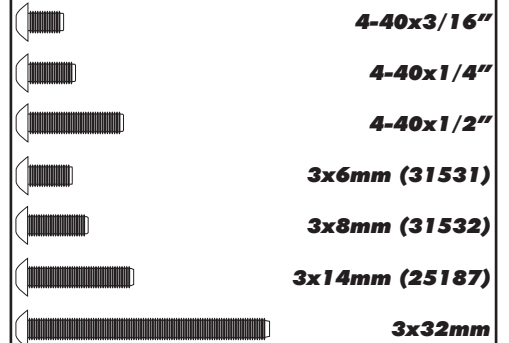
Cap Head (shcs)



Flat Head (fhcs)



Button Head (bhcs)



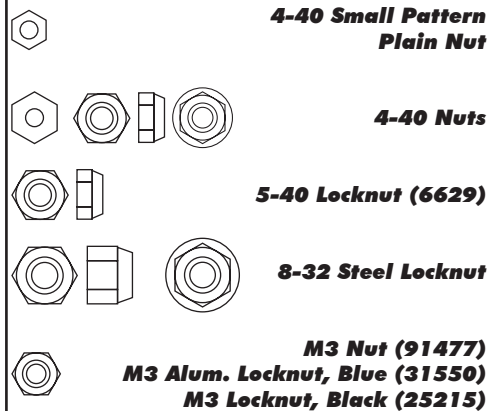
Clips



Shims and Washers



Nuts (lock/plain)



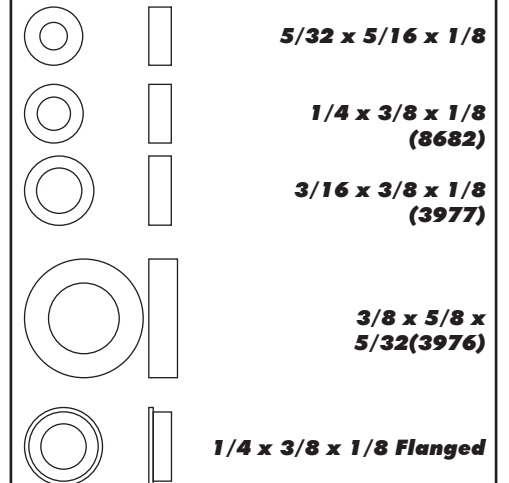
Set Screws



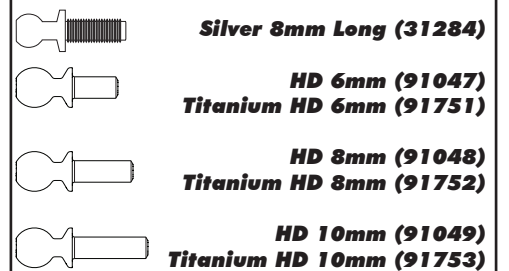
Diff Balls



Bearings



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.....Shocks Build (Bag G)
4..... Table of Contents	19..... Chassis Build (Bag H)
5.....Nose Plate / Steering Build (Bag A) (Bag F)	20.....Servo/Chassis Stiffeners Build (Bag I)
6..... Differential Build (Bag B)	21.....Wheels, Tires and Body Install (Bag J)
7.....Front Transmission Build (Bag B)	24 - 25.....Setup Sheets
8.....Rear Transmission Build (Bag B)	26..... Back Cover
9.....Front Suspension Build (Bag C)	
12.....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 Electrics, Inc.
21062 Bake Parkway
Lake Forest, CA 92630

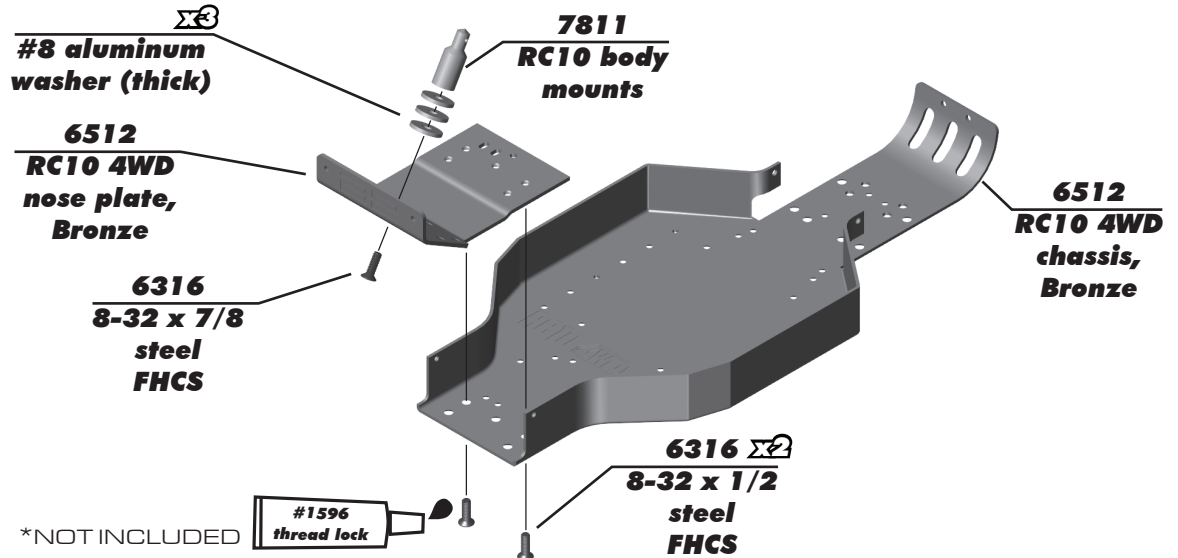


Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

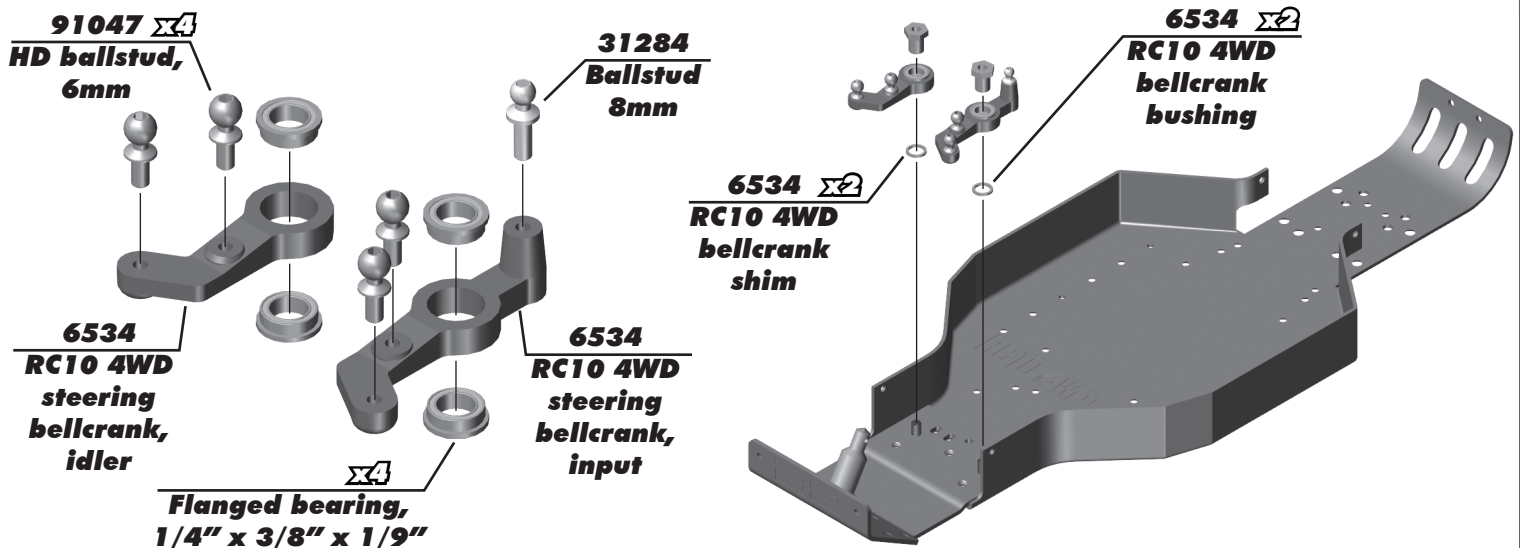
:: Nose Plate / Steering Build - Bag A - Step 1



Washers are used to adjust to your preferred body height.



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



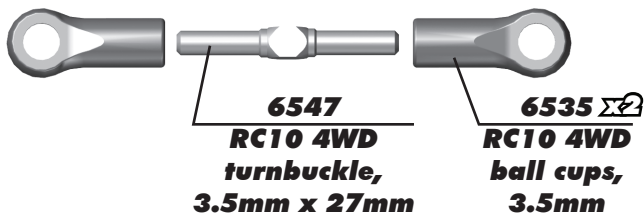
:: Nose Plate / Steering Build - Bag F - Step 3



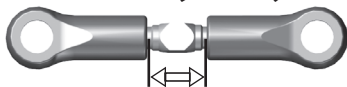
The steering rack turnbuckle parts are in bag F.



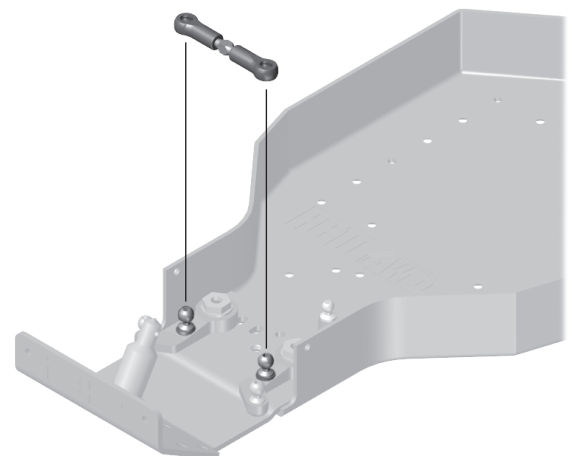
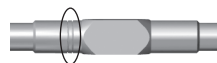
Note the direction of the ball cups!



Steering Rack Turnbuckle
0.31" (8mm)

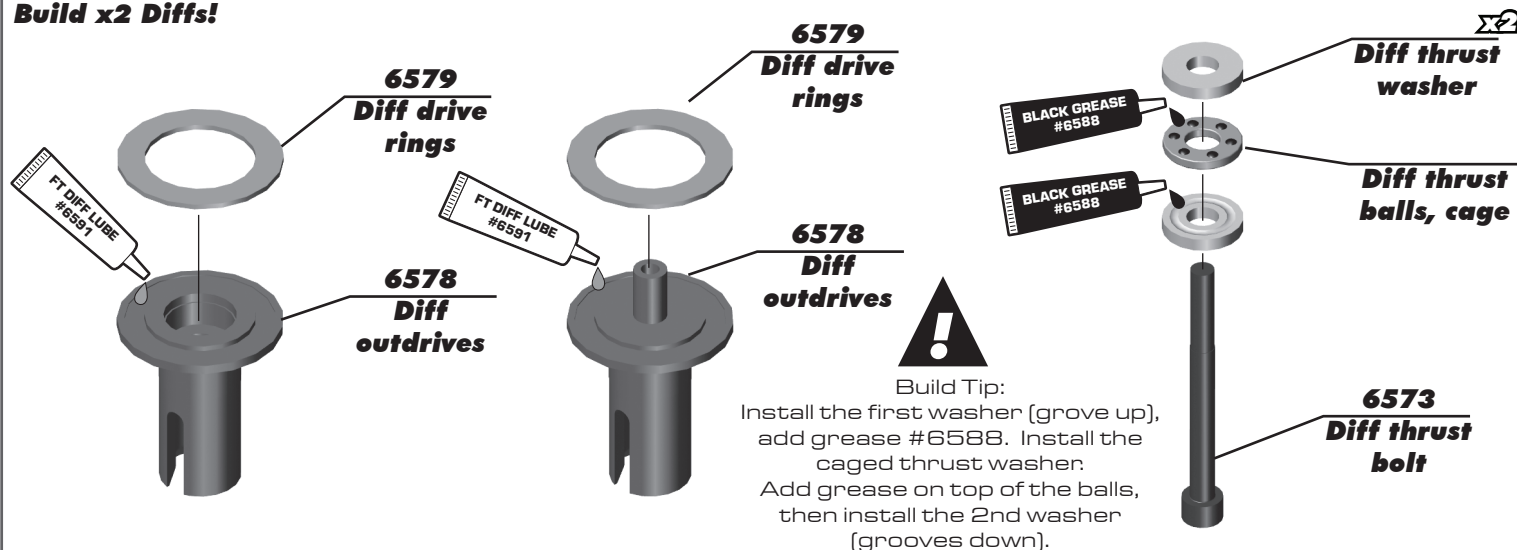


Orient the notch to the left throughout the car. It indicates which end has the left hand threads!

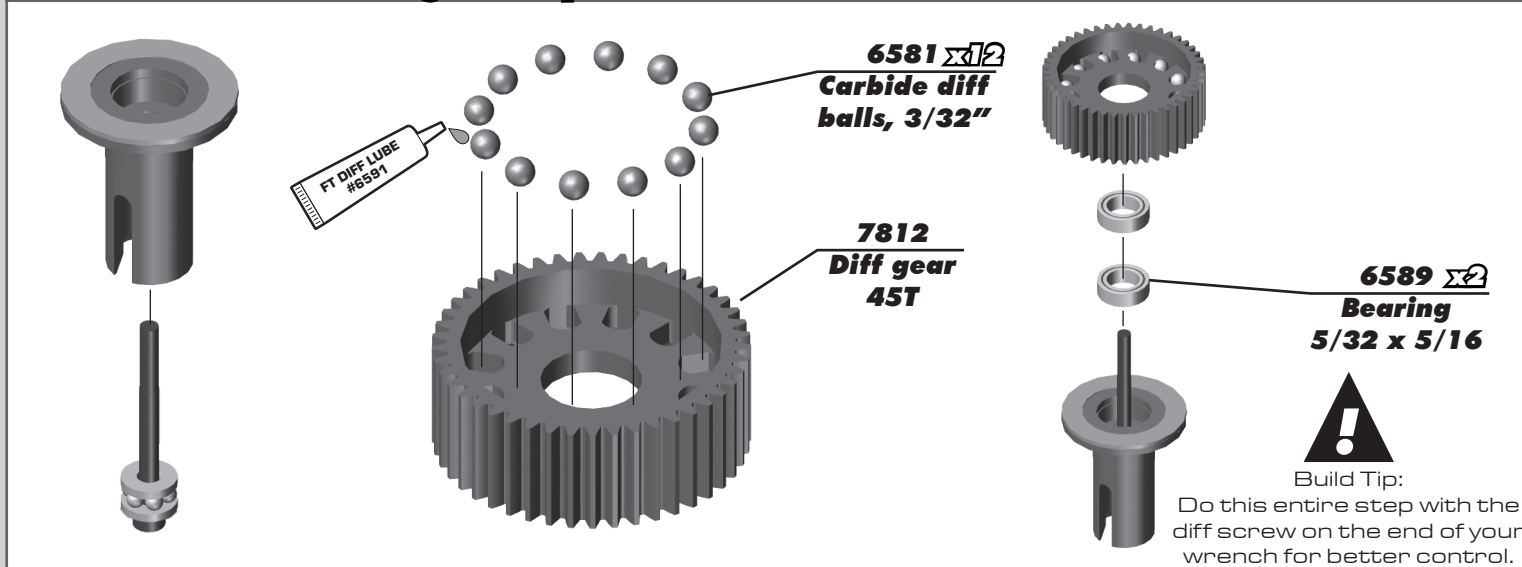


:: Differential Build - Bag B - Step 1

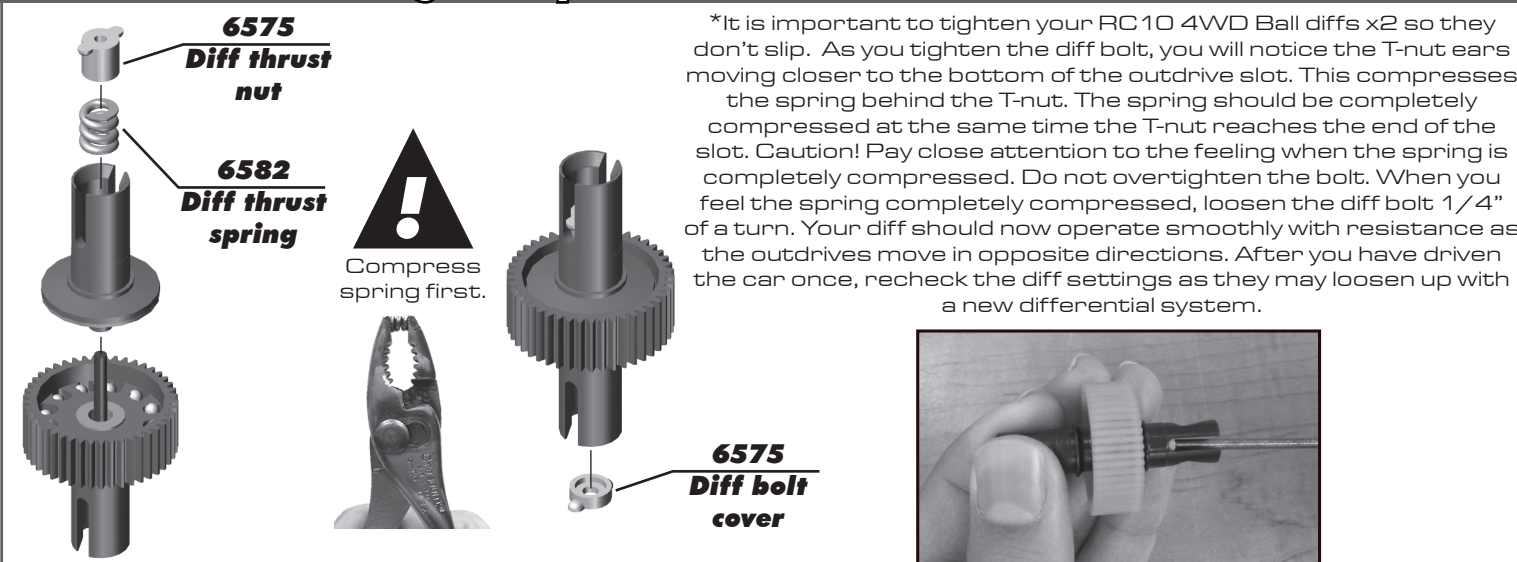
Build x2 Diffs!



:: Differential Build - Bag B - Step 2



:: Differential Build - Bag B - Step 3



:: 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 Left Side
- Rear Diff: Diff Bolt should be on the Right Side

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

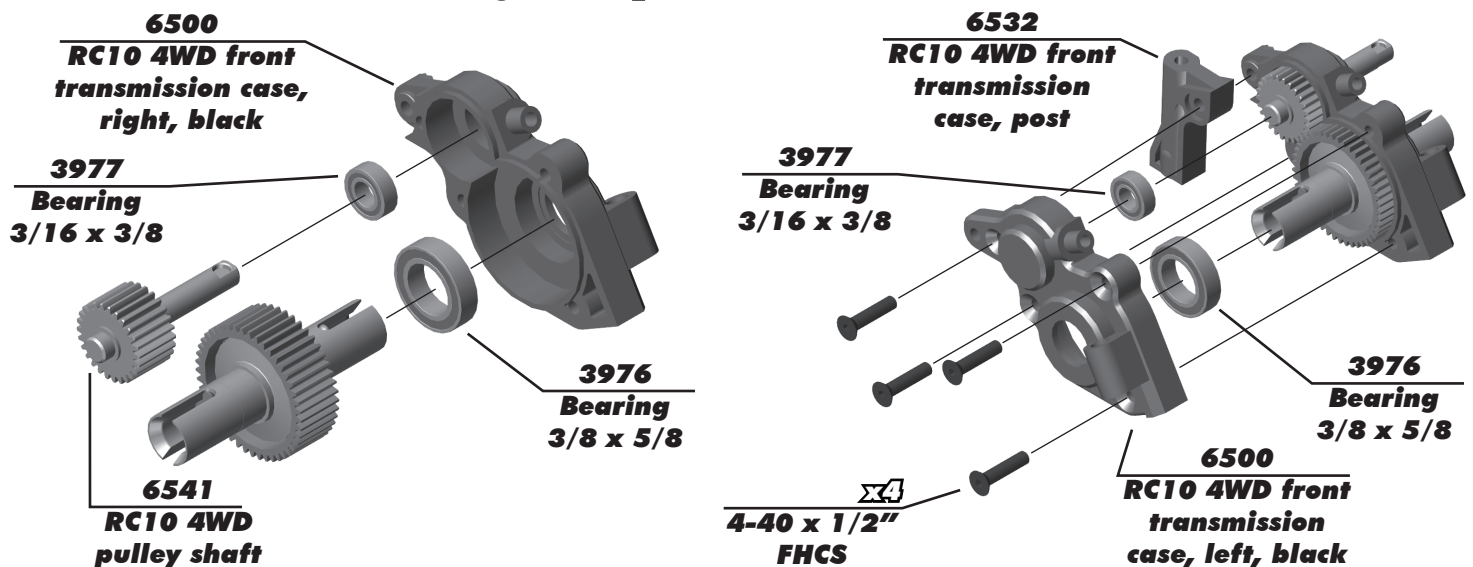
Looser Front Diff: Looser front diff compared to the rear will provide more off power steering and on power stability.

Rear diff settings and setup notes / tips:

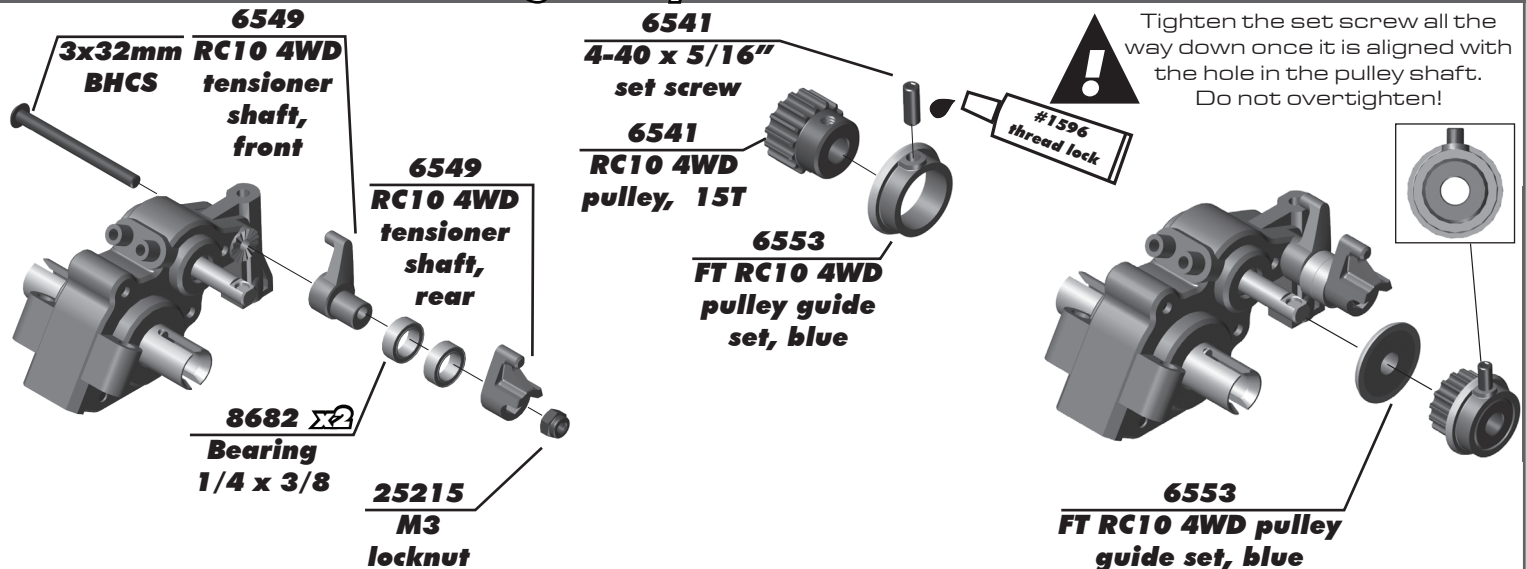
Tighter Rear Diff: Tighter rear diff compared to the front will provide more rear end stability.

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

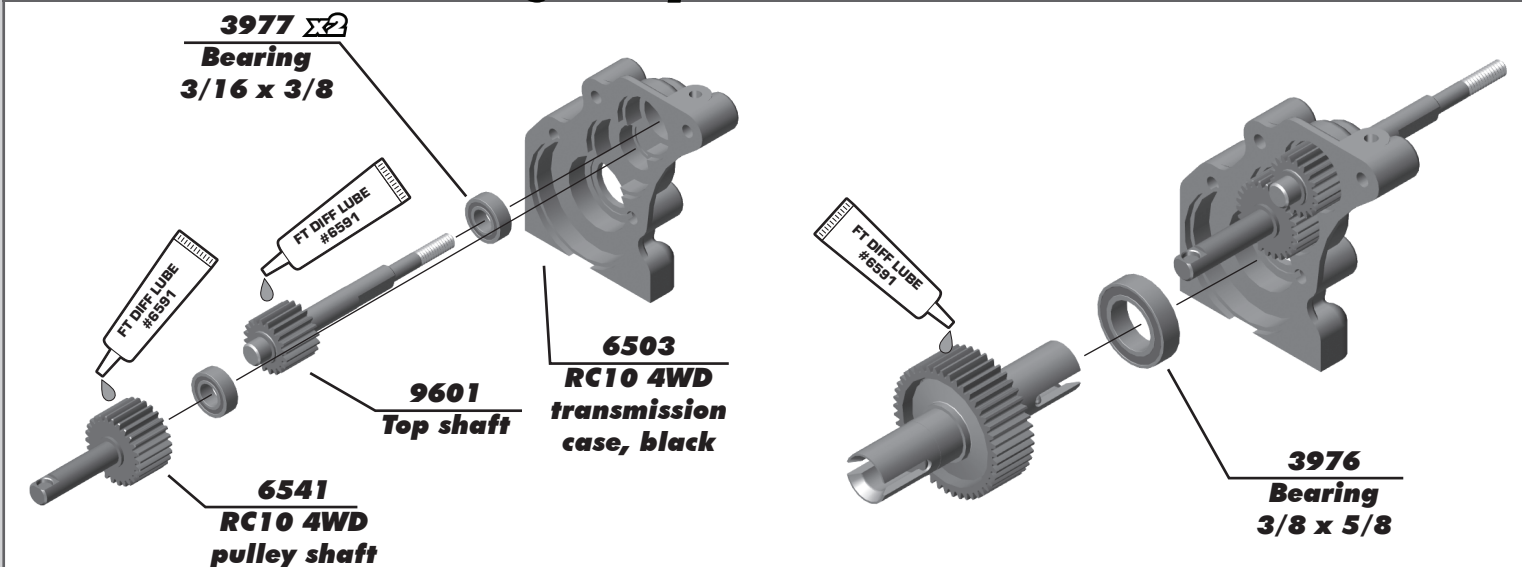
:: Front Transmission Build - Bag B - Step 1



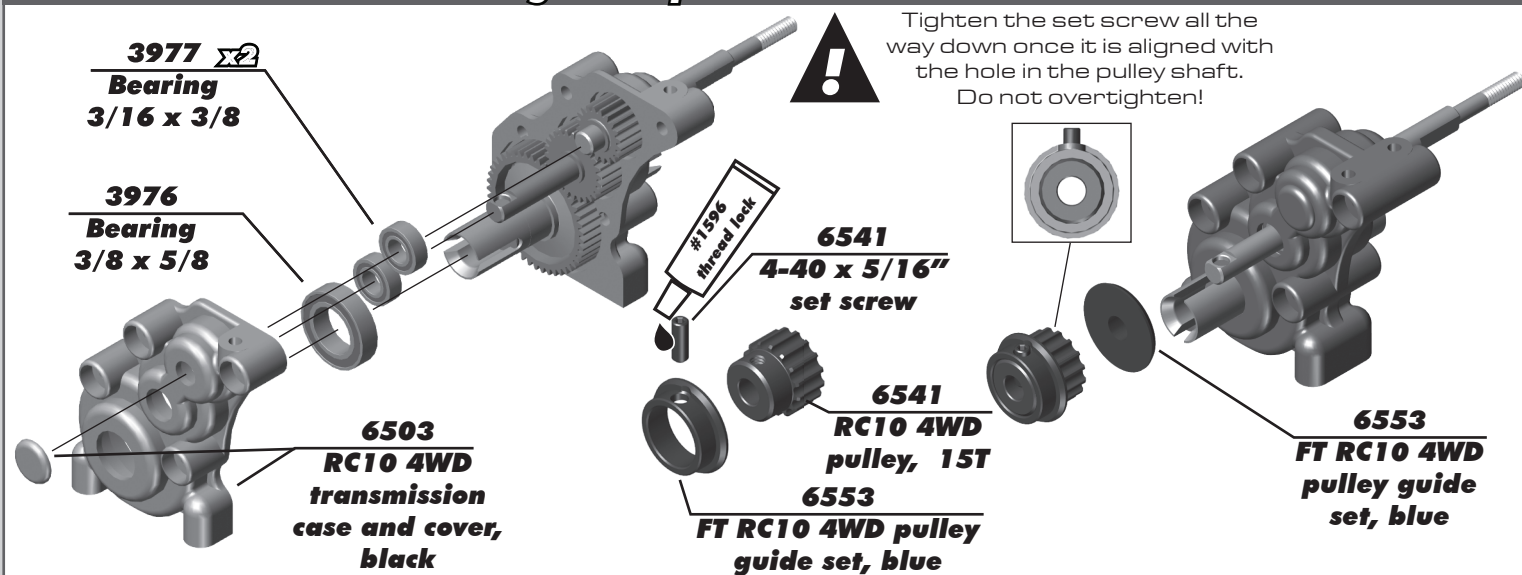
:: Front Transmission Build - Bag B - Step 2



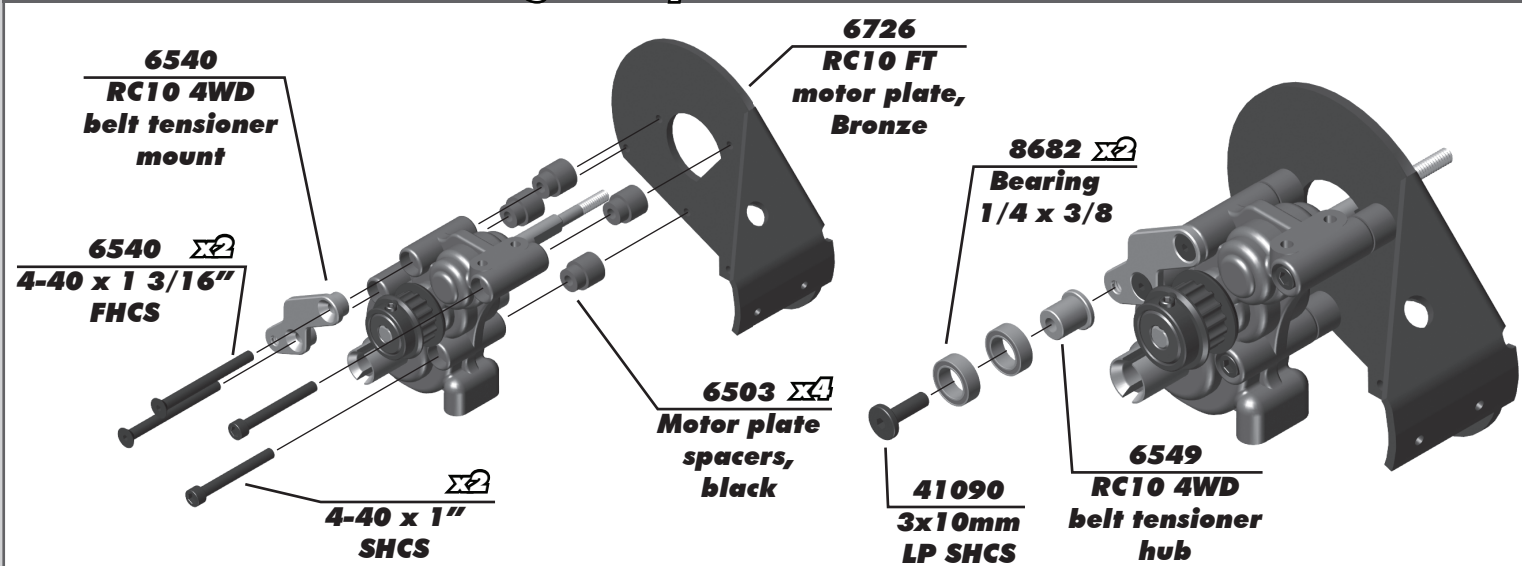
:: Rear Transmission Build - Bag B - Step 1



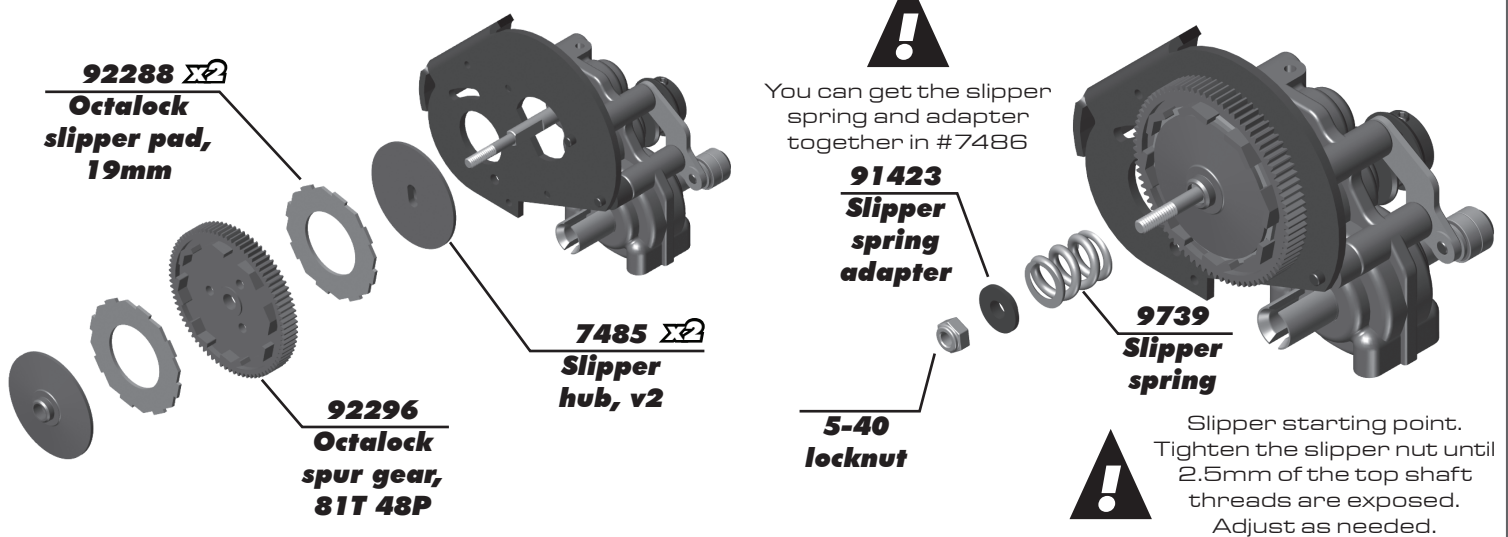
:: Rear Transmission Build - Bag B - Step 2



:: Rear Transmission Build - Bag B - Step 3



:: Rear Transmission Build - Bag B - Step 4



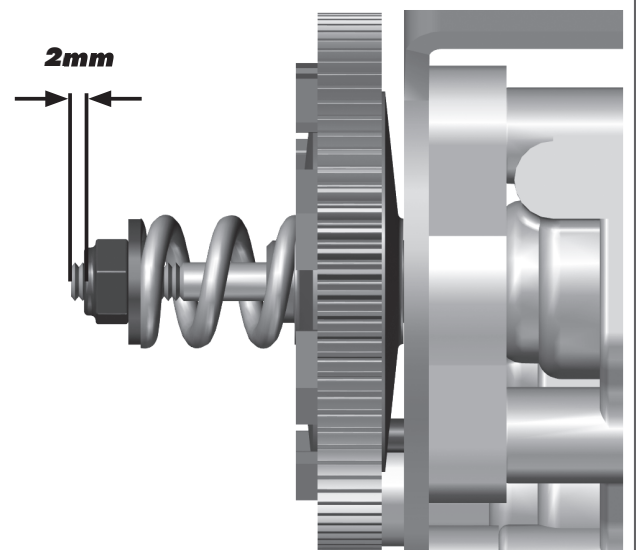
:: Rear Transmission Build - Bag B - Step 5

Slipper Clutch:
On high bite tracks:

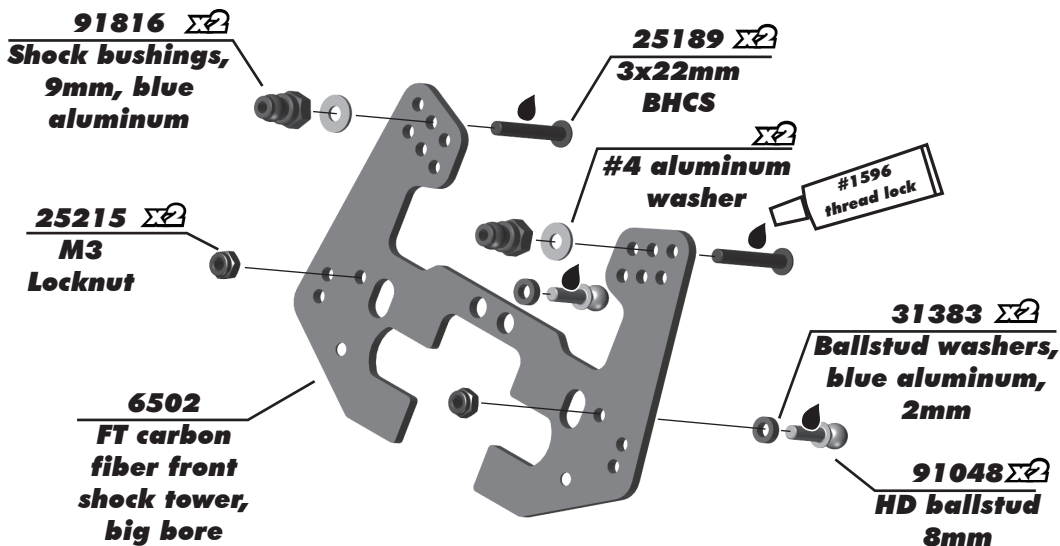
The slipper clutch setting is very important on higher bite tracks.

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.

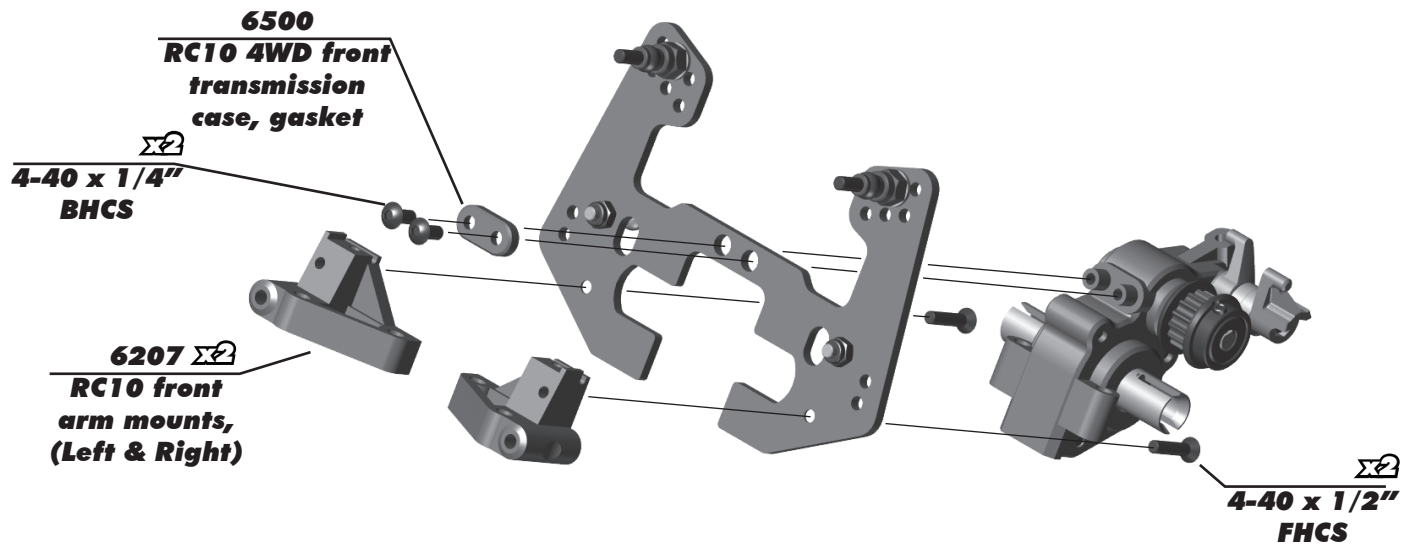
Caution: It is also recommended to set your esc brakes accordingly, too much brake can cause issues with the belt and slipper system.



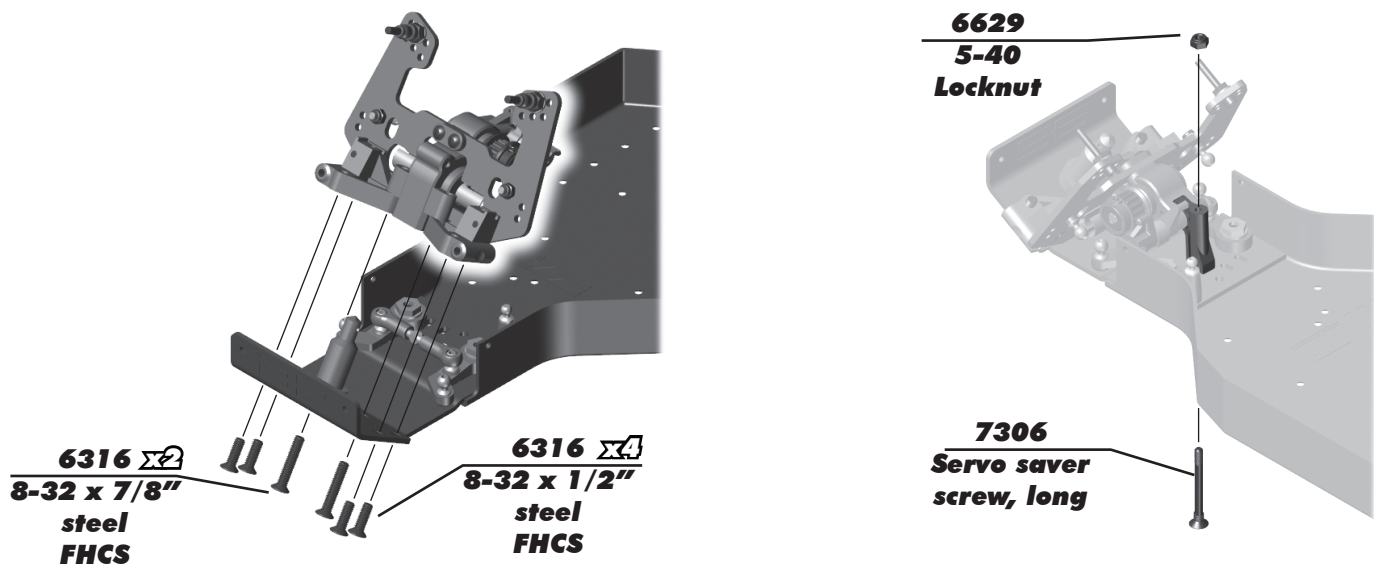
:: Front Suspension Build - Bag C - Step 1



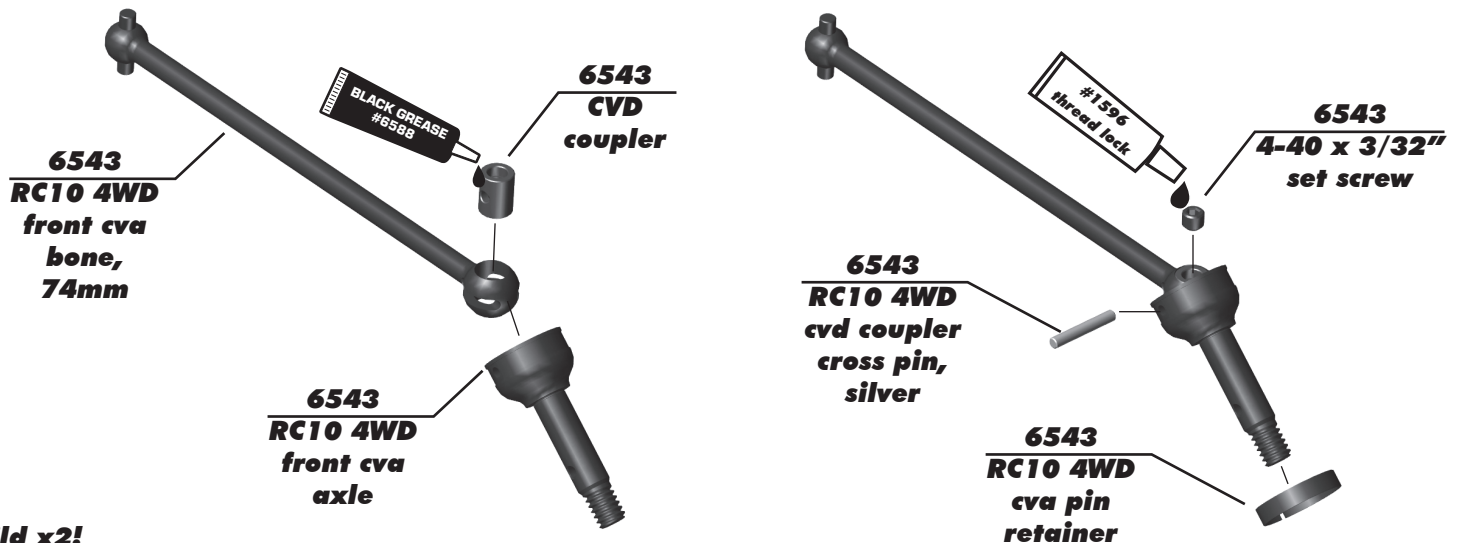
:: Front Suspension Build - Bag C - Step 2



:: Front Suspension Build - Bag C - Step 3

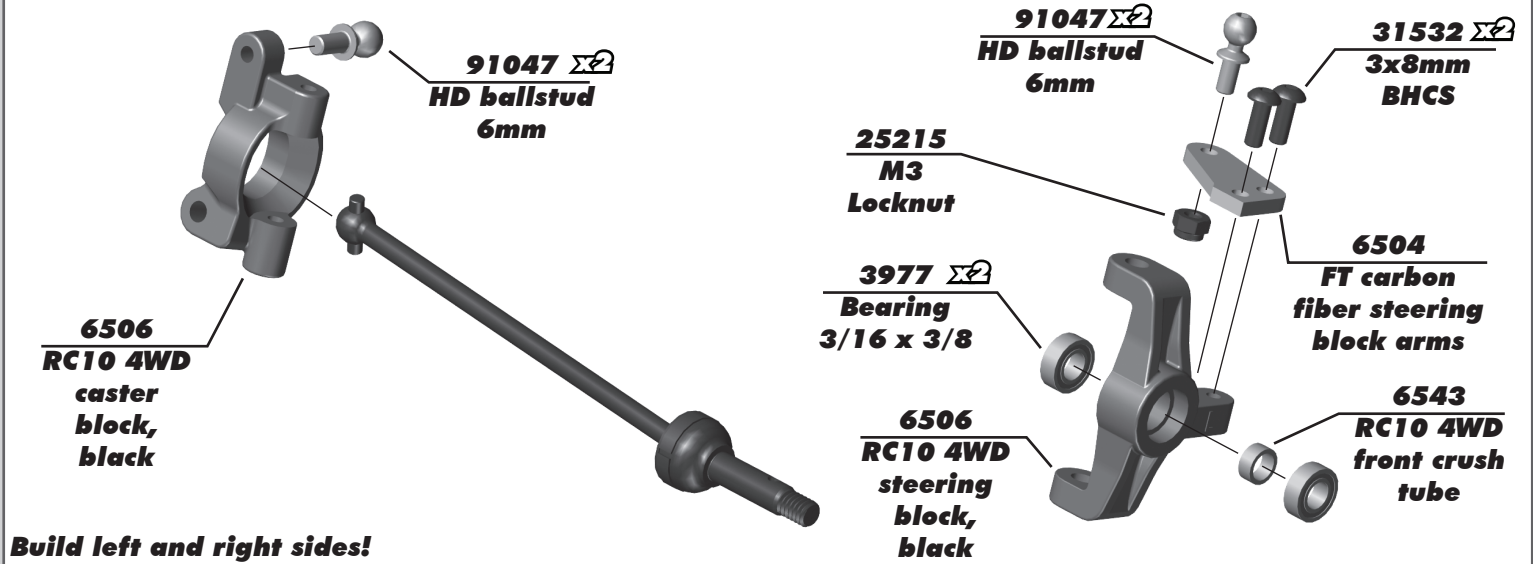


:: Front Suspension Build - Bag C - Step 4

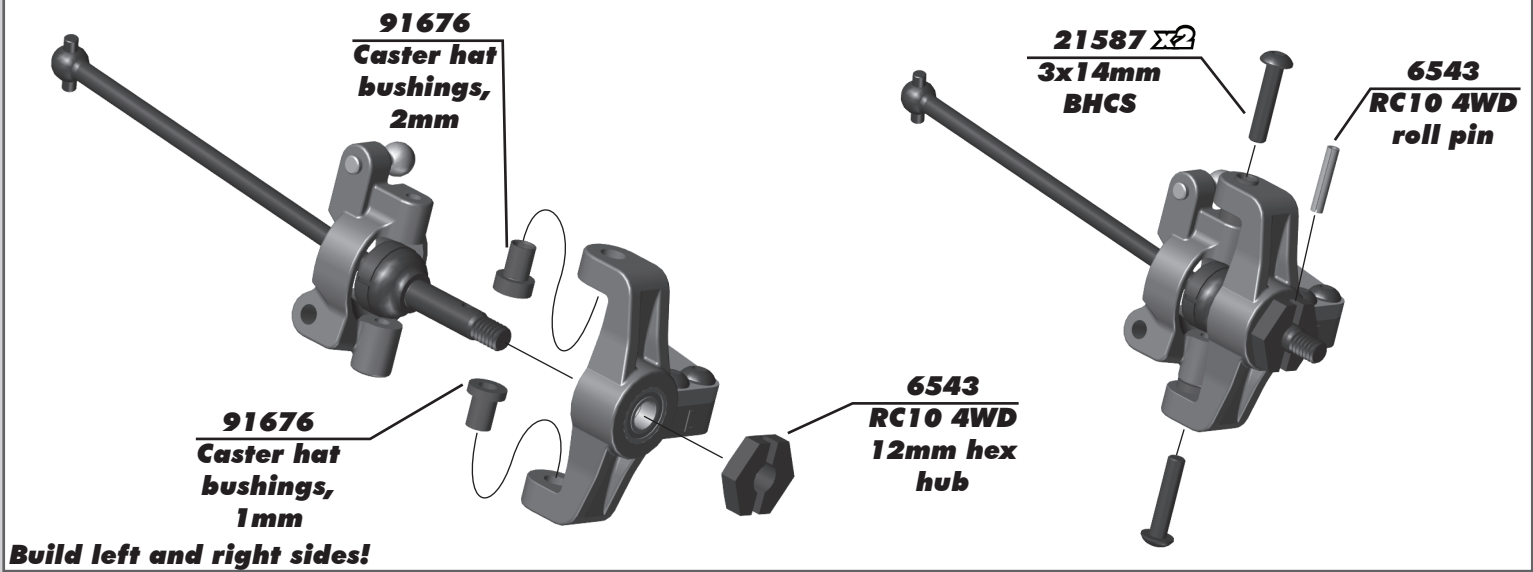


Build x2!

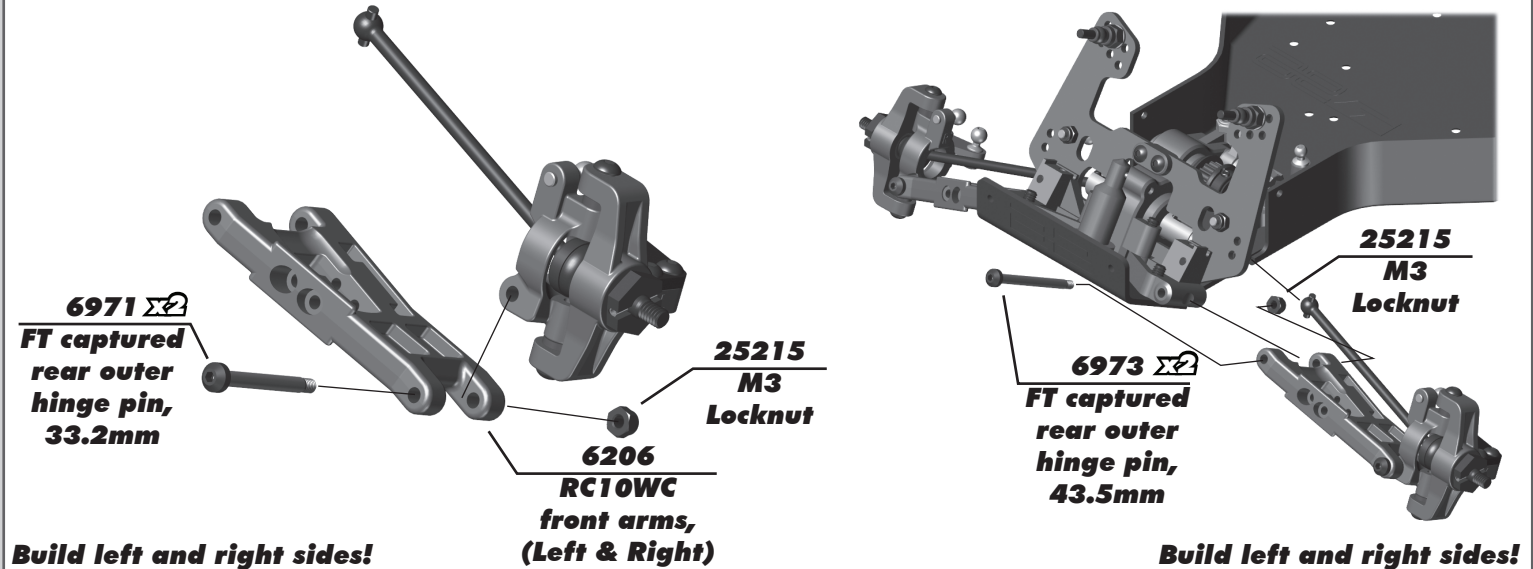
:: Front Suspension Build - Bag C - Step 5



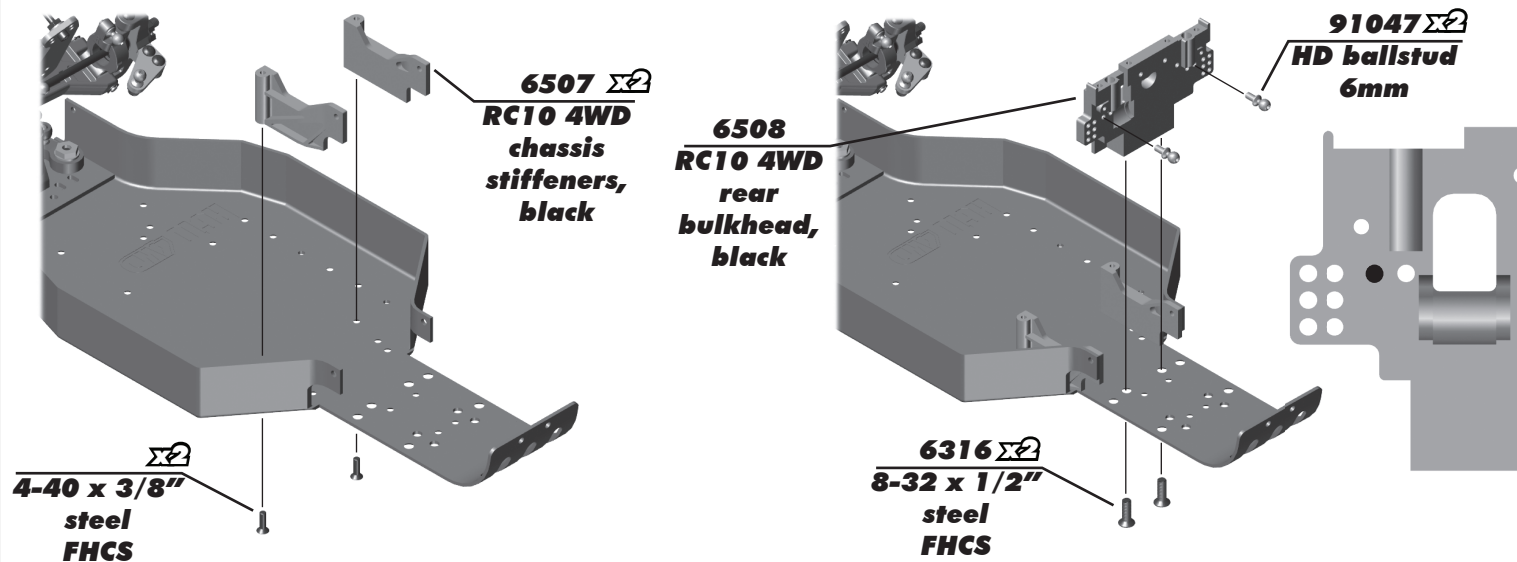
:: Front Suspension Build - Bag C - Step 6



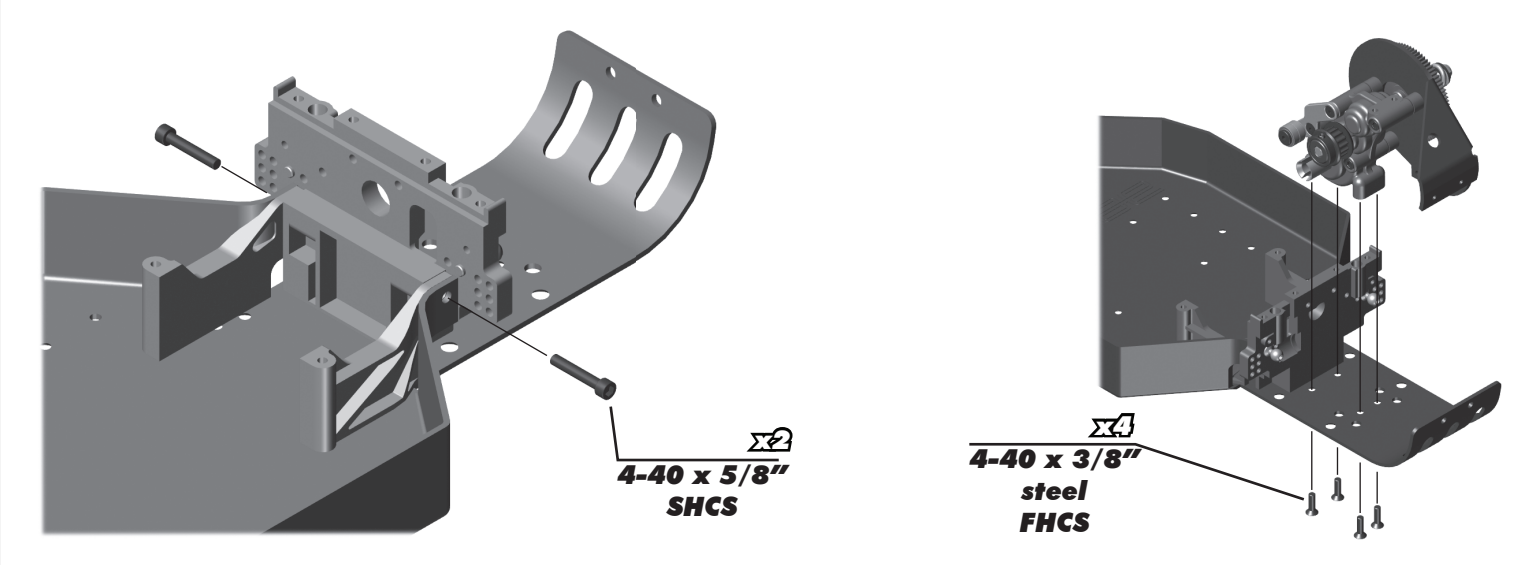
:: Front Suspension Build - Bag C - Step 7



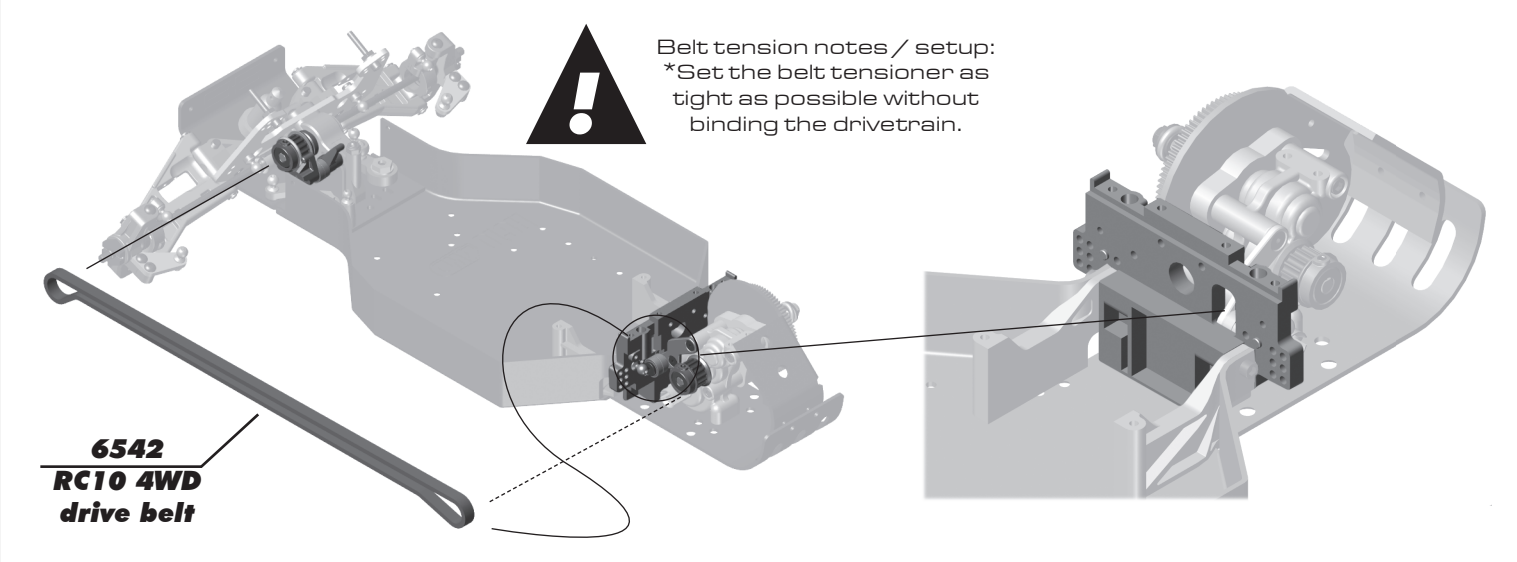
:: Rear Bulkhead Build - Bag D - Step 1



:: Rear Bulkhead Build - Bag D - Step 2



:: Rear Bulkhead Build - Bag D - Step 3



:: Rear Bulkhead Build - Bag D - Step 4

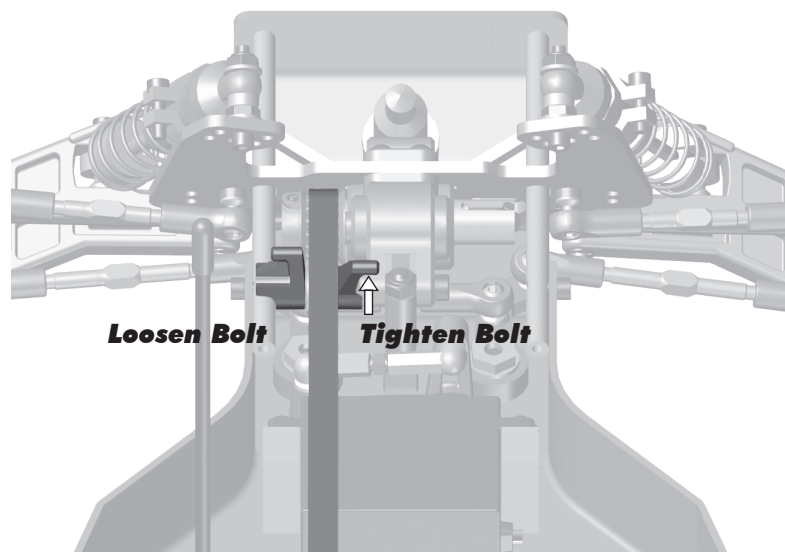


Belt Tensioner:

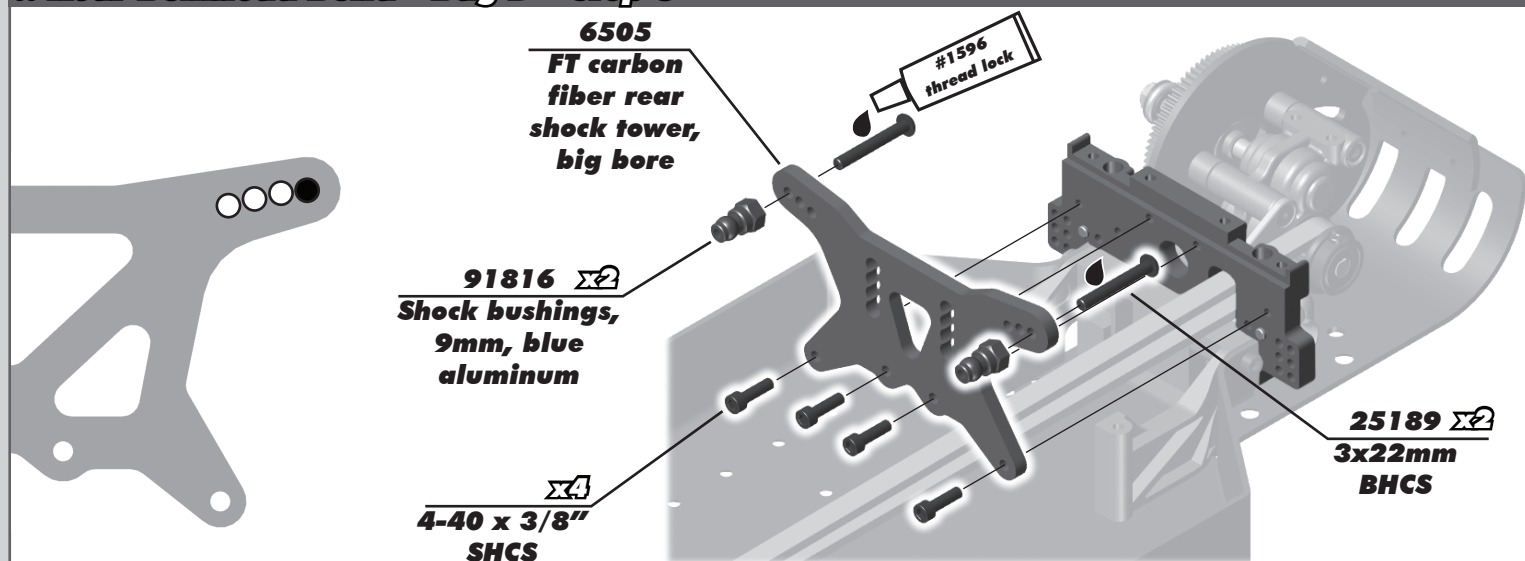
The belt tension is adjustable. The "inner" lever is the adjustment Lever. To tighten the belt, loosen the main bolt on the tension system and rotate the adjustment lever towards the front of the vehicle.

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.

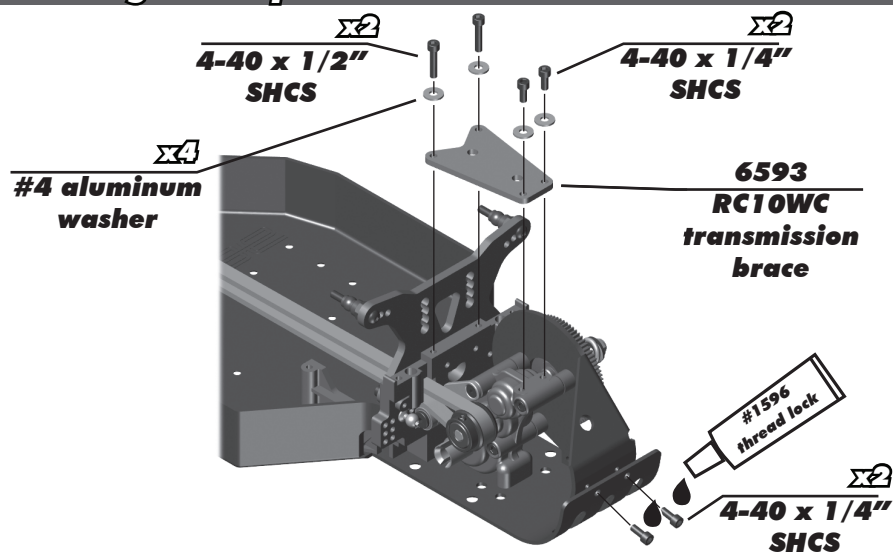
The outer lever is a guide for the belt. For a new car / belt, it is recommended to start around 12 O Clock on the adjustment lever.
(Straight up and Down)



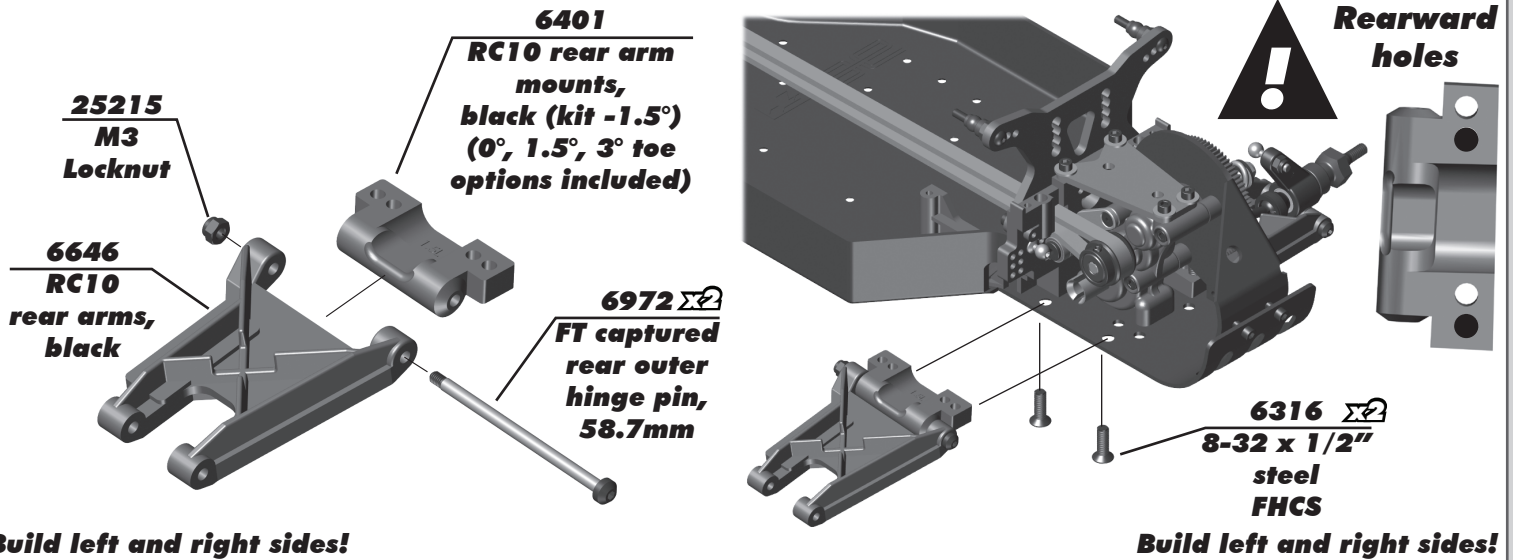
:: Rear Bulkhead Build - Bag D - Step 5



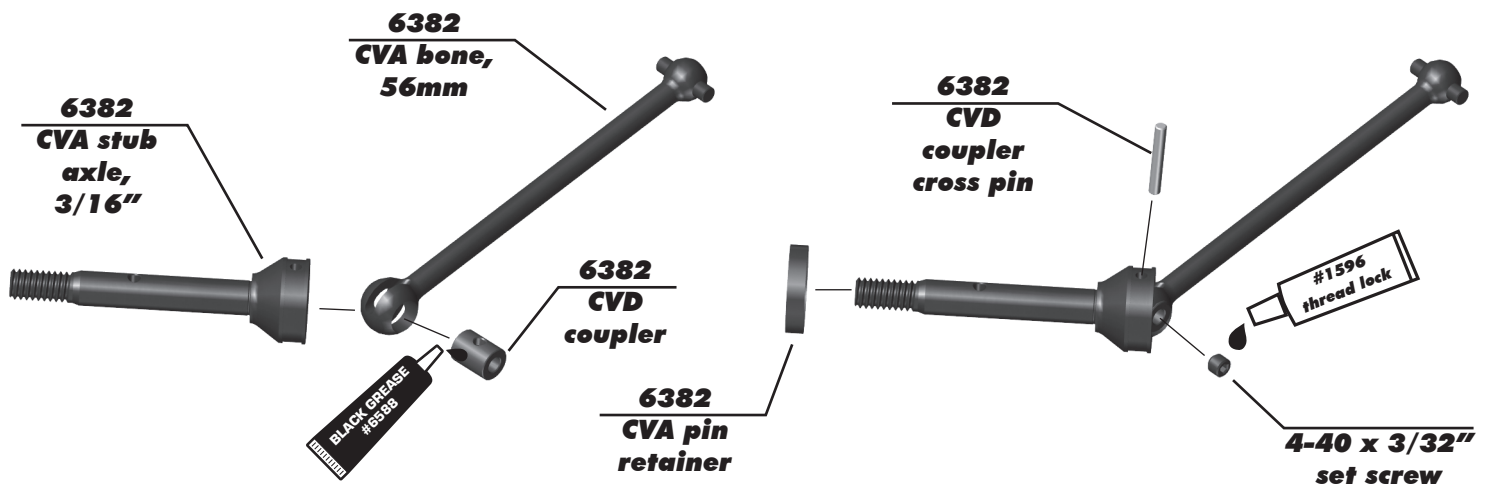
:: Rear Bulkhead Build - Bag D - Step 6



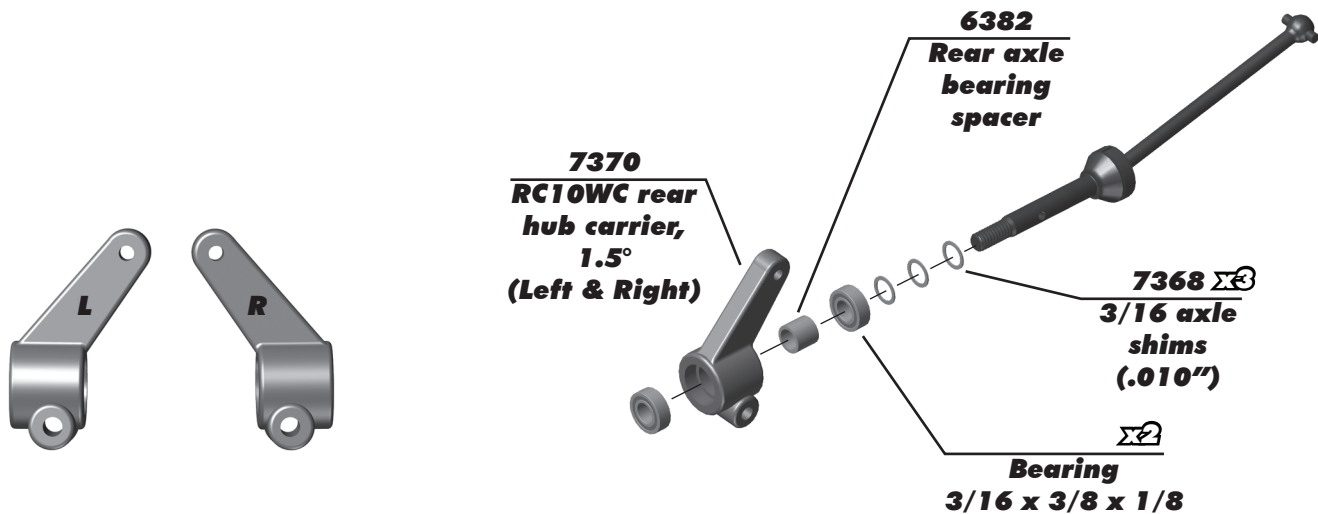
:: Rear Suspension Build - Bag E - Step 1



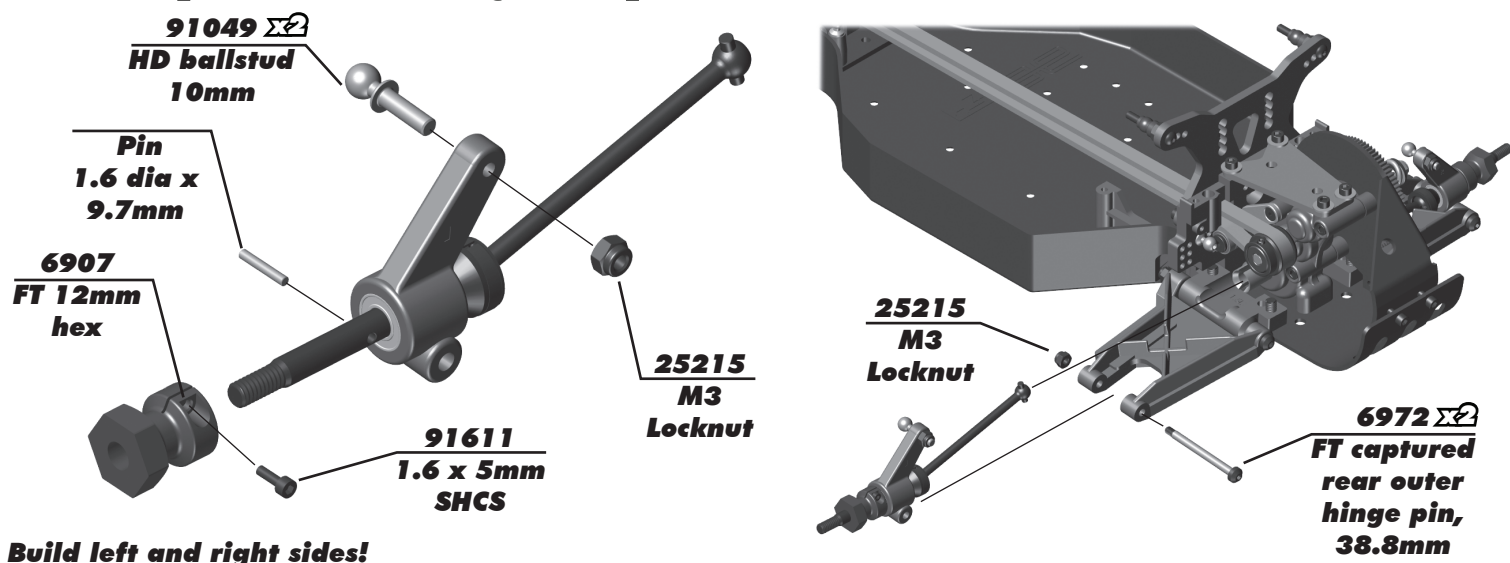
:: Rear Suspension Build - Bag E - Step 2



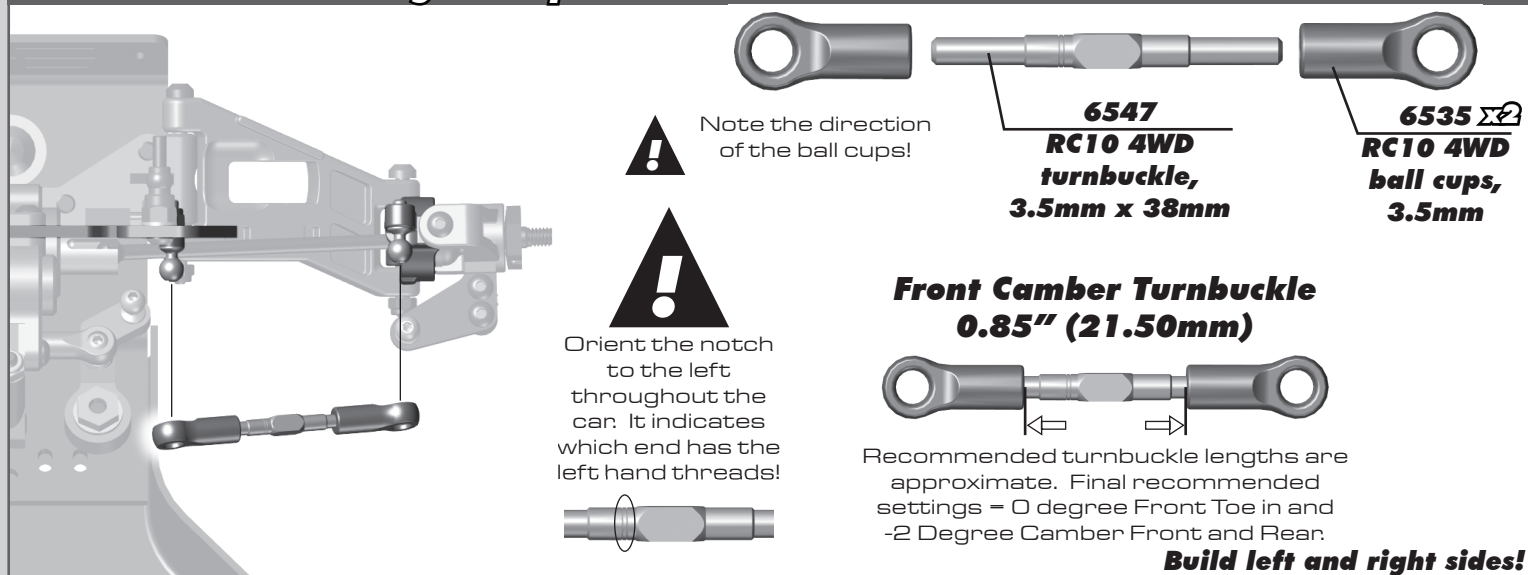
:: Rear Suspension Build - Bag E - Step 3



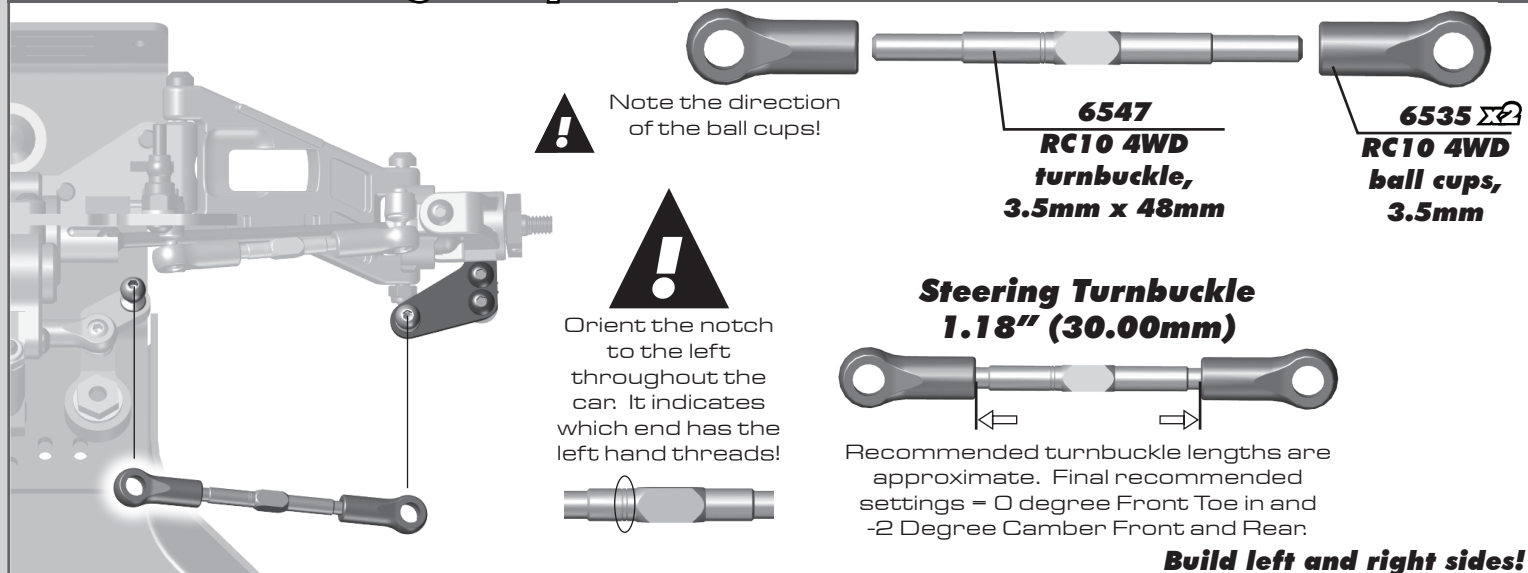
:: Rear Suspension Build - Bag E - Step 4



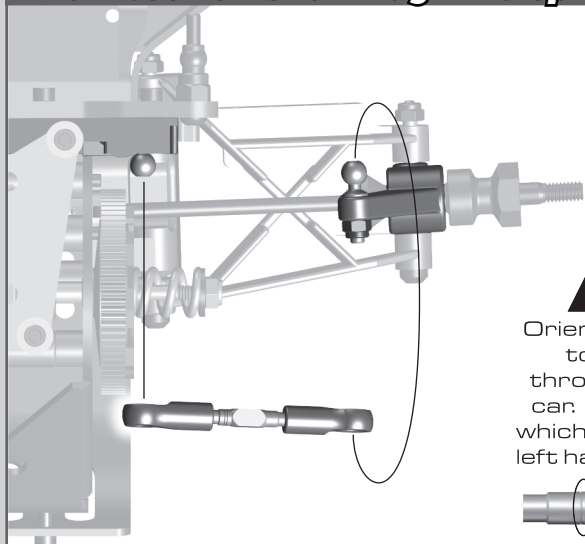
:: Turnbuckle Build - Bag F - Step 1



:: Turnbuckle Build - Bag F - Step 2



:: Turnbuckle Build - Bag F - Step 3



Note the direction of the ball cups!



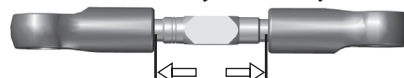
Orient the notch to the left throughout the car. It indicates which end has the left hand threads!



6547
RC10 4WD
turnbuckle,
3.5mm x 33mm

6535
RC10 4WD
ball cups,
3.5mm

Rear Camber Turnbuckle 0.59" (15mm)



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!

:: Shocks Build - Bag G - Step 1

91934
FT 13mm
shock piston
2.5mm
(2x1.8)
"front"

31510
M2 x 4mm
BHCS

89278
2.5mm
washer



91615
V2 3x21mm
shock shaft
TiN "front"

Mount the shock pistons with the number facing up!



Racers Tip:

Use marker to mark over the numbers on the pistons to make them easily visible!

Build x2 front shocks!

92428
FT 13mm
shock piston
2.5mm
(2x1.9)
"rear"

31510
M2 x 4mm
BHCS

89278
2.5mm
washer



91619
V2 3x27.5mm
shock shaft
TiN "rear"

Build x2 rear shocks!

:: Shocks Build - Bag G - Step 2

91923
FT Fox
shock bodies
13x23mm, with
Genuine Kashima
Coat (front)



91996
13mm shock
cap o-ring

91493
X-ring

91996
13mm shock
spacer

91996
13mm shock
hat bushing

FT GREEN SLIME
#1105

31327
VCS3 shock
bottom cap

Build x2 front shocks!

Lightly rub shock fluid on the O-ring before installation!



Racers Tip:

Coating the O-rings with green slime [#1105] helps seal & reduce O-ring swell! Green slime is not included in kit!

91996
13mm shock
cap o-ring



91925
FT Fox
shock bodies
13x27.5mm, with
Genuine Kashima
Coat (rear)

91493
X-ring

91996
13mm shock
spacer

91996
13mm shock
hat bushing

FT GREEN SLIME
#1105

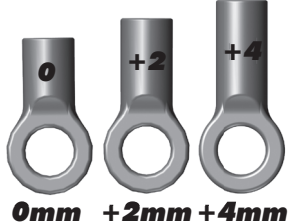
Build x2 rear shocks!

:: Shocks Build - Bag G - Step 3



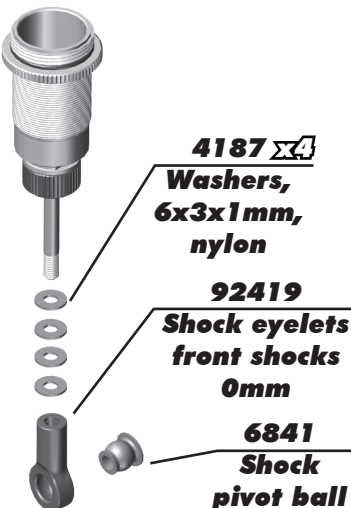
Shock fluid
FT GREEN SLIME #1105

There are 3 lengths of shock eyelet in the kit. Pay attention to length when building as these affect your droop and uptravel.



0mm +2mm +4mm

Lightly rub shock fluid or green slime on threads.



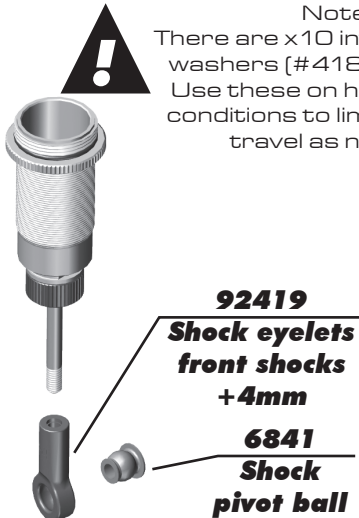
4187 x4
Washers,
6x3x1mm,
nylon

92419
Shock eyelets
front shocks
0mm

6841
Shock
pivot ball

Build x2 front shocks!

Note:
There are x10 internal limiter washers (#4187) included. Use these on high traction conditions to limit the down travel as needed.

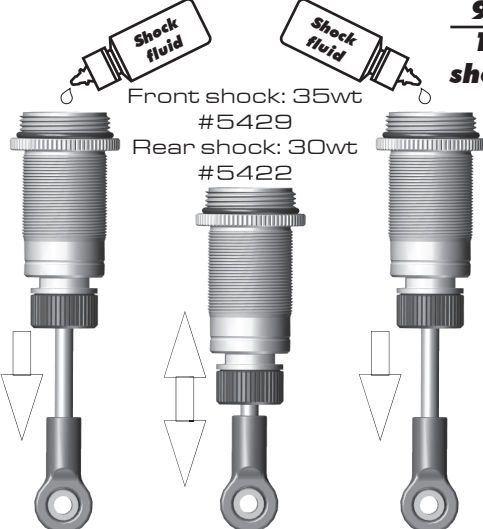


92419
Shock eyelets
front shocks
+4mm

6841
Shock
pivot ball

Build x2 rear shocks!

:: Shocks Build - Bag G - Step 4



Shock fluid

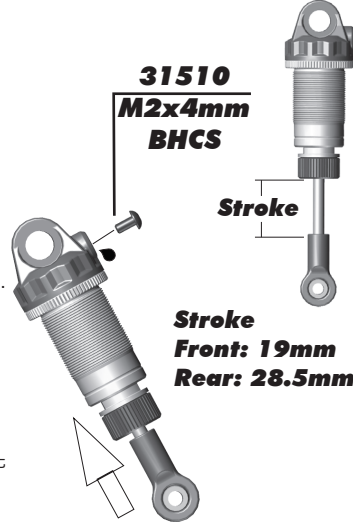
Front shock: 35wt #5429
Rear shock: 30wt #5422

91926
13mm
shock cap

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

Shock Bleeding Steps:

- 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.
- Pull shock shaft down.
- Fill shock body 3/4 full with silicone shock fluid.
- Slowly move the shock shaft up and down to remove air from under the piston.
- Wait for bubbles to come to surface.
- Fill shock body to top with silicone shock fluid.
- Place a drop of oil in the cap and on cap threads.
- Install cap (without bleed screw) and tighten completely.
- 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).
- Install button head screw until snug while shaft is fully compressed.



31510
M2x4mm
BHCS

Stroke

Stroke
Front: 19mm
Rear: 28.5mm

Step 9-10

:: Shocks Build - Bag G - Step 5



91996 x4
13mm
threaded
collar
O-ring

91928 x4
13mm
threaded
collar

Build x4

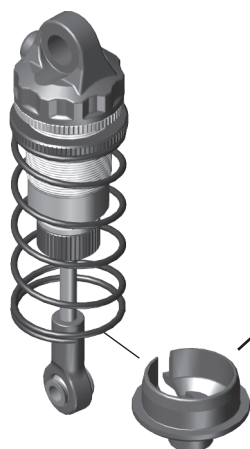


91923
13mm front
spring, blue
(3.6lb/in)

Racers Tip:
Use your finger to rub shock fluid on the O-ring for smoother adjustment!



91950
13mm rear
spring, blue
(2.2lb/in)

:: Shocks Build - Bag G - Step 6

91966
13mm shock
spring cup
(front - 5mm)



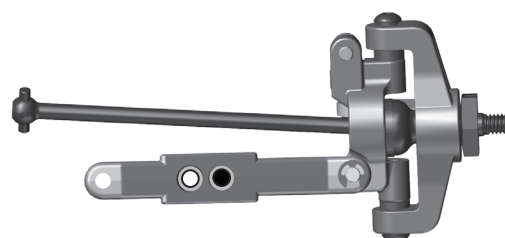
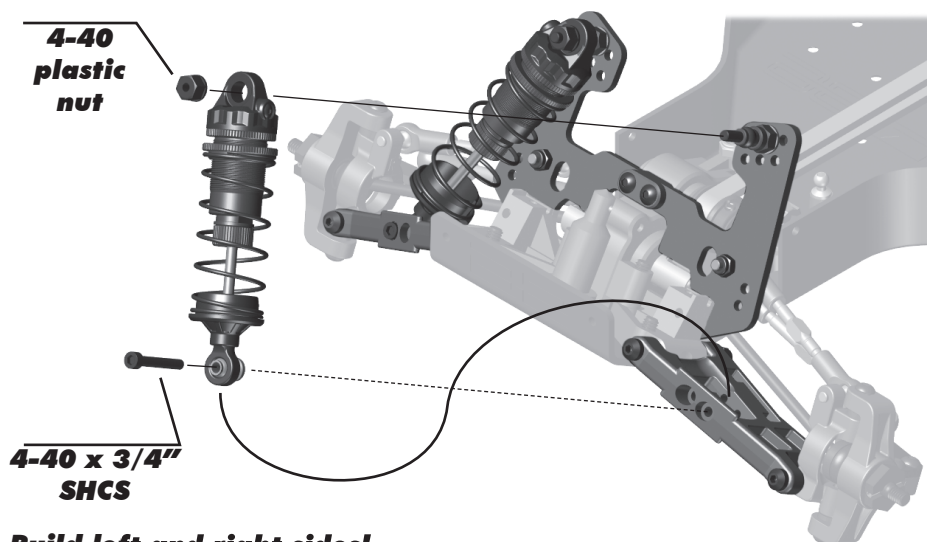
#91966 13mm Shock Spring Cups



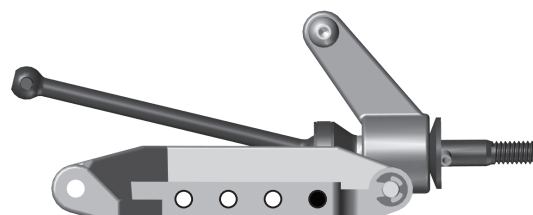
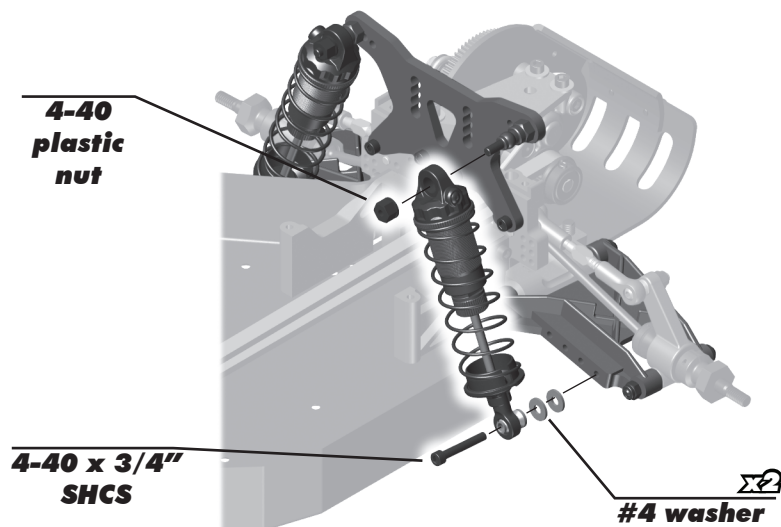
91966
13mm shock
spring cup
(rear - 0mm)

Build x2 front shocks!

Build x2 rear shocks!

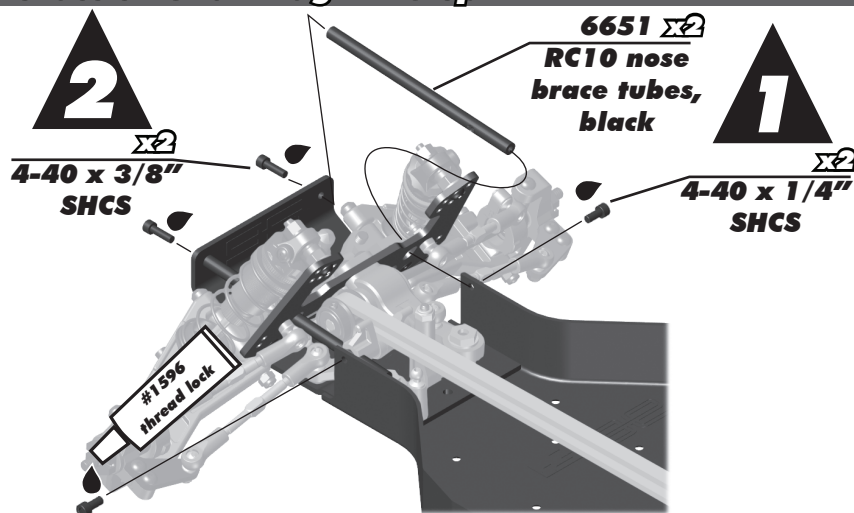
:: Shocks Build - Bag G - Step 7

Build left and right sides!

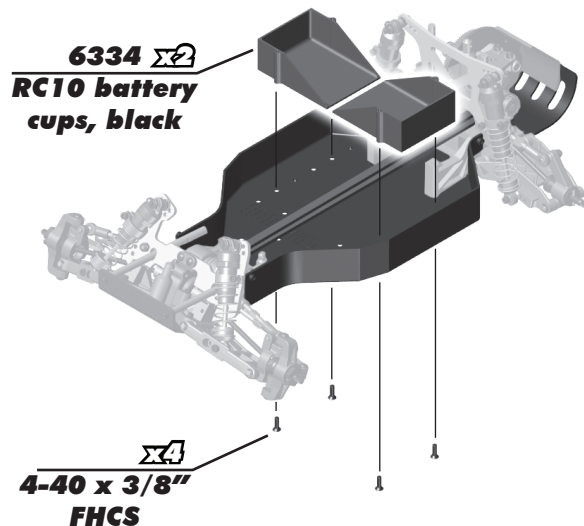
:: Shocks Build - Bag G - Step 8

Build left and right sides!

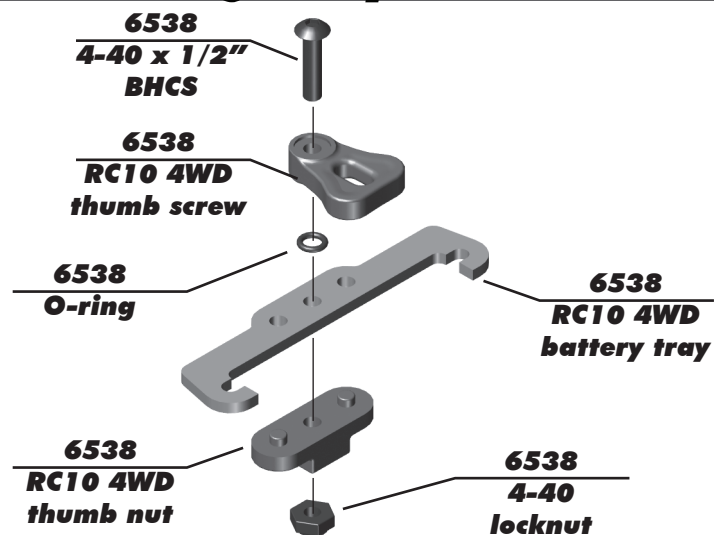
:: Chassis Build - Bag H - Step 1



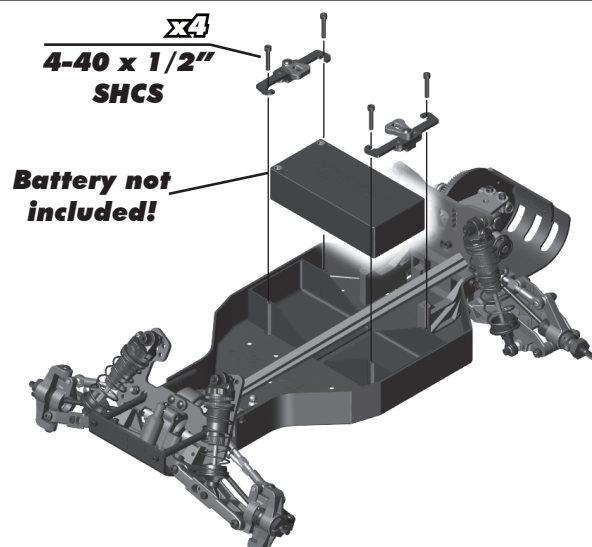
Build left and right sides!



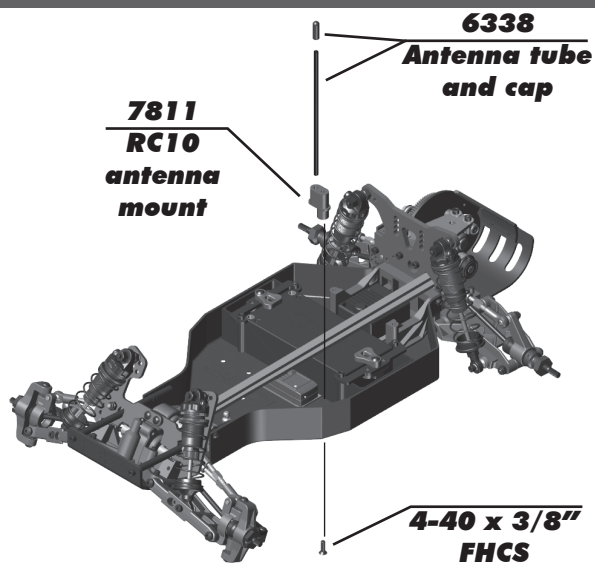
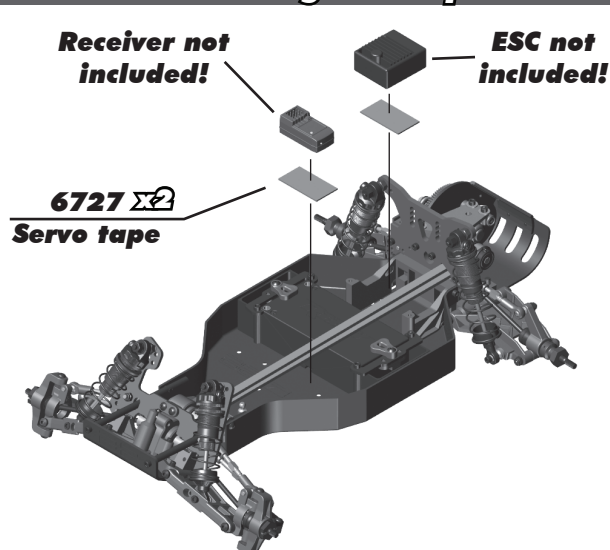
:: Chassis Build - Bag H - Step 2



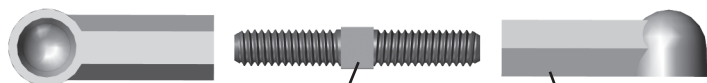
Build x2!



:: Chassis Build - Bag H - Step 3



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



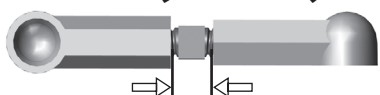
6547
RC10 4WD
turnbuckle,
4-40mm x 19mm

x2
Ball cups,
black



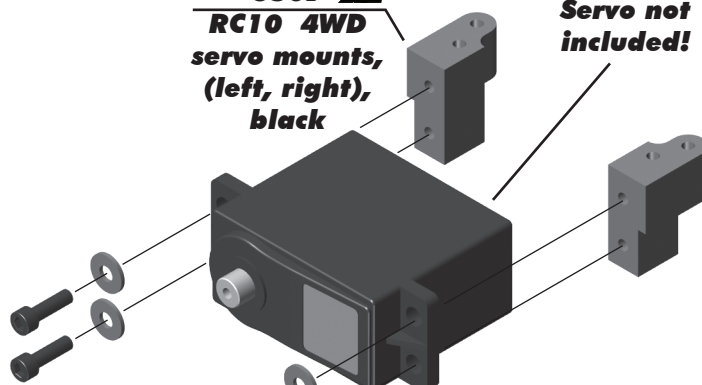
Note the direction
of the ball cups!

Servo Turnbuckle
0.19" (5.00mm)



6509 x2
RC10 4WD
servo mounts,
(left, right),
black

Servo not
included!



x4
4-40 x 3/8"
SHCS

x4
#4 aluminum
washer

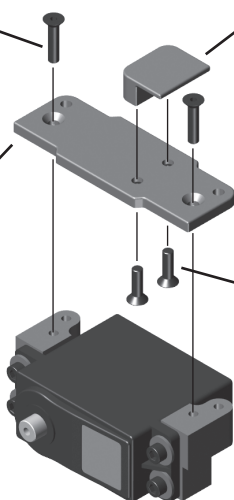
:: Servo / Chassis Stiffeners Build - Bag I - Step 2

x2
4-40 x 1/2"
FHCS

6509
RC10 4WD
belt separator,
black

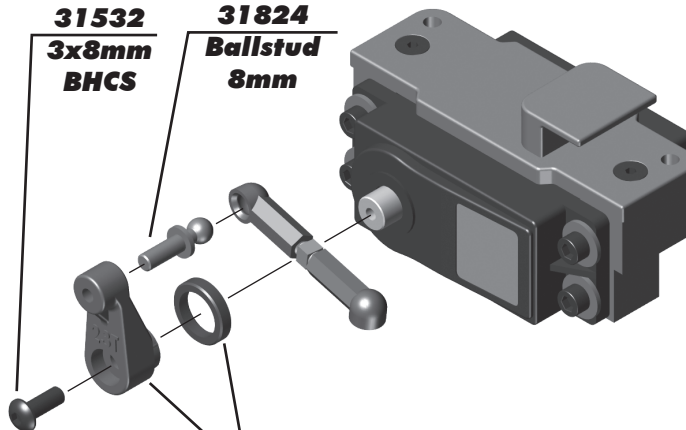
6509
RC10 4WD
transponder
brace, black

x2
4-40 x 3/8"
FHCS



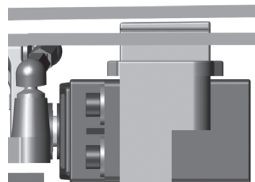
31532
3x8mm
BHCS

31824
Ballstud
8mm



91728
Servo horn
and ring

:: Servo / Chassis Stiffeners Build - Bag I / F - Step 3



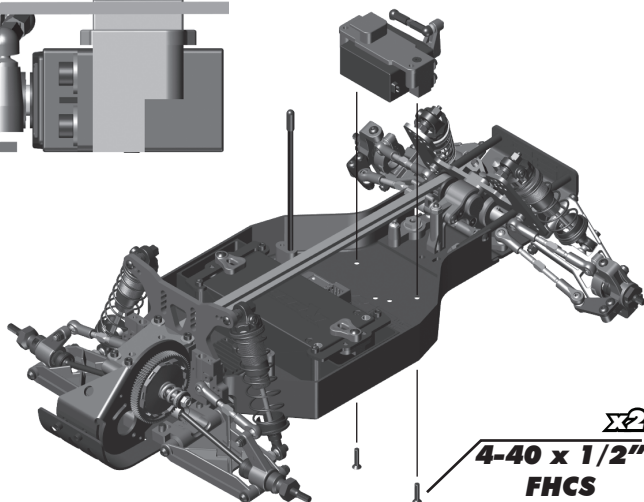
6535 x2
Rod end

6510
Chassis
brace tube,
black

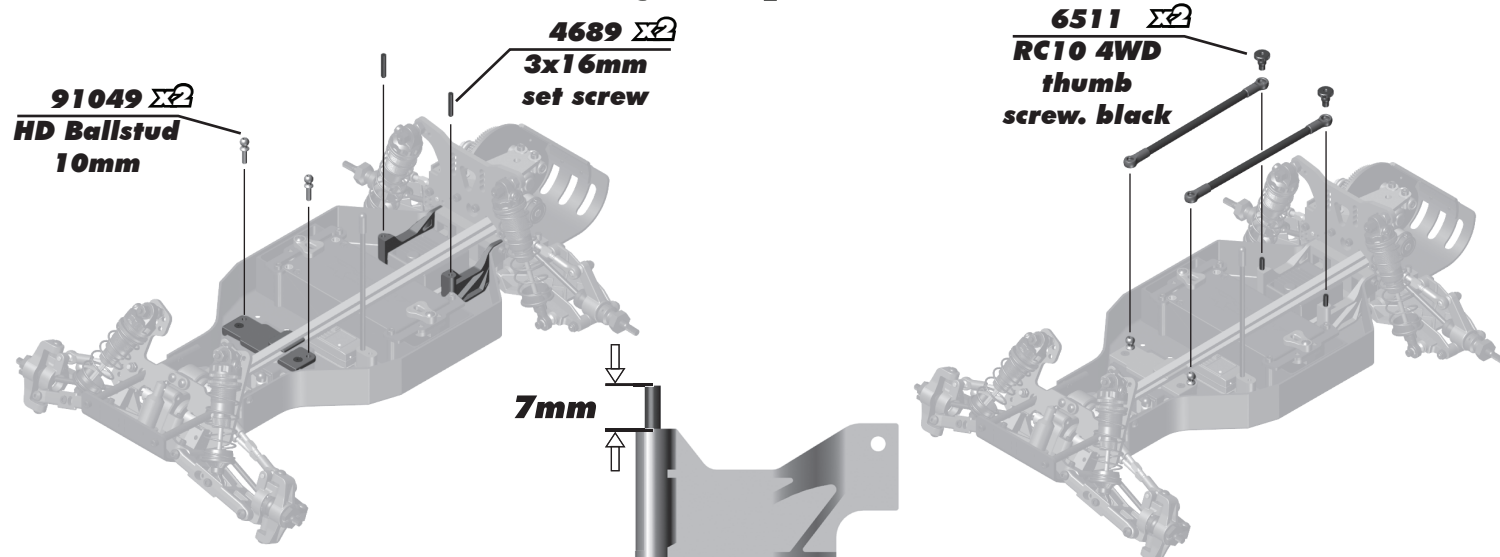
Chassis Brace
3.42" (87mm)



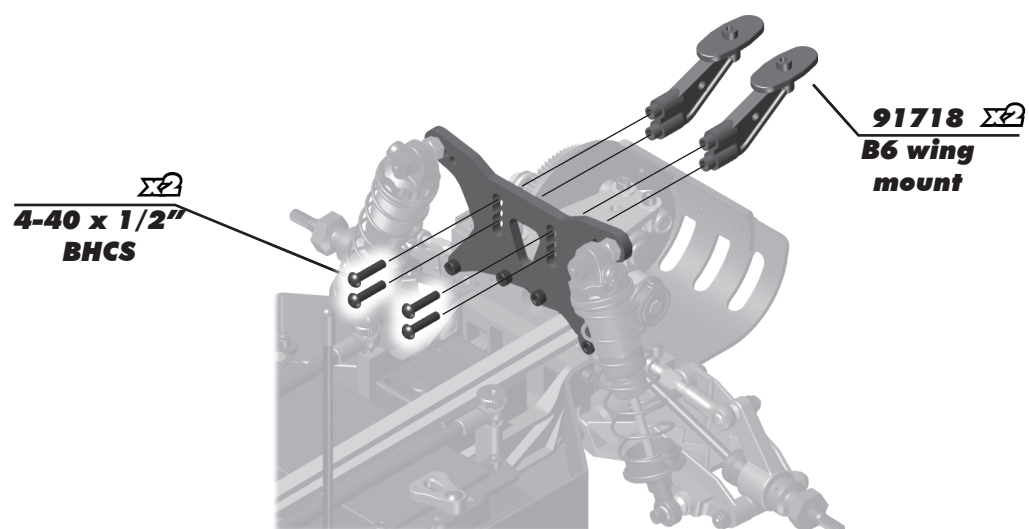
x2
4-40 x 1/2"
FHCS



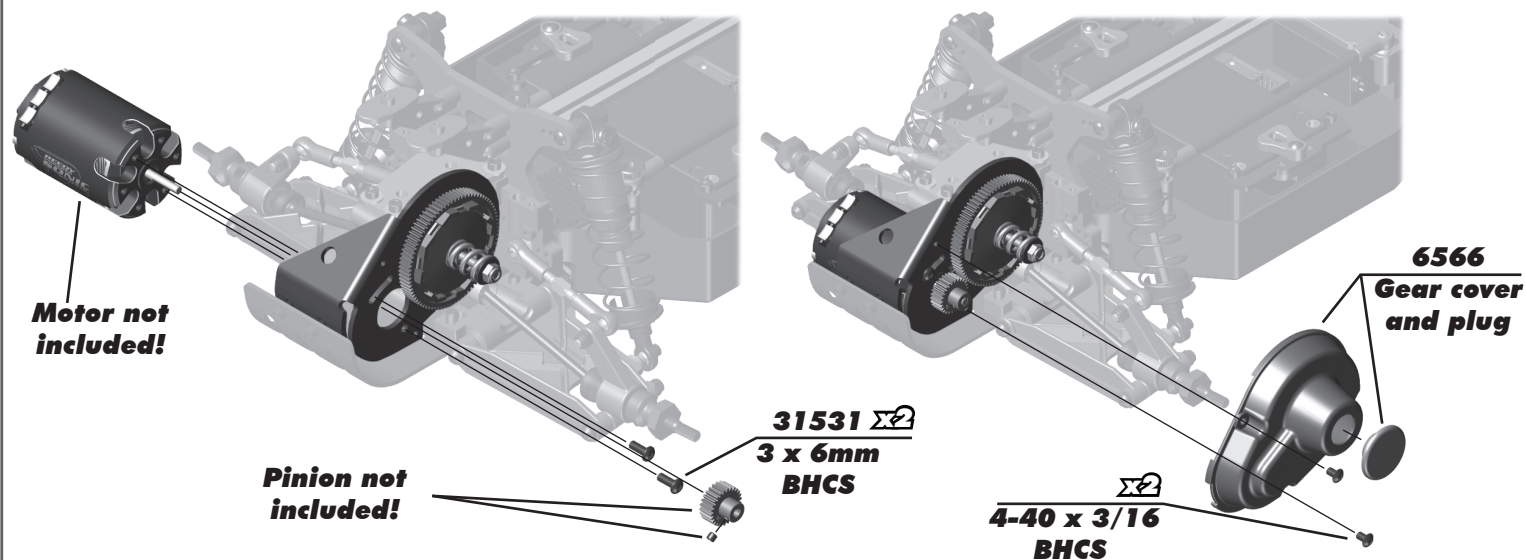
:: Servo / Chassis Stiffeners Build - Bag I - Step 4



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



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



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



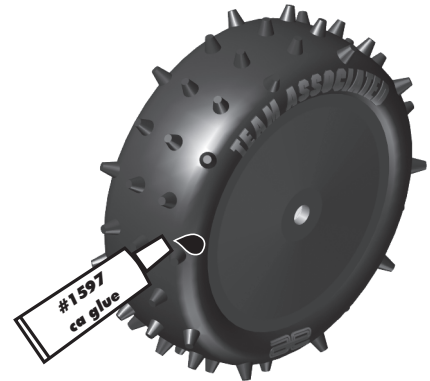
**Tires and inserts
not included!**



**92095
4WD Front
Wheels, 2.2 in,
12 mm Hex,
white**



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!



Build 2

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



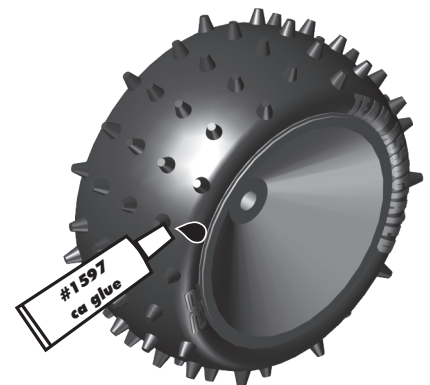
**Tires and inserts
not included!**



**9695
2wd/4wd
2.2" rear
wheel, white**

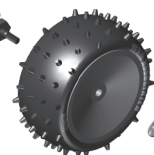
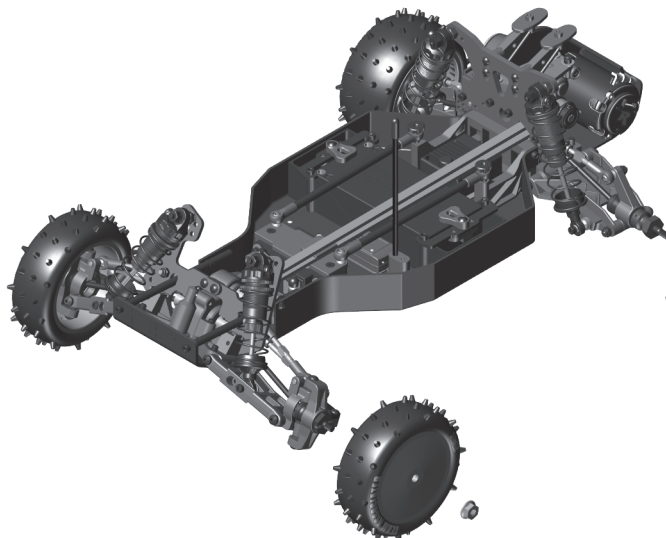


Clean the tire and wheel bead.
Carefully apply CA glue (tire adhesive)
to the tire bead on both sides.
Do one side at a time, allow it to dry
before gluing the other side!
CA glue not included!



Build 2

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



**X2
8-32 serrated
flange hex nut**

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

6332
Body
clip

6720
Mirage
Pro body
clear

92424
B7 Wing, 7"
clear

4-40 x 3/8"
FHCS

91718
B6 wing
buttons

91718
B6 wing
spacer

91743
Hook and
loop tape



You can install hook and loop tape to the inside of the body and sides of the chassis for body mounting. Use with or instead of the traditional body mounts.

:: Notes

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).

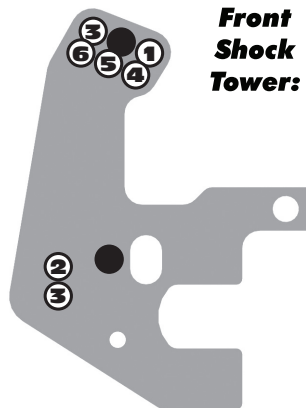
NOTE: use ONLY paint that is recommended for use with (polycarbonate) plastics. If you do not, you can destroy the plastic body and wing!!!!]. It is recommended to wear a mask while painting.

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, wing mounts, and antenna!

TEAM ASSOCIATED RC10 4WD SETUP SHEET

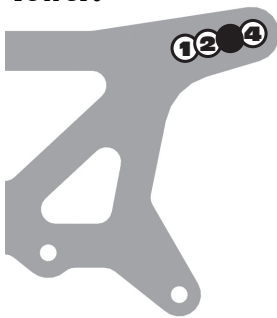
Driver: Andrew Smolnik (3rd Place) **Date:** October 19, 2025
Track: New Orleans Arena, Las Vegas **Event:** AE Vintage Champs
Conditions: Indoor ☒ Outdoor ☐ **Temp.** _____ **Rev.1**

Shock Towers



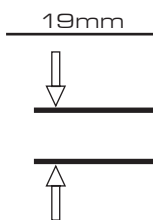
Front Shock Tower:

Rear Shock Tower:

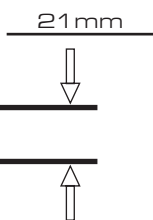


Ride Height / Wheelbase

Front Ride Height:



Rear Ride Height:



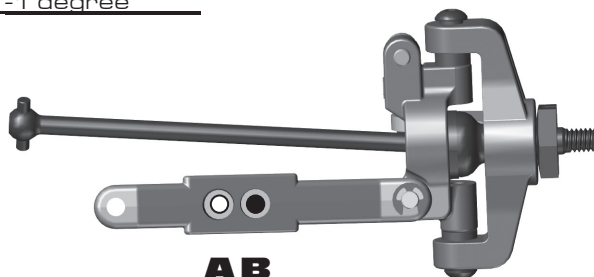
Wheelbase:
Short
Long



Front Suspension

Camber: -1 degree

Toe: -1 degree



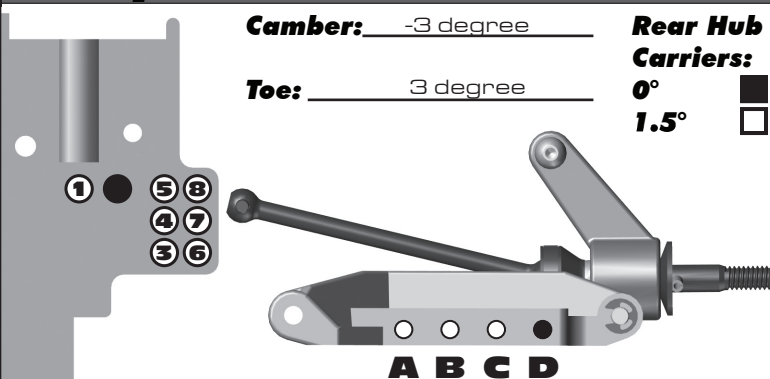
A B

Rear Suspension

Camber: -3 degree

Toe: 3 degree

Rear Hub Carriers:
0° ☒
1.5° ☐



A B C D

Front Shocks

Spring: Blue, 3.6lb #91923 **Piston:** 1.8mm x2 flat
Shock Oil: 32wt **Limiter:** 3 int.
Shock End: +0 Short **Stroke:** 20mm

Rear Shocks

Spring: Red, 2.4lb #91957 **Piston:** 1.9mm x2 flat
Shock Oil: 27wt **Limiter:** 0
Shock End: +2mm **Stroke:** 28mm

Motor / Battery

Motor & Wind: Reedy Sonic SP5 13.5 #27489
Pinion: 24T **Spur Gear:** 81T
Battery: Reedy Zapper ULP 6200mAh 140c #27616
Notes: Long pack, inline

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: Added four #8 washers under front rear arm mounts to reduce front kickup

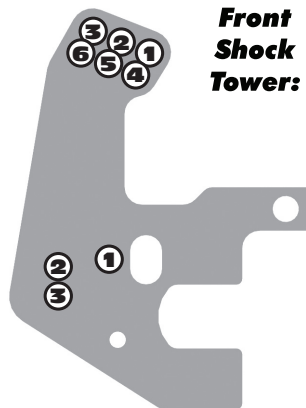
Track Info

Surface:	Traction:	Conditions:	Moisture:
Dirt ☒	Low ☐	Grooved ☒	Wet ☐
Carpet ☐	Med ☒	Dusty ☒	Damp ☐
Astro ☐	High ☐	Smooth ☐	Dry ☒
Multi ☐		Bumpy ☒	
		Hard Pack ☐	
		Loamy ☐	

TEAM ASSOCIATED RC10 4WD SETUP SHEET

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

Shock Towers



Front Shock Tower:

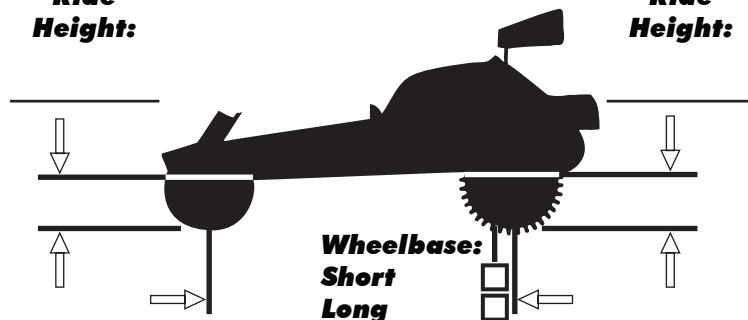
Rear Shock Tower:



Ride Height / Wheelbase

Front Ride Height:

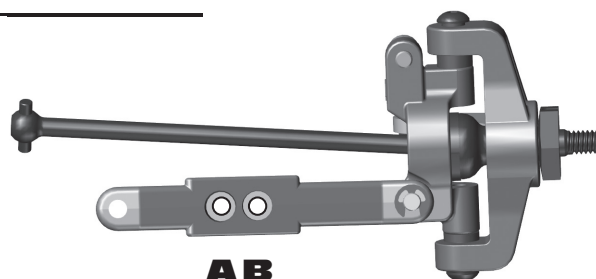
Rear Ride Height:



Front Suspension

Camber: _____

Toe: _____



A B

Rear Suspension

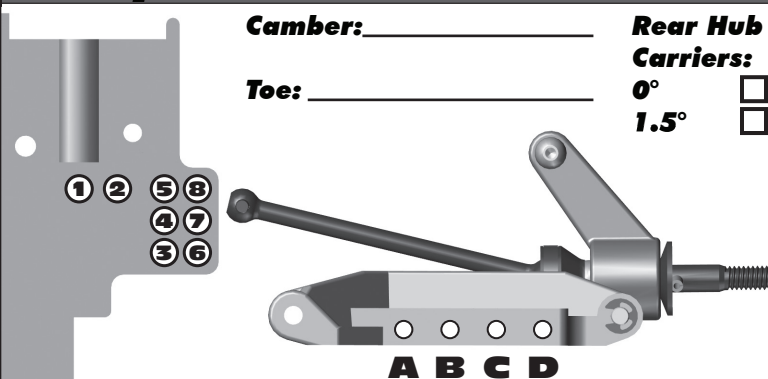
Camber: _____

Toe: _____

Rear Hub Carriers:

0° ☐

1.5° ☐



A B C D

Front Shocks

Spring: _____ Piston: _____

Shock Oil: _____ Limiter: _____

Shock End: _____ Stroke: _____

Rear Shocks

Spring: _____ Piston: _____

Shock Oil: _____ Limiter: _____

Shock End: _____ Stroke: _____

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