RC28R.1 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

#20194 RC28R.1 2WD Kit

WeAreAE 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 manauls.

:: 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
- 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

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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

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10.....Center Shock and Side Damper Build
Bag 5

11.....Gear Differential Build
Bag 6

12.....Wheels / Tires / Electronics / Body Build
Bag 7

14..... Setup Sheet “Kit Setup”

15..... Setup Sheet “Blank”

16..... Back Cover

:: Notes



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



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



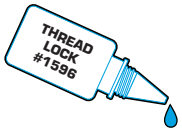
This symbol indicates the order within a step to assemble parts.



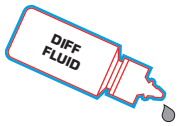
This symbol indicates there are optional FT parts available



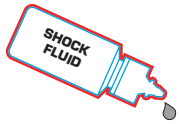
This symbol indicates a Racers Tip.



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



This symbol indicates where Diff Fluid should be applied.



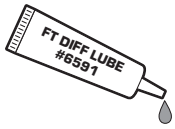
This symbol indicates where Shock Fluid should be applied.



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 FT Silicone Grease should be applied. *not included



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



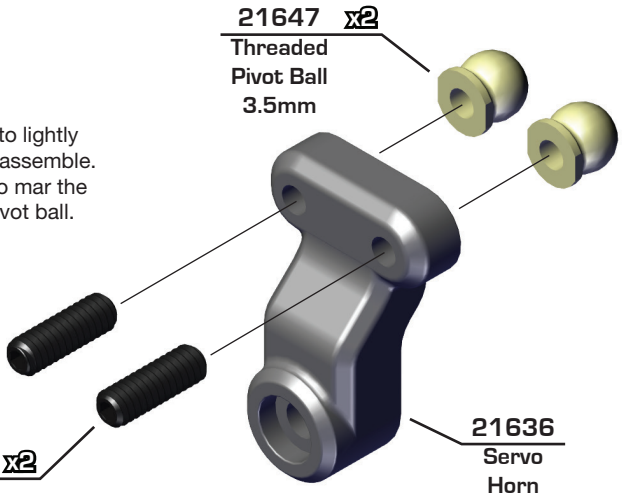
This symbol indicates where Black Grease should be applied.



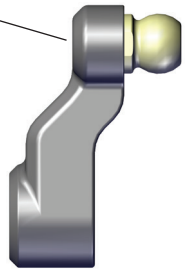
This symbol indicates where Green Slime can be applied. *not included

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.

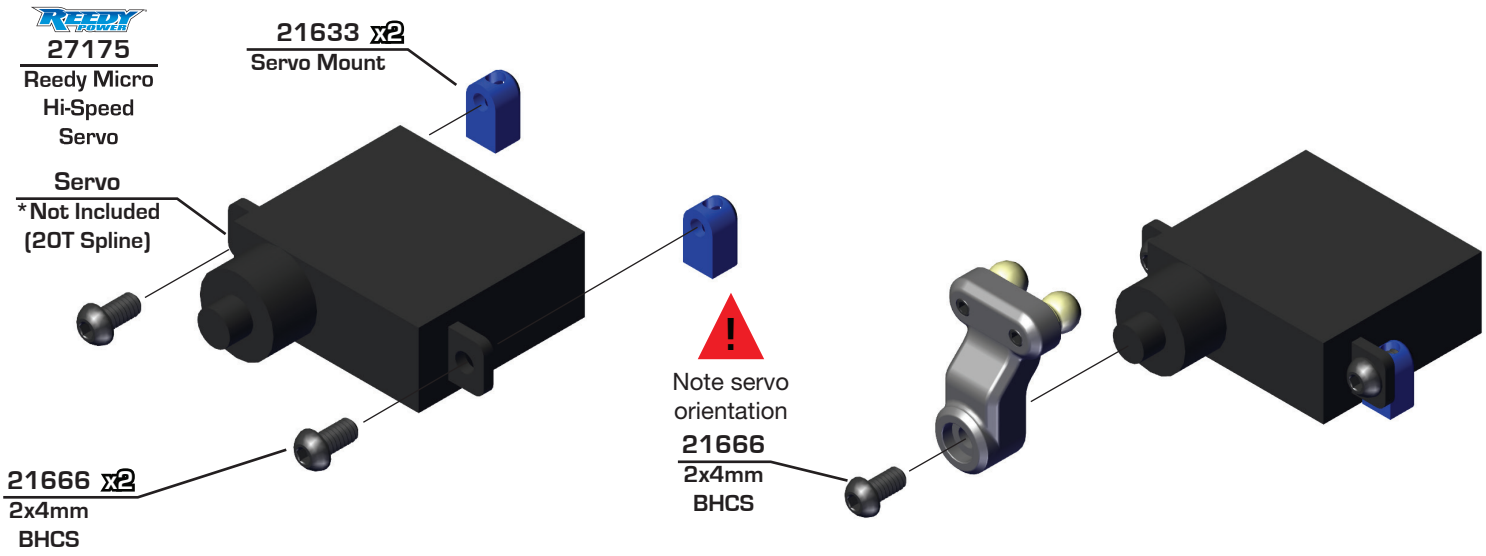


Note:
Install set screws flush with servo horn!



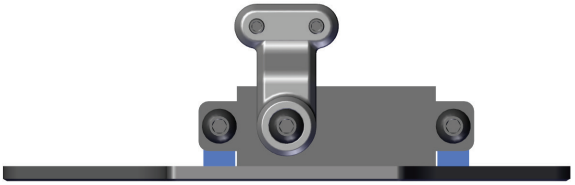
Note:
Servo horn deisgned for 20T 4mm diameter spline servo.

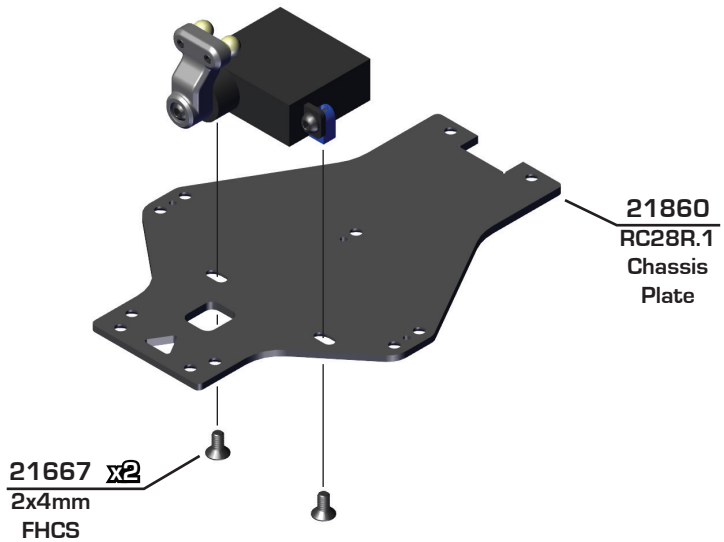
Bag 1 - Step 2



Bag 1 - Step 3

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



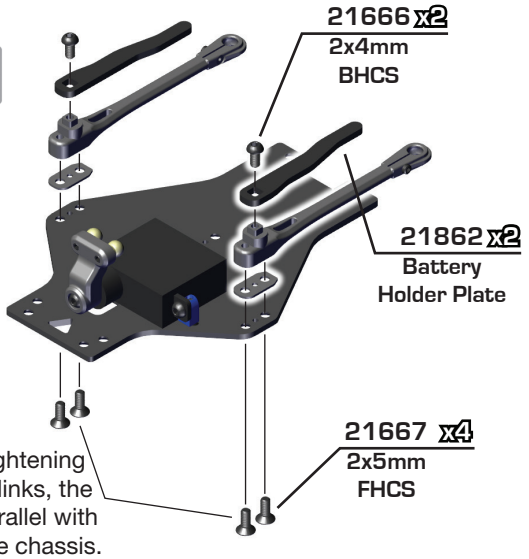


Bag 1 - Step 4



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



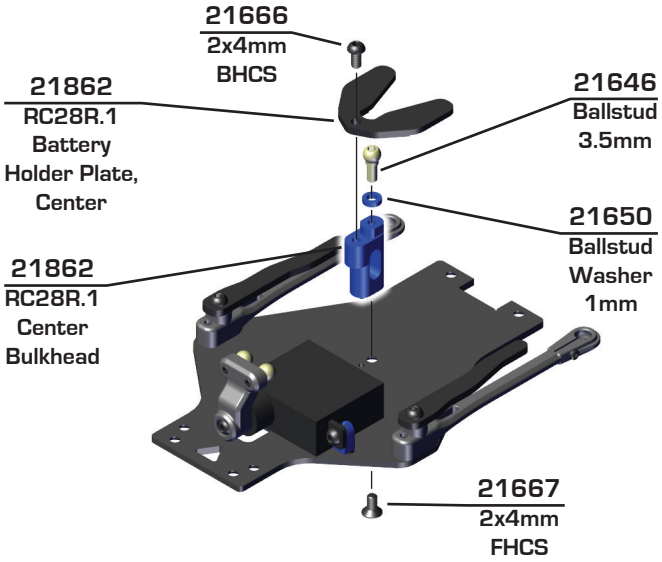


Note:
Leave loose. Use M1 screw to remove play from torsion link pivot ball fitment.



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

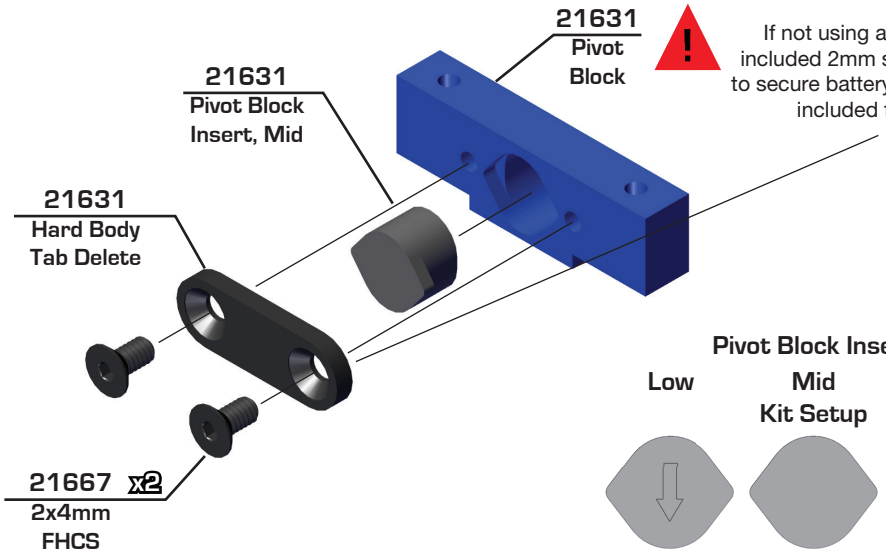
Bag 1 - Step 5



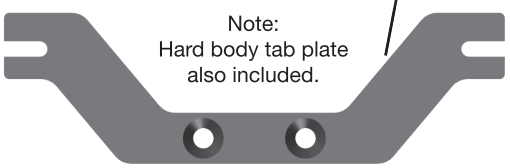


Note:
Battery Holder Plate, Center has a machined face for battery fitment. Use the machined side for taller batteries.

Bag 2 - Step 1



Note:
If not using a 24mm width battery, included 2mm spacers may be needed to secure battery. 6mm and 8mm screws included for using spacers.



Note:
Hard body tab plate also included.

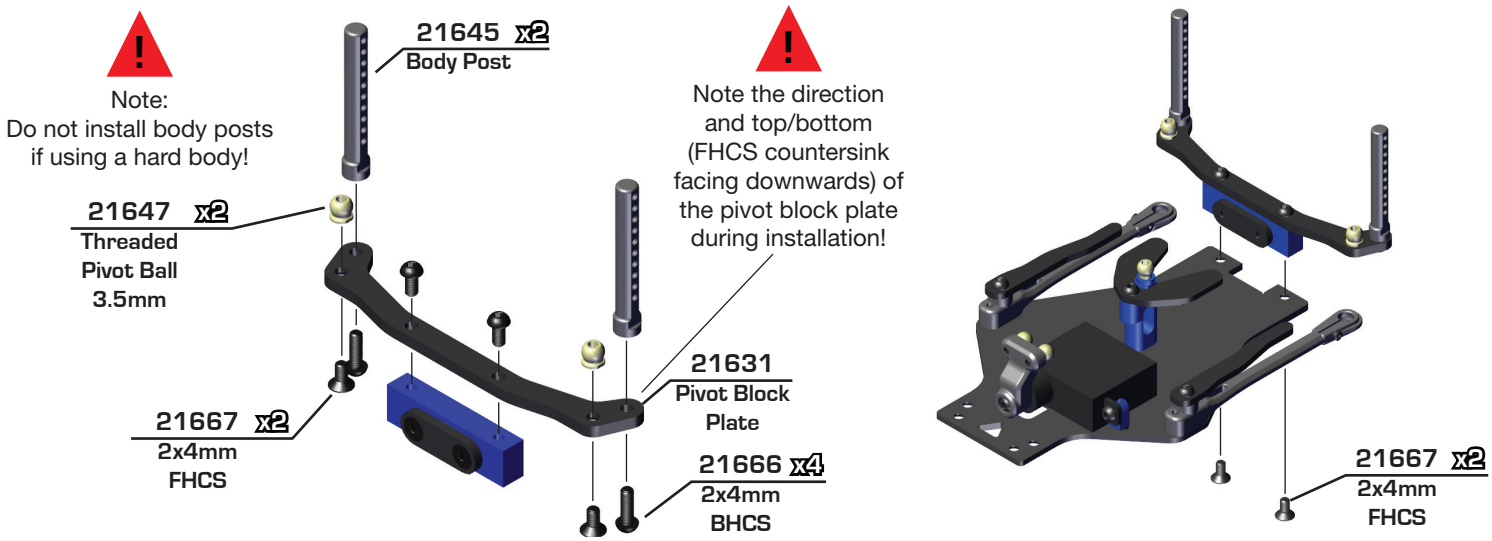
Pivot Block Insert

Low Mid High

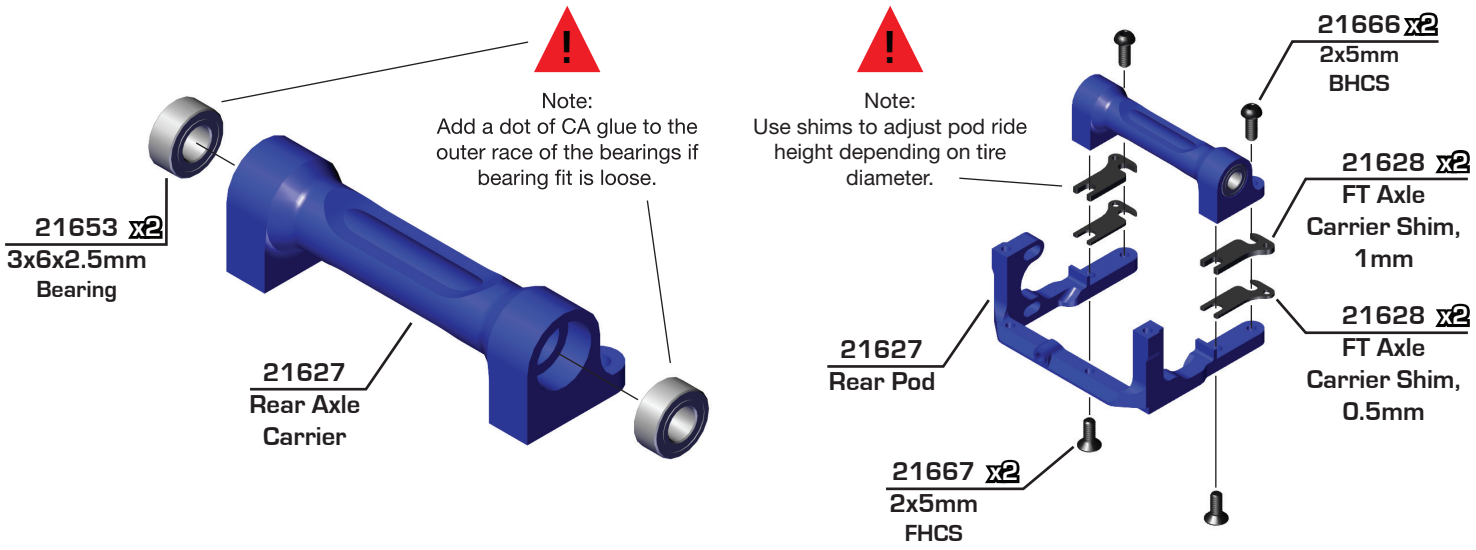
Kit Setup

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

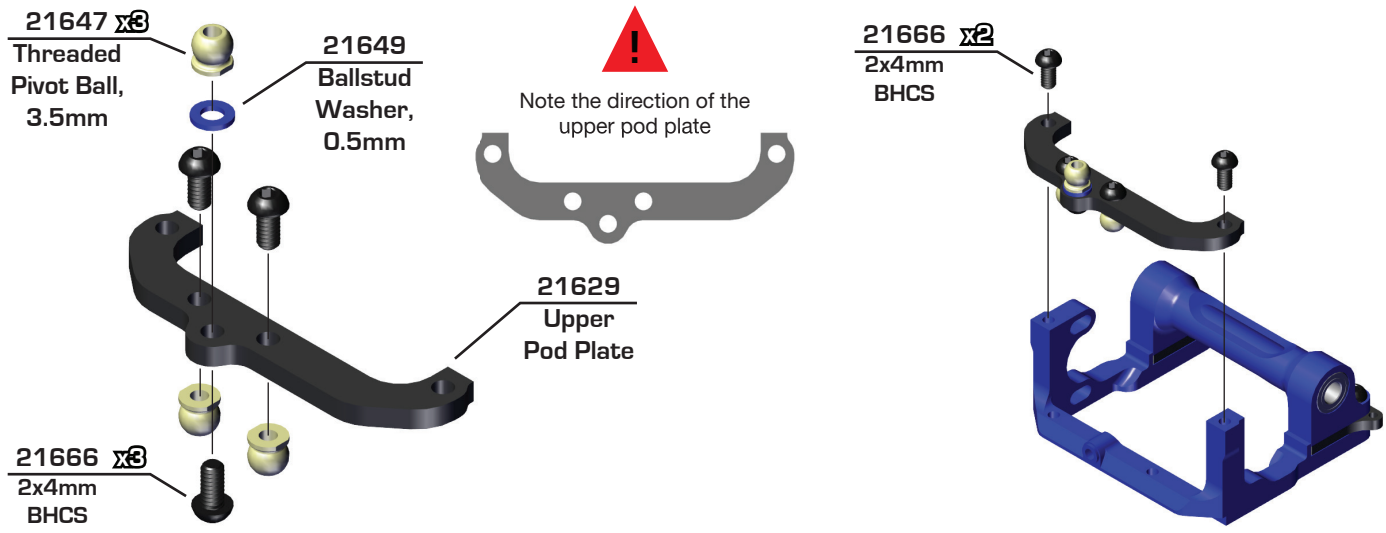
Bag 2 - Step 2



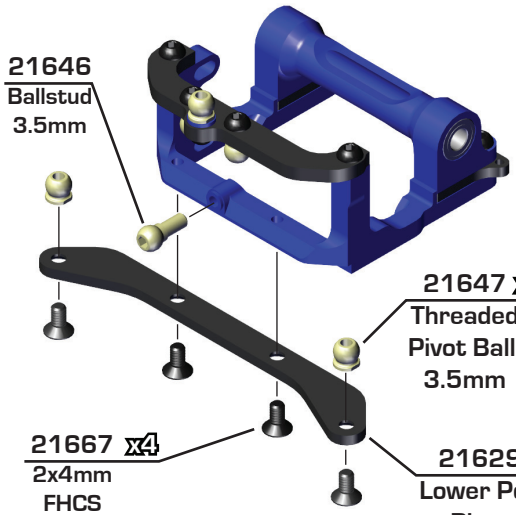
Bag 3 - Step 1



Bag 3 - Step 2

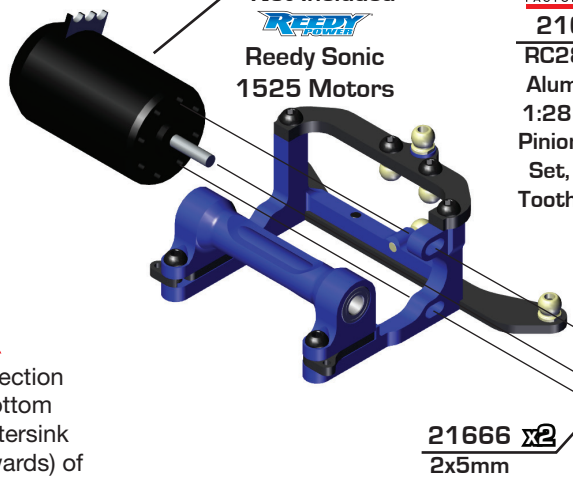


Bag 3 - Step 3



21630
RC28R FT
Lower Pod
Plate, Steel

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



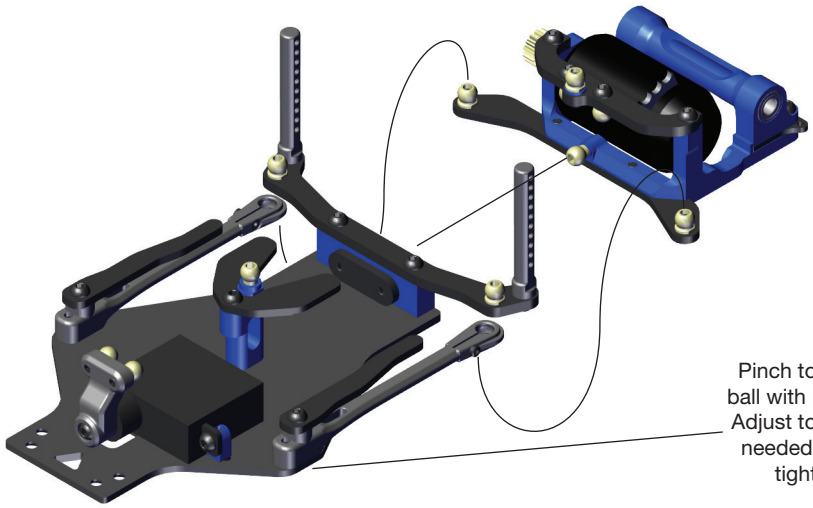
21690
RC28R FT
Aluminum
1:28 Scale
Pinion Gear
Set, 9-11
Tooth - 64p

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

64P Pinion
and Set Screw
*Not Included

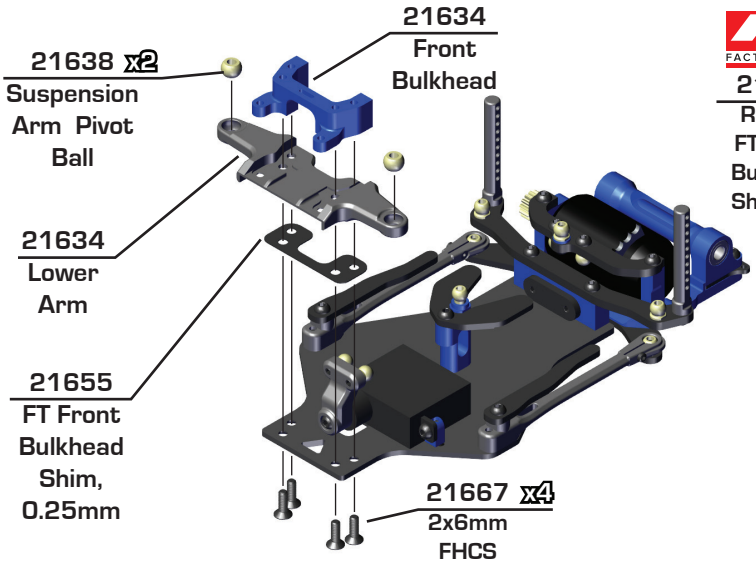
21666 x2
2x5mm
BHCS

Bag 3 - Step 4

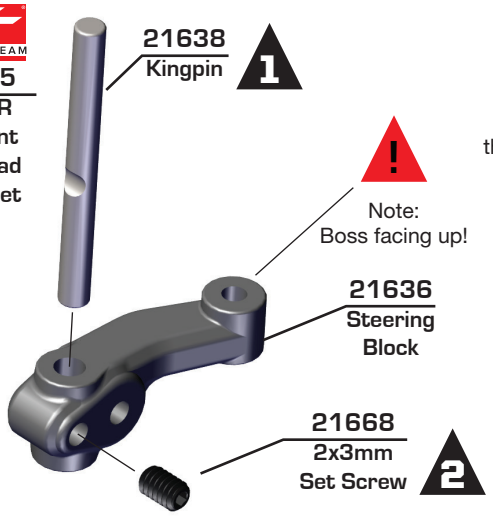


Note:
Pinch torsion link on pivot ball with pliers lightly if tight. Adjust torsion bar tweak as needed by loosening and tightening screws.

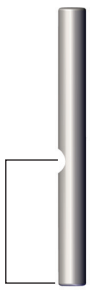
Bag 4 - Step 1



21655
RC28R
FT Front
Bulkhead
Shim Set



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



Build x2 (right and left side)

Bag 4 - Step 2

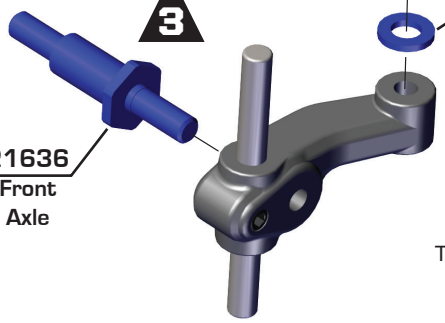
21637
RC28R FT Adjustable Front Axles, Titanium

21646
Ballstud 3.5mm

21649
Ballstud Washer, 0.5mm

21636
Front Axle

3



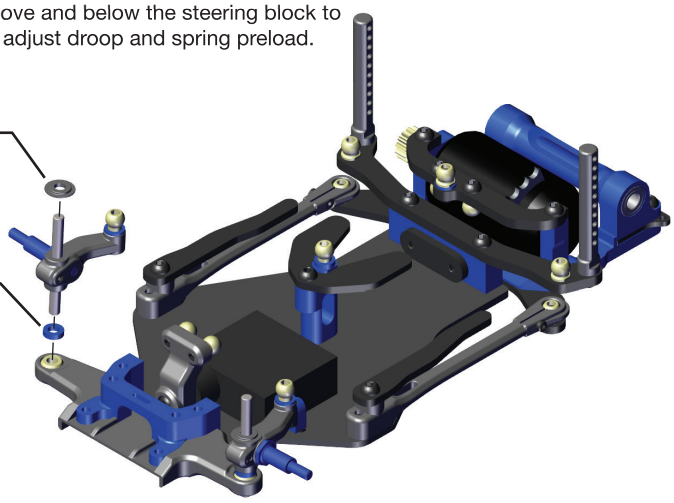
Take care to thread the axle into the steering block straight.

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

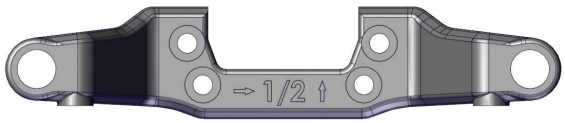
21650
Ballstud Washer, 1mm



Install x2 (right and left side)

Bag 4 - Step 3

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

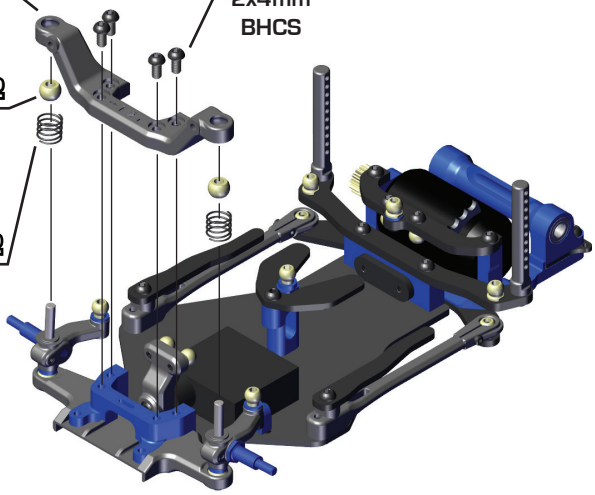


21634
Upper Arm, 2/2

21666 x4
2x4mm BHCS

21638 x2
Suspension Arm Pivot Ball

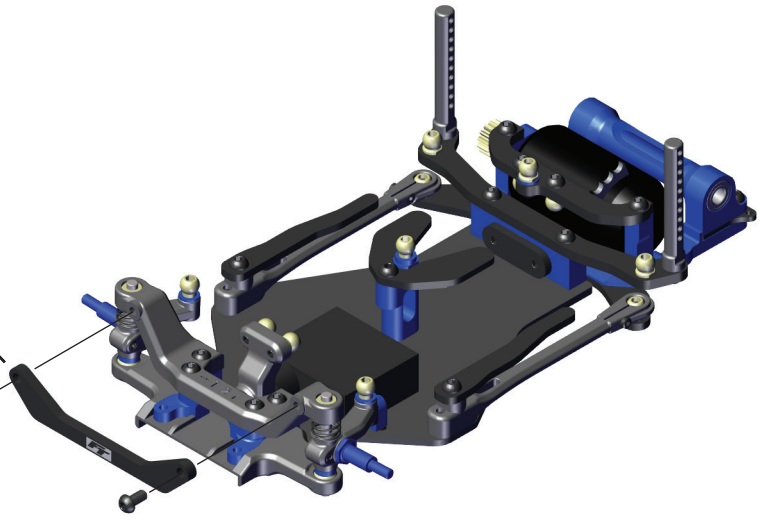
21651 x2
Front Spring, Blue



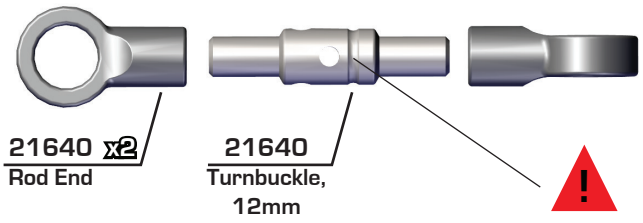
Bag 4 - Step 4

21635
FT RC28R Upper Arm Brace

21666 x2
2x4mm BHCS

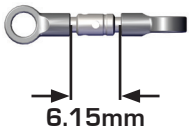


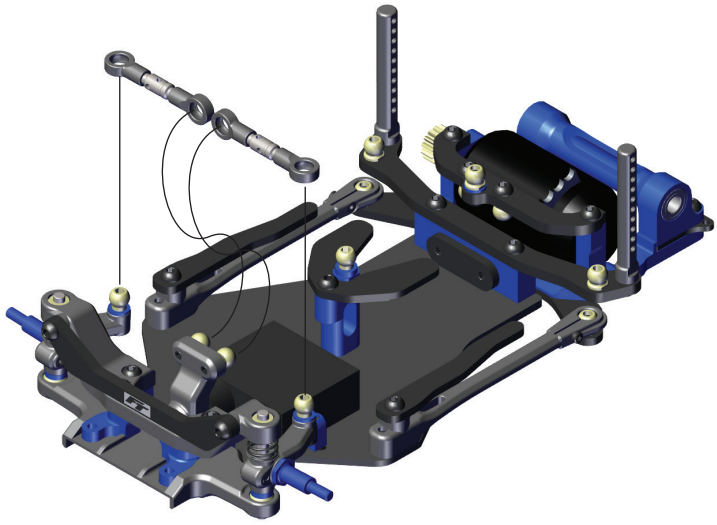
Bag 4 - Step 5



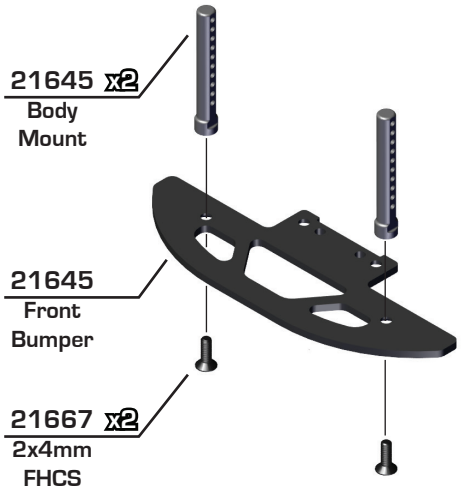
Note:
Notch indicates left hand thread. Install notch on left side of car.

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



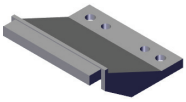


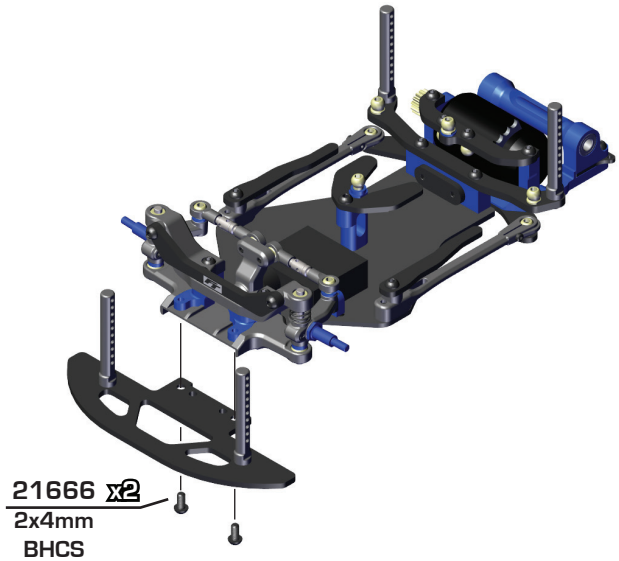
Bag 4 - Step 6



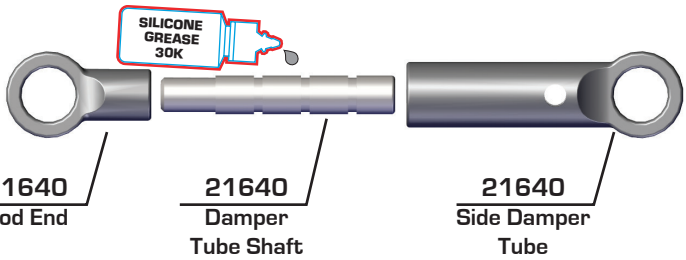
Note:
Do not install bumper and body mounts if using a hard body. Tab will be supplied with body.

Hard Body Tab
*** Not Included**

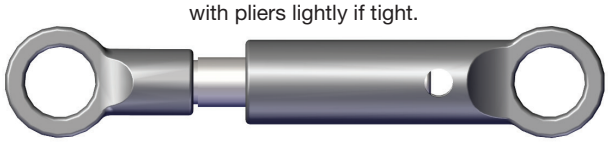


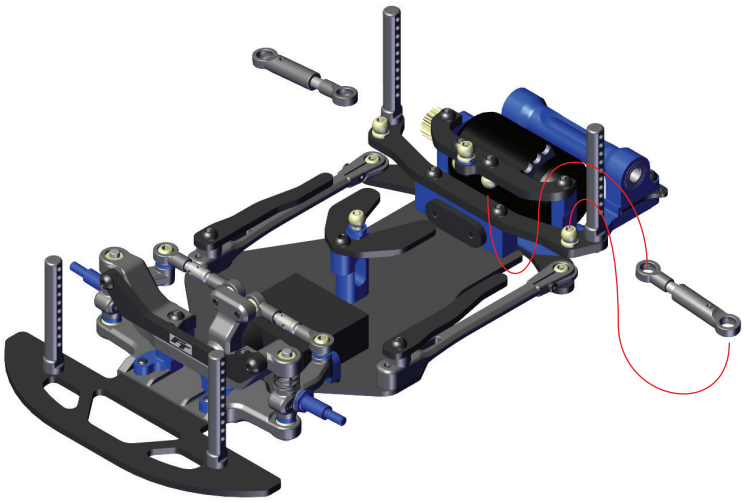


Bag 5 - Step 1

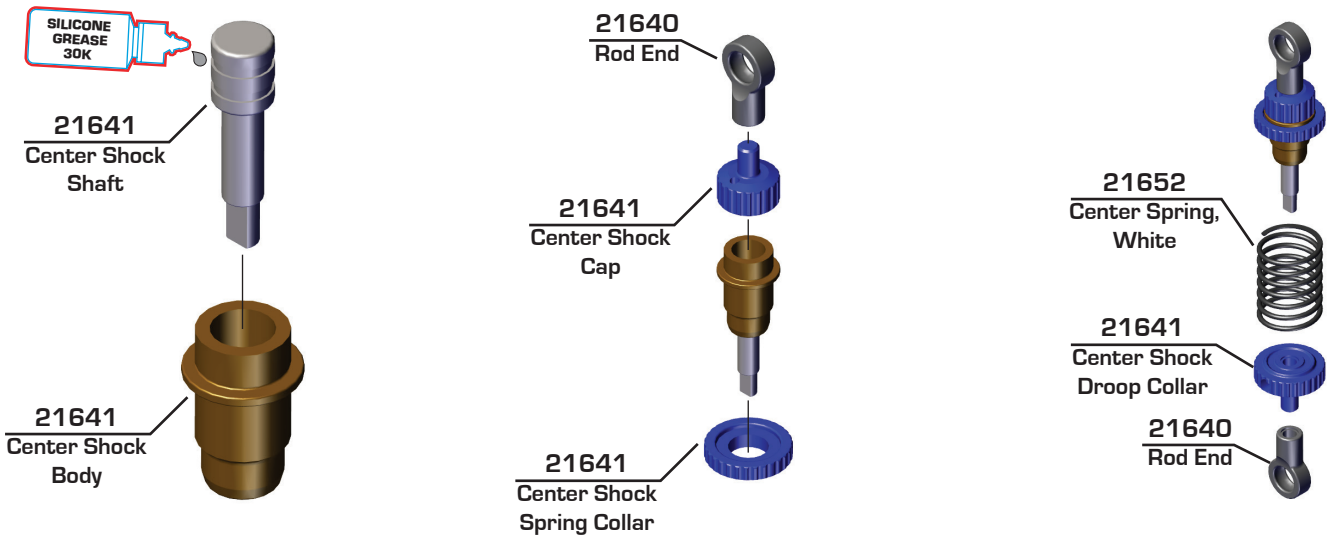


Note:
Pinch ballcups on pivot ball with pliers lightly if tight.

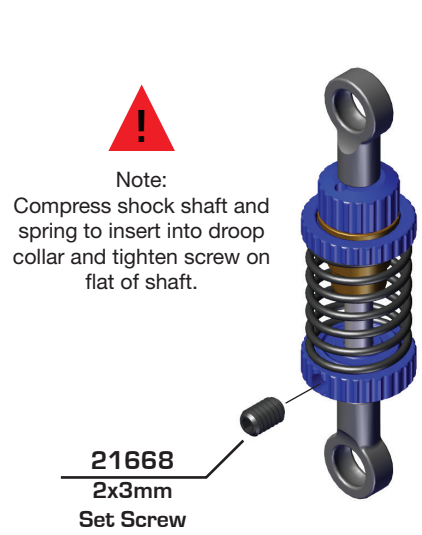


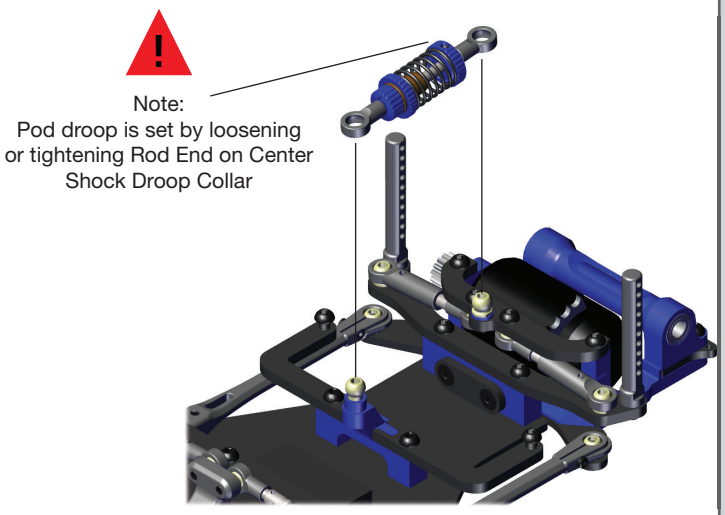


Bag 5 - Step 2

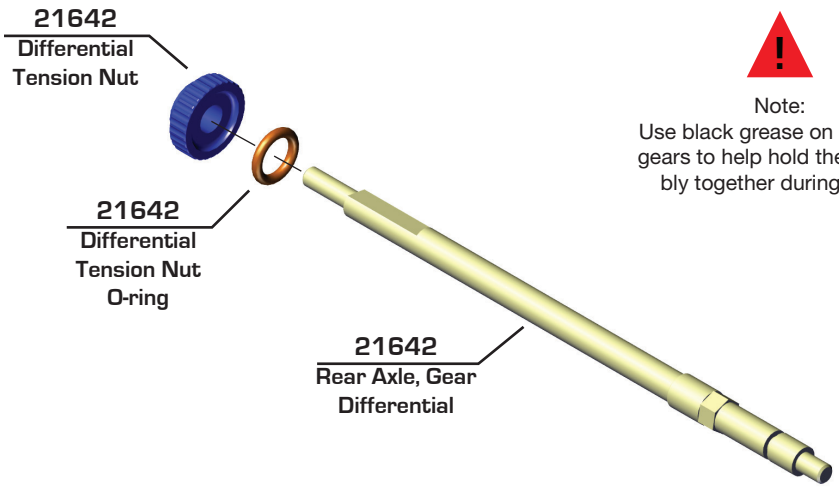


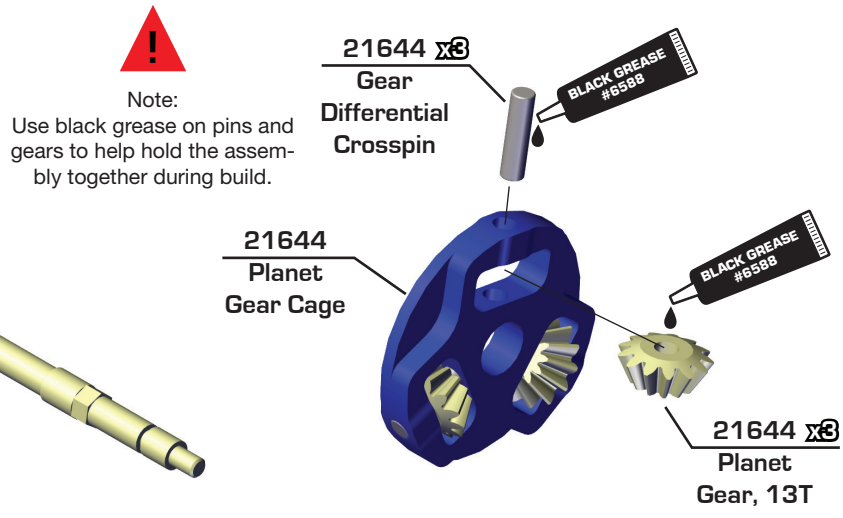
Bag 5 - Step 3



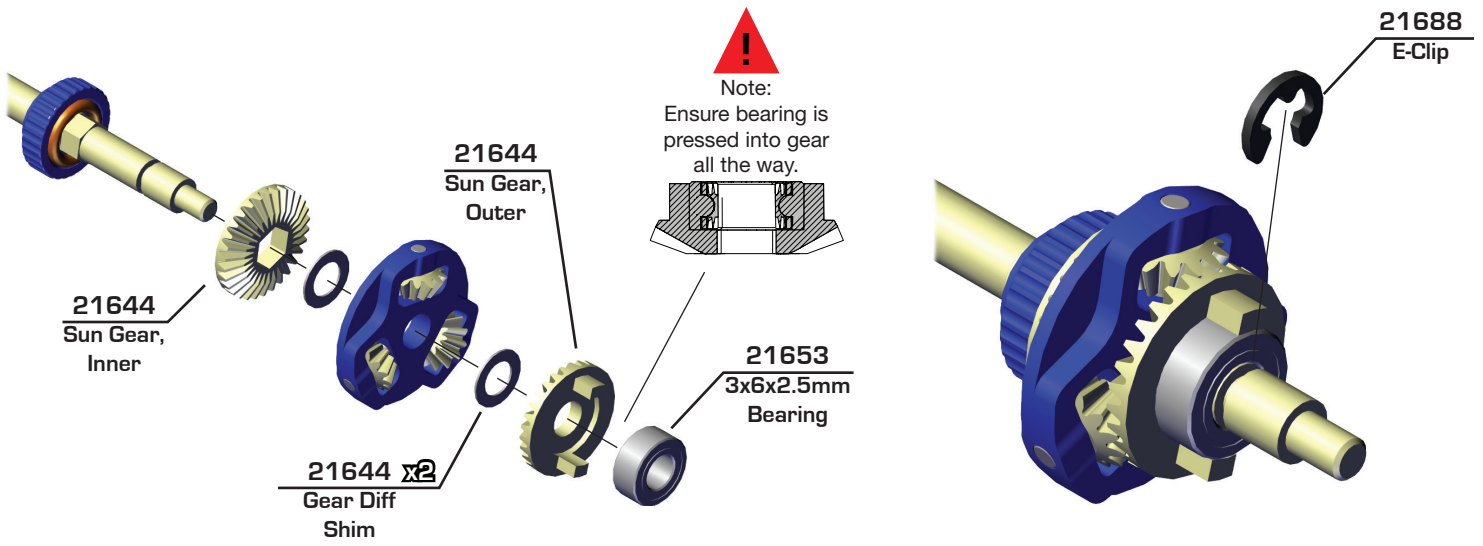


Bag 6 - Step 1

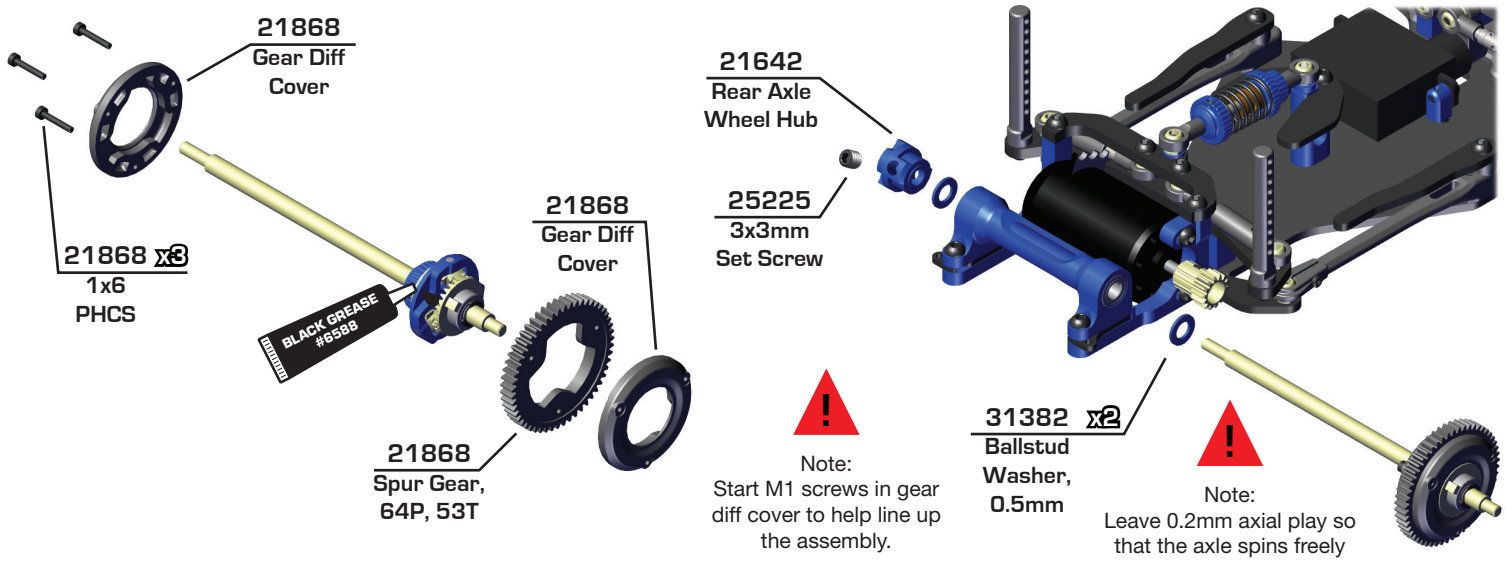




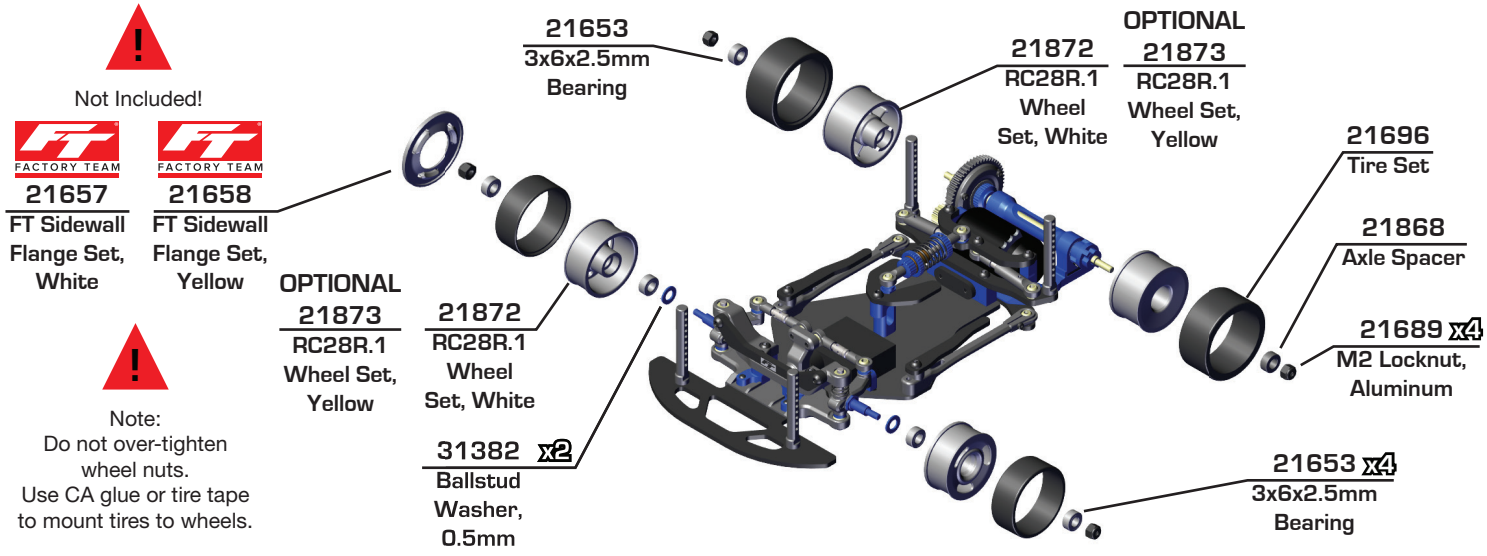
Bag 6 - Step 2



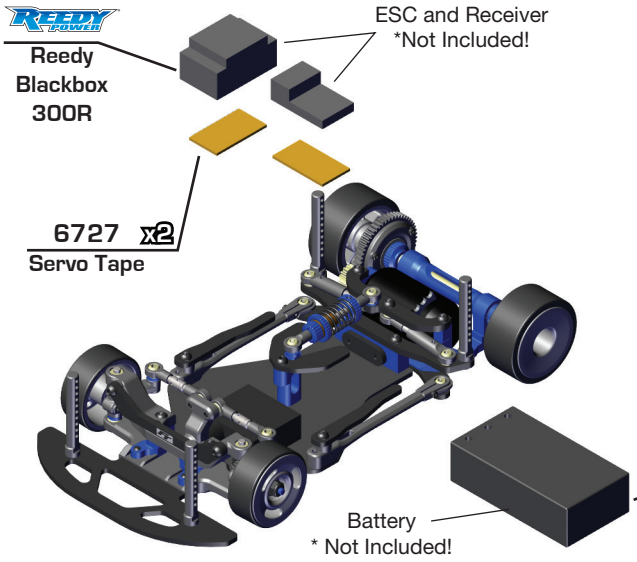
Bag 6 - Step 3



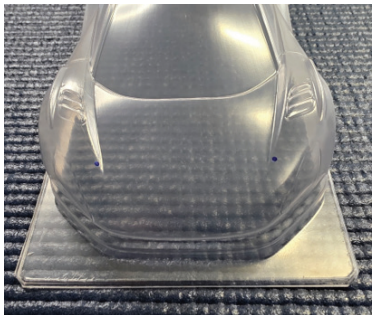
Bag 7 - Step 1



Bag 7 - Step 2



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.

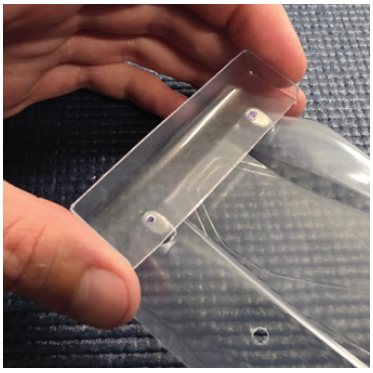
Paint mask and body decals included.
Trim wheel wells to clear wheel and tires as needed.



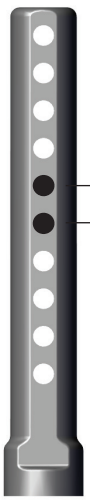
Wing Mounting:
1. Cut out the wing along the outer lines. Trim wing down as desired for tuning.
2. Mount the wing by reaming existing dimples (front set of dimples suggested).



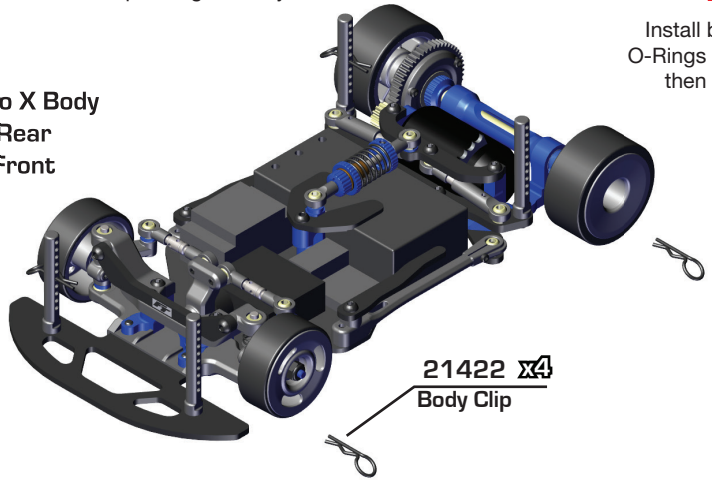
3. Use reamed holes on the wing as a guide for reaming mounting holes on the body. Take care to center the wing side to side and keep it square.
4. Use included mounting hardware.
*Note that both the wing and body have overspray masking which should be removed before final assembly and adding decals.



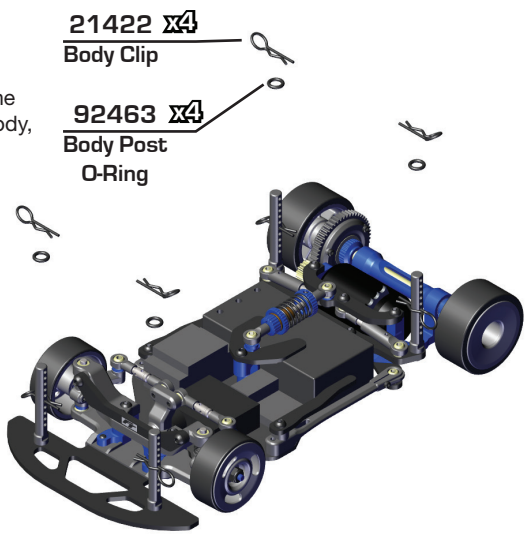
Bag 7 - Step 4



Note:
Adjust the body height depending on body used.



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



RC28 TEAM KIT

Driver: Kit Setup Event:

Date: Track:

Qualify: TQ: ☐ Main: Finish: Best Lap Time:

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 ☐

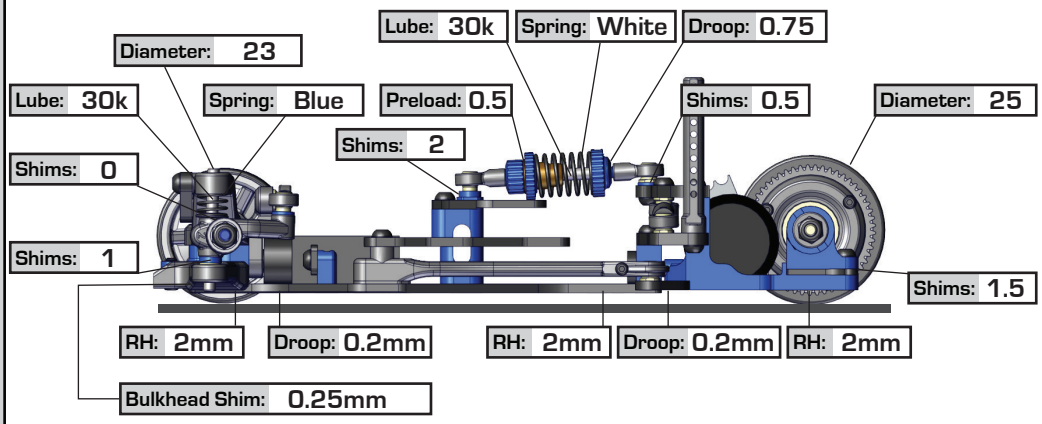
Front Wheel Flange Diameter: None ☐

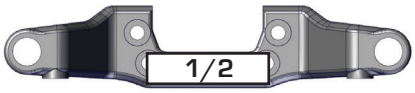
Rear Tires:

Rear Wheels: Offset: +3

Rear Adhesive: CA Glue ☐ Tape ☐

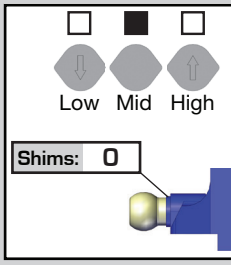
Notes:

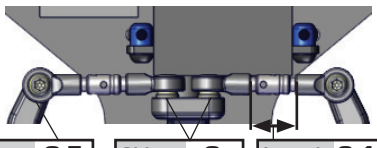


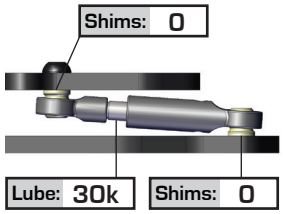


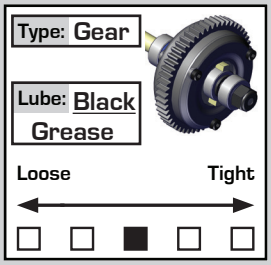
FT Brace: Yes ■ No ☐

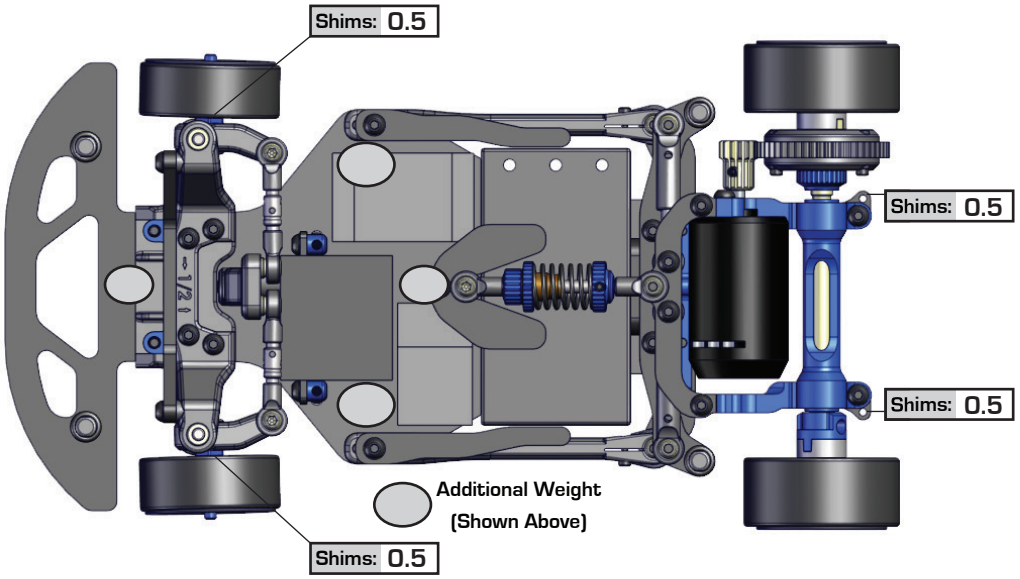












:: For more setups, visit RC10.com and click on "Setup Sheets"

RC28 TEAM KIT

Driver: _____ Event: _____

Date: _____ Track: _____

Qualify: _____ TQ: ☐ Main: _____ Finish: _____ Best Lap Time: _____

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 ☐

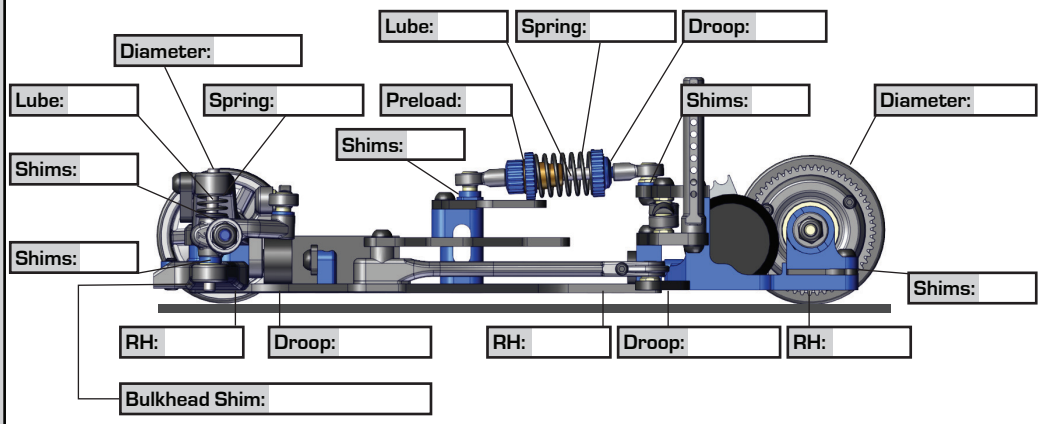
Front Wheel Flange Diameter: None ☐

Rear Tires:

Rear Wheels: Offset:

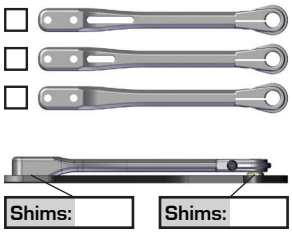
Rear Adhesive: CA Glue ☐ Tape ☐

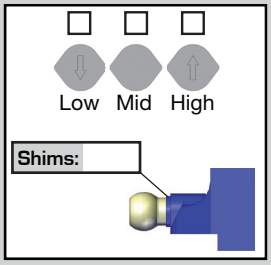
Notes: _____

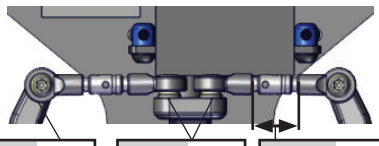


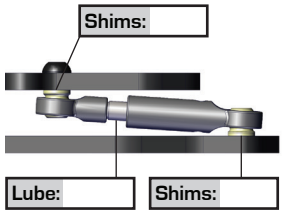


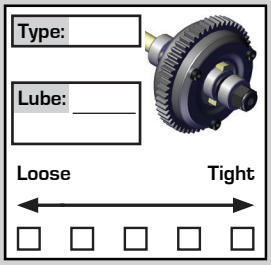
FT Brace: Yes ☐ No ☐

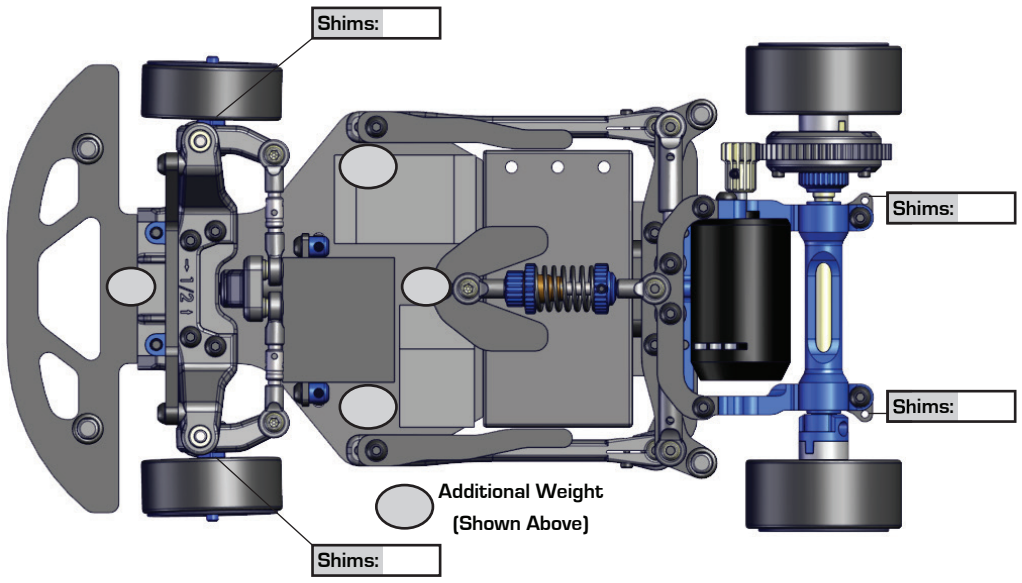












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