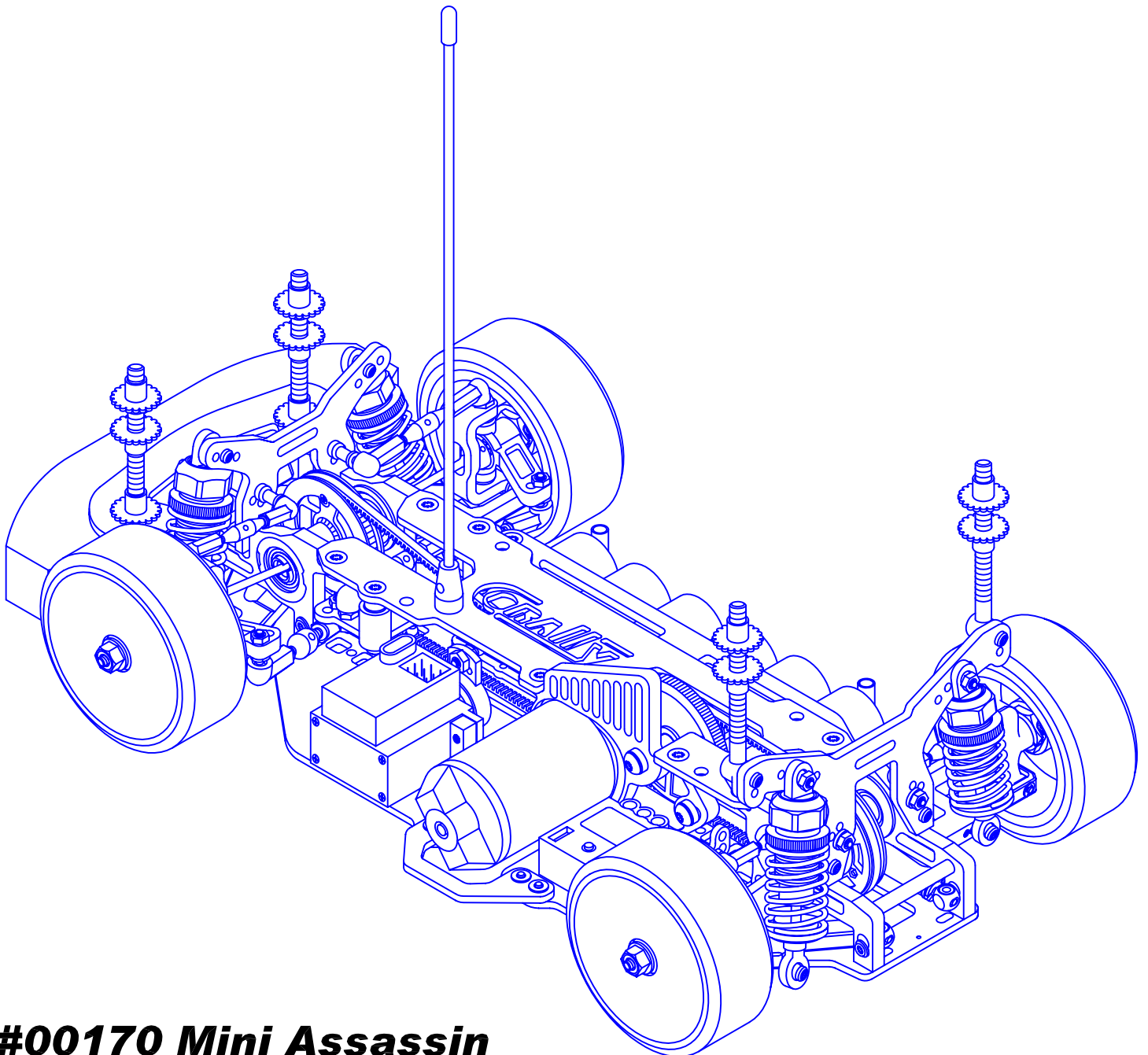


TEAM CORALLY
ASSASSIN

***Mini Assassin Touring Car
Instruction Manual***



#00170 Mini Assassin

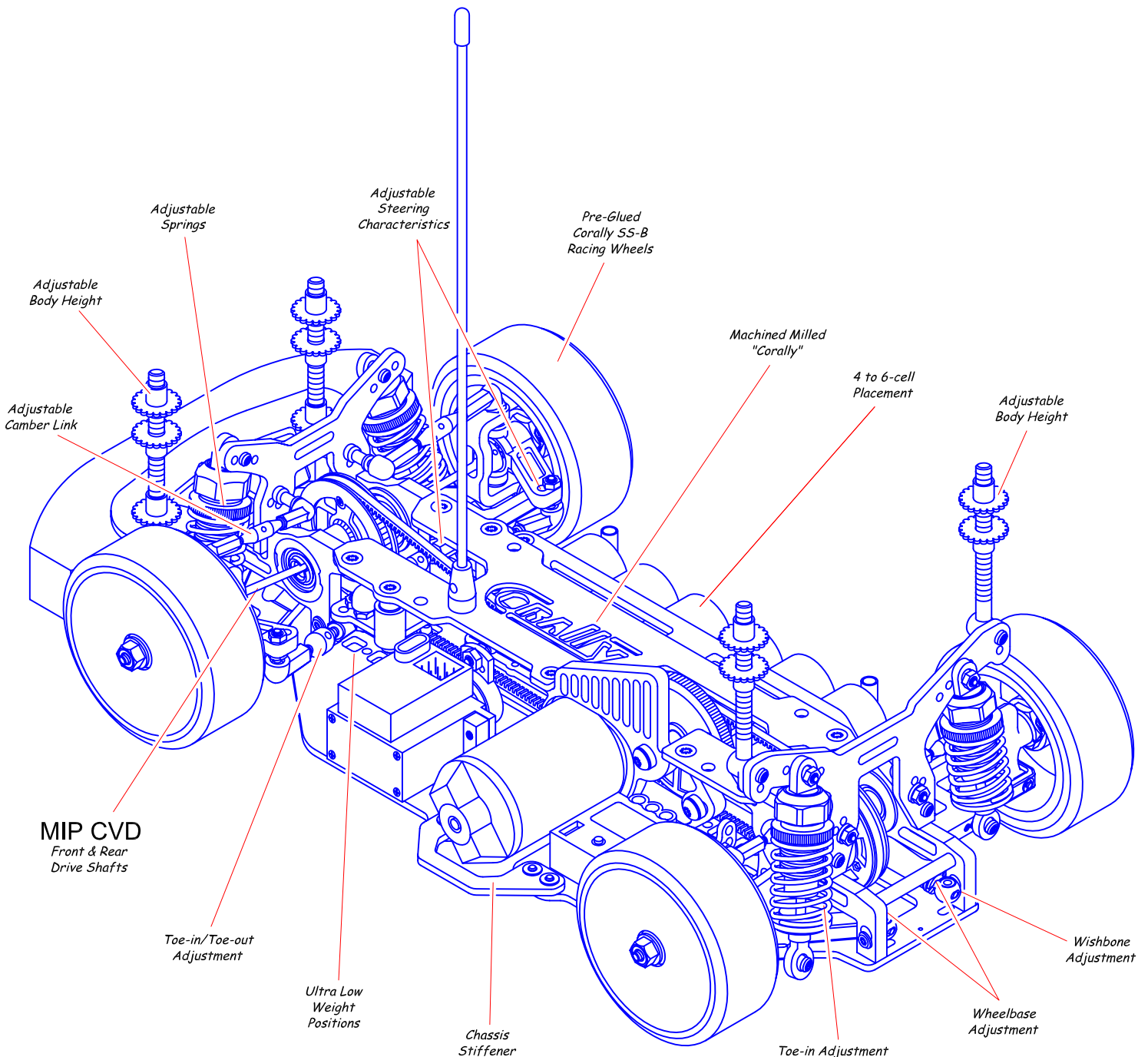


Congratulations !

You have just bought the best 1:12 Touring Car available!
With its SINGLE BELT configuration and the Assassin parts from
its big 1:10 brother it's the ultimate 1:12 Touring Car available.
And this

Mini Assassin Instruction Manual

will guide you through all the steps to get your car running.
For best results it is advised to read this manual completely
before you start to build the car.



Tools needed (included)

- Screwdriver Torx T10 **Corally part #16030**
- Silicone Shock Oil 20WT oil **Corally part #80120**
- Differential Grease **Corally part #80010**
- Thread Lock (included with MIP CVD™) **Corally part #79180**

Tools needed (not included)

- Screwdriver for setscrews - 1.5mm **Corally part #16040**
- Small Phillips screwdriver

- Cross Wrench (small)
or
- 5 mm nut driver
- 5.5 mm nut driver
- 6 mm nut driver
- 7 mm nut driver

- Cutting Plier
- Longnose Plier

- Precision ruler
- Vernier calipers

- Hobby Knife
Be careful with the sharp blade!
- Hobby Scissors

- Double-sided Tape

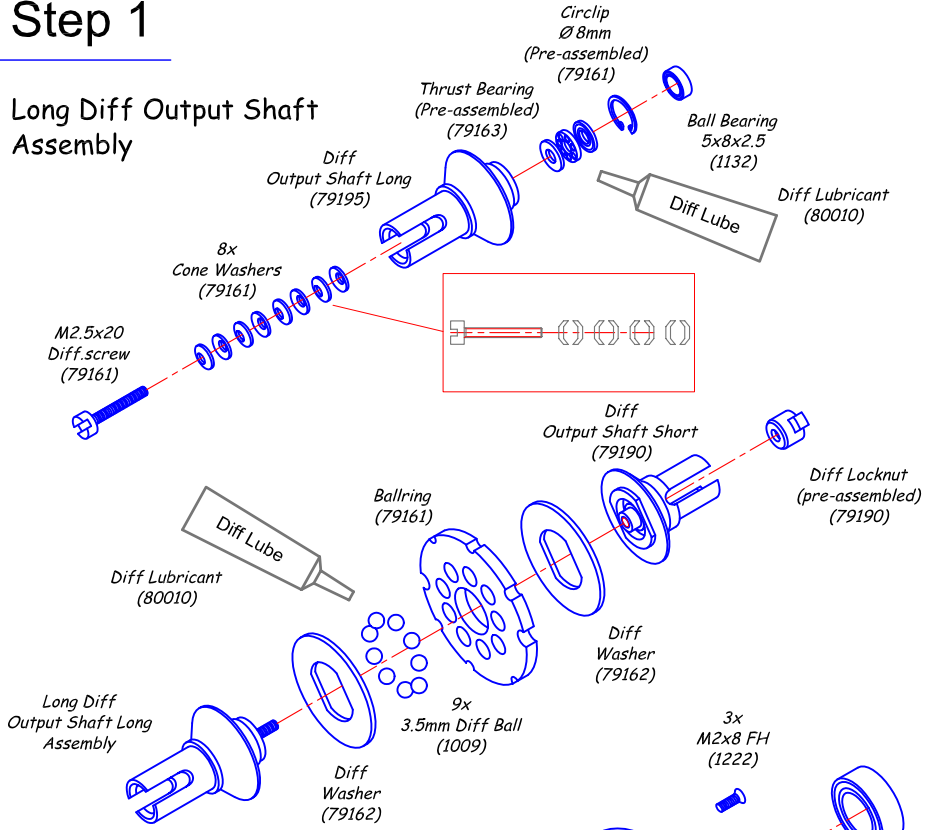
Items needed to complete your car (not included)

- R/C two channel surface frequency radio system
- 7.2V Battery Pack (6 cell sub-C size) or 4.8V Battery Pack (4 cell sub-C size)
- Battery Charger (with peak or temperature detection)
- Servo with Servosaver
- Electronic Speed Control
- Electric Motor
- Short pinion gear, size to be determined by type and wind of motor you will be using.
- 1:12 Scale Lexan Body

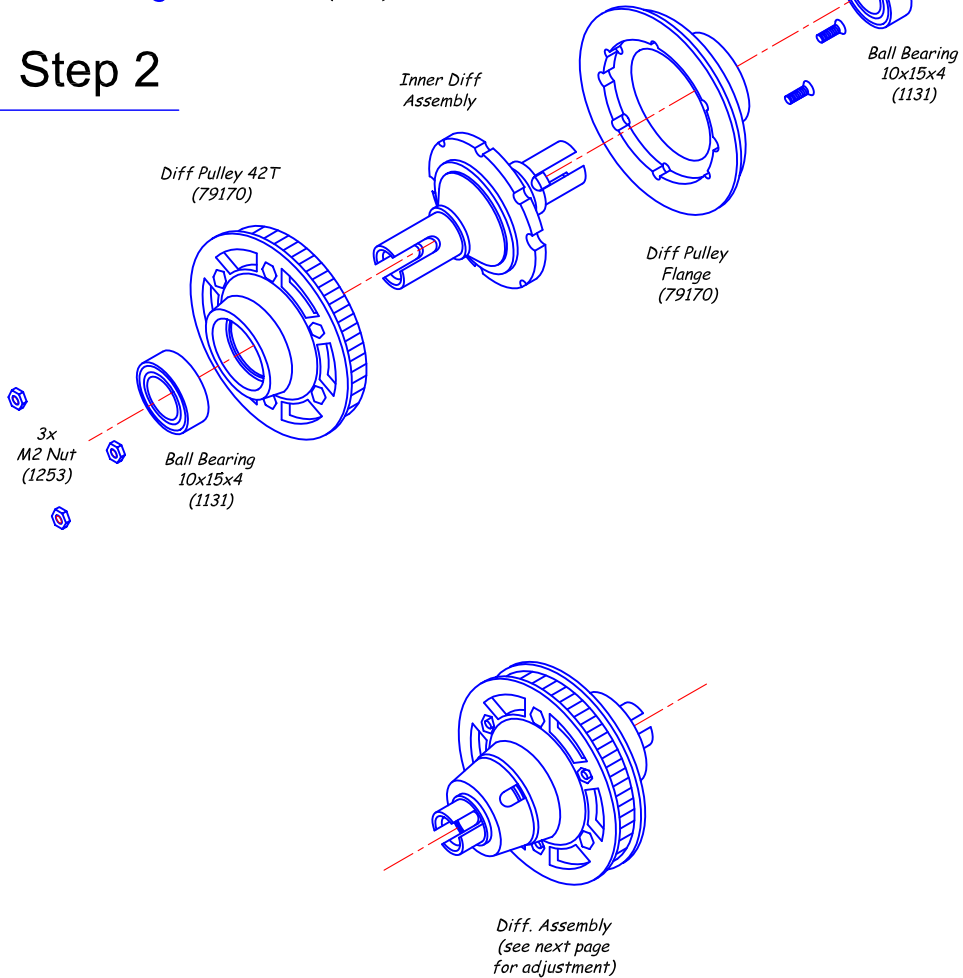
Bag 1 Rear Differential










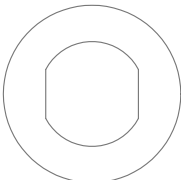







Step 1

Long Diff Output Shaft Assembly



Step 2



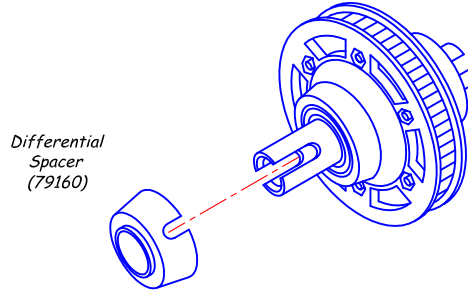
-  9x Ball Ø3.5 mm
-  1x Diff Output Shaft Long
-  1x Diff Output Shaft Short
-  1x M2.5x20 Diff screw
-  8x Cone Washer 6x2.7
-  1x Circlip Ø8mm
-  1x Thrust Bearing (3-pc.)
-  1x Ball Bearing 5x8x2.5
-  2x Ball Bearing 10x15x4
-  2x Diff Washer
-  3x M2 x10 FH
-  3x M2 x 8 FH
-  6x M2 Nut
-  1x Ball Ring
-  1x Diff Pulley 42T
-  1x Diff Pulley Flange
-  1x Diff Locknut

Differential Adjustment

The Differential is one of the most important things of your car. So build it very carefully.

Step 1

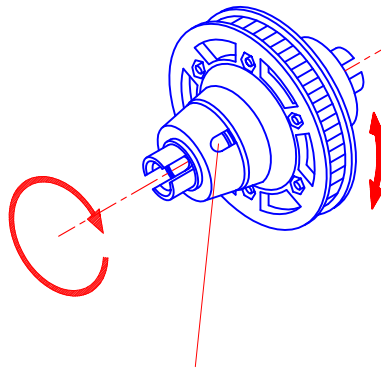
First the Differential Spacer must be slid over the Long Differential Output.



Step 2

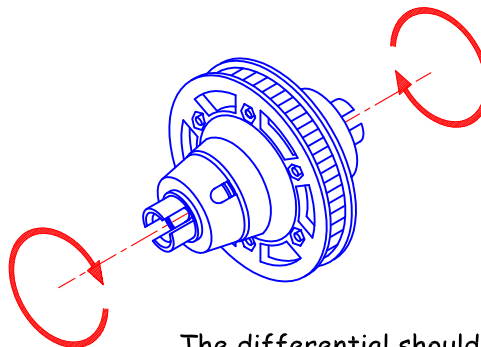
As the Differential is built now, it can also be used as a normal Front Differential (optional)

Hold the outdrive on this side with another screwdriver.



Stick a 1.5mm screwdriver in it that it slots in the head of the diff screw. As you tighten the diff, you will notice the cone washers are being compressed. The cone washers should be tightened until the pulley can not be rotated when both of the diff hubs are being held.

Step 3



The differential should spin smoothly after assembly.

- 1x One-way Hub
- 2x One-way Outdrive
- 1x 42T Pulley

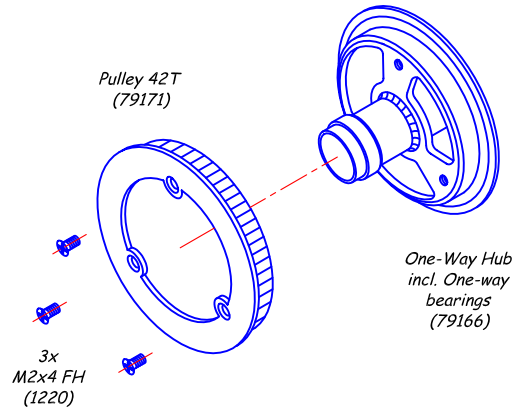


- 3x M2x4 FH

Bag 2 Front One-way

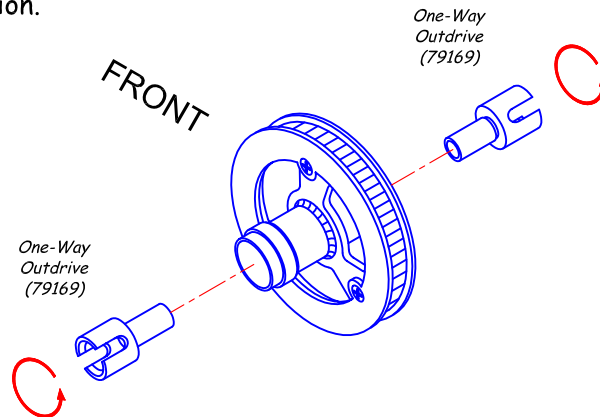
Step 1

Mount the plastic pulley on the one-way hub.



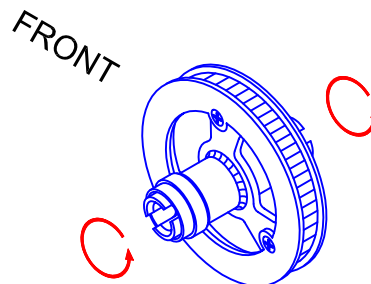
Step 2

Now slide the outdrives in the one-way bearings. Make sure that they rotate in the right direction.



Step 3

The outdrives have to turn freely by rolling them forwards.



2x Bulkhead Front

2x Bulkhead Rear

8x Hingepin Adjustm. Block



8x Delrin Hingepin Lock



4x Toe-in Spacer 1°



4x Inner Hingepin



8x Plastic Clip

4x Delrin Wishbone



8x Cone Washer 8x4.2x0.5

4x Alu Shim 3.2x7



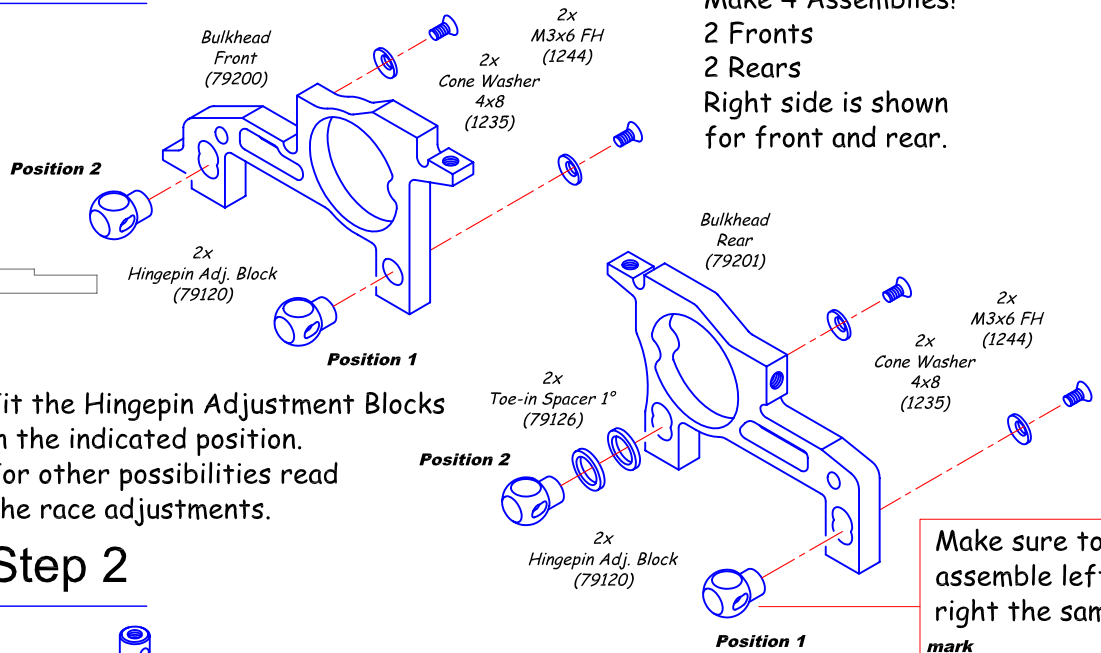
8x M3x6 FH



4x M3x3 Setscrew

Bag 3 Drivetrain Subassembly

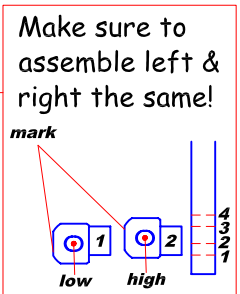
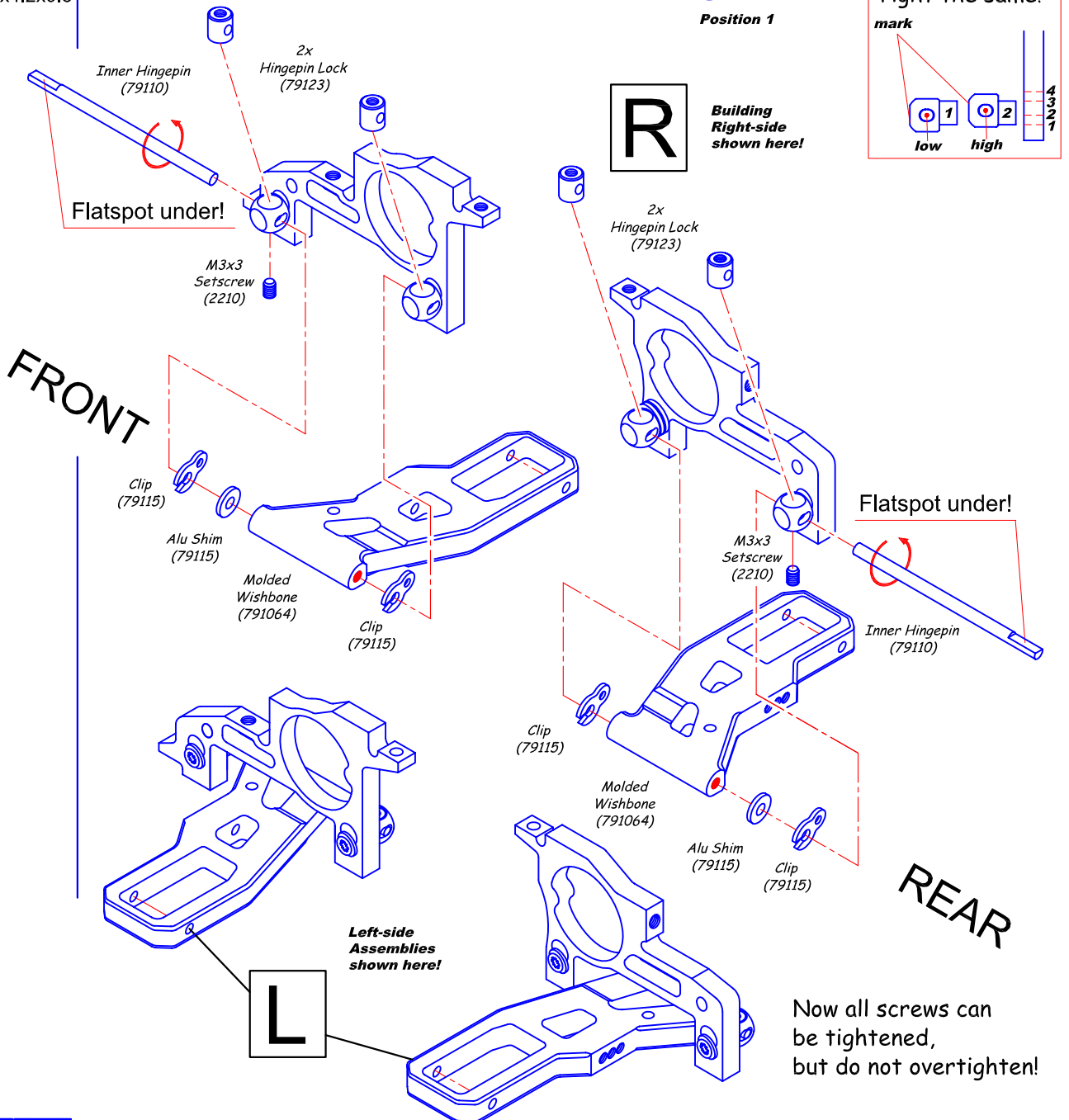
Step 1



Make 4 Assemblies!
 2 Fronts
 2 Rears
 Right side is shown for front and rear.

Fit the Hingepin Adjustment Blocks in the indicated position. For other possibilities read the race adjustments.

Step 2



Now all screws can be tightened, but do not overtighten!

- 1x Mini Main Chassis
- 1x 3mm Belt
- 1x Bulkhead Center Post

Bag 4 Drivetrain (Front)

Step 1

Install the One-way parts and the bulkheads.

Then mount the assembly to the chassis.

- 2x Ball Bearing 10x15x4

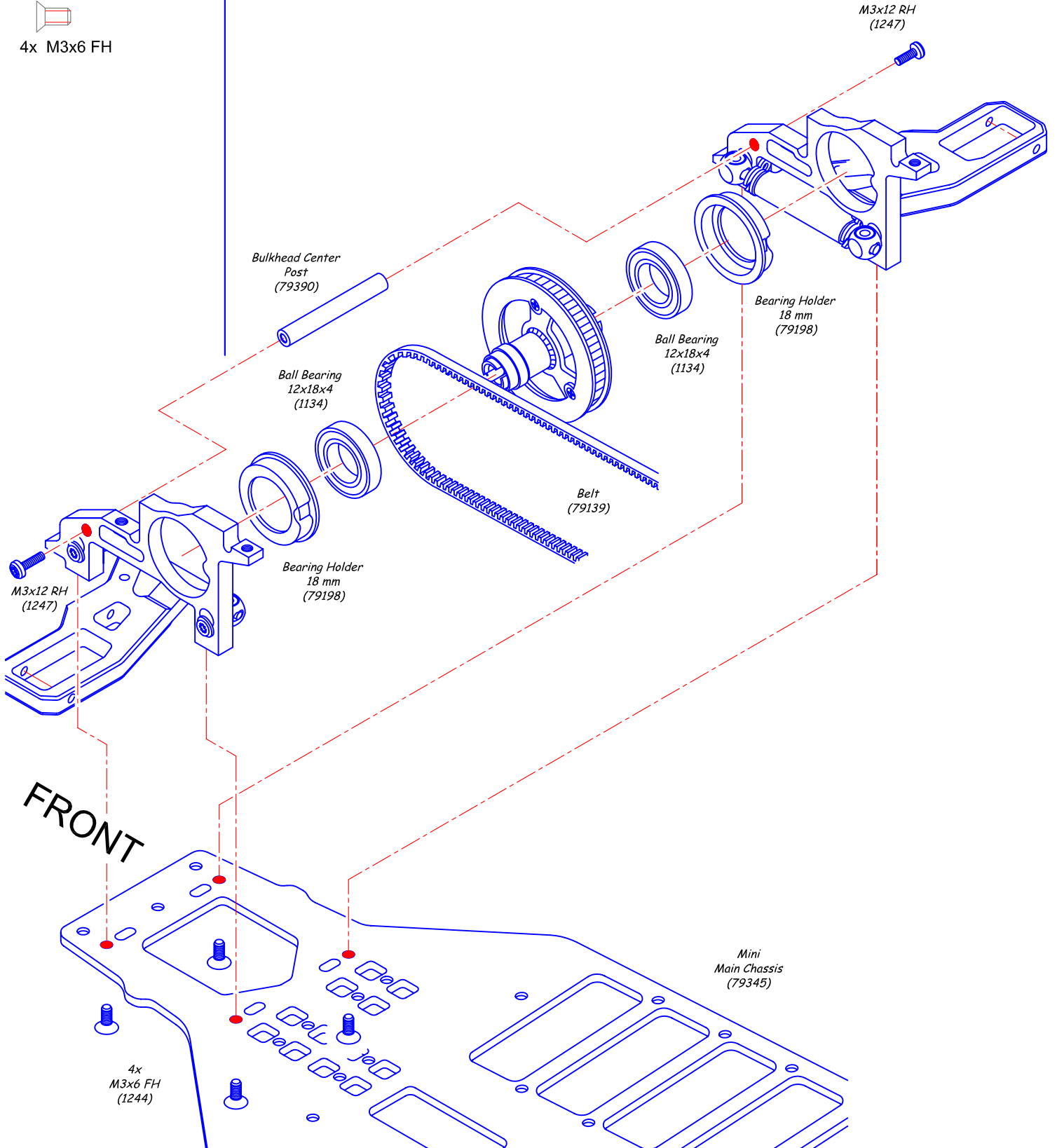
- 2x Diff Support Ring



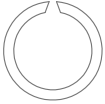
- 2x M3x12 RH



- 4x M3x6 FH



- 1x Bulkhead Center Post
- 2x Ball Bearing 10x15x4
- 2x Ball Bearing 5x9x3



- 1x Diff Spacer (Right)
- 2x Diff Support Ring



- 2x M3x12 RH



- 4x M3x6 FH

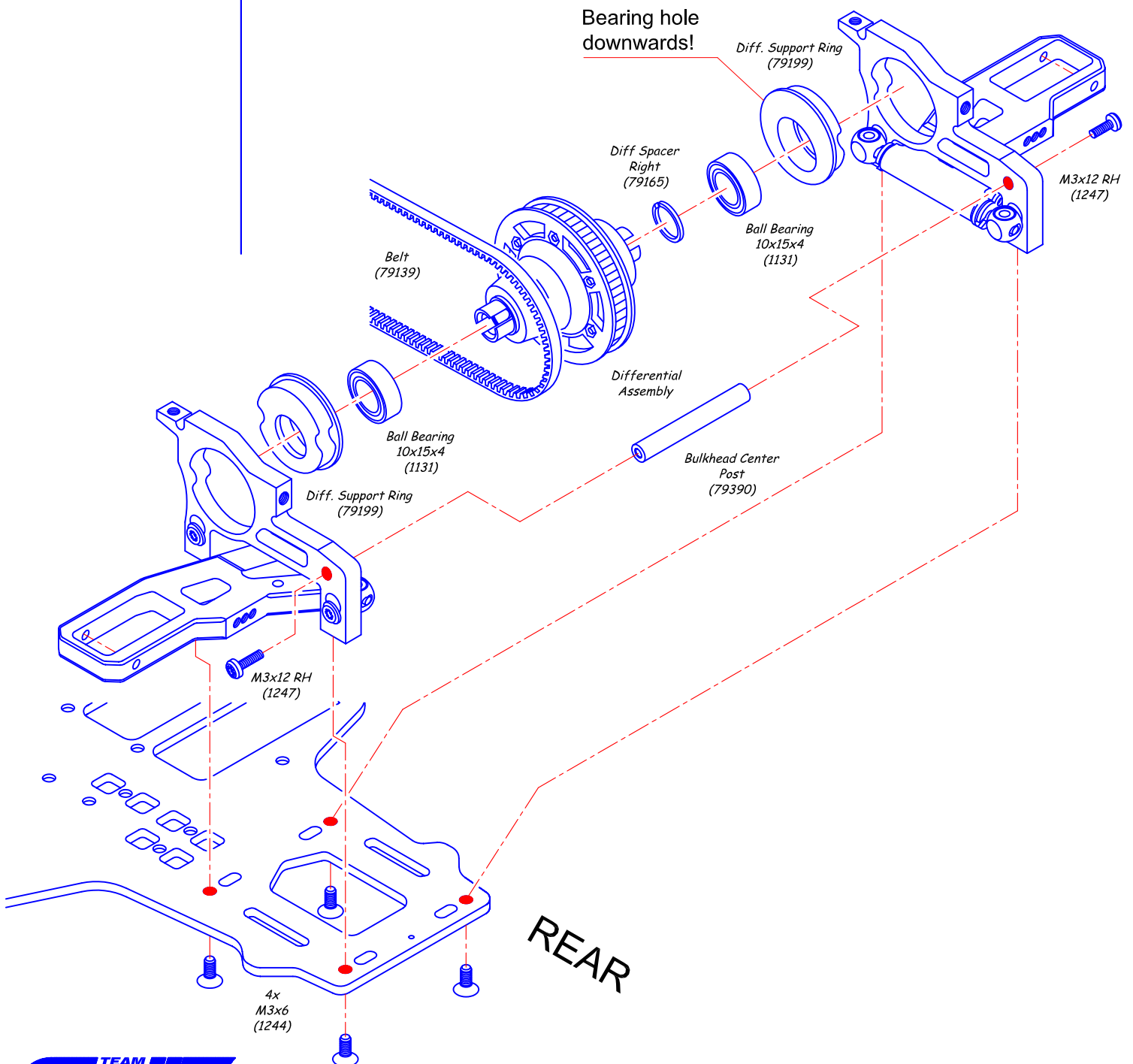
Bag 4 Drivetrain (Rear)

Step 2

The same steps can be followed for modified.

Mount the rear differential parts and the bulkheads together.

Then mount the assembly to the chassis.



- 1x Motormount
- 2x Spur Gear Shaft
- 2x Spur Gear Shaft Spacer
- 2x Ball Bearing 5x9x3
- 1x Diff Spacer (Right)
- 2x Diff Support Ring
- 1x Pulley Flange

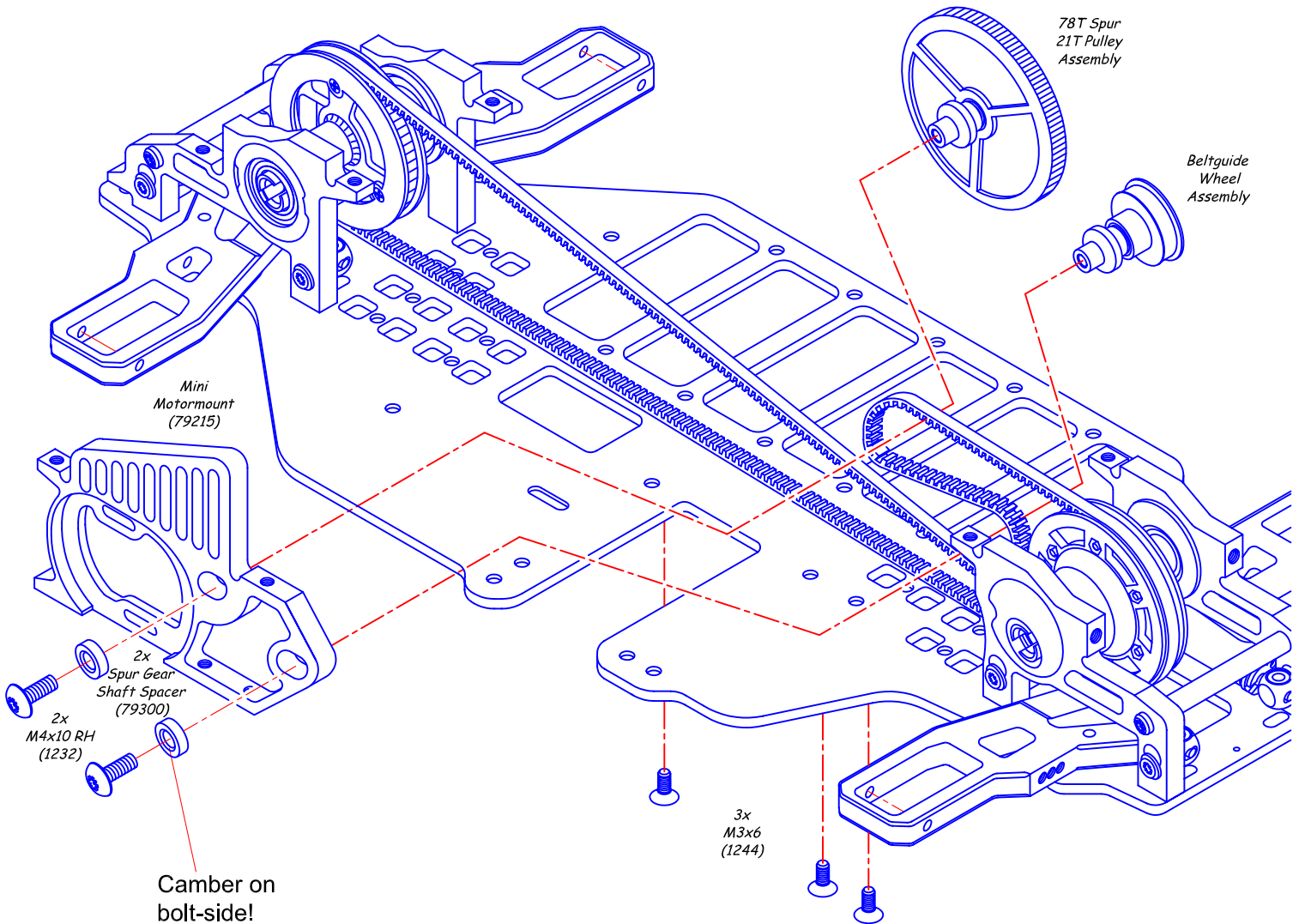
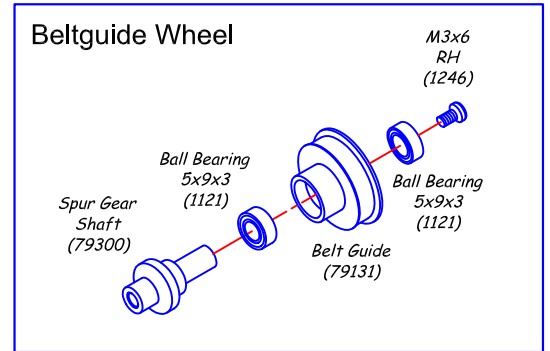
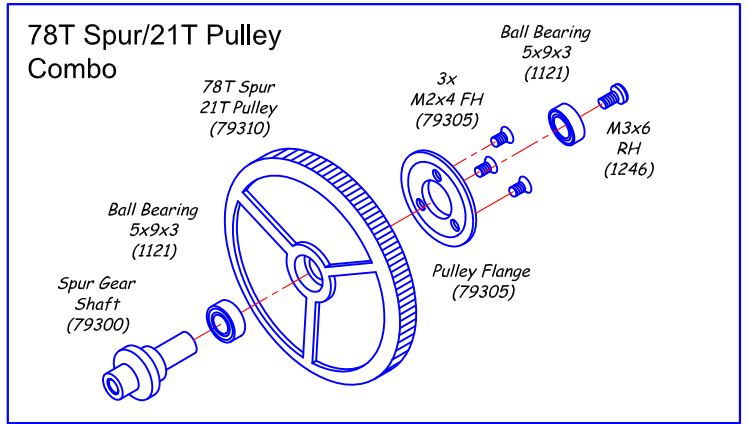
- 2x M4x10 RH
- 2x M3x6 RH
- 3x M3x6 FH
- 3x M2x4 FH

Bag 4 Drivetrain (Midpart)

Step 3

Bend the belt around the Beltguide Wheel-assembly and 21T Pulley-assembly as shown.

Then built them together and screw the Motormount to the Chassis.



1x Topdeck

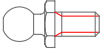


2x Steering Lever Post

1x Steering Lever Right

1x Steering Lever Left

1x Antenna Holder



5x Short Jointball 4.3mm (M3x5.5mm)



4x Ball Bearing 5x8x2.5



1x M3x8 RH



2x M3x6 RH



8x M3x6 FH

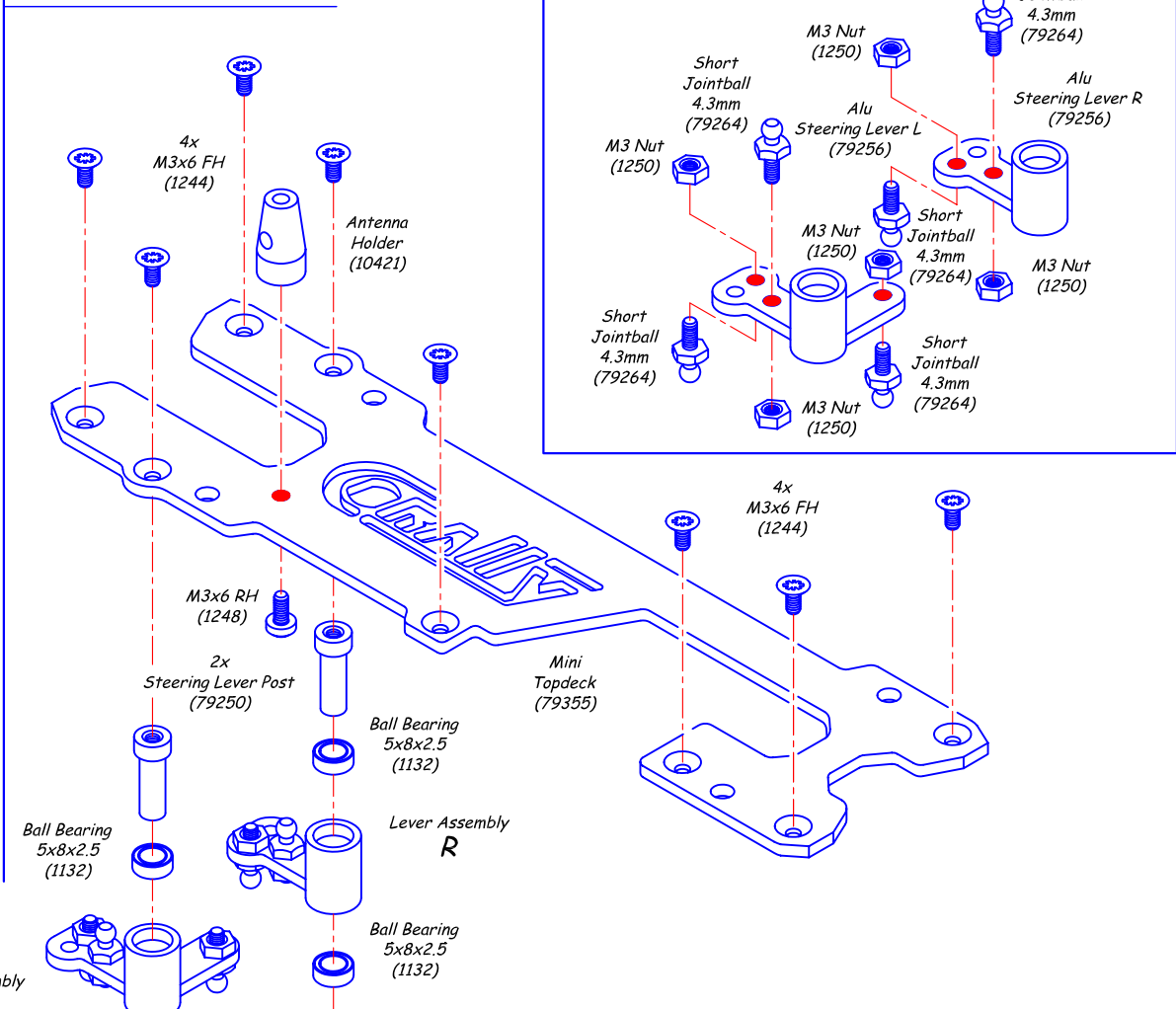
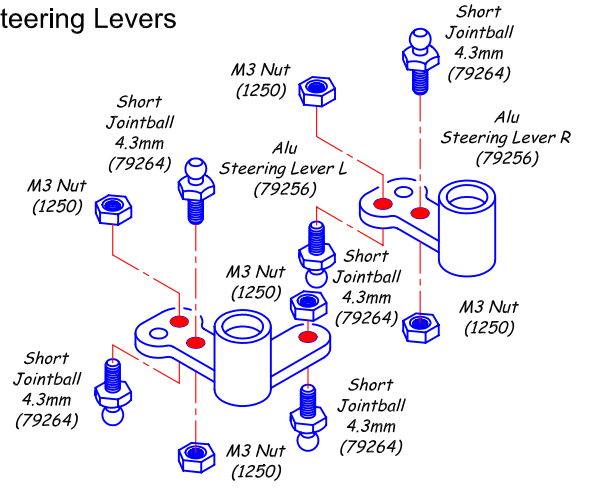


5x M3 Nut



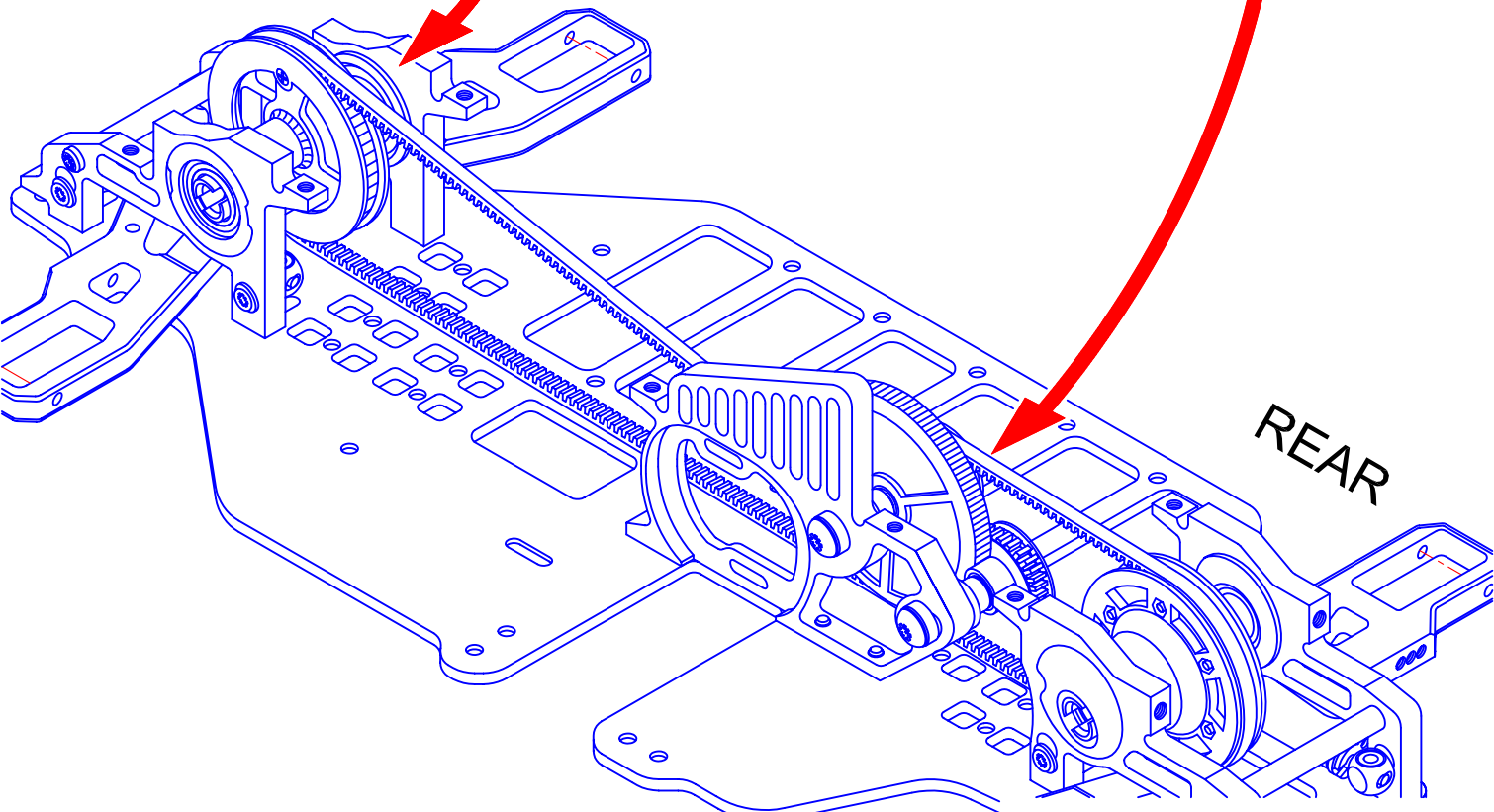
Bag 5 Chassis

Steering Levers



FRONT

REAR



1x Front Shocktower

1x Front Bumper



2x Long Jointball 4.3mm (Front Link)



2x M3x6 RH



3x M3x8 FH



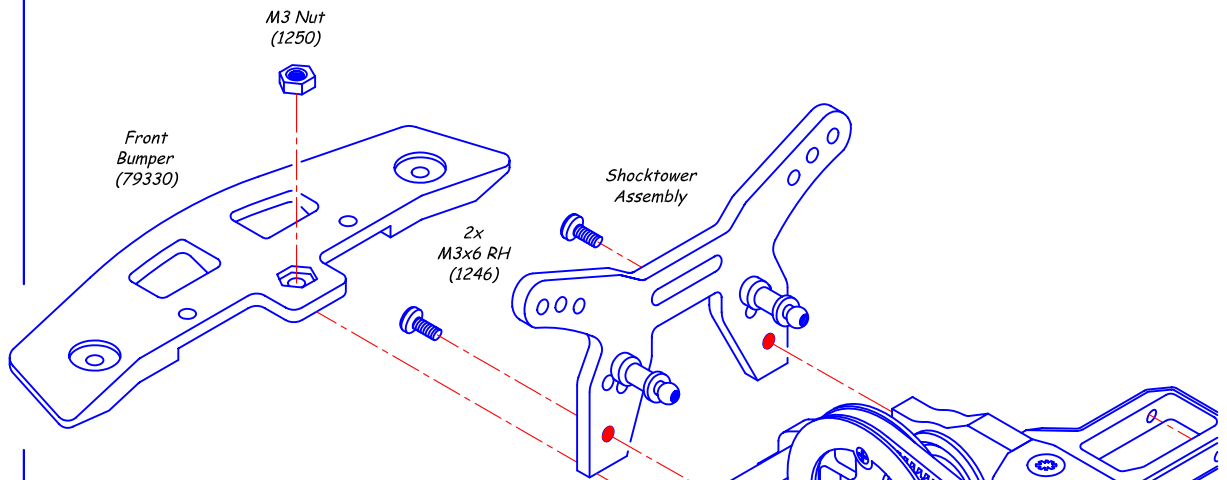
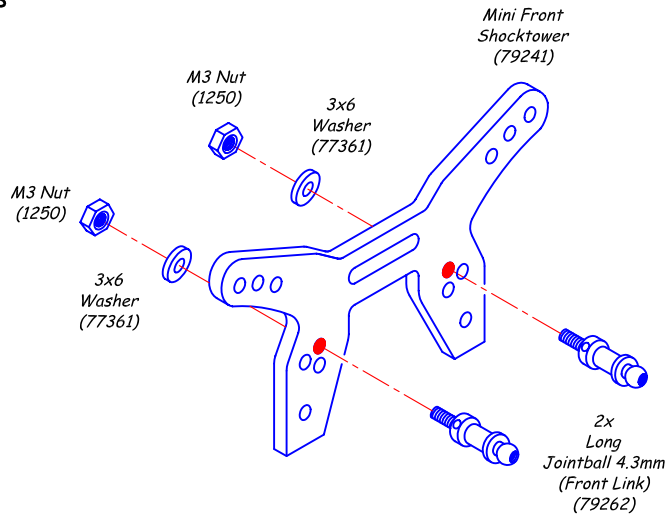
3x M3 Nut

3x M3 Washer

Bag 5 Chassis (Front)

Step 1

Mount the balljoints for the turnbuckles to the shocktower.



Step 2

Then mount the shocktower assembly to the chassis.

The front bumper can also be mounted. Slide it between the bulkheads and the chassis plate. To make it easier, the bulkheads screws can be loosened a couple of turns.

Then tighten the screws again.

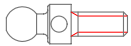
M3x8 FH (1245)

M3x8 FH (1245)

M3x8 FH (1245)

1x Rear Shocktower

4x Battery Holder



2x Short Jointball 4.3mm (Rear Link)



2x M3x6 RH



8x M3x6 FH



2x M3 Nut

2x M3 Washer

Bag 5 Chassis (Rear)

Step 1

Mount the balljoints for the turnbuckles to the shocktower.

2x Short Jointball 4.3mm (Rear Link) (79263)

Mini Rear Shocktower (79246)

Step 2

Then mount the assembly to the chassis.

The batteryholders can also be mounted. Mount them in the most forward position.

3x6 Washer (77361)

M3 Nut (1250)

3x6 Washer (77361)

M3 Nut (1250)

4x Batteryholder (79370)

Shocktower Assembly

8x M3x6 FH (1244)

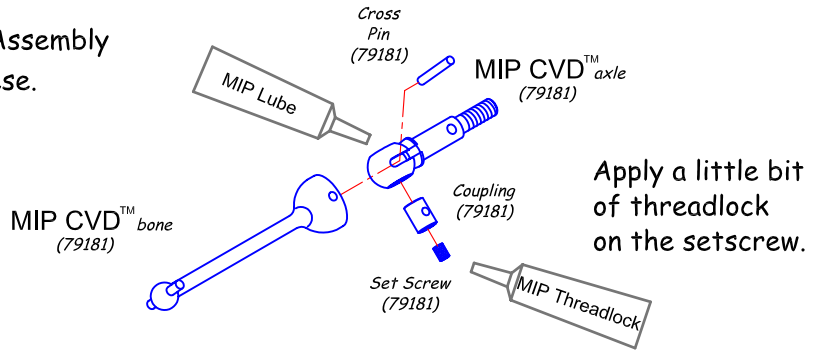
2x M3x6 RH (1246)

- 4x MIP CVD™ bone
- 4x MIP CVD™ axle
- 4x MIP CVD™ coupling
- 4x MIP CVD™ cross pin
- 4x MIP CVD™ setscrew

Bag 6 Suspension 1 (Subassembly)

Step 1

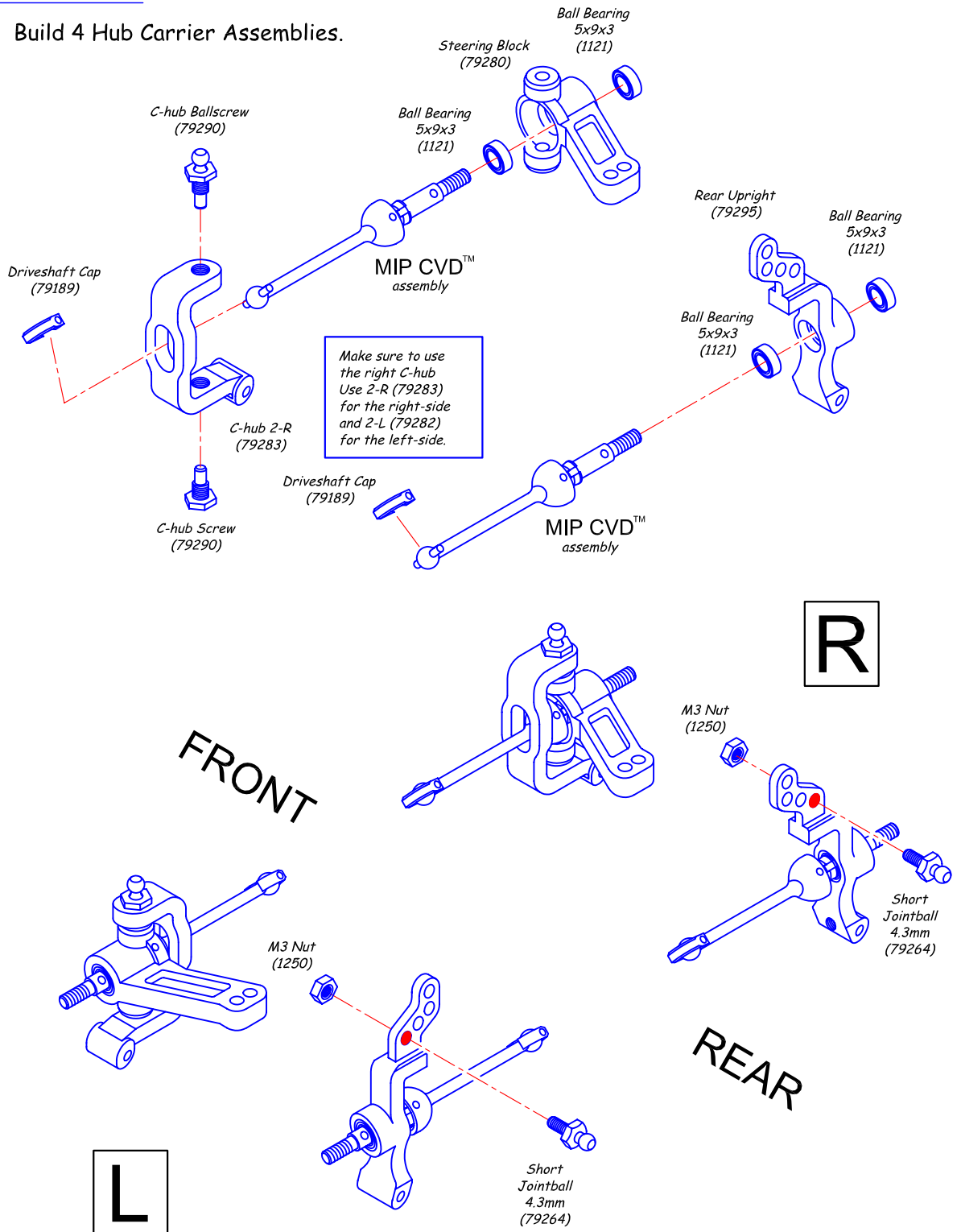
MIP CVD™ Assembly
Build 4 of these.



Step 2

Build 4 Hub Carrier Assemblies.

- 2x C-hub 0°
- 2x Rear Upright
- 2x Steering Block
- 4x Driveshaft Cap
- 2x Short Jointball 4.3mm (M3x5.5mm)
- 2x C-hub M5 Ballscrew
- 2x C-hub M5 Screw
- 8x Ball Bearing 5x9x3



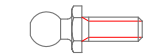
Bag 6 Suspension 1 (Front)

Step 1

Mount the hub carrier assemblies to the wishbones. Fit the assembly with the washers between the wishbone and slide a hingepin in the hole. Set the hingepin with a setscrew. Now the E-clips can also be mounted.

Step 2

The screws for the front shocks can also be positioned. But be aware that they are still loose.



2x Long Jointball 4.3mm (M3x7.5mm)



2x Outer Hingepin



2x M3x12 RH



2x M3x3 Setscrew

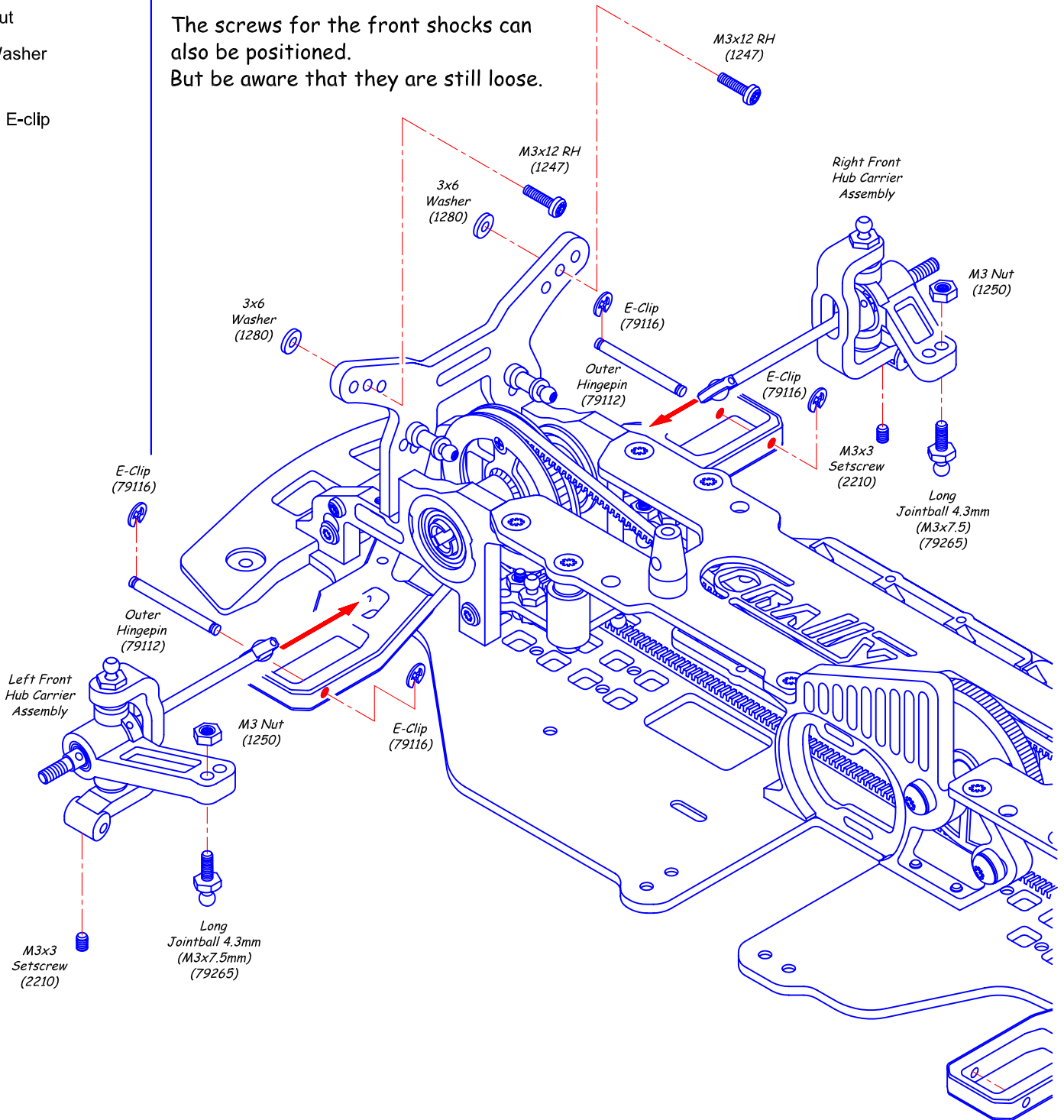


2x M3 Nut

2x M3 Washer



4x Small E-clip



Bag 6 Suspension 1(Rear)

Step 1

Mount the rear upright assemblies to the wishbones. Fit the assembly with the washers between the wishbone and slide a hingepin in the hole. Set the hingepin with a setscrew. Now the E-clips can also be mounted.

Step 2

The screws for the rear shocks can also be positioned. But be aware that they are still loose.

2x Outer Hingepin



2x M3x12 RH



2x M3x3 Setscrew

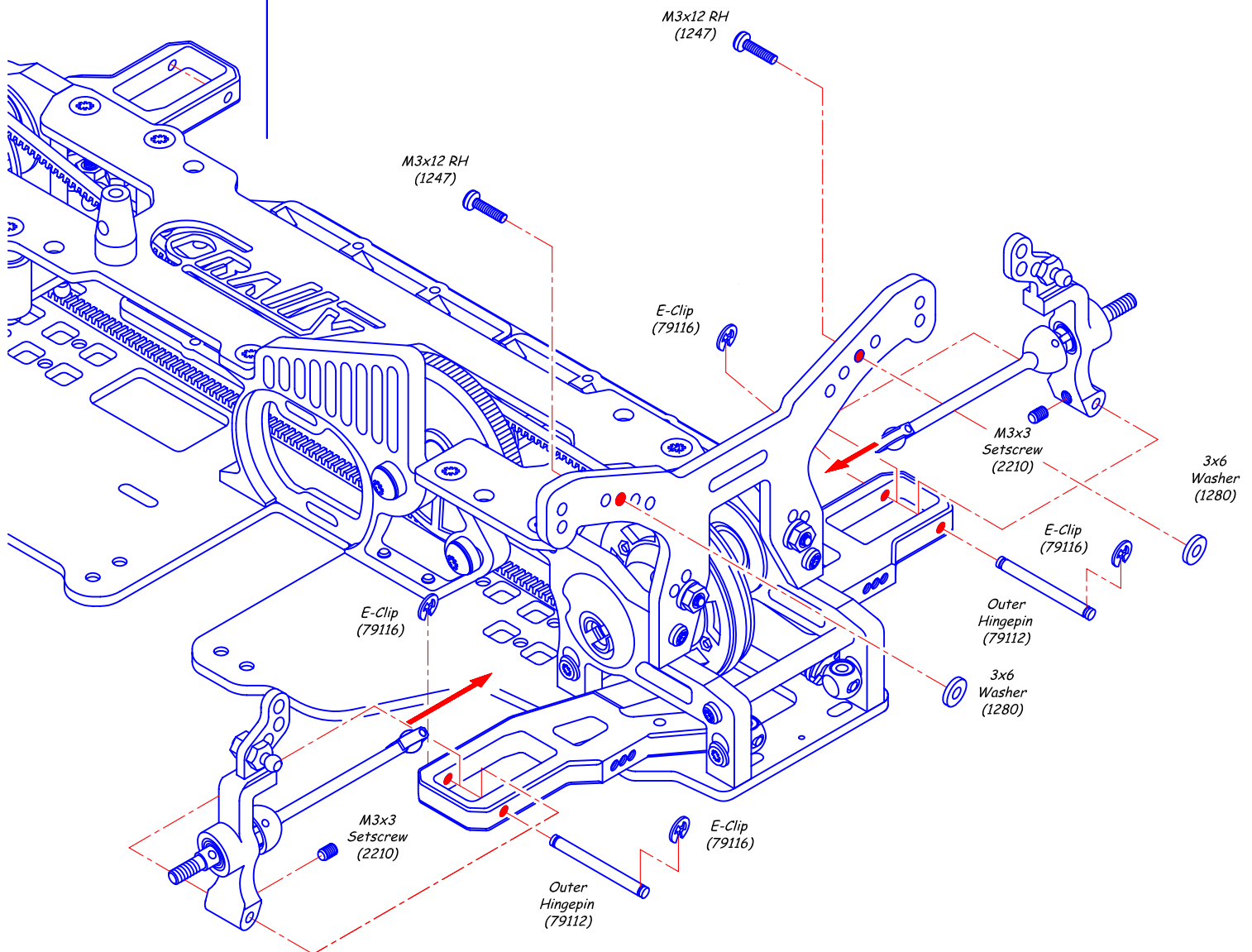


2x M3 Nut

4x M3 Washer



4x Small E-clip



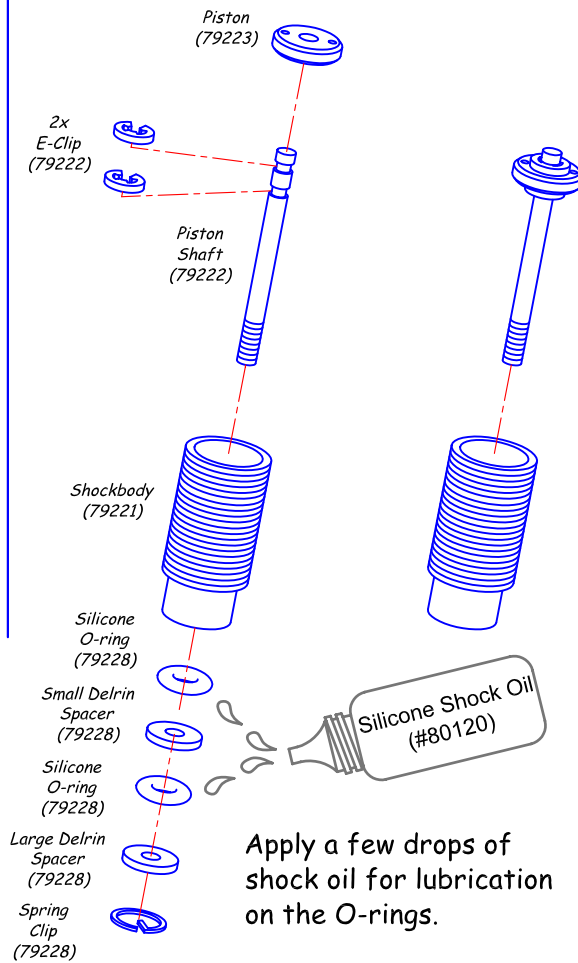
- 4x Shockbody
- 4x Spring Adjustment Nut
- 4x 13x1mm O-ring
- 8x Silicone O-ring
- 4x Shock Cap
- 4x Shock Shaft
- 4x Shock Top
- 4x Piston
- 4x Sealcap
- 4x Spring Collar
- 4x Ball End
- 4x Shock Diaphragm
- 4x Spring Clip
- 8x E-clip
- 4x Spring 17.0 lbs
- 4x Small Delrin Spacer
- 4x Large Delrin Spacer

Bag 7 Suspension 2 (Shocks) - PRE-ASSEMBLED

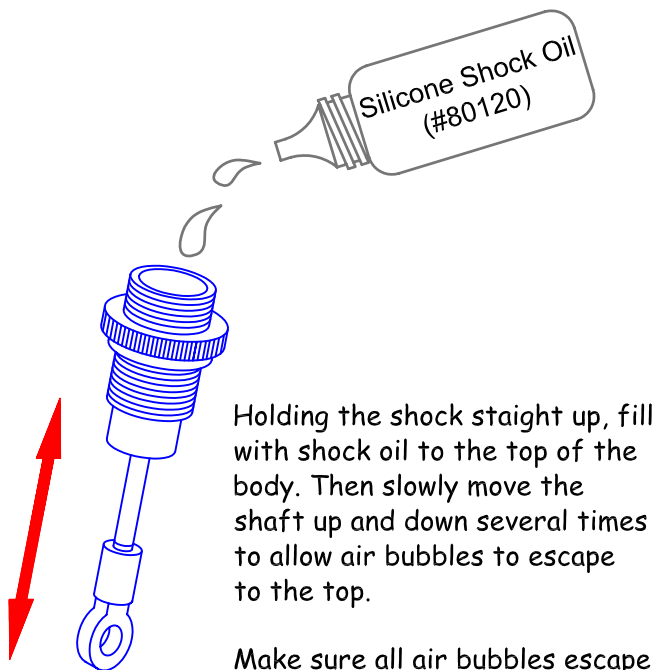
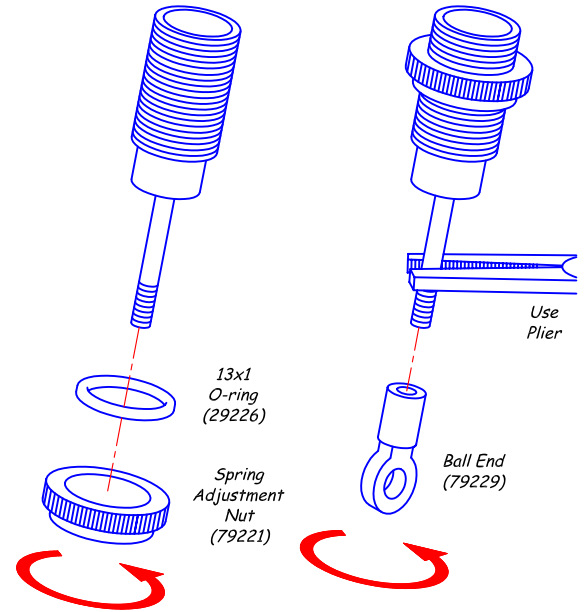
TAKE NOTE SHOCKS ARE PRE-ASSEMBLED WITHOUT SILICONE OIL!!
 Build 4 identical Shock Absorbers (#79220).
 Build them very carefully.

Use plier to hold shaft, but do not damage the shaft

Grip it close to thread.

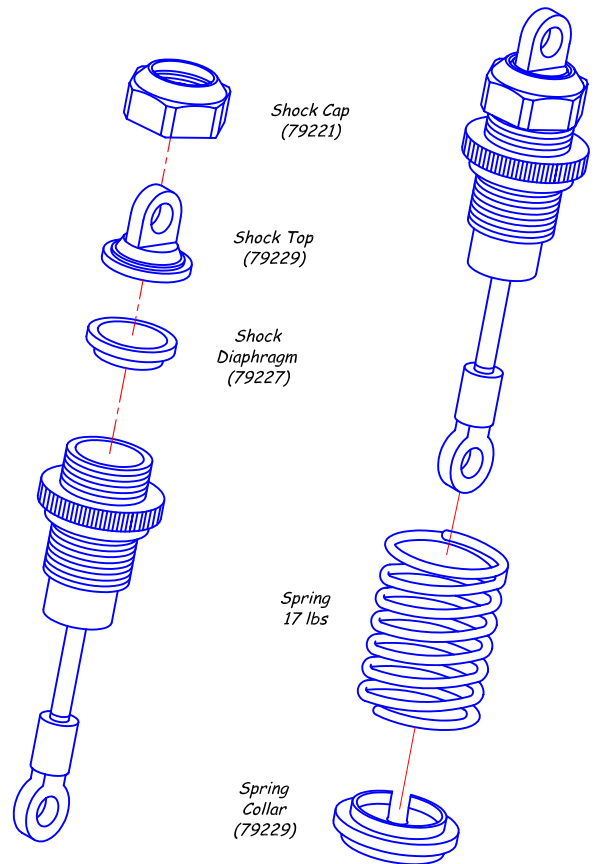


Apply a few drops of shock oil for lubrication on the O-rings.



Holding the shock straight up, fill with shock oil to the top of the body. Then slowly move the shaft up and down several times to allow air bubbles to escape to the top.






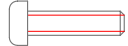

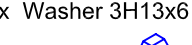
Make sure all air bubbles escape to the top then install shock diaphragm, shock top and aluminium shock cap.



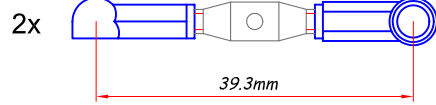
Bag 7 Suspension 2 (Front)

Step 1

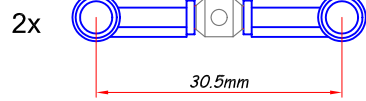
Assemble 6 Turnbuckles as shown. (Scale 1:1)

-  1x Turnbuckle 33mm
-  3x Turnbuckle 28mm
-  2x Turnbuckle 20mm
-  12x Ballcup (#79260)
-  4x Ø5.8mm Jointball
-  2x M3x12 RH
-  2x M3 Nut
-  2x Washer 3H13x6

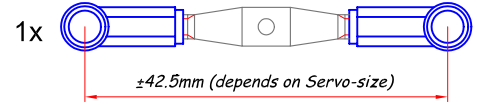
Front Camber Link (#79272)



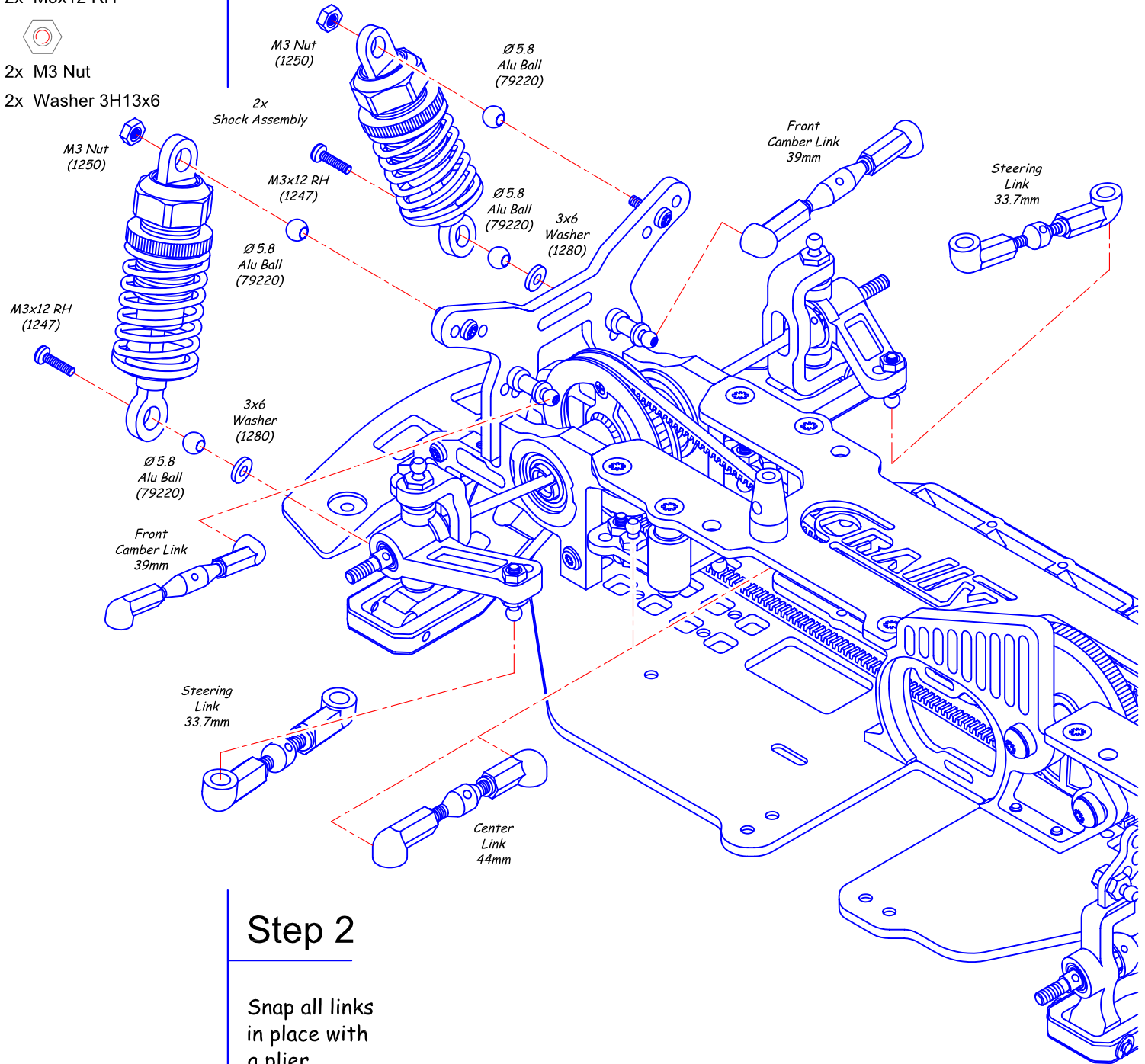
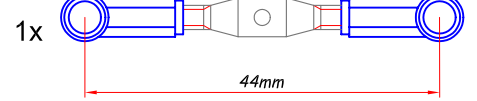
Steering Link (#79270)



Servo Link (#79272)



Center Link (#79271)



Step 2

Snap all links in place with a plier.

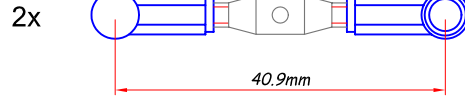
Snap the aluminium balls in the shocks and mount them to the shocktower and wishbones (inner hole).

Bag 7 Suspension 2 (Rear)

Step 1

Assemble 2 Turnbuckles as shown. (Scale 1:1)

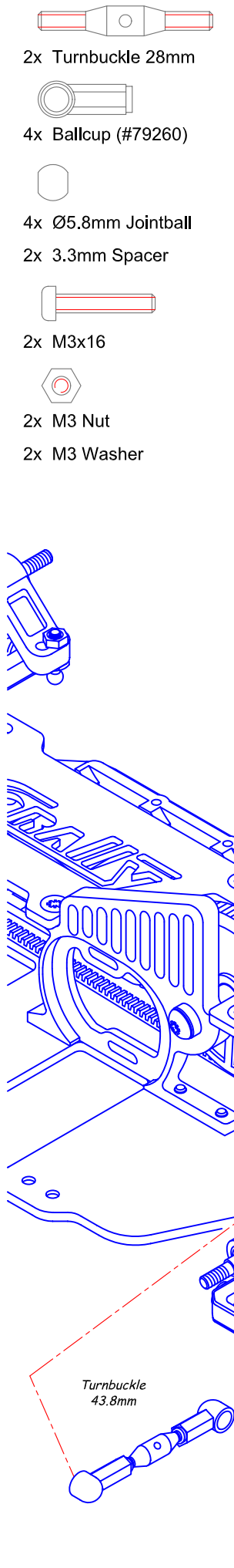
Rear Camber Link (#79271)



Step 2

Snap the rear camber links in place with a plier.

Snap the aluminum balls in the shocks and mount them to the shocktower and wishbones (outer hole).



2x Turnbuckle 28mm



4x Ballcup (#79260)



4x Ø5.8mm Jointball

2x 3.3mm Spacer



2x M3x16



2x M3 Nut

2x M3 Washer

Turnbuckle
43.8mm

3x6
Washer
(1280)

Alu
3.3mm
Spacer

Ø5.8
Alu Ball
(79220)

M3 Nut
(1250)

Shock
Assembly

Ø5.8
Alu Ball
(79220)

2x
M3x8 RH
(1248)

M3x8 RH
(1248)

M3 Nut
(1250)

Shock
Assembly

3x6
Washer
(1280)

Alu
3.3mm
Spacer

Ø5.8
Alu Ball
(79220)

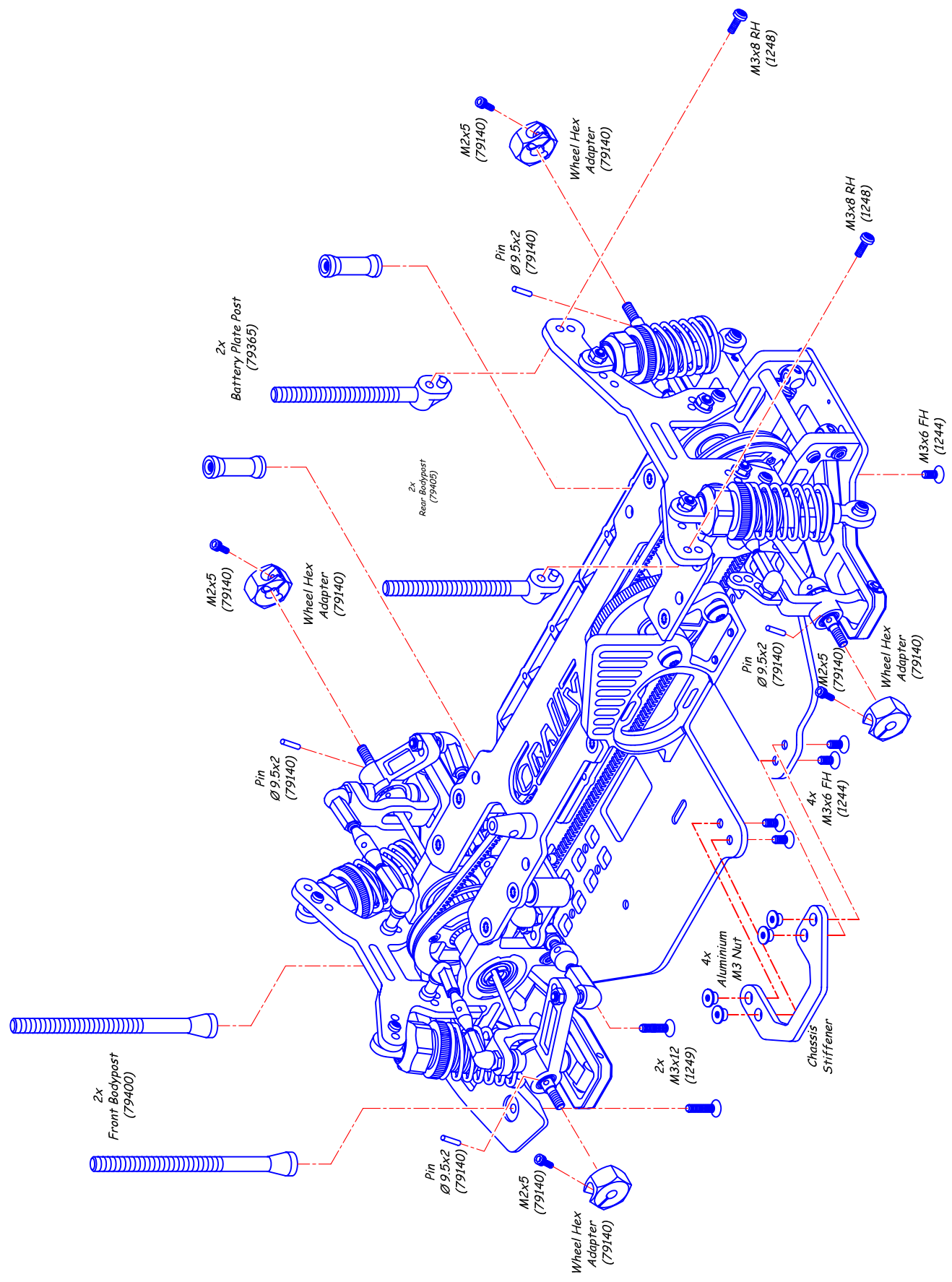
Ø5.8
Alu Ball
(79220)

M3x8 RH
(1248)

Turnbuckle
43.8mm

Bag 8 Finals (Wheelhex & Bodyposts)

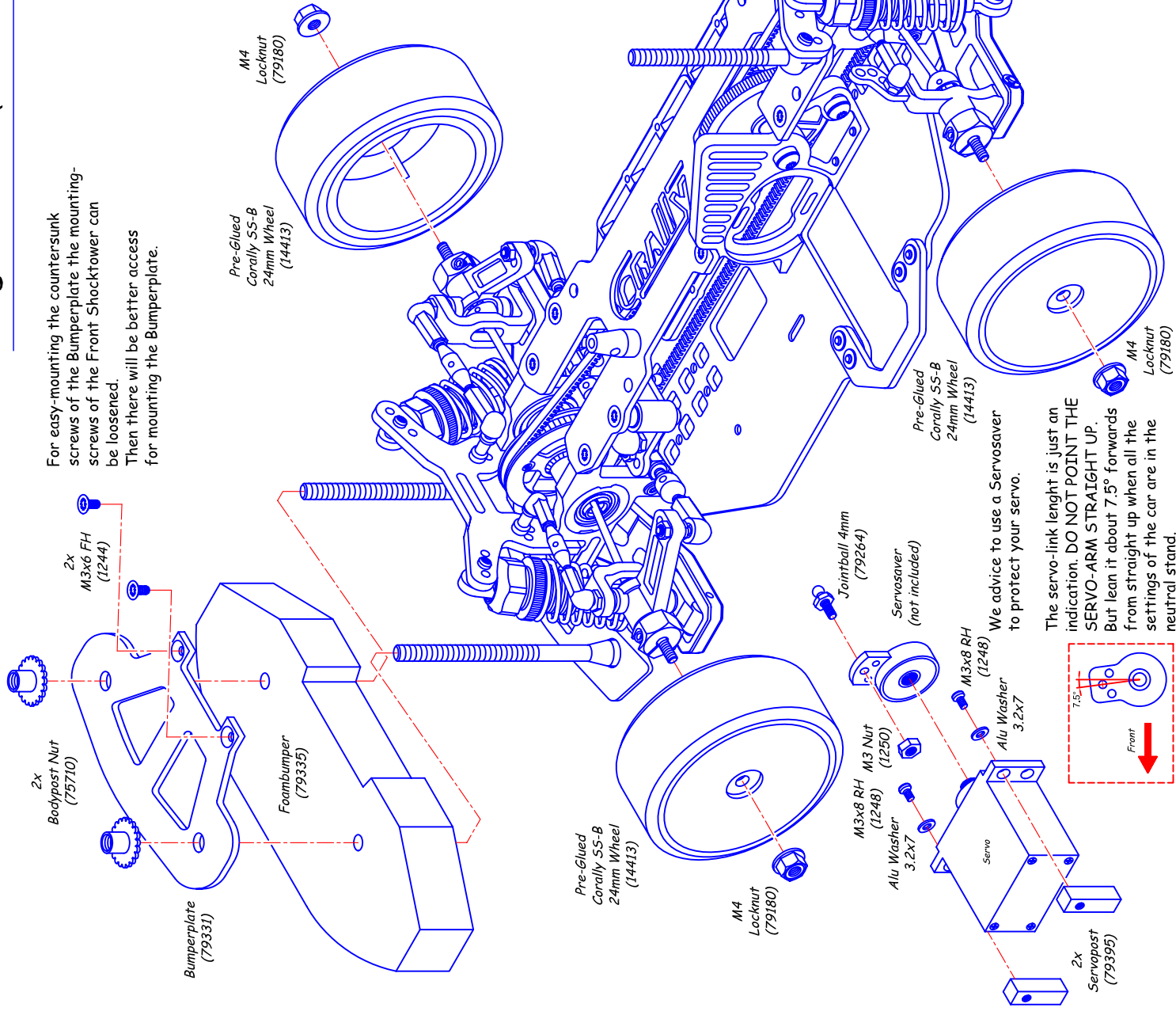
- 2x Front Bodypost
- 2x Rear Bodypost
- 2x Battery Plate Post
- 4x Wheel Hex Adapter
- 4x Pin Ø9.5x2
- 2x M3x8 RH
- 2x M3x12 FH
- 2x M3x6 FH
- 4x M2x5
- 2x M3 Washer



Bag 8 Finals (Wheels & Foambumper)

- 1x Foambumper
- 1x Bumperplate
- 2x Bodypost Nut
- 4x Pre-Glued Corally SS-B 24mm Wheel
- 1x Transponder Holder
- 2x Servo Post
- 2x M3 Washer
- 1x Short Jointball 4.3mm
- 2x M3x8 RH
- 2x M3x6 FH
- 4x M4 Locknut
- 1x M3 Nut
- 1x Transponder Holder

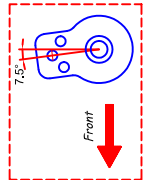
For easy-mounting the countersunk screws of the Bumperplate the mounting-screws of the Front Shocktower can be loosened. Then there will be better access for mounting the Bumperplate.



Not Included:
-Double-sided Tape

We advice to use a Servosaver to protect your servo.

The servo-link length is just an indication. DO NOT POINT THE SERVO-ARM STRAIGHT UP. But lean it about 7.5° forwards from straight up when all the settings of the car are in the neutral stand.



Bag 8 Finals (Electrics)

- 1x Battery Strap
- 8x Bodypost Nut



- 2x M3x6 RH



- 2x M3x8 FH



- 2x M3x6 FH

- 2x M3x3 Setscrew

- 2x M3 Washer

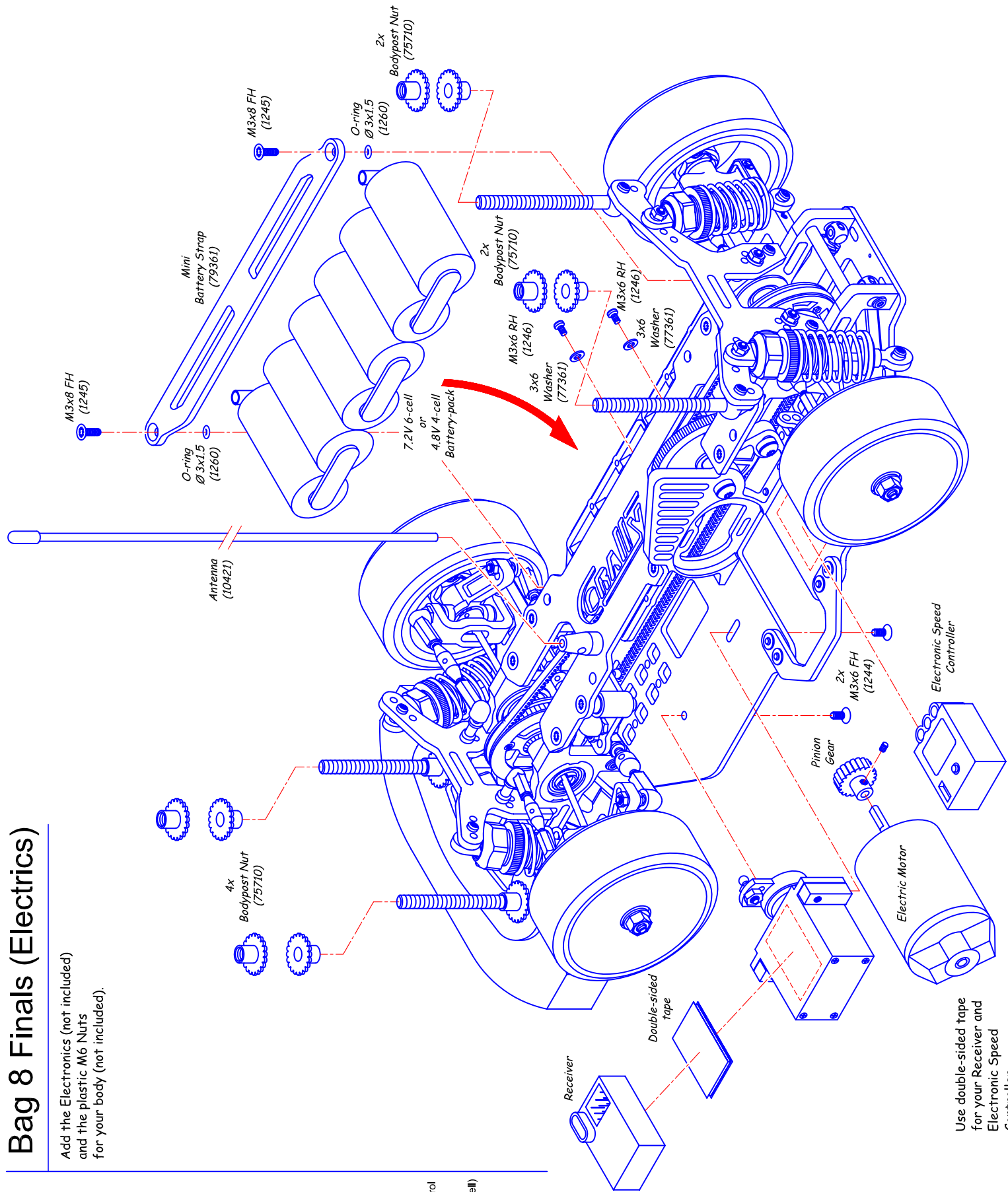


- 2x O-ring 3x1.5

Not Included:

- Servo with Servosaver
- Electronic Speed Control
- Receiver
- 7.2V Battery-pack (6-cell)
- Electric Motor
- Pinion Gear

Add the Electronics (not included) and the plastic M6 Nuts for your body (not included).



Use double-sided tape for your Receiver and Electronic Speed Controller.

Radio adjustments

Turn the transmitter on.

Make sure the motor is disconnected.

Connect your battery pack.

Turn the power switch on.

Make sure the wheels move in the correct direction. Turning the steering control left must move the wheels to left and turning it right must move the wheels to right.

Adjust the servo link that your servo saver is exactly rising up.

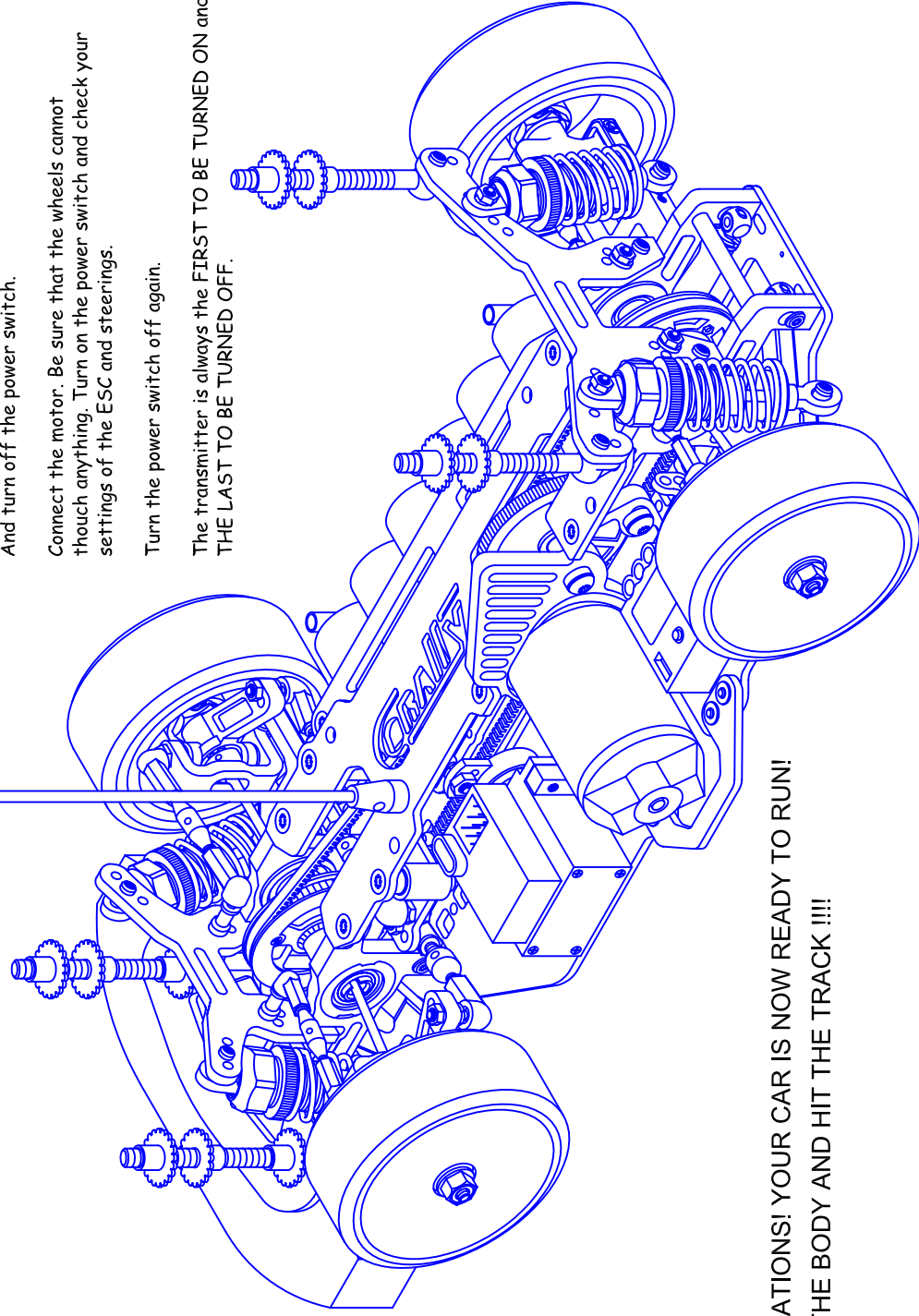
Using the two steering turnbuckles, adjust the front wheels so they are pointed straight ahead.

Adjust the Electronic Speed Controller according to your speed control manufacturer's instructions. And turn off the power switch.

Connect the motor. Be sure that the wheels cannot touch anything. Turn on the power switch and check your settings of the ESC and steering.

Turn the power switch off again.

The transmitter is always the **FIRST TO BE TURNED ON** and **THE LAST TO BE TURNED OFF**.



**CONGRATULATIONS! YOUR CAR IS NOW READY TO RUN!
SO PUT ON THE BODY AND HIT THE TRACK !!!!**

- 2x Stickpack Mount Part 1
- 2x Stickpack Mount Part 2

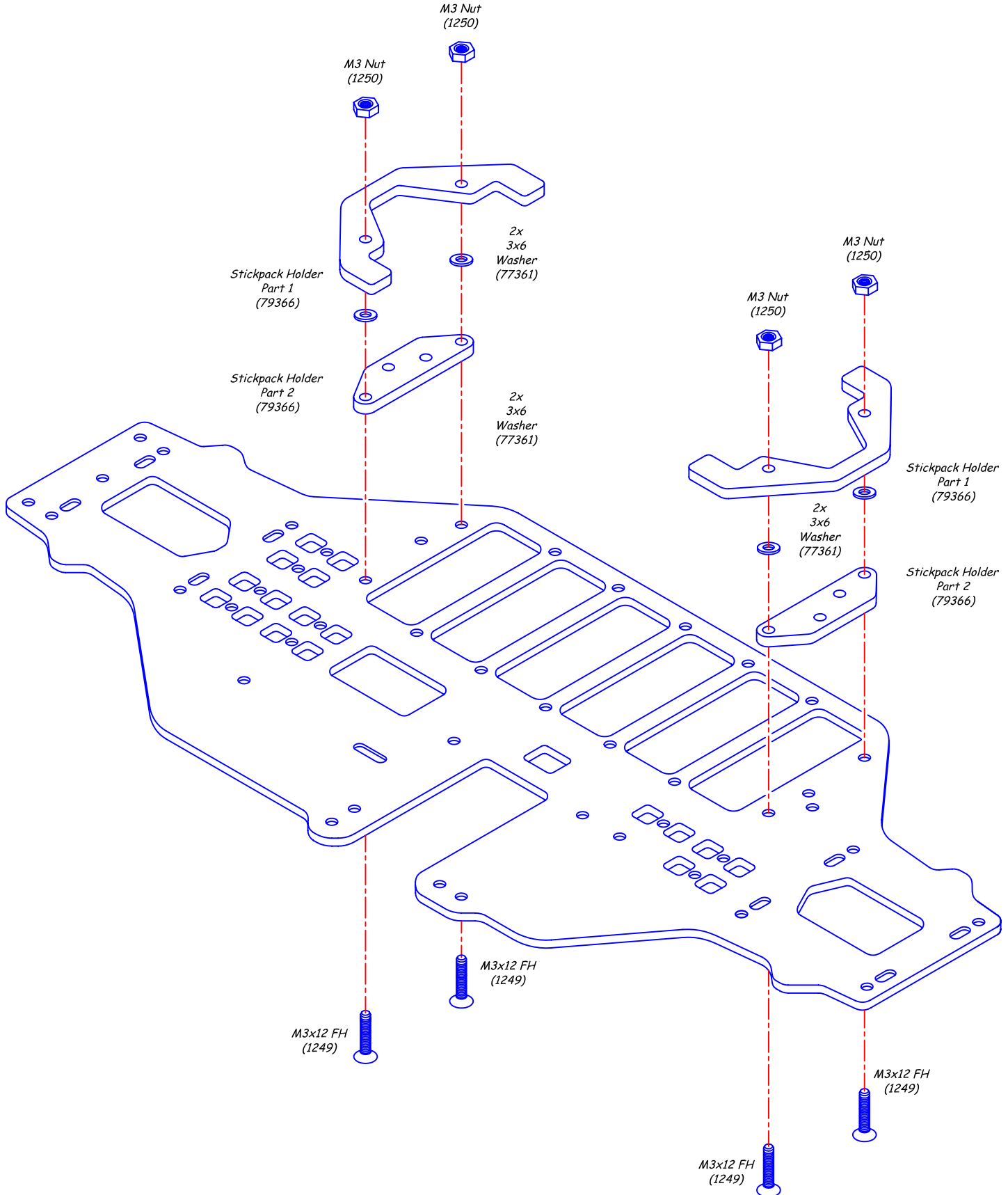
Optional Stickpack Holder

- 4x M3x12 FH

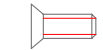
Step 1

- 4x M3 Nut
- 4x M3 Washer

Mount the two parts of the Stickpack Holder to the Chassis.



2x Battery Plate Post



4x M3x8 FH

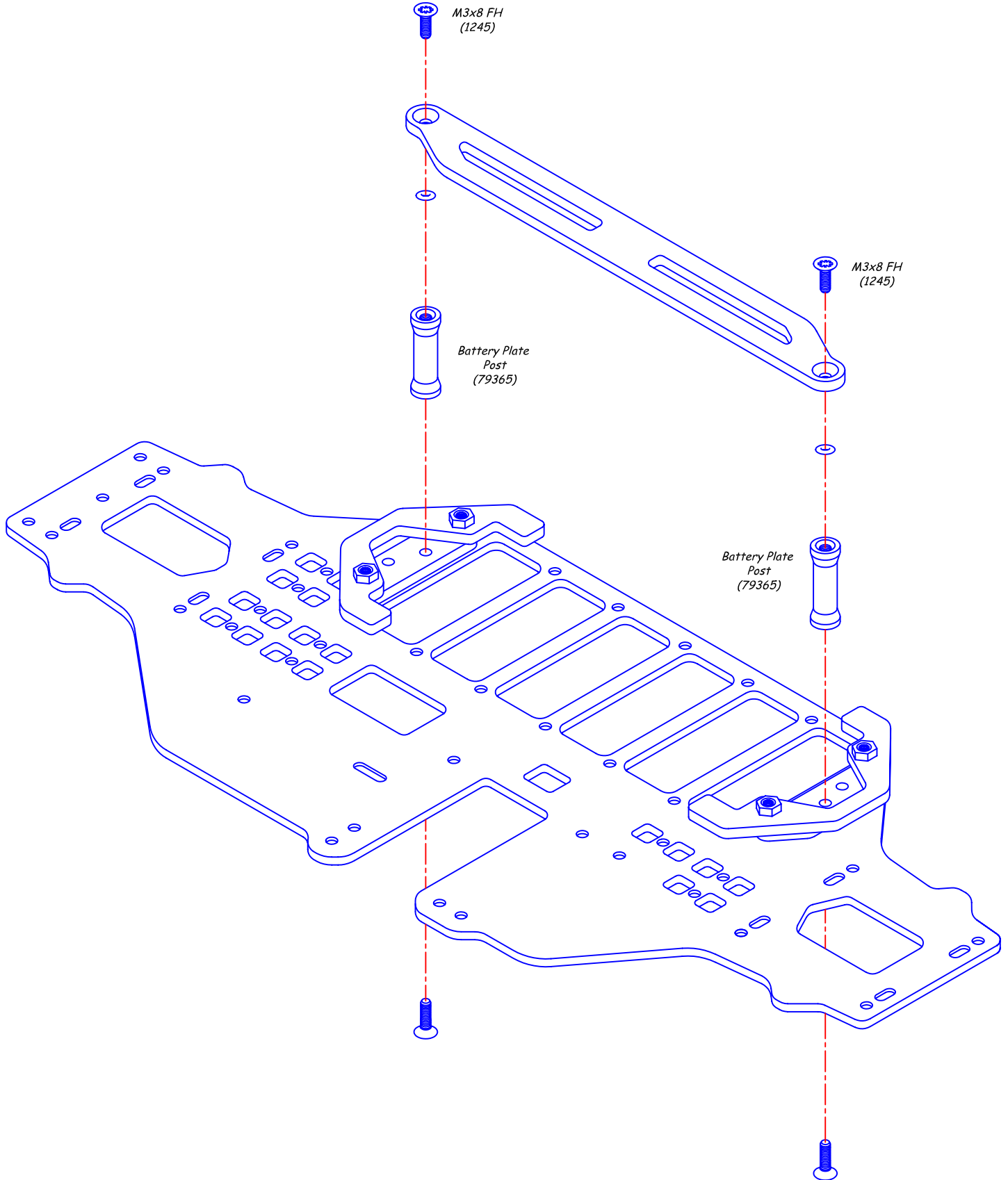


2x O-ring 3x1.5

Optional Stickpack Holder

Step 2

Mount the Battery Plate Posts and attach the Battery plate.





Driver: _____

Track / City: _____

Event: _____ Date: _____

SETUP SHEET

Front Suspension

Caster _____ Downstops _____ mm

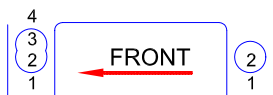
Kickup _____ Anti-roll Bar _____

Toe-in _____ Toe-out _____

Camber _____

Ride Height _____

Wheelbase _____
Adjustment _____

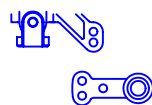


Front Shocks

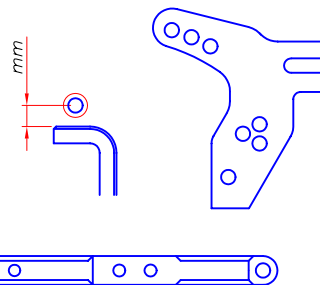
Oil _____ WT

Spring _____ lbs

Ackermann
Setting



Shock Mount &
Camber Link



Rear Suspension

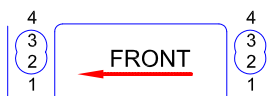
Anti-squat _____ Downstops _____ mm

Toe-in _____ Anti-roll Bar _____

Camber _____

Ride Height _____

Wheelbase _____
Adjustment _____

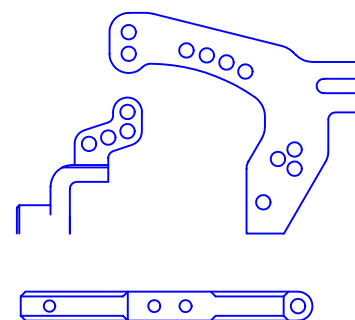


Rear Shocks

Oil _____ WT

Spring _____ lbs

Shock Mount &
Camber Link



Others

Front Tires _____ Compound _____ Insert _____ Wheel _____

Rear Tires _____ Compound _____ Insert _____ Wheel _____

Battery _____ 4-cell / 6-cell _____

Comments _____

Front Drive _____ Spur / Pinion _____ T / _____ T

Motor _____ Brush _____ Spring _____

Radio _____ Servo _____ ESC _____

Body _____ Wing _____

Tire Additive _____ Lead Weights _____ g

Track Conditions

Surface _____

Traction _____ Low / Medium / High

Composition _____

Temp. _____

Race Comments

Main _____ Finish _____ Qualifying Pos. _____

Notes _____

