TC28 TEAM KIT

1:28 Scale 4WD Electric
On Road Competition Kit



TEAM ASSOCIATED

1:28 Scale 4WD Electric On Road Competition Kit Manual

#20169 TC28 4WD 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.

:: TC28 Features

- Steel chassis plate for low center of gravity
- Independent suspension front and rear
- Mid-motor configuration with equal length belts (front and rear)
- Fluid filled gear differentials front and rear with height and belt tension adjustment
- Anti-roll bar system for front and rear suspension
- Silicone grease lubricated shocks
- Constant velocity driveshafts
- RadBody Mako X2 included
- Compatible with all Reedy Electronics for 28th scale
- White wheels included that fit optional front wheel flanges to tune steering feel
- Universal front bumper included

:: Additional

Your new TC28 Kit comes unassembled
and requires the following items for completion
(refer to AssociatedElectrics.com for suggestions):

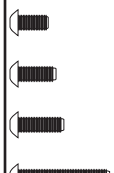
- R/C two channel surface frequency radio system
- AA-size batteries for transmitter
- Electronic Speed Control (“ESC”)
- Steering servo
- R/C electric motor
- Battery charger
  (a peak detection charger, or LiPo compatible charger)
- 2 cell LiPo battery pack
- Polycarbonate specific spray paint
- Cyanoacrylate 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
- FT 28th Scale Camber Tool (#21481)
- Small Needle Nose Pliers
- Hobby Knife

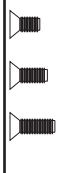
Hardware - 1:1 Scale View

Button Head (bhcs)



2x4mm (21666)
2x5mm (21666)
2x6mm (21673)
2x12mm (21463)

Flat Head (fhcs)



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

Ball Bearing / Axle Spacer



2 x 4 x 1.2mm (21468)
2 x 5 x 2mm (21468)
4 x 7 x 2mm (21468)
5 x 8 x 2mm (21468)

Shims and Washers



2.2x4x0.5mm (21480)
3.8x2x0.5mm (21649)
3.8x2x1mm (21650)
3.8x2x1.75mm (21480)
3.8x2x2.50mm (21480)
5x3x0.2mm (21644)
5.5x0.5mm (31381)
5.5x1.0mm (31382)
5.5x2.0mm (31383)

Phillips Head (phcs)



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

Nuts (lock/plain)



M2 LockNut, Aluminum (21689)

Set Screws



2x2mm (21681)
2x3mm (21668)
2x4mm (21683)
2x6mm (21668)
3x3mm (25225)

Notes

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Bag 3

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Bag 5

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Bag 7

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Bag 8

15.....Wheels and Tires Build
Bag “Wheel”

15.....Body / Wing Build

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.



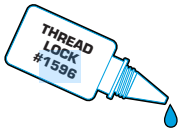
This symbol indicates the order within a step to assemble parts.



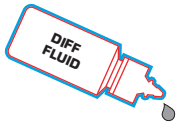
This symbol indicates there are optional FT parts available



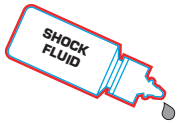
This symbol indicates a Racers Tip.



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



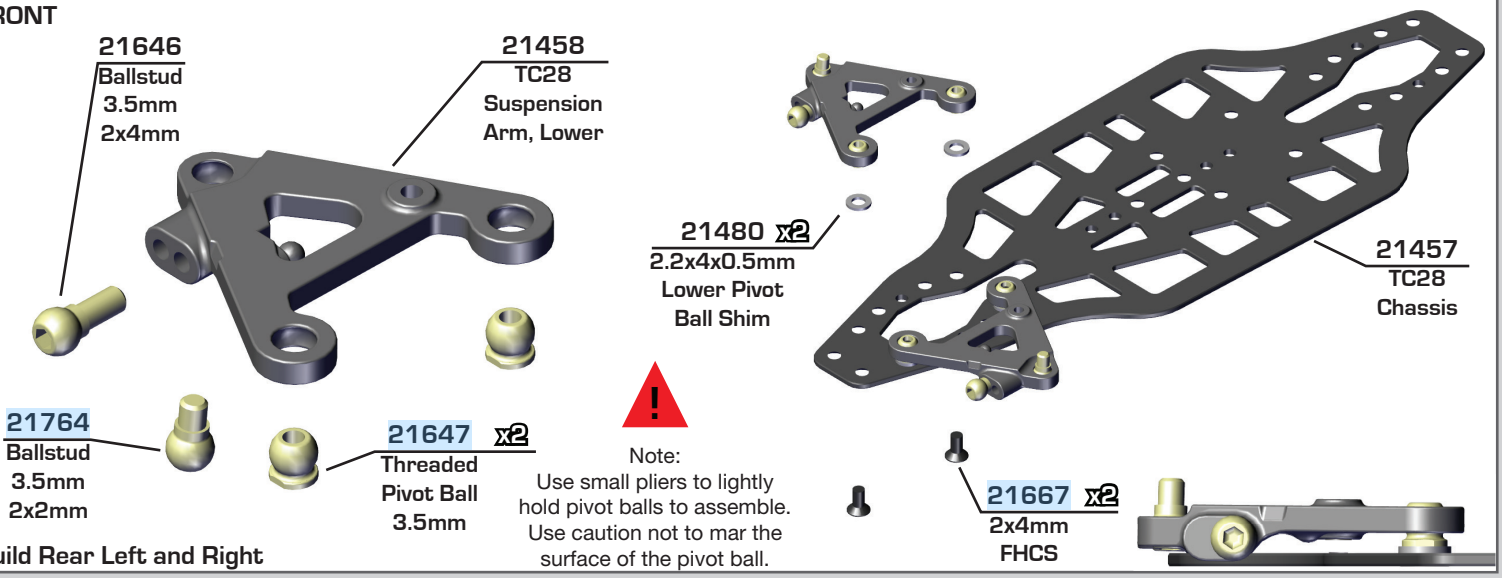
This symbol indicates where Black Grease should be applied.



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

Bag 1 - Step 1

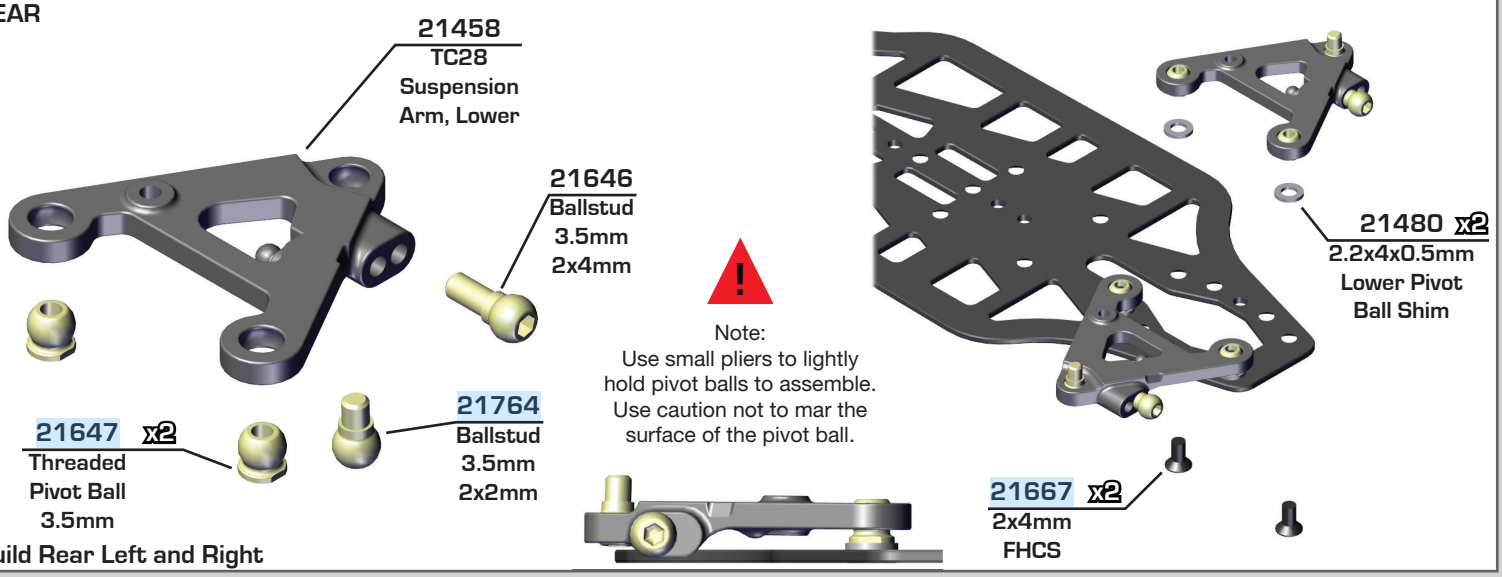
FRONT



Build Rear Left and Right

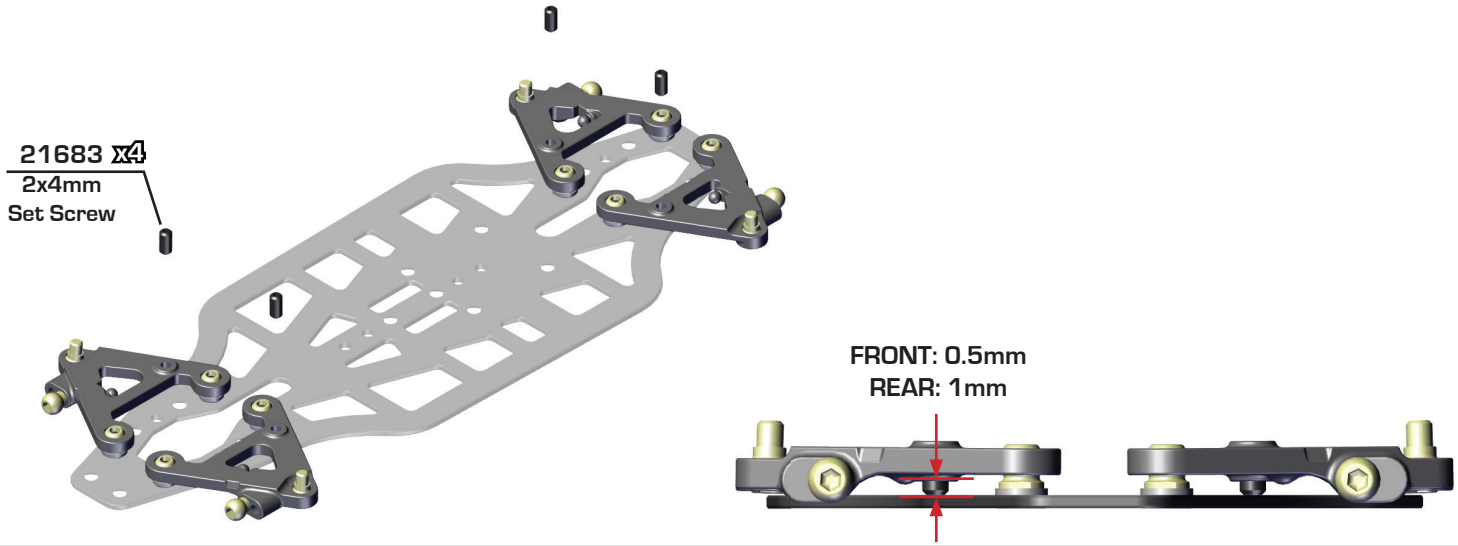
Bag 1 - Step 2

REAR



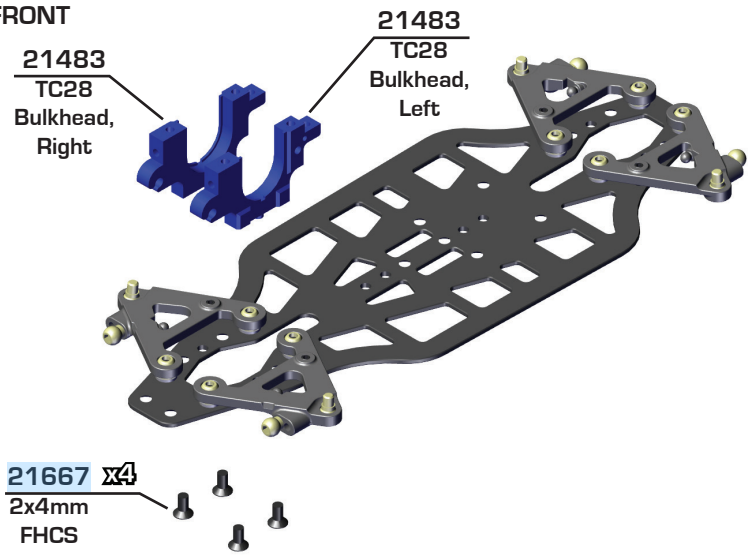
Build Rear Left and Right

Bag 1 - Step 3



Bag 2 - Step 1

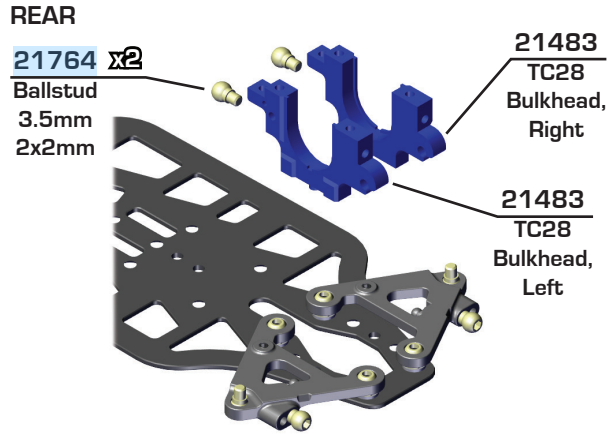
FRONT



21667 x4
2x4mm
FHCS

1

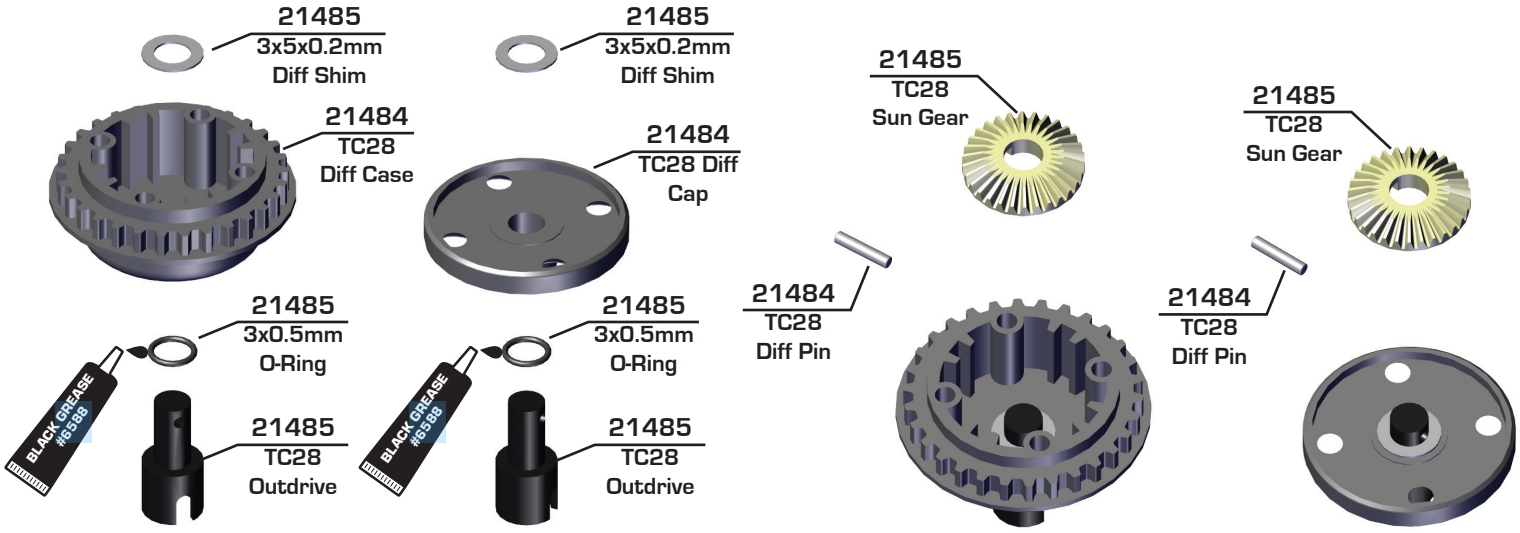
REAR



2

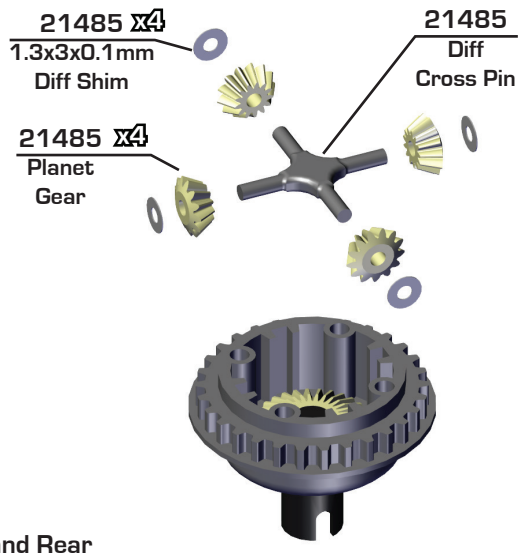
21667 x4
2x4mm
FHCS

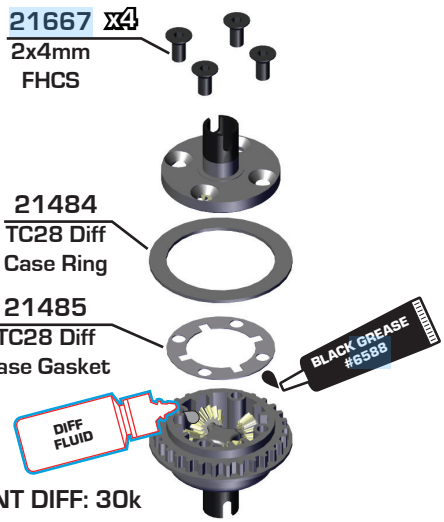
Bag 2 - Step 2



Build Front and Rear

Bag 2 - Step 3





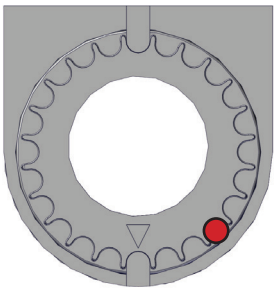
Note:
Fill to top of gears.

FRONT DIFF: 30k
REAR DIFF: 10k

Build Front and Rear

Bag 2 - Step 4

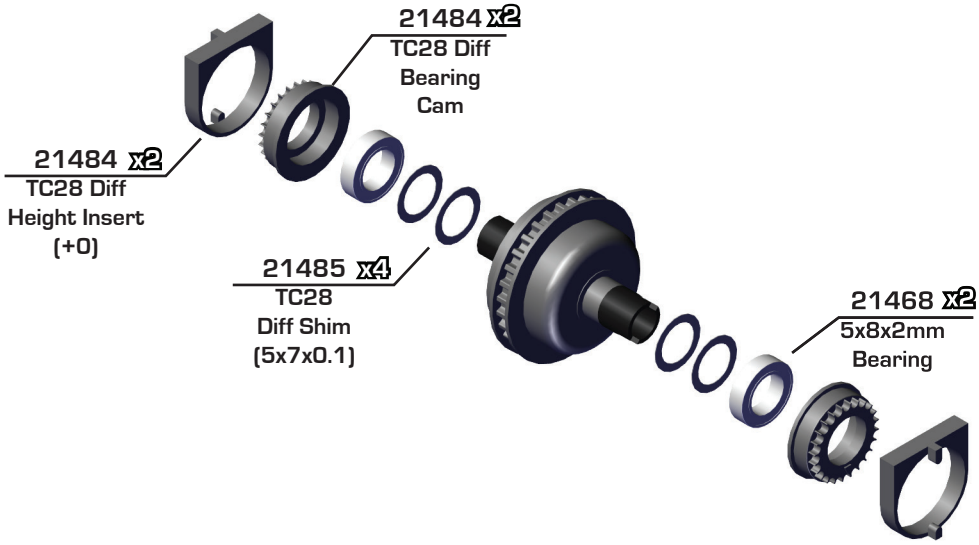
FRONT



CAM POSITION:

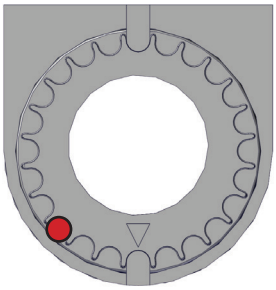
Always use the same cam position on both sides of the car.

Line up key feature with highlighted slot. Arrow should face away from the center of the car.
Use these cams to tighten or loosen the belt tension.



Bag 2 - Step 5

REAR



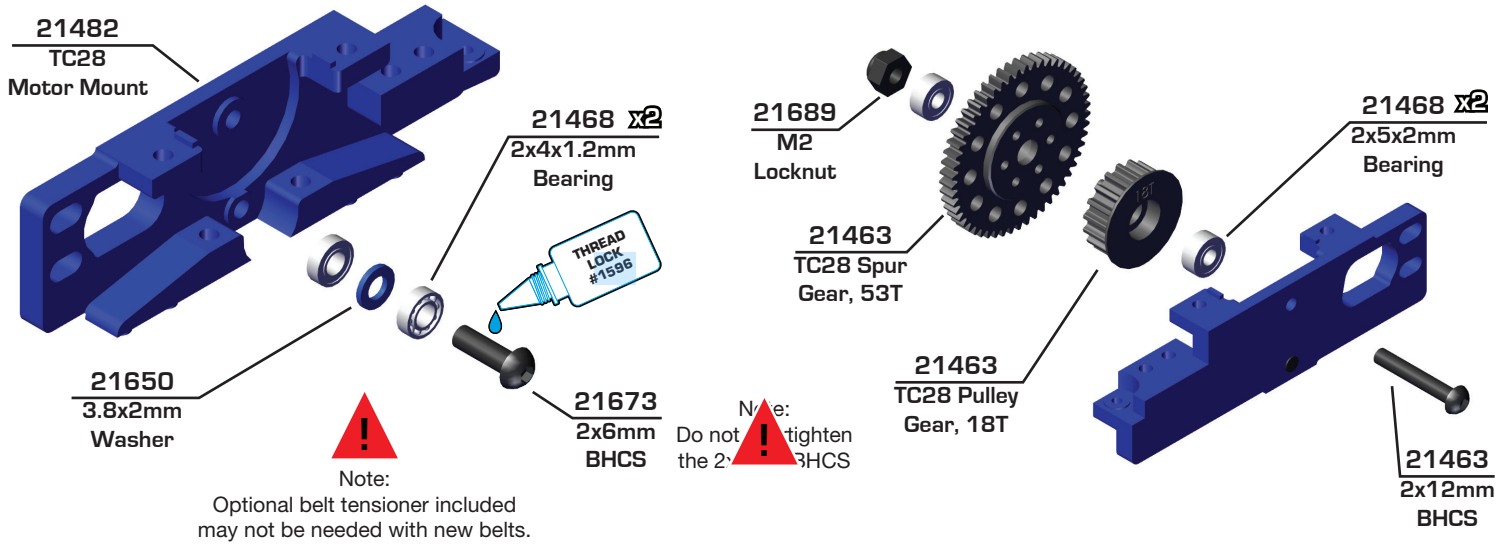
CAM POSITION:

Always use the same cam position on both sides of the car.

Line up key feature with highlighted slot. Arrow should face away from the center of the car.
Use these cams to tighten or loosen the belt tension.



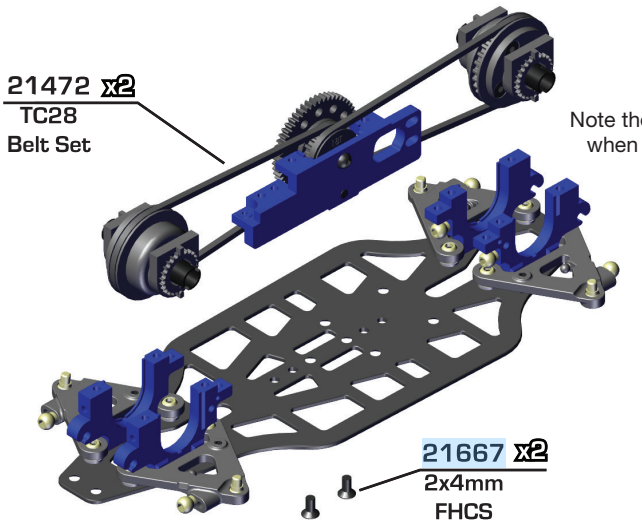
Bag 2 - Step 6



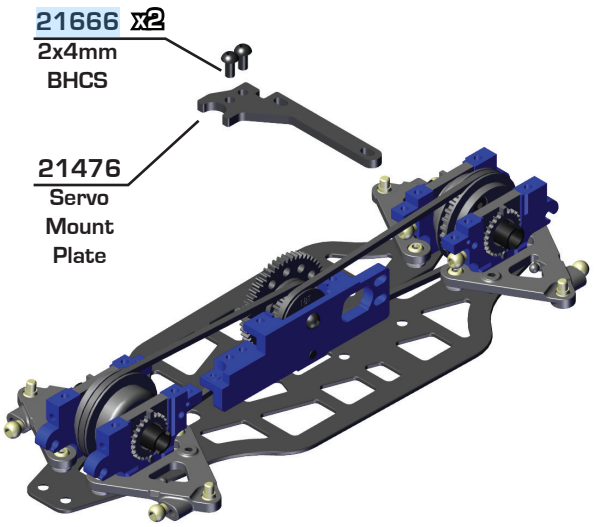
Note:
Optional belt tensioner included may not be needed with new belts.

Note:
Do not tighten the 2x BHCS

Bag 2 - Step 7

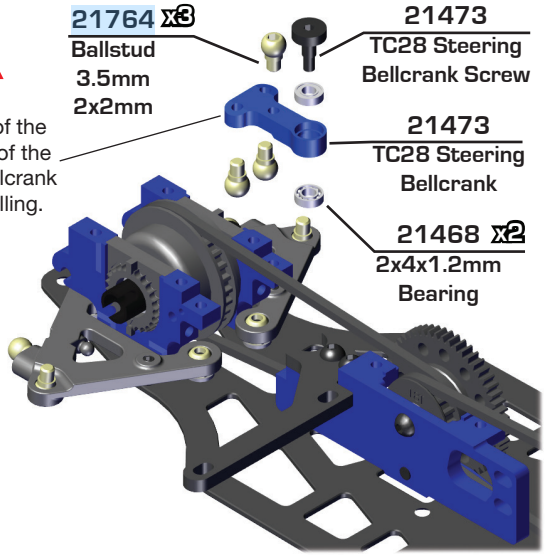


Note:
Note the diff directions when installing into chassis

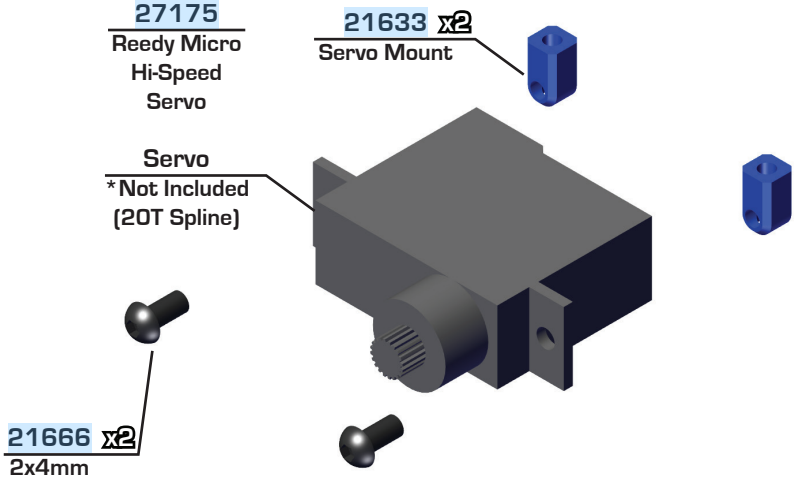


Bag 3 - Step 1

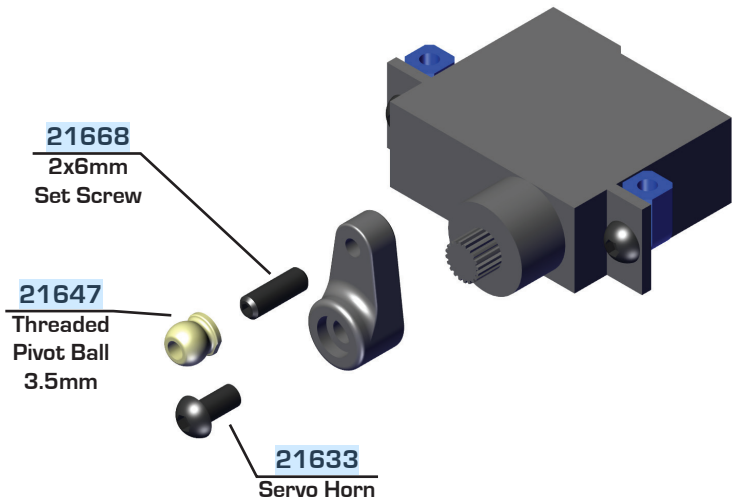
Note:
Take note of the orientation of the Steering Bellcrank when installing.

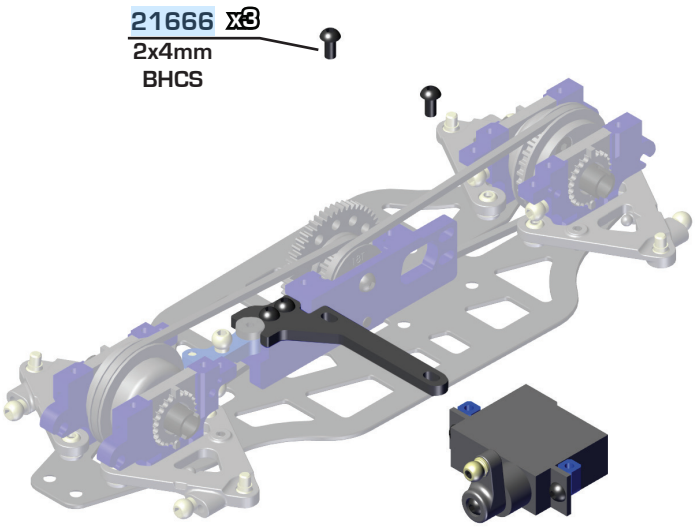


OPTIONAL
27175
Reedy Micro
Hi-Speed
Servo

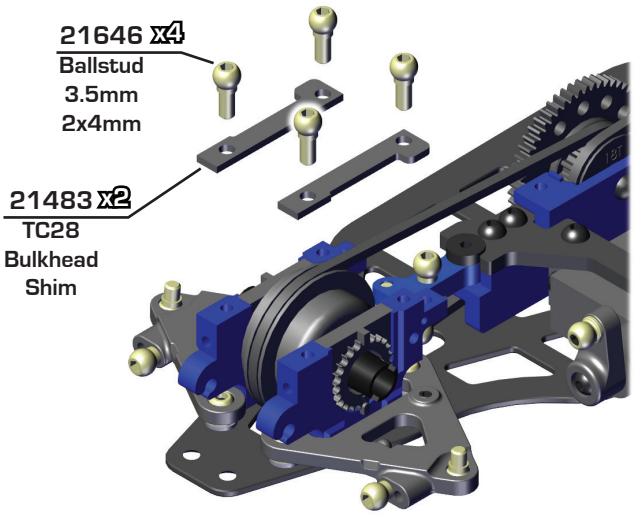


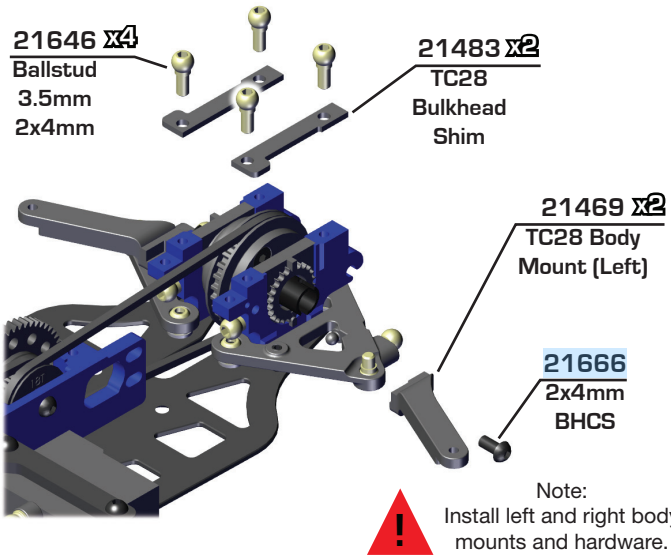
Bag 3 - Step 2





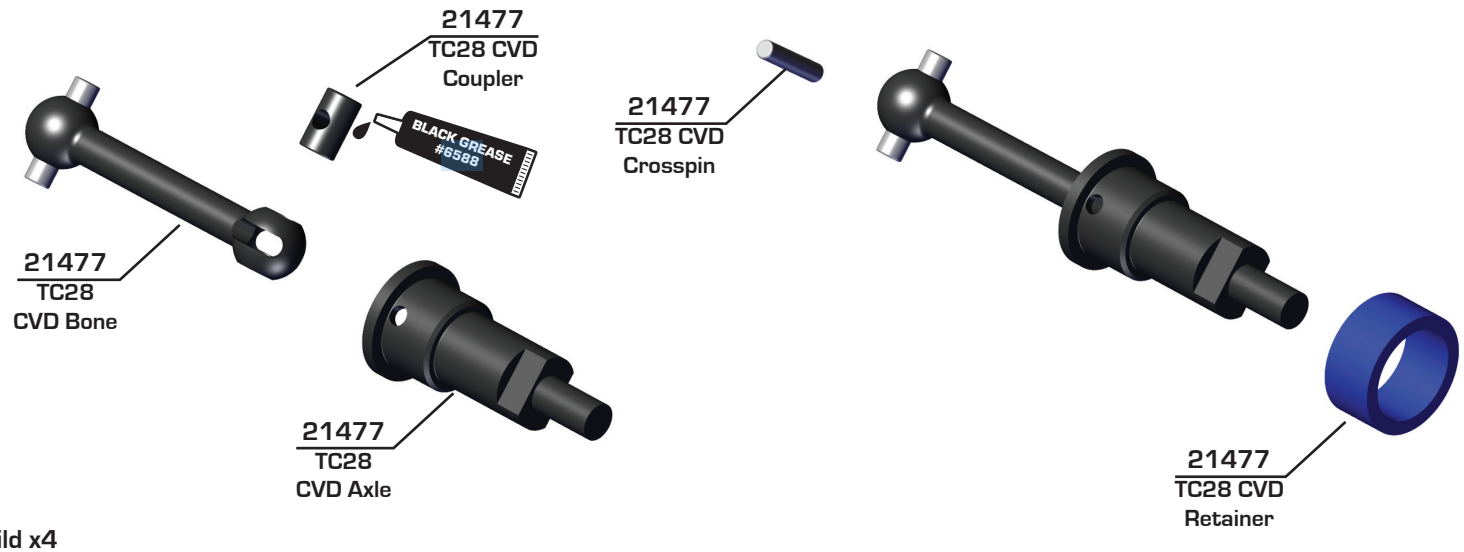
Bag 3 - Step 3





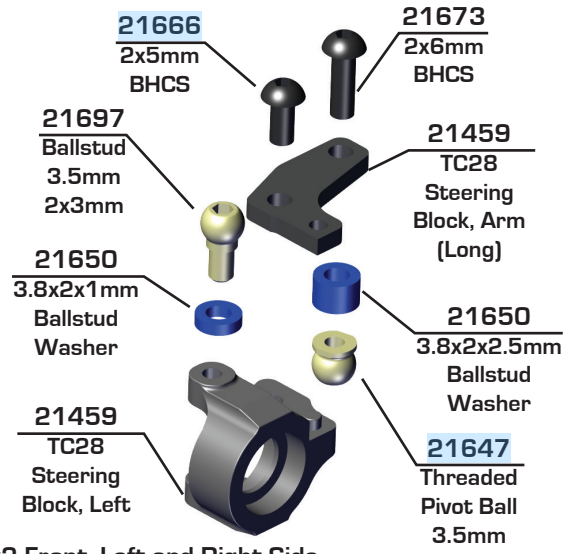
Note:
Install left and right body mounts and hardware.

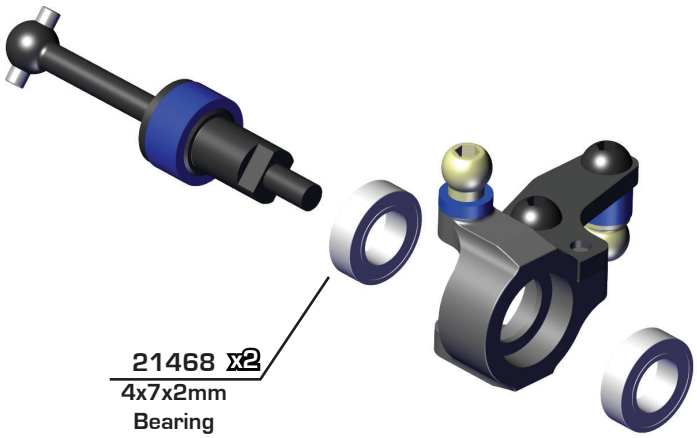
Bag 4 - Step 1



Build x4

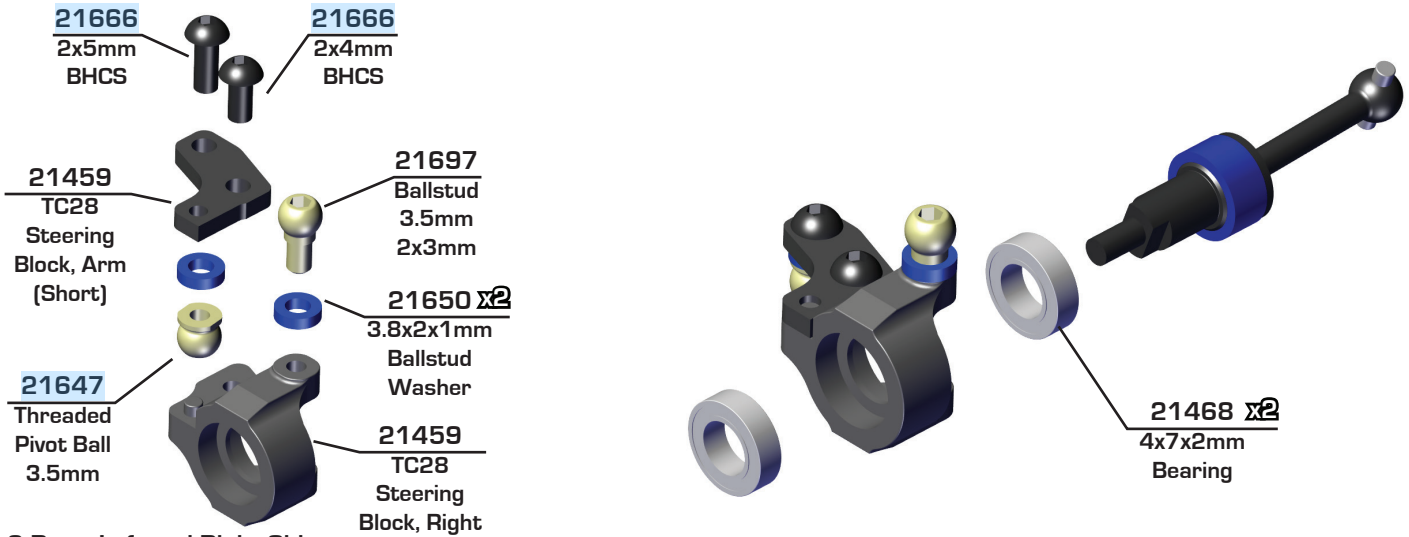
Bag 4 - Step 2





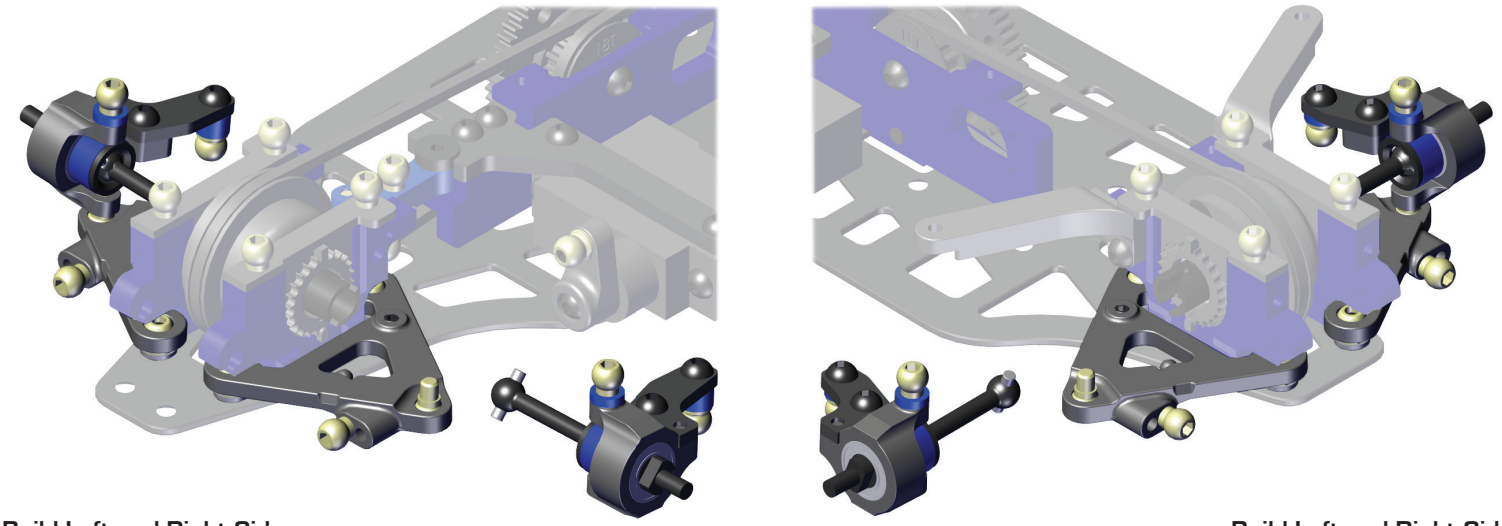
Build x2 Front, Left and Right Side

Bag 4 - Step 3



Build x2 Rear, Left and Right Side

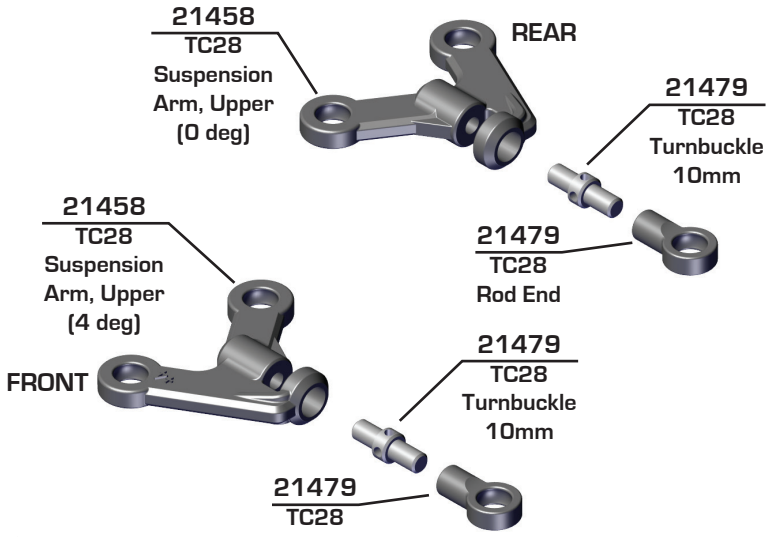
Bag 4 - Step 4



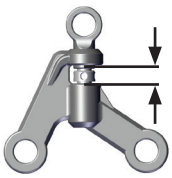
Build Left and Right Side

Build Left and Right Side

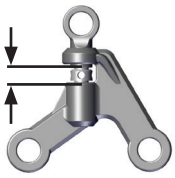
Bag 5 - Step 1



Front Upper Arm
2mm

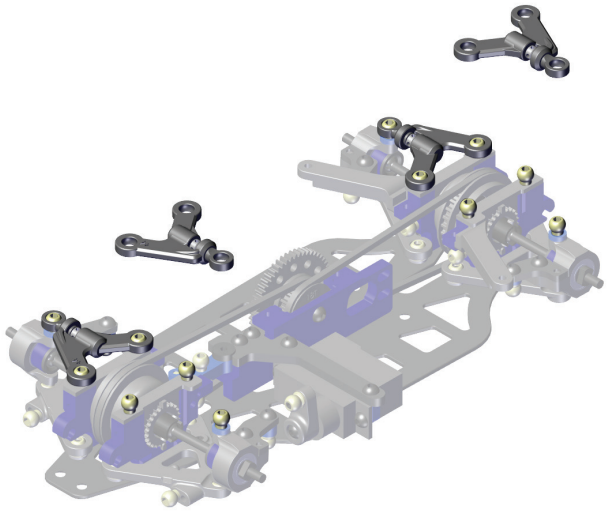


Rear Upper Arm
2mm



Build x2 Left and x2 Right Side

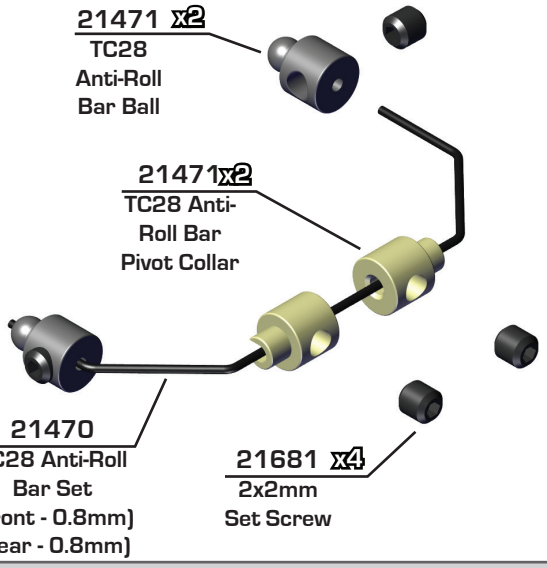
Bag 5 - Step 2



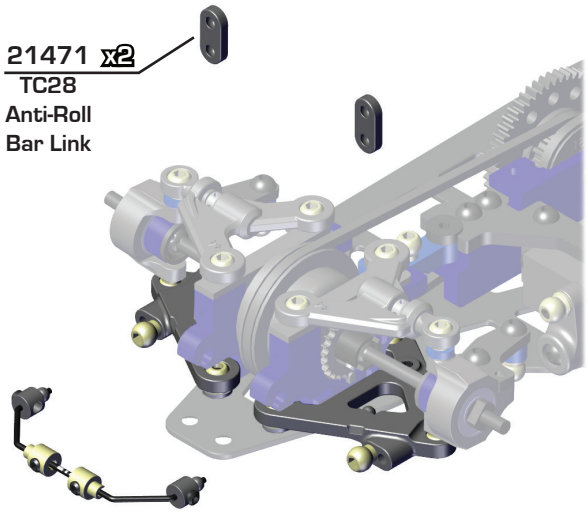
Build Left and Right Side

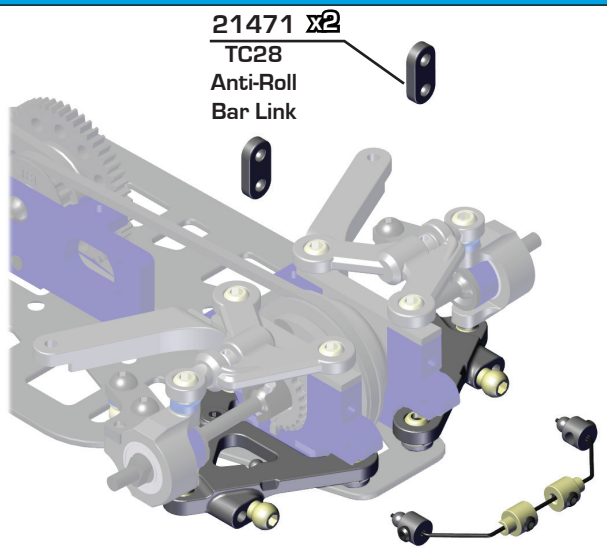


Note:
Set end of roll bar flush with Anti-Roll Bar Ball.

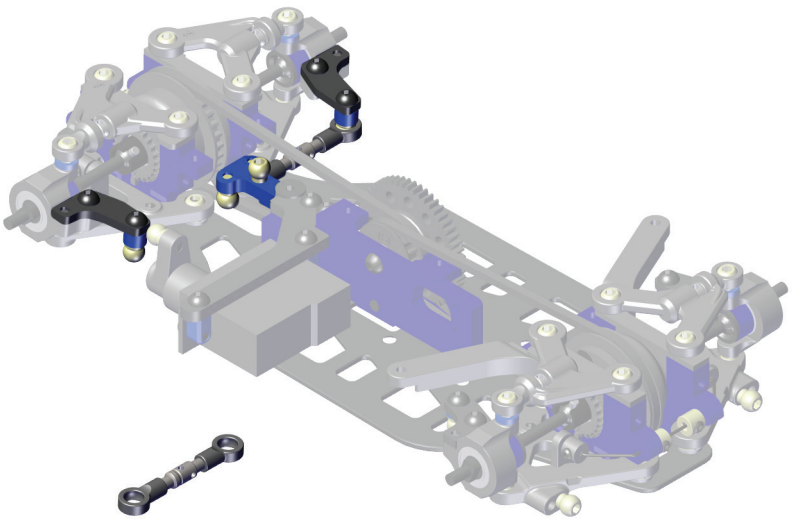


Bag 5 - Step 3

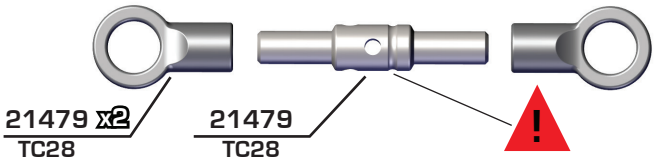




Bag 6 - Step 1

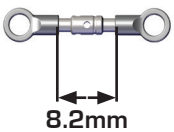


Build Left and Right Side

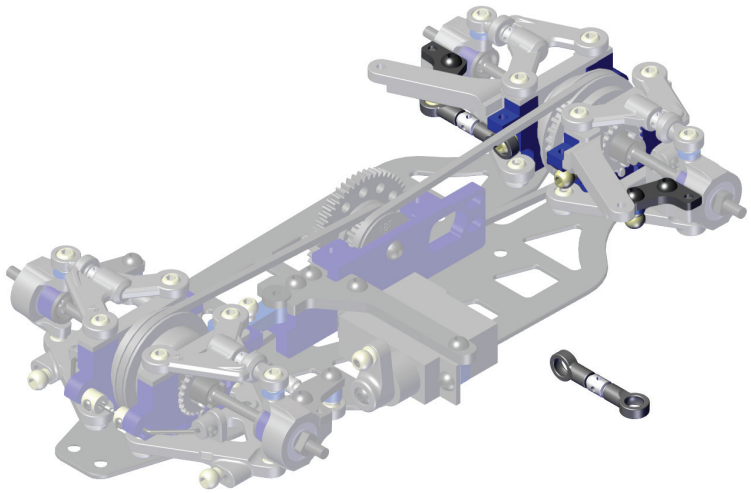


Note:
Notch indicates left hand thread. Install notch on left side of car.

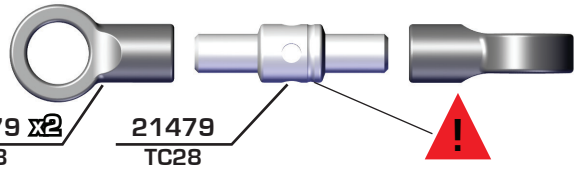
Note:
Pinch ballcups on pivot ball with pliers lightly if tight.



Bag 6 - Step 2



Build Left and Right Side

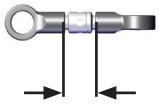


21479 x2
TC28
Rod End

21479
TC28
Turnbuckle
14mm

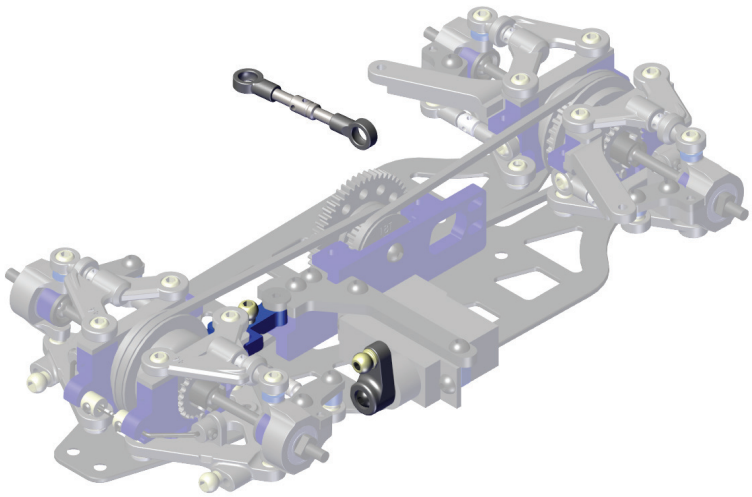
Note:
Notch indicates left hand thread. Install notch on left side of car.

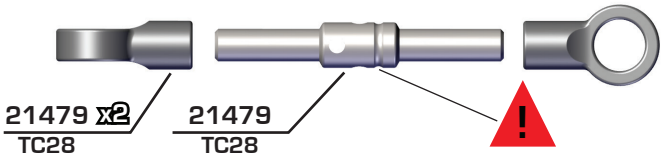
Note:
Pinch ballcups on pivot ball with pliers lightly if tight.



4mm

Bag 6 - Step 3



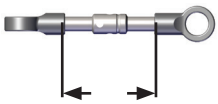


21479 x2
TC28
Rod End

21479
TC28
Turnbuckle
18mm

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

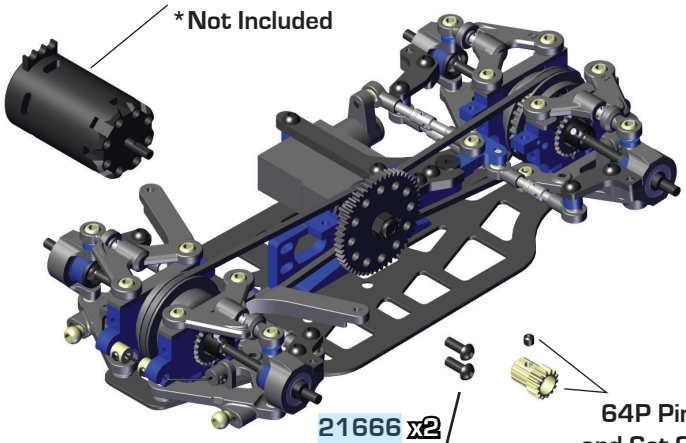
Note:
Pinch ballcups on pivot ball with pliers lightly if tight.



12.75mm

Bag 6 - Step 4

Motor
*Not Included



21666 x2
2x5mm
BHCS

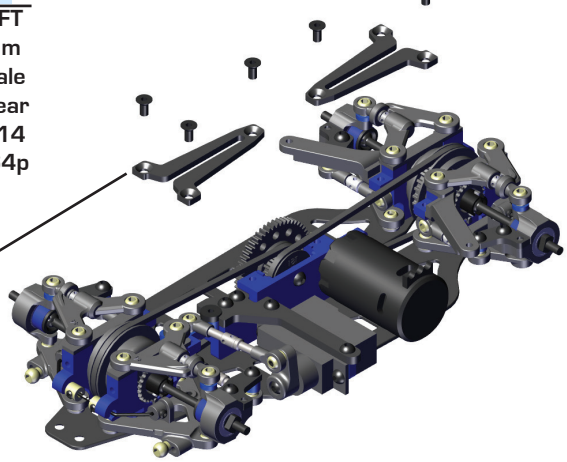
64P Pinion
and Set Screw
*Not Included

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

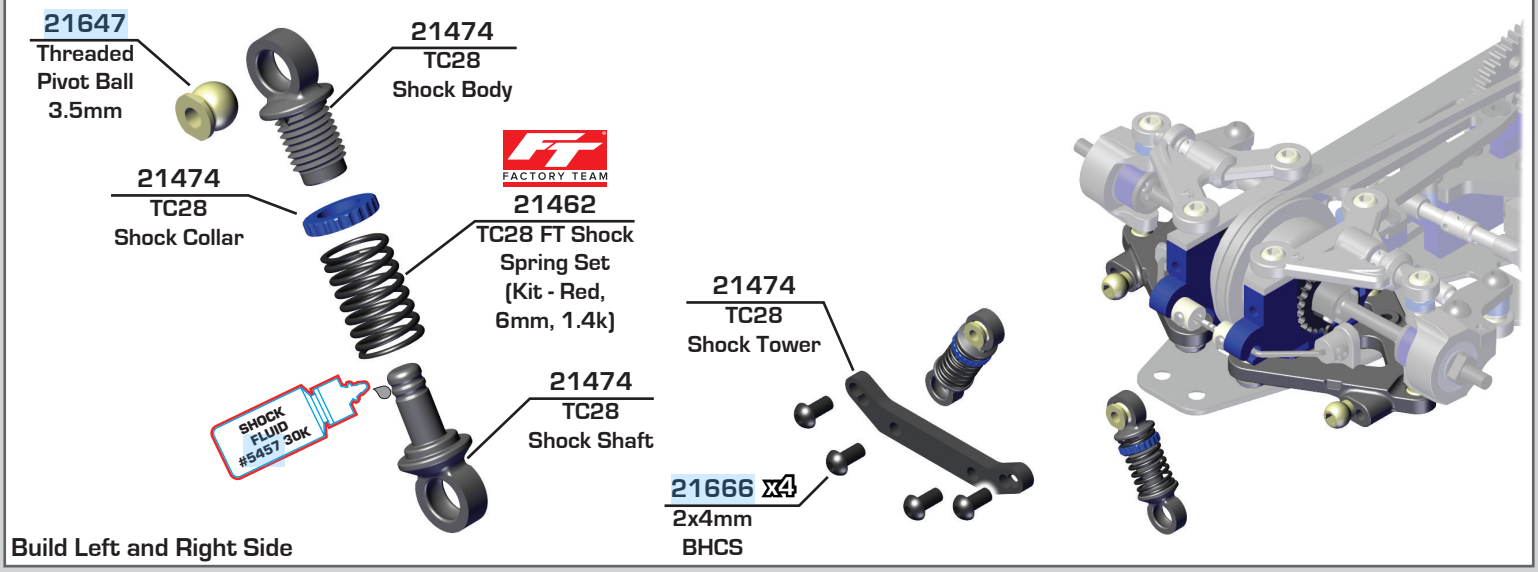
FACTORY TEAM
21691
RC28R FT
Aluminum
1:28 Scale
Pinion Gear
Set, 12-14
Tooth - 64p

21667 x6
2x4mm
FHCS

21483 x2
TC28
Top Deck

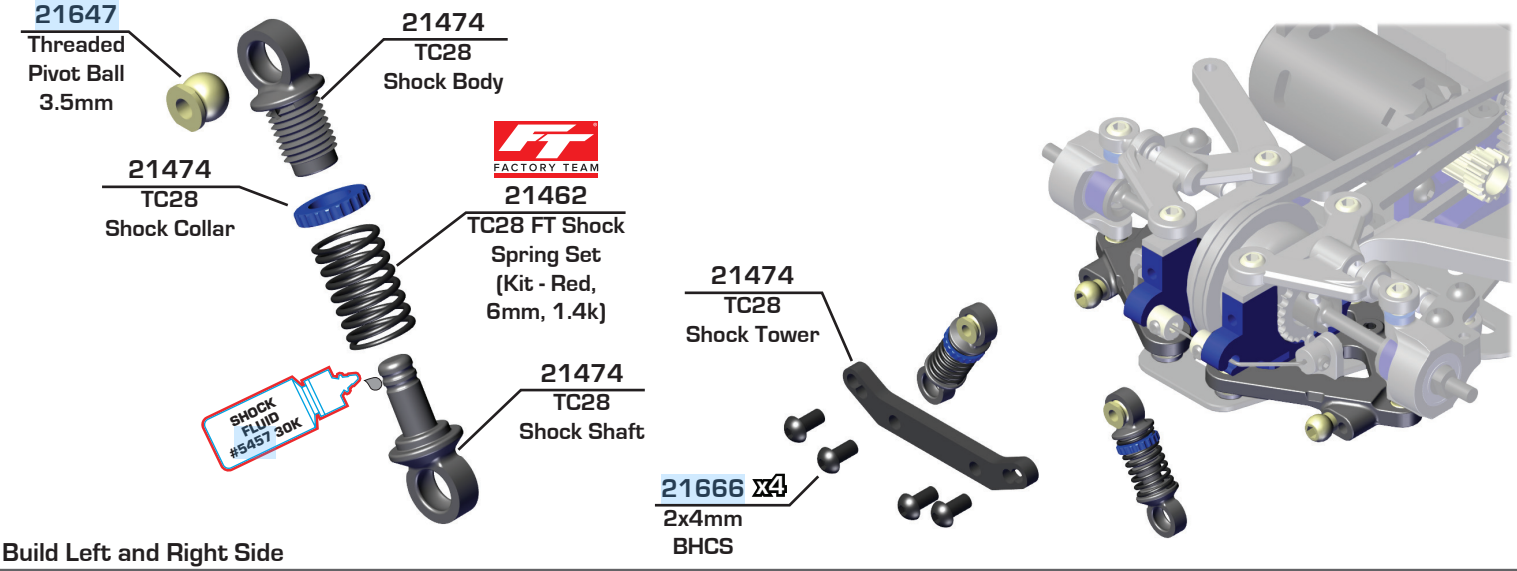


Bag 7 - Step 1



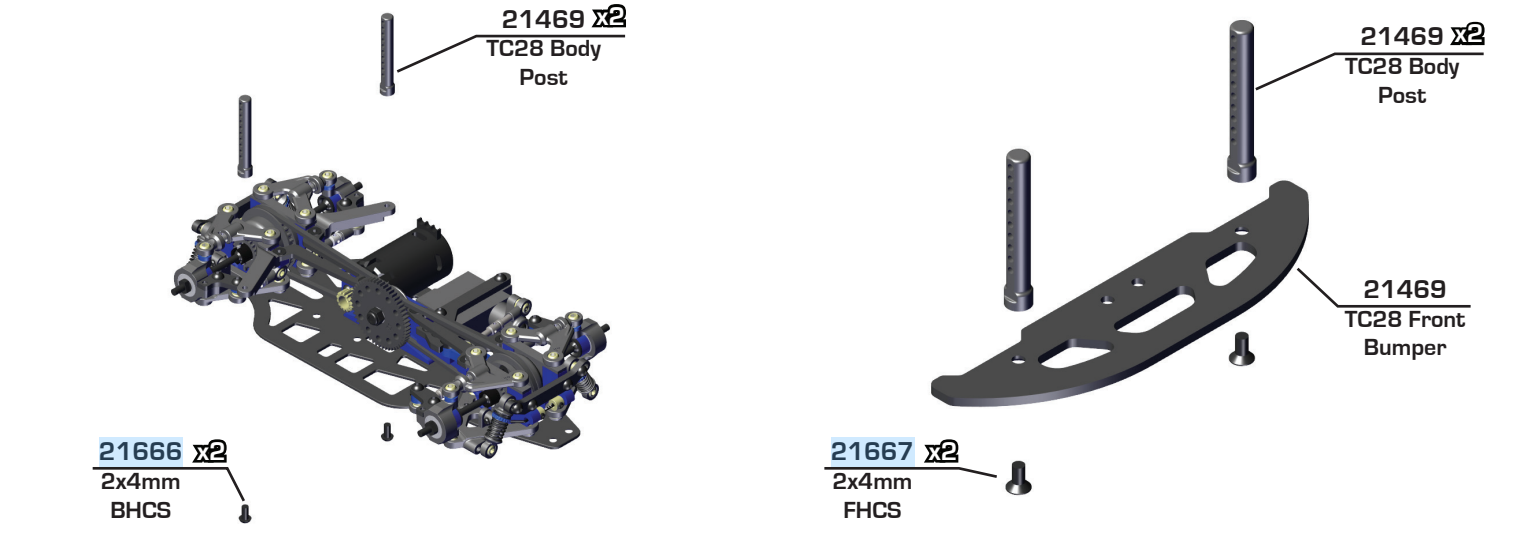
Build Left and Right Side

Bag 7 - Step 2

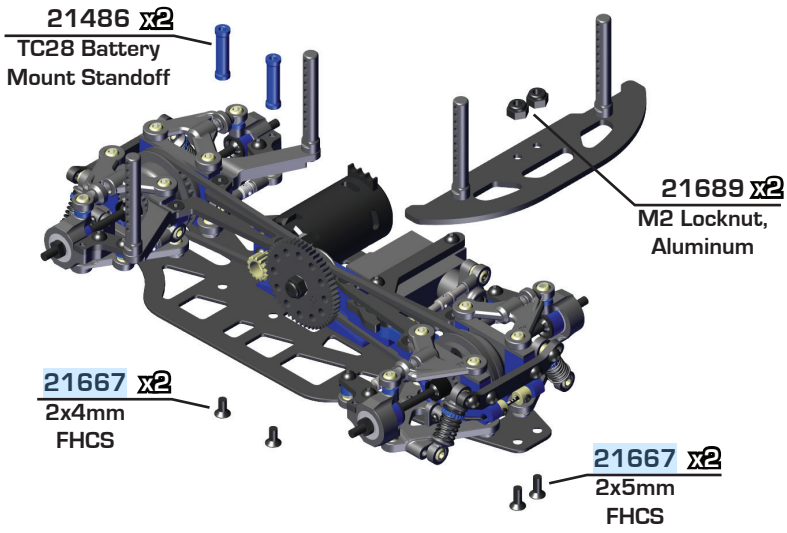


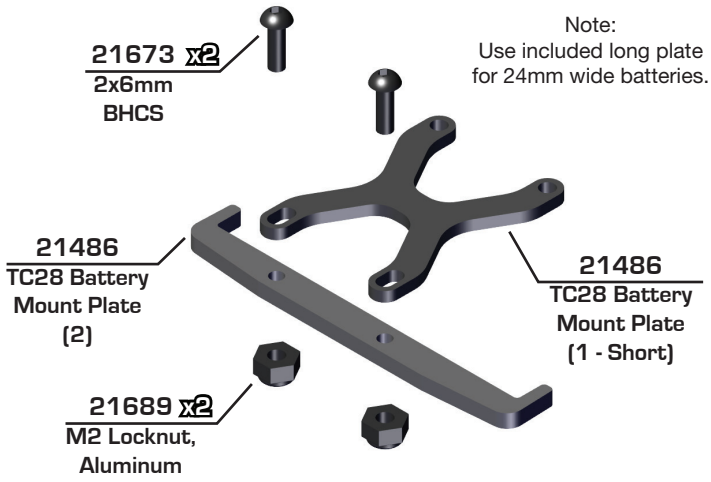
Build Left and Right Side

Bag 8 - Step 1



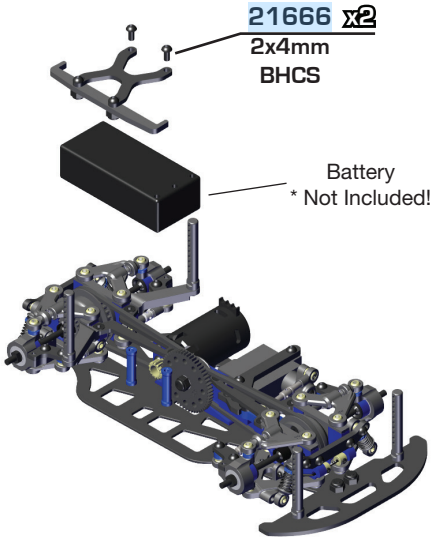
Bag 8 - Step 2

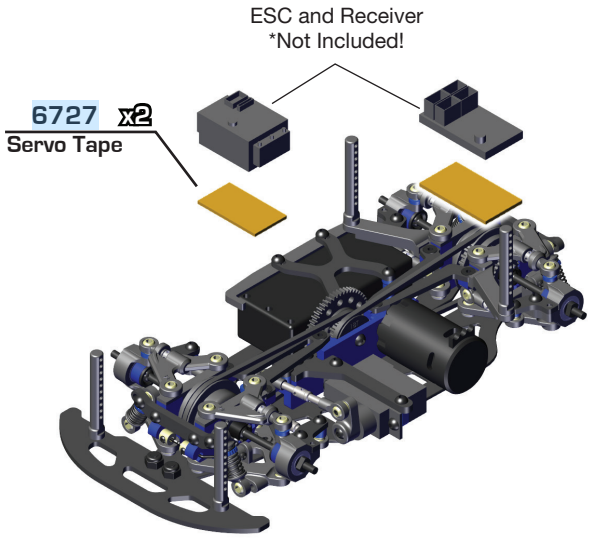




Note:
Use included long plate for 24mm wide batteries.

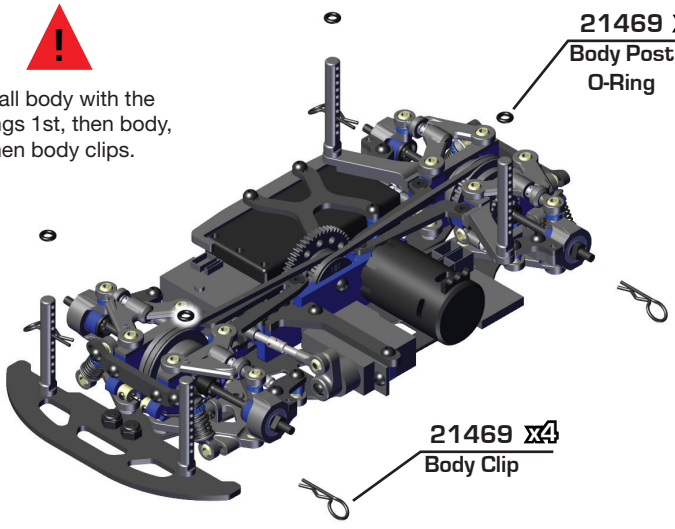
Bag 8 - Step 3

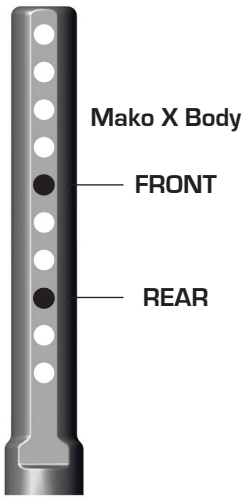




Bag 8 - Step 4

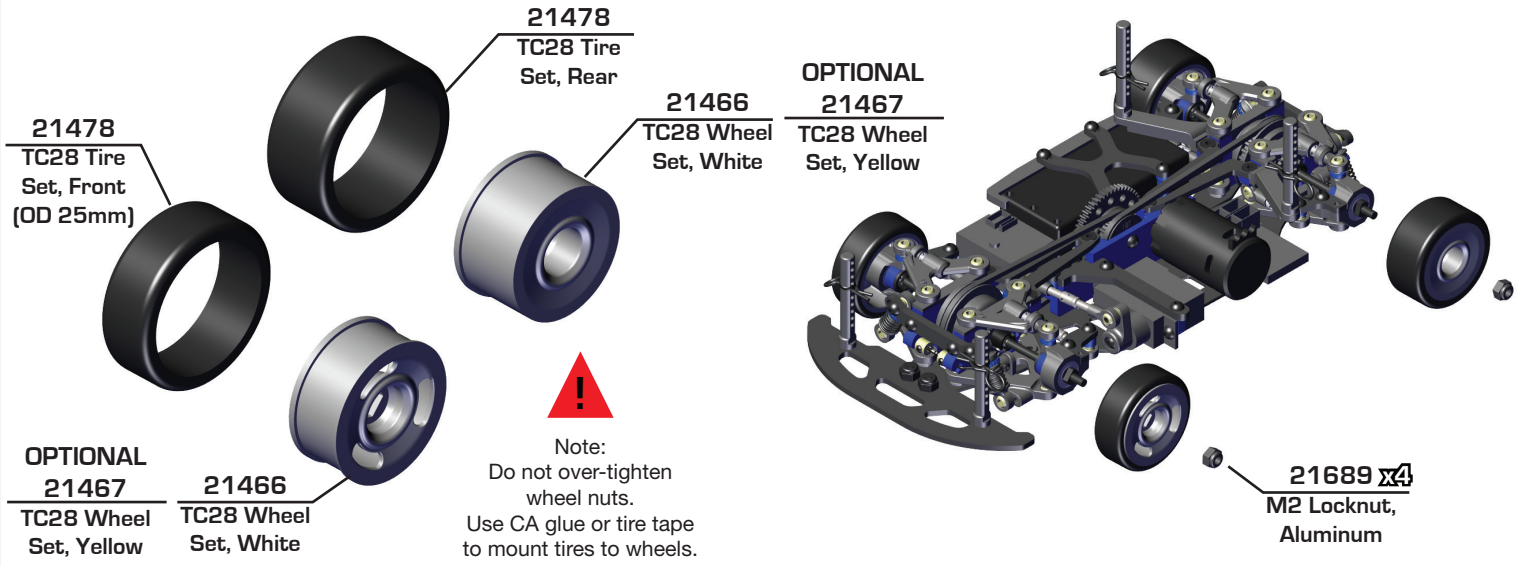
Install body with the O-Rings 1st, then body, then body clips.





Note:
Adjust the body height depending on body used.

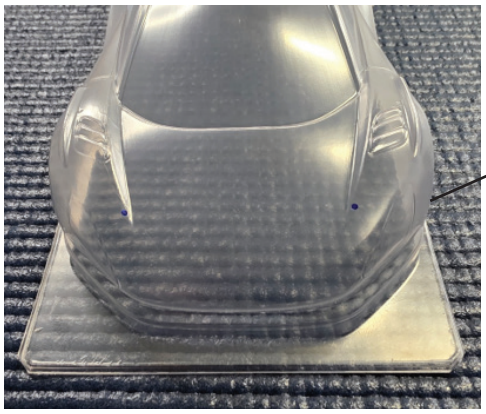
Bag Tires / Wheels - Step 1



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

Body - 1

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



21695
Radbody
Mako X,
Clear Body

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



Body - 2

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

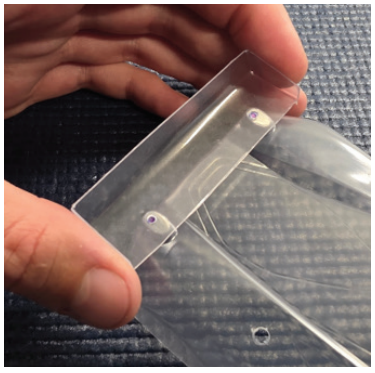
Paint mask and body decals included.
Trim wheel wells to clear wheel and tires as needed.



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.



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