

RC28 TEAM KIT

1:28 Scale 2WD Electric
On Road Competition Kit

INCLUDES:

- RADBODY Mako X Clear Body
- Rubber Tires



TEAM ASSOCIATED



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

#20168 RC28R with Body and Tires Team Kit

WeAreTEAM
CHAMPIONS *of* DESIGN
AssociatedRC.com

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 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 for suggestions):

- R/C two channel surface frequency radio system
- AA-size batteries for transmitter
- Electronic Speed Control ("ESC")
- Steering servo
- R/C electric motor

- Battery charger (a peak detection charger, or LiPo compatible charger)
- 2 cell LiPo battery pack
- Polycarbonate specific spray paint
- Cyanoacrylate glue ("CA") (#1697)
- Thread locking compound (#1596)
- Pinion gear, size determined by type/turn or kV of motor

:: Other Helpful Items

- Silicone Shock Fluid (Refer to AssociatedElectrics.com for complete listings)
- 4.5mm Nut Wrench
- FT Body Scissors (#1737)
- Calipers or a Precision Ruler
- .050", 0.9mm, 1.3mm, 1.5mm Hex Wrenches
- FT Body Reamer (#1499)
- 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)

Flat Head (fhcs)

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

Ball Bearing / Axle Spacer

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

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)

Phillips Head (phcs)

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

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
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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.



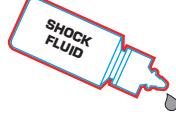
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.



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.

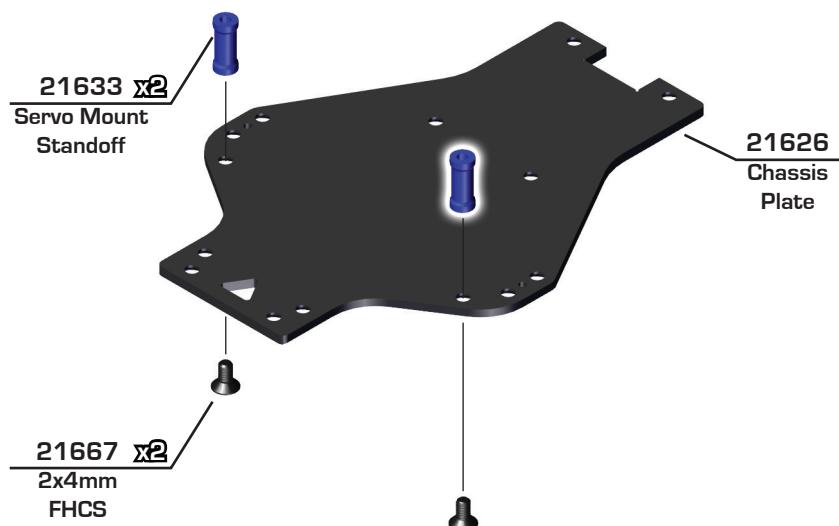


This symbol indicates where Green Slime can be applied. *not included

:: Bag 1 - Step 1



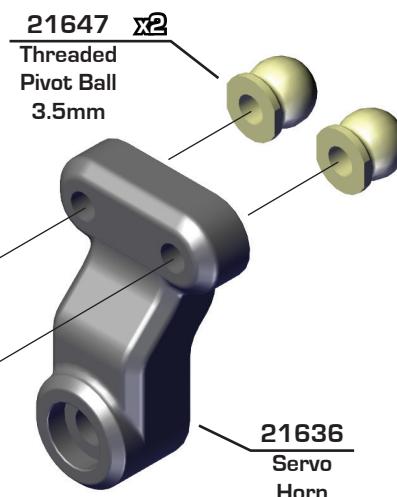
Hardware note:
Some M2 hardware may use
.050" hex instead of 1.3mm
hex depending on the
production batch.



:: 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.



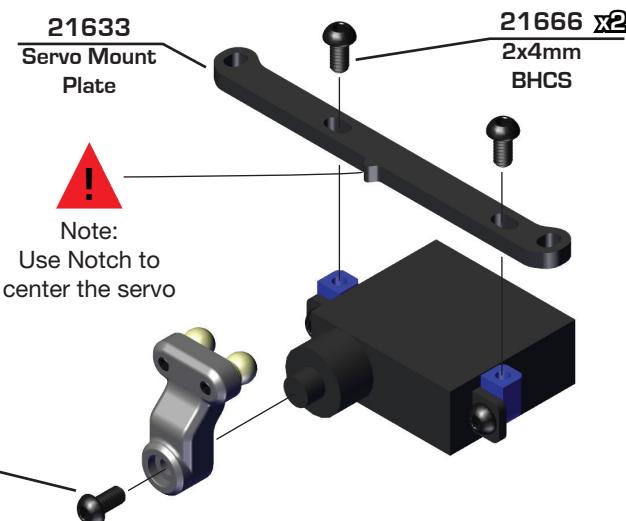
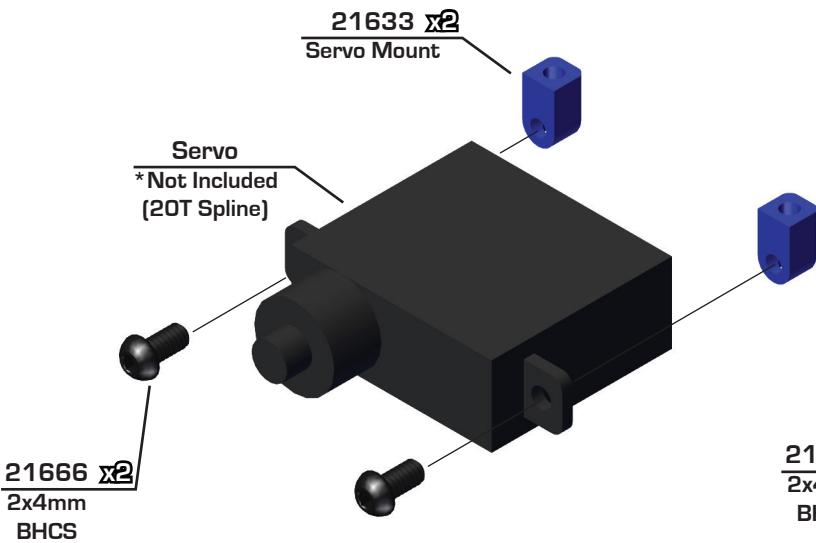
Note:
Install set screws flush
with servo horn!



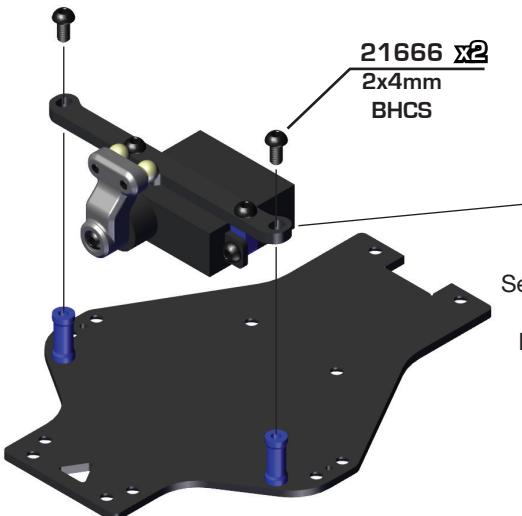
Note:
Servo horn designed for 20T
4mm diameter spline servo.



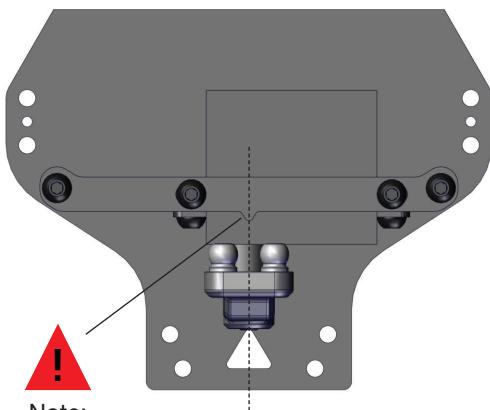
:: Bag 1 - Step 3



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



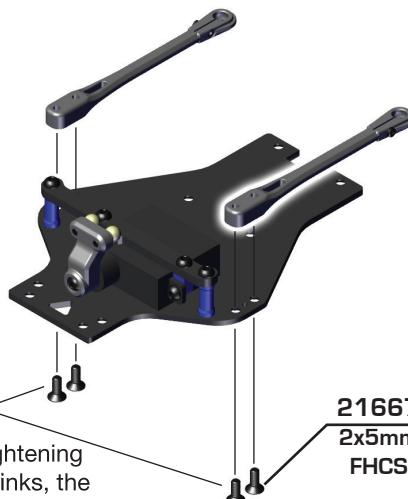
Note:
Torsion link shims included
for using higher center pivot
positions. 0.5mm for mid,
1mm for high.



21639
Torsion Link,
Medium

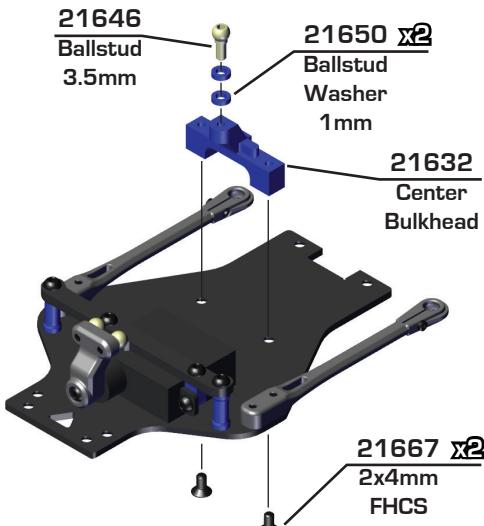
21669 x2
1x3mm
PHCS

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

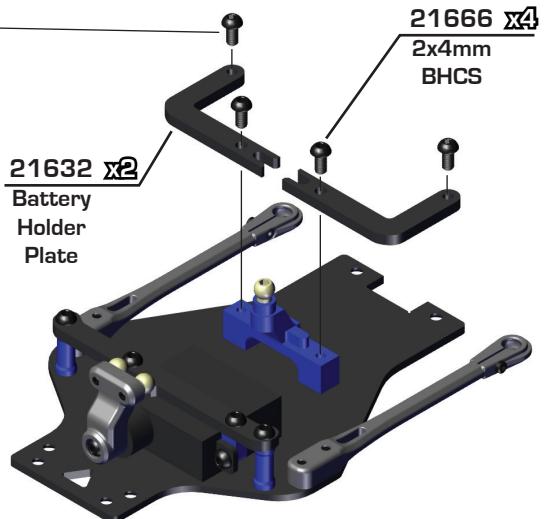


Note:
Take care when tightening screws for torsion links, the link needs to be parallel with the center line of the chassis.

Bag 1 - Step 6

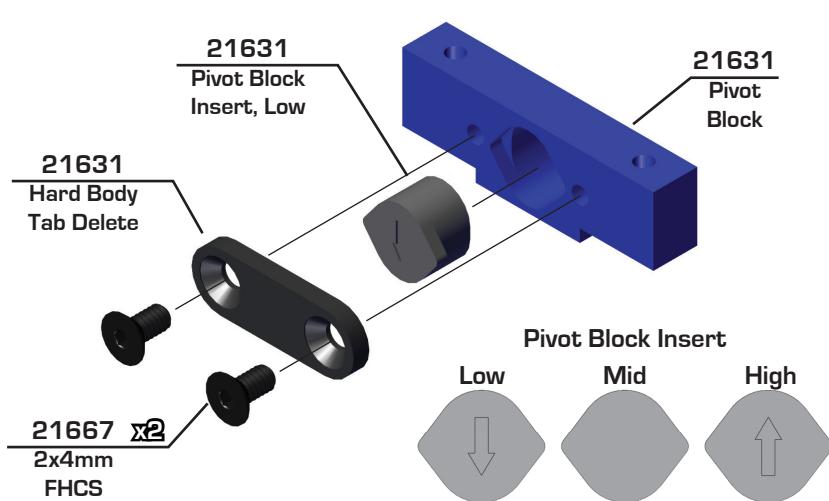


Note:
Screw in until flush with
bottom of the holder.
Take care to screw in
straight.



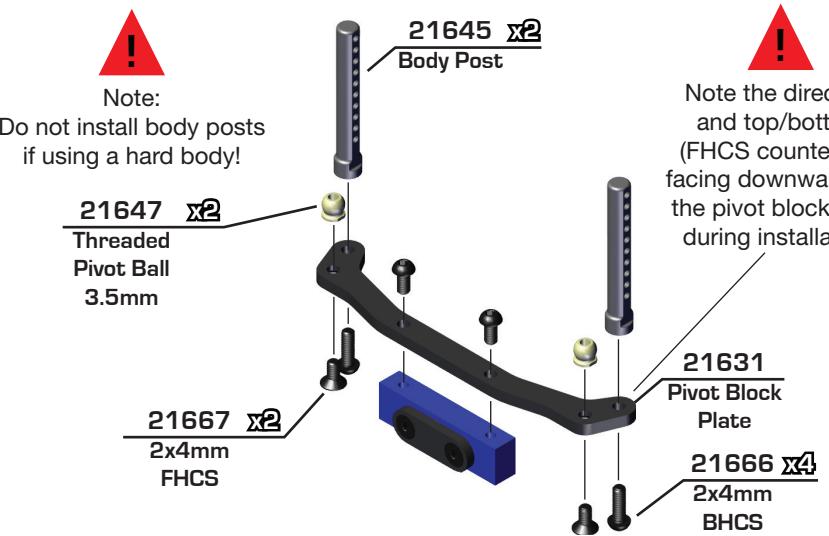
Note:
Set O-Ring aside for
battery installation.

Bag 2 - Step 1

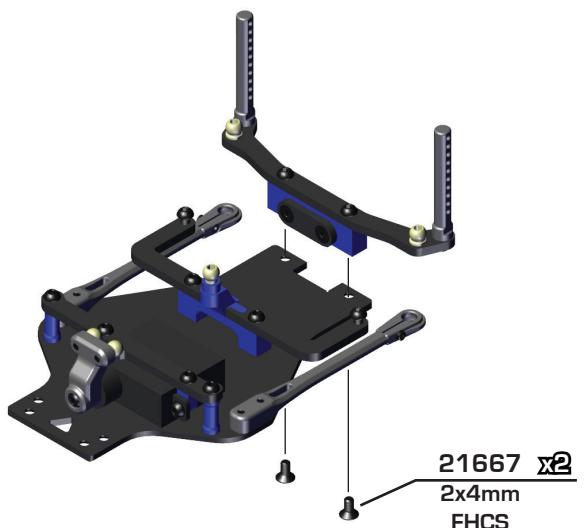


! Note:
Tabs included on most hard bodies will need to be mounted 1mm further forward.

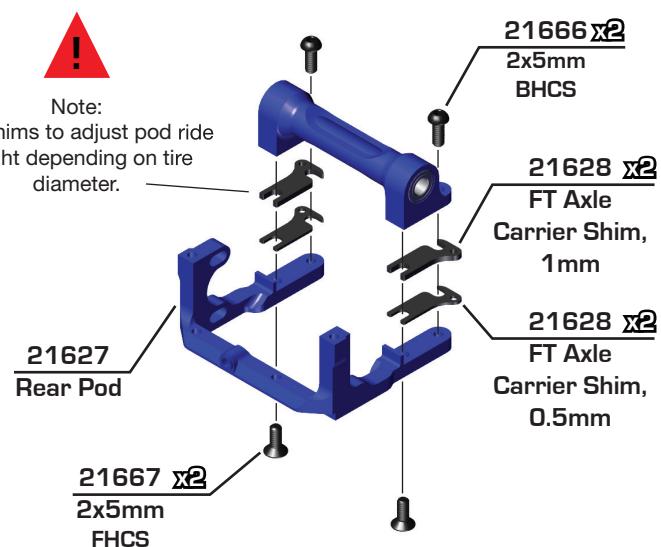
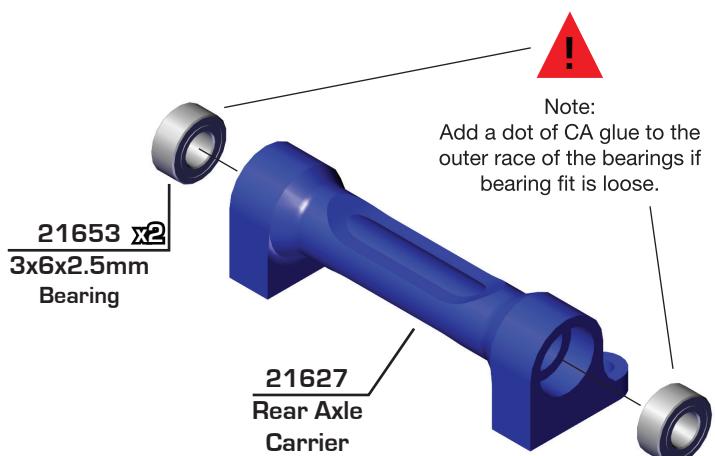
Bag 2 - Step 2



! Note the direction and top/bottom (FHCS countersink facing downwards) of the pivot block plate during installation!

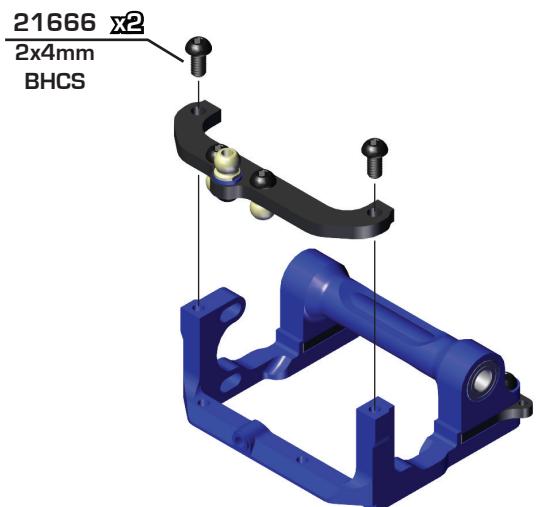
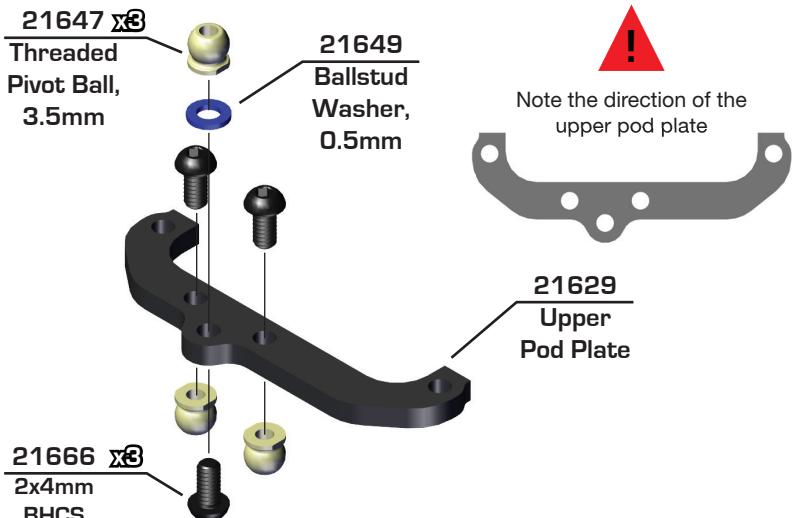


Bag 3 - Step 1

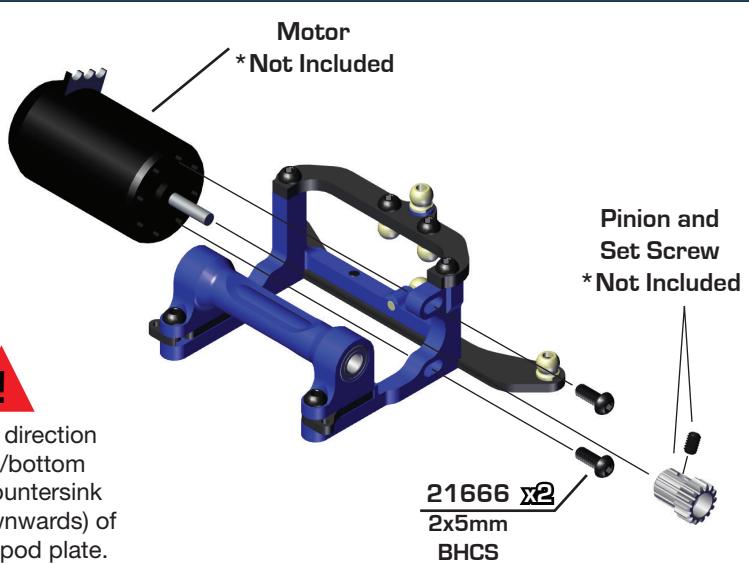
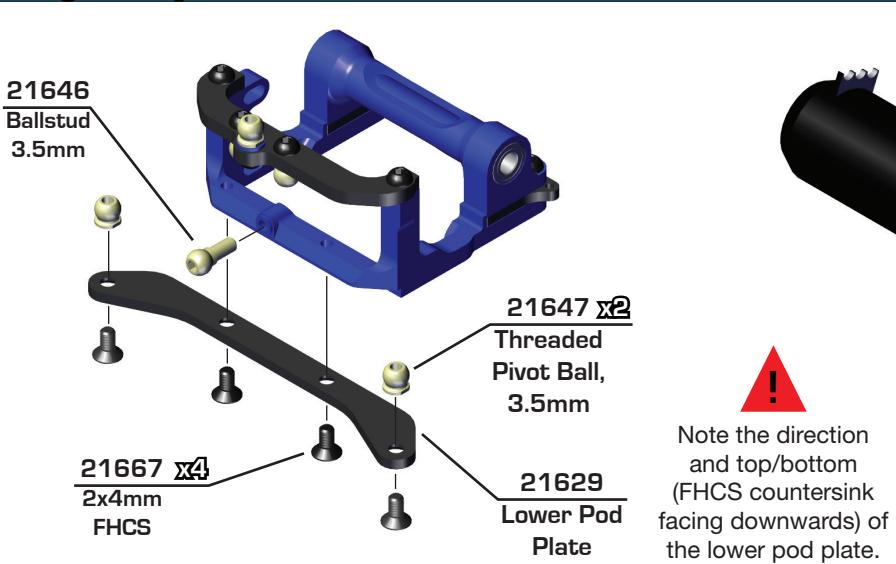


! Note:
Use shims to adjust pod ride height depending on tire diameter.

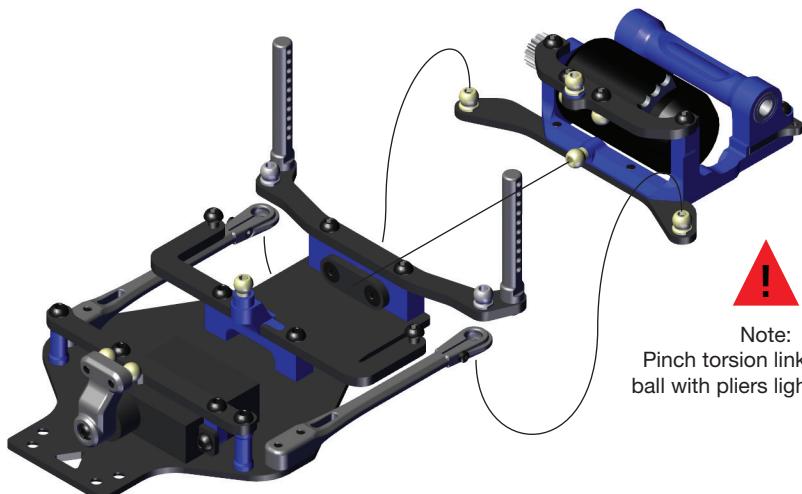
:: Bag 3 - Step 2



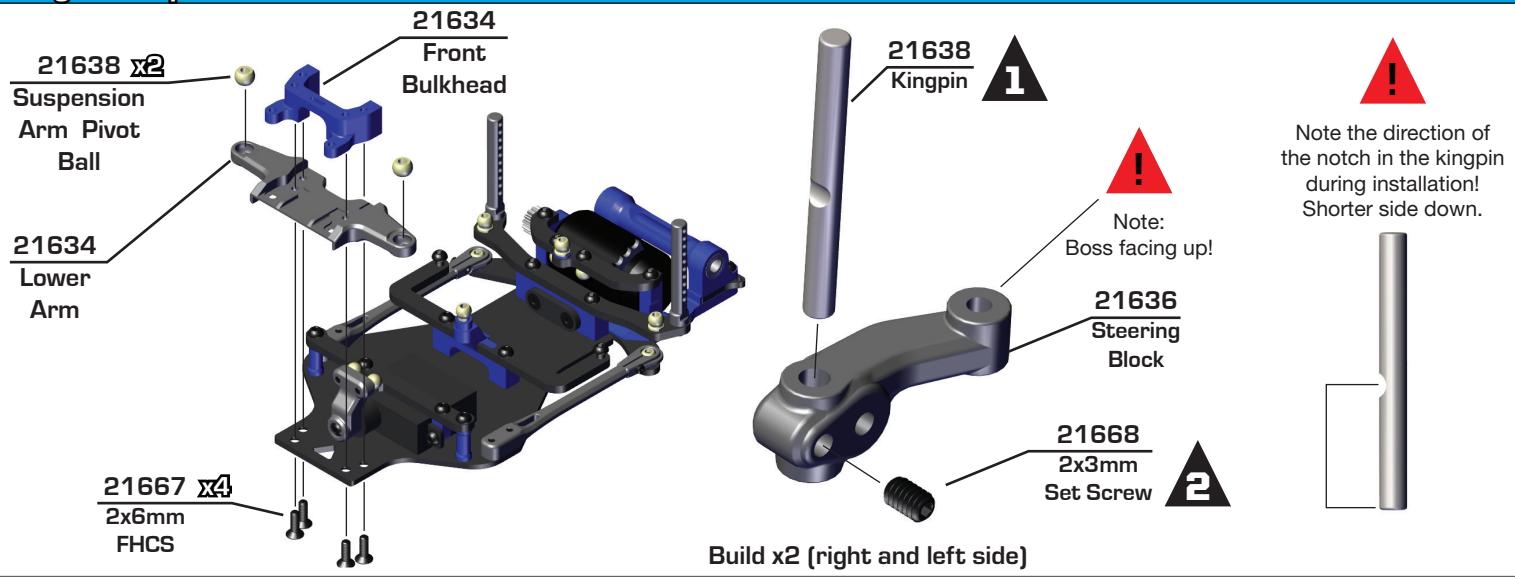
:: Bag 3 - Step 3



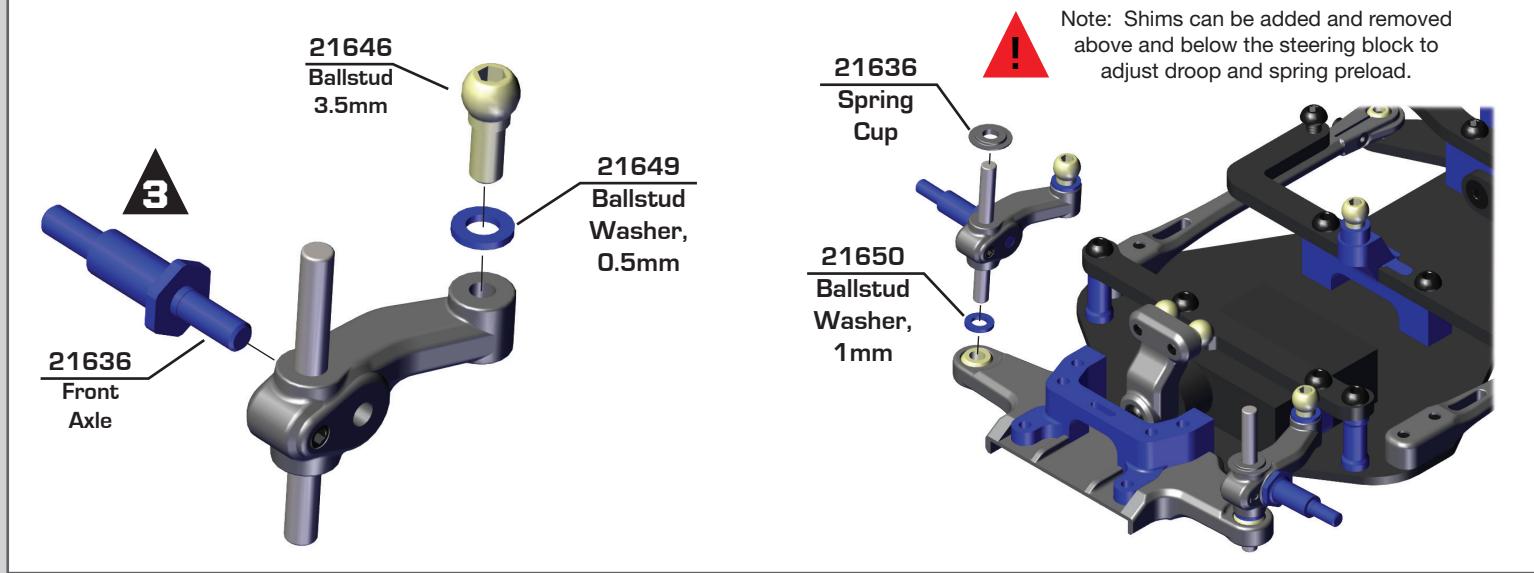
:: Bag 3 - Step 4



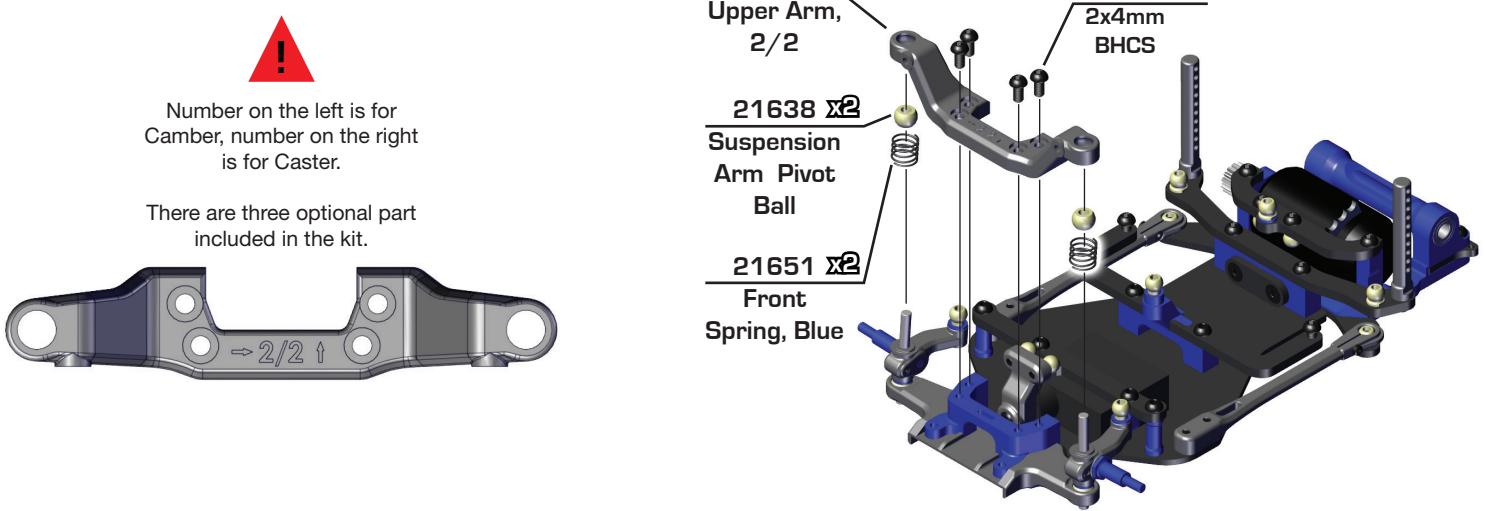
:: Bag 4 - Step 1



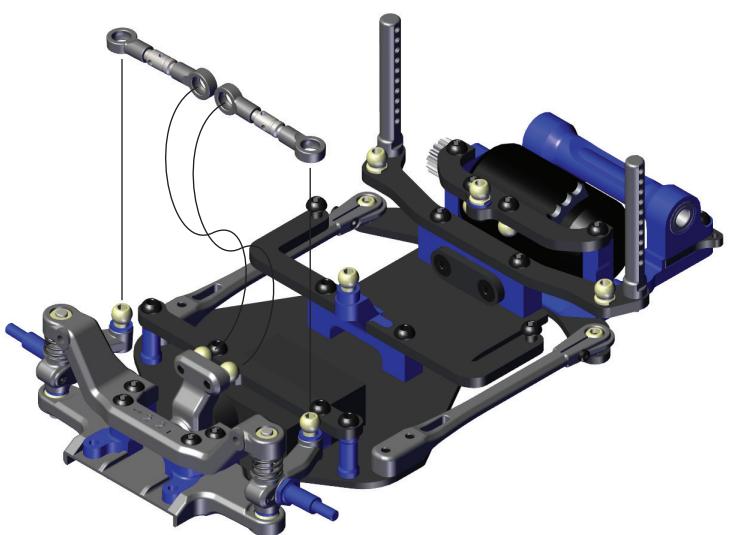
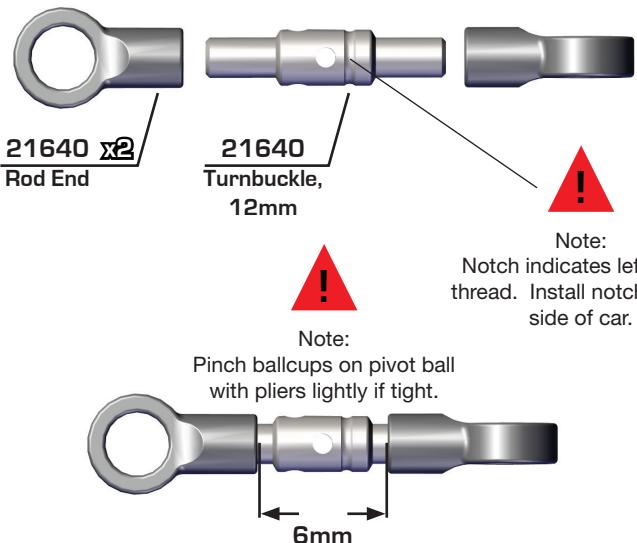
:: Bag 4 - Step 2



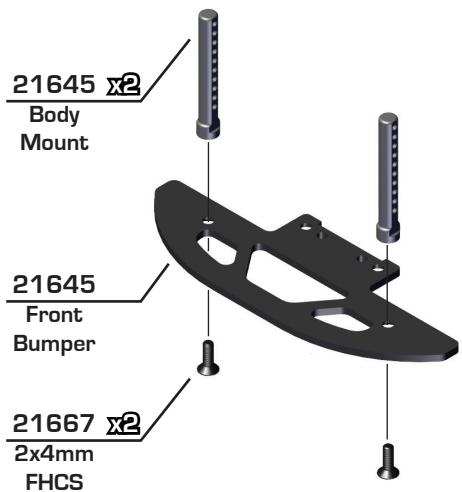
:: Bag 4 - Step 3



:: Bag 4 - Step 4

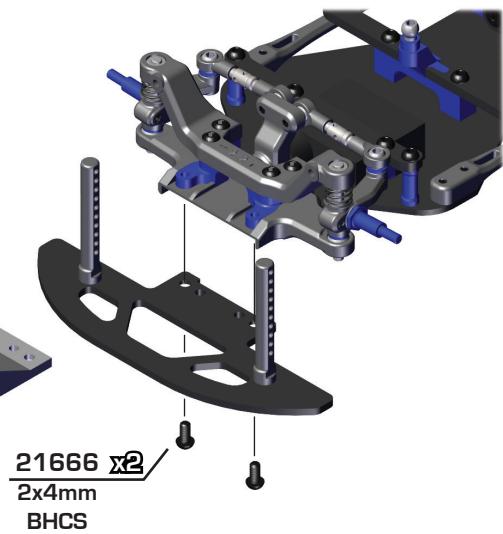


:: Bag 4 - Step 5

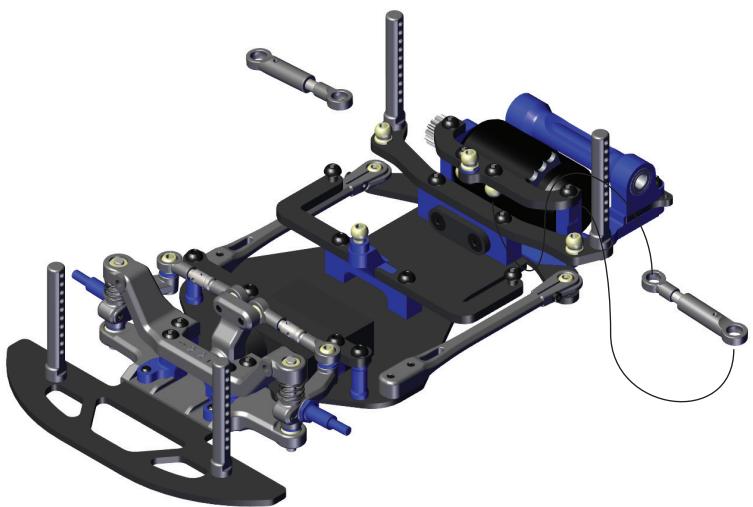
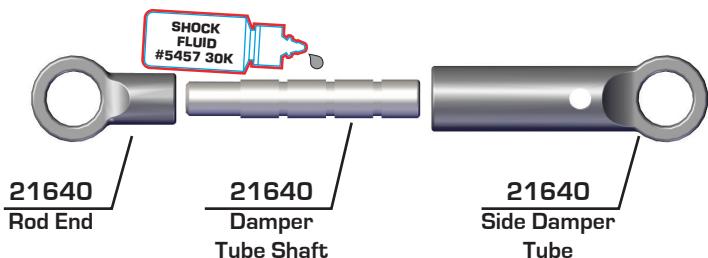


! Note:
Do not install bumper and
body mounts if using a hard
body. Tab will be supplied
with body.

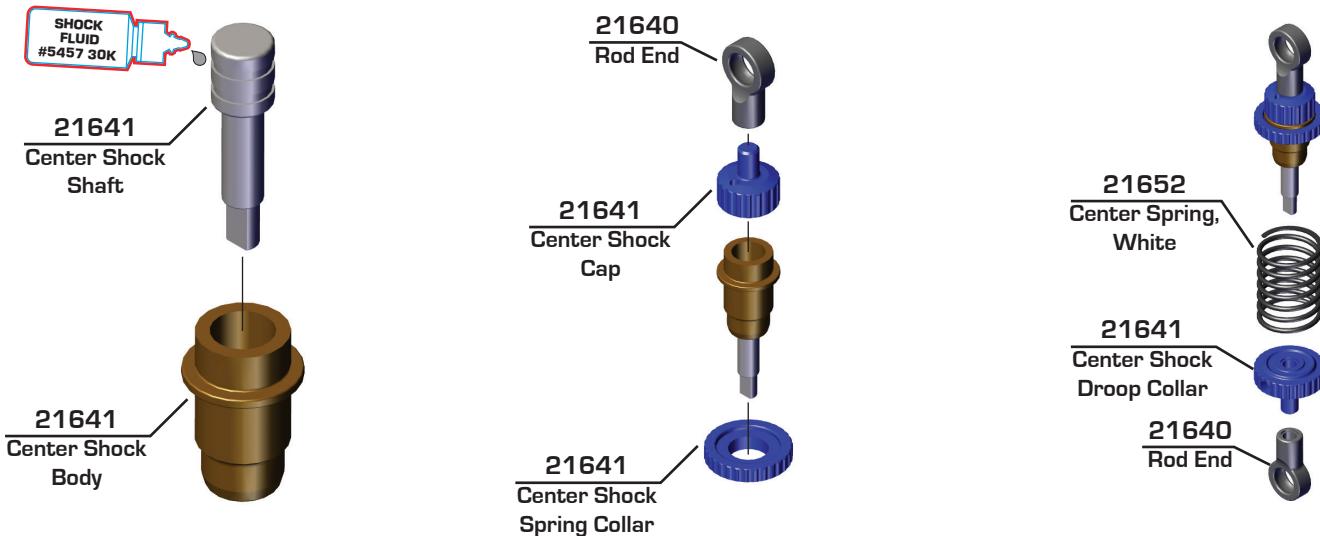
Hard Body Tab
* Not Included



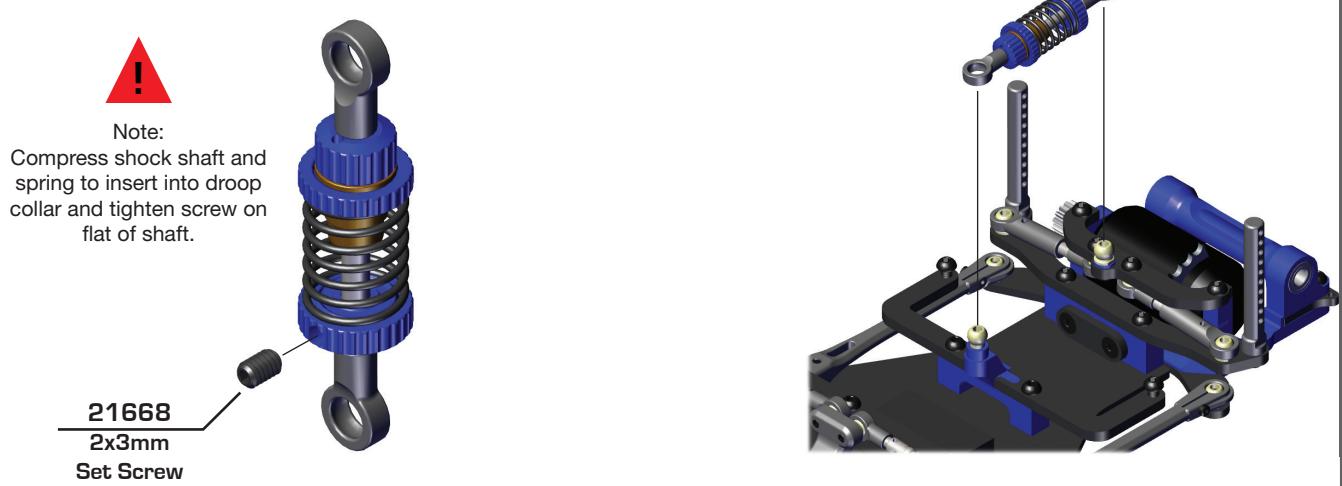
:: Bag 5 - Step 1



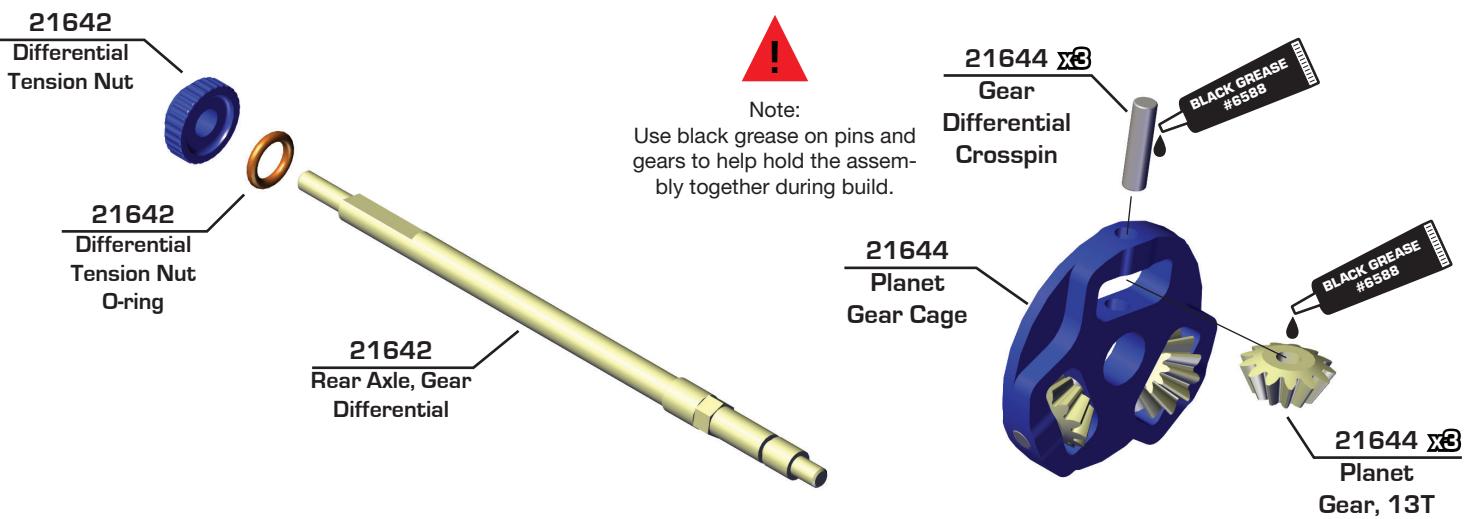
:: Bag 5 - Step 2



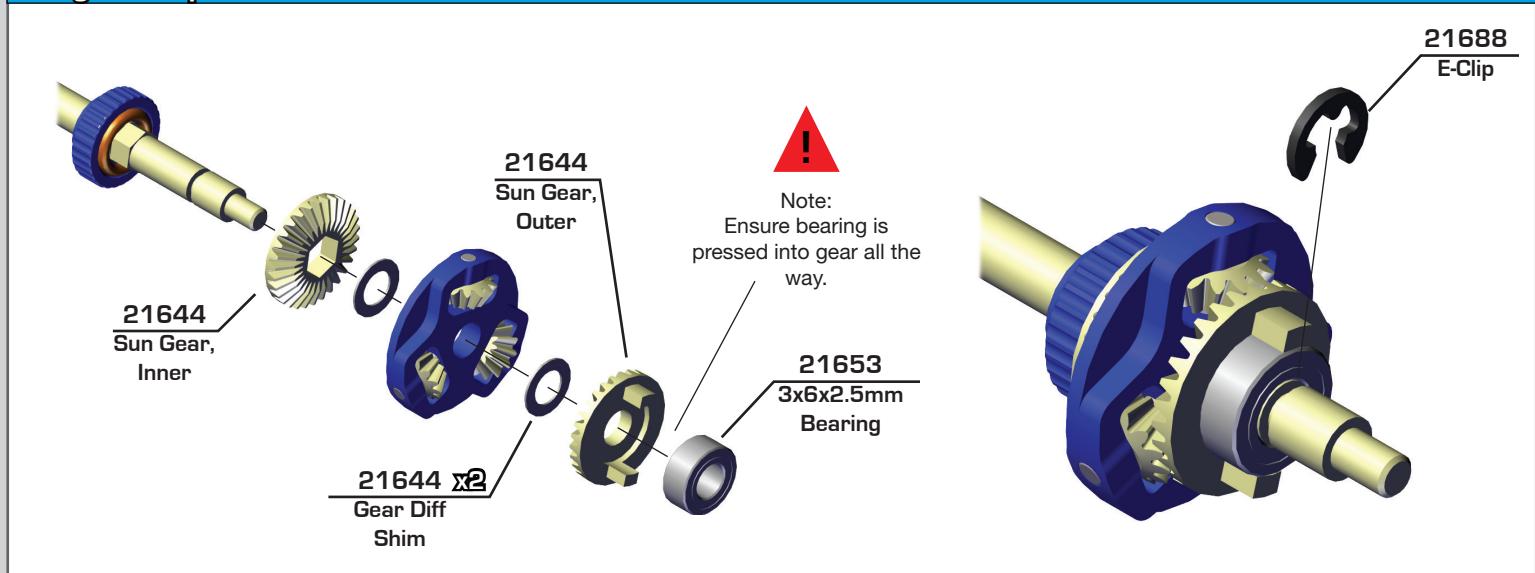
:: Bag 5 - Step 3



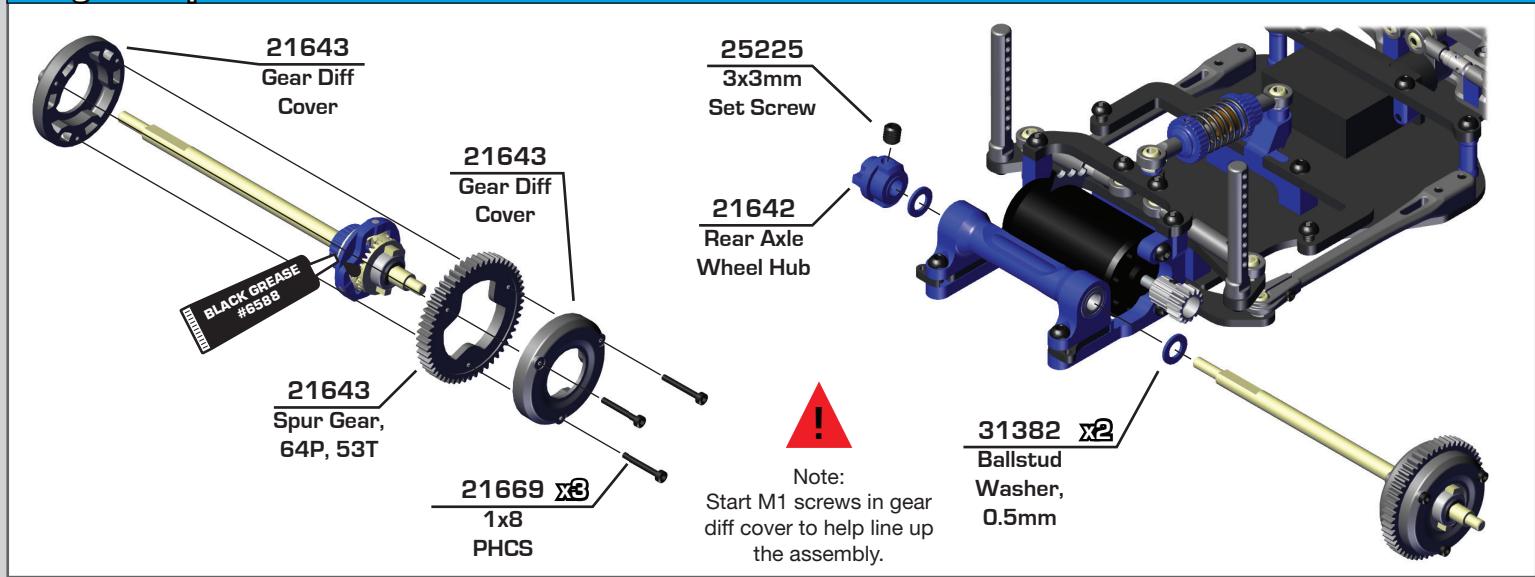
:: Bag 6 - Step 1



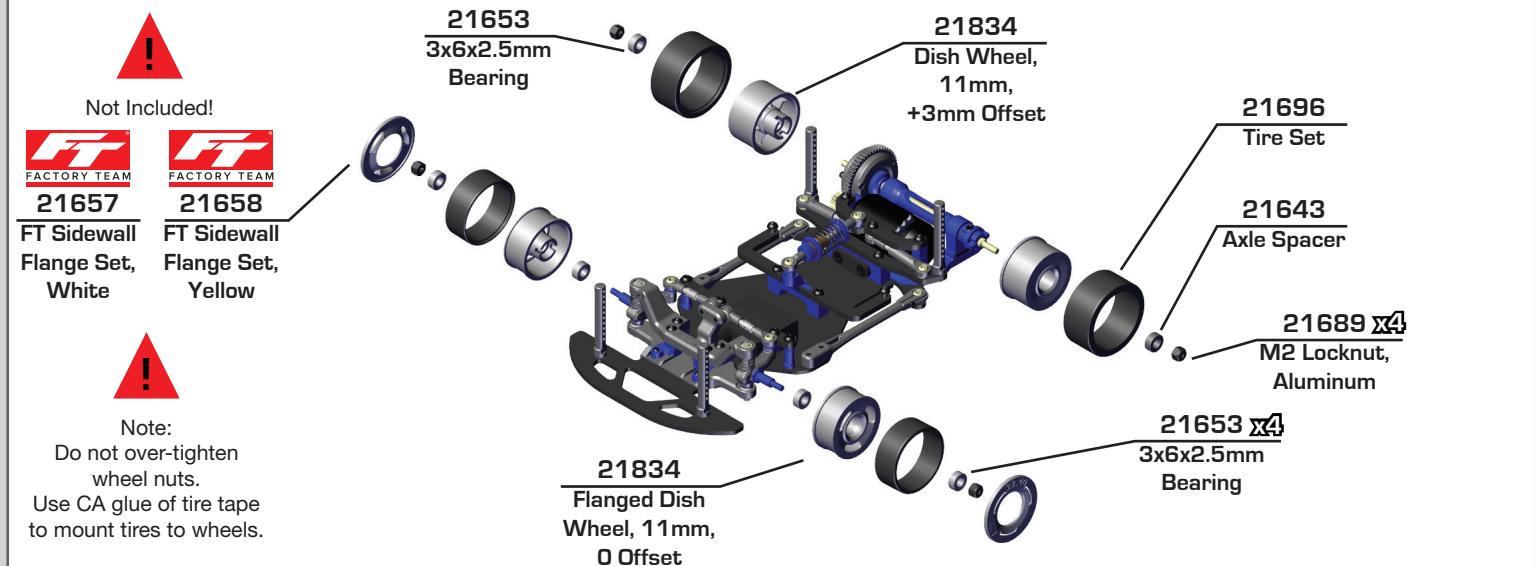
:: Bag 6 - Step 2



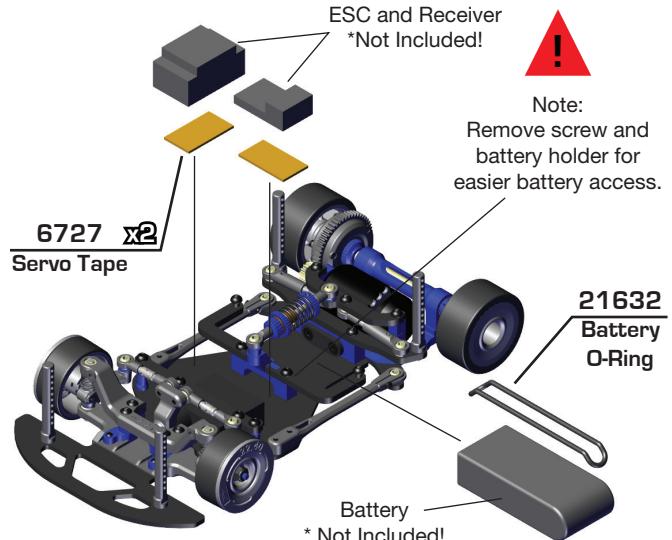
:: Bag 6 - Step 3



:: Bag 7 - Step 1



Bag 7 - Step 2



Body Mounting:
1. Use the existing front hole dimples.



2. Mark rear body post holes – 2.5mm further forward (from center) than existing rearward most dimples.



Bag 7 - Step 3

3. Cut off excess polycarbonate along bottom edge of body. Check that your marks line up with body posts before reaming holes.

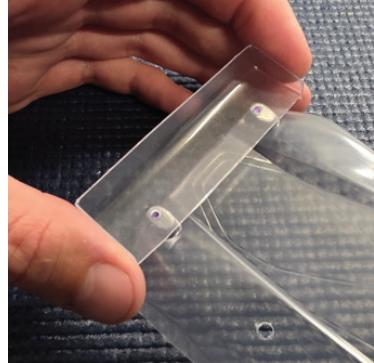
Paint mask and body decals included. Trim wheel wells to clear wheel and tires as needed.



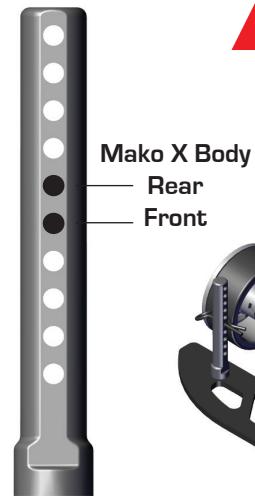
Wing Mounting:
1. Cut out the wing along the outer lines. Trim wing down as desired for tuning.
2. Mount the wing by reaming existing dimples (front set of dimples suggested).



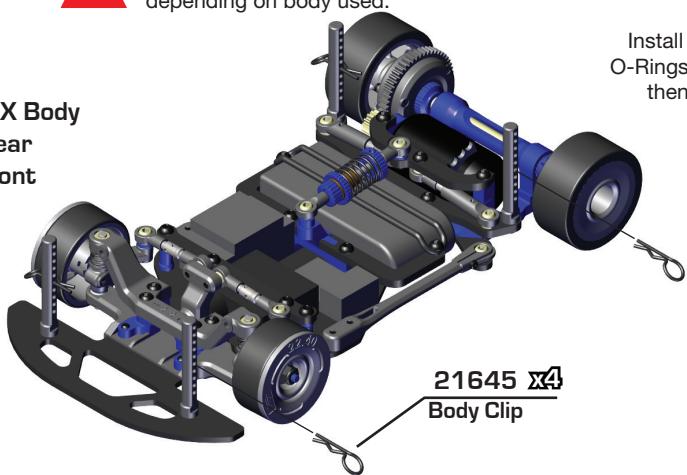
3. Use reamed holes on the wing as a guide for reaming mounting holes on the body. Take care to center the wing side to side and keep it square.
4. Use included mounting hardware.
*Note that both the wing and body have overspray masking which should be removed before final assembly and adding decals.



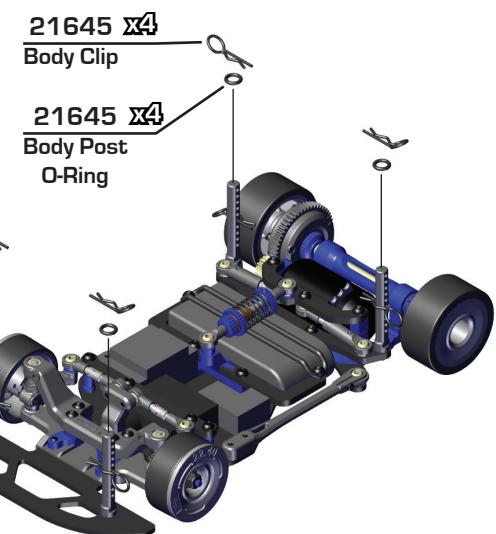
Bag 7 - Step 4



Note:
Adjust the body height depending on body used.

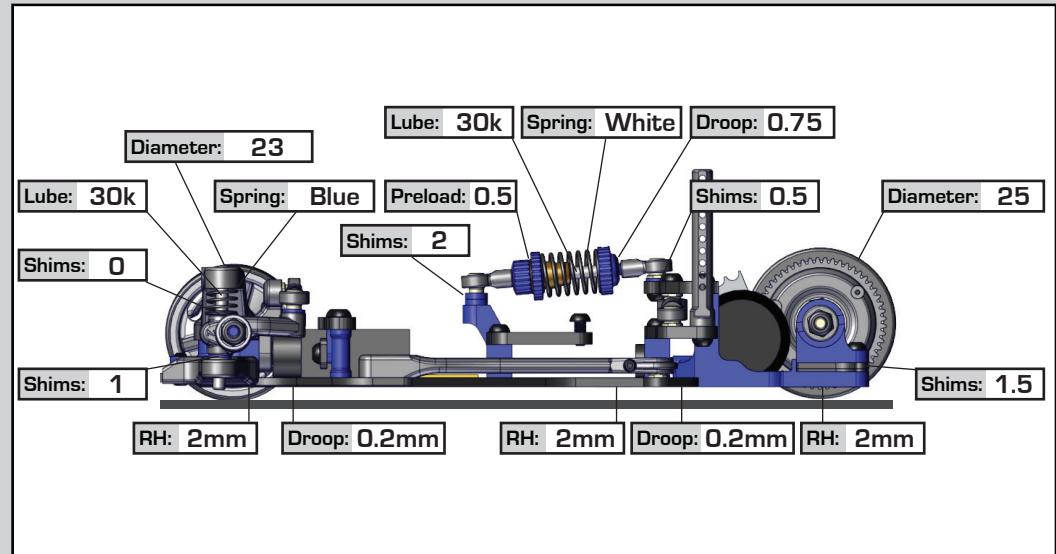


Install body with the O-Rings 1st, then body, then body clips.



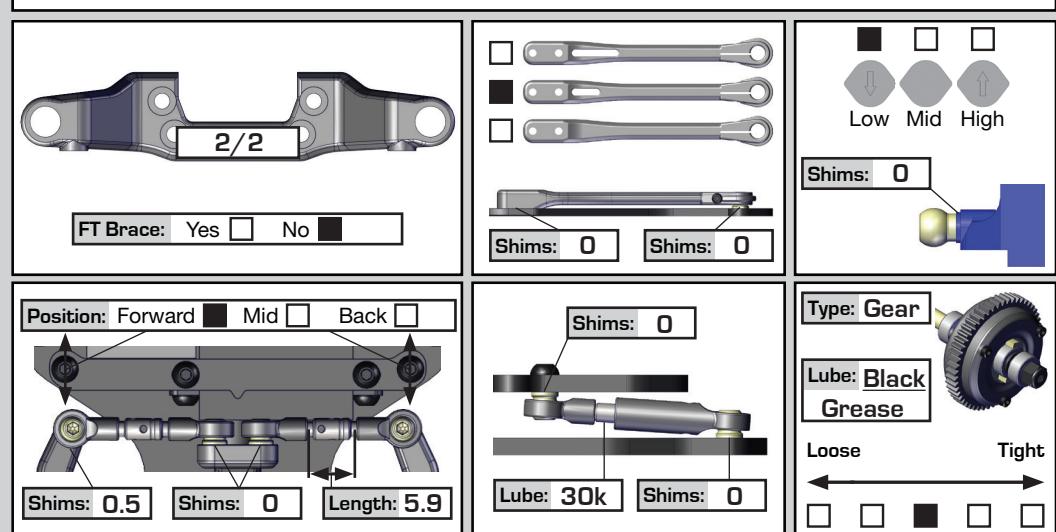
Track Info:

Size:	Small <input type="checkbox"/>	Medium <input checked="" type="checkbox"/>	
	Large <input type="checkbox"/>	Extra Large <input type="checkbox"/>	
Surface:	RCP (Smooth) <input checked="" type="checkbox"/>	RCP (Rough) <input type="checkbox"/>	
Traction:	Low <input type="checkbox"/>	Medium <input checked="" type="checkbox"/>	High <input type="checkbox"/>
Condition:	Bumpy <input type="checkbox"/>	Smooth <input checked="" type="checkbox"/>	
	Dirty <input type="checkbox"/>	Clean <input checked="" type="checkbox"/>	
Temperature:	Ambient: _____	Track: _____	
Notes:	<hr/> <hr/> <hr/>		



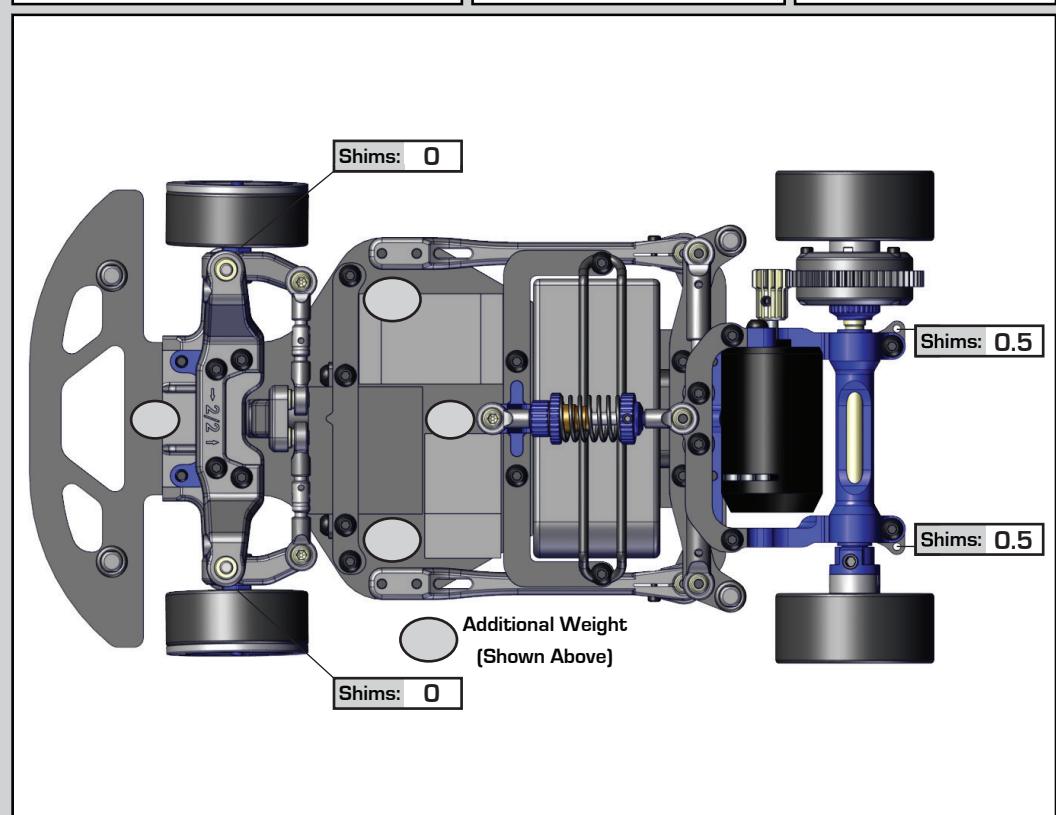
Vehicle Info:

Body:	
Wing:	
Body Notes:	
Wheelbase:	98mm
Weight:	
Notes:	_____



Electronics Info:

Radio:	Servo:	
EPA:	Throttle: %	Brake: %
ESC:		
ESC Settings:		
Motor:		
Pinion:	Spur:	53T
Battery:		
Notes:	<hr/> <hr/> <hr/>	



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

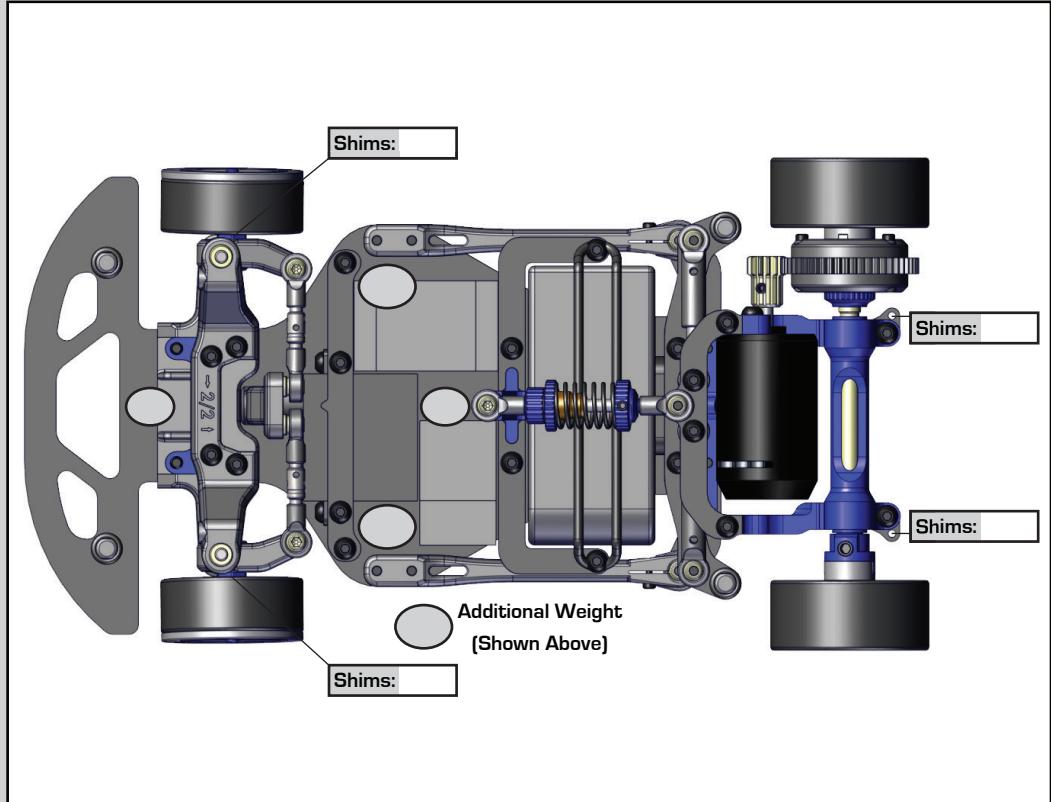
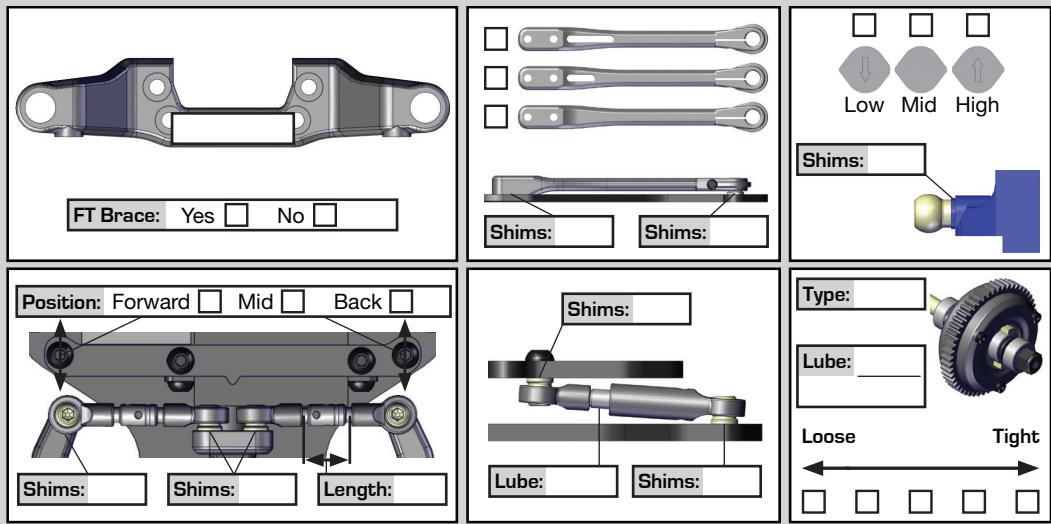
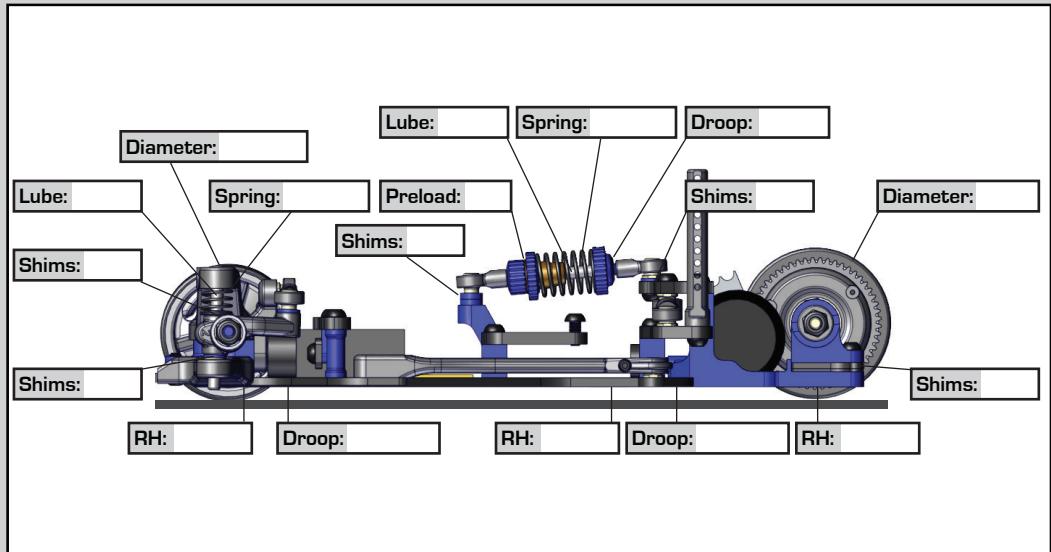
Front Wheel Flange Diameter: None

Rear Tires: _____

Rear Wheels: _____ Offset: _____

Rear Adhesive: CA Glue Tape

Notes:



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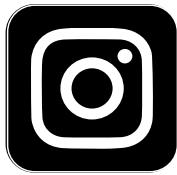
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