RC28F TEAM KIT

1:28 Scale 2WD Electric
On Road Competition Kit



TEAM ASSOCIATED

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

#20195 RC28F 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.

:: RC28F Features

- Machined aluminum chassis and center bulkhead design allows for 24mm wide battery packs and ample space for mounting electronics while also reducing overall weight
- Fixed arm style front end with optional molded upper arms to adjust caster and camber
- Front bulkhead design allows for quick upper arm changes with consistent fitment and alignment
- Formula style polycarbonate body and molded plastic wings 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
- Team carbon fiber shims
- Gear differential included but can fit other aftermarket options currently available
- V2 White wheels included that fit optional front wheel flanges to tune steering feel
- Team Associated's quality, distribution, support, and customer service

:: Additional

Your new RC28F 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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Since 1984

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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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Bag 2

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Bag 3

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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.



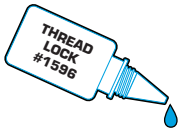
This symbol indicates the order within a step to assemble parts.



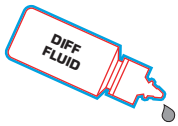
This symbol indicates there are optional FT parts available



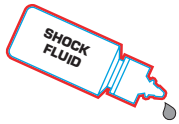
This symbol indicates a Racers Tip.



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



This symbol indicates where Diff Fluid should be applied.



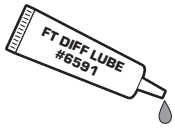
This symbol indicates where Shock Fluid should be applied.



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



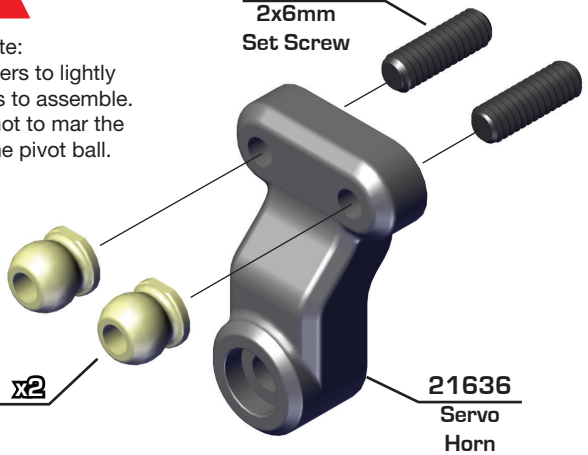
This symbol indicates where Black Grease should be applied.



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.

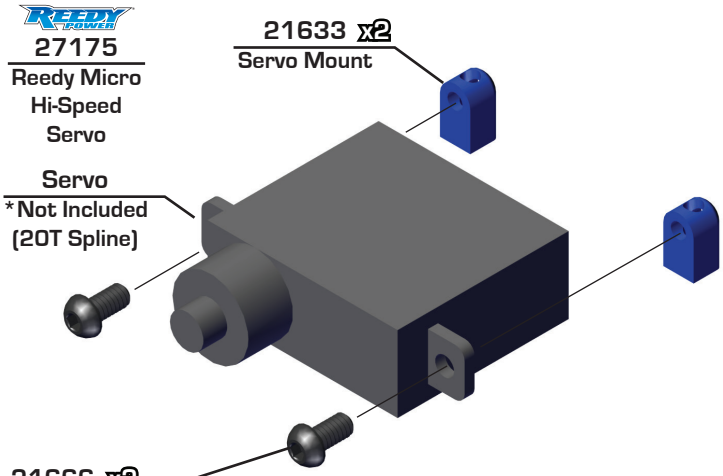


Note:
Install set screws flush with servo horn!

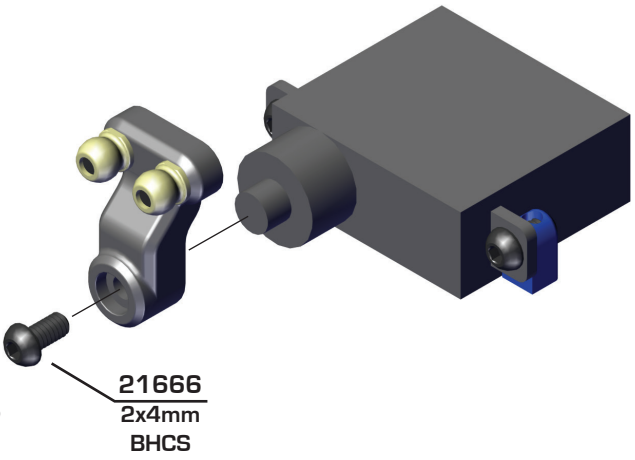


Note:
Servo horn deisgned for 20T 4mm diameter spline servo.

Bag 1 - Step 2

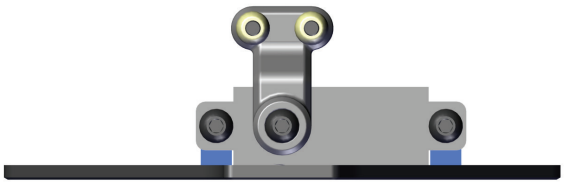


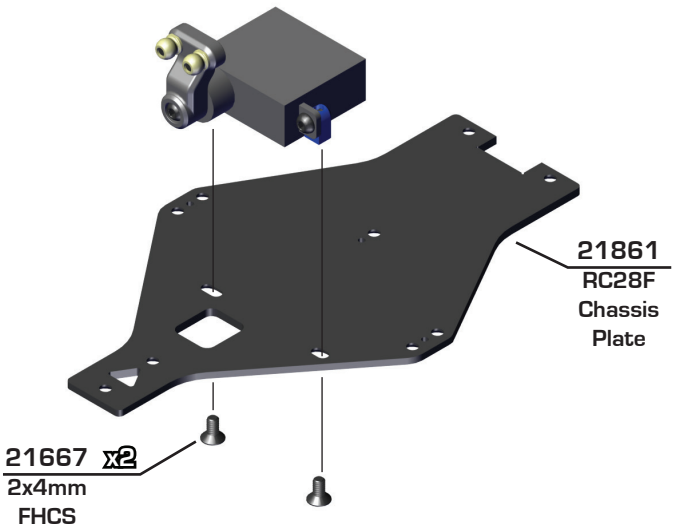
Note servo orientation



Bag 1 - Step 3

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





Bag 1 - Step 4

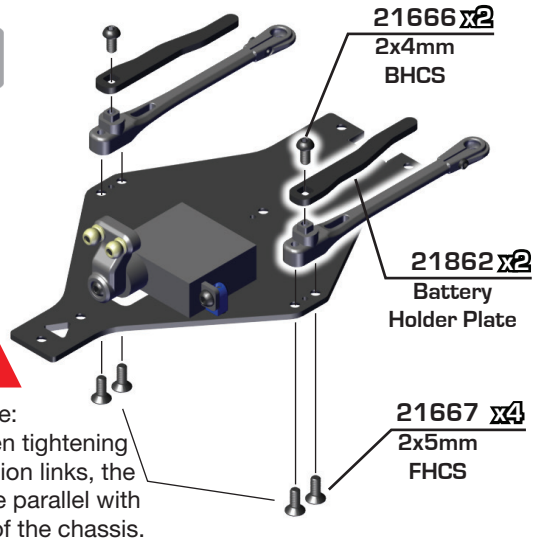


Note:
Torsion link shims included for using higher center pivot positions. 0.5mm for mid, 1mm for high.
Kit setup is 0mm.



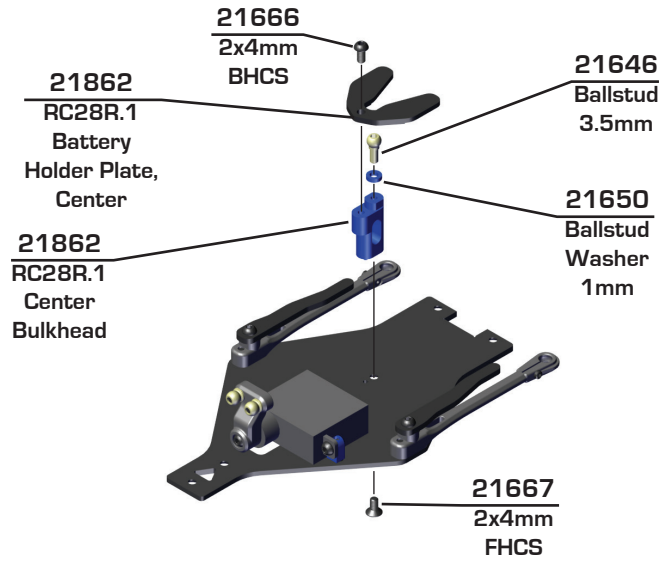


Note:
Leave loose. Use M1 screw to remove play from torsion link pivot ball fitment.



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

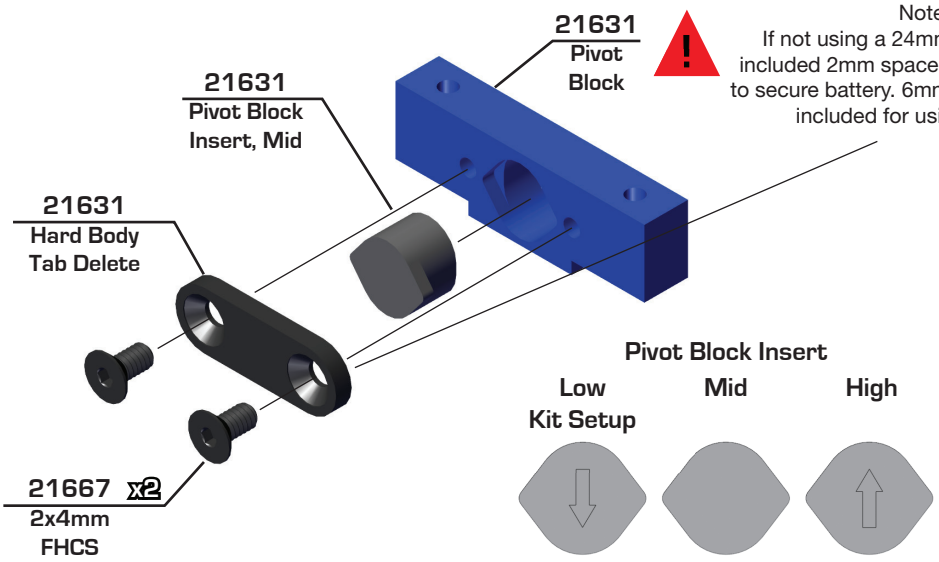
Bag 1 - Step 5





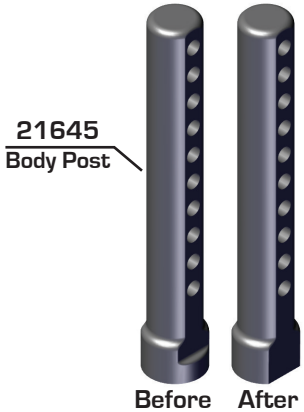
Note:
Battery Holder Plate, Center has a machined face for battery fitment. Use the machined side for taller batteries.

Bag 2 - Step 1

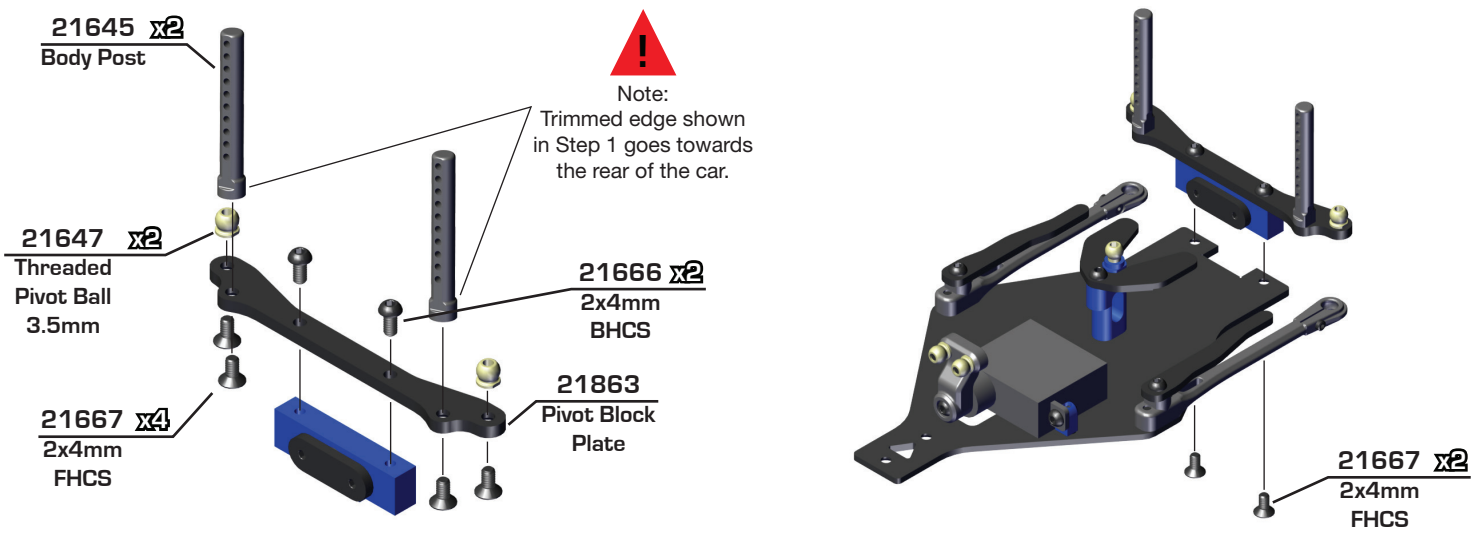


Note:
If not using a 24mm width battery, included 2mm spacers may be needed to secure battery. 6mm and 8mm screws included for using spacers.

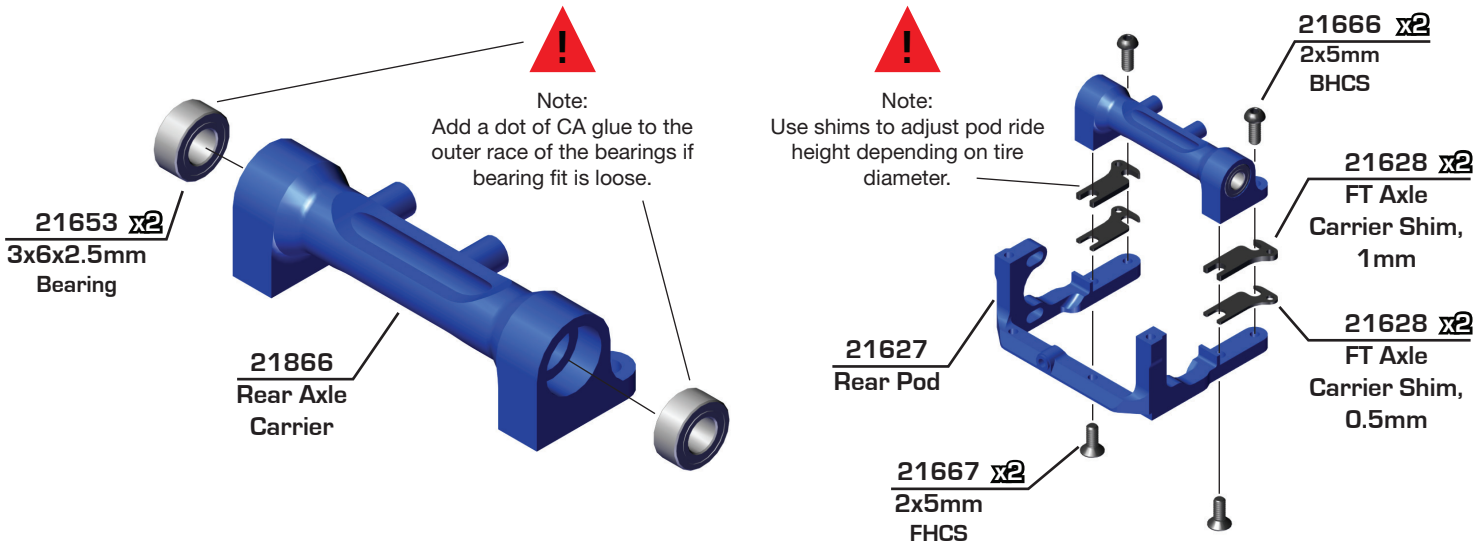
Note:
Trim back edge like shown in image below.



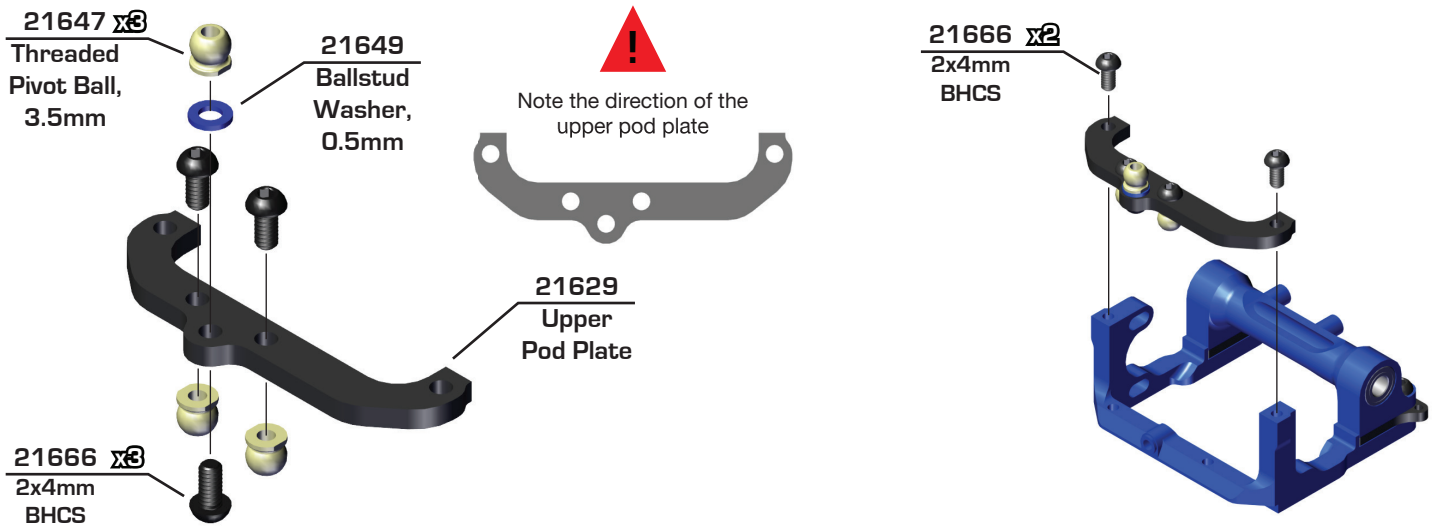
Bag 2 - Step 2



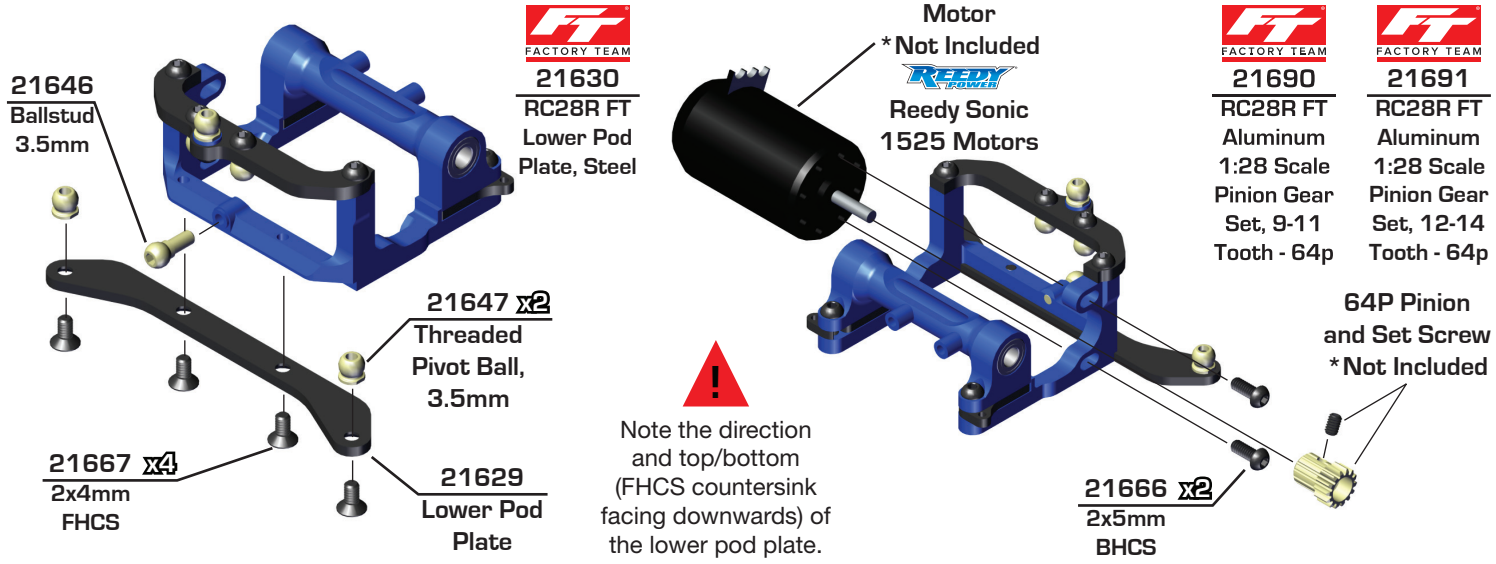
Bag 3 - Step 1



Bag 3 - Step 2

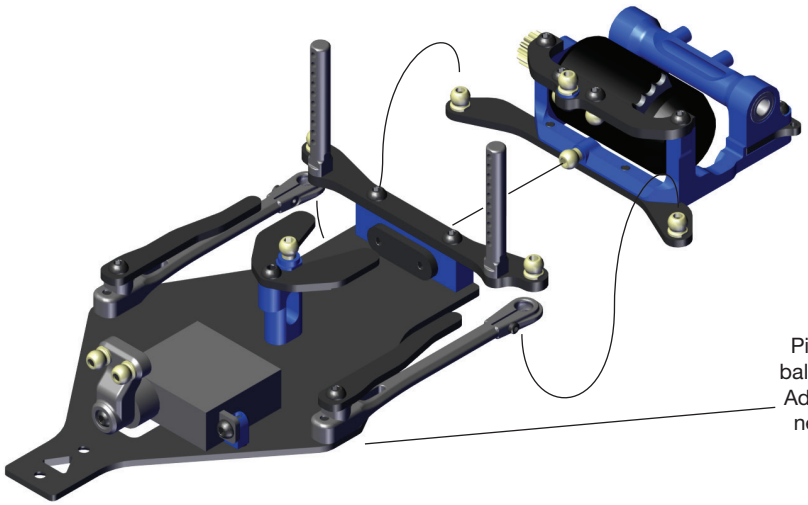


Bag 3 - Step 3



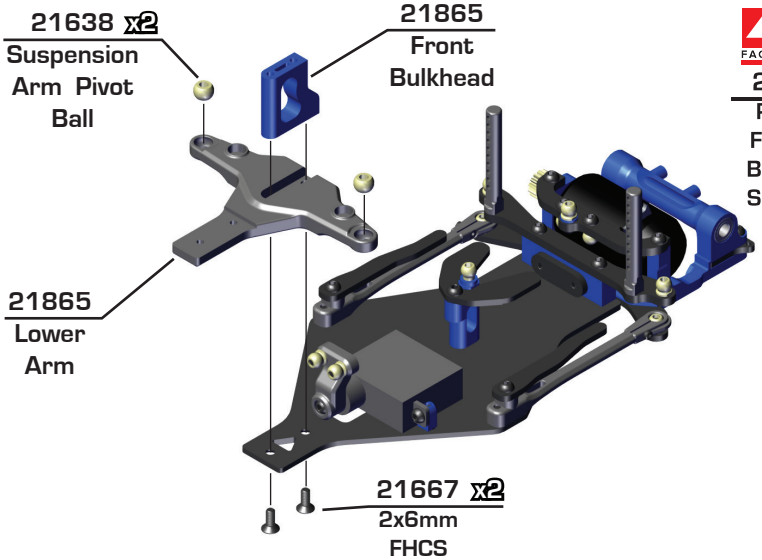
Note the direction and top/bottom (FHCS countersink facing downwards) of the lower pod plate.

Bag 3 - Step 4

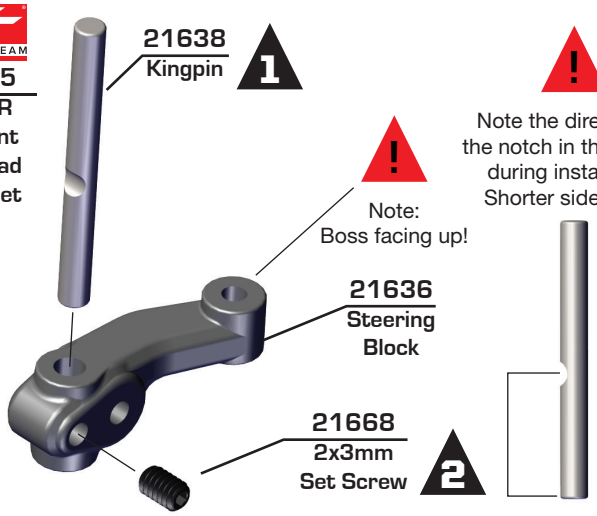


Note:
Pinch torsion link on pivot ball with pliers lightly if tight. Adjust torsion bar tweak as needed by loosening and tightening screws.

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)

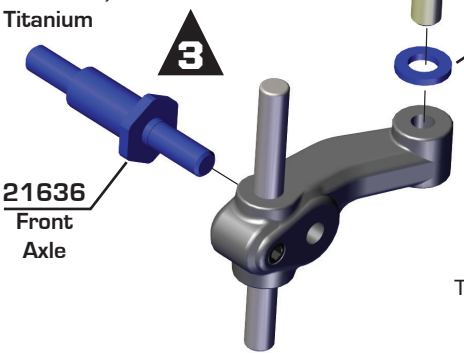
Bag 4 - Step 2

21637
RC28R FT Adjustable Front Axles, Titanium

21646
Ballstud 3.5mm

21650
Ballstud Washer, 1mm

21636
Front Axle



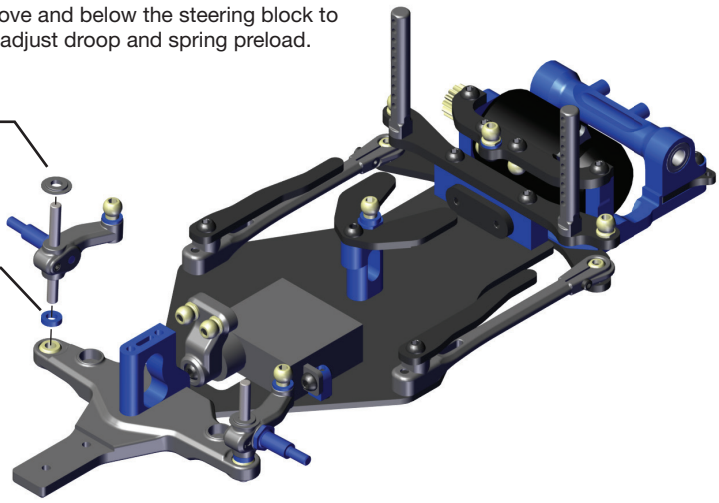
Take care to thread the axle into the steering block straight.

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

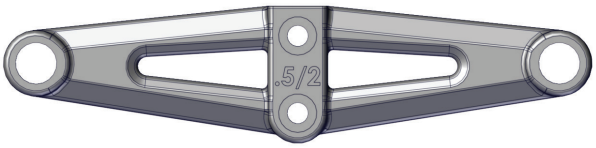
21650
Ballstud Washer, 1mm



Install x2 (right and left side)

Bag 4 - Step 3

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

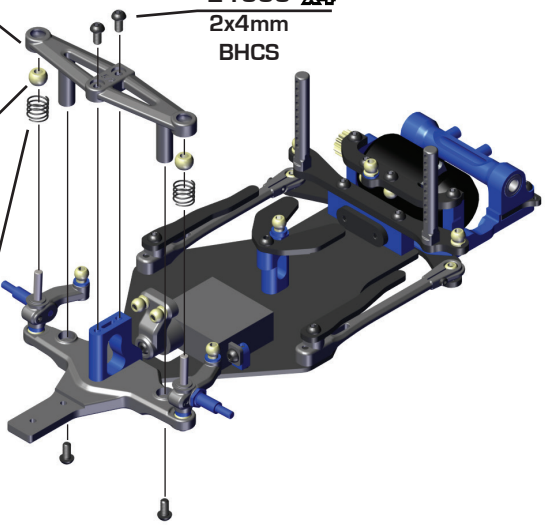


21865
Upper Arm, 0.5/2

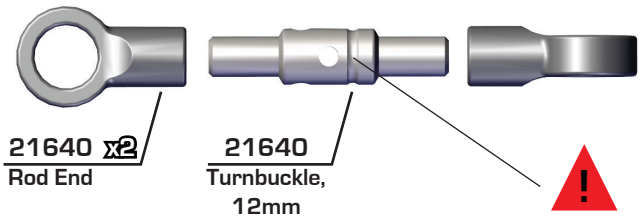
21666 x4
2x4mm BHCS

21638 x2
Suspension Arm Pivot Ball

21651 x2
Front Spring, Red



Bag 4 - Step 4

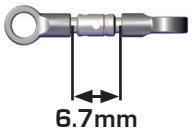


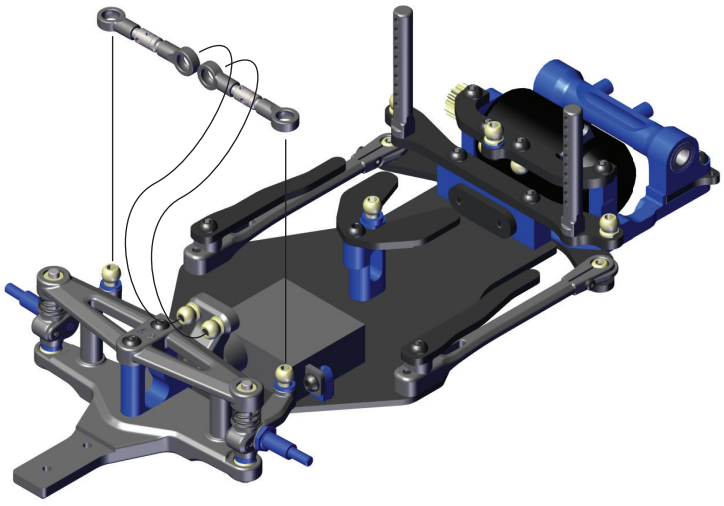
21640 x2
Rod End

21640
Turnbuckle, 12mm

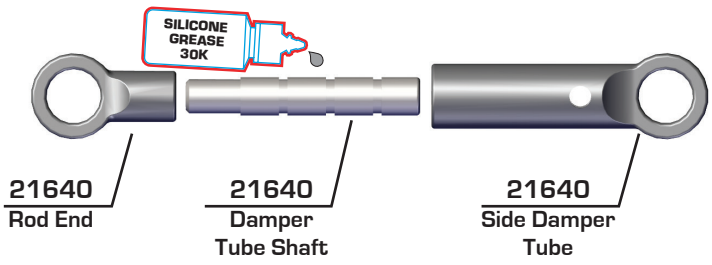
Note:
Notch indicates left hand thread. Install notch on left side of car.

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

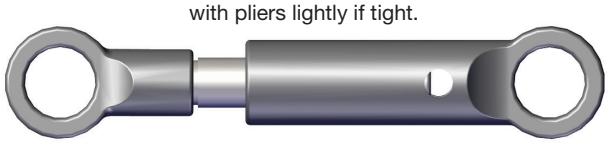


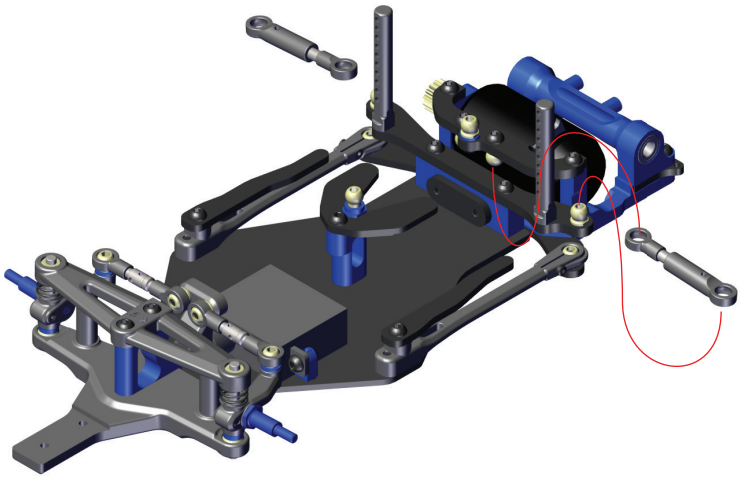


Bag 5 - Step 1

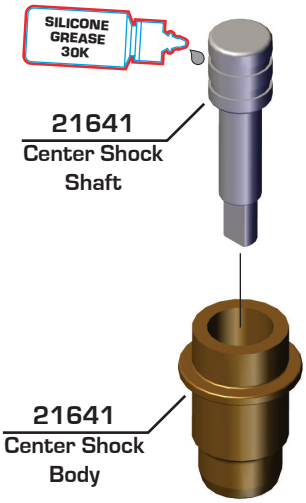


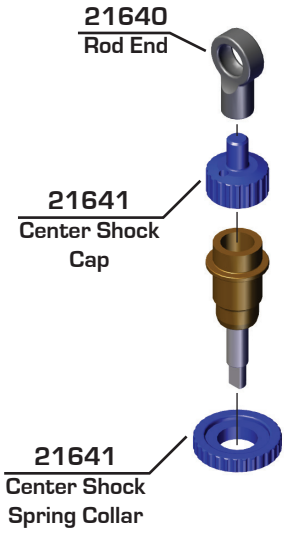
Note:
Pinch ballcups on pivot ball with pliers lightly if tight.

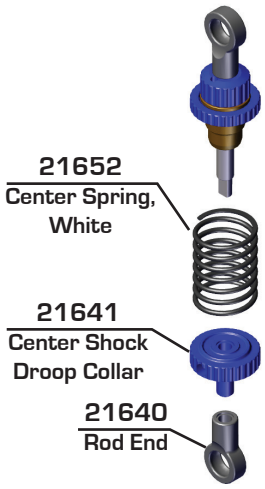




Bag 5 - Step 2

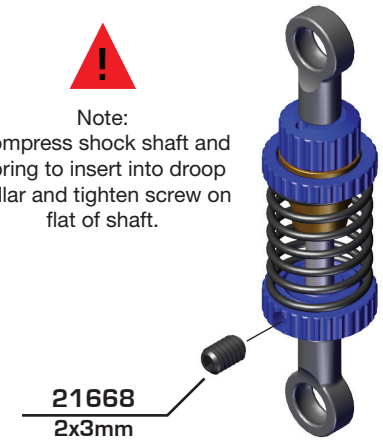




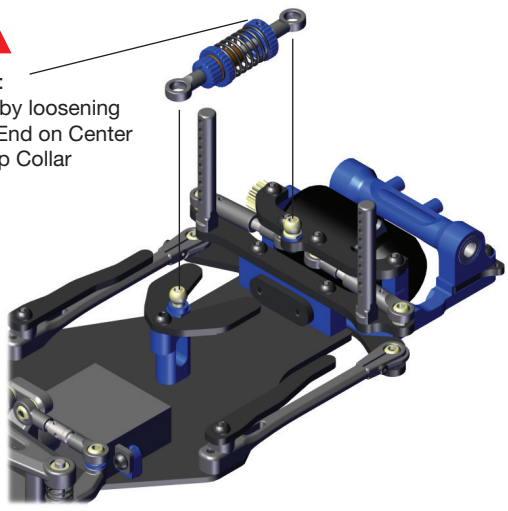


Bag 5 - Step 3

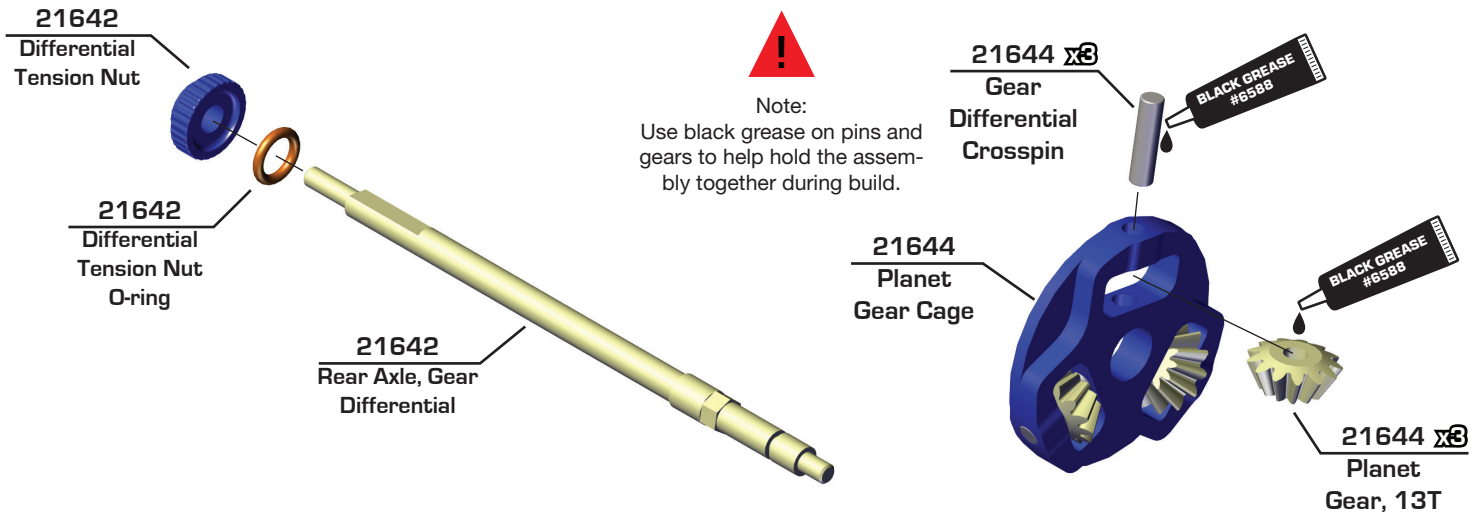
Note:
Compress shock shaft and spring to insert into droop collar and tighten screw on flat of shaft.



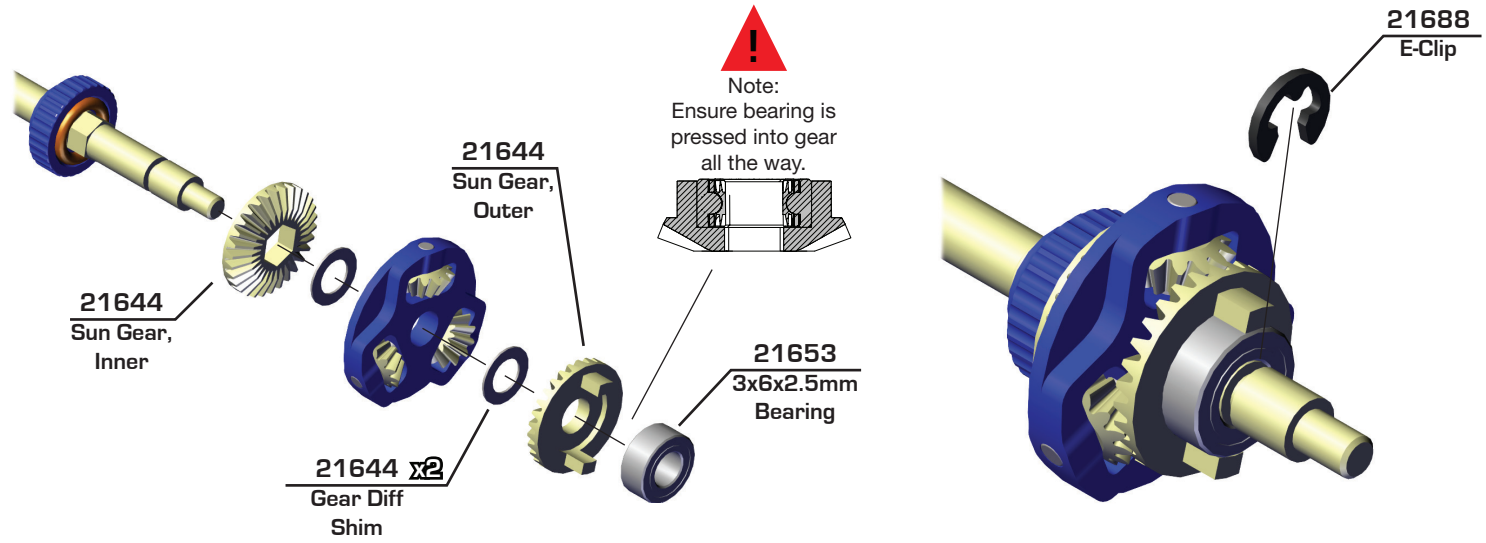
Note:
Pod droop is set by loosening or tightening Rod End on Center Shock Droop Collar



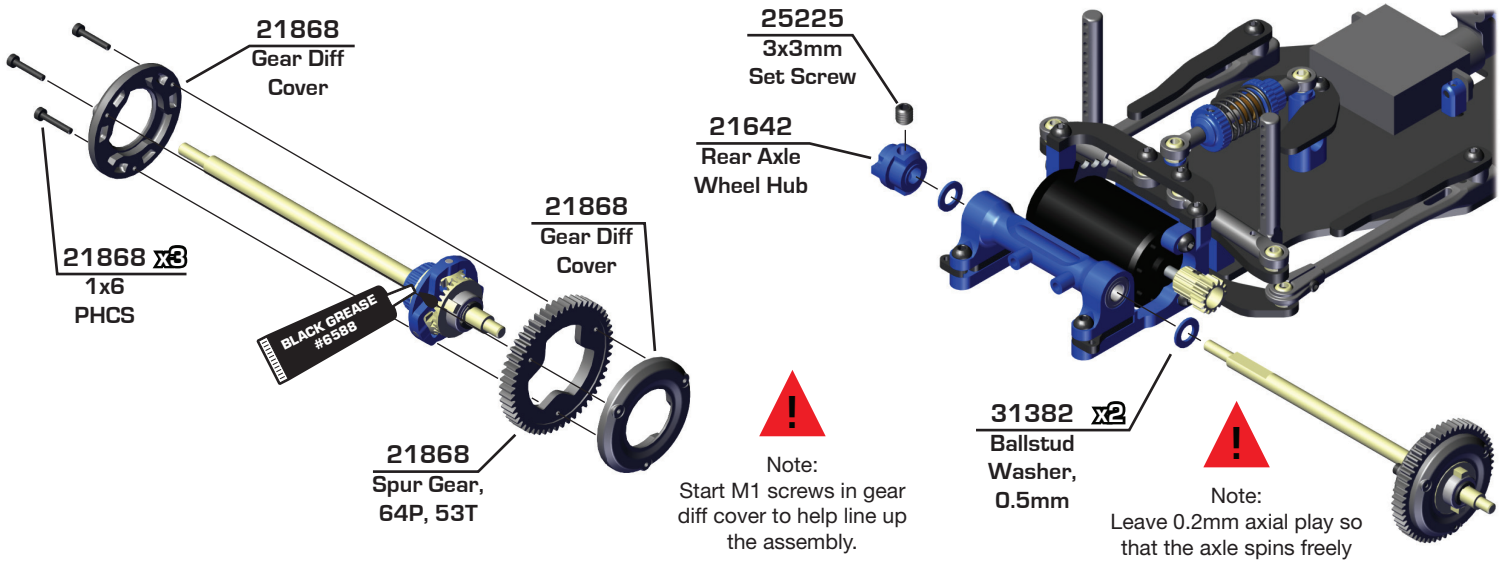
Bag 6 - Step 1



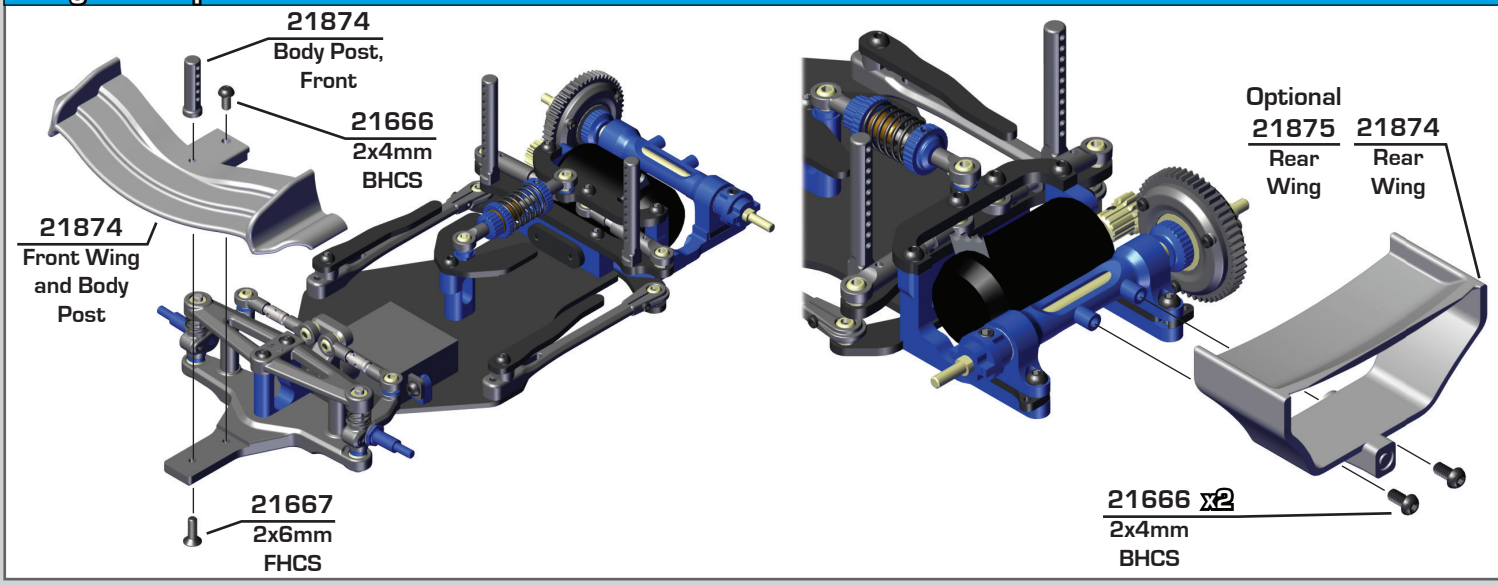
Bag 6 - Step 2



Bag 6 - Step 3



Bag 7 - Step 1



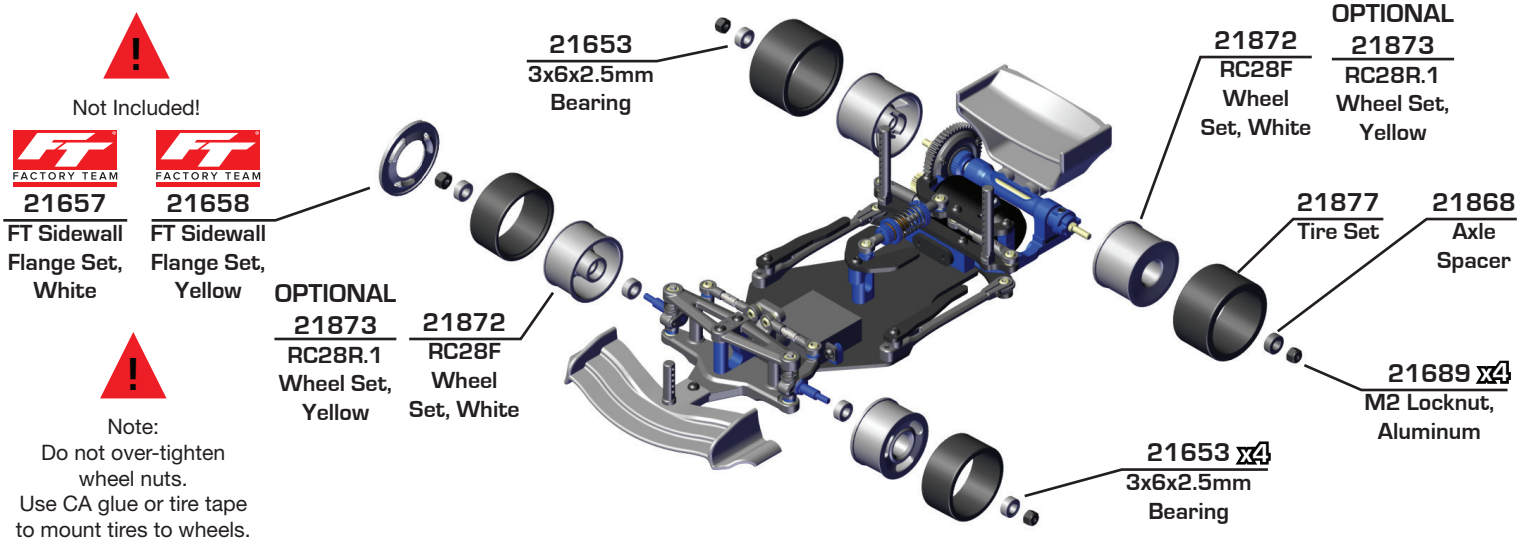
Bag 7 - Step 2

Not Included!

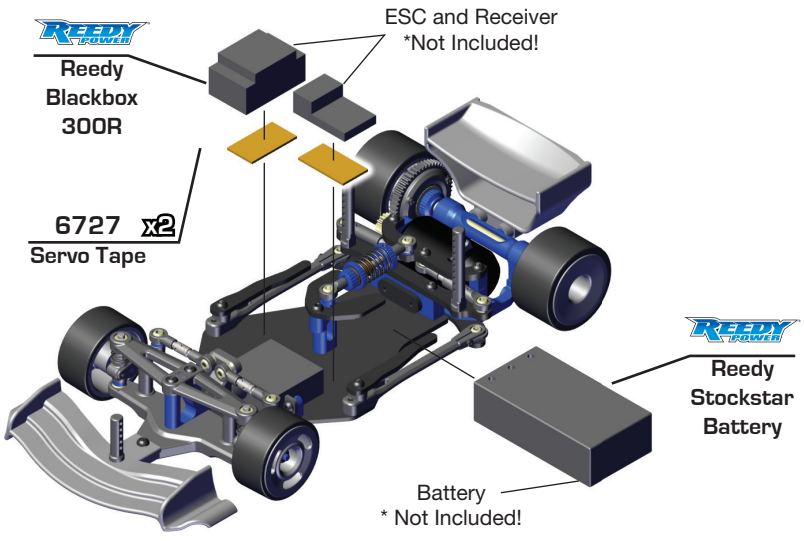
21657
FT Sidewall Flange Set, White

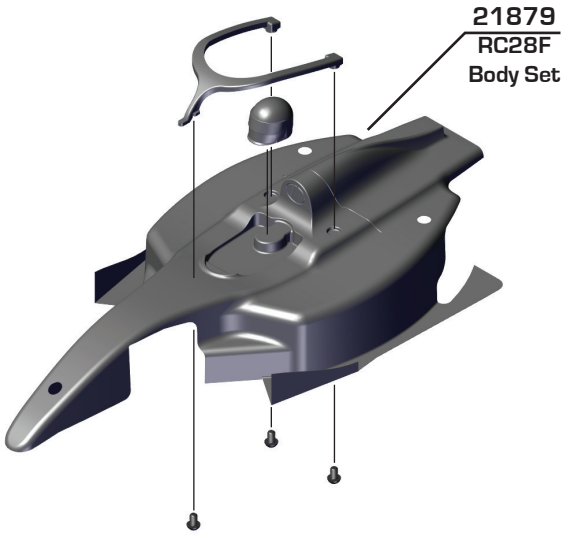
21658
FT Sidewall Flange Set, Yellow

Note:
Do not over-tighten wheel nuts.
Use CA glue or tire tape to mount tires to wheels.

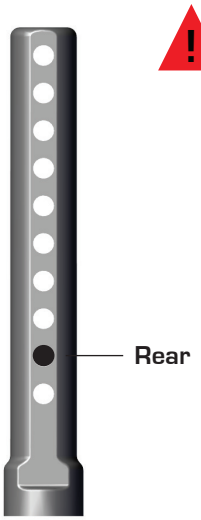


Bag 7 - Step 3

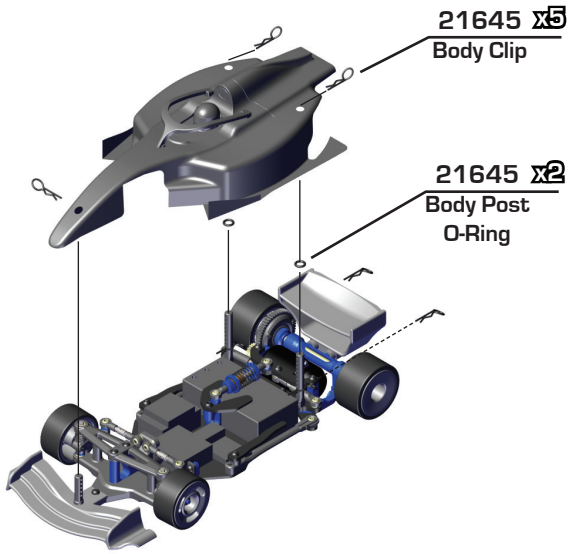




:: Bag 7 - Step 2



Note:
Adjust the body height depending on body used.



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

Notes

RC28F 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) ☐ Other:

Traction: Low ☐ Medium ☐ High ☐

Condition: Bumpy ☐ Smooth ☐ Dirty ☐ Clean ☐

Temperature: Ambient: Track:

Notes:

Vehicle Info:

Body: RC28F

Wing: RC28F

Body Notes:

Wheelbase: 110mm

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: AE V2 11mm Offset: 0

Front Adhesive: CA Glue ☐ Tape ☐

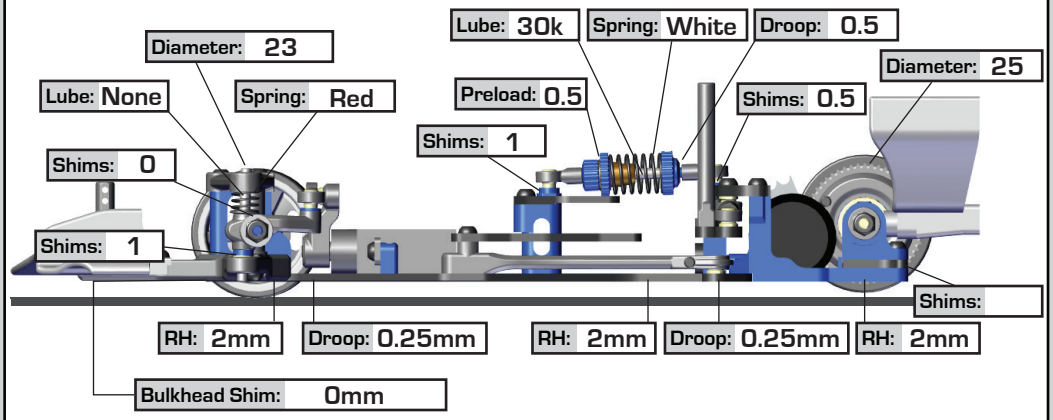
Front Wheel Flange Diameter: None ☐

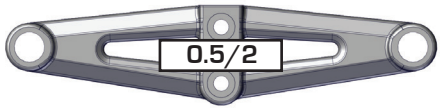
Rear Tires:

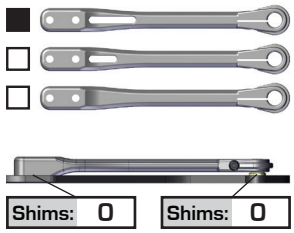
Rear Wheels: AE V2 14mm Offset: 0

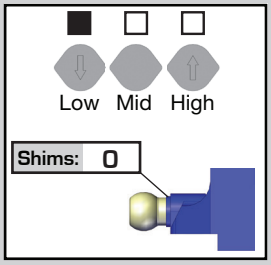
Rear Adhesive: CA Glue ☐ Tape ☐

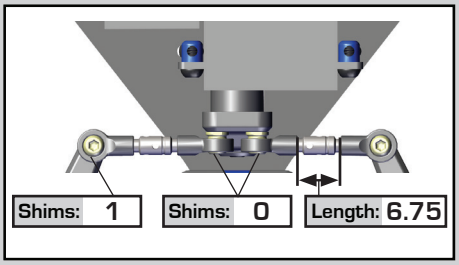
Notes:

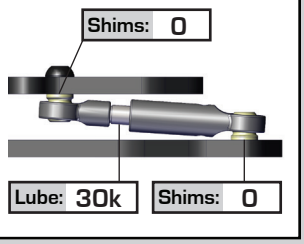


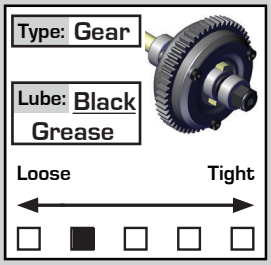


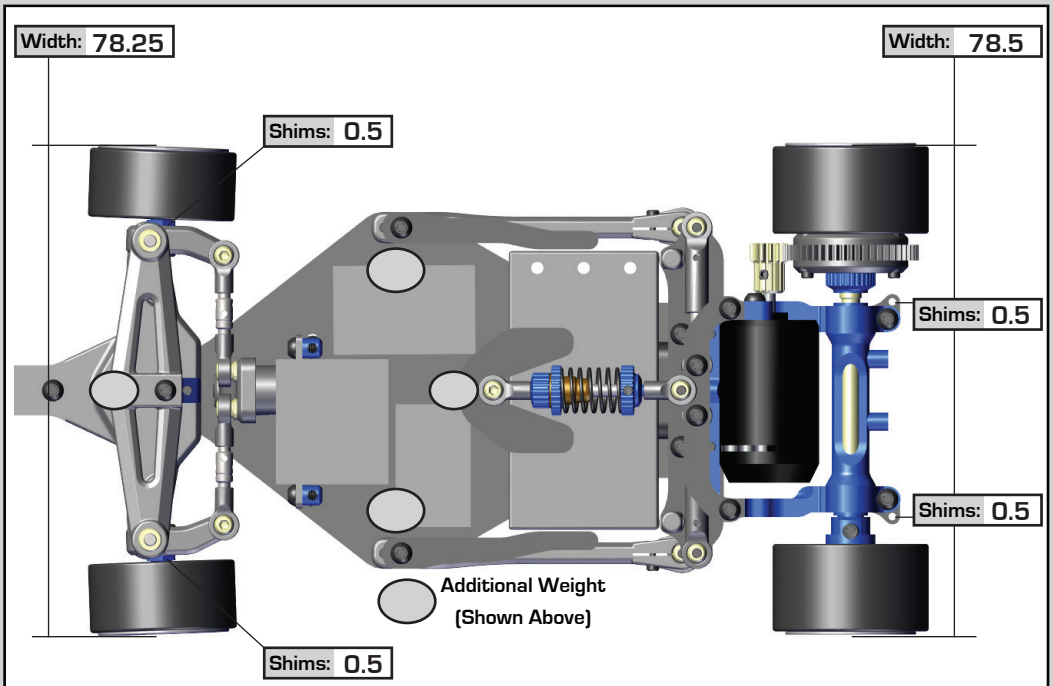












:: For more setups, visit RC10.com and click on "Setup Sheets"

RC28F 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) ☐ Other: _____

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 ☐

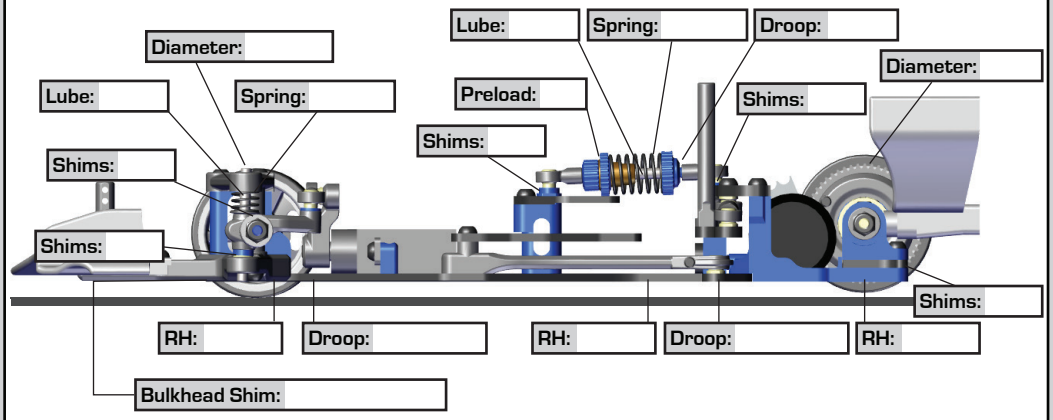
Front Wheel Flange Diameter: None ☐

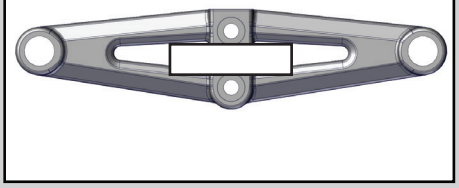
Rear Tires:

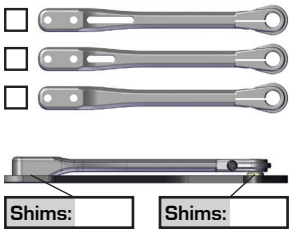
Rear Wheels: Offset:

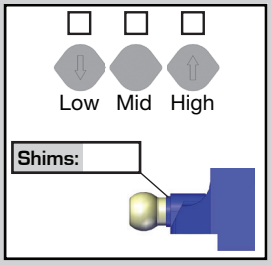
Rear Adhesive: CA Glue ☐ Tape ☐

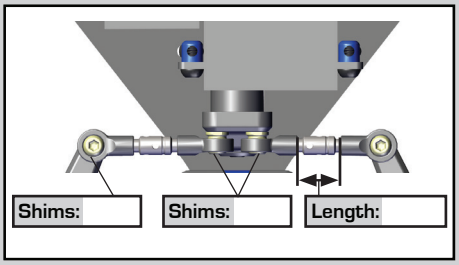
Notes: _____

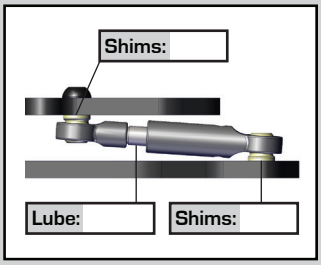


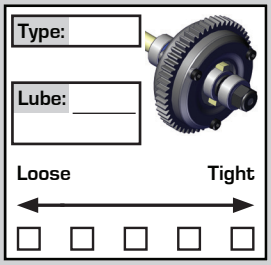


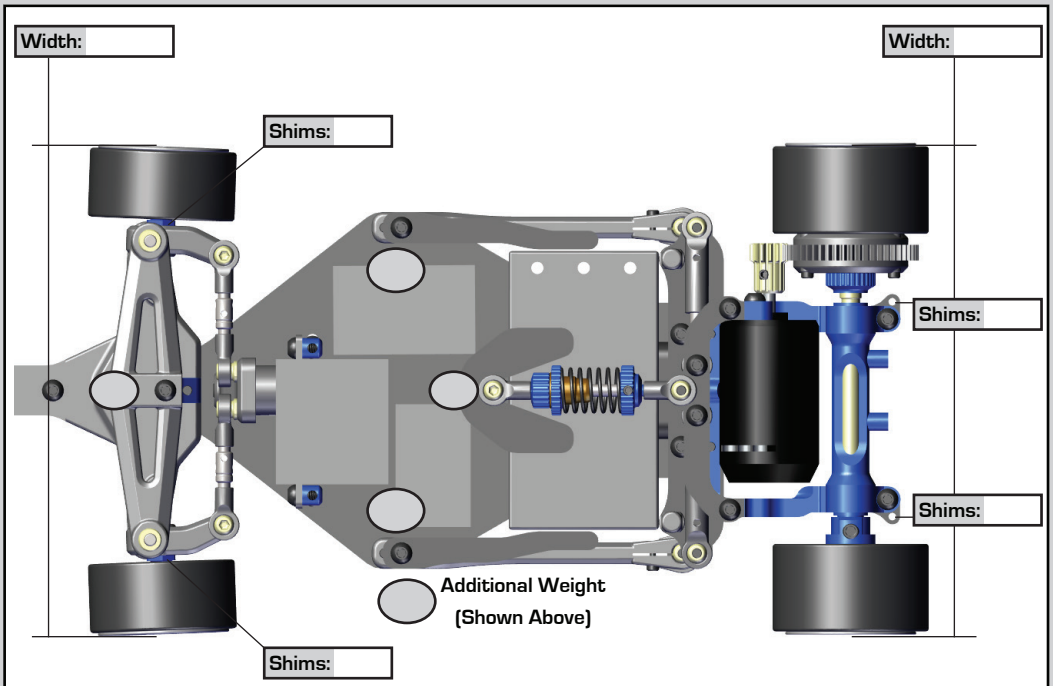












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