

RC28R.1

TEAM MAKIT

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

#20194 RC28R.1 2WD Kit



:: 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.1 Features

- Updated steel chassis and center bulkhead design allows for 24mm wide battery packs and more space for mounting electronics while also reducing chassis scrub
- New upper arm options included offer .5 and 1 degree of camber with 2 and 4 degrees of caster
- Includes FT carbon fiber upper arm brace and front bulkhead shim
- Radbody Mako X2 included
- 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
- V2 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.
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Customer Service
Tel: 949.544.7500
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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

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2.....	Introduction	11.....	Gear Differential Build Bag 6
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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.



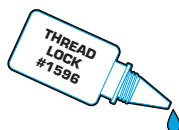
This symbol indicates there are optional FT parts available



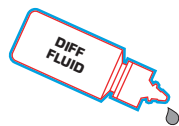
This symbol indicates a Racers Tip.



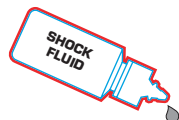
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.



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.

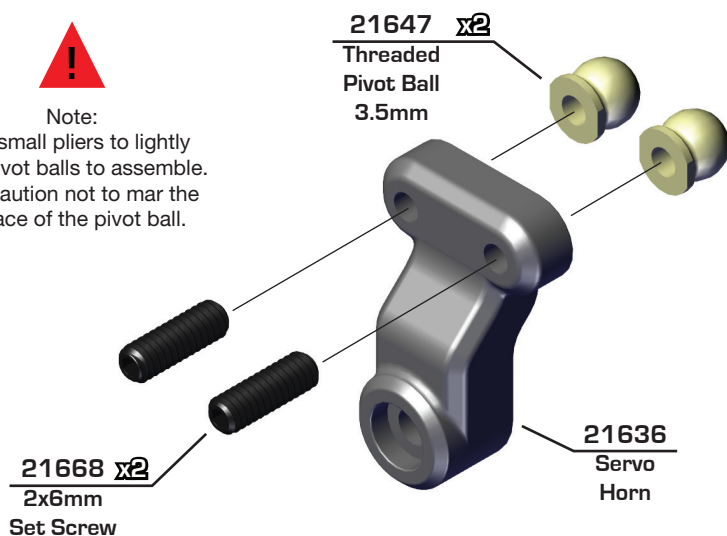


This symbol indicates where Green Slime can be applied. *not included

Bag 1 - Step 1



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 2



27175

Reedy Micro
Hi-Speed
Servo

Servo

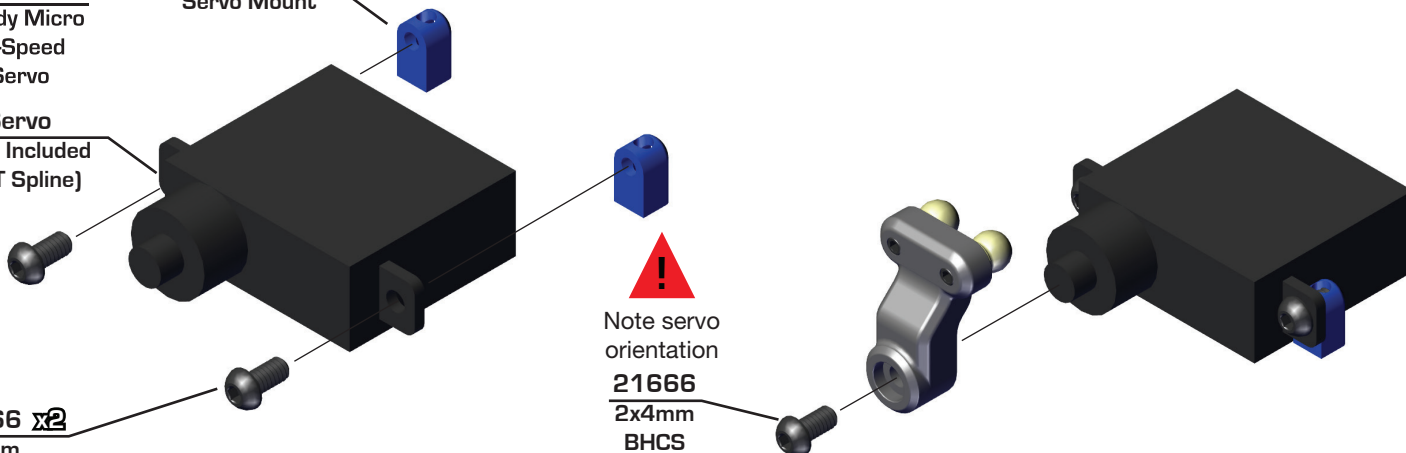
*Not Included
(20T Spline)

21633 x2
Servo Mount

21666 x2
2x4mm
BHCS

Note servo
orientation

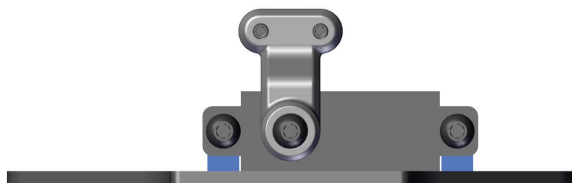
21666
2x4mm
BHCS



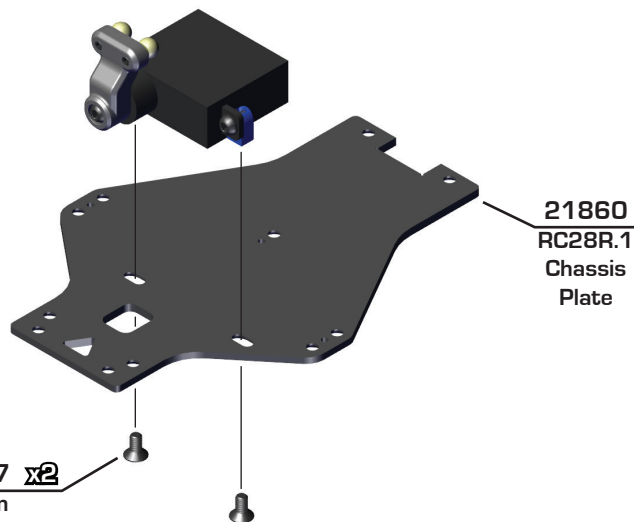
Bag 1 - Step 3



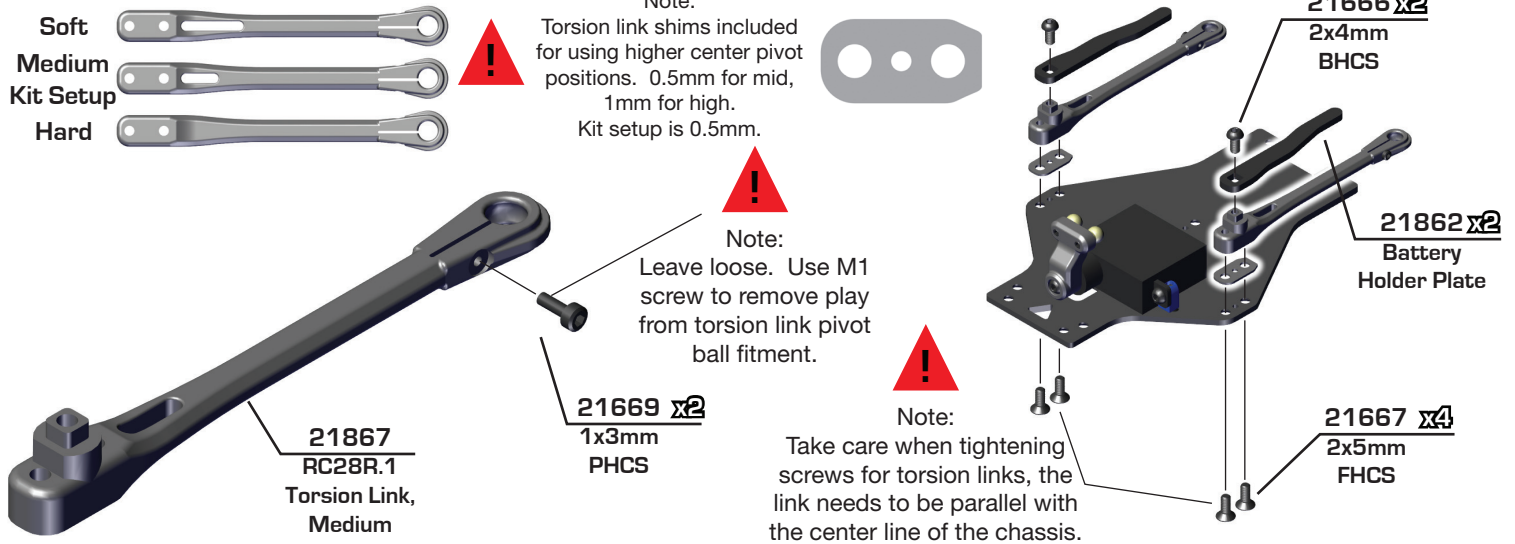
Center steering servo so
that the servo horn is on the
centerline of the chassis



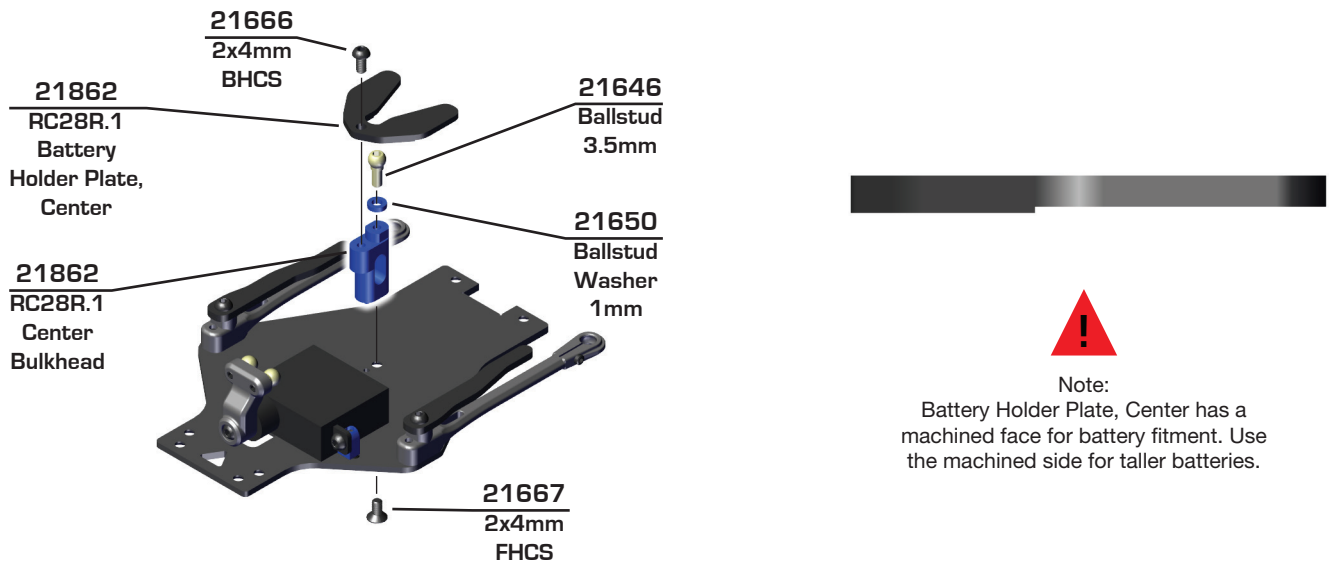
21667 x2
2x4mm
FHCS



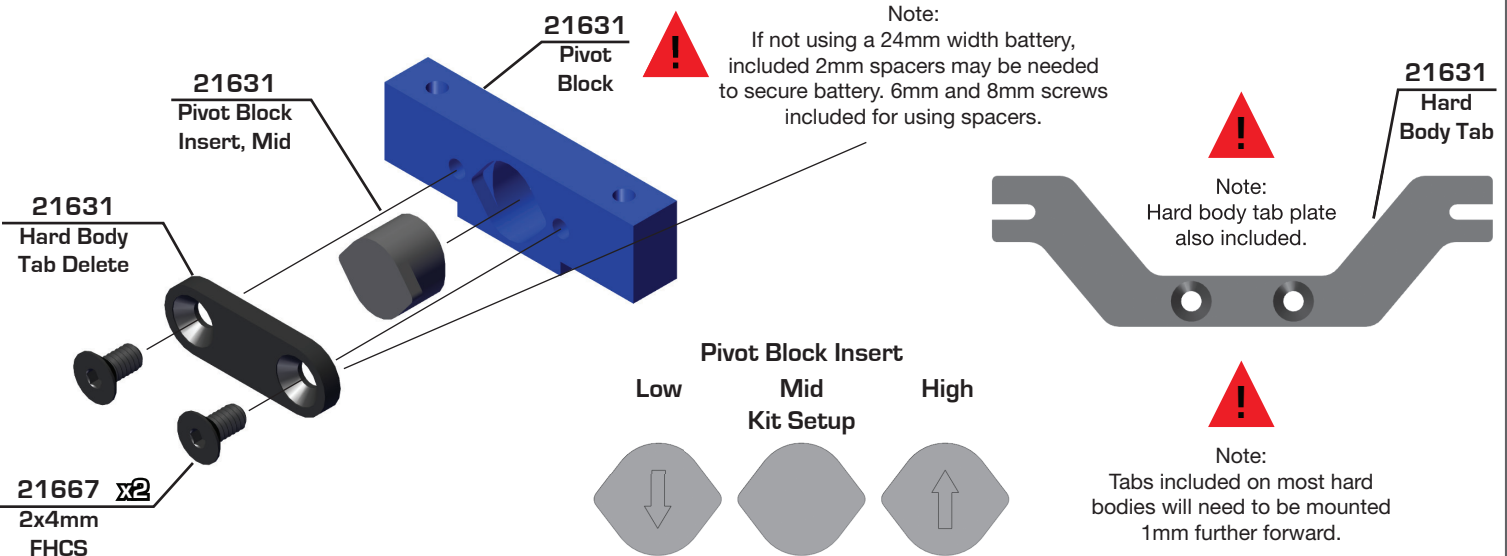
:: Bag 1 - Step 4



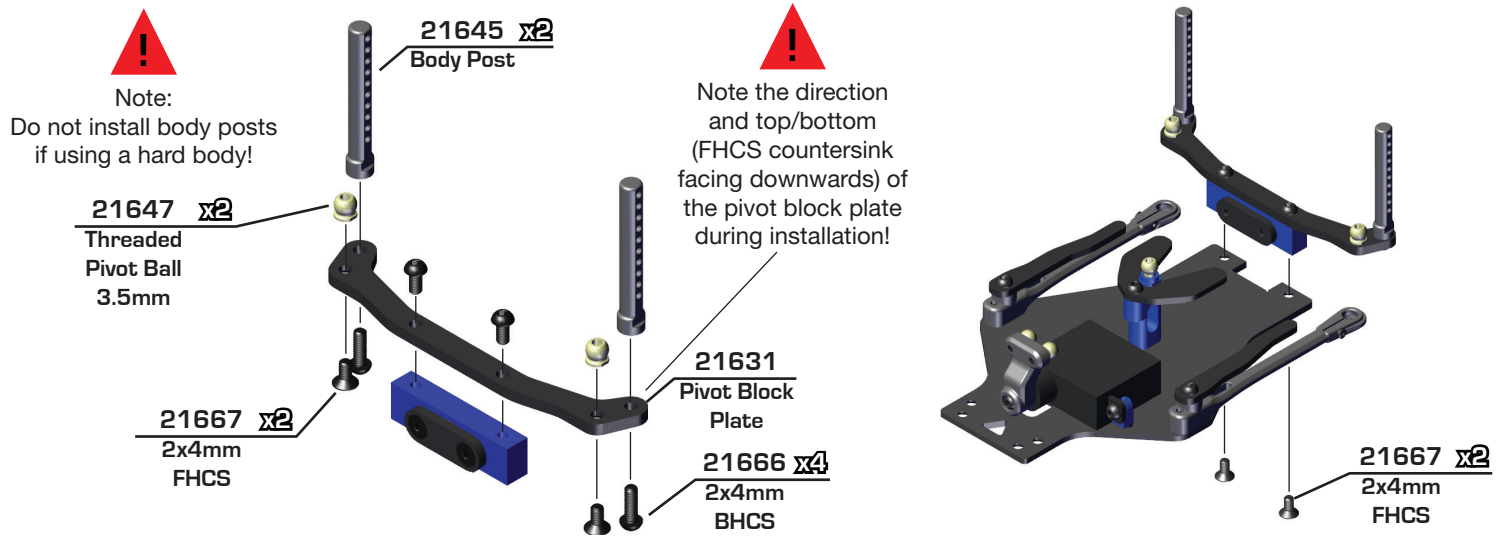
:: Bag 1 - Step 5



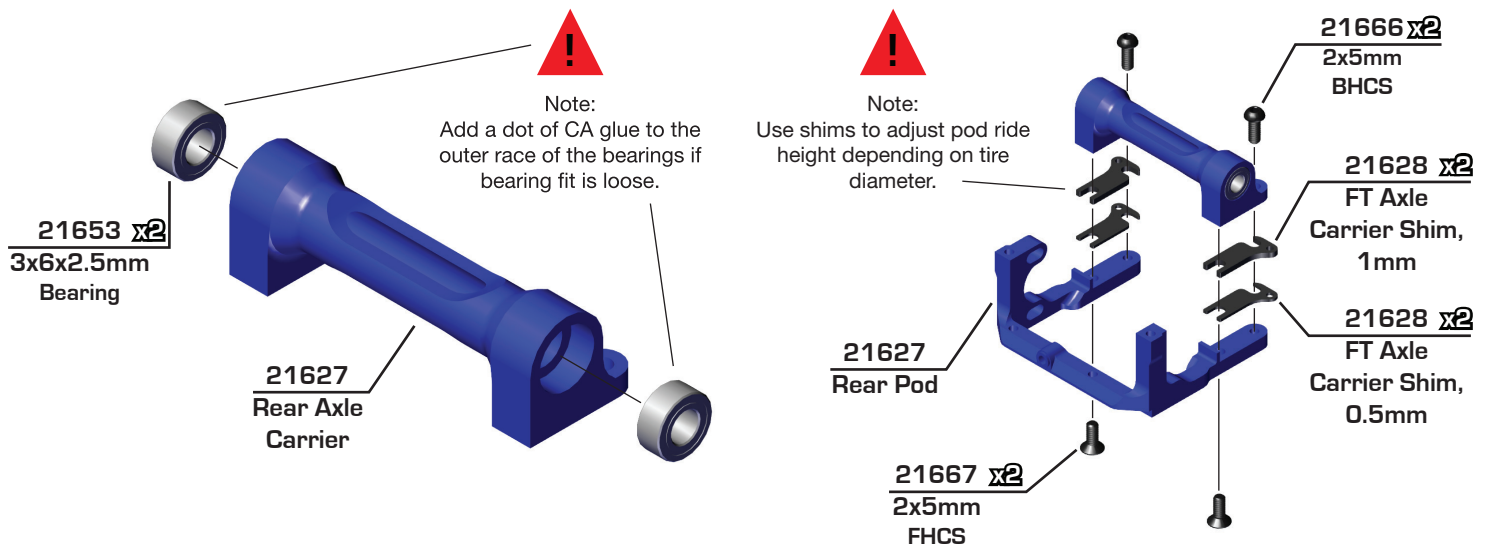
:: Bag 2 - Step 1



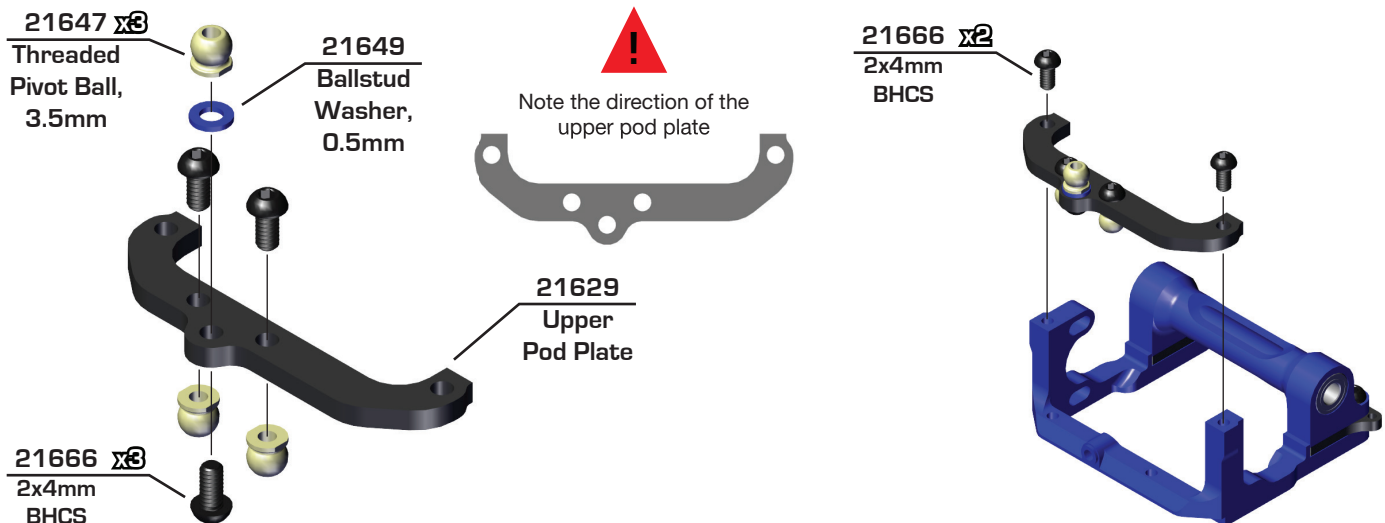
Bag 2 - Step 2



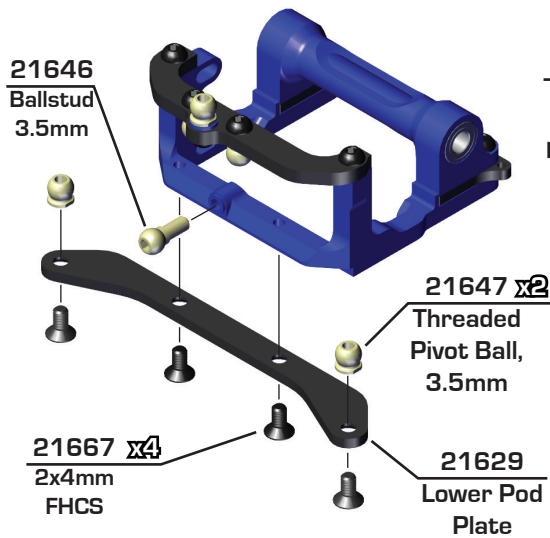
Bag 3 - Step 1



Bag 3 - Step 2



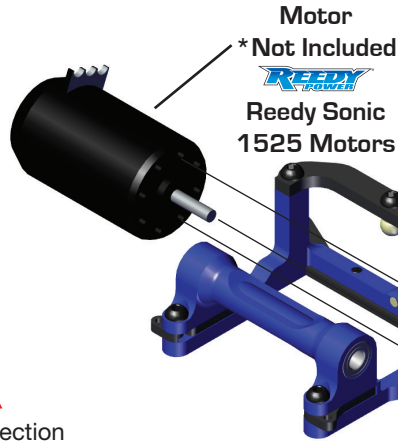
Bag 3 - Step 3



FACTORY TEAM
21630
 RC28R FT
 Lower Pod
 Plate, Steel



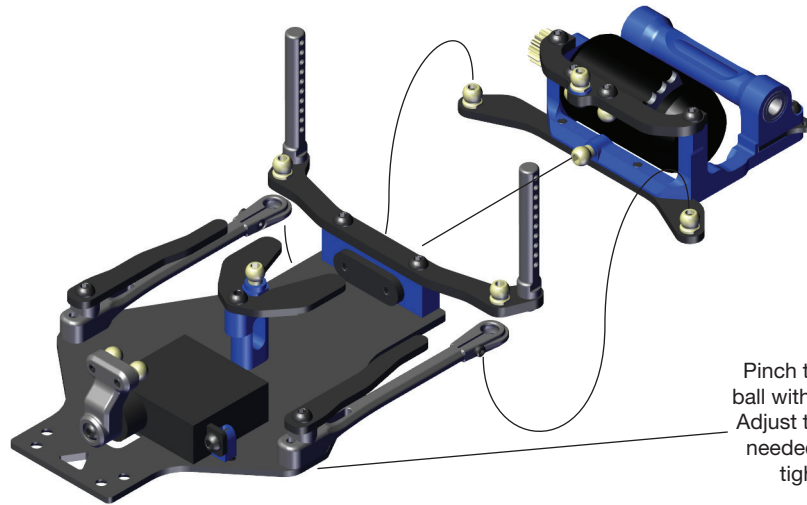
Note the direction and top/bottom (FHCS countersink facing downwards) of the lower pod plate.



FACTORY TEAM
21690
 RC28R FT
 Aluminum
 1:28 Scale
 Pinion Gear
 Set, 9-11
 Tooth - 64p

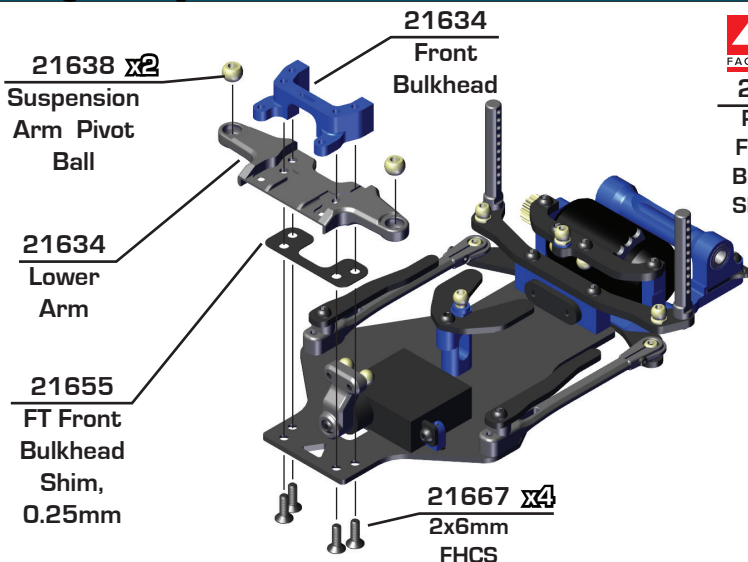
FACTORY TEAM
21691
 RC28R FT
 Aluminum
 1:28 Scale
 Pinion Gear
 Set, 12-14
 Tooth - 64p

Bag 3 - Step 4

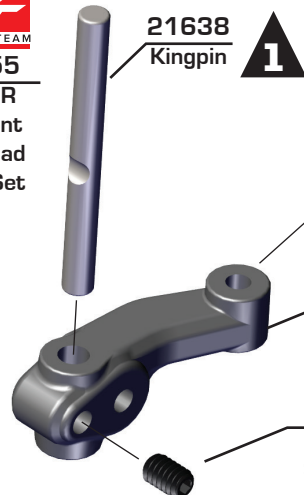


Note:
 Pinch torsion link on pivot ball with pliers lightly if tight. Adjust torsion bar tweak as needed by loosening and tightening screws.

Bag 4 - Step 1



FACTORY TEAM
21655
 RC28R
 FT Front
 Bulkhead
 Shim Set



Note the direction of the notch in the kingpin during installation! Shorter side down.



Note:
 Boss facing up!

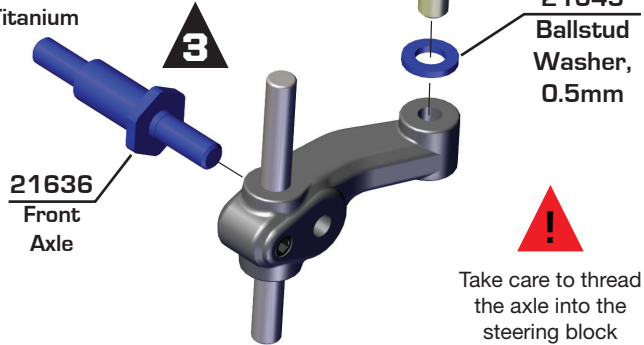


Build x2 (right and left side)

:: Bag 4 - Step 2



21637
RC28R FT
Adjustable
Front Axles,
Titanium



Build x2 (right and left side)



Note: Shims can be added and removed
above and below the steering block to
adjust droop and spring preload.

21636
Spring
Cup

21650
Ballstud
Washer,
1mm

Install x2 (right and left side)

:: Bag 4 - Step 3



Number on the left is for
Camber, number on the right
is for Caster.

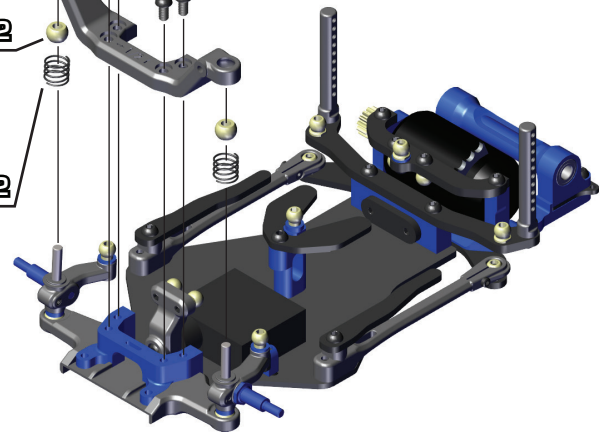


21634
Upper Arm,
2/2

21638 x2
Suspension
Arm Pivot
Ball

21651 x2
Front
Spring, Blue

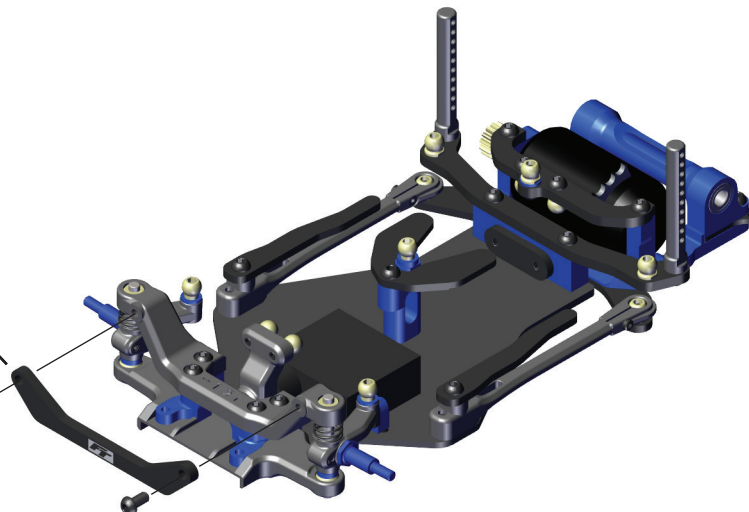
21666 x4
2x4mm
BHCS



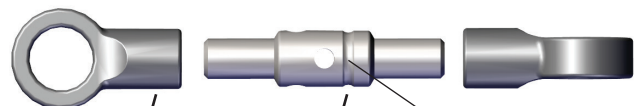
:: Bag 4 - Step 4

21635
FT RC28R
Upper
Arm Brace

21666 x2
2x4mm
BHCS



Bag 4 - Step 5

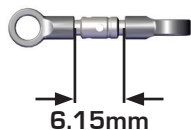


21640 x2
Rod End

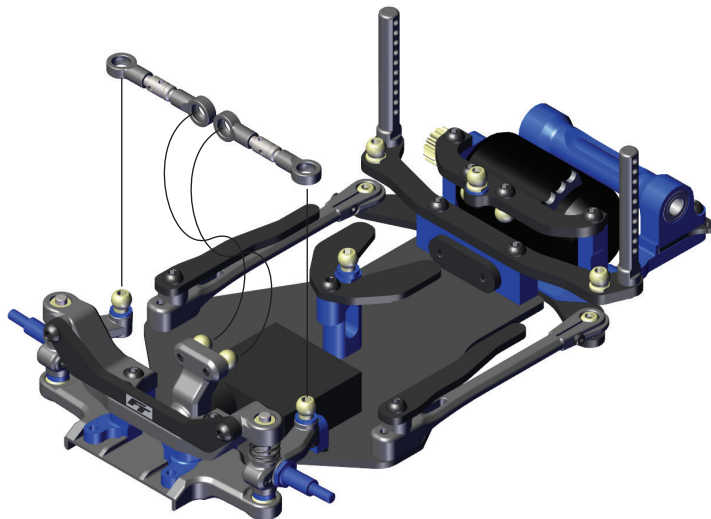
21640
Turnbuckle,
12mm



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



Note:
Notch indicates left hand
thread. Install notch on left
side of car.

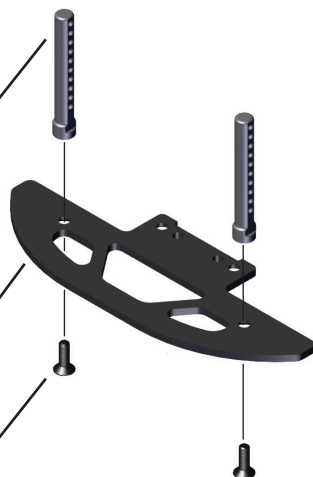


Bag 4 - Step 6

21645 x2
Body
Mount

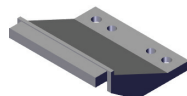
21645
Front
Bumper

21667 x2
2x4mm
FHCS

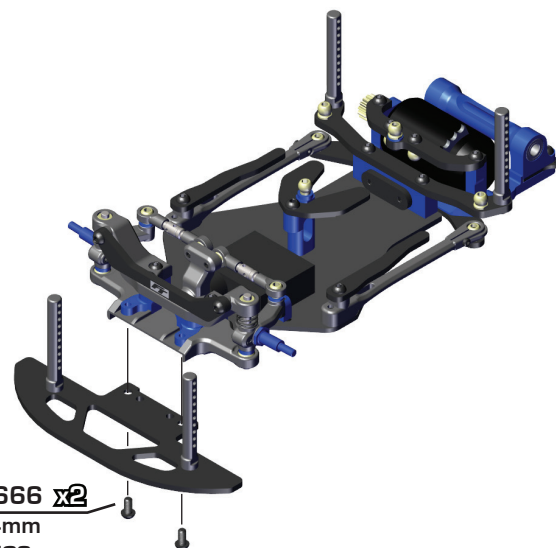


Note:
Do not install bumper and
body mounts if using a hard
body. Tab will be supplied
with body.

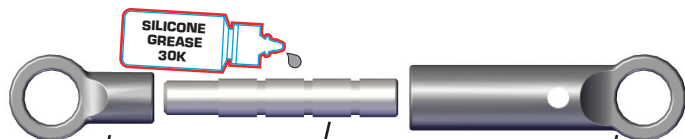
Hard Body Tab
* Not Included



21666 x2
2x4mm
BHCS



Bag 5 - Step 1



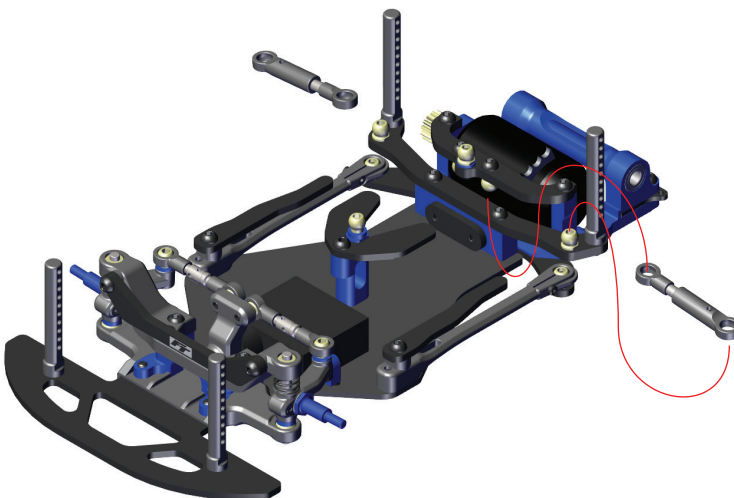
21640
Rod End

21640
Damper
Tube Shaft

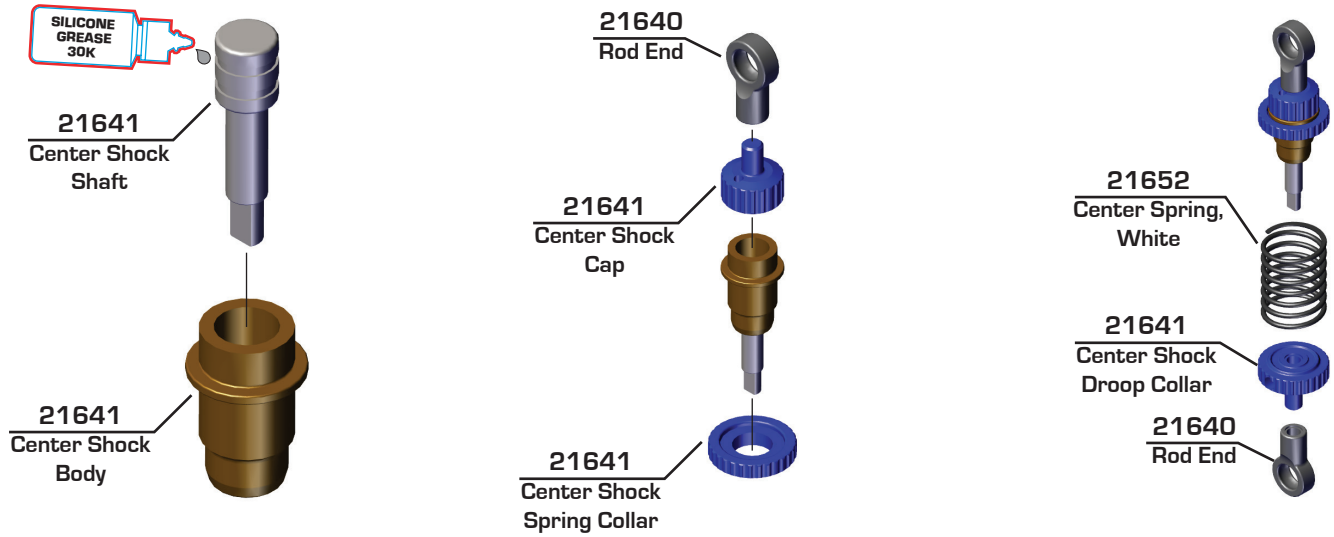
21640
Side Damper
Tube



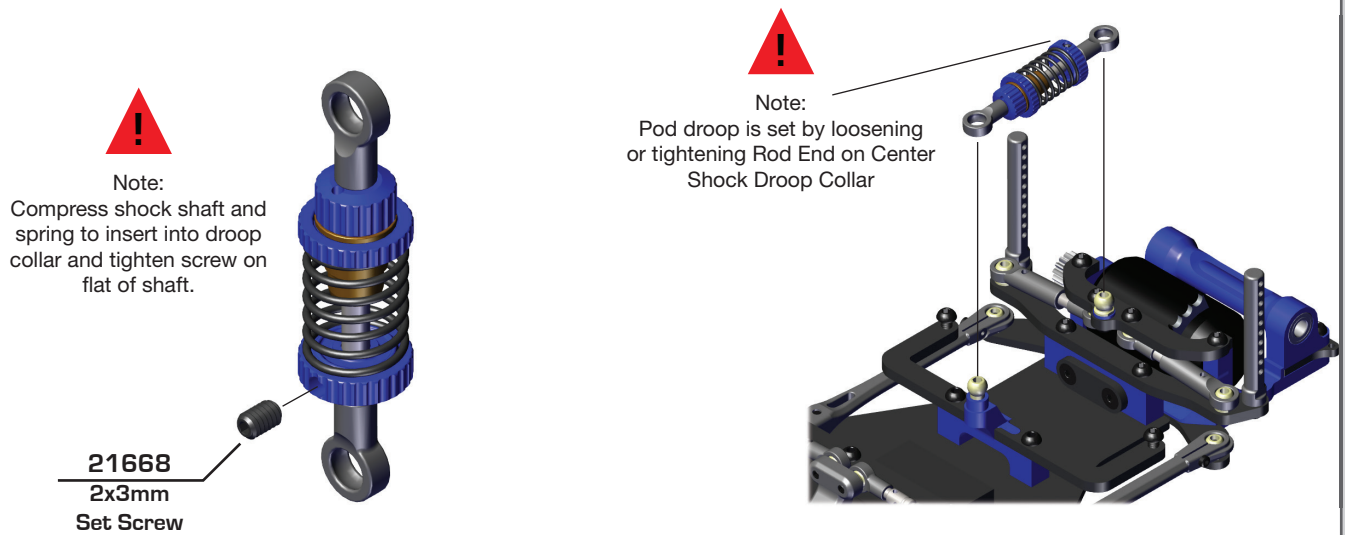
Note:
Pinch ballcups on pivot ball
with pliers lightly if tight.



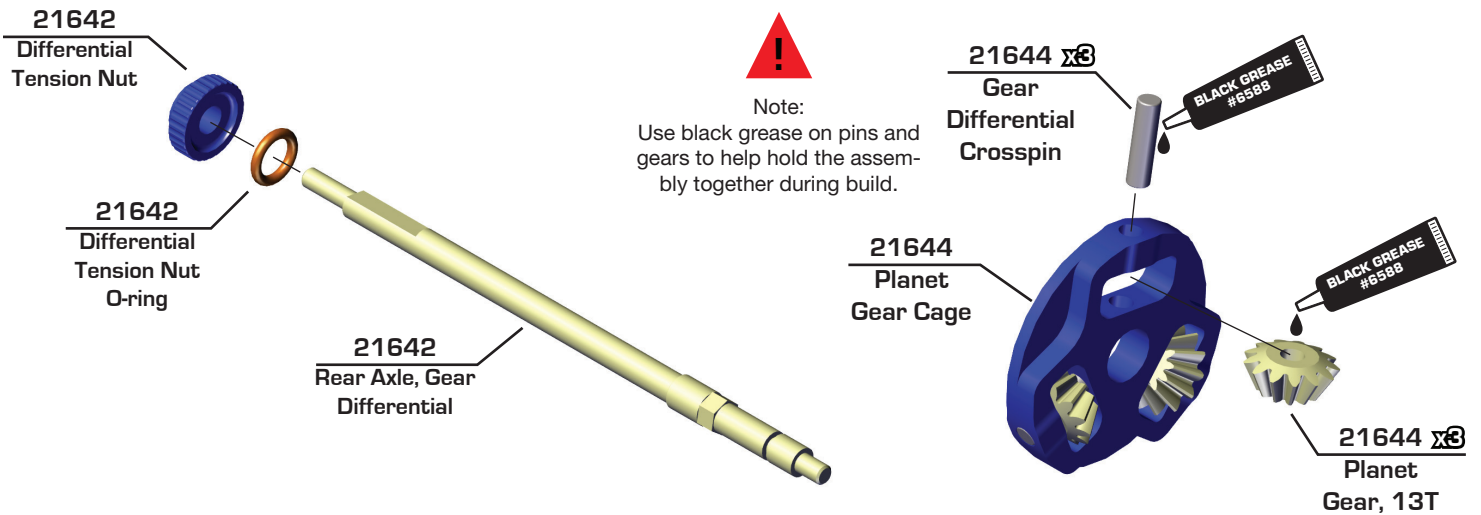
:: Bag 5 - Step 2



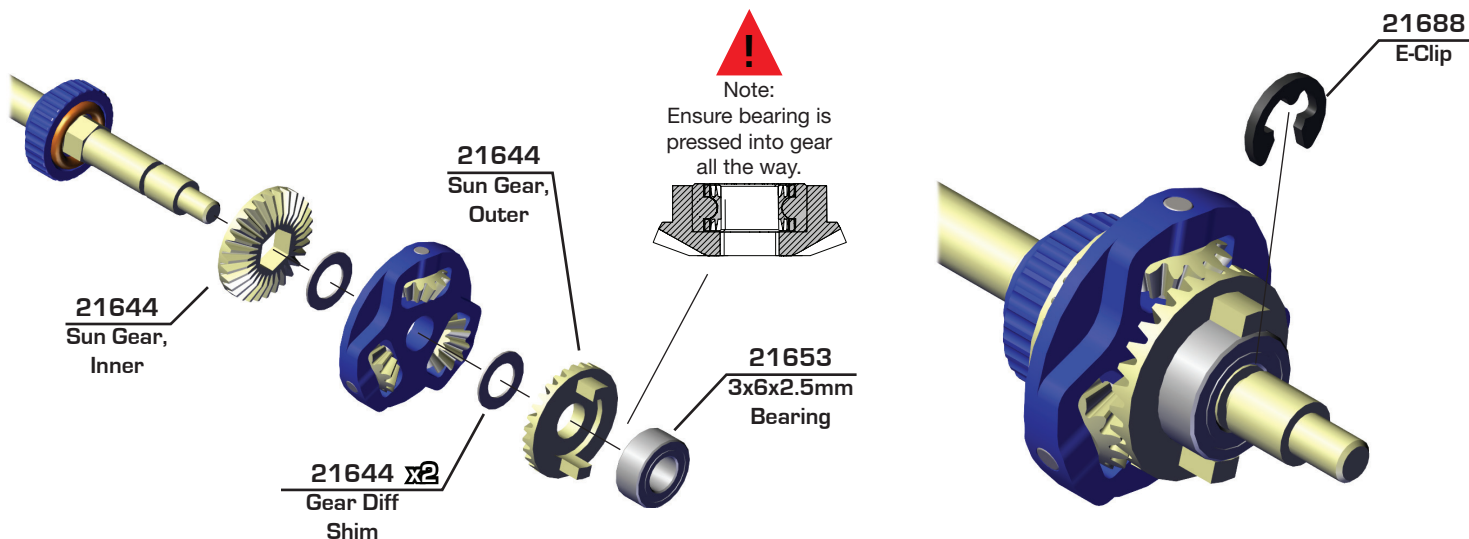
:: Bag 5 - Step 3



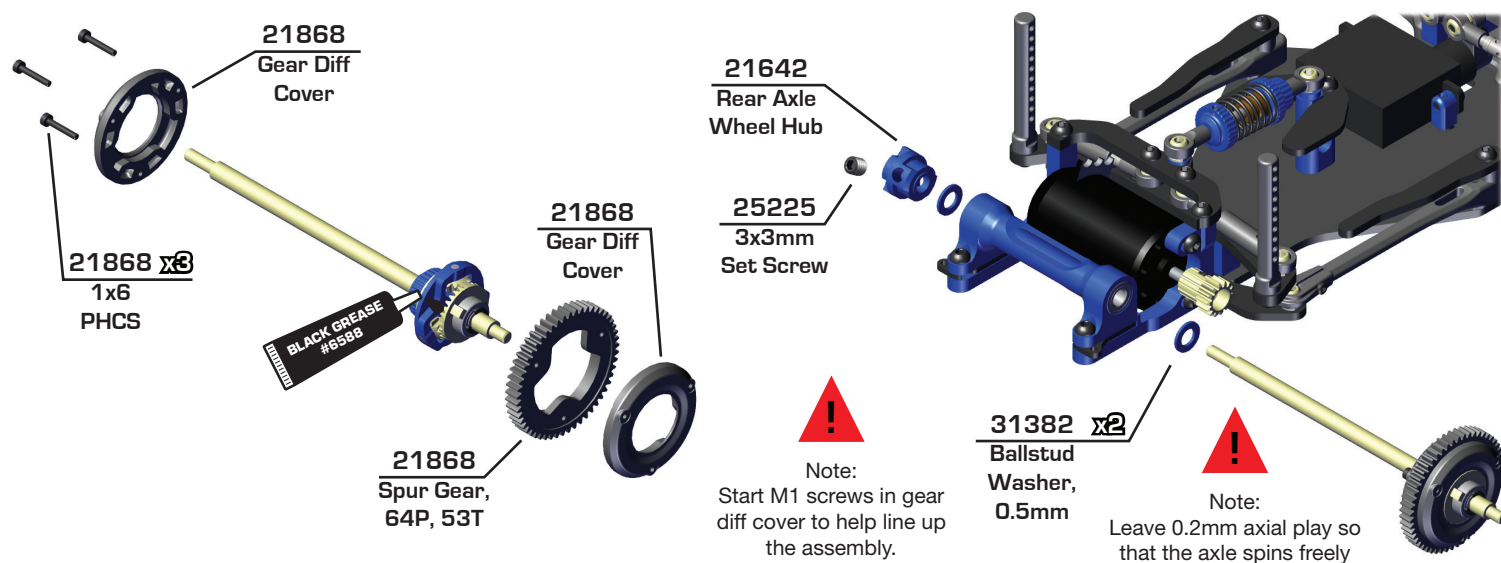
:: Bag 6 - Step 1



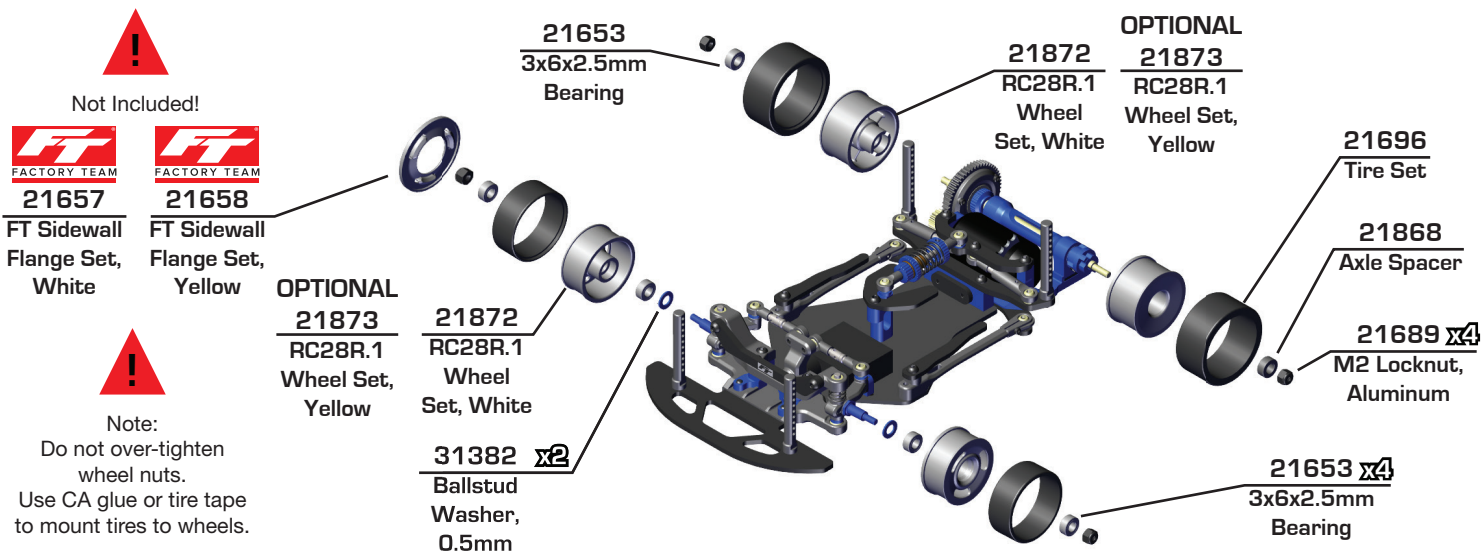
Bag 6 - Step 2



Bag 6 - Step 3



Bag 7 - Step 1

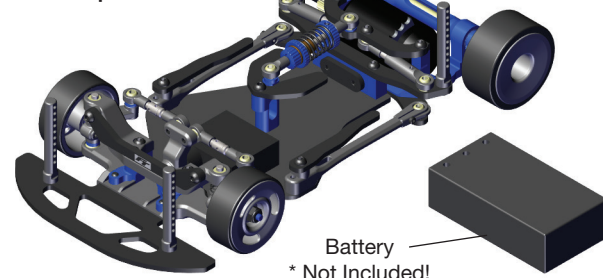


:: Bag 7 - Step 2

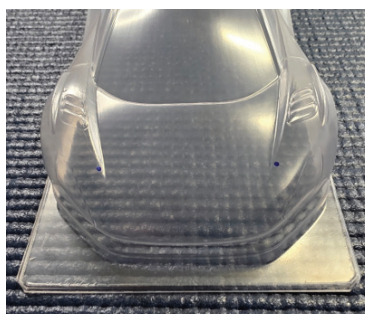
**Reedy
Blackbox
300R**

ESC and Receiver
*Not Included!

6727 x2
Servo Tape



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.



**Reedy
Stockstar
Battery**

:: 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.

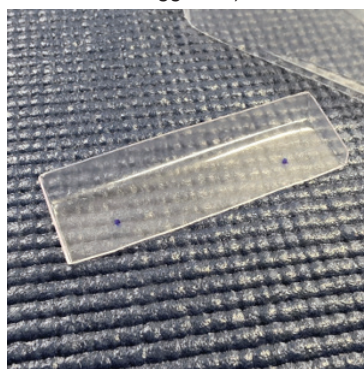
Paint mask and body decals included.
Trim wheel wells to clear wheel and tires as needed.



Wing Mounting:

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

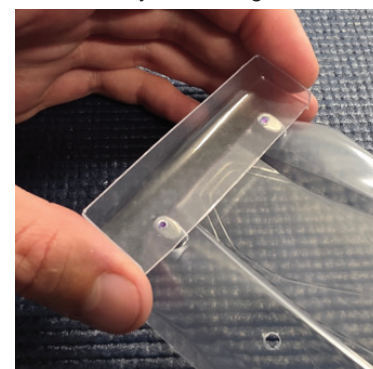
2. Mount the wing by reaming existing dimples (front set of dimples suggested).



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.

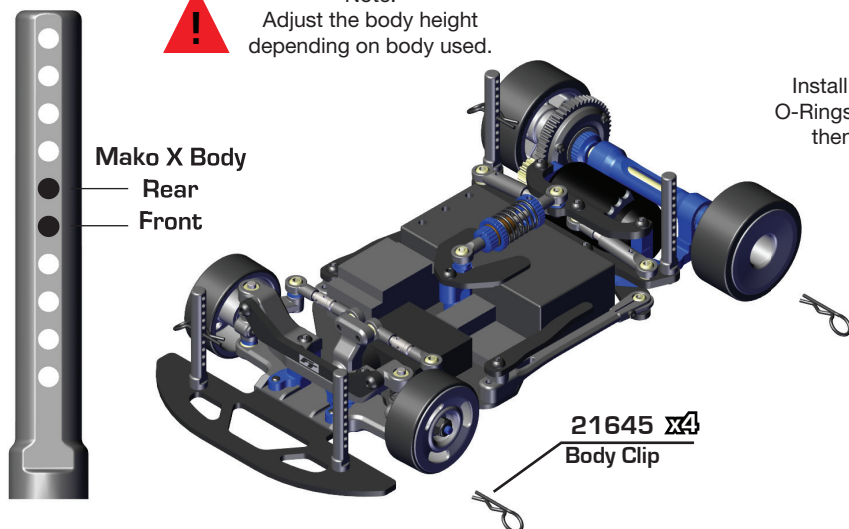


:: Bag 7 - Step 4



Note:
Adjust the body height
depending on body used.

Mako X Body
— Rear
— Front



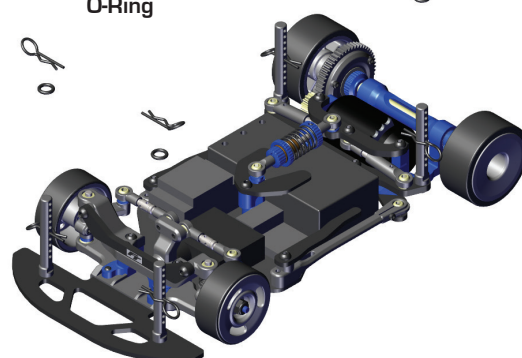
21645 x4
Body Clip



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 ☐

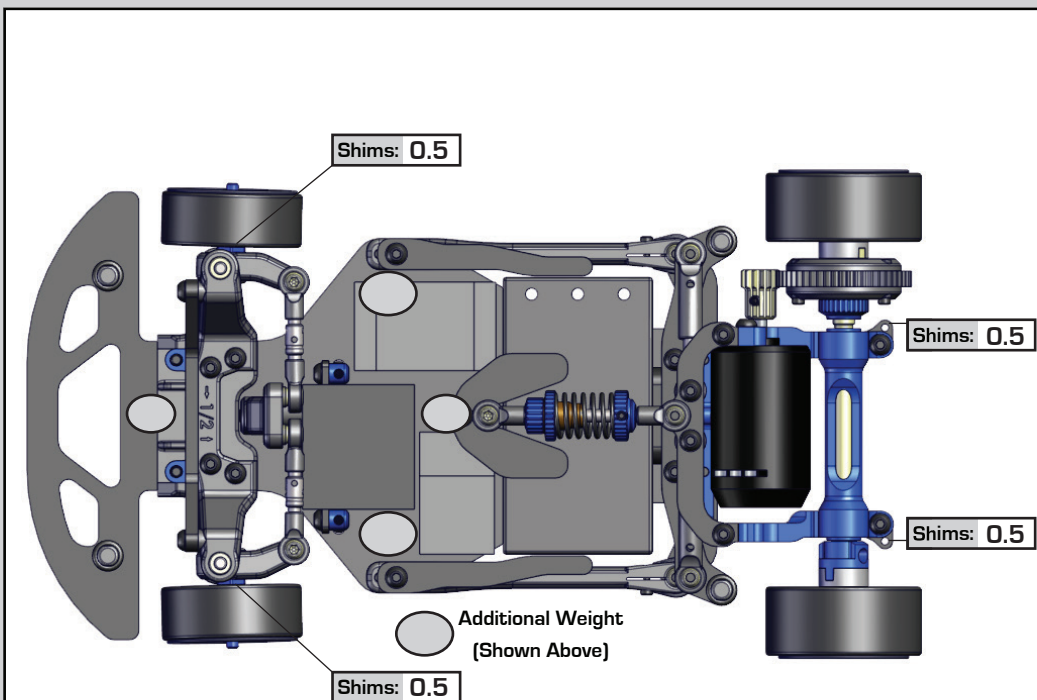
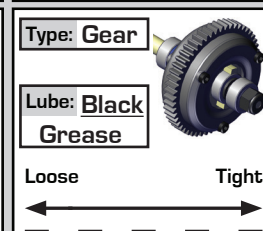
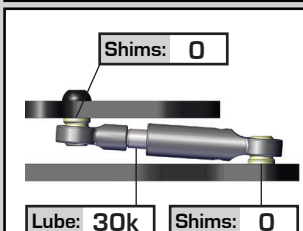
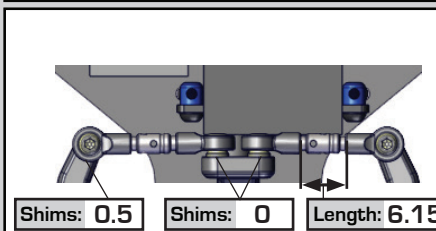
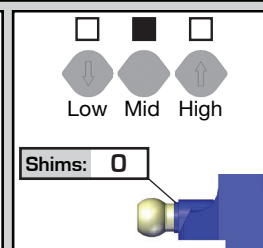
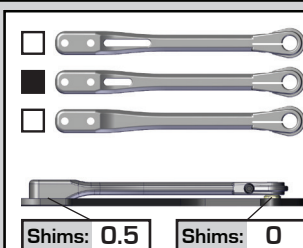
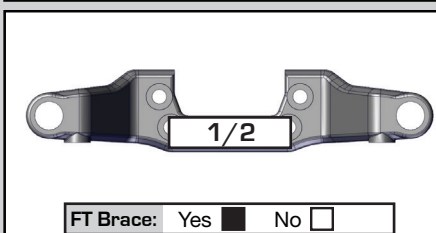
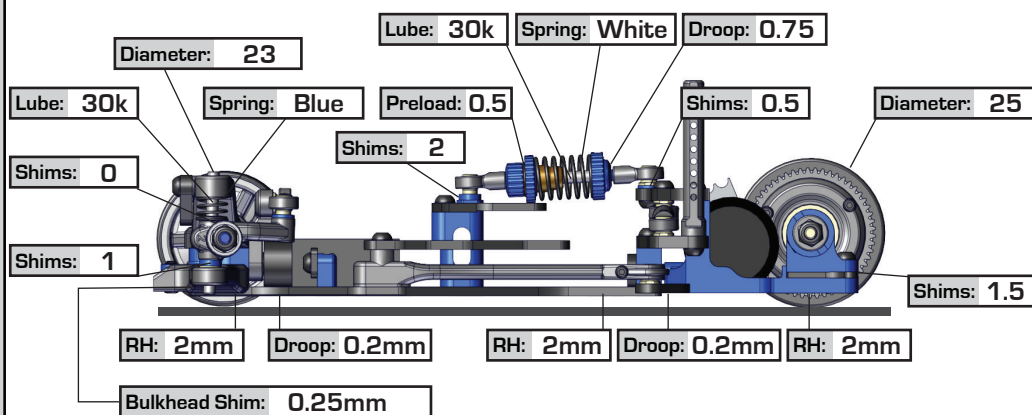
Front Wheel Flange Diameter: _____ None ☐

Rear Tires: _____

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

Rear Adhesive: CA Glue ☐ Tape ☐

Notes: _____



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 ☐

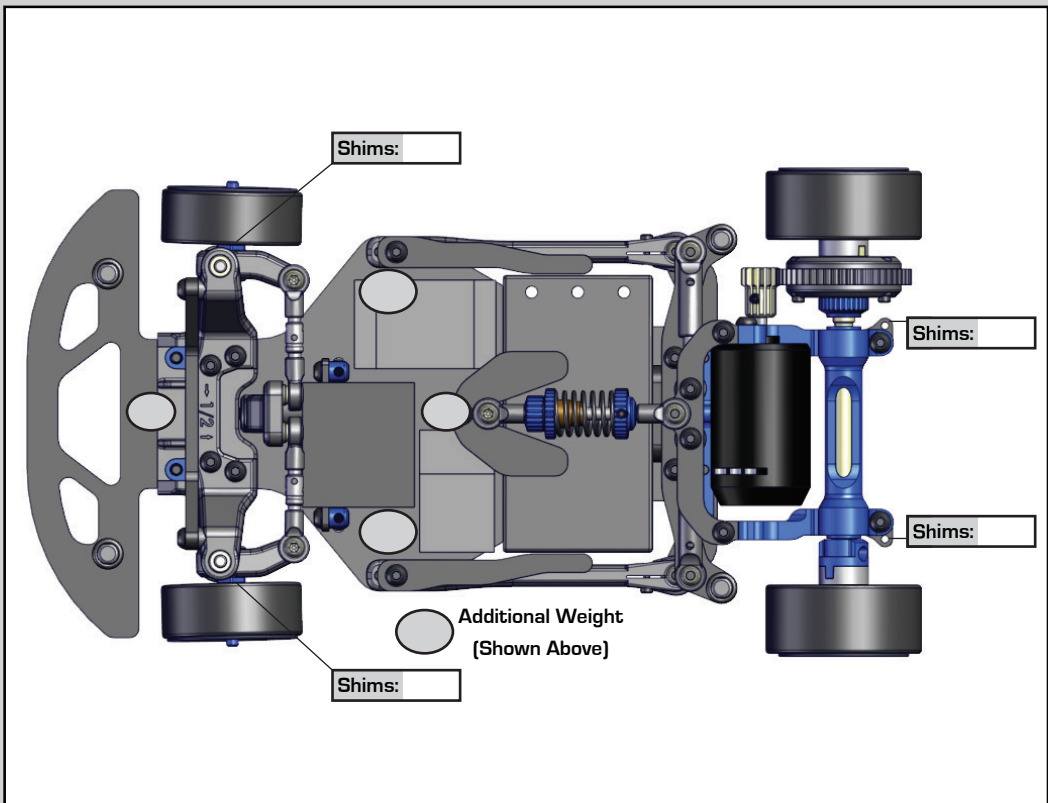
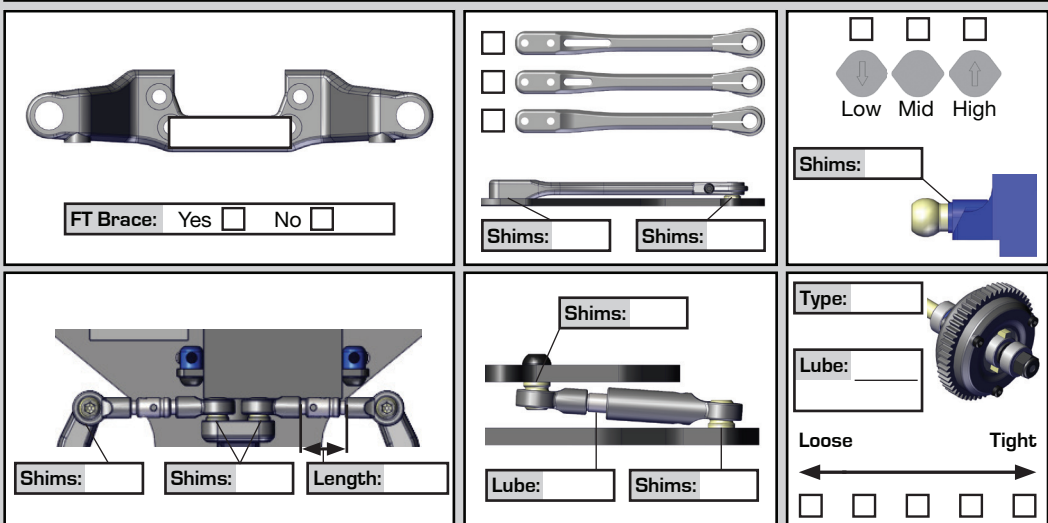
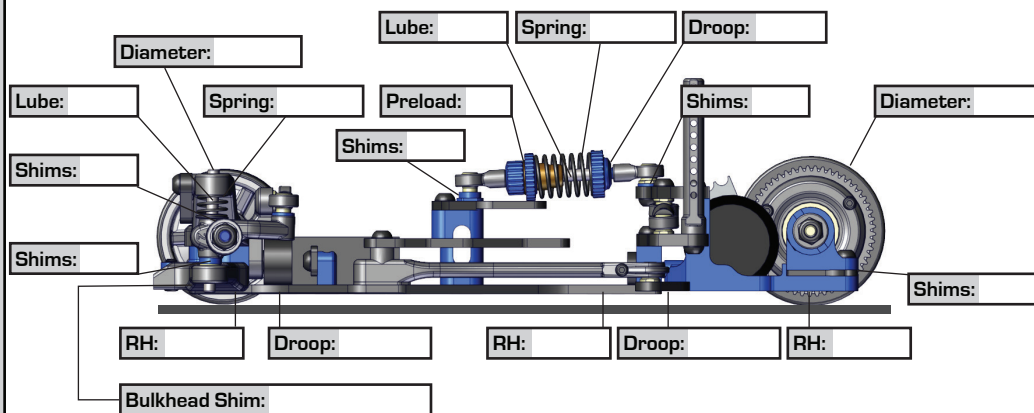
Front Wheel Flange Diameter: _____ None ☐

Rear Tires: _____

Rear Wheels: _____ Offset: _____

Rear Adhesive: CA Glue ☐ Tape ☐

Notes: _____





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