

# RRP RX4 INSTALLATION GUIDE



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## 1. BATTERY POSTS

4 x tall posts; 2 x short posts; 2 top deck standoff posts. 8 x 6mm screws needed.



## 4. POST CLEARANCE

Clearance for body clips involves slight shaving of the long battery strap. Place strap on top of short posts and make markings.



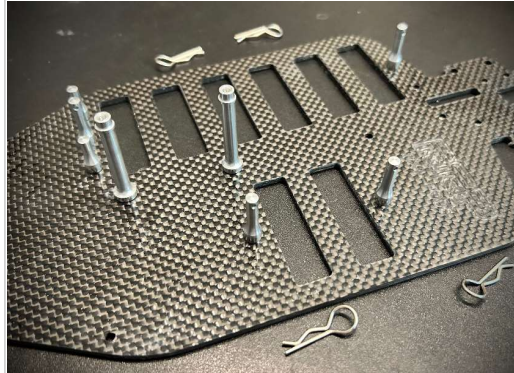
## 7. BATTERY STRAP INSTALL

Insert battery straps through all battery posts and secure with body clips. This completes this phase.



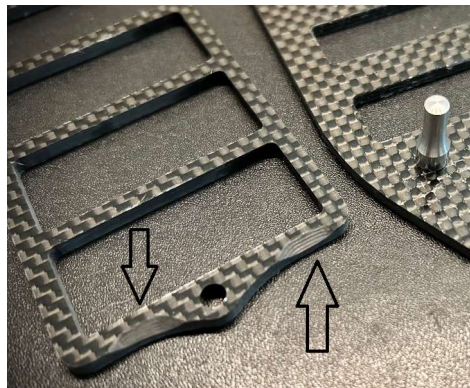
## 2. STANDOFFS

Attach posts to chassis as depicted. Use thread-lock as needed. Use 4 x body clips for final battery strap install.



## 5. CARBON MODIFICATION

Final modification shows the areas that were rounded with a Dremel bit. Please use protective eyewear and mask when handling carbon fiber cutting.



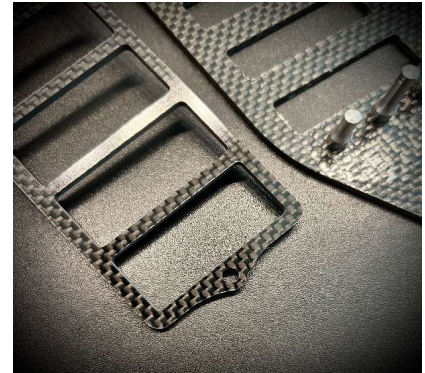
## 8. MOTOR MOUNT BEARING

4X8X3 bearings x 2 will be used to apply tension to the front belt. 1 x M3x10mm screw will pass-through the sleeve and secure the bearings to the motor mount.



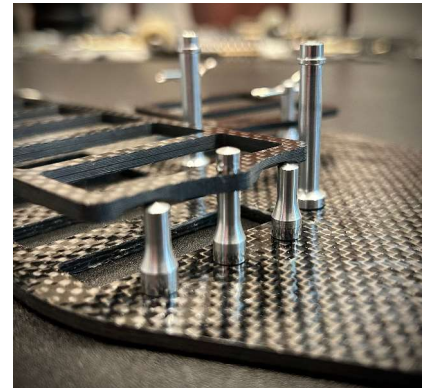
## 3. LONG BATTERY STRAP

Install long battery strap. Place on top of short standoffs to make the needed markings. See next image for details.



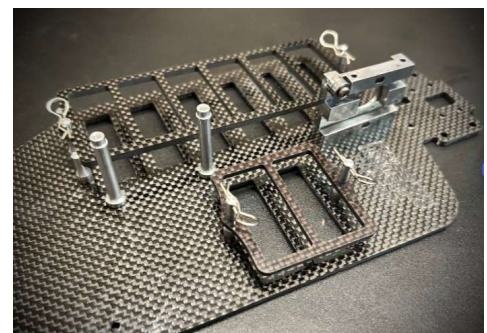
## 6. CLIP CLEARANCE

Insert body clip through body clip hole to ensure there is enough pass-through clearance.



## 9. ATTACH MOTOR MOUNT

Screw the motor mount from the underside of the chassis with the 2 supplied M3x6mm screws



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## DIFFERENTIAL ASSEMBLY



### DIFFERENTIAL COMPONENTS

33T pulleys x 2, 4 x outdrive halves, 2 x M2 screws, diff. rings, thrust bearings, 3/32 balls, 2 x lock washers, 4 x 4x8x3 bearings, and grease.



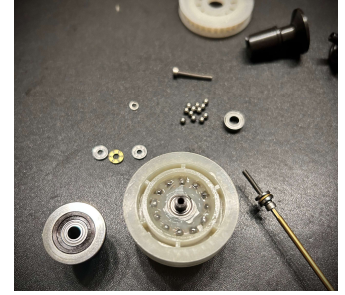
### 3/32 BALL BEARING INSTALL

Insert 12 x 3/32 ball bearings in the rear wide 33T pulley. Insert 4x8x3 bearing in pulley. Insert 4x8x3 bearing through none threaded outdrive side.



### APPLY GREASE

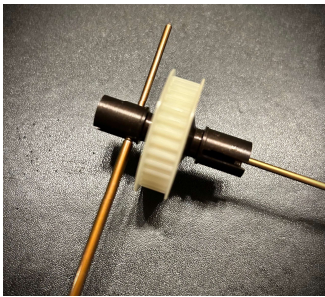
Gently apply differential grease to cover the 3/32 balls on both sides of the 33T. Remove any excess after application.



### OUTDRIVE ASSEMBLY

Insert none-shallow side of the pulley through the threaded outdrive half as shown. Pass M2 screw through lock washer and thrust bearings (3 pcs). Bearing ring in the middle as shown.

## REAR DIFFERENTIAL ADJUSTMENT



### TIGHTENING DIFFERENTIAL

Insert 1/16" HEX drive through screw placement side of outdrive. Insert narrow hex drive on shaft opening (crossways) to secure outdrive from spinning. Tighten carefully until screw reaches tightness. Test and adjust as needed.



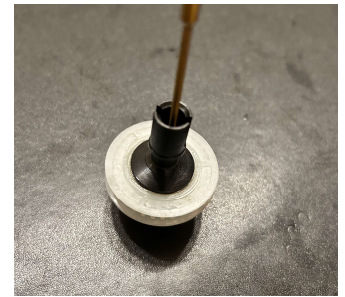
### FRONT OUTDRIVE

Insert 12 x 3/32 ball bearings in the front narrow 33T pulley. Insert 4x8x3 bearing in pulley. Insert 4x8x3 bearing through none threaded outdrive side. Apply grease to cover 3/32 balls surrounding the pulley.



### OUTDRIVE ASSEMBLY

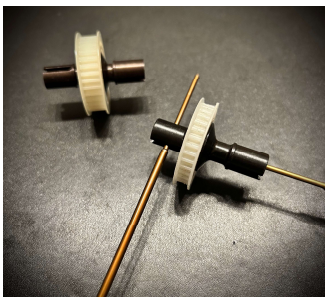
Insert shallow side of the pulley through the short (left side) threaded outdrive half as shown. Pass the M2 screw through the lock washer and thrust bearings (3 pcs). Bearing ring in the middle as shown.



### SECURING DIFFERENTIAL

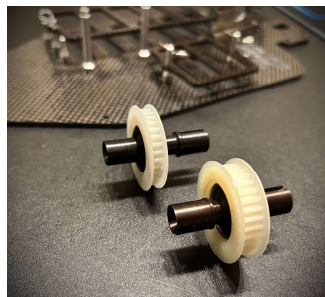
Insert 1/16" HEX drive through screw placement side of the outdrive.

## FRONT OUTDRIVE ADJUSTMENT



### TIGHTENING DIFFERENTIAL

Insert narrow hex drive on shaft opening (crossways) to secure outdrive from spinning. Tighten carefully until screw reaches tightness. Test and adjust as needed.



### DIFFERENTIALS COMPLETE

Front and rear outdrives are ready for installation. Set aside.



### FRONT-END ASSEMBLY

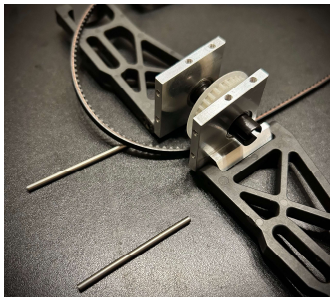
Gather the bag with front arms and front aluminum bulkheads. Obtain from 2.5mm titanium hinge pins, front tower, and 2 x 10X15X4 bearings.



### FRONT BULKHEAD

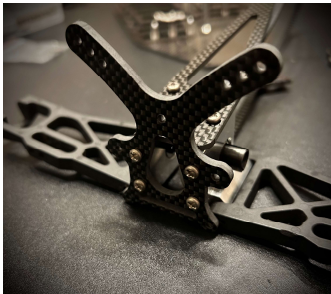
Insert 10X15X4 bearings on each side of the bulkhead. Shim long outdrive side as needed with supplied M10x14x0.3mm shims. Install front belt and place in 33t pulley. Attach both sides of bulkhead as shown.

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## FRONT HINGE PINS

2.5mm titanium hinge pins are inserted through the arms and front bulkhead pieces. Applying only 2 x 2.6mm hinge pin retaining screws on the rear of the arms.



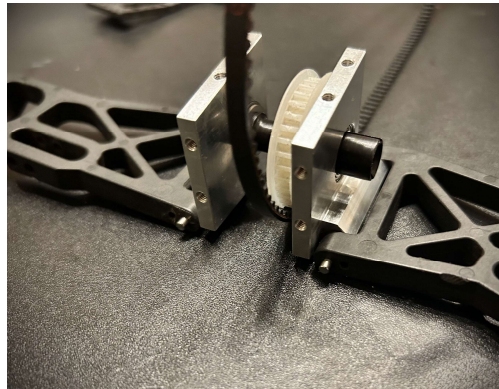
## FRONT SHOCK TOWER

Line up the front tower with the 2 x 2.5mm hinge pins with both bottom outside holes of the tower. Line up the front tower inner holes with the bulkhead.



## BULKHEAD SCREWS

The chassis will attach to the front bulkhead assembly with 4 x 3x10mm screws. It is important to line up all 4 holes, with the car resting upside down on a flat surface.



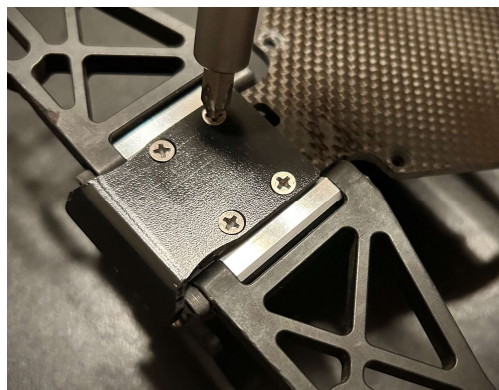
## ARM INSTALLATION

2.5mm hinge pins will be inserted and will stick out towards the front. The front shock tower will have 2 hinge pin retaining slots to go through the hinge pins.



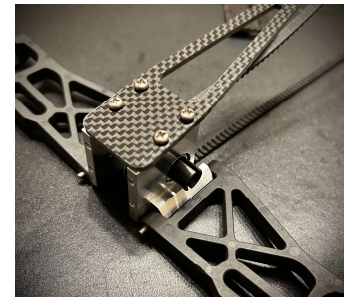
## TOWER AND TOP DECK POSITION

Install 4 x 3x6mm screws on the front tower and fasten on front bulkhead. The end result above will show the top deck against the front tower and edges flush with each respective resting surface.



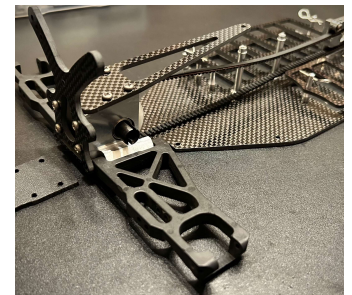
## FRONT BUMPER

Place the front bumper over the chassis so that its lined up with the 4 holes as shown. Set the 3x10mm flat head screws in each hole, and screw in a cross sectional pattern initially until reaching firmness. If resistance is found, please reposition and re-attempt.



## TOP DECK

It is important to install the front top deck piece before screwing the front bulkhead to the chassis. This allows the bottom holes of the bulkhead to line up properly. This also acts as a guiding method to line up the 4 x holes for the front shock tower.



## CHASSIS FRONT END

Place the assembled front end assembly on the chassis. It should rest on the chassis kick-up section as shown.



## FRONT HUB ASSEMBLY

Place front L & R hub were mud guard faces the front of the car as shown. Obtain front 2mm hinge pin and insert the supplied 2 white plastic spacers as shown. Slide the hinge pin thorough until reaching the other end.



### SET SCREWS

Install 2 x 2.6mm set screws on both sides of the outer arms to secure the hinge pins.



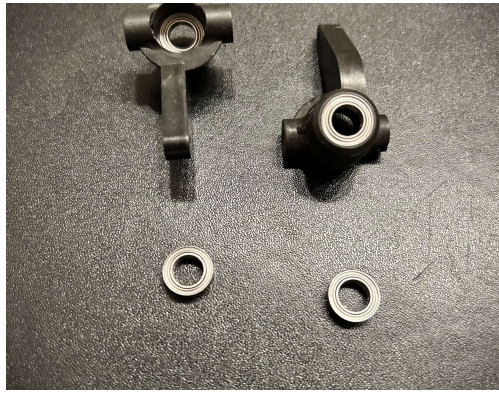
### C-HUB & WHEEL HUBS

Completed hub installation should be finished with 4 x 3x8mm screws that will be inserted through the king pin sleeves. Do not overtighten and ensure spindles spin freely. Use the roll pins provided with the set and place through CVD axles.



### ANTENNA POSTS

Obtain plastic antenna post and 1 x 3x6mm flat head screw.



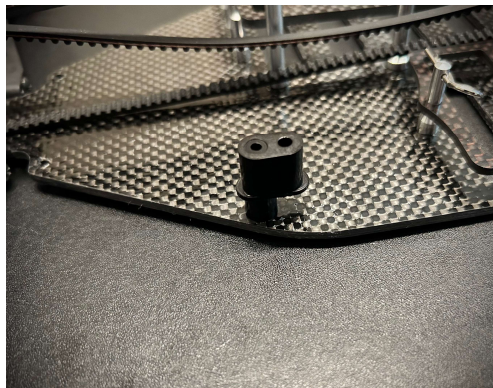
### BEARING INSTALLATION

Obtain 4 x 6X10X3 bearings and insert them as shown. In this section of the installation, please obtain 2 x front CVDs and 4 king pin sleeves as shown.



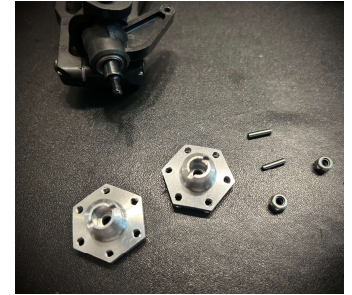
### SECURING WHEEL HUBS

Install nyloc nuts to secure the wheel hubs.



### ANTENNA POST INSTALL

Use the outside chassis hole to place the antenna post as shown above. Fasten the antenna post using the 3x6mm flat head screw.



### FRONT WHEEL HUBS

Install 2 front CVD. Slide front spindle through the C-Hub. Obtain the wider offset wheel hubs (12.5mm) for the front hub installation.



### 4.3 BALL STUD INSTALL

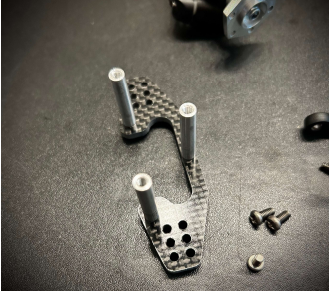
Obtain 2 x 2mm aluminum spacers and 2 x 4.3 ball studs. These will be attached to the steering arms.



### FRONT CAMBER LINK

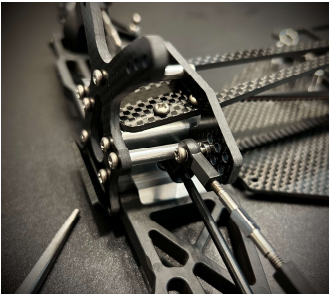
Obtain 3 x front tower standoffs, 4 x open ball ends, 2 x 42mm turnbuckles, 2 x short 5.8 studs, 2 x 5.8 long ball studs, 6 x 3x6mm pan head screws, and 2 x 3x14mm pan head screws.

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## CAMBER STANDOFFS

Inside camber plate holes are used for the installation. Use 3 x 3x6mm pan head screws.



## CAMBER INSTALL

Slide camber plate on top of the top deck front piece. Attach to the front tower with 3 x 3x6mm pan head screws.



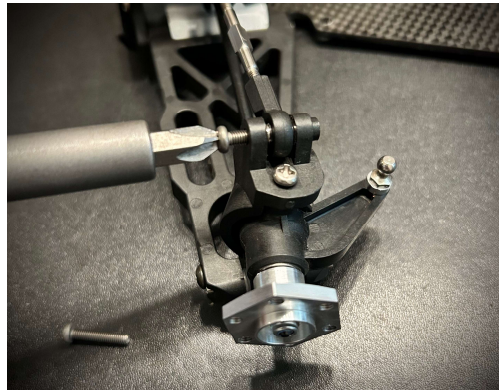
## TALL POST INSTALL

Attach tall steering post through the 3X6X2.5 bearings. Install the 5.8 stud as shown. Attach two 4.3 short studs where 2 are inserted from the top of the bell crank (outside holes), and 2 4.3 studs through the bottom of the bell crank. Inner holes.



## CAMBER LINK BALL CUPS

Insert 2 x 5.8mm short ball studs through 2 x plastic ends as shown. Insert through larger plastic opening



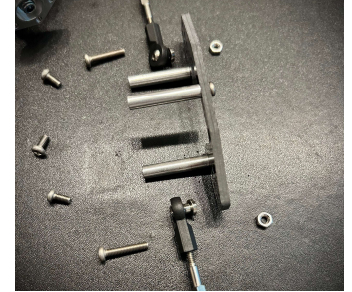
## C-HUB CAMBER LINK INSTALL

Attach the camber link to C-Hub with 2 x 3x14mm pan head screws.



## SERVO SAVER

Attach the servo saver nut until it is firmly pressing against the servo saver spring. Servo saver tube slides through the servo saver post as shown.



## INNER LINK INSTALL

Obtain 2 x 3x14mm pan head screws and 2 x m3 nuts.



## STEERING ASSEMBLY

Obtain all white steering plastics and attach as shown. Needed hardware: 2 x 3X6X2.5 bearings, 5 x 4.3 short studs, 5 x m3 nuts, 1 x long 5.8 stud, 2 nyloc nuts.



## BELL CRANK LINK

Attach 2 x ball cups to a 36mm turnbuckle as shown. Recommended measurement of threaded area is between 18mm-19mm. Attach through the bottom of the bell crank studs as shown.

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## STEERING INSTALL

Attach the pre-assembled steering assembly utilizing the supplied 35mm flat head screw and 3x6mm flat head screw.



## SHOCK SET

Unbag all shock components as shown.



## SHOCK HARDWARE

Obtain 4 x 30mm socket cap head screws, 4 x shock bushings, 4 x washers, 4 x nyloc nuts, and 4 x m3 nuts to mount the shocks to the shock towers.



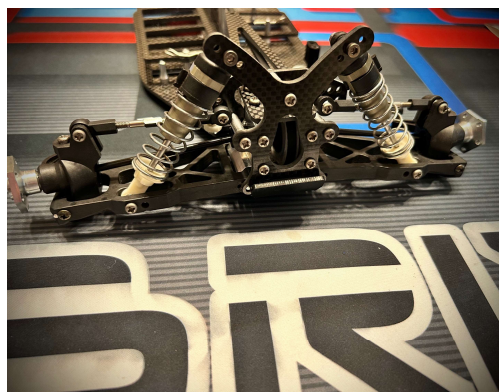
## STEERING LINK TURNBUCKLES

Obtain 2 x 52mm turnbuckles and 4 ball cups.



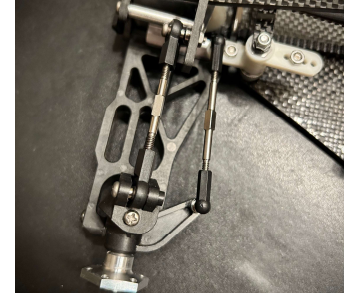
## SHOCK PLASTIC ENDS

Insert 4 x 5.8 short studs into shock plastic ends and attach to shock shafts. Slide shock collars through shock bodies as shown.



## FRONT SHOCK INSTALL

Install 2 x 3x20mm socket cap head screws on the front towers. Use 2 x m3 nuts to fasten the 3x20mm. Insert the shock bushing and slide the shocks through on to the bushings. Use 2 x 3x10mm pan head screws to attach the shock ends to the arms.



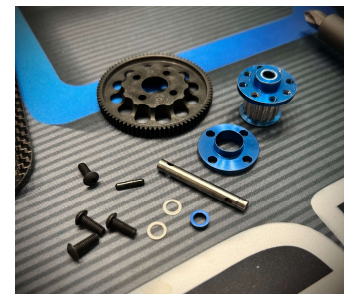
## STEERING LINK

Snap both sides of the steering ball cups into place. Adjust steering toe angle as needed.



## SHOCK ASSEMBLY

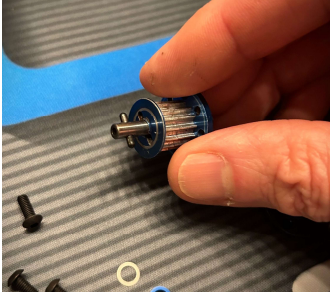
Install shock springs and cups as shown.



## CENTER LAYSHAFT

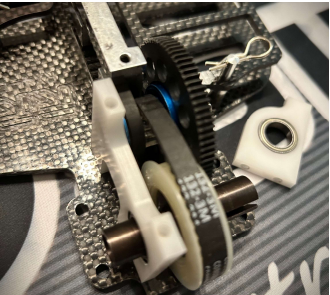
Unbag all center layshaft components as shown.

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## FRONT PULLEY

Slide front pulley through main shaft and insert roll pin as shown.



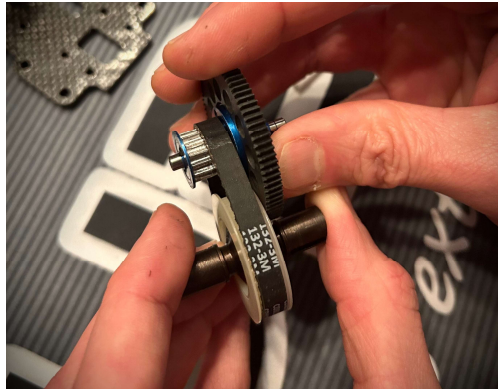
## REAR LEFT MOUNT

Obtain the rear left delrin bulkhead piece. Attach 1 x 10X15X4 bearing (diff.) and 1 x 4X8X3 (layshaft), and attach to the bulkhead piece. Slide differential outdrive through bearing. Slide layshaft through bearing.



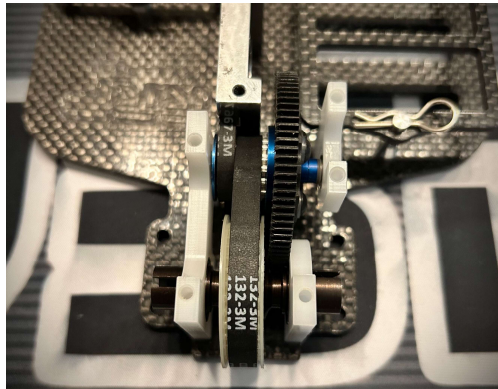
## REAR END ASSEMBLY

Unbag all rear end components as shown. 2 x Arms, 4 x 6X10X3 bearings, 2 x rear hinge pins, 2 x rear hubs, and 2 plastic spacers.



## SPUR GEAR AND BELT INSTALL

Insert the spur gear adapter inside the spur gear. Attach the front drive pulley to the adapter and attach using the supplied m3 screws. Insert the rear belt in the rear differential pulley and slide front pulley as shown above..



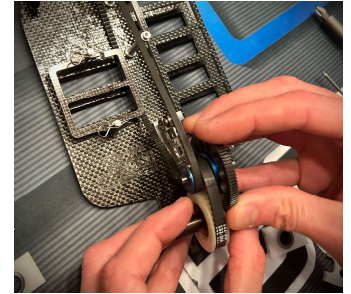
## REAR RIGHT MOUNTS

Obtain the rear right side differential mount and layshaft mount delrin pieces. Attach both 10X15X4 and 4X8X3 accordingly.



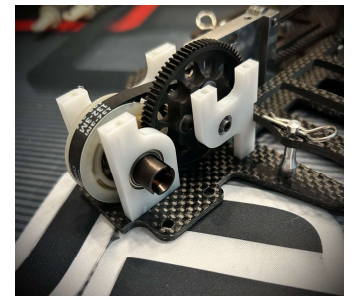
## REAR HUB ATTACH

Insert the 6X10X3 bearings into the hub. Slide hinge pin through outer hole, inserting through hub and reaching the other side of the arm. You may insert through upper hub hole as a starting configuration. Attach 2 x 2.6mm hinge pin set screws.



## FRONT BELT

Slide the front belt on to the front belt pulley as shown. Carefully move the belt through the motor mount belt slots.



## REAR BULKHEAD ATTACH

Fasten all 3 delrin bulkhead pieces to the chassis. Insert supplied 3x6mm flat head screws through the underside of the chassis and tighten accordingly.



## LEFT HUB ATTACH

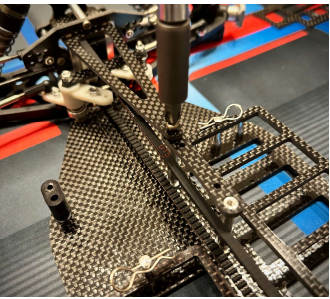
Repeat the process on the right arm and complete the assembly as shown above.

# RRP RX4 INSTALLATION GUIDE



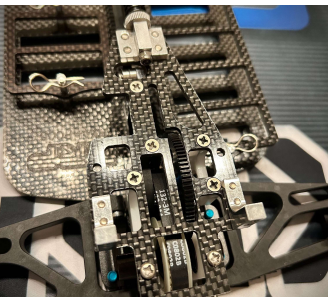
## REAR ARM MOUNTS

Obtain 2 x arm mounts, 4 x 8/32 ½ inch screws, 2 x 3mm rear hinge pins, and 2 x 2mm aluminum spacers.



## FRONT TOP DECK

Screw the front top deck piece to the front top deck standoff post using 1 x 3x8mm pan head screw.



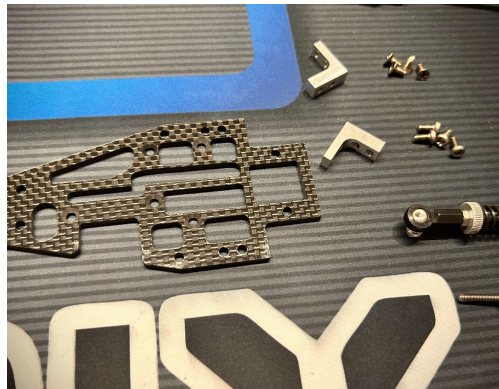
## TOP DECK FASTENING

Place the rear top deck over the rear bulkhead where the holes line up with the top deck. Line up the top deck compression spring with the rear top deck standoff and attach using a 3x14mm pan head screw. Attach 2 x 3x6mm flat head screws and screw on to the motor mount. Finally, attach 3 x 3x6mm flat had screws and 2 x 3x6mm pan head screws to the bulkhead.



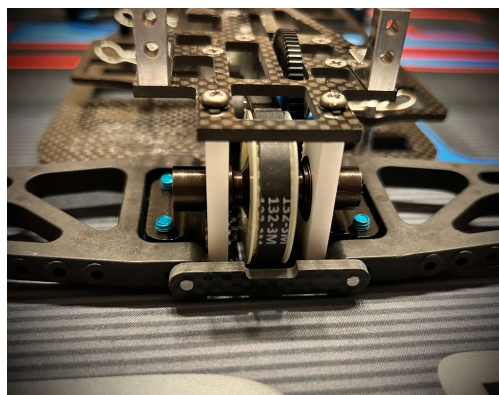
## REAR MOUNT ASSEMBLY

Slide the 3mm hinge pins through the front of the rear arms. Apply the 2mm spacer and slide hinge pin through the arm mount until it reaches the other end of the arms.



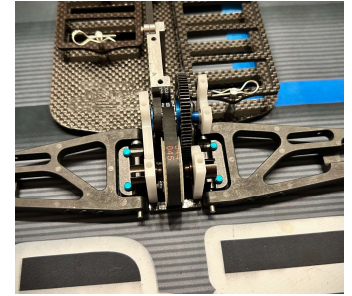
## REAR TOP DECK & COMP. SPRING

Unbag the rear top deck, 2 x L brackets, 4 x 3x6mm flat head screws, 4 x 3x8mm pan head screws, and top deck compression spring.



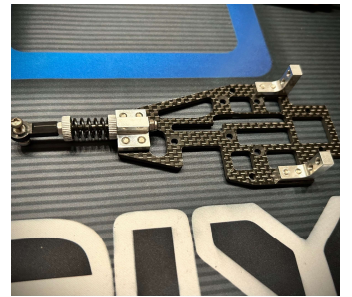
## REAR SUSPENSION ARM BRACE

Attach the rear suspension arm carbon brace.



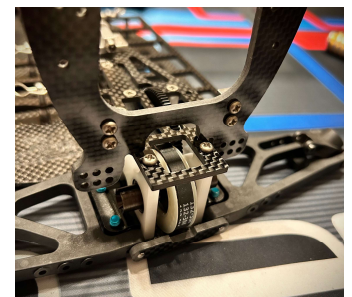
## ARM MOUNT INSTALL

Attach the assembled rear arm mount to the chassis utilizing the supplied 8/32 ½ inch screws as shown above.



## REAR TOP DECK

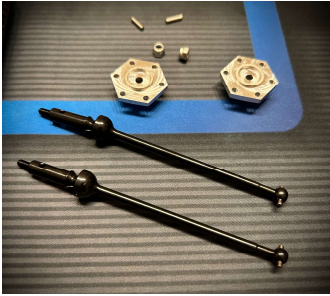
Attach the top deck compression spring to the rear top deck using 4 x 3x8mm pan head screws. Attach the L brackets using the 4 x 4 x 3x6mm flat head screws.



## REAR TOWER INSTALL

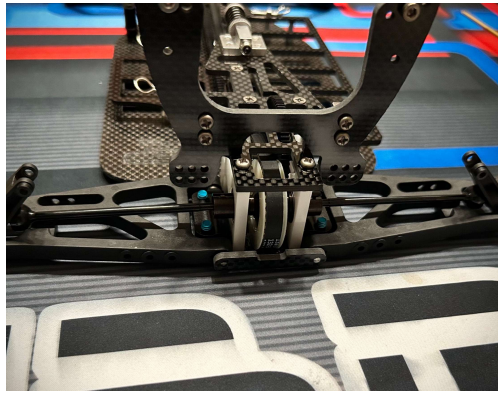
Attach the rear tower to the L brackets using 4 x 3x8mm pan head screws.

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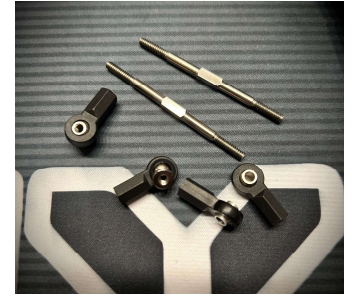
## REAR CVD SET

Unbag 2 x 79.5mm CVDs, 2 x rear wheel adapters, 2 x roll pins, and 2 x nyloc nuts.



## REAR CVD INSTALL

Inset both rear CVDs through the rear hubs as shown above. Apply black grease accordingly to CVD joint and where metal touches each other.



## REAR TURNBUCKLES

Unbag 2 x 52mm turnbuckles, 4 x open ball ends, 2 x short 5.8 studs, and 2 x long studs.



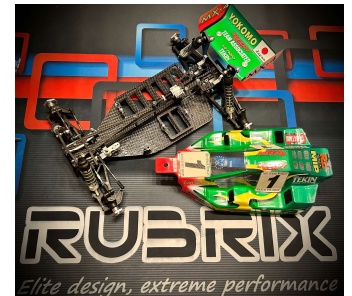
## REAR CAMBER LINKS

Attach open ball ends and install ball studs as shown. Obtain the supplied 4 x pan head screws and 2 fastening nuts.



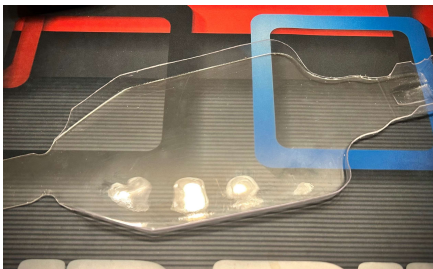
## REAR SHOCK MOUNTING

Install 2 x 3x20mm socket head cap screws on the rear tower as shown. Install 2 x fastening nuts to secure the socket cap screws against the tower. Install plastic spacers, and finish with the shock bushings. Install the shocks & secure with screws.



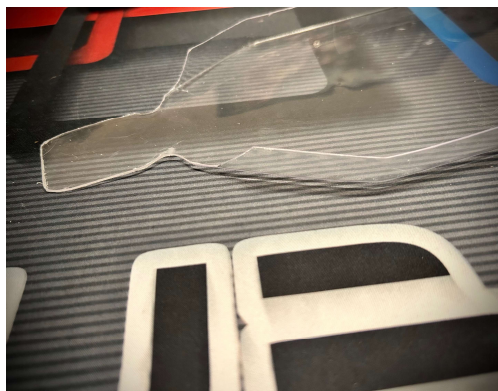
## BUILD COMPLETION

Assembly of the RX4 should have reached completion at this stage. Remaining items: Wing assembly and under tray installation.



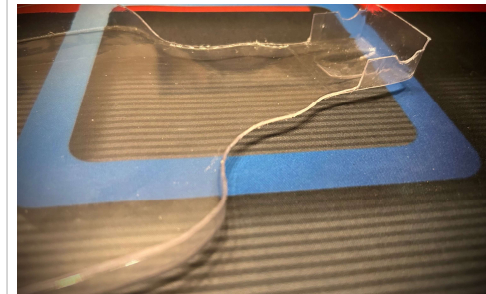
## UNDER TRAY

Follow the cut lines and trim the under tray as shown.



## FRONT NOSE

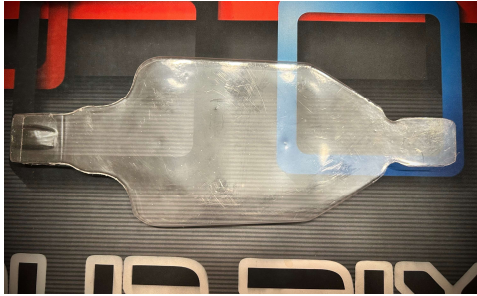
Carefully trim the front nose of the under tray.



## REAR GEAR COVER

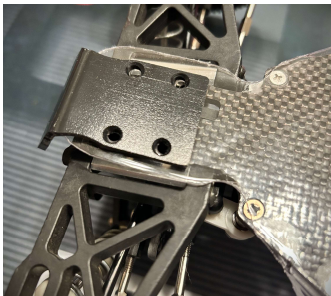
Follow the trim line for the rear gear cover.

# RRP RX4 INSTALLATION GUIDE



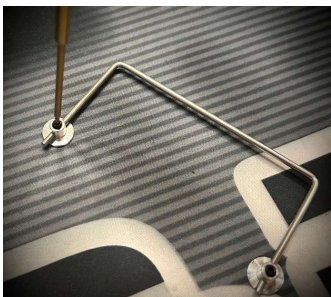
## COMPLETED UNDER TRAY

Once cuts are made, bend the rear gear cover box following the bend line. You may place a flat edge object (like a ruler), to hold down the under tray while bending.



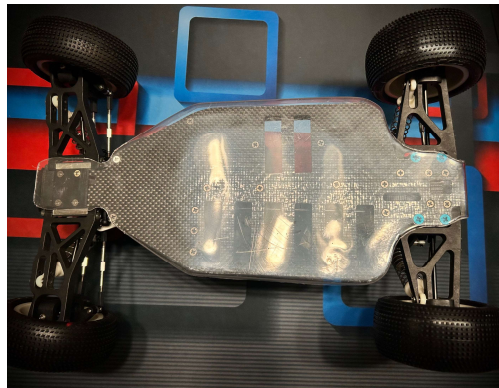
## FRONT BUMPER

After making the 4 x under tray holes for the bulkhead, remove the front bumper screws, lay the under tray, line up with the holes and place bumper on top. Re-install the screws.



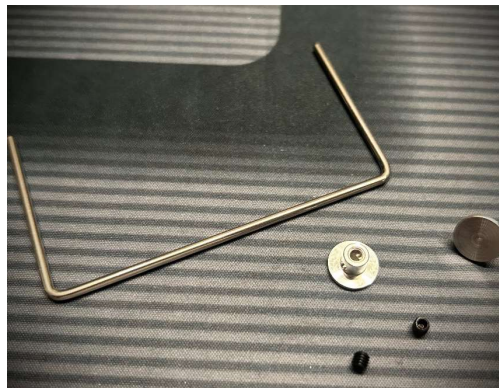
## WING BUTTONS

Slide wing buttons on wing wire and level both sides evenly.



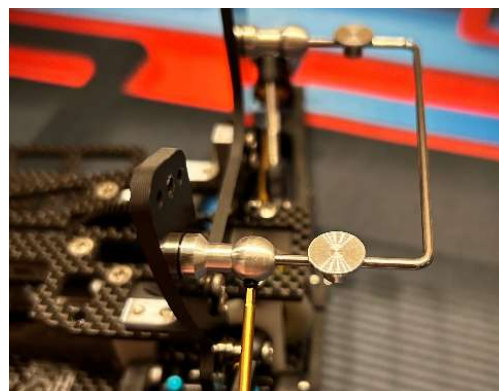
## UNDER TRAY INSTALLATION

Place the under tray against the under chassis and line up according to the shape of the chassis.



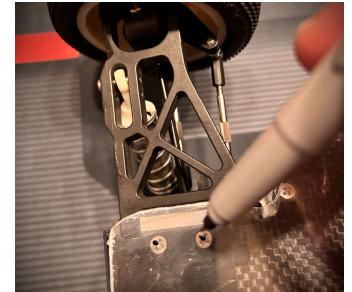
## WING MOUNT ASSEMBLY

Obtain the wing wire, 2 x wing buttons, and 2 set screws.



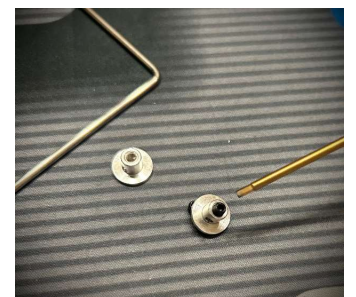
## WING WIRE INSTALLATION

Attach the wing wire to the wing bullets and screw the set screw into place.



## MARKING HOLES

Mark the front bulkhead holes on the under tray by laying the under tray over the screws.



## SET SCREWS

Screw set screws without screwing all the way in.



## WING INSTALLATION

You may now place your wing over the wing buttons and make the hole markings needed for hole drilling. Remove wing wire and install wing buttons on the perforated holes and repeat the re-assembly steps.