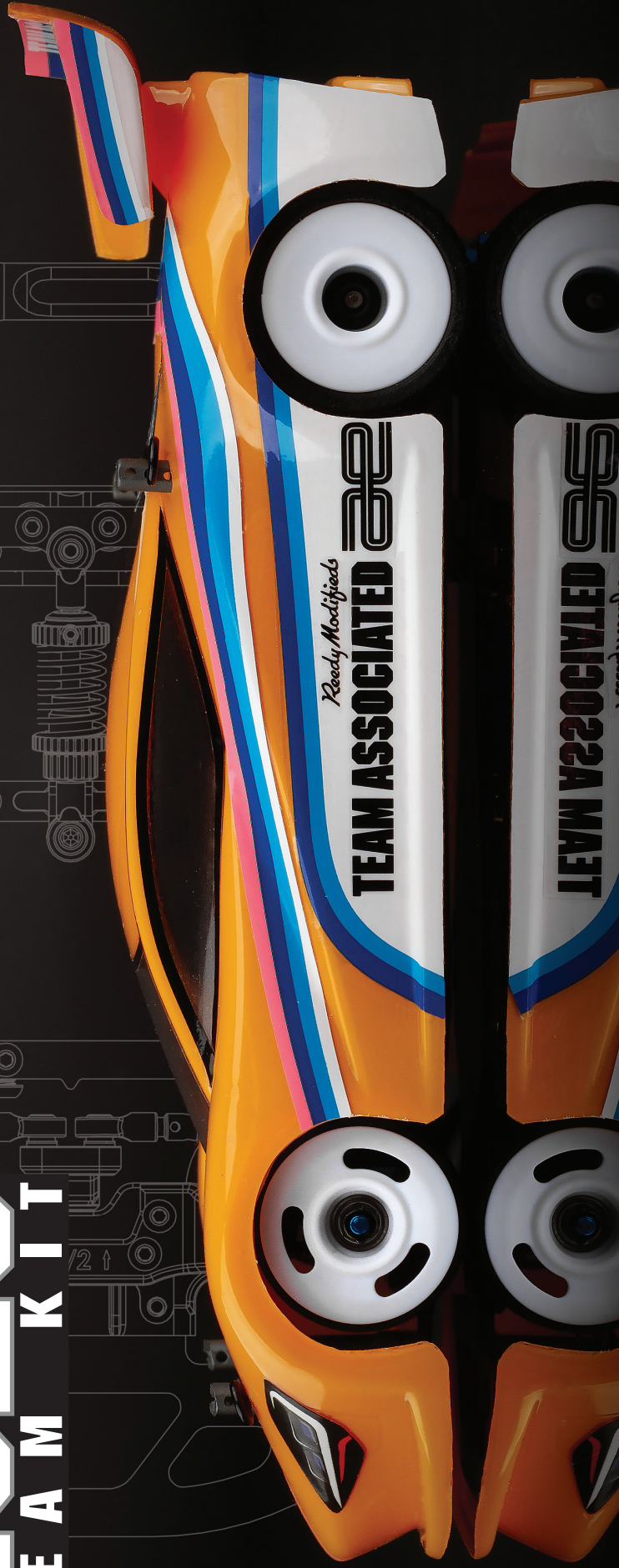


# RC28

## TEAM KIT

1:28 Scale 2WD Electric  
On Road Competition Kit



# TEAM ASSOCIATED



1:28 Scale 2WD Electric On Road Competition Kit Manual

#20165 RC28R Team Kit



[AssociatedElectrics.com](http://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 vehicle. Please take a moment to read through the manual and familiarize yourself with the steps. We are continually changing and improving our designs; therefore, actual parts may appear slightly different than 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.

Check [www.rc10.com](http://www.rc10.com) for the latest versions of our instruction manuals.

## :: RC28R Features

- Steel chassis plate for low center of gravity
- Fixed arm style front end with optional molded upper arms to adjust castor and camber
- Front bulkhead design allows for quick upper arm changes with consistent fitment and position
- Optimized steering geometry with adjustable servo mount to tune ackerman on the fly
- Easily removable battery holder to access the battery without removing center shock
- Torsion style side links act as side spring with soft, medium, and hard options included
- Adjustable rear pod roll center inserts to tune roll characteristics to grip level
- Optimized roll geometry with side damper tubes
- Threaded aluminum center shock with adjustable droop and spring collar
- Two-piece rear pod with adjustable axle heights for different tire diameters and ride heights utilizing Factory Team carbon fiber shims
- Gear differential included but can fit other aftermarket options currently available
- Hard plastic and polycarbonate body mounting options included
- White wheels included that fit optional front wheel flanges to tune steering feel
- Universal front bumper included
- Team Associated's quality, distribution, support, and customer service

## :: Additional

Your new RC28R Kit comes unassembled and requires the following items for completion (refer to [AssociatedElectrics.com](http://AssociatedElectrics.com) for suggestions):

- |  |   |
|--|---|
| • R/C two channel surface frequency radio system | • Battery charger<br>(a peak detection charger, or LiPo compatible charger) |
| • AA-size batteries for transmitter              | • 2 cell LiPo battery pack  |
| • Electronic Speed Control ("ESC")               | • Polycarbonate specific spray paint  |
| • Steering servo                                 | • Cyanoacrylate glue ("CA") (#1697)   |
| • R/C electric motor                             | • Thread locking compound (#1596)   |
|  | • Tires   |
|  | • Pinion gear, size determined by type/turn or kV of motor                  |

## :: Other Helpful Items

- |  |   |
|--|---|
| • Silicone Shock Fluid (Refer to <a href="http://AssociatedElectrics.com">AssociatedElectrics.com</a> for complete listings) |   |
| • 4.5mm Nut Wrench   | • .050", 0.9mm, 1.3mm, 1.5mm Hex Wrenches |
| • FT Body Scissors (#1737)   | • FT Body Reamer (#1499)                  |
| • Calipers or a Precision Ruler  | • Soldering Iron                          |
|  | • Small Needle Nose Pliers                |
|  | • Hobby Knife                             |


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

Button Head (bhcs)

- 2x4mm (21666)
- 2x5mm (21666)

Shims and Washers

- 3.8x2x0.5mm (21649)
- 3.8x2x1mm (21650)
- 5x3x0.2mm (21644)
- 5.5x0.5mm (31381)
- 5.5x1.0mm (31382)
- 5.5x2.0mm (31383)



Flat Head (fhcs)

- 2x4mm (21667)
- 2x5mm (21667)
- 2x6mm (21667)

Phillips Head (phcs)

- 1 x 3mm (21669)
- 1 x 8mm (21669)

Ball Bearing / Axle Spacer

- 3x6x2.5mm (21643)
- 3x6x2.5mm (21653)

Nuts (lock/plain)

- M2 LockNut, Aluminum (21689)

Set Screws

- 2x3mm (21668)
- 2x6mm (21668)
- 3x3mm (25225)

Notes

## Table of Contents

1.....	Cover	10.....	Center Shock and Side Damper Build Bag 5
2.....	Introduction	11.....	Gear Differential Build Bag 6
3.....	1:1 Hardware “Fold Out” / Tuning Tips	12.....	Wheels / Tires / Electronics / Body Build Bag 7
4.....	Table of Contents	14.....	Setup Sheet “Kit Setup”
5.....	Chassis Build Bag 1	15.....	Setup Sheet “Blank”
7.....	Pivot Blocks Build Bag 2	16.....	Back Cover
7.....	Rear Pod Build Bag 3		
9.....	Front End Build Bag 4		

## Notes



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



This symbol indicates the number of the same part that is required.



This symbol indicates the order within a step to assemble parts.



This symbol indicates there are optional FT parts available



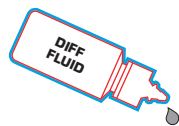
This symbol indicates a Racers Tip.



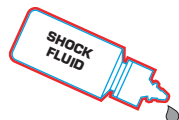
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.



This symbol indicates where Thread Lock Adhesive should be applied. \*not included



This symbol indicates where Diff Fluid should be applied.



This symbol indicates where Shock Fluid should be applied.



This symbol indicates where FT Silicone Grease should be applied. \*not included



This symbol indicates where FT Diff Lube should be applied. \*not included



This symbol indicates where Black Grease should be applied.



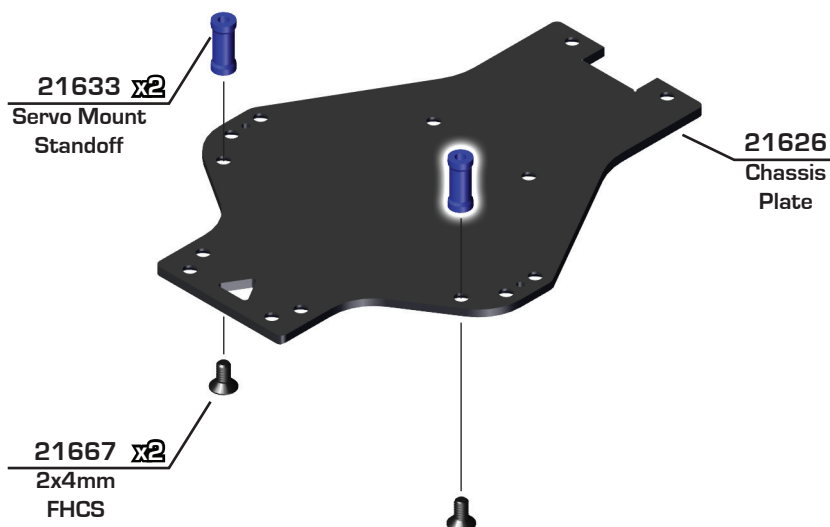
This symbol indicates where Green Slime can be applied. \*not included



### Bag 1 - Step 1



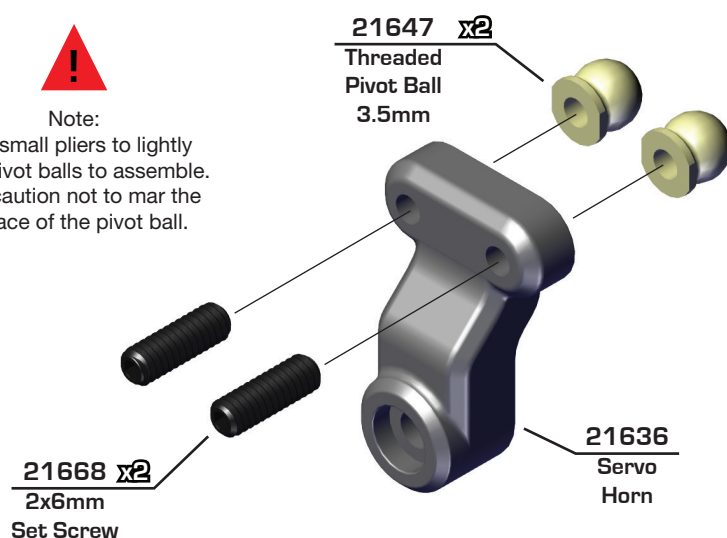
Hardware note:  
Some M2 hardware may use  
.050" hex instead of 1.3mm  
hex depending on the  
production batch.



### Bag 1 - Step 2



Note:  
Use small pliers to lightly  
hold pivot balls to assemble.  
Use caution not to mar the  
surface of the pivot ball.



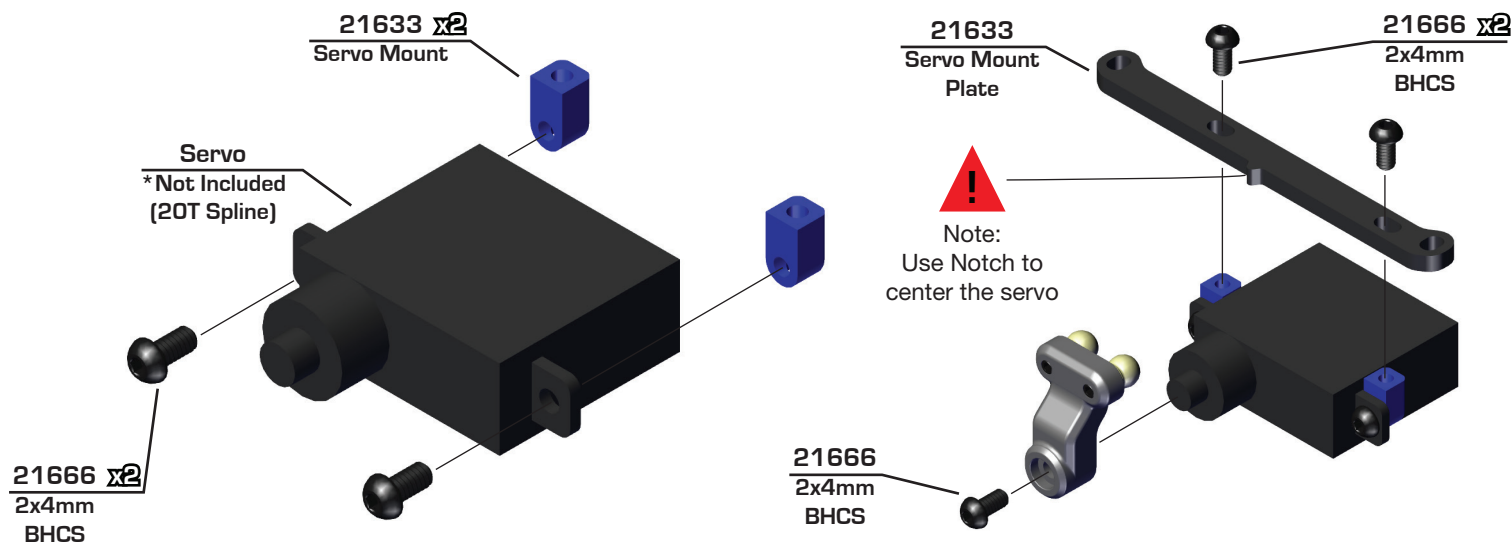
Note:  
Install set screws flush  
with servo horn!



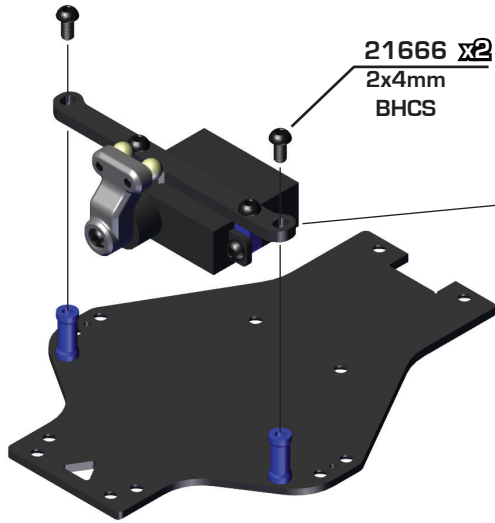
Note:  
Servo horn designed for 20T  
4mm diameter spline servo.



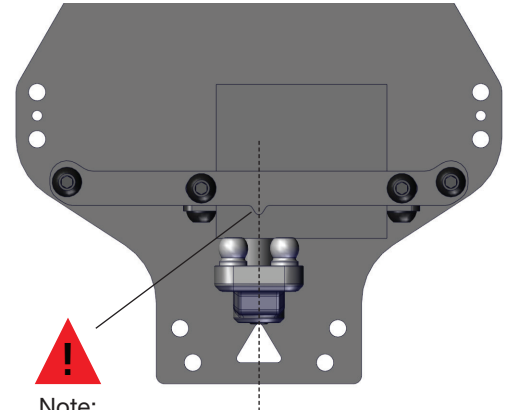
### Bag 1 - Step 3



### :: Bag 1 - Step 4



**!**  
Note:  
Servo mount can move  
front to back.  
Kit setup is forward!



Note:  
Use Notch to  
center the servo

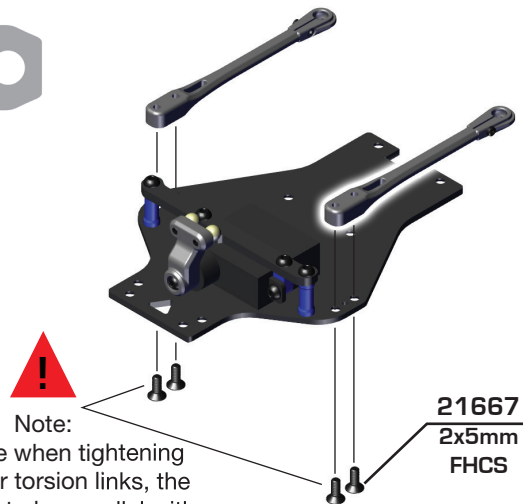
### :: Bag 1 - Step 5



Note:  
Torsion link shims included  
for using higher center pivot  
positions. 0.5mm for mid,  
1mm for high.

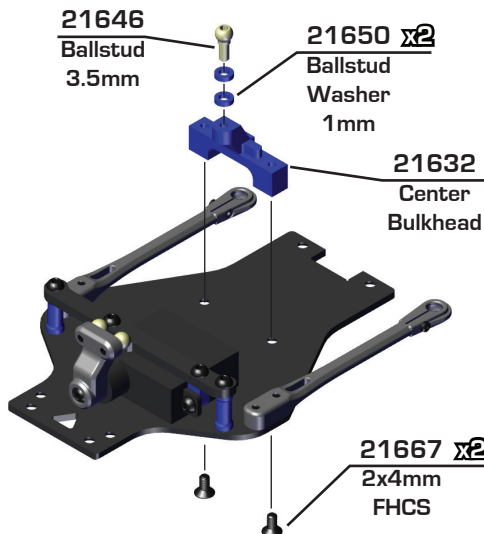


**!**  
Note:  
Leave loose. Use M1  
screw to remove play  
from torsion link pivot  
ball fitment.



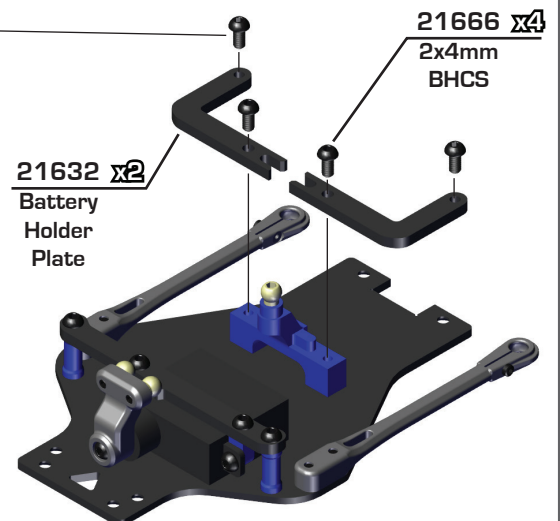
**!**  
Note:  
Take care when tightening  
screws for torsion links, the  
link needs to be parallel with  
the center line of the chassis.

### :: Bag 1 - Step 6

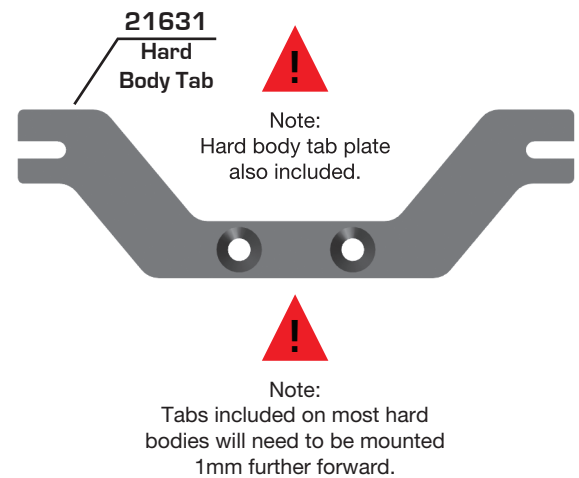
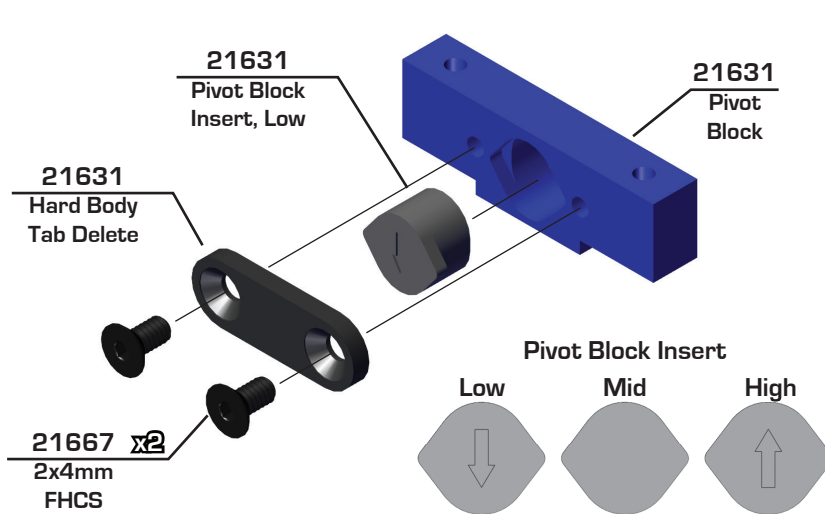


**!**  
Note:  
Screw in until flush with  
bottom of the holder.  
Take care to screw in  
straight.

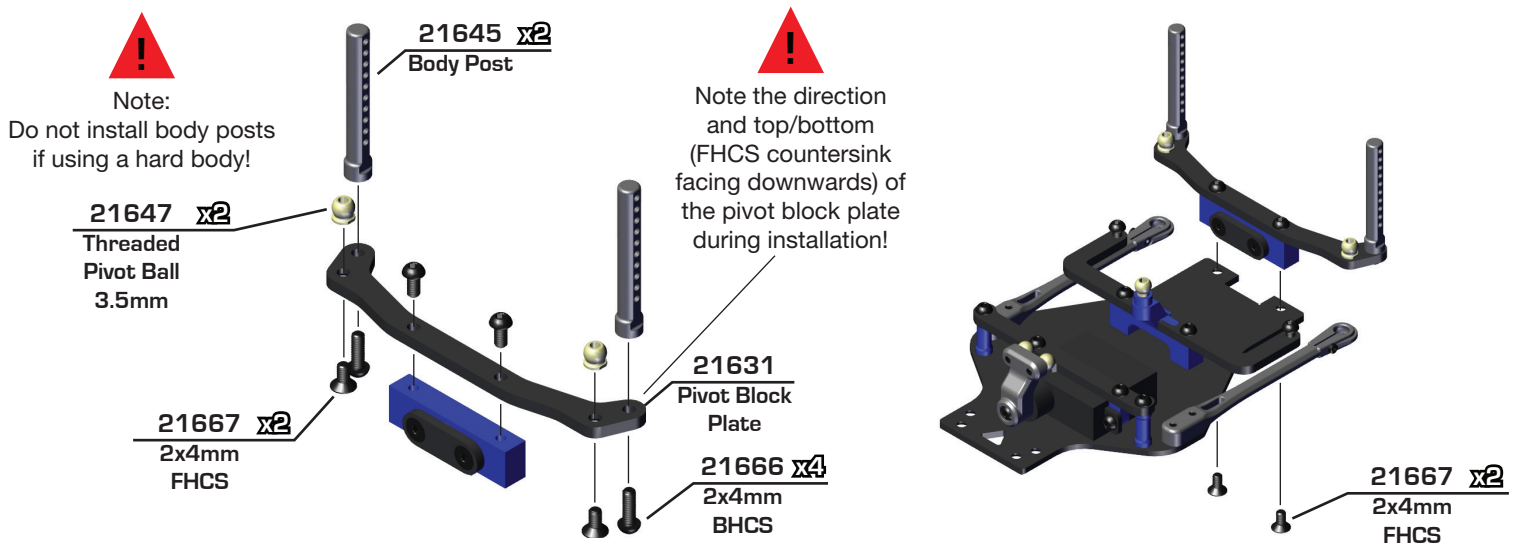
**!**  
Note:  
Set O-Ring aside for  
battery installation.



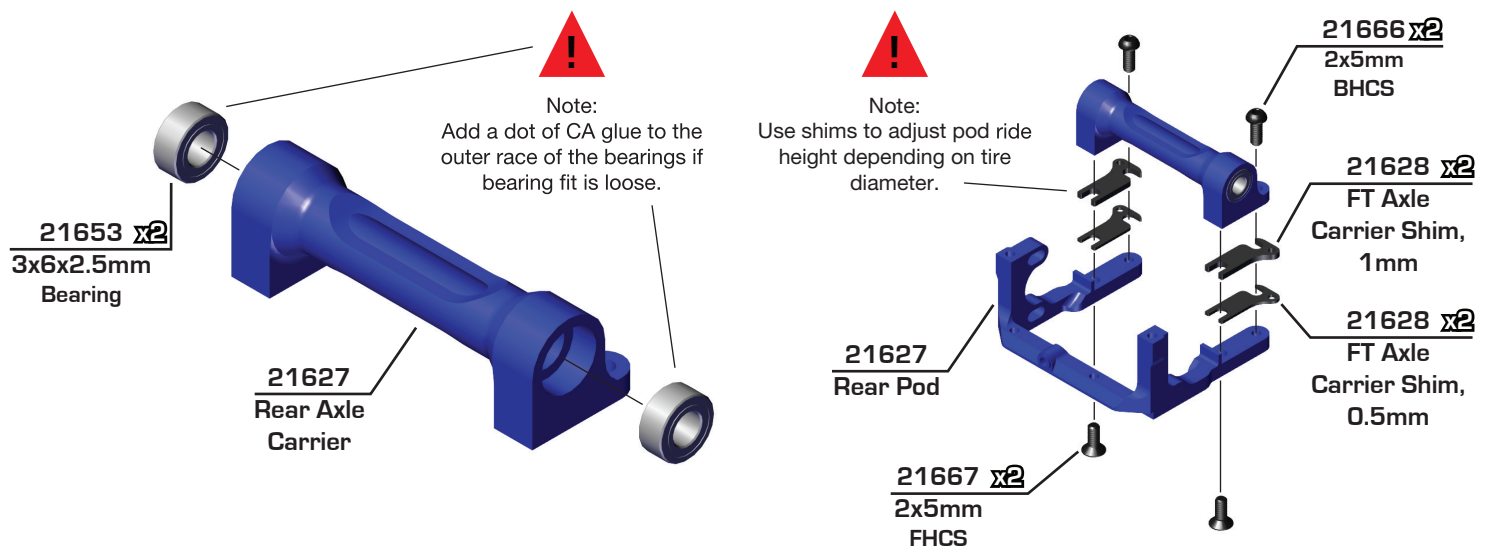
## :: Bag 2 - Step 1



## :: Bag 2 - Step 2



## :: Bag 3 - Step 1



### Bag 3 - Step 2

21647 x3  
Threaded  
Pivot Ball,  
3.5mm

21649  
Ballstud  
Washer,  
0.5mm

Note the direction of the  
upper pod plate

21666 x2  
2x4mm  
BHCS

21666 x3  
2x4mm  
BHCS

21629  
Upper  
Pod Plate

### Bag 3 - Step 3

21646  
Ballstud  
3.5mm

21647 x2  
Threaded  
Pivot Ball,  
3.5mm

21667 x4  
2x4mm  
FHCS

21629  
Lower Pod  
Plate

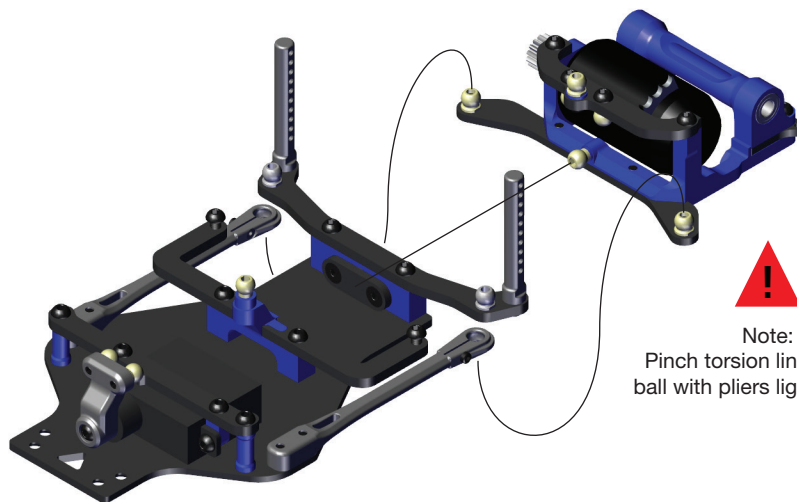
Note the direction  
and top/bottom  
(FHCS countersink  
facing downwards)  
of the lower pod plate.

Motor  
\*Not Included

Pinion and  
Set Screw  
\*Not Included

21666 x2  
2x5mm  
BHCS

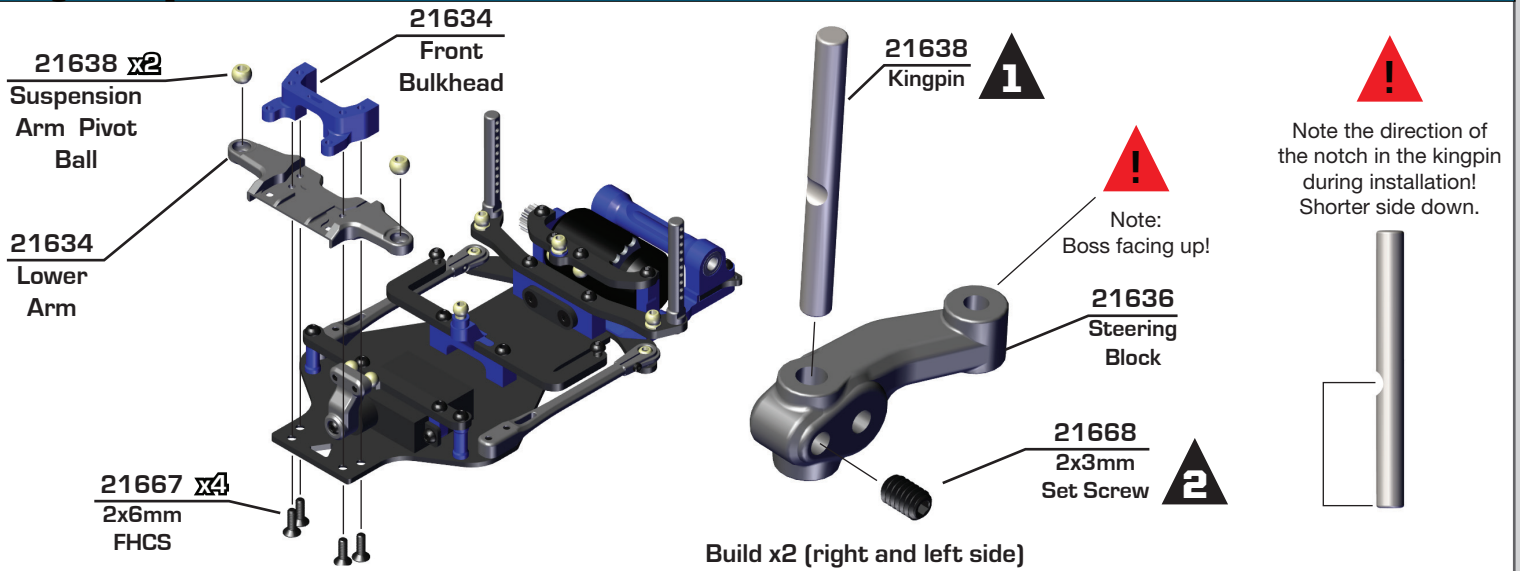
### Bag 3 - Step 4



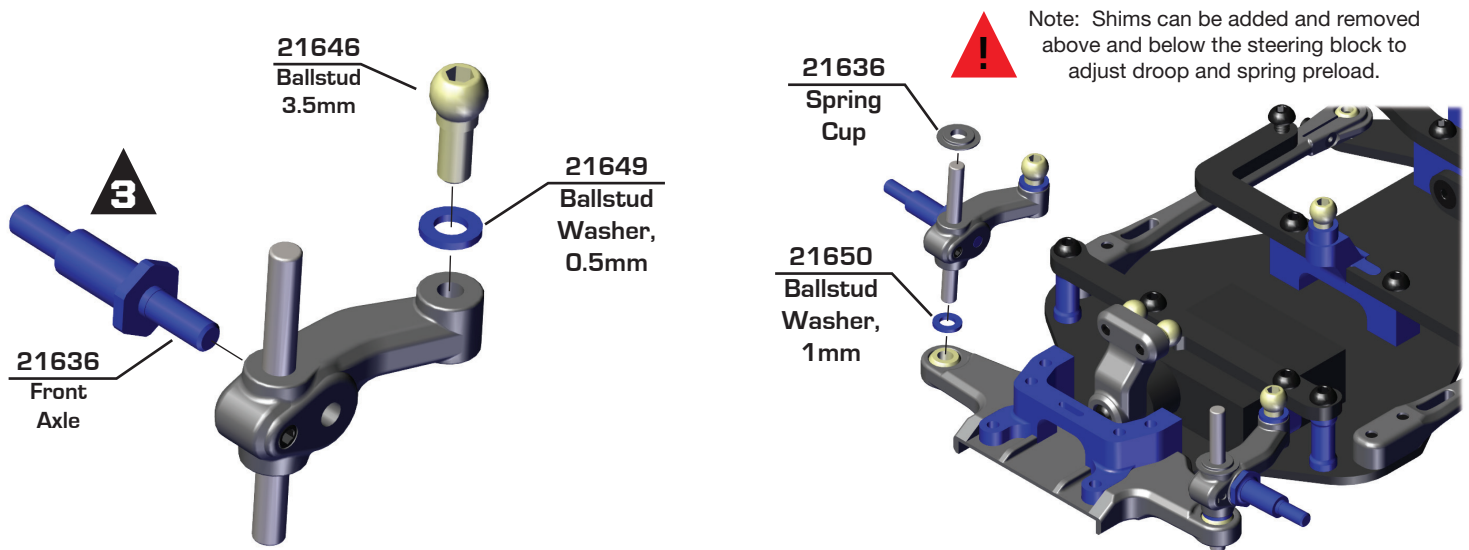
Note:  
Pinch torsion link on pivot  
ball with pliers lightly if tight.



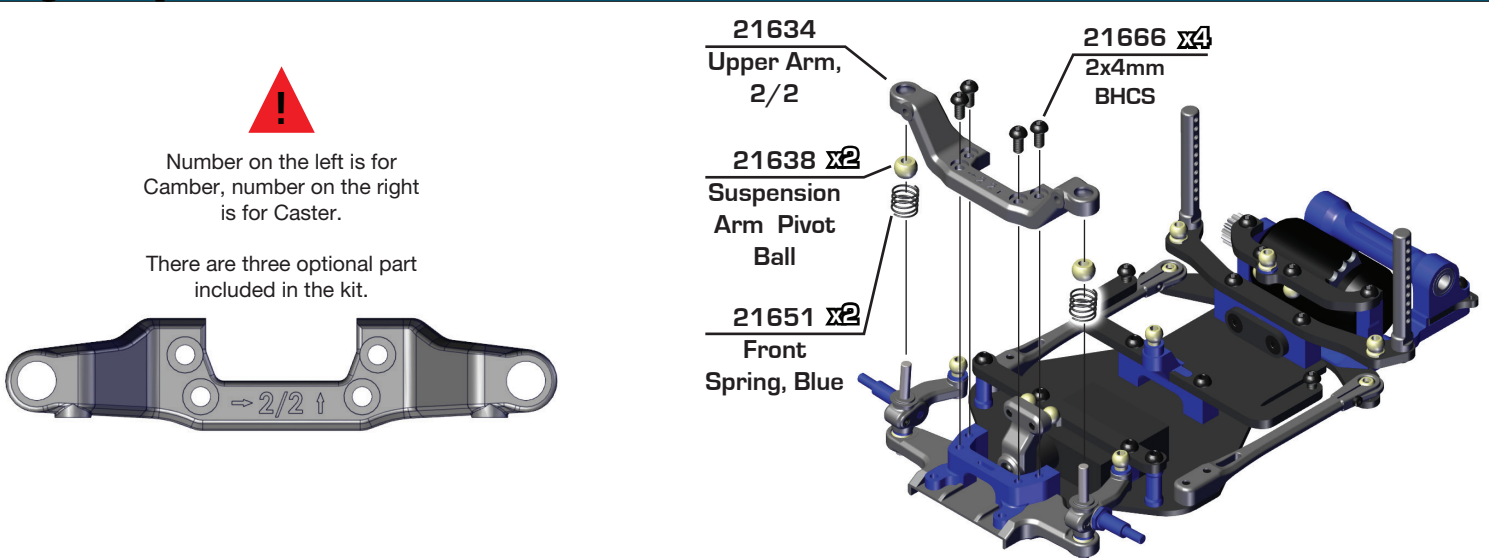
### Bag 4 - Step 1



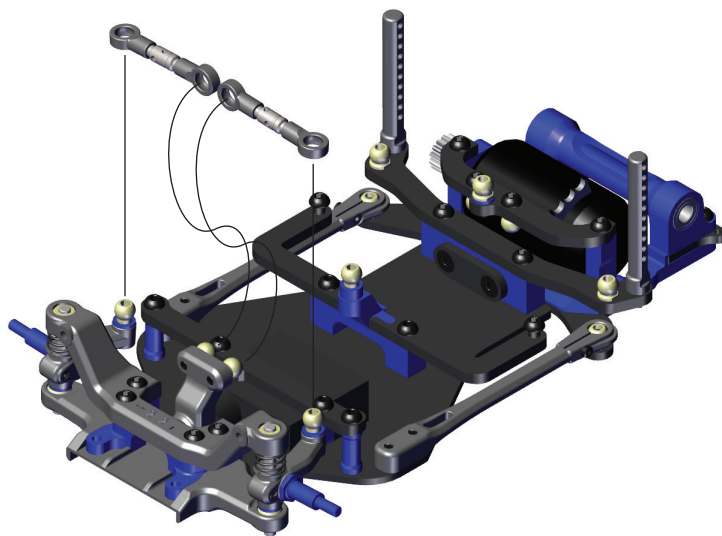
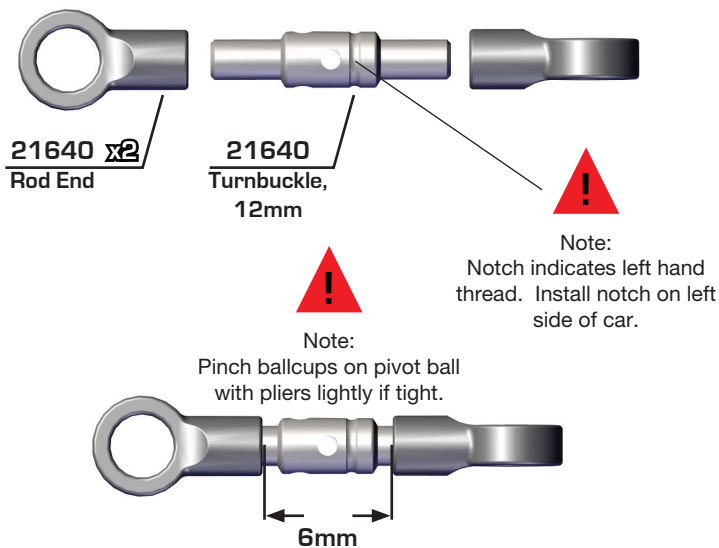
### Bag 4 - Step 2



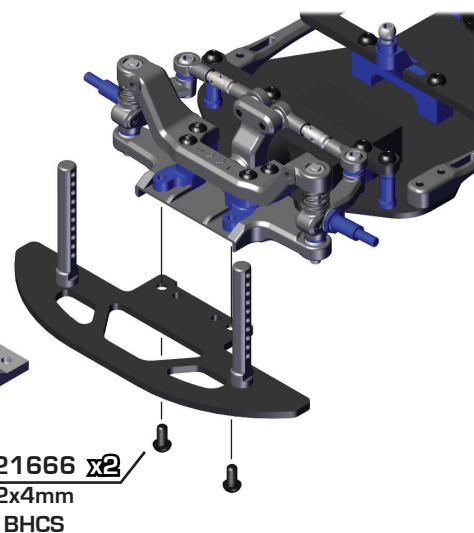
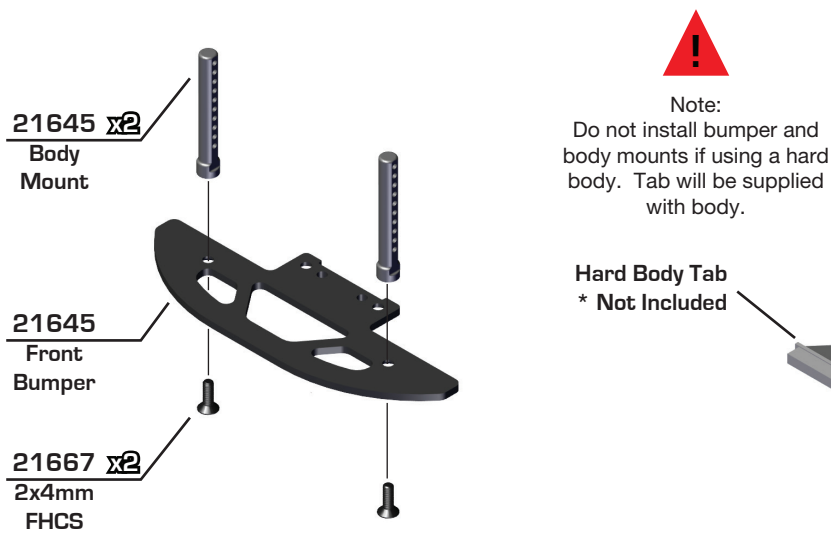
### Bag 4 - Step 3



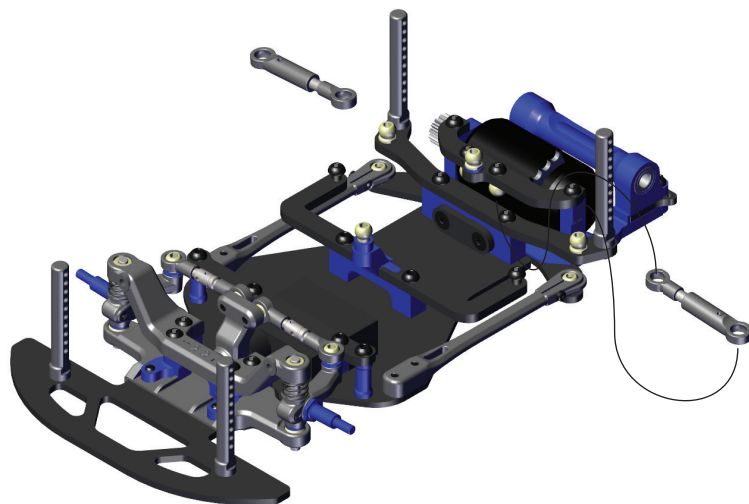
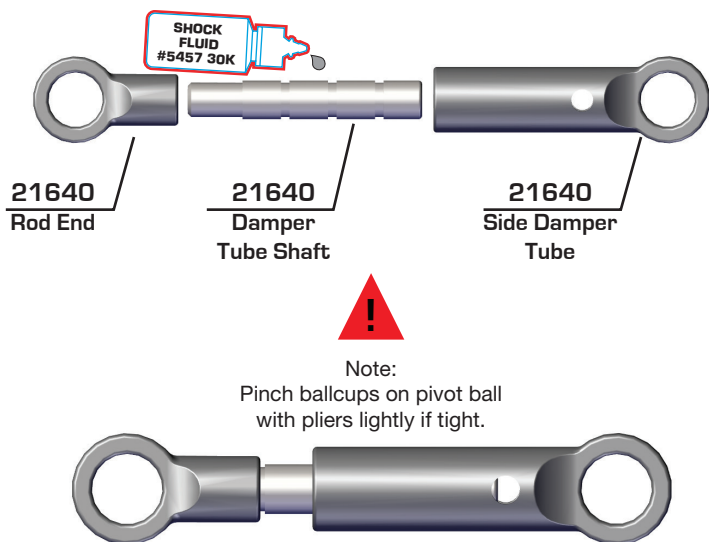
### :: Bag 4 - Step 4



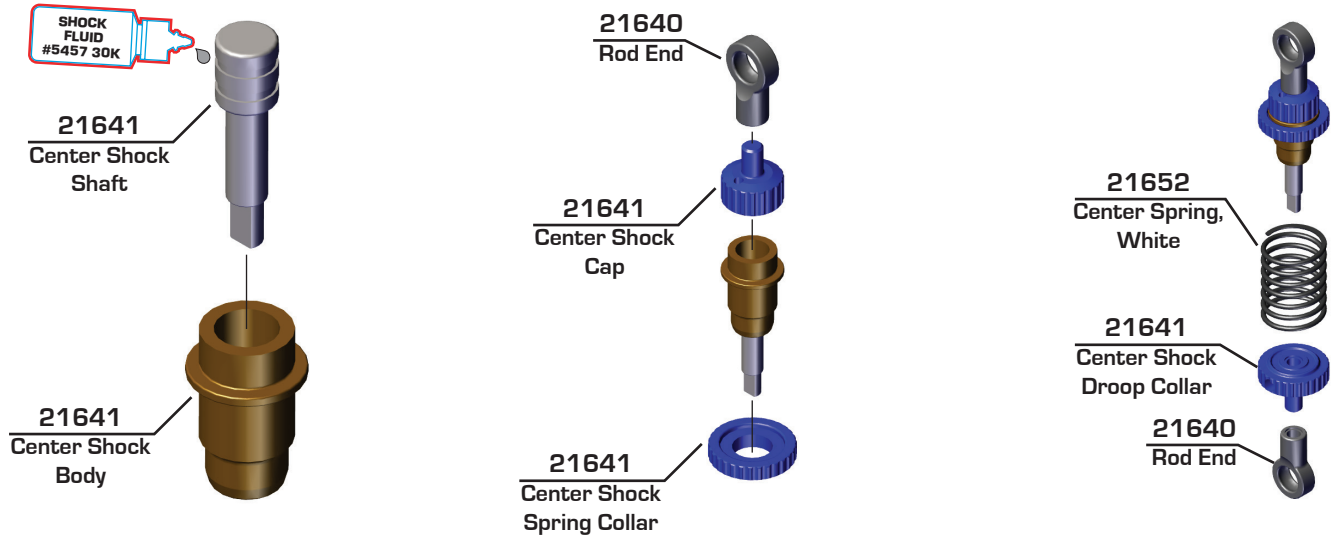
### :: Bag 4 - Step 5



### :: Bag 5 - Step 1



## :: Bag 5 - Step 2

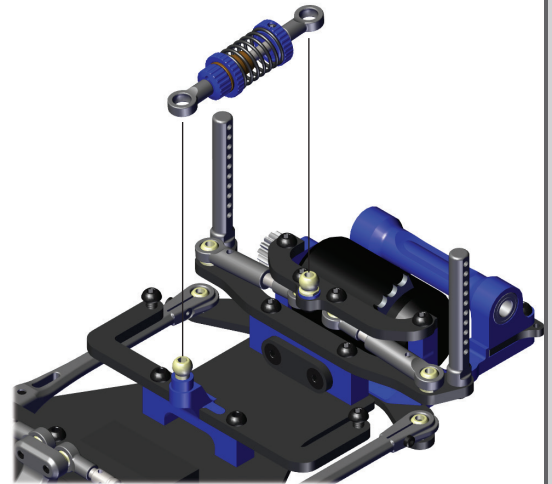


## :: Bag 5 - Step 3

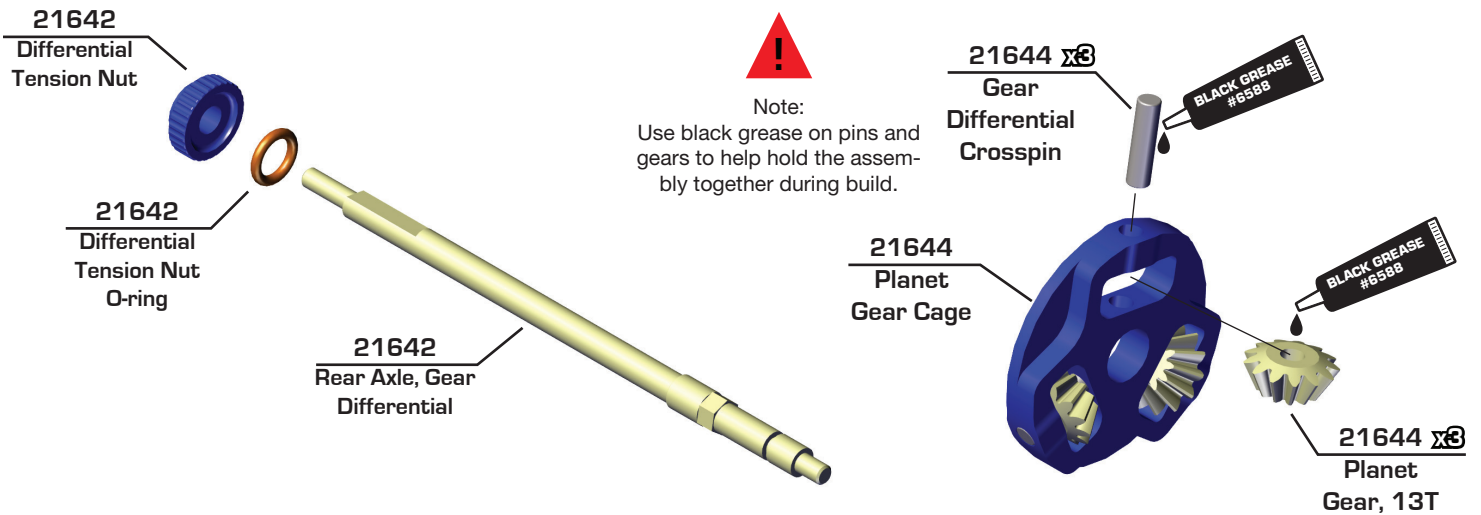
**!**

Note:  
Compress shock shaft and spring to insert into droop collar and tighten screw on flat of shaft.

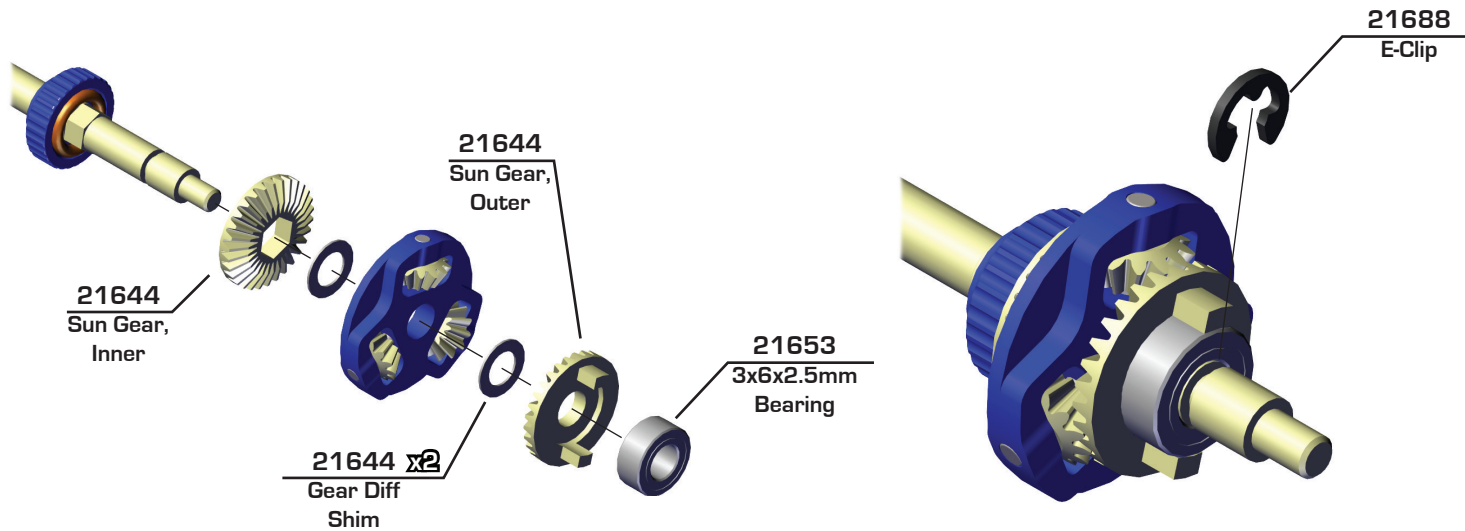
**21668**  
2x3mm  
Set Screw



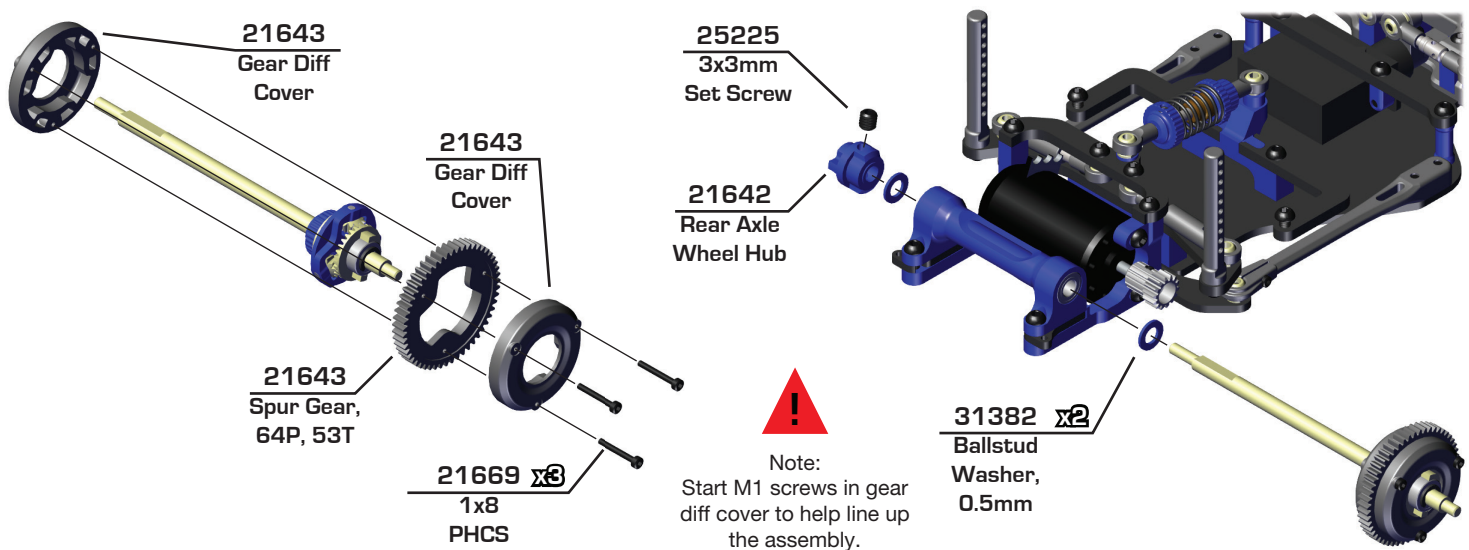
## :: Bag 6 - Step 1



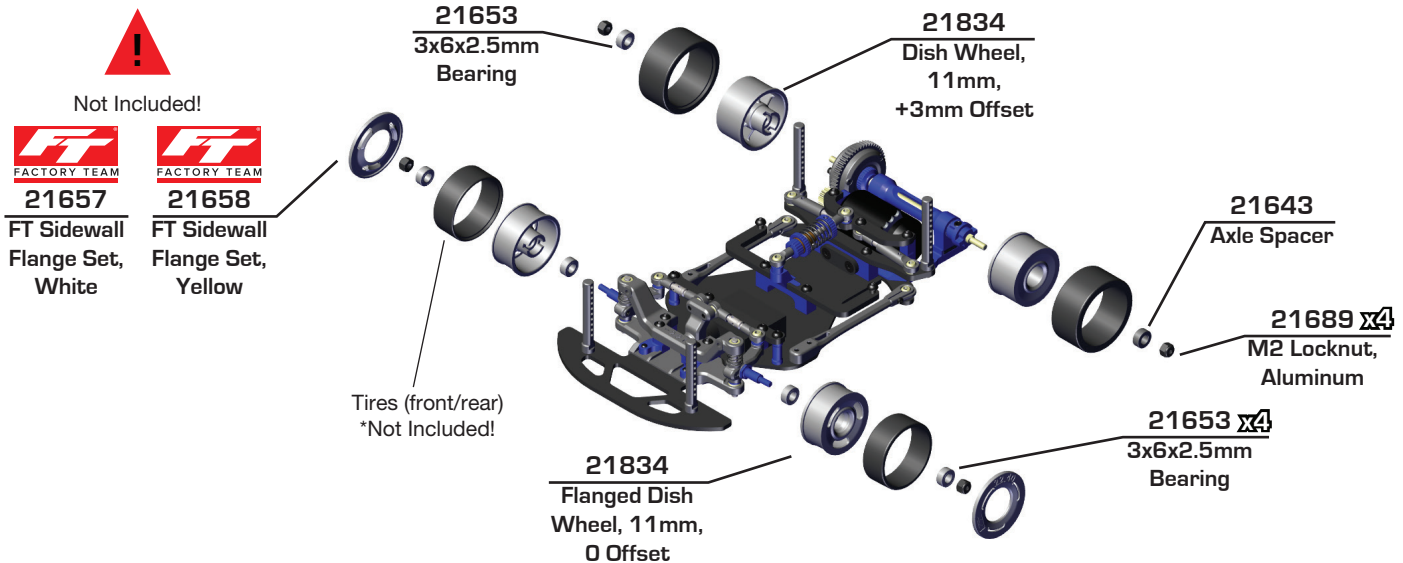
### Bag 6 - Step 2



### Bag 6 - Step 3

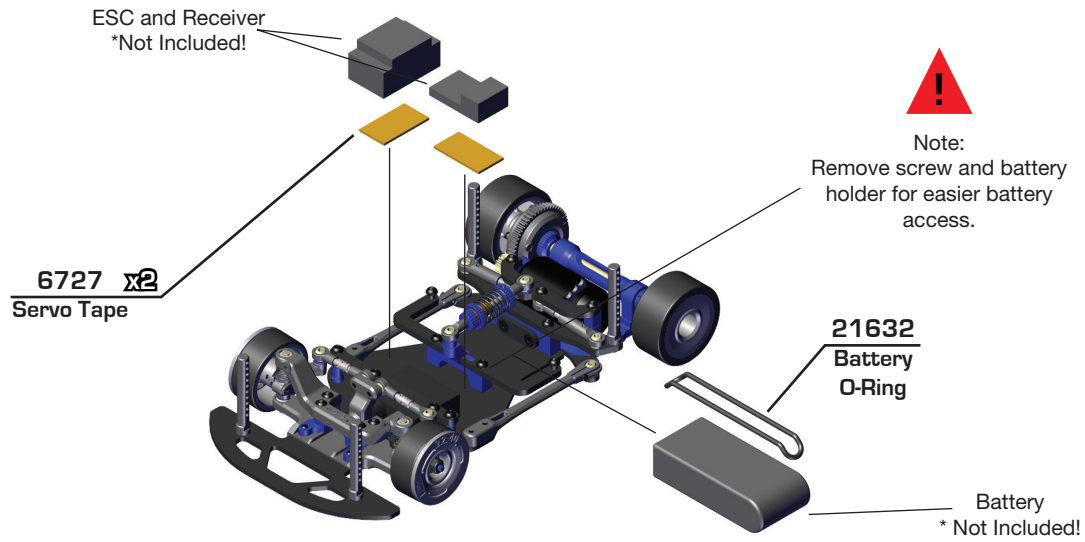


### Bag 7 - Step 1

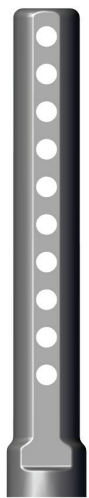




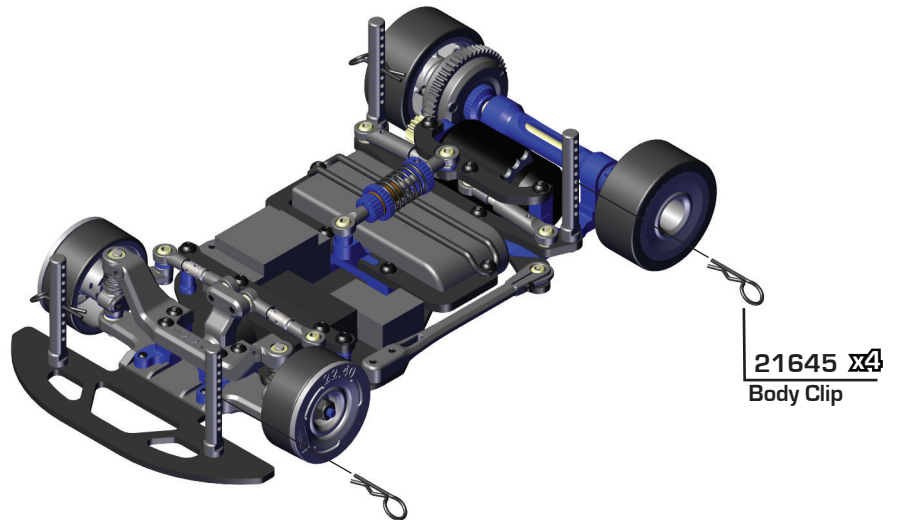
## :: Bag 7 - Step 2



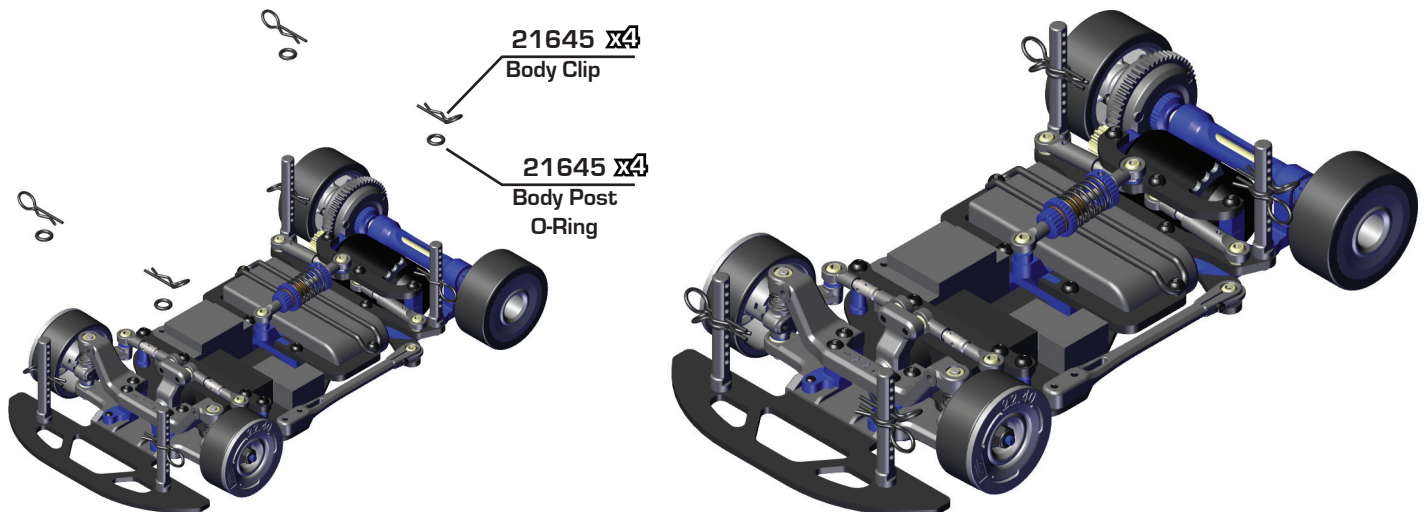
## :: Bag 7 - Step 3



Note:  
Adjust the body height  
depending on body used.



## :: Bag 7 - Step 4



## Track Info:

Size: Small ☐ Medium ☒  
Large ☐ Extra Large ☐

Surface: RCP (Smooth) ☒ RCP (Rough) ☐

Traction: Low ☐ Medium ☒ High ☐

Condition: Bumpy ☐ Smooth ☒  
Dirty ☐ Clean ☒

Temperature: Ambient: \_\_\_\_\_ Track: \_\_\_\_\_

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Vehicle Info:

Body: \_\_\_\_\_

Wing: \_\_\_\_\_

Body Notes: \_\_\_\_\_

Wheelbase: 98mm

Weight: \_\_\_\_\_

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Electronics Info:

Radio: \_\_\_\_\_ Servo: \_\_\_\_\_

EPA: Throttle: \_\_\_\_\_ % Brake: \_\_\_\_\_ %

ESC: \_\_\_\_\_

ESC Settings: \_\_\_\_\_

Motor: \_\_\_\_\_

Pinion: \_\_\_\_\_ Spur: 53T

Battery: \_\_\_\_\_

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Wheels and Tires Info:

Front Tires: \_\_\_\_\_

Front Wheels: \_\_\_\_\_ Offset: 0

Front Adhesive: CA Glue ☐ Tape ☐

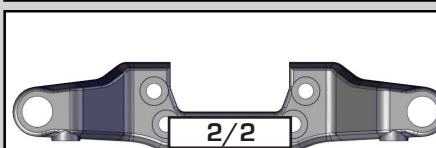
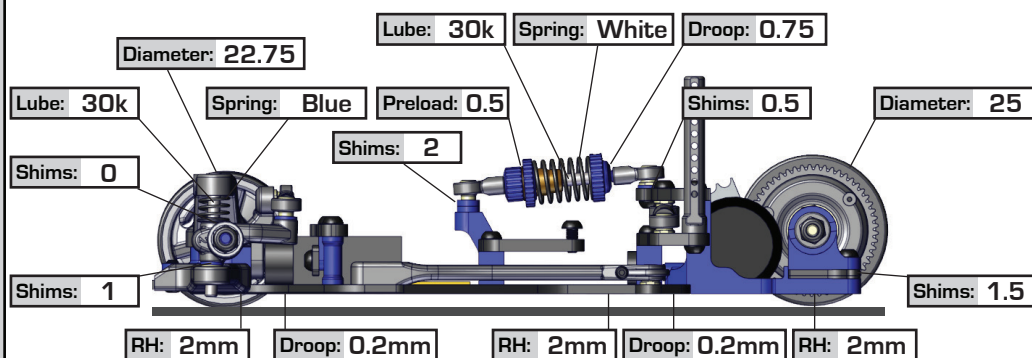
Front Wheel Flange Diameter: \_\_\_\_\_ None ☐

Rear Tires: \_\_\_\_\_

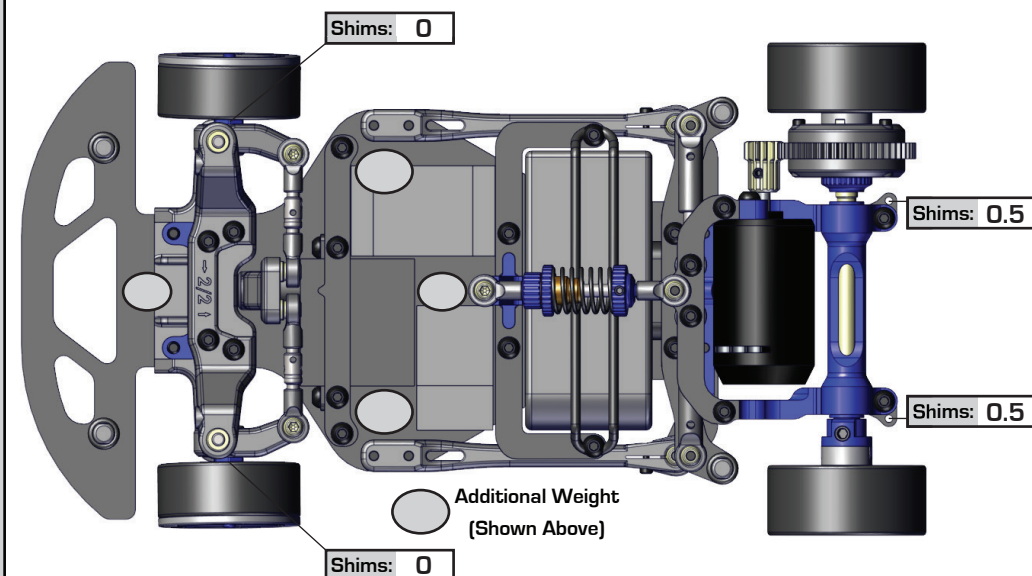
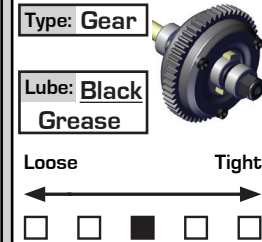
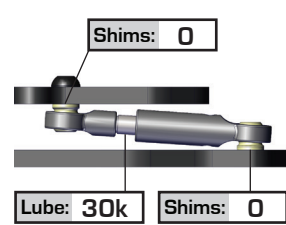
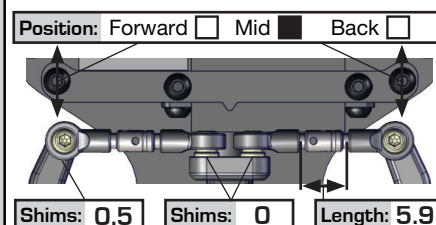
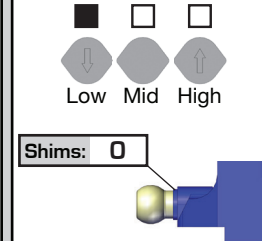
Rear Wheels: \_\_\_\_\_ Offset: +3

Rear Adhesive: CA Glue ☐ Tape ☐

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



FT Brace: Yes ☐ No ☒



## Track Info:

Size: Small ☐ Medium ☐  
 Large ☐ Extra Large ☐

Surface: RCP (Smooth) ☐ RCP (Rough) ☐

Traction: Low ☐ Medium ☐ High ☐

Condition: Bumpy ☐ Smooth ☐  
 Dirty ☐ Clean ☐

Temperature: Ambient: \_\_\_\_\_ Track: \_\_\_\_\_

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Vehicle Info:

Body: \_\_\_\_\_

Wing: \_\_\_\_\_

Body Notes: \_\_\_\_\_

Wheelbase: \_\_\_\_\_

Weight: \_\_\_\_\_

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Electronics Info:

Radio: \_\_\_\_\_ Servo: \_\_\_\_\_

EPA: Throttle: \_\_\_\_\_ % Brake: \_\_\_\_\_ %

ESC: \_\_\_\_\_

ESC Settings: \_\_\_\_\_

Motor: \_\_\_\_\_

Pinion: \_\_\_\_\_ Spur: \_\_\_\_\_

Battery: \_\_\_\_\_

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Wheels and Tires Info:

Front Tires: \_\_\_\_\_

Front Wheels: \_\_\_\_\_ Offset: \_\_\_\_\_

Front Adhesive: CA Glue ☐ Tape ☐

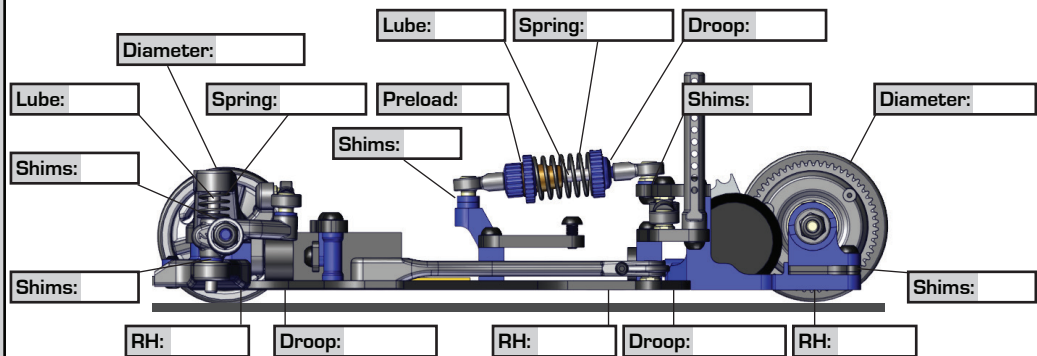
Front Wheel Flange Diameter: \_\_\_\_\_ None ☐

Rear Tires: \_\_\_\_\_

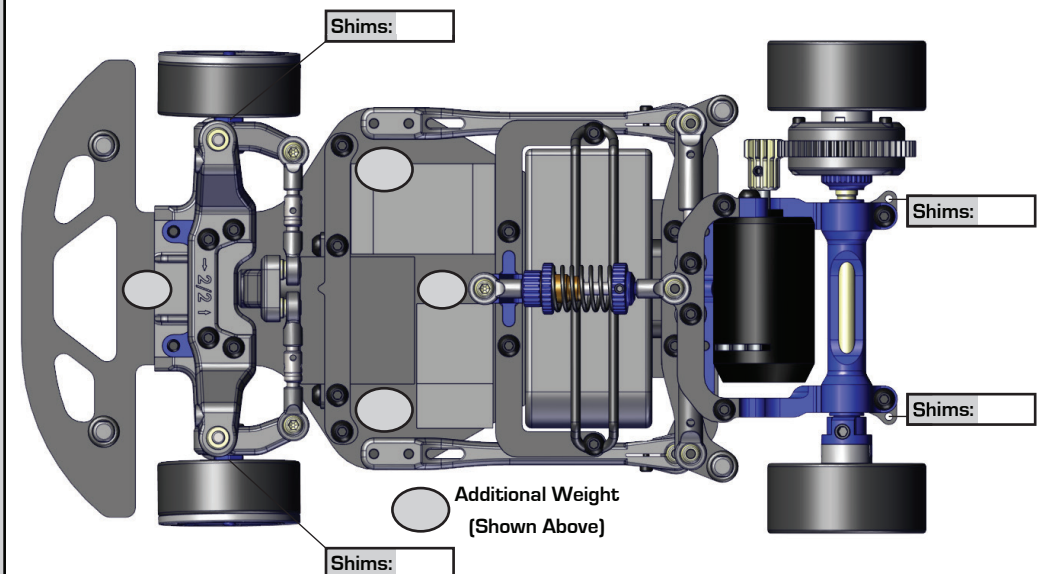
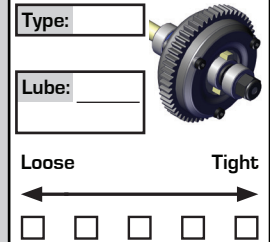
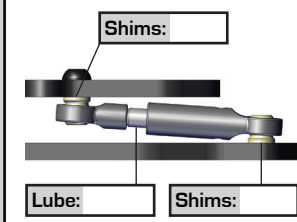
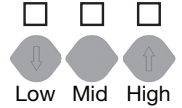
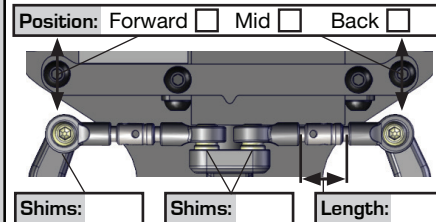
Rear Wheels: \_\_\_\_\_ Offset: \_\_\_\_\_

Rear Adhesive: CA Glue ☐ Tape ☐

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



FT Brace: Yes ☐ No ☐



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***Associated Electrics, Inc.***

***21062 Bake Parkway Lake Forest, CA 92630 USA***

***call: (949) 544-7500 - fax: (949) 544-7501***

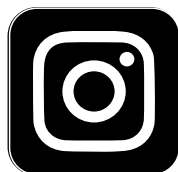
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new releases, setup help, tips, and racing info!***

***www.AssociatedElectrics.com***

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