



Thank you!



Thank you for purchasing this Team Velocity product. We appreciate your support. We hope you enjoy building and driving this car as much as we have enjoyed making it. For comments, questions, issues, or mispacked parts, please email support@teamvelocityrc.com

General Build Notes



Your new kit will have general bags that will be used throughout the build, these bags do not have header cards, only labels. It is recommended to open them and have them set to the side for when they are needed. The main bags are labeled sequentially and have header cards.

Tools



Required Tools

- 2mm Hex Driver
- 1.5mm Hex Driver
- 7mm Nut Driver
- 5mm Nut Driver
- Pliers
- Side Cutters
- Lexan Scissors
- Body Reamer

Recommended Additional Tools

- Digital Calipers
- Shock shaft pliers
- Dremel - Sanding Drum
- Blue Thread lock

Needed to Complete



- 18mm Servo Horn
- 32.5 or 35wt shock oil
- Pinion gear
- Electronics (shorty) servo and lipo, motor, radio, receiver, speed control
- Wheels/Tires

Contact Us

support@teamvelocityrc.com

Turnbuckle - Step 1



**48mm Turnbuckle
VEL-22300**

**VS2 Ballcup
VEL-60806**

**(Optional)
Anti-wear Grease
VEL-75001**

Team Tip:

Add a small amount of anti-wear grease to the ends of the threads before assembling for smoother adjustments

Turnbuckle - Step 2



! Note the groove in the turnbuckles goes to the left of the car

Adjusting Turnbuckles forward will lengthen
So remember: Out-Front / In-Back

Left Front Camber

Servo

Right Front Camber

Left Steering

Right Steering

Left Rear Camber

Right Rear Camber

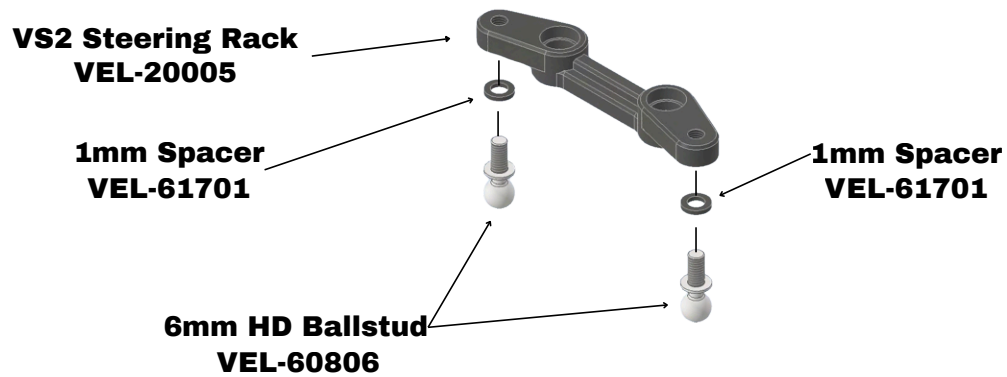
Note - Orientation of angled ballcup

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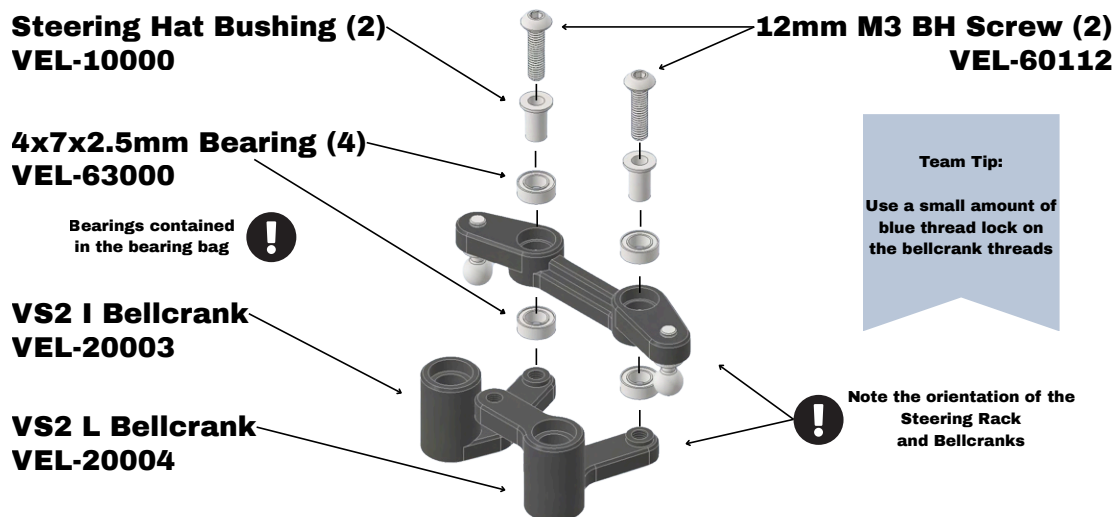
Team Tip:

The measurements are only an approximate starting place, camber should still be set with a gauge at ride height

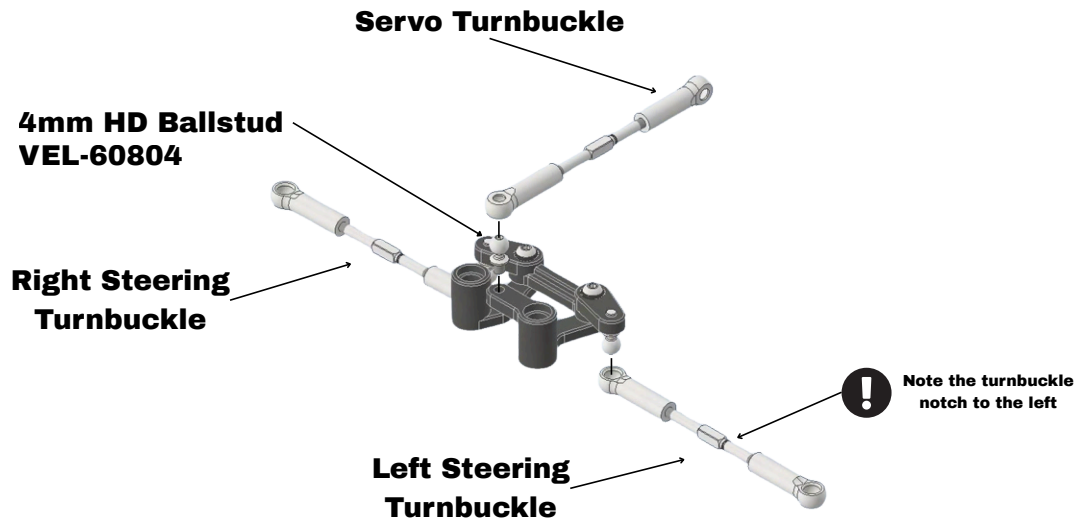
Bag A - Step 1



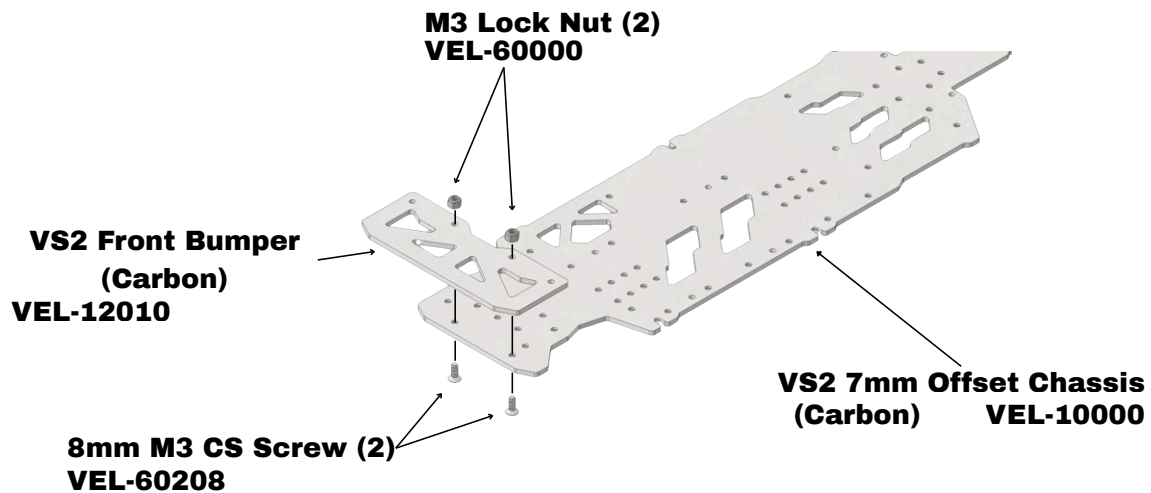
Bag A - Step 2



Bag A - Step 3



Bag A - Step 4

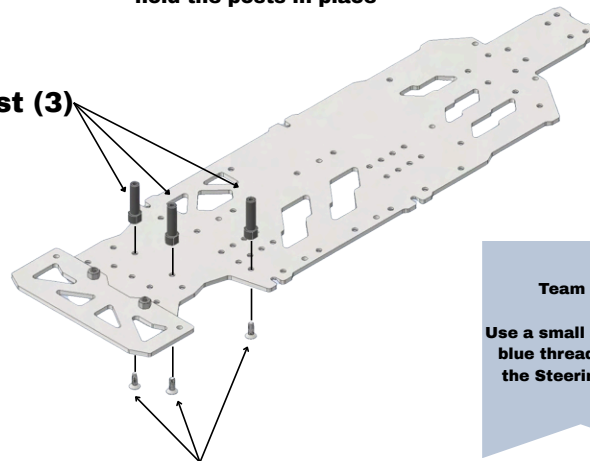


Bag A - Step 5



Use the larger side of the turnbuckle wrench to hold the posts in place

VS2 Steering Post (3)
VEL-20002



8mm M3 CS Screws (3)
VEL-60208

Team Tip:

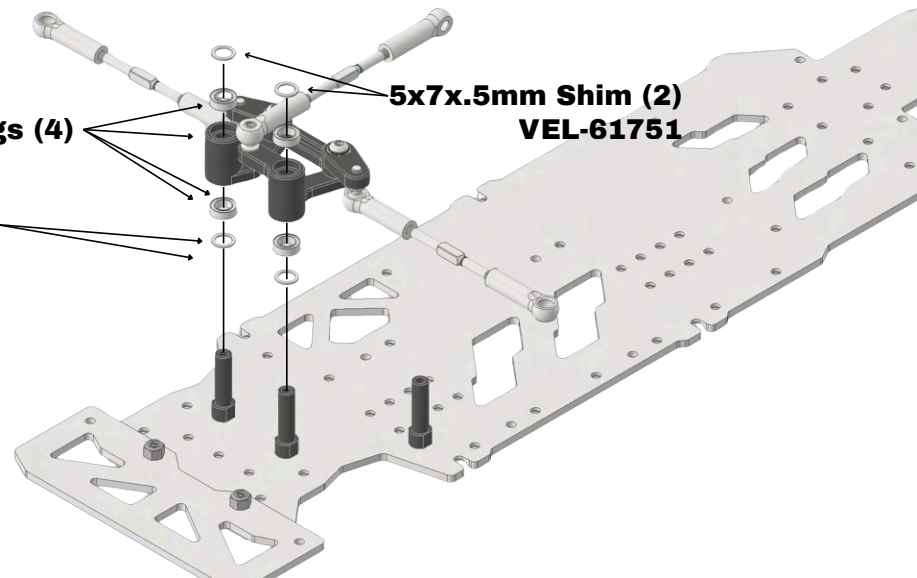
Use a small amount of blue thread lock on the Steering Posts

Bag A - Step 6



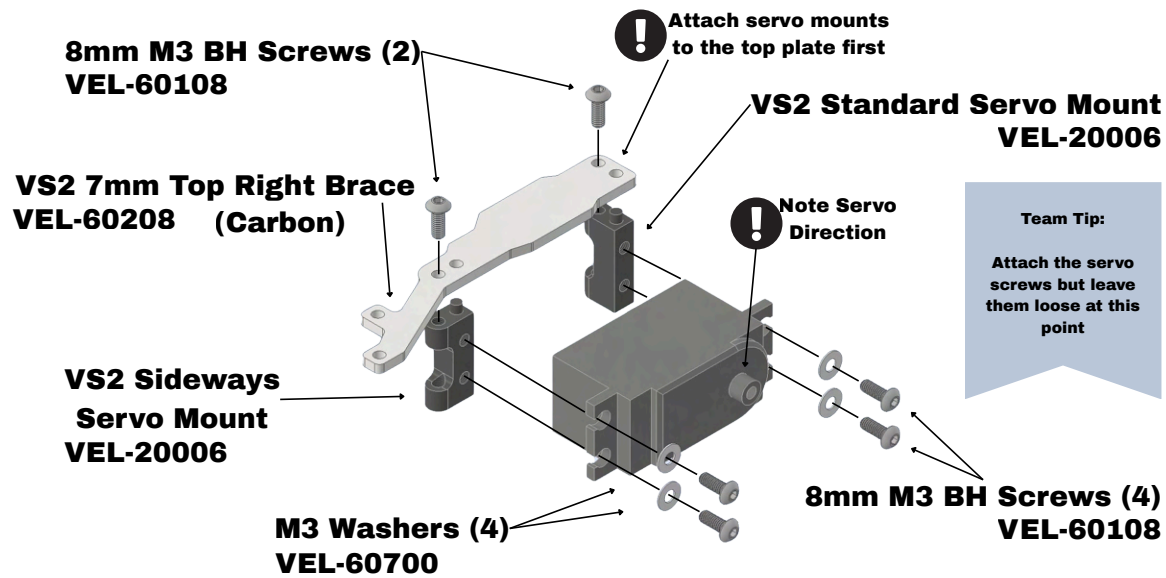
5x8x2.5mm Bearings (4)
VEL-63000

5x7x.5mm Shim (2)
VEL-61751

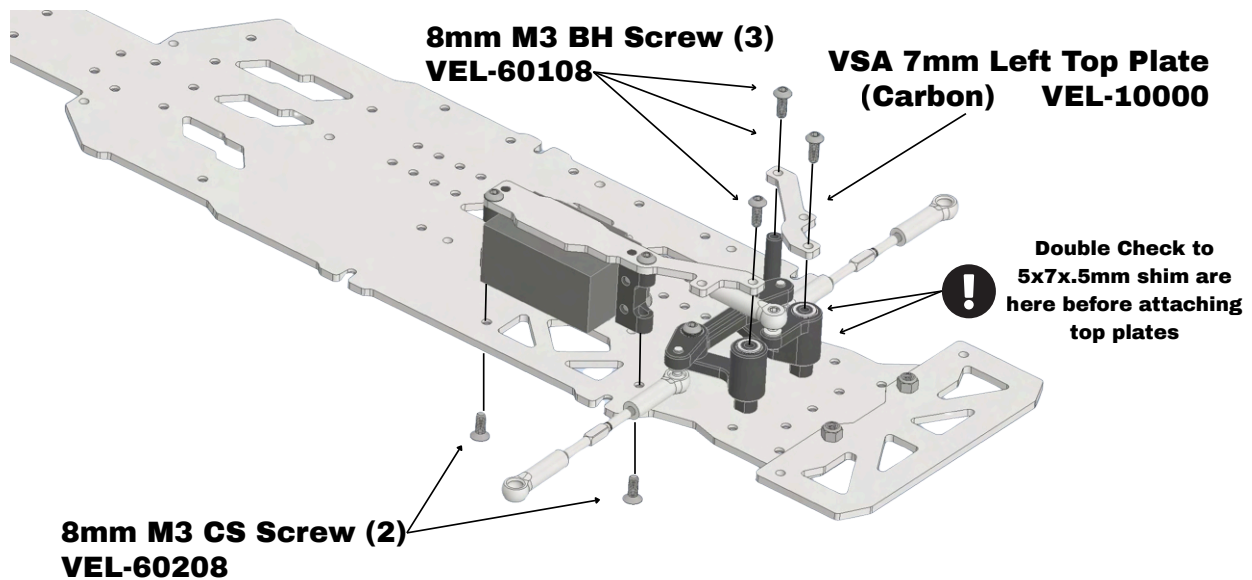


5x7x.5mm Shim (2)
VEL-61751

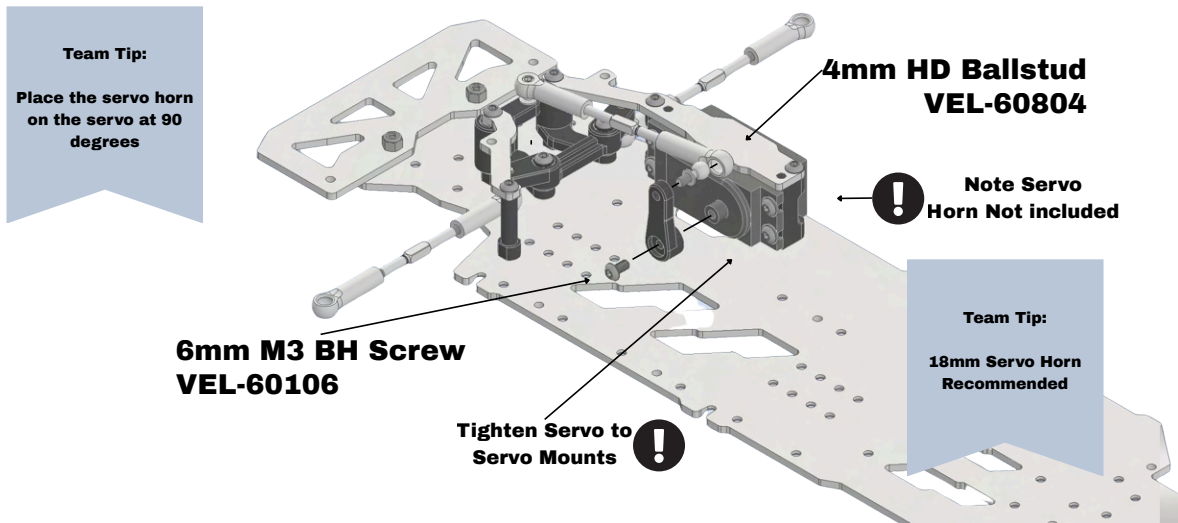
Bag A - Step 7



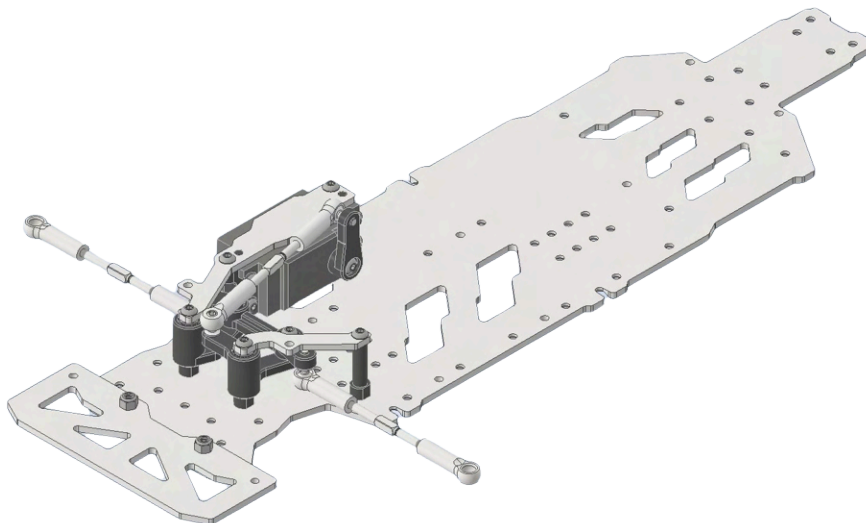
Bag A - Step 8



Bag A - Step 9



Bag A - Complete



Bag B - Step 1



M3 Nut (2)
VEL-60002

**! Note Orientation for
left and right side**

14mm M3 BH Screws (2)
VEL-60114

**VS2 Front Shock
Arm Mount - Gull (2)**
VEL-20006 (Carbon)

M3 Nut (2)
VEL-60002

Bag B - Step 2



**! Right Arm Shown, build
left arm to mirror**

12mm M3 Set Screw
VEL-60512

**! Thread set screw in to
capture arm shock
mount**

12mm M3 BH Screw
VEL-60112

3-48 x 1/16 BH Screw
VEL-60400

**! Push Arm Shock Mount
into arm from the
bottom**

Bag B - Step 3



VS2 Front Bulkhead 25 deg (Right) VEL-20000

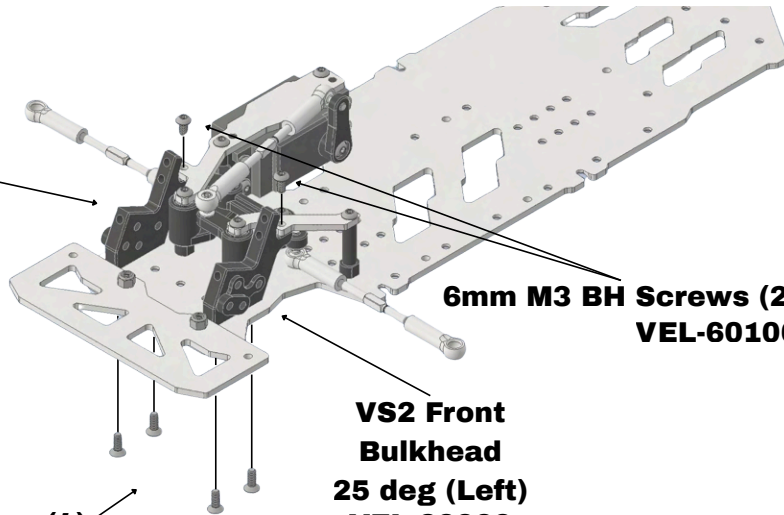
Note Bulkhead Orientation for left and right side



6mm M3 BH Screws (2) VEL-60106

8mm M3 CS Screw (4) VEL-60208

VS2 Front Bulkhead 25 deg (Left) VEL-20000



Bag B - Step 4

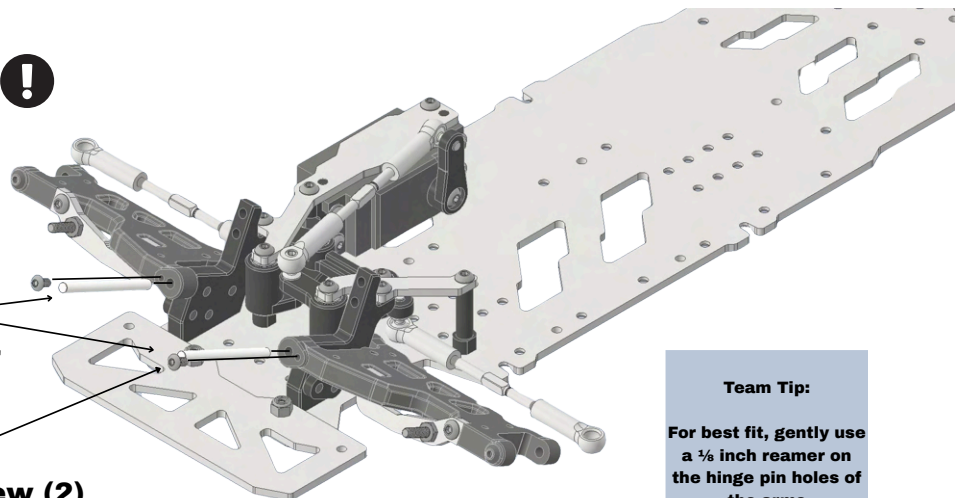


Trim any flashing around the hinge pin holes of the arm to ensure free movement



VS2 Front Inner Hinge Pin (2) VEL-60400

3-48x3/16 BH Screw (2) VEL-60400



Team Tip:

For best fit, gently use a 1/8 inch reamer on the hinge pin holes of the arms

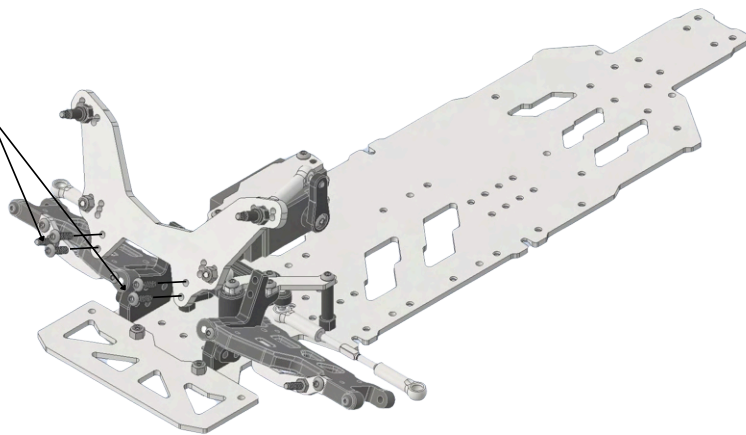
Bag B - Step 5



Bag B - Step 6



10mm M3 BH Screw (4)
VEL-60110



Bag B Complete! 

Bag C - Step 1



**VS2 Front Inline
Spindle (Alum)
VEL-20000**

! Build 2x

**VS2 4/5 Front Axle
VEL-20008**

**M3 Washer
VEL-60700**

**.5mm Axle Shim (2)
VEL-61751**

**6mm M3 BH Screw
VEL-60106**

**10x5x4mm Bearing (2)
VEL-63000**

Bag C - Step 2



**M3 Lock Nut
VEL-60000**

**Right Side Shown
Build Left Side Mirrored**

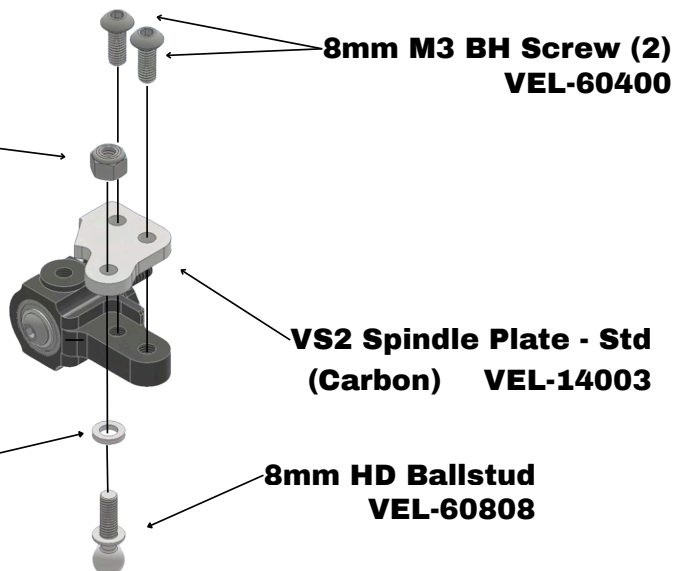


**8mm M3 BH Screw (2)
VEL-60400**

**VS2 Spindle Plate - Std
(Carbon) VEL-14003**

**1mm M3 Spacer
VEL-61701**

**8mm HD Ballstud
VEL-60808**



Bag C - Step 3



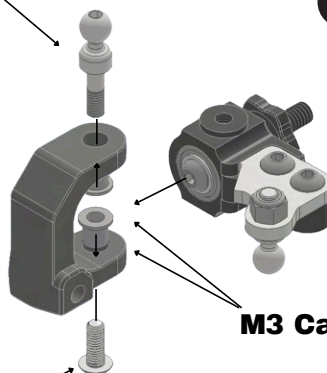
HD Top Caster Block Ballstud
VEL-60900

0 deg Caster Block
VEL-7300CW

8mm M3 BH Screw
VEL-60108

M3 Caster Bushing (2)
VEL-22101

! Right Side Shown
Build Left Mirrored



Bag C - Step 4



3-84 x 3/16 BH Screw
VEL-60400

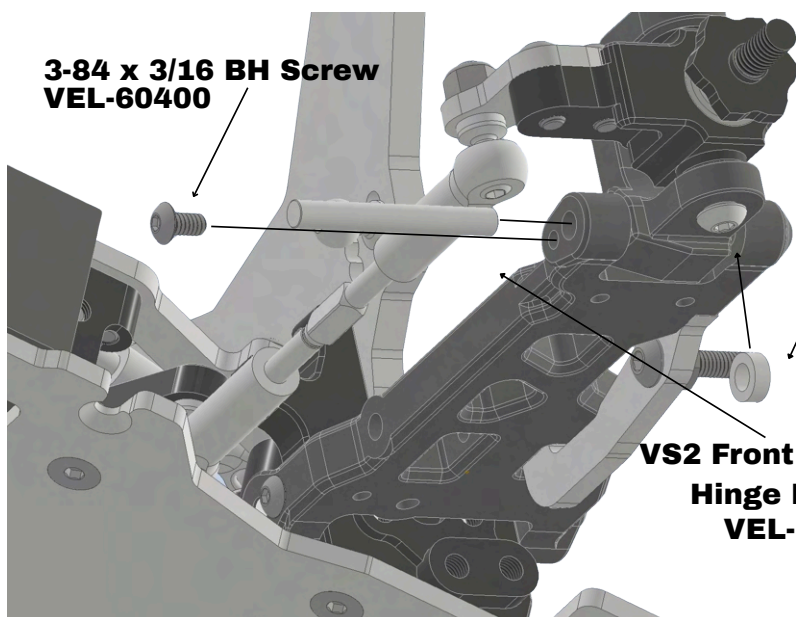
! Right Side
Shown - Repeat
on Left Side

Caster Block Spacer
VEL-62000

VS2 Front Outer
Hinge Pin
VEL-22001

Team Tip:

For best fit, gently use
a 1/8 inch reamer on
the hinge pin holes
and a small file on the
caster block

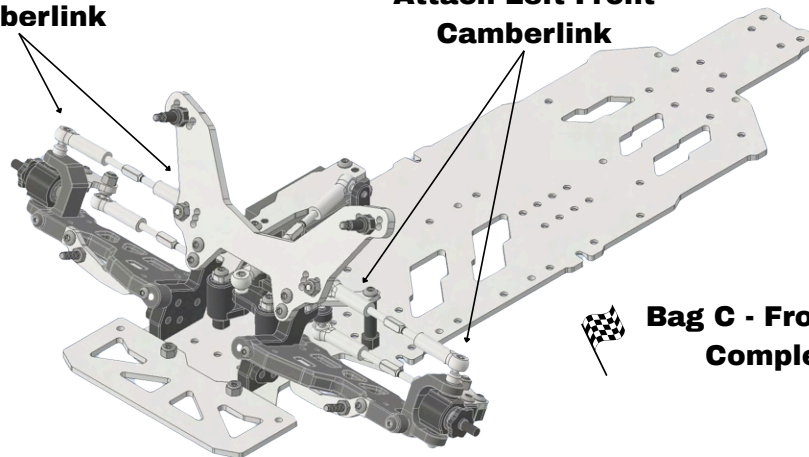


Bag C - Step 7



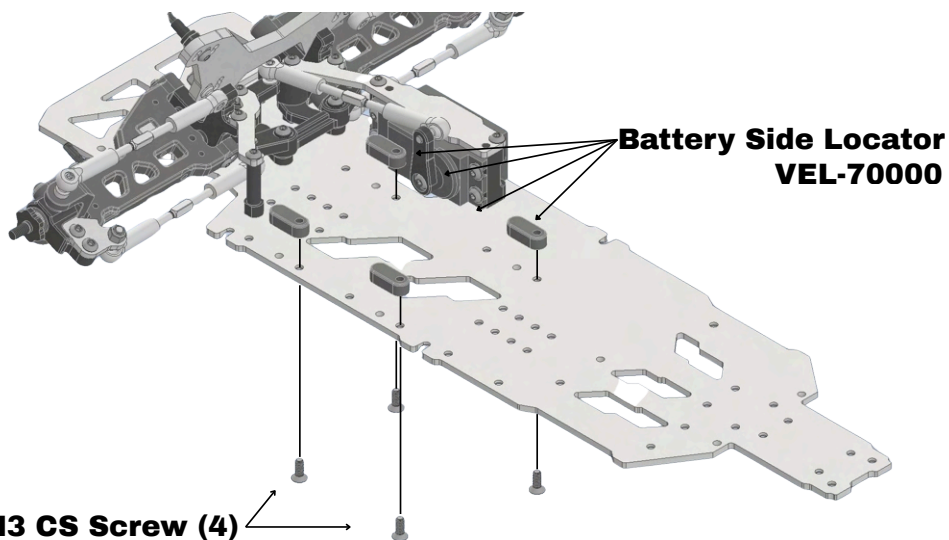
**Attach Right Front
Camberlink**

**Attach Left Front
Camberlink**



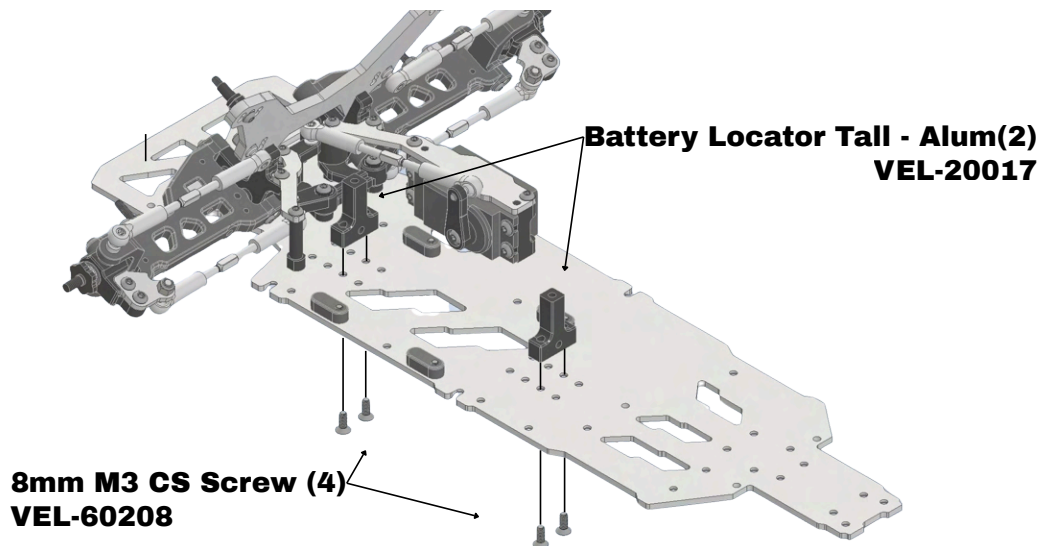
**Bag C - Front End
Complete**

Bag D - Step 1



**8mm M3 CS Screw (4)
VEL-60208**

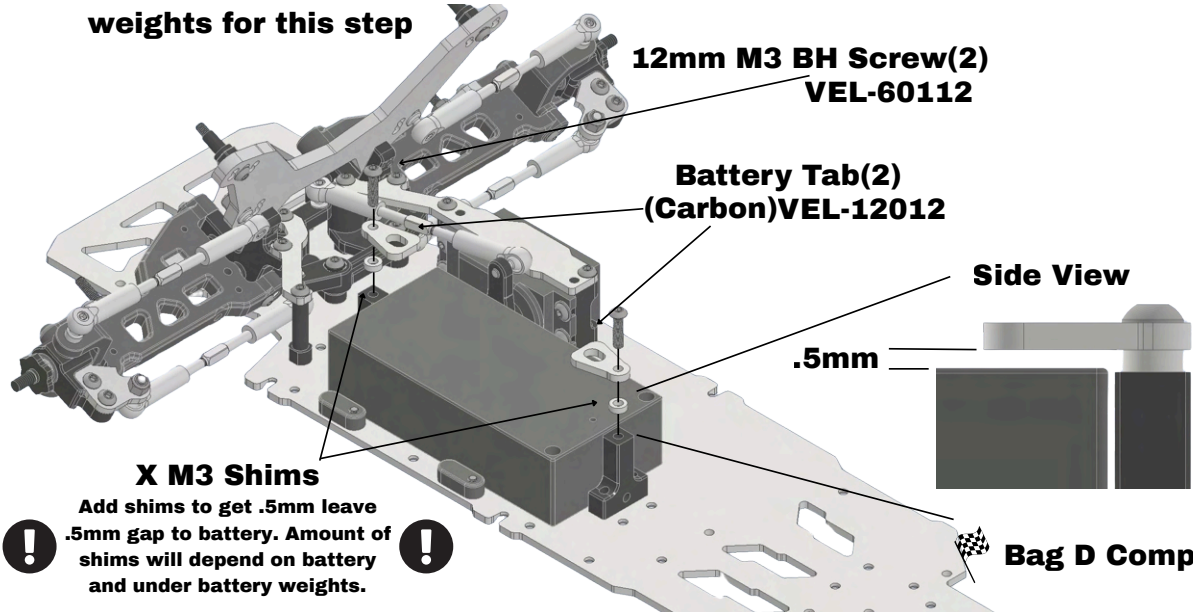
Bag D - Step 4



Bag D - Step 5



Add Battery and under battery weights for this step

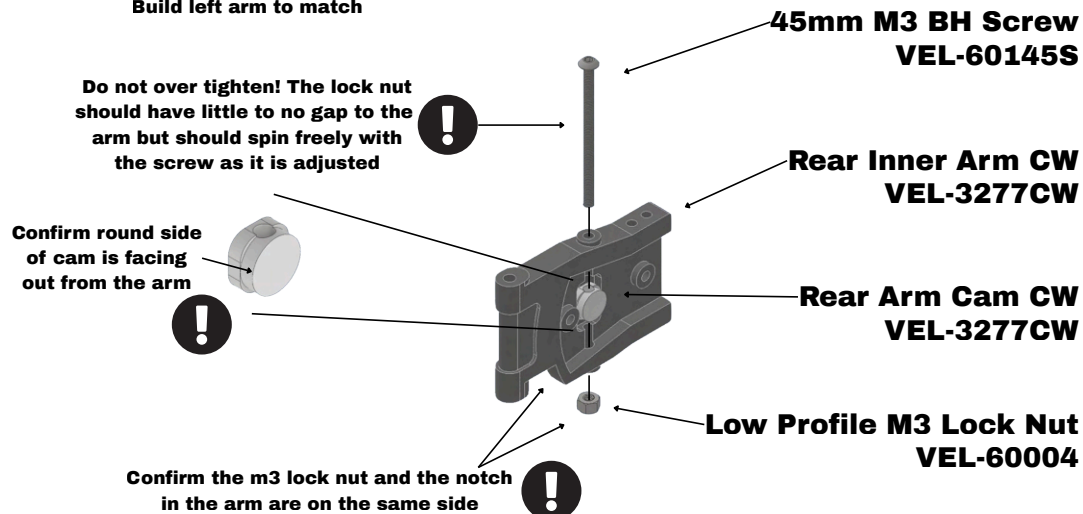


Bag E - Step 1



Bottom view of Right Rear Arm

Build left arm to match

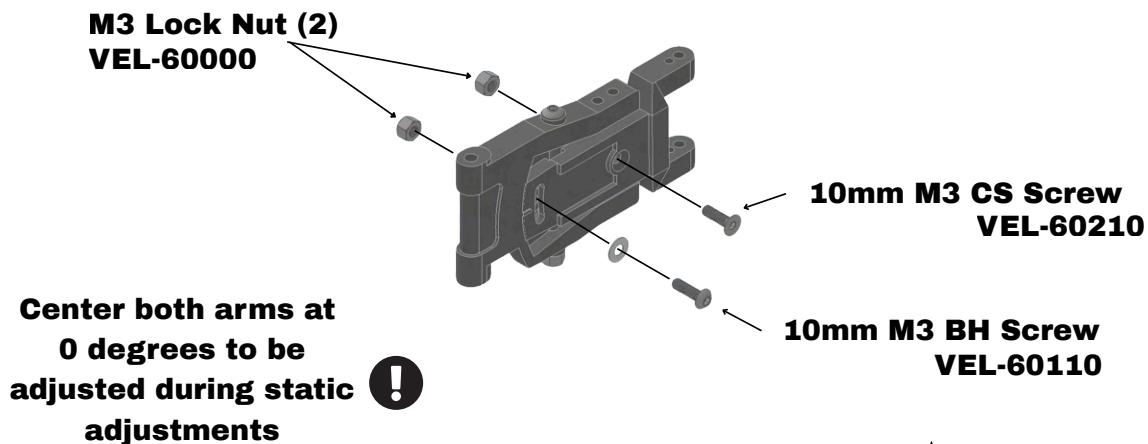


Bag E - Step 2



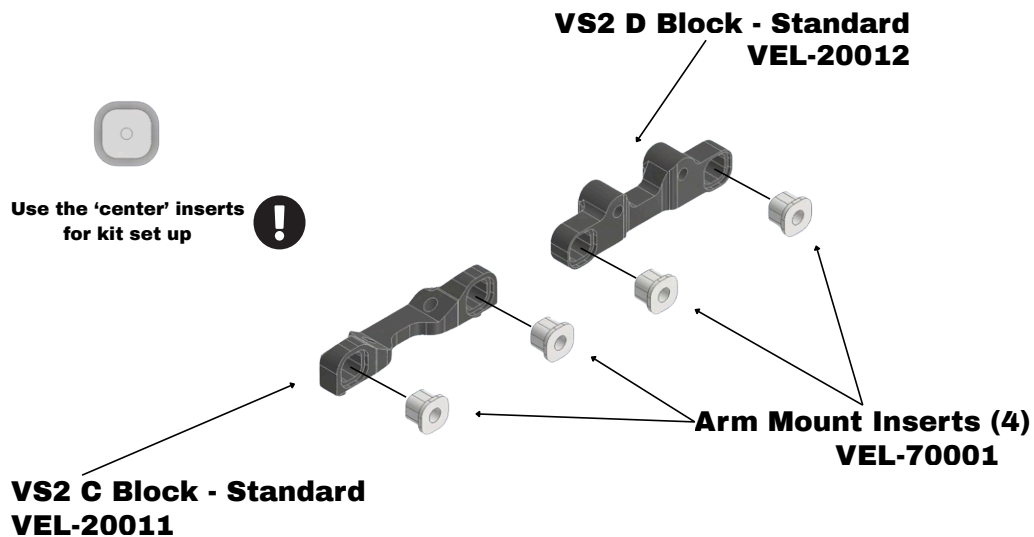
Bottom view of Right Rear Arm

Build left rear arm to match

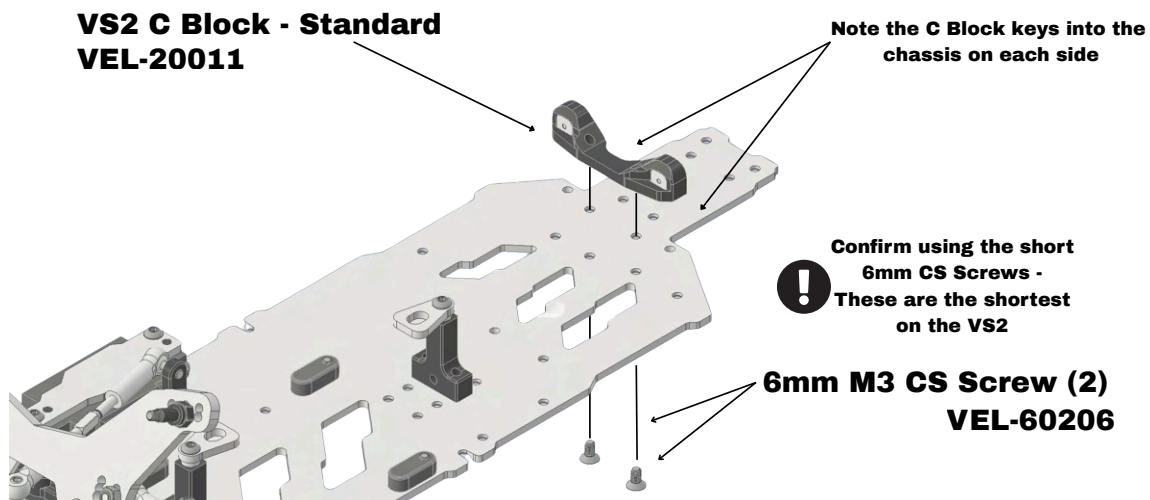


Bag E Complete

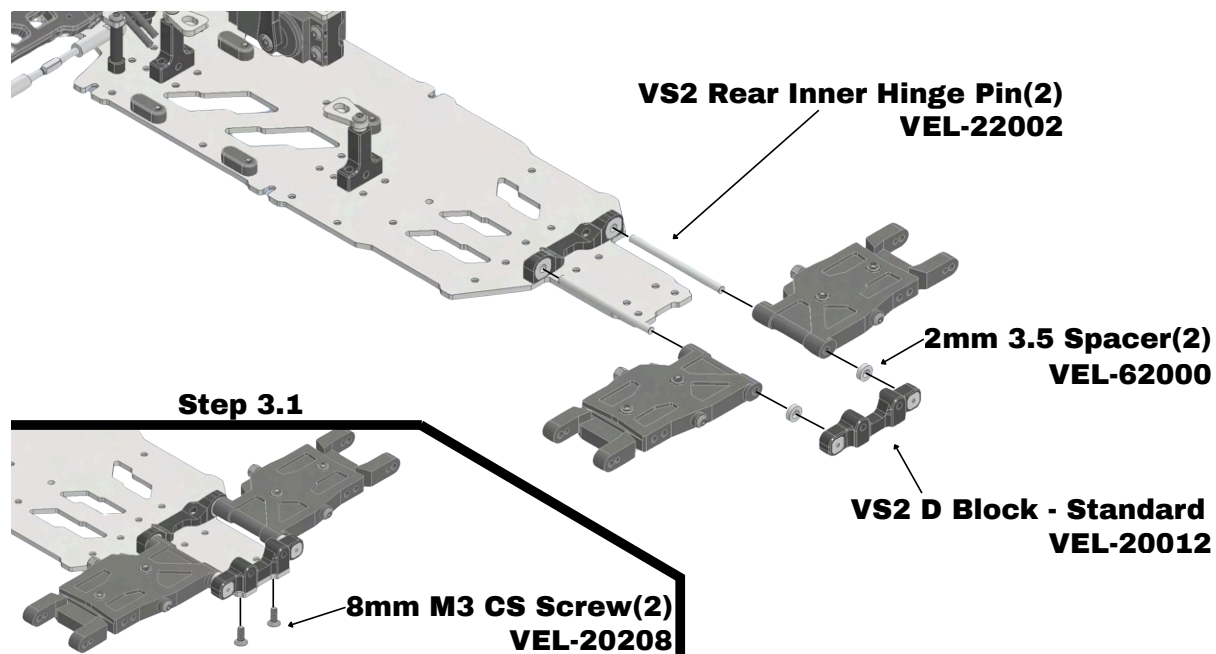
Bag F - Step 1



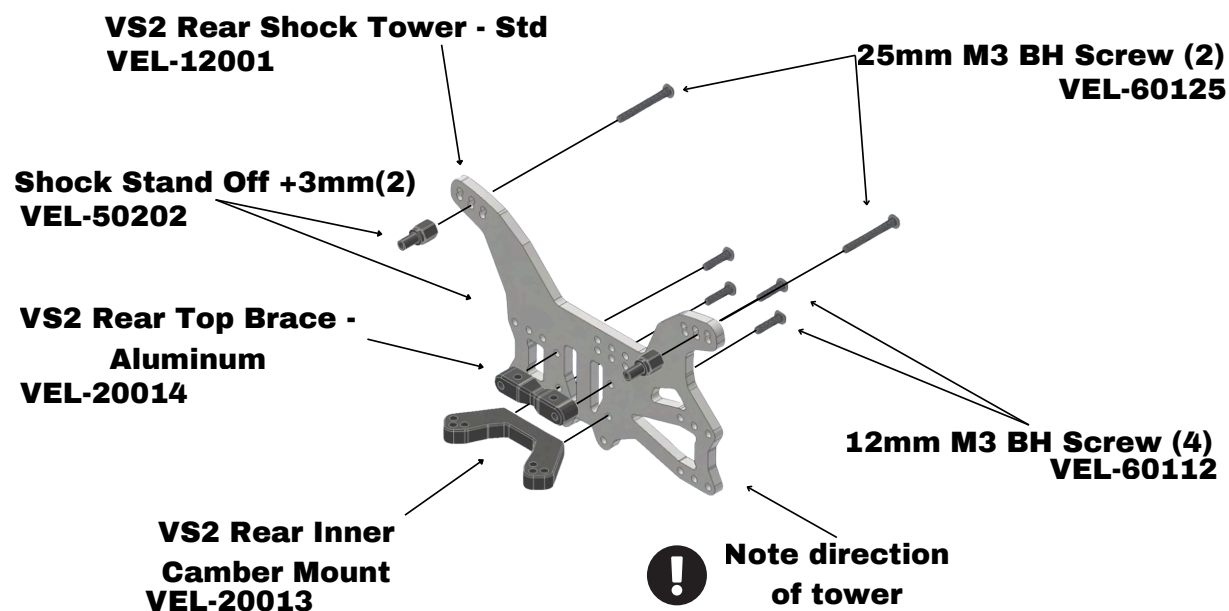
Bag F - Step 2



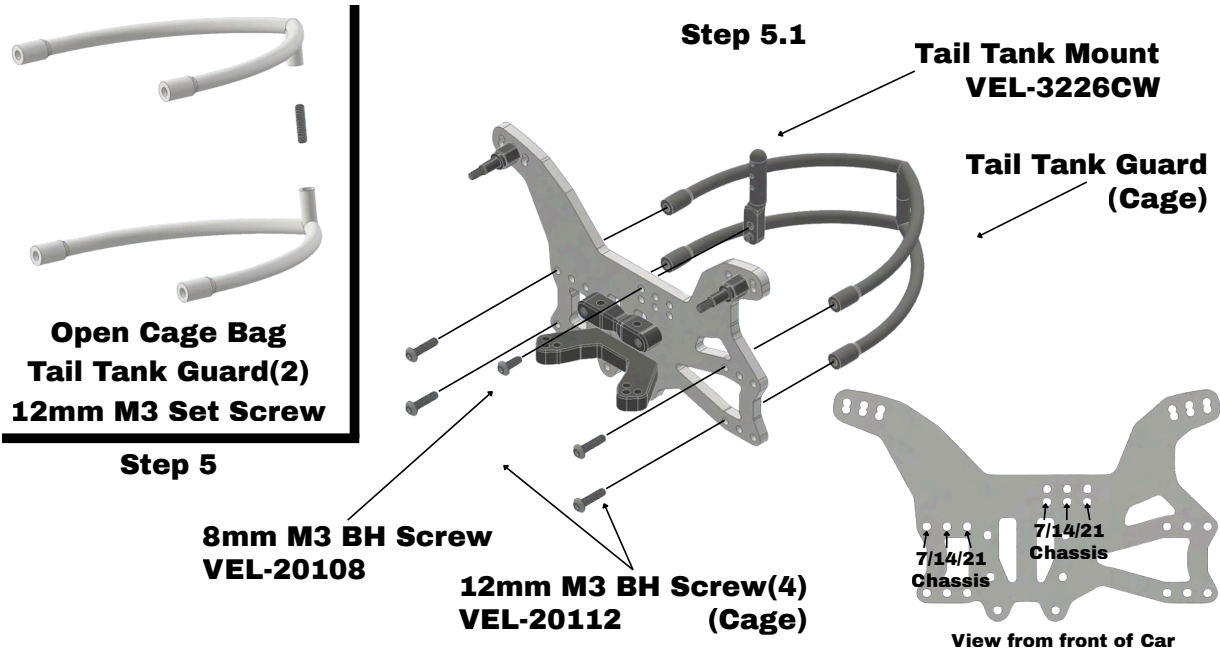
Bag F - Step 3



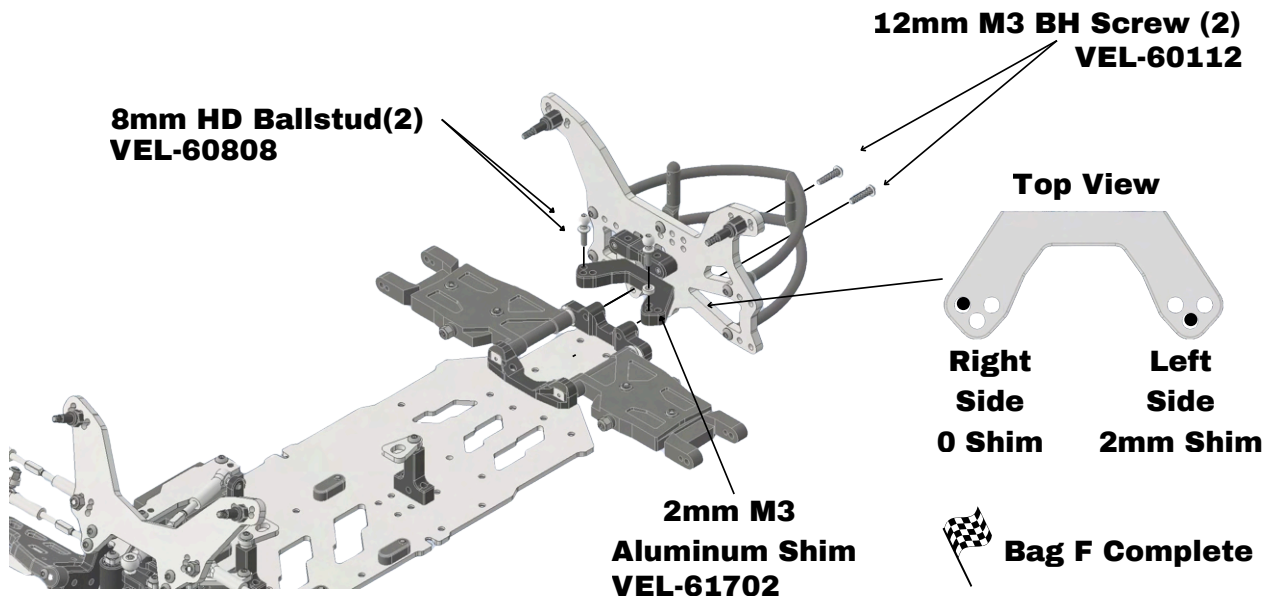
Bag F - Step 4



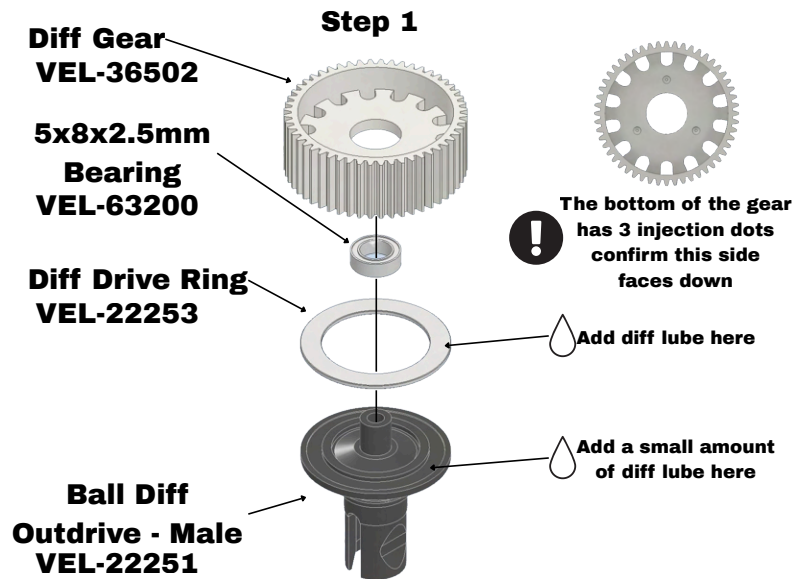
Bag F - Step 5



Bag F - Step 6

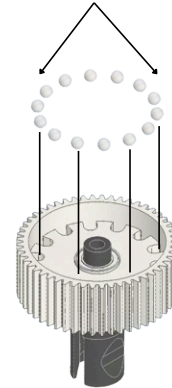


Bag G - Step 1

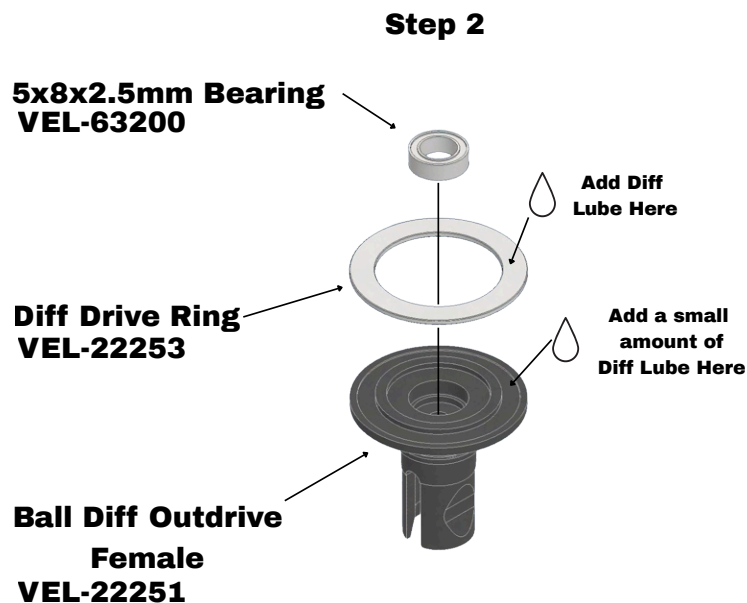


Step 1.1

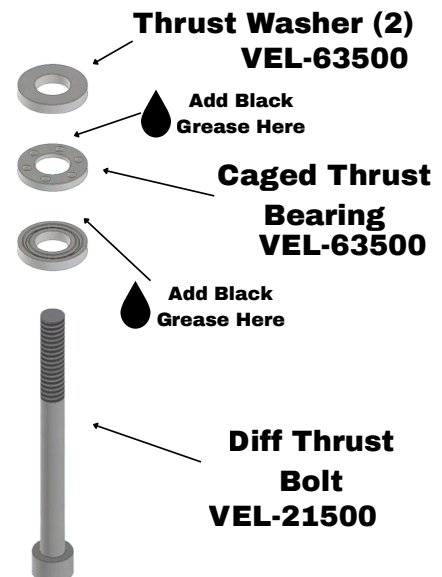
3/32 Carbide Diff Balls (14)
VEL-22254



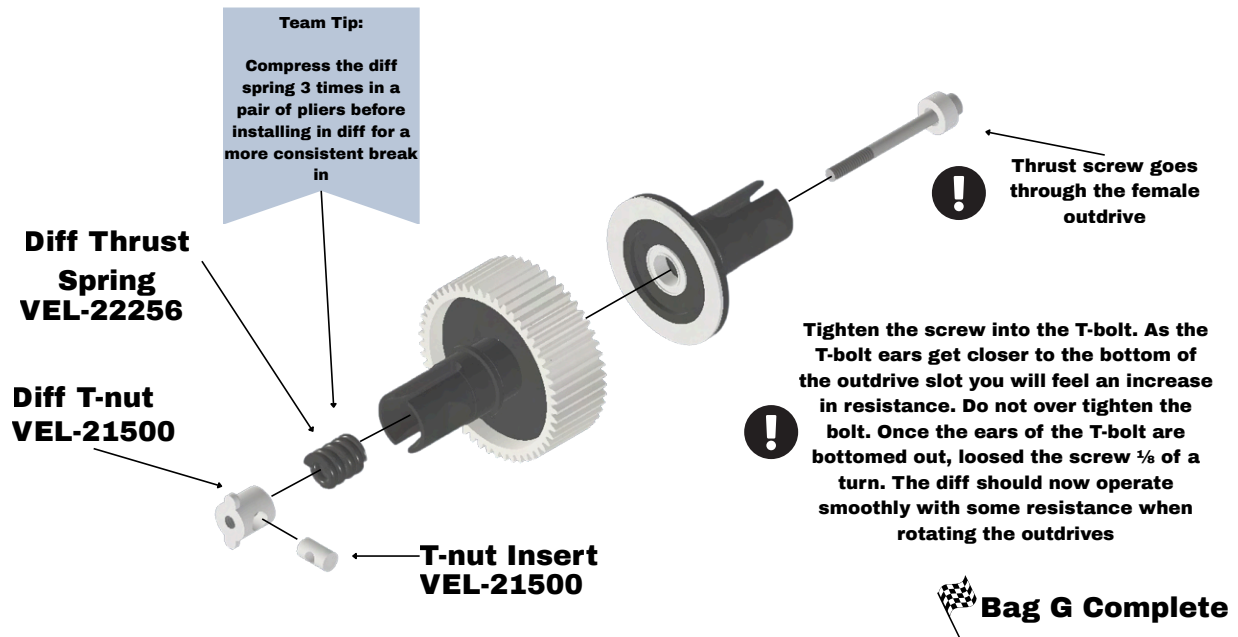
Bag F - Step 2



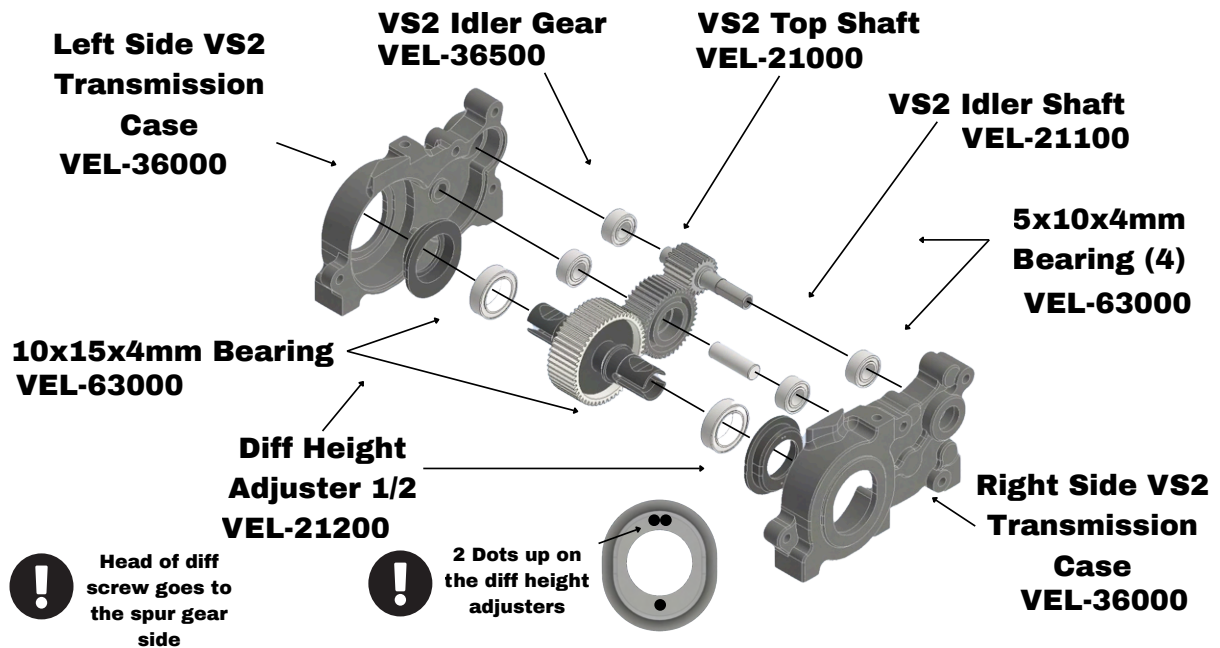
Step 2.1



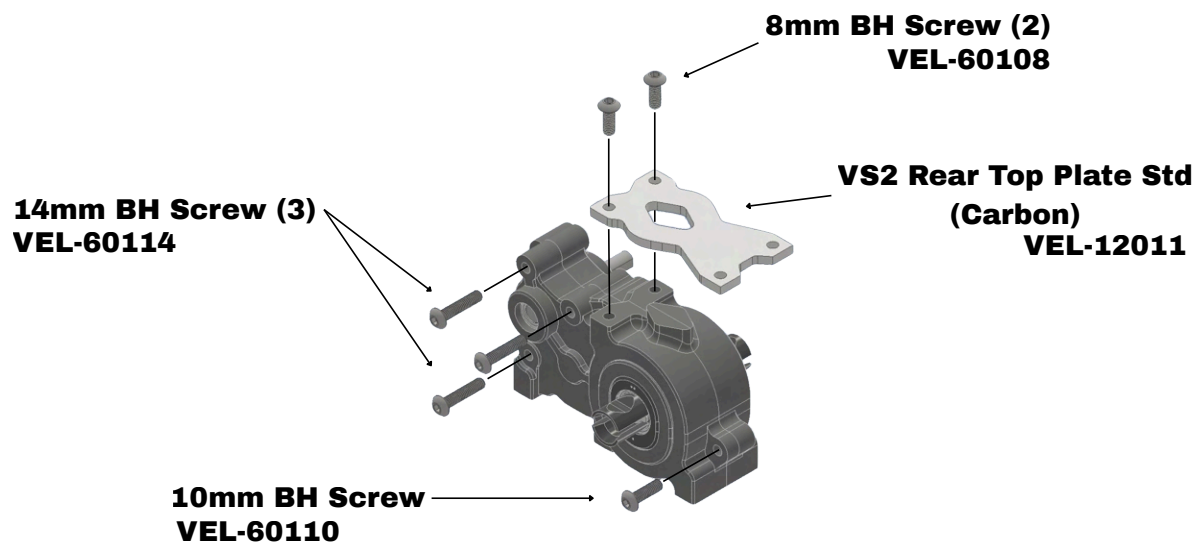
Bag G - Step 3



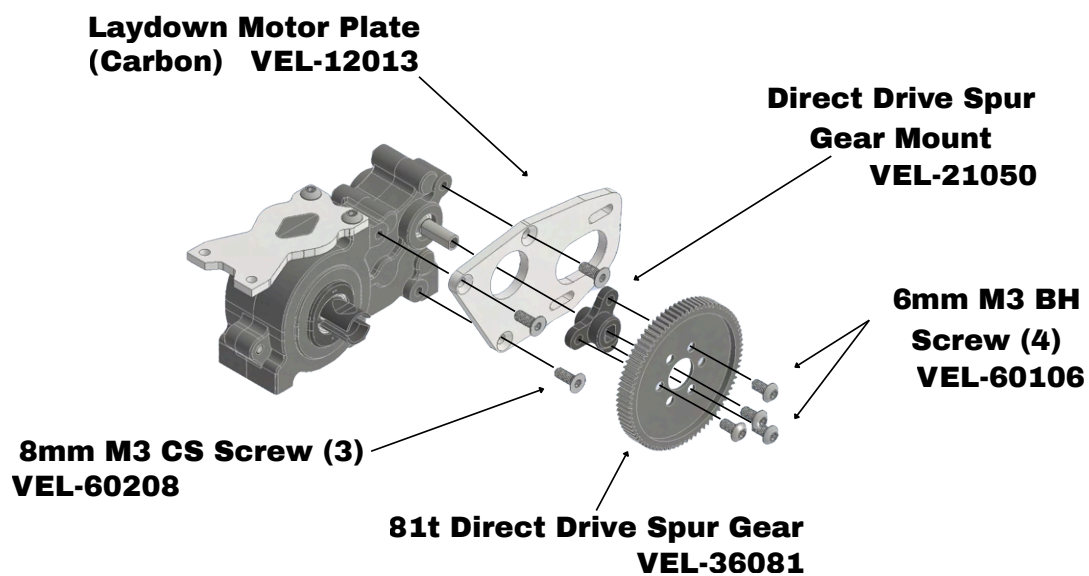
Bag H - Step 1



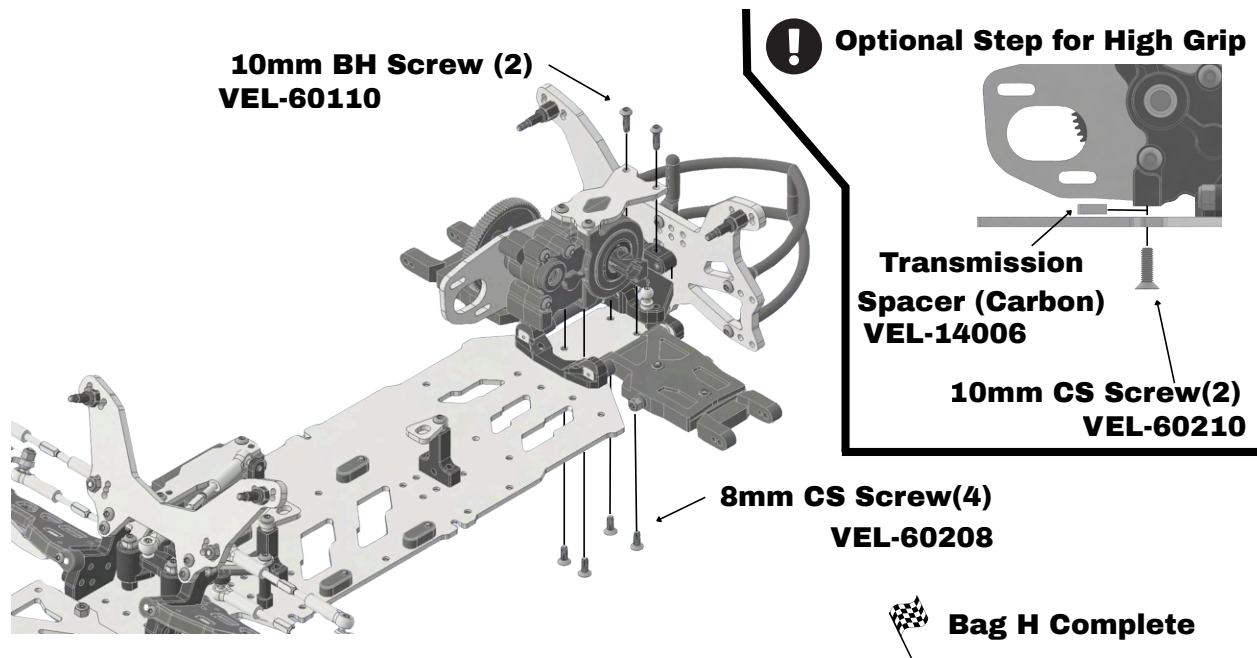
Bag H - Step 2



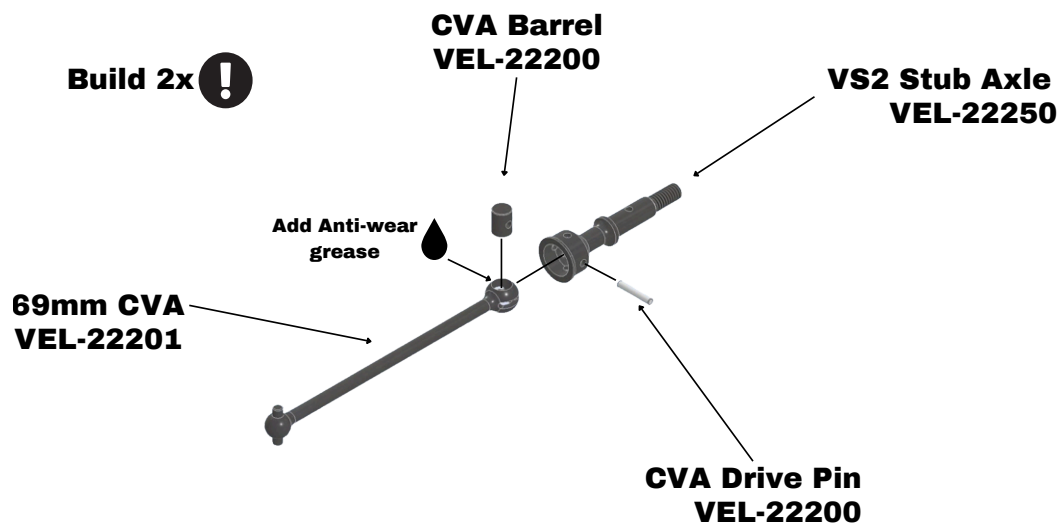
Bag H - Step 3



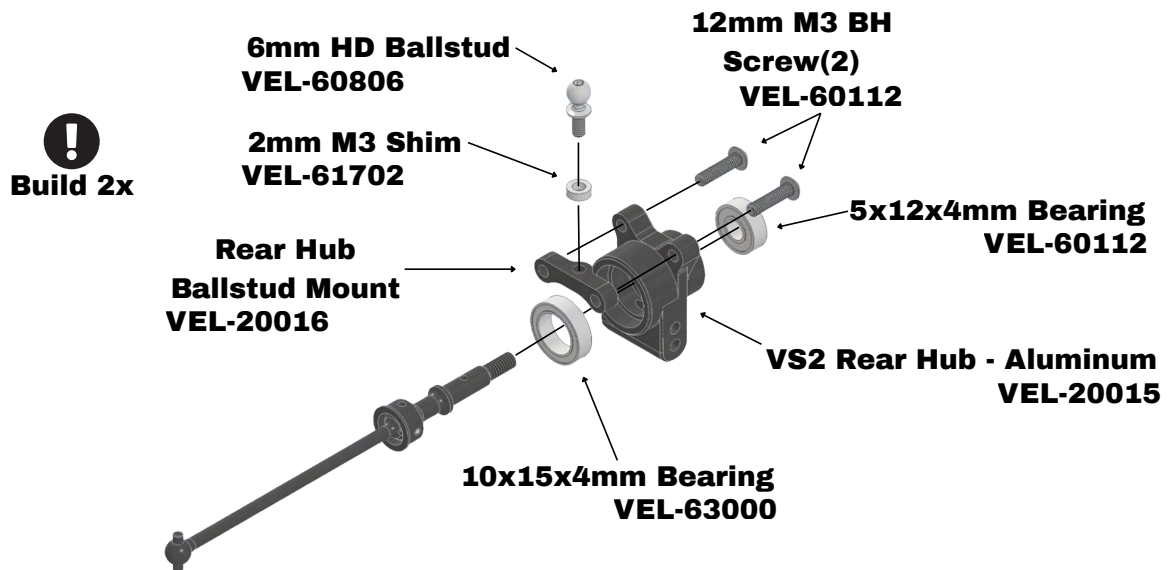
Bag H - Step 4



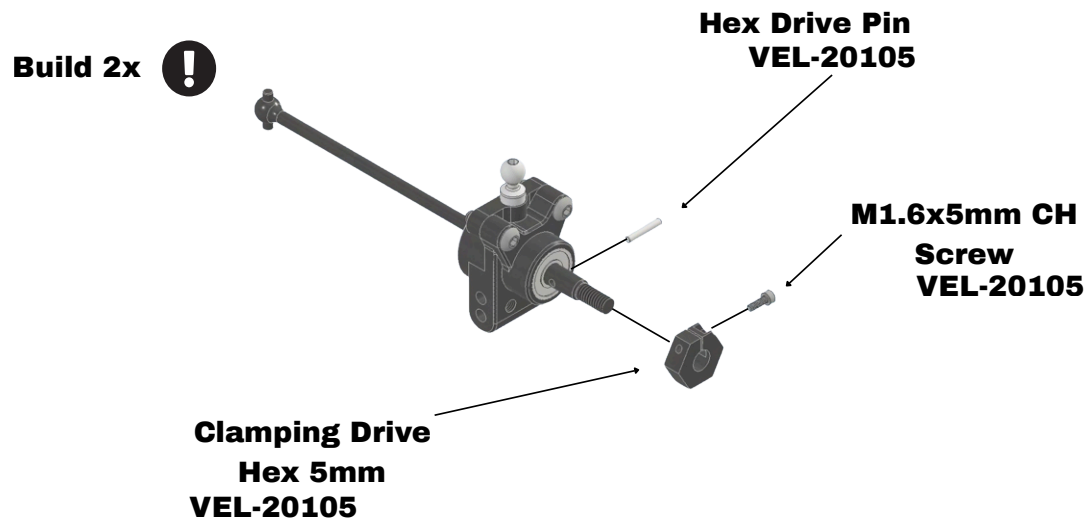
Bag I - Step 1



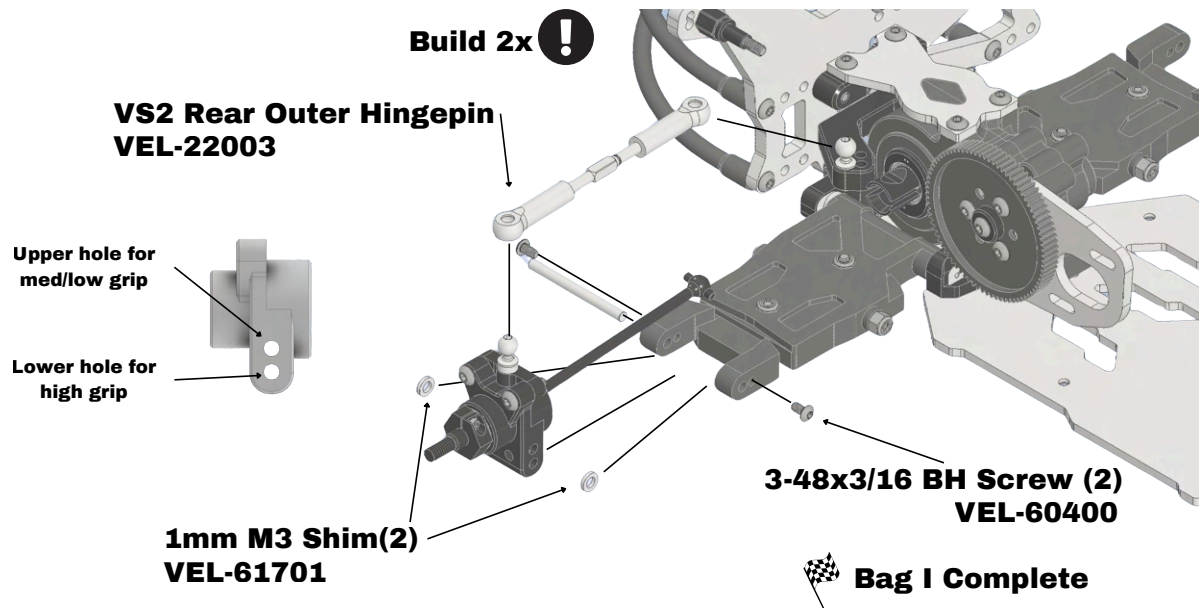
Bag I - Step 2



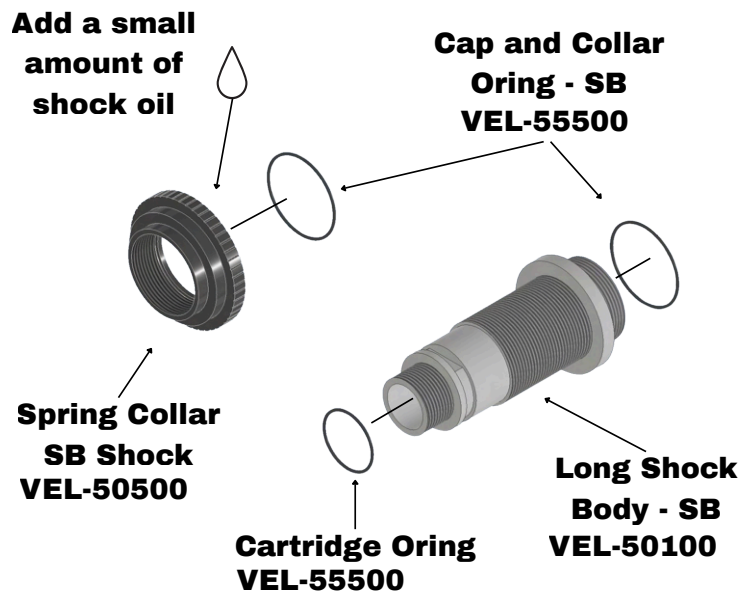
Bag I - Step 3



Bag I - Step 4



Bag J - Step 1



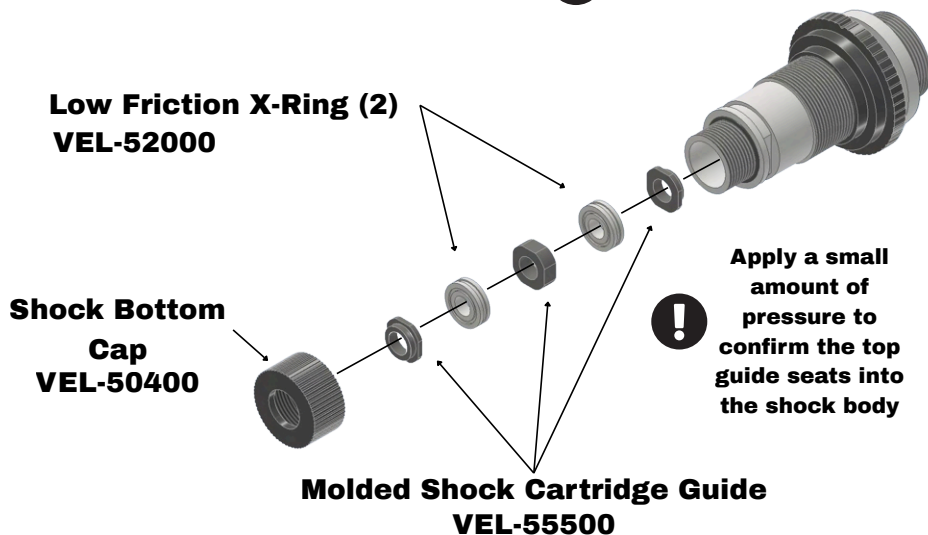
Step 1.1



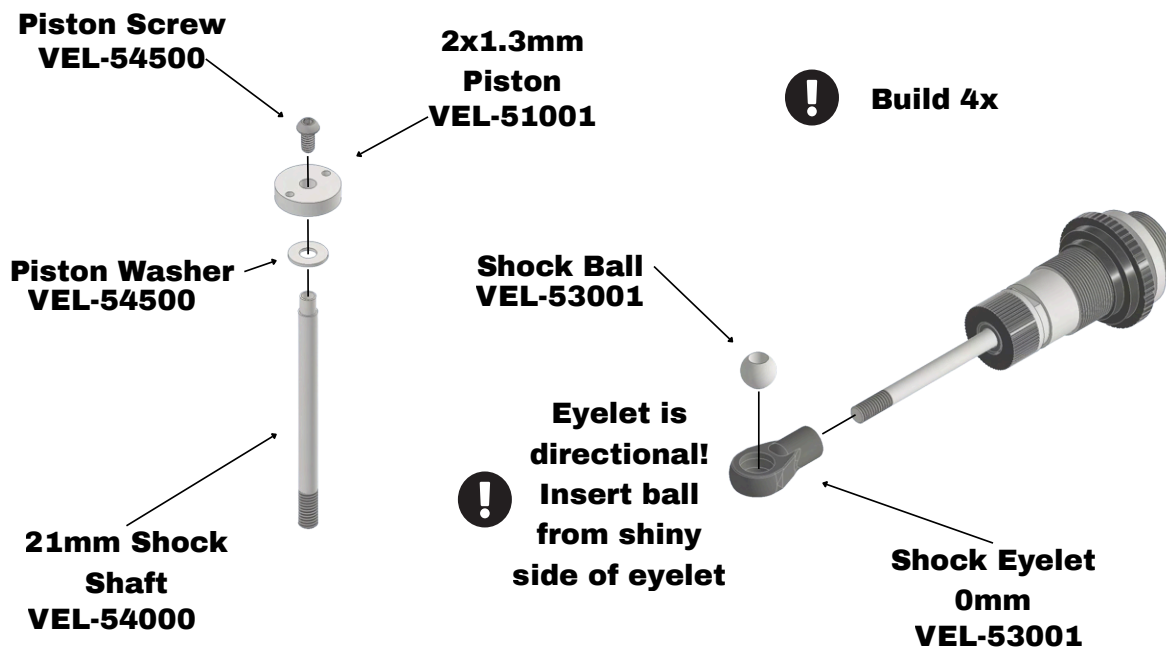
Bag J - Step 2



Build 4x !



Bag J - Step 3



Bag J - Step 4



1. With the shock fully extended, fill the shock body with 32.5 or 35 wt shock oil.
2. Holding the shock vertically, very slowly push the shock shaft into the body until fully compressed.
3. Very slowly pull the shock shaft back out until the piston reached the bottom of the body. Allow any air bubbles to reach the surface of the oil. Fill back to top if needed.
4. Screw the shock cap on to the body without the screw in the cap. Hold the body at a 45deg angle with the screw hole pointed up.

Emulsion Screw and Washer VEL-54501

5. Very slowly push the shock shaft back into the body until it is fully compressed, some oil should come out of the shock cap hole.
6. Insert the screw into the shock cap.
7. Pump the shock 3 times and let go of the shaft, the shaft should then rebound 0-3mm if built correctly.

Shock Cap - SB Emulsion VEL-50200

Team Tip:

Low-Med Grip use
32.5wt shock oil
Med-high grip use
35wt shock oil

! Build 4x

Bag J - Step 5



Low Spring Cup - SB VEL-50301

Front: Orange Shock Spring - SB VEL-56015

Rear: Blue Shock Spring - SB VEL-56016

! Build 4x

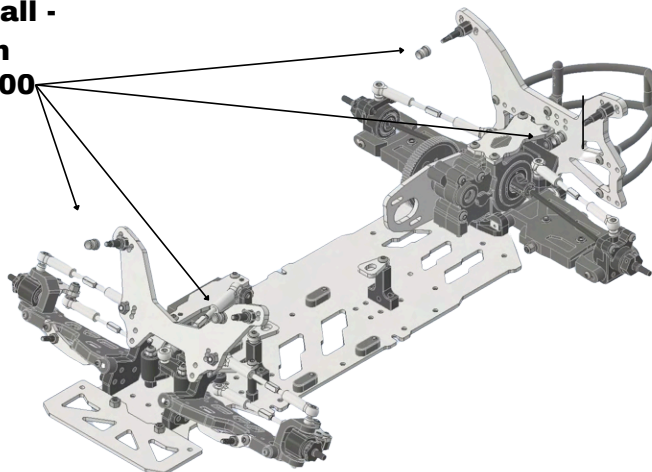


Bag J Complete

Bag K - Step 1



**Shock Ball -
Delrin
VEL-51200**

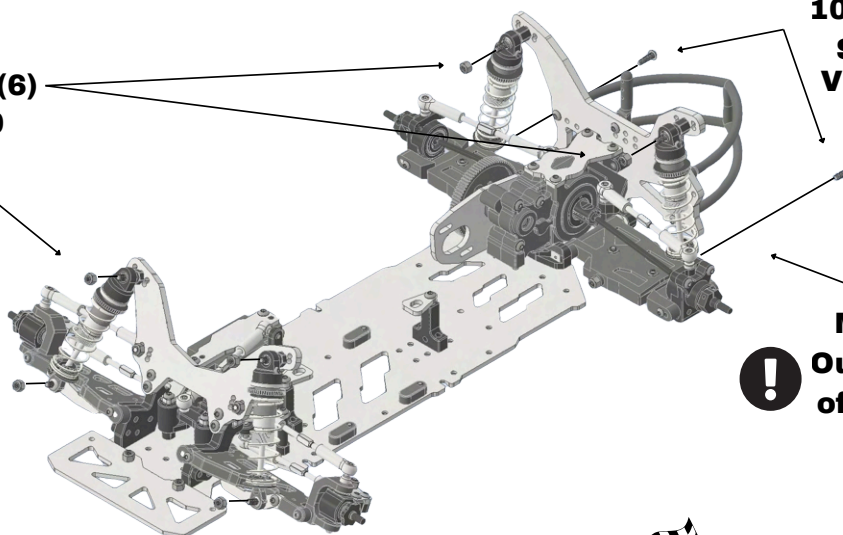


Bag K - Step 2



**M3 Locknut (6)
VEL-60000**

**10mm BH
Screw
VEL-60110**



**Mount to
Outer Holes
of the Rear
Arms**



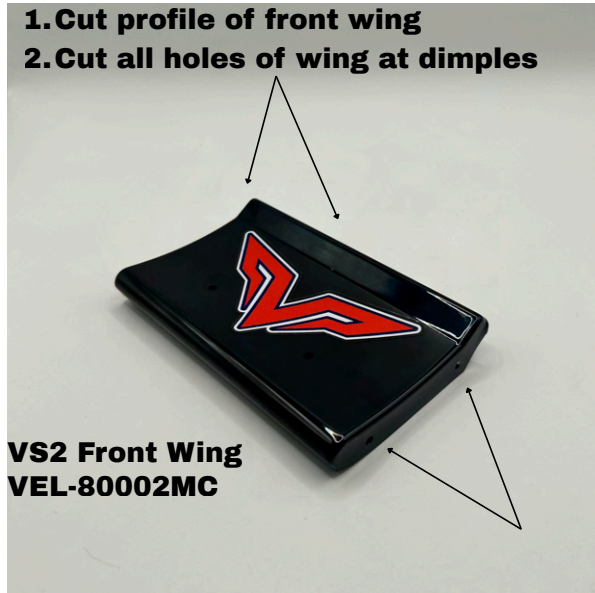
Bag K Complete

Body - Step 1



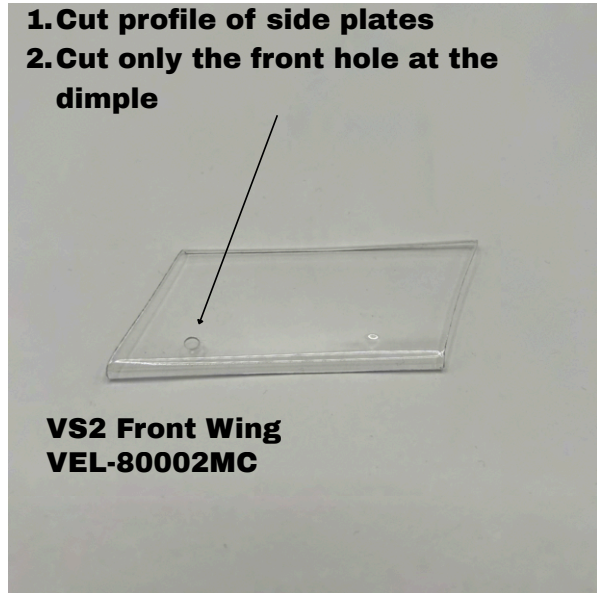
1. Cut profile of front wing
2. Cut all holes of wing at dimples

**VS2 Front Wing
VEL-80002MC**



1. Cut profile of side plates
2. Cut only the front hole at the dimple

**VS2 Front Wing
VEL-80002MC**



Body - Step 2



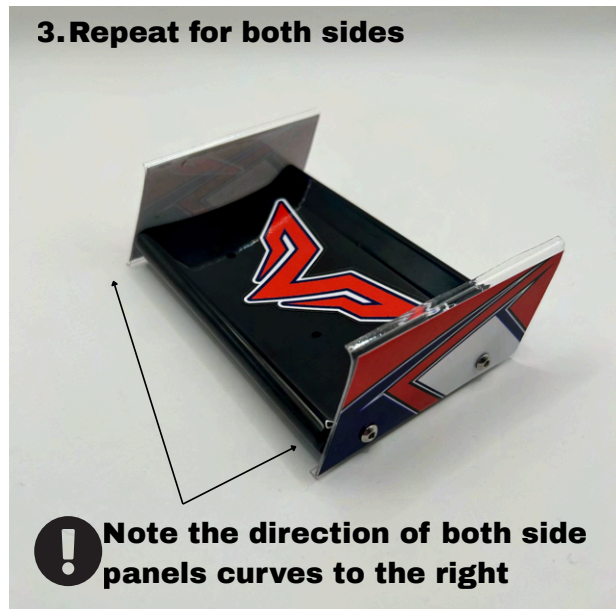
1. Attach side panel to center section using the front screw and nut

2. Level the side panel and cut the rear hole in the side panel to line up with center section



3. Repeat for both sides

! Note the direction of both side panels curves to the right

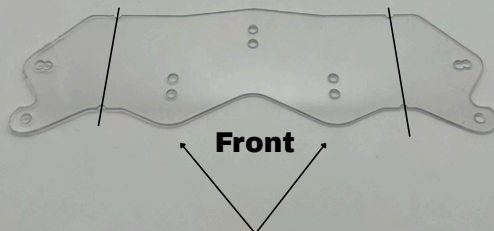


Body - Step 3



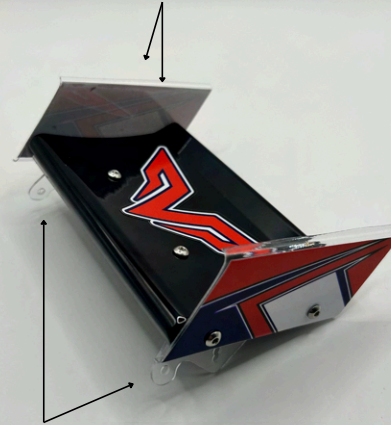
1. Use a straight edge to bend the front wing mount at a 90 deg angle on the lines shown below.

**VS2 Front Wing Mount
VEL-80001**



If on lower grip, use the rear set of holes, if on higher grip or a large high speed track, use the front set of holes

2. Attach the front wing to the front wing mount



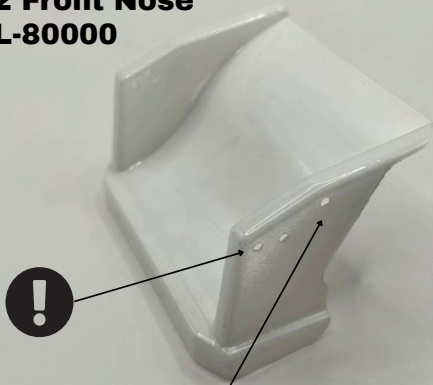
Note the orientation of the front wing mount

Body - Step 4

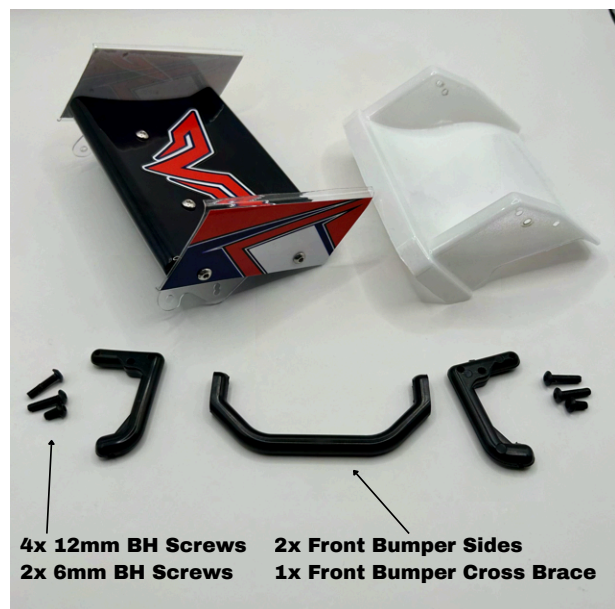


1. Cut the nose on the cut lines

**VS2 Front Nose
VEL-80000**



2. Cut holes in the sides of the nose at the dimples - Note, the front two go all the way through



4x 12mm BH Screws
2x 6mm BH Screws

2x Front Bumper Sides
1x Front Bumper Cross Brace

Body - Step 5

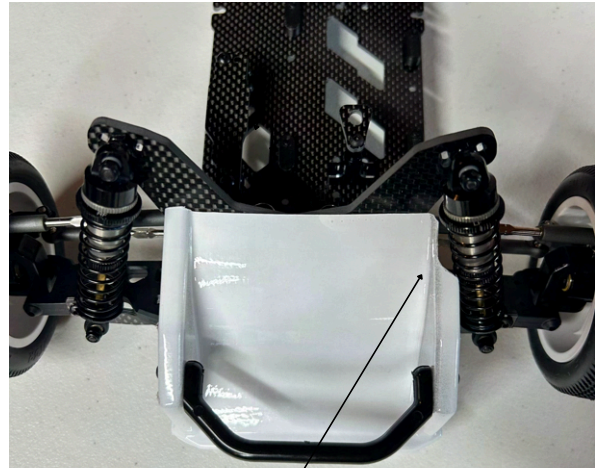


1. Insert the Bumper sides into the lexan as shown

2. Attach the cross brace using the 12mm BH screw in the hole shown below.



Do this for both sides

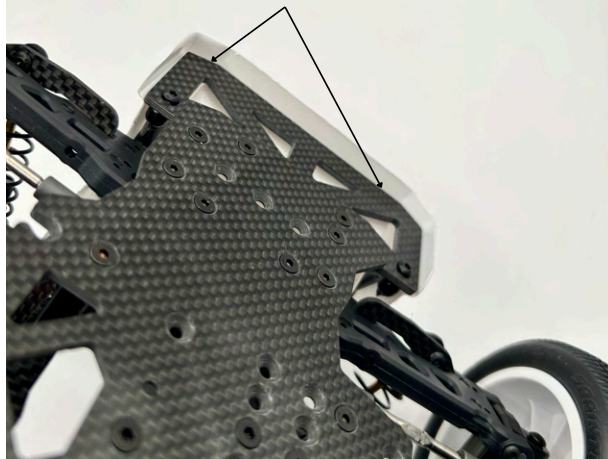


Place the nose on the front carbon bumper of the VS2, mark and trim where the nose needs to be cut to clear the shock - this will be different locations depending on offset and shock position

Body - Step 6



- 1. Attach the nose to the VS2 using 2x 10mm BH Screws**
- 2. Mark the cut line using a thin marker**

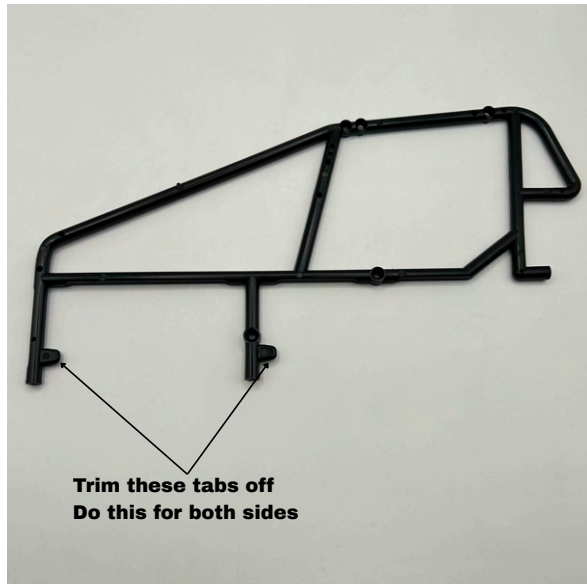


Attach the wing mount to the nose using the remaining 12mm and 6mm screws

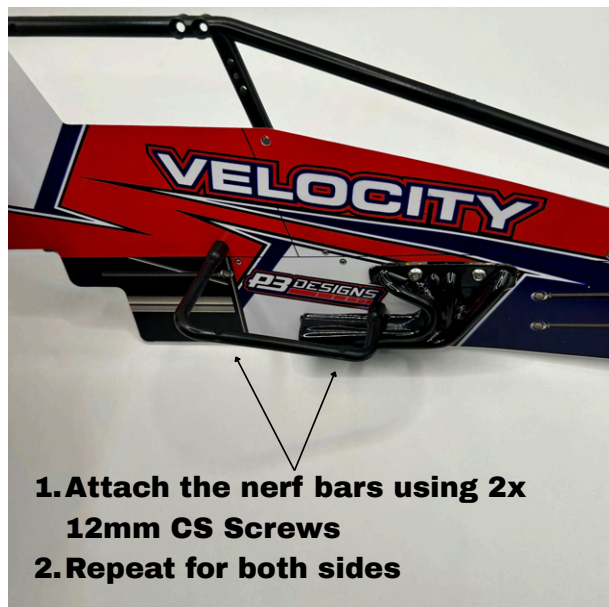


Note - The wing may need to be trimmed to clear the shock

Body - Step 7



Body - Step 8



Body - Step 9



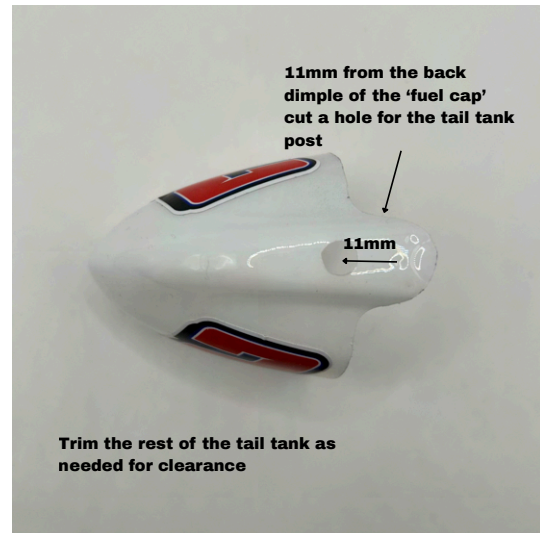
Body - Step 10



Body - Step 11



**Attach opposite side pannel
repeating the process from
step 9**

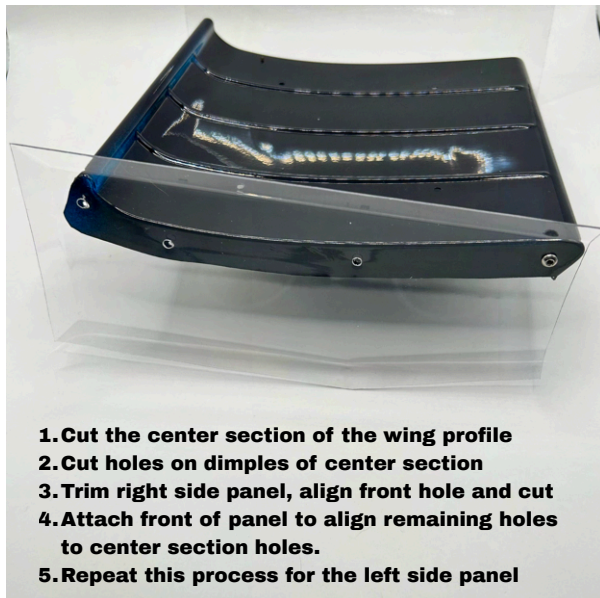


**11mm from the back
dimple of the 'fuel cap'
cut a hole for the tail tank
post**

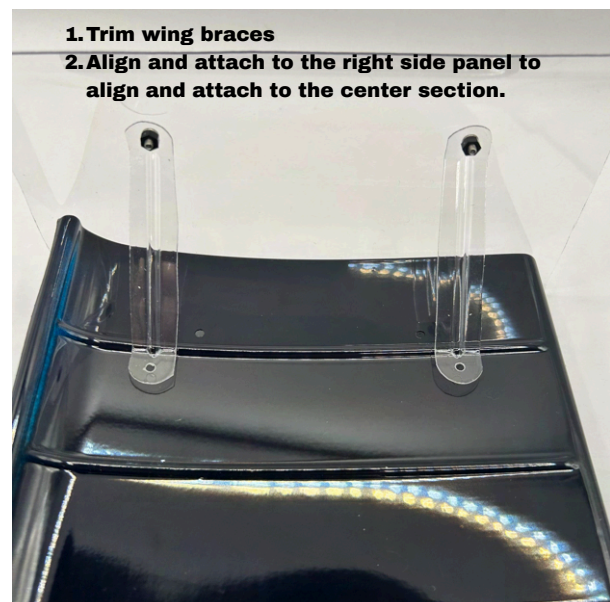
11mm

**Trim the rest of the tail tank as
needed for clearance**

Body - Step 12

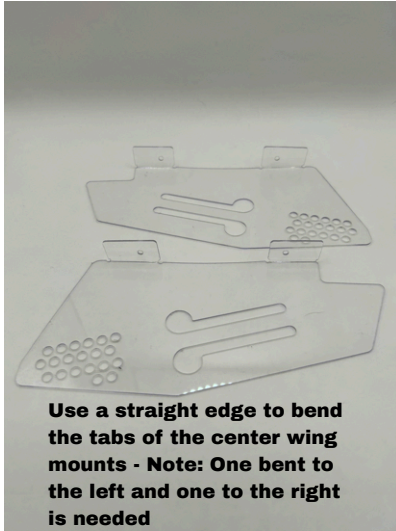


- 1. Cut the center section of the wing profile**
- 2. Cut holes on dimples of center section**
- 3. Trim right side panel, align front hole and cut**
- 4. Attach front of panel to align remaining holes
to center section holes.**
- 5. Repeat this process for the left side panel**



- 1. Trim wing braces**
- 2. Align and attach to the right side panel to
align and attach to the center section.**

Body - Step 13



Use a straight edge to bend the tabs of the center wing mounts - Note: One bent to the left and one to the right is needed



Attach the wing mounts to the center section of the wing. Note: The tabs of the wing mounts should face the outside of the wing.

Body - Complete!



**VS2**

Driver: _____ Kit Setup _____

Date: _____ Temp _____

Flat ☐ ☐ ☒ ☐ ☐ Banked

Track: _____ Event: _____

Low Grip ☐ ☒ ☐ ☐ ☐ High Grip

Ride Height 16mm

Camber 0 Deg

Axle 5mm - Shims Out

Spindle Inline

Spindle Plate Kit

Bump Steer Spacing 1mm

Caster Block 0 Deg - Back

Caster Ballstud Kit

Rack Spacers 1mm

Droop 16.5mm

Left Front**Front Suspension**View From
Back

Ride Height 16mm

Camber -2 deg

Axle 5mm - Shims Out

Spindle Inline

Spindle Plate Kit

Bump Steer Spacing 1mm

Caster Block 0 Deg - Back

Caster Ballstud Kit

Rack Spacers 1mm

Droop 16.5mm

Right FrontTower Wide VEL-12000Toe 1 deg outShock Mount Gull

D/R _____

Bulkheads 25 degNotes Droop Measure

Sway Bar _____ 20mm blocks - bottom of arm

Ride Height 17mm

Camber 0 Deg

Droop 22.5mm

Hub Spacing Centered

Arm Spacing Forward

Ballstud Spacers 2mm

Mount Spacers 0mm

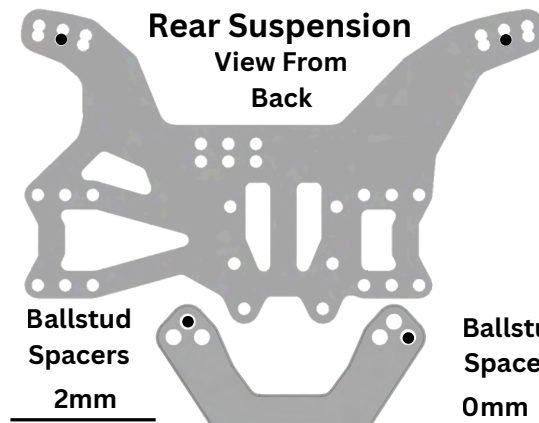
Hex 5mm

Drive Shaft 69mm CVA

Arm Toe 5 deg in

Shock Arm Location Out

Brass Recommended

Left Rear**Rear Suspension**View From
BackBallstud
Spacers
2mmBallstud
Spacers
0mm

0.5 ☐ ☒

1.0 ☐ ☐

0.5 ☐ ☒

1.0 ☐ ☐

C Block

Insert

D Block

Insert

☐ 0.5

☐ 1.0

☐ 0.5

☐ 1.0

Hub Height _____

Notes Recommend approx 50g by battHub Height Out Shock Arm Location

Shocks	LF	RF	LR	RR
Piston	2x1.3	2x1.3	2x1.3	2x1.3
Fluid	32.5/35wt	32.5/35wt	32.5/35wt	32.5/35wt
Spring	Orange	Orange	Blue	Blue
Limiters	0mm	0mm	0mm	0mm
Stroke	22.25mm	22.25mm	23mm	23mm
Eyelet	0mm	0mm	0mm	0mm
Spring Cup	Low	Low	Low	Low
Bodies	SB - 34mm	SB - 34mm	SB - 34mm	SB - 34mm
Caps	Emulsion	Emulsion	Emulsion	Emulsion

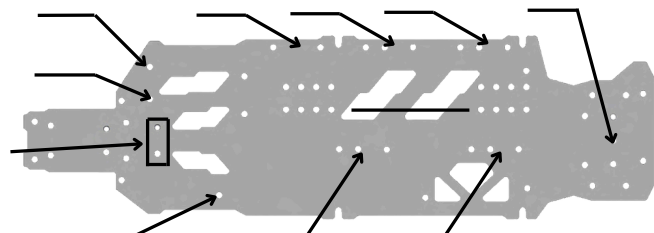
Chassis 7mm

Chassis Weight _____

Trans
Brace
No _____

Corner
Weights

LF RF LR RR Rear% Cross% Total



Drive Info ESC _____ Direct Drive ☒ Ball Diff ☒ Diff Fluid _____

Motor _____ Drag _____ Slipper ☐ Gear Diff ☐ Diff Setting _____

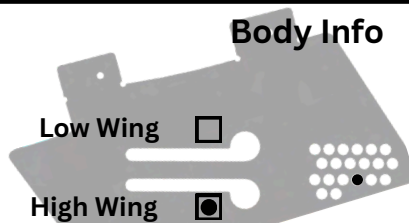
Rotor _____ EPA % _____ Gearing / Diff Height 2

Nose/Hood VS2 Kit VEL-80000/80003

Front Wing/Mount VEL-80002MC/80001

Top Wing Curved VEL-80005MC

Top Wing Mount VEL-80005

**Body Info**Low Wing ☐High Wing ☒

Tires F/R _____

Tire Compound F/R _____

Insert F/R _____

Wheels F/R _____

Notes _____

