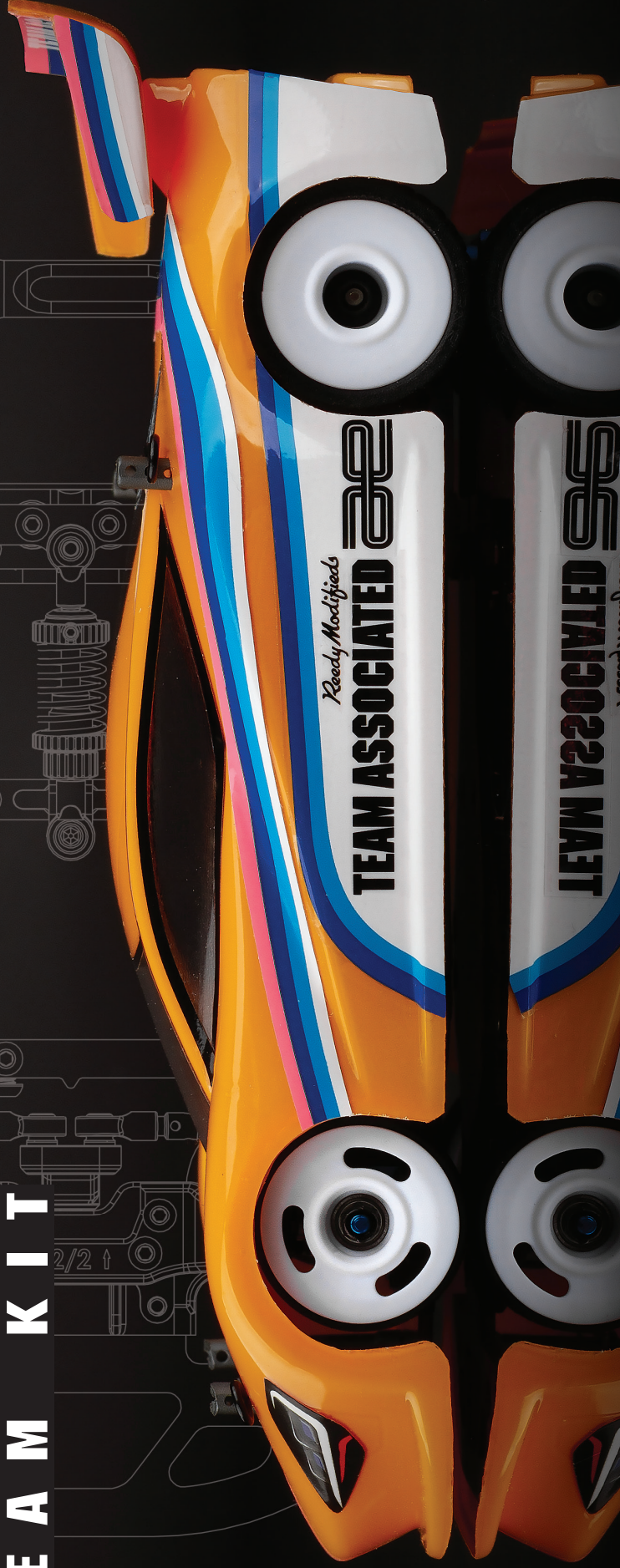


RC28 TEAM KIT

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



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 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 | • Battery charger
(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) |
| | • 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 | • .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.



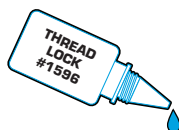
This symbol indicates there are optional FT parts available



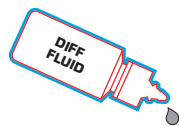
This symbol indicates a Racers Tip.



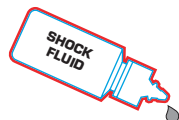
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.



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



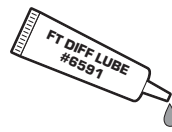
This symbol indicates where Diff Fluid should be applied.



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.

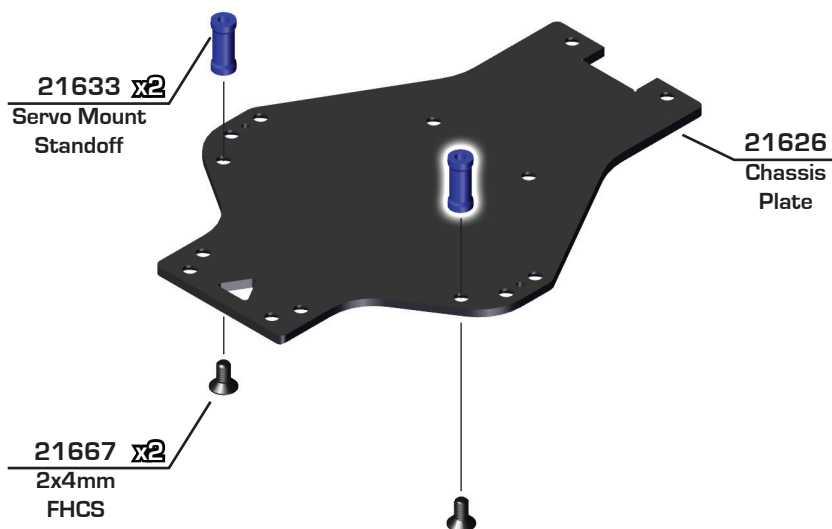


This symbol indicates where Green Slime can be applied. *not included

Bag 1 - Step 1



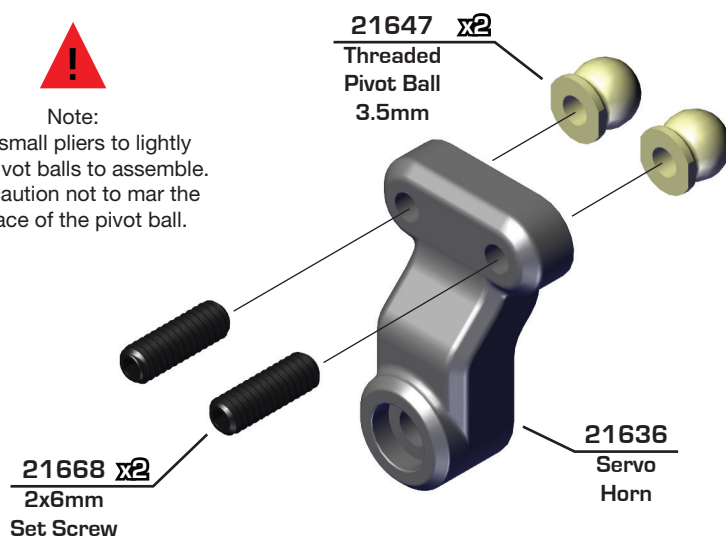
Hardware note:
Some M2 hardware may use
.050" hex instead of 1.3mm
hex depending on the
production batch.



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.



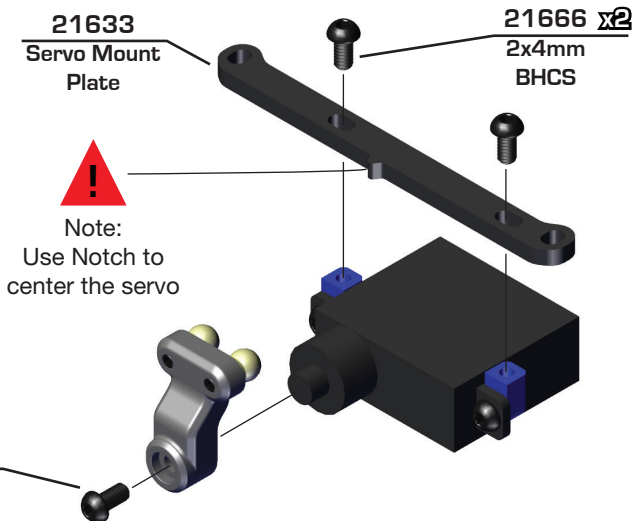
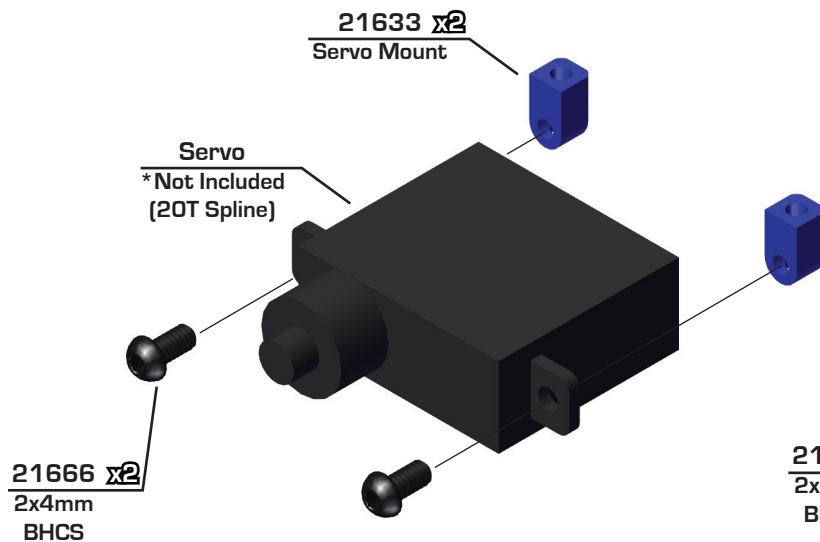
Note:
Install set screws flush
with servo horn!



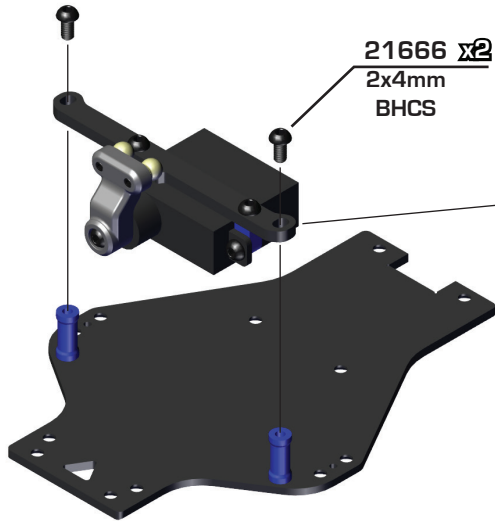
Note:
Servo horn designed for 20T
4mm diameter spline servo.



Bag 1 - Step 3



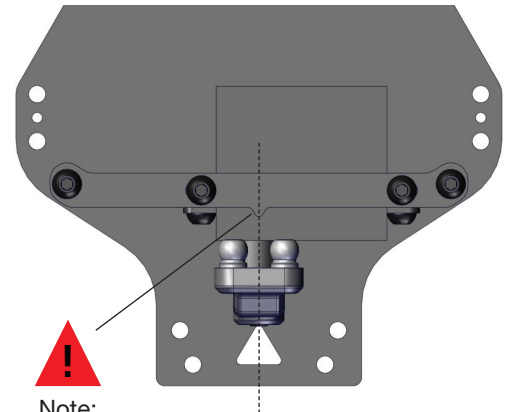
:: Bag 1 - Step 4



21666 x2
2x4mm
BHCS



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.

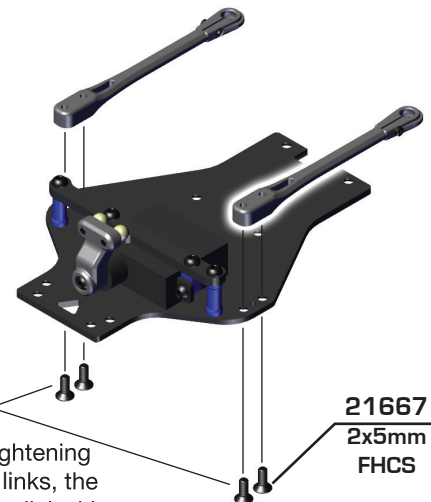


21639
Torsion Link,
Medium

21669 x2
1x3mm
PHCS

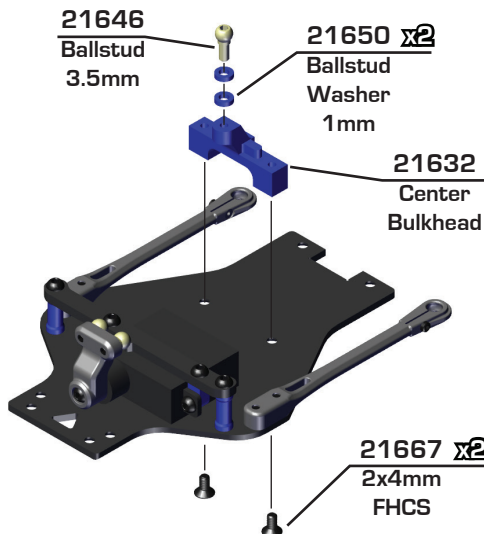


Note:
Take care when tightening
screws for torsion links, the
link needs to be parallel with
the center line of the chassis.



21667 x4
2x5mm
FHCS

:: Bag 1 - Step 6



21646
Ballstud
3.5mm

21650 x2
Ballstud
Washer
1mm

21632
Center
Bulkhead

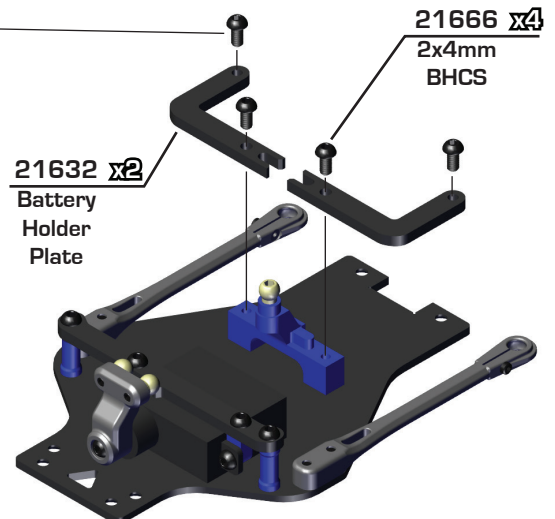
21667 x2
2x4mm
FHCS



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



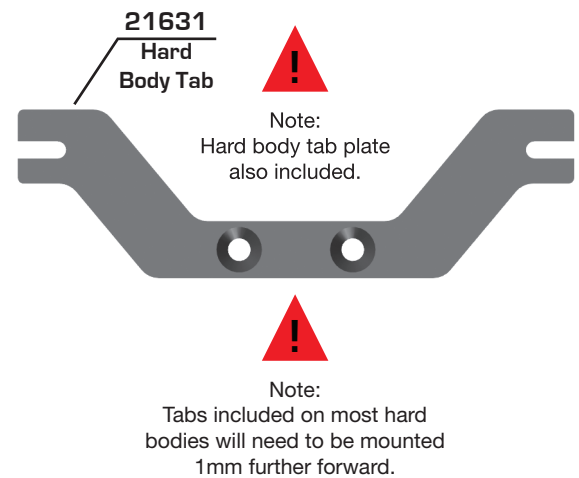
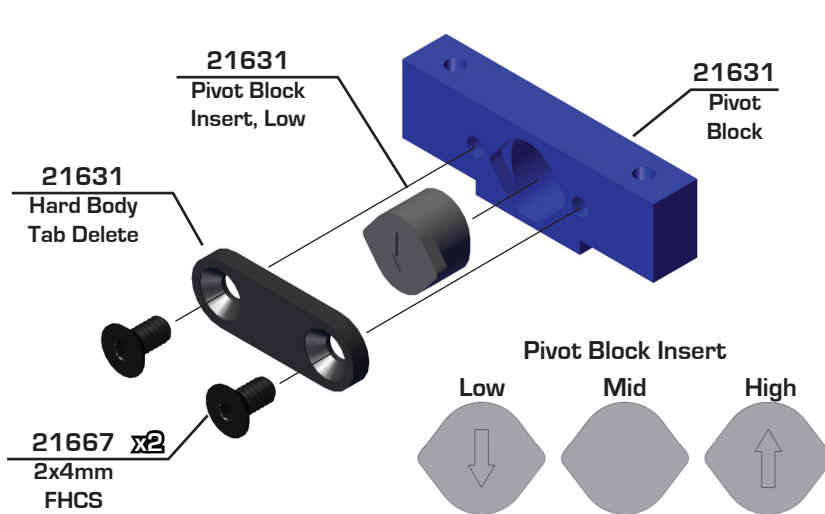
Note:
Set O-Ring aside for
battery installation.



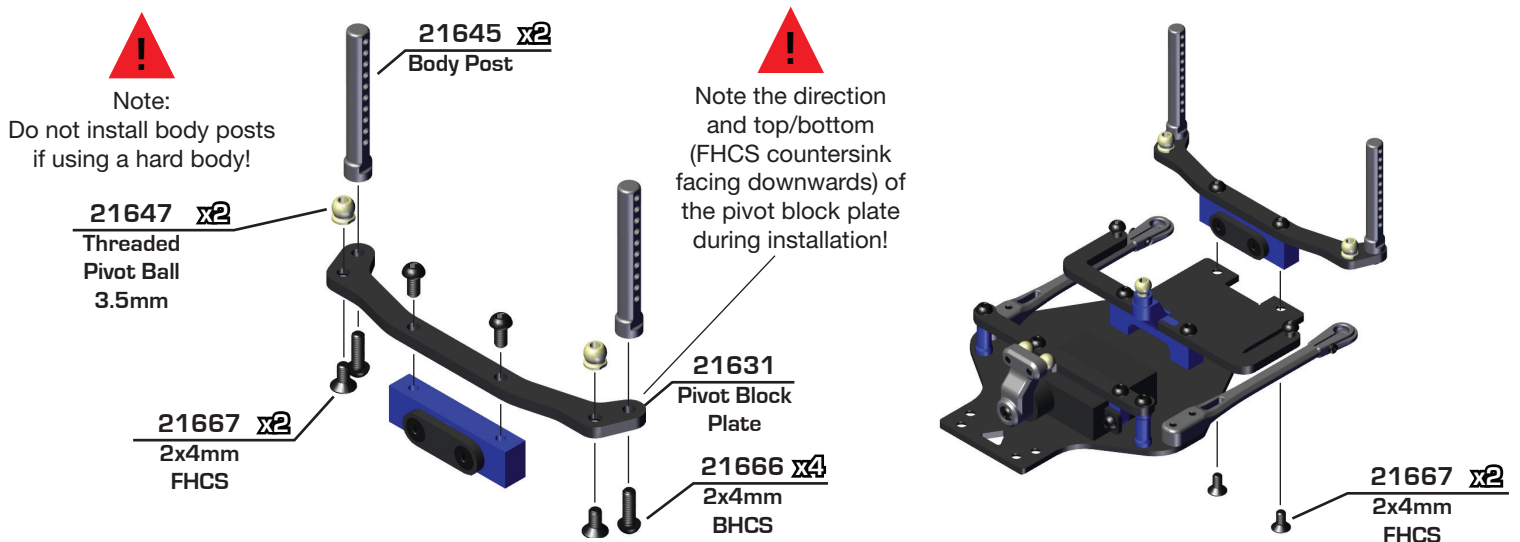
21632 x2
Battery
Holder
Plate

21666 x4
2x4mm
BHCS

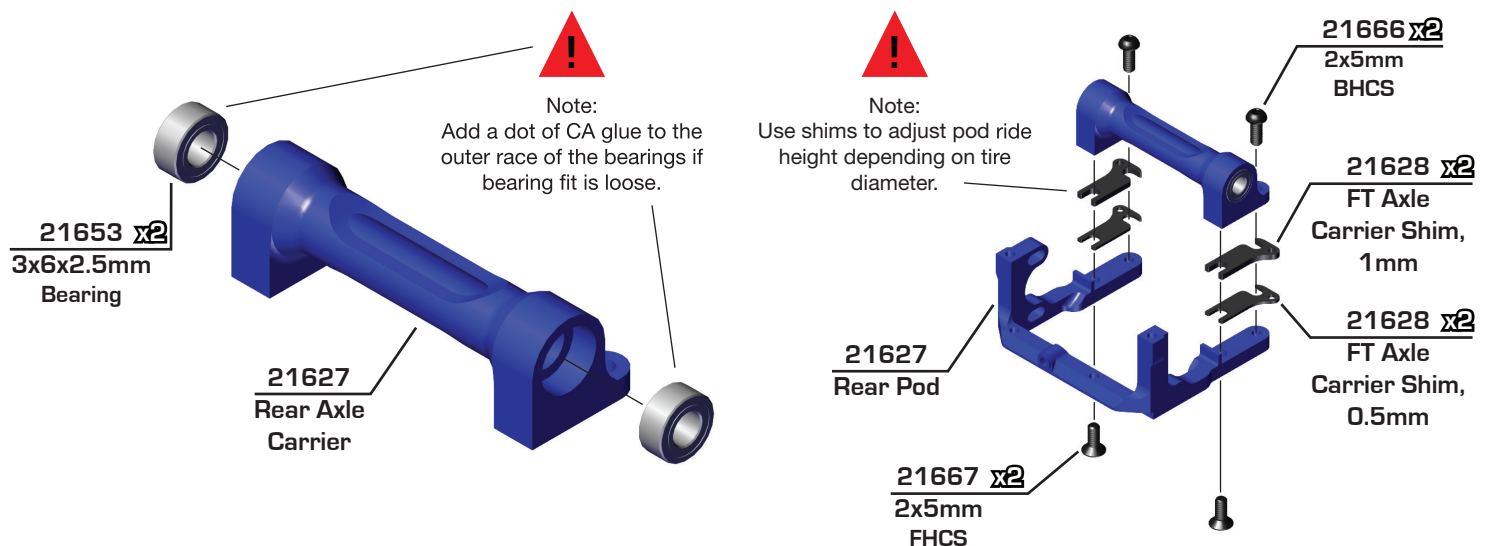
:: Bag 2 - Step 1



:: 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

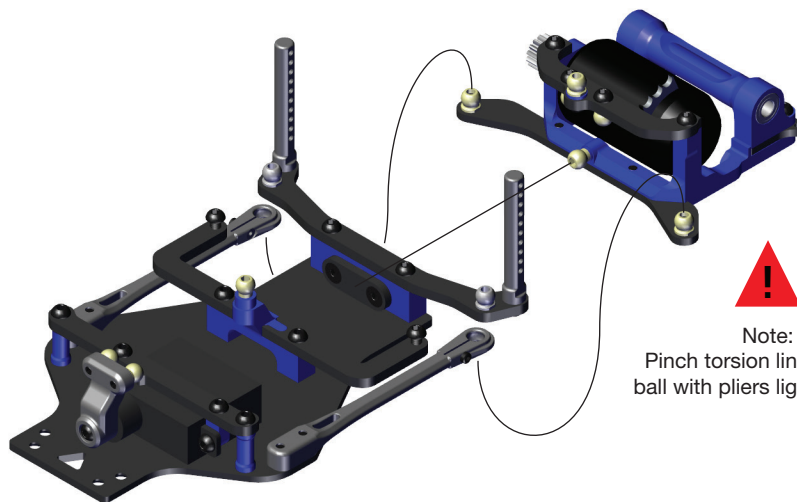
Note the direction
and top/bottom
(FHCS countersink
facing downwards)
of the lower pod plate.

Motor
*Not Included

Pinion and
Set Screw
*Not Included

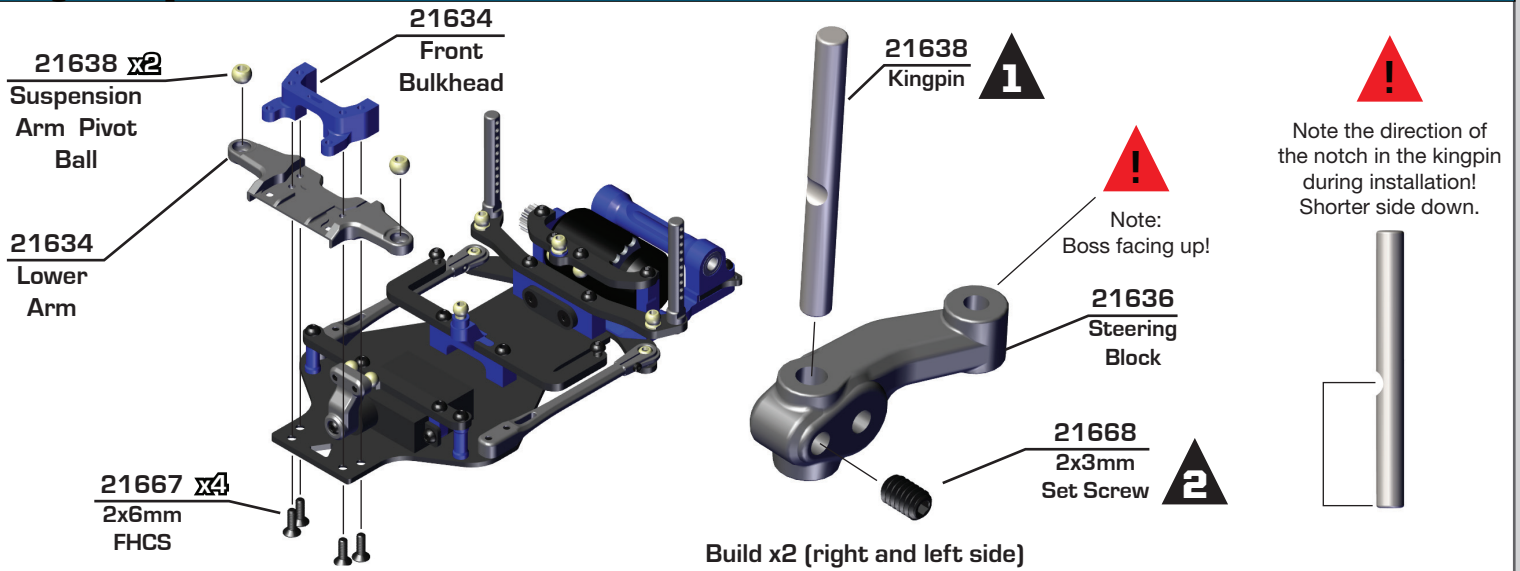
21666 x2
2x5mm
BHCS

Bag 3 - Step 4

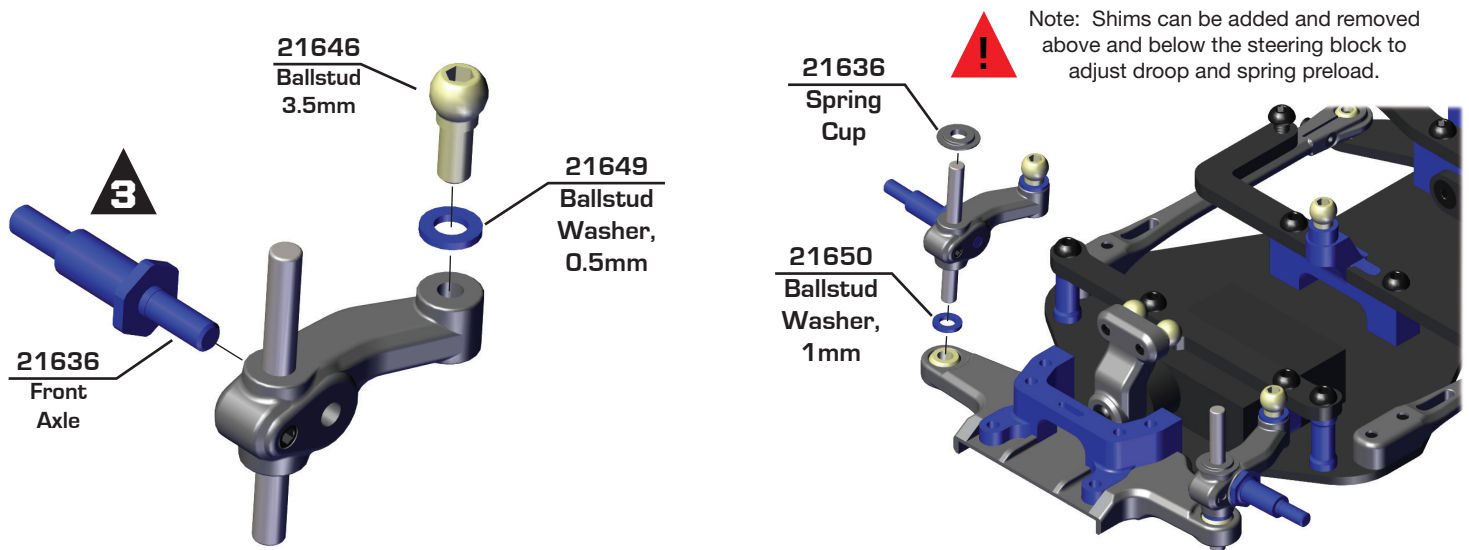


Note:
Pinch torsion link on pivot
ball with pliers lightly if tight.

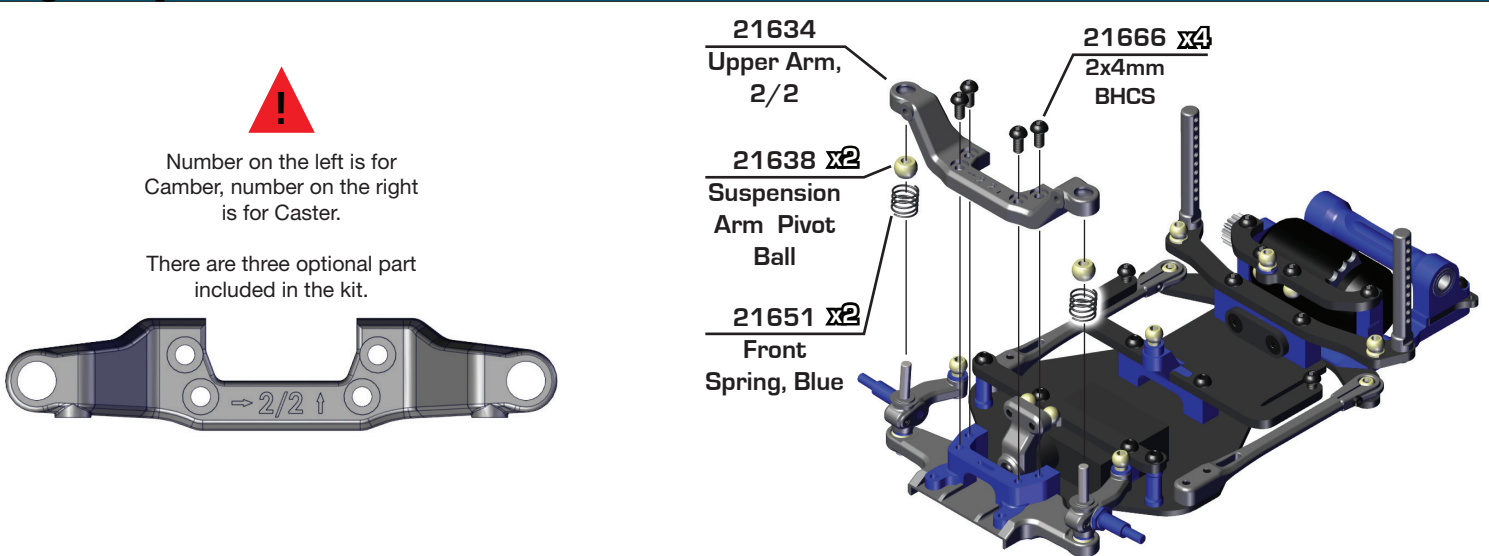
Bag 4 - Step 1



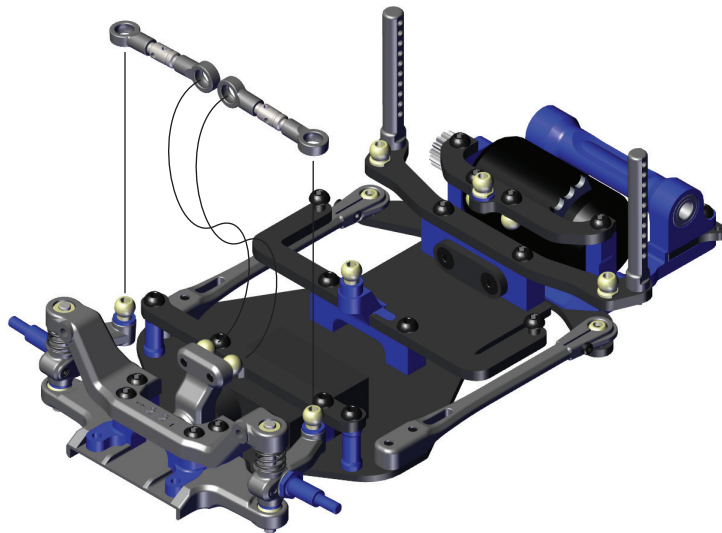
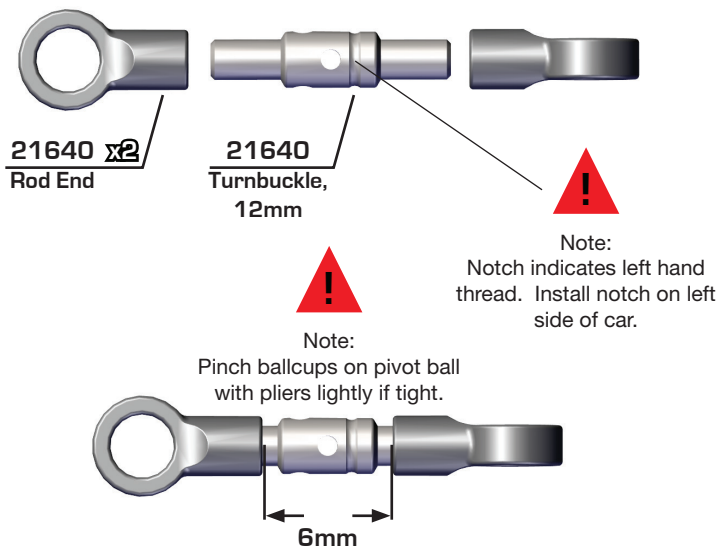
Bag 4 - Step 2



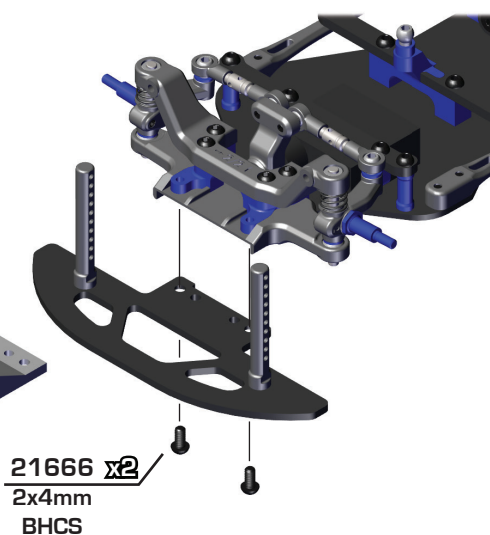
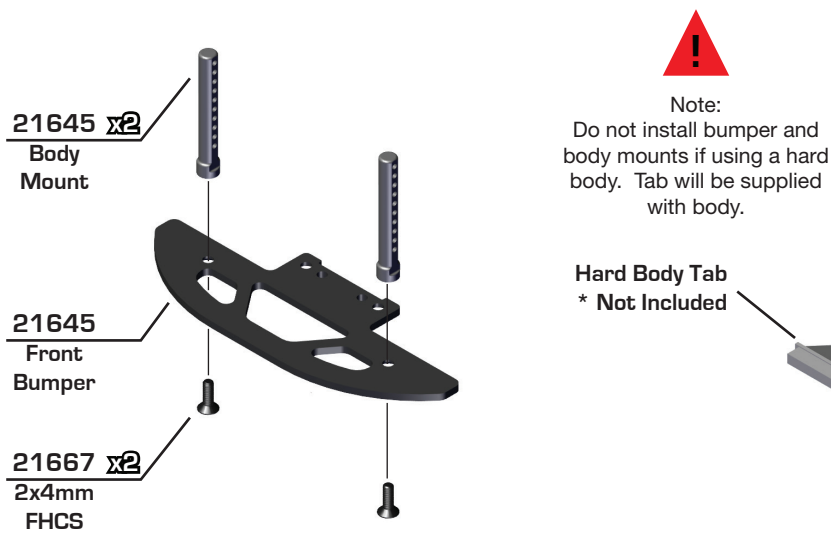
Bag 4 - Step 3



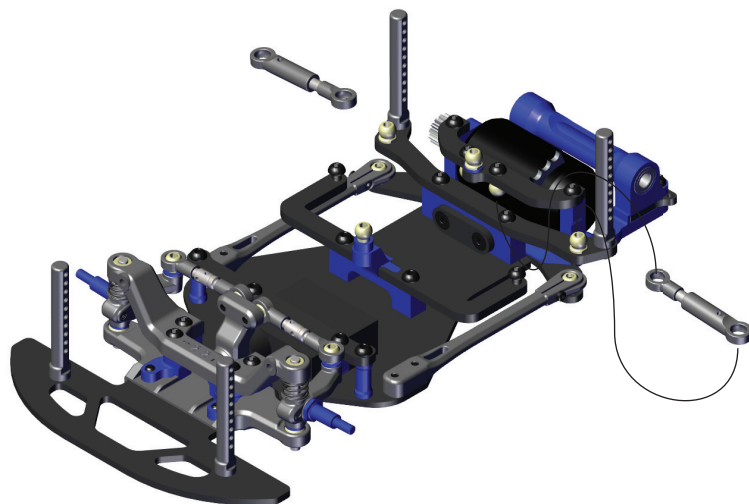
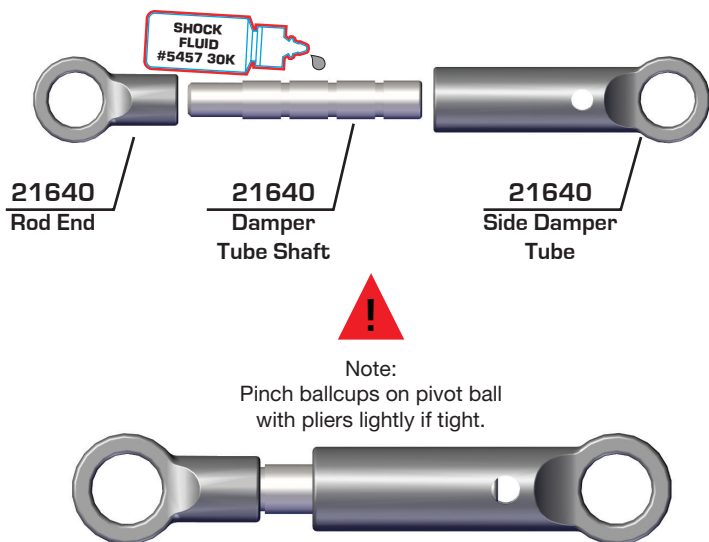
:: Bag 4 - Step 4



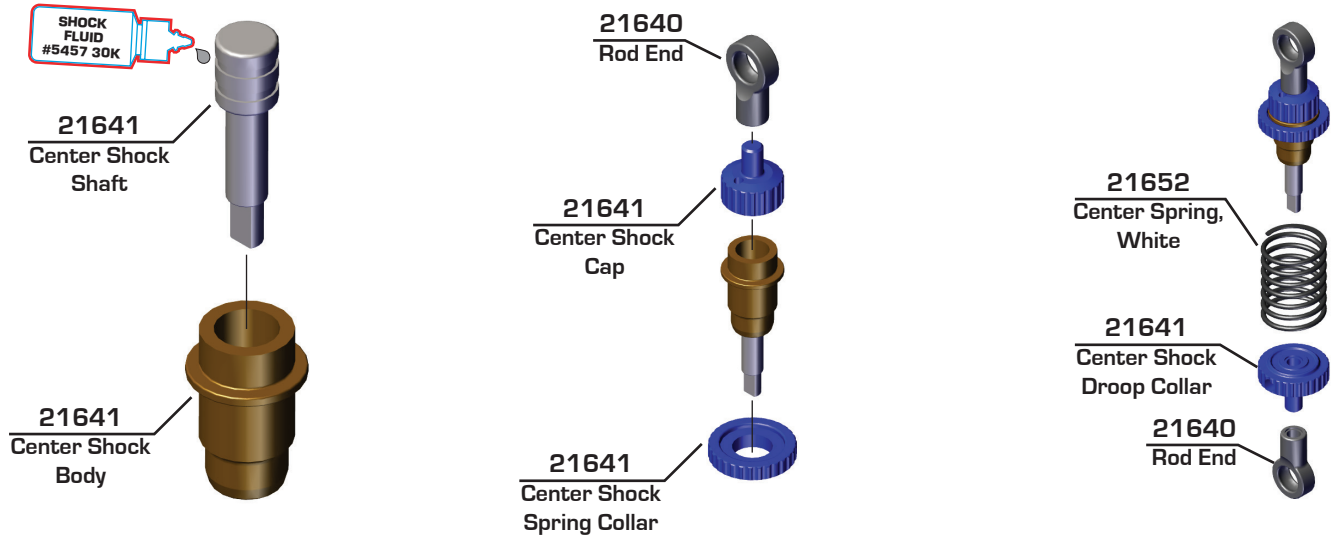
:: Bag 4 - Step 5



:: Bag 5 - Step 1



:: Bag 5 - Step 2

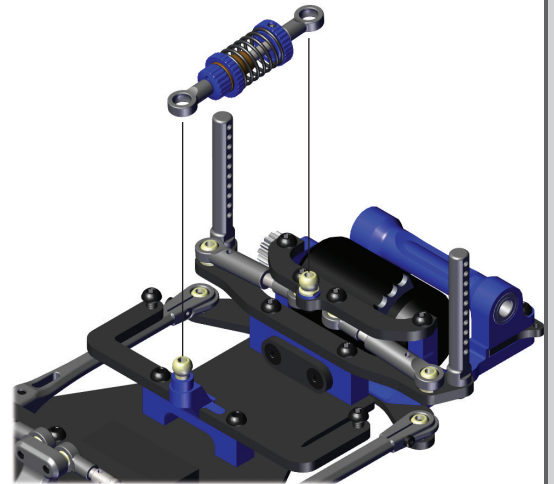


:: Bag 5 - Step 3

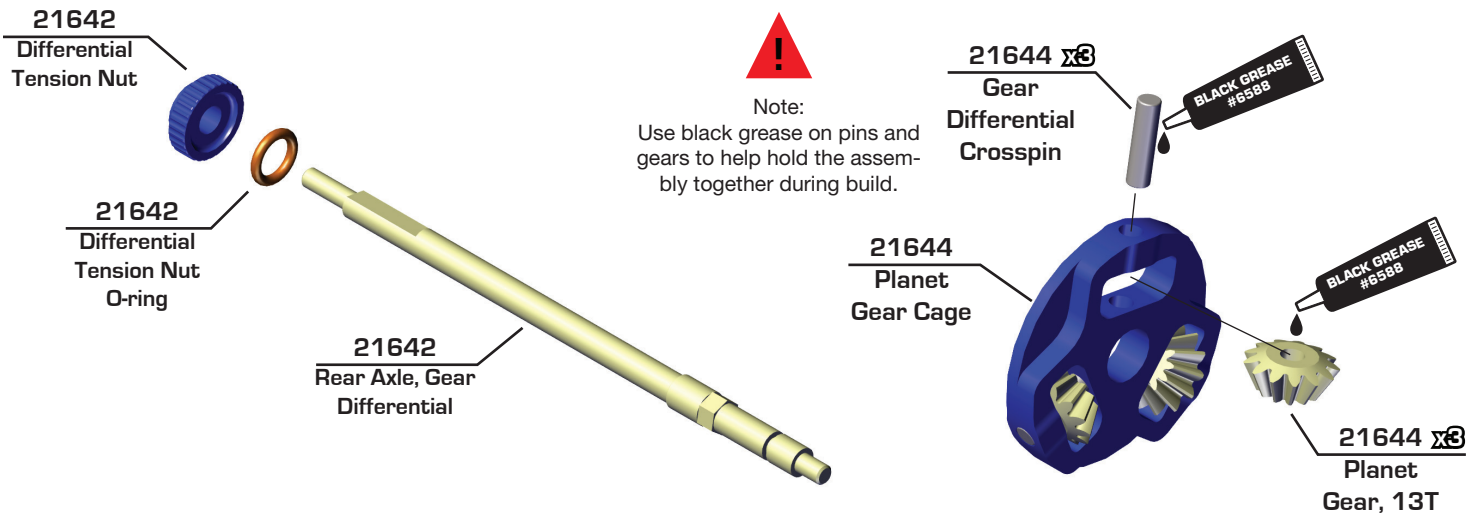
!

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

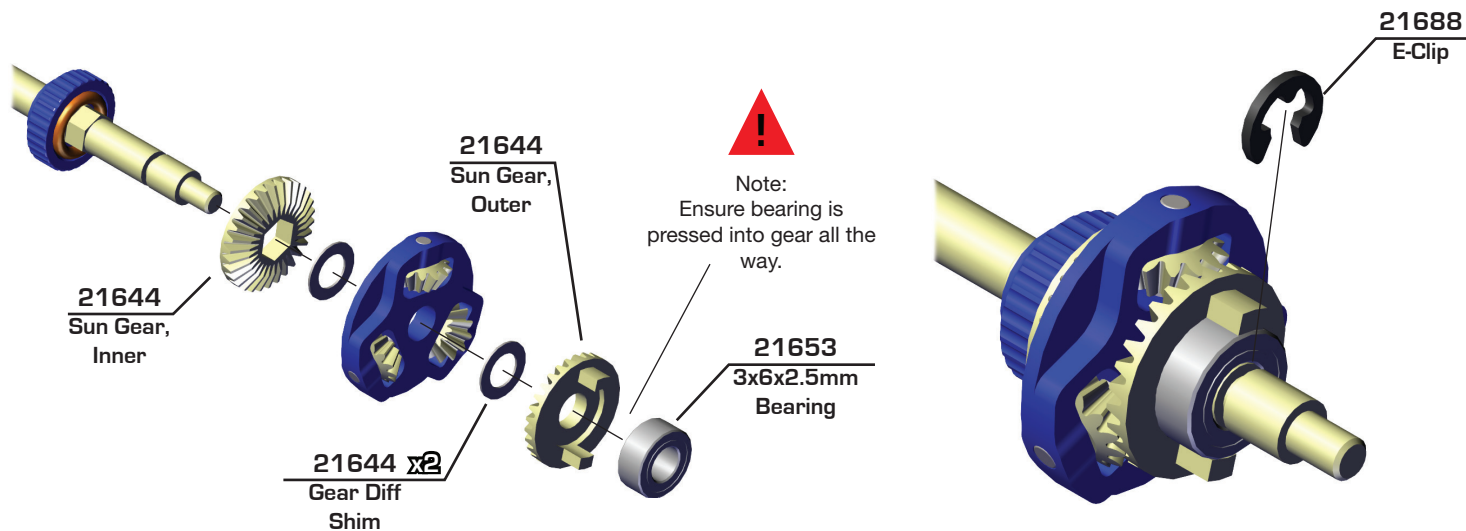
21668
2x3mm
Set Screw



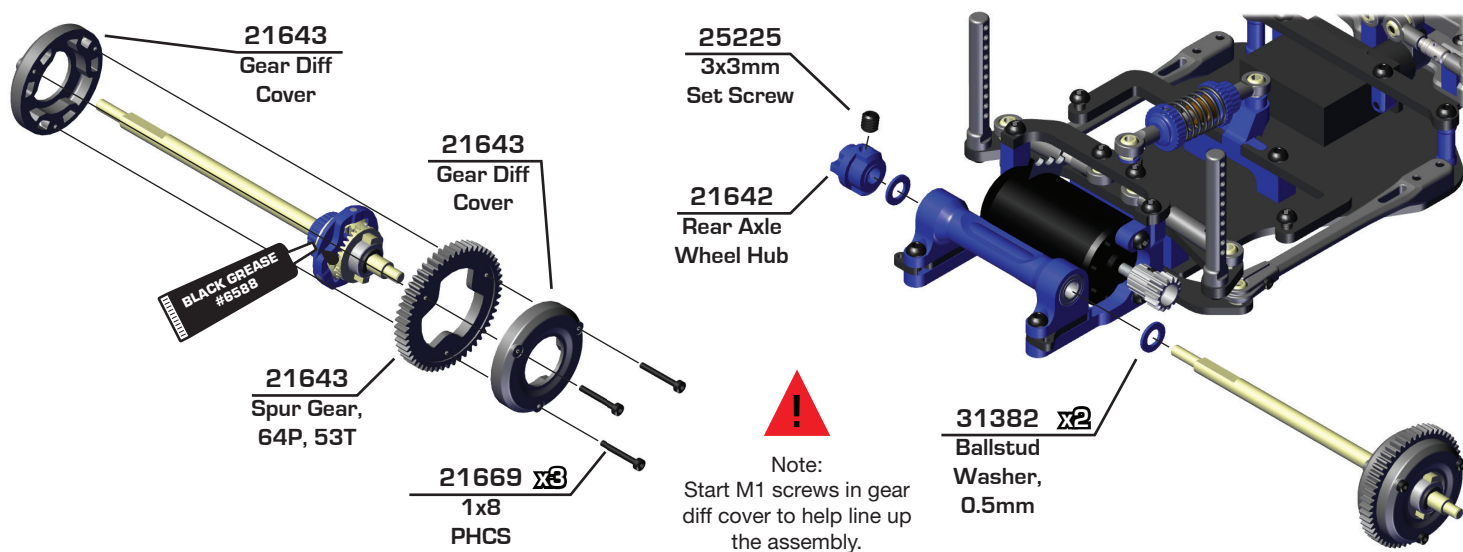
:: Bag 6 - Step 1



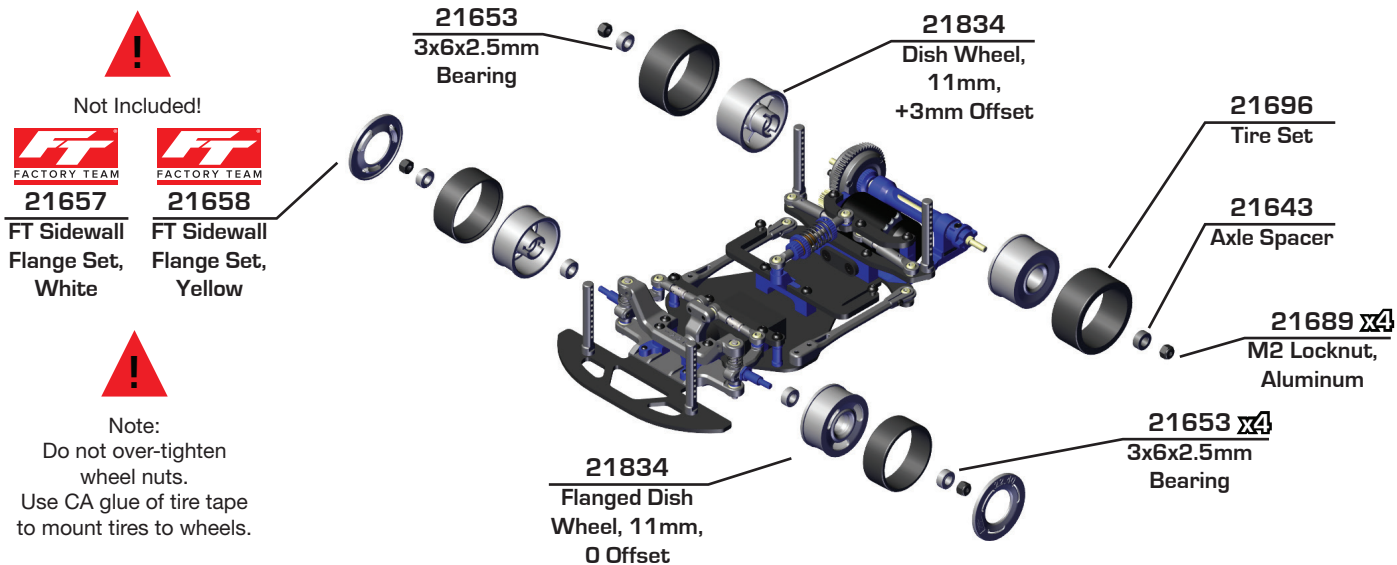
:: Bag 6 - Step 2



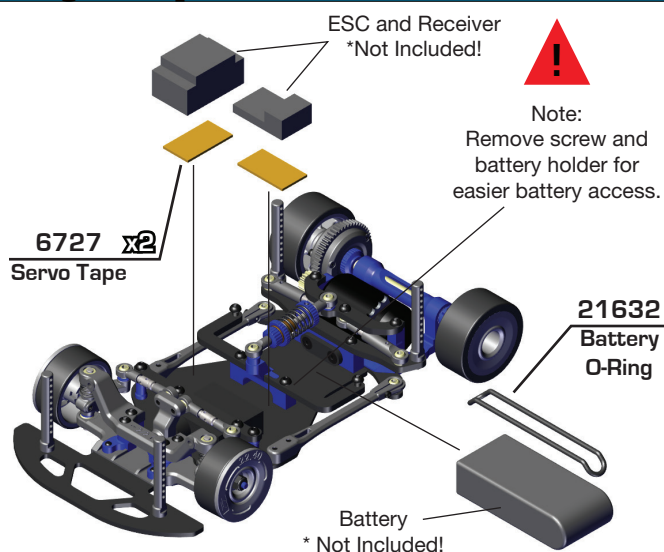
:: Bag 6 - Step 3



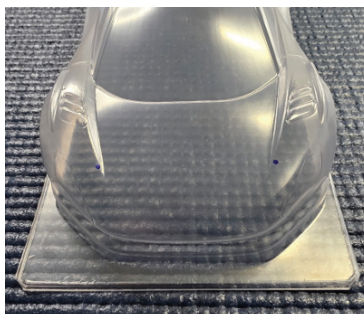
:: Bag 7 - Step 1



Bag 7 - Step 2



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.

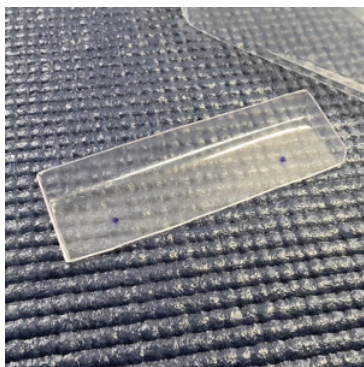
Paint mask and body decals included.
Trim wheel wells to clear wheel and tires as needed.



Wing Mounting:

1. Cut out the wing along the outer lines. Trim wing down as desired for tuning.

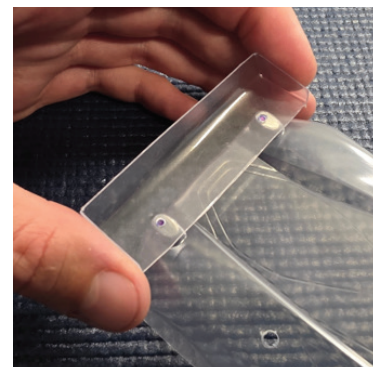
2. Mount the wing by reaming existing dimples (front set of dimples suggested).



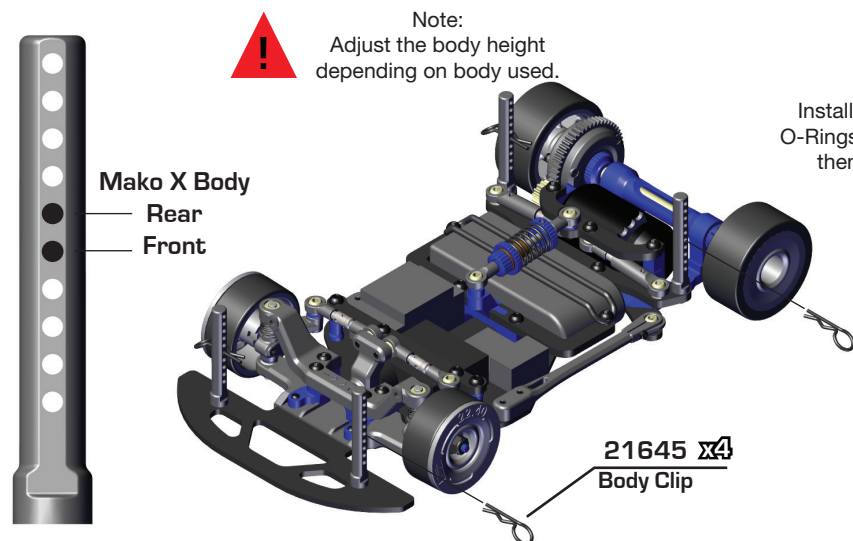
3. Use reamed holes on the wing as a guide for reaming mounting holes on the body. Take care to center the wing side to side and keep it square.

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.



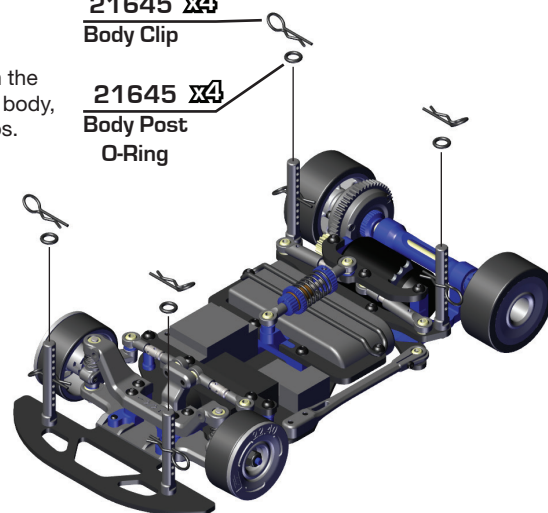
Bag 7 - Step 4



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

21645 x4
Body Clip

21645 x4
Body Post O-Ring



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 ☐

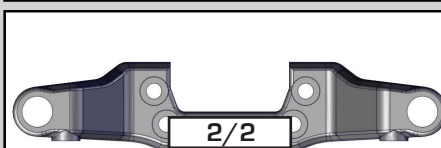
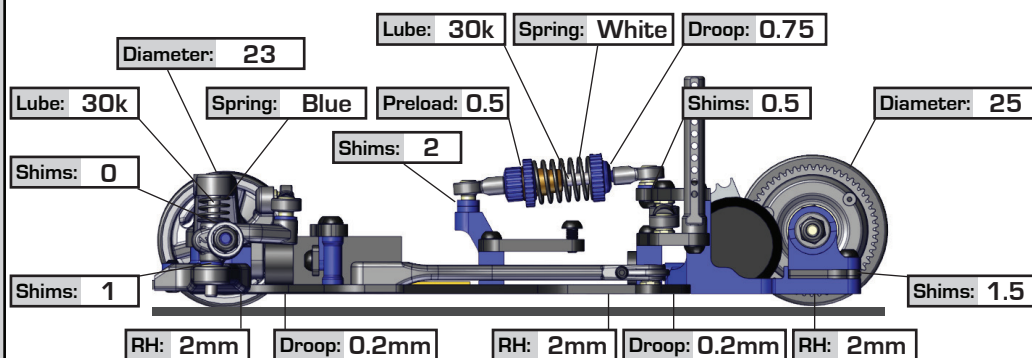
Front Wheel Flange Diameter: _____ None ☐

Rear Tires: _____

Rear Wheels: _____ Offset: **+3**

Rear Adhesive: CA Glue ☐ Tape ☐

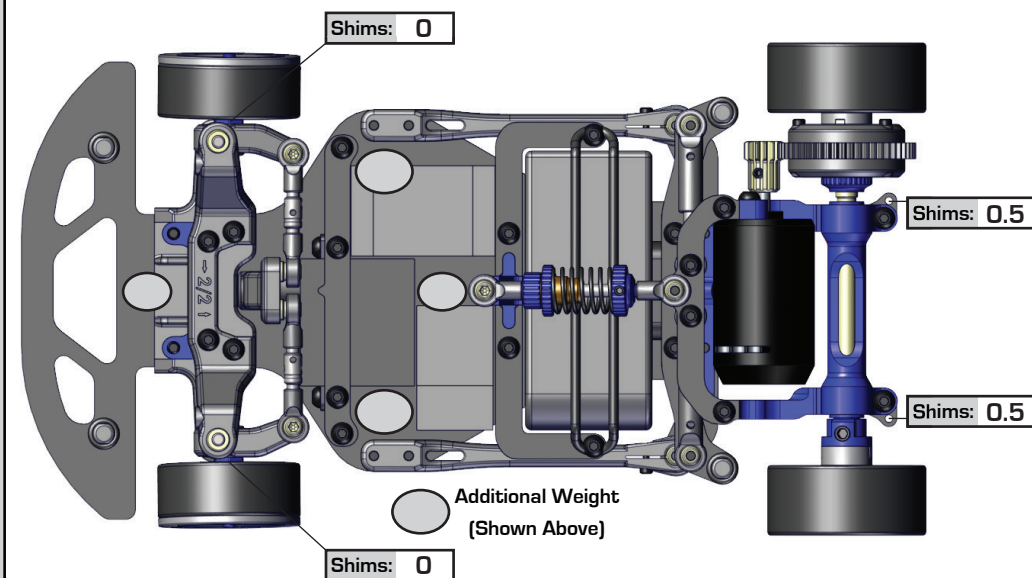
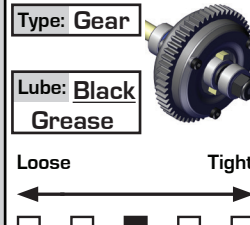
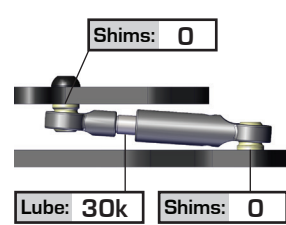
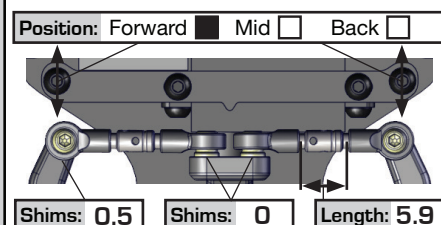
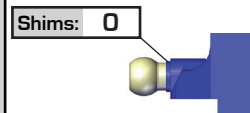
Notes: _____



FT Brace: Yes ☐ No ☒



Low Mid High



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 ☐

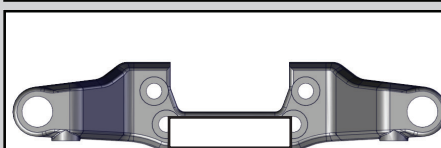
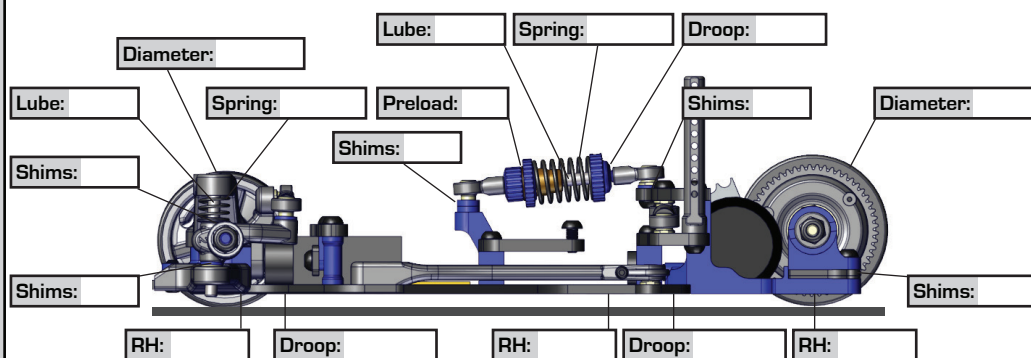
Front Wheel Flange Diameter: _____ None ☐

Rear Tires: _____

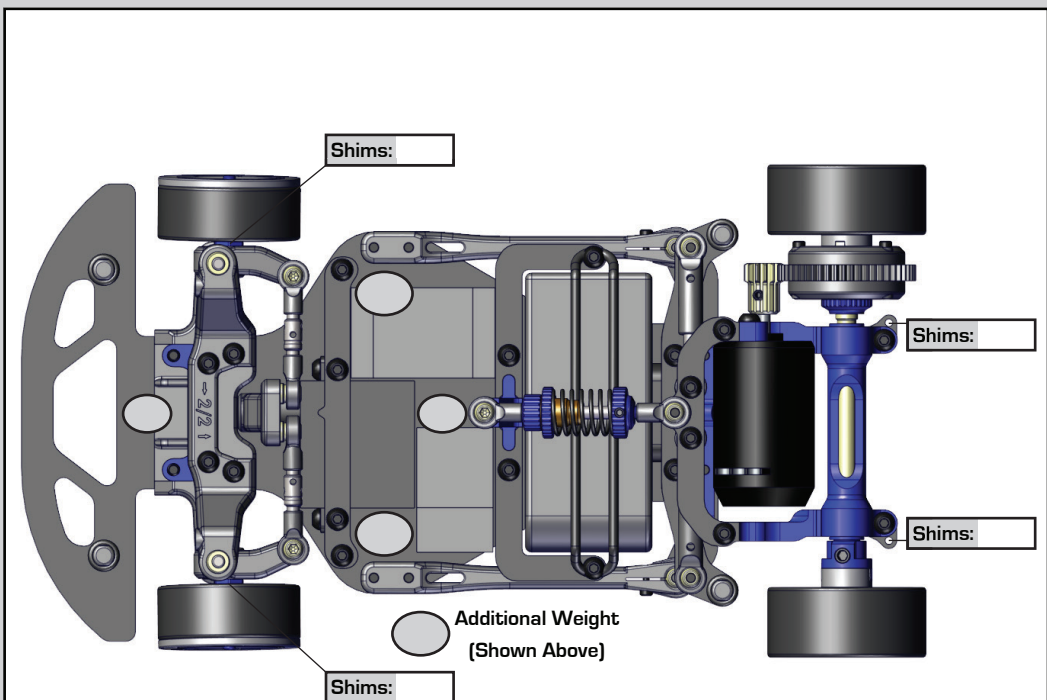
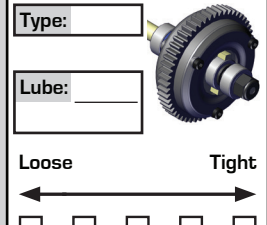
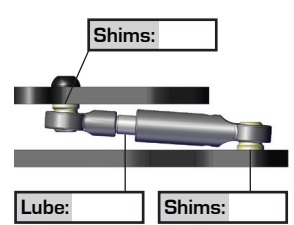
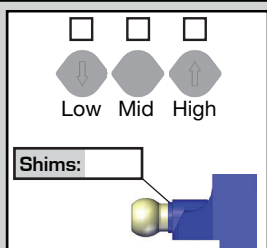
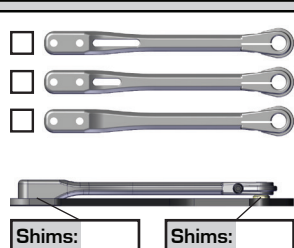
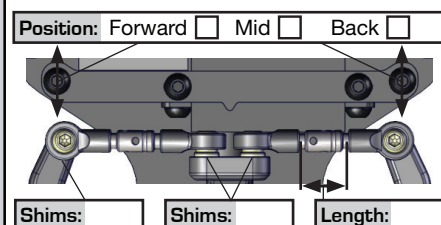
Rear Wheels: _____ Offset: _____

Rear Adhesive: CA Glue ☐ Tape ☐

Notes: _____



FT Brace: Yes ☐ No ☐



FIND IT ON ASSOCIATEDELECTRICS.COM

CARS & TRUCKS



Vehicle Spare Parts

GO TO:

AssociatedElectrics.com ➡
Team Associated tab ➡
Cars & Trucks ➡
Scroll to your vehicle ➡
Parts & Accessories link

**SETUP SHEETS
& MANUALS**



Setups and Manuals

GO TO:

AssociatedElectrics.com ➡
Team Associated tab ➡
Manuals & Setups ➡
Scroll to your vehicle

A-TEAM APPS



Tuning Guides & Tips

GO TO:

AssociatedElectrics.com ➡
Support ➡
A-Team Apps



Associated Electrics, Inc.

21062 Bake Parkway Lake Forest, CA 92630 USA

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