

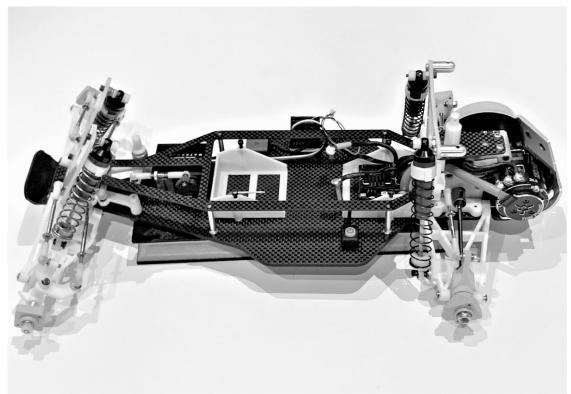
ASSEMBLY MANUAL

RC10'91 DETROIT IFMAR WORLDS REPLICA CONVERSION KIT



INTRODUCTION

- Firstly; A MASSIVE THANK YOU FOR YOUR SUPPORT AND PASSION!
- We would like to thank you for purchasing our GP3D RC10'91 Detroit IFMAR Worlds Replica Conversion Kit. As you have purchased this kit it means you are passionate about the history of our beloved R/C hobby and in particular one of the most iconic R/C cars we have seen → the prototype from Team Associated and Masaaki that took Masami Hirosaka to the 1991 IFMAR 2WD World Championship at the daunting and unforgiving Detroit track in Michigan, USA.
- GP3D and our manufacturing partners have been progressively looking into <u>reproducing</u> some of the additionally required 'original' components, including; turnbuckles, motor plate/guard and alloy stand-offs, wing mounts, axles, hinge pins, ball cups/studs...etc, therefore please keep following our <u>FB page</u> and <u>website</u> for those and more future developments...
- Some 3D printed parts, including the suspension arms are printed at ~45-degree angle to maximise layer adhesion area and balance directional strength distributions, resulting in some edges not being 'pretty', but these and any small surface artefacts can be trimmed and sanded as desired to clean up the rough edges. Some items are printed with a brim (one thin layer surrounding the part to aid in bed adhesion during printing). This needs to be cut off with a scalpel and then the remaining edges can be sanding smooth as desired. Refer to the initial 'PRINTED PARTS PREPARATION' step for further details and illustration.
- We hope you love and enjoy building, displaying and driving your RC10'91 Detroit replica, we are always available to help and support with any questions or issues you may have. We would also love to receive pictures of your in-progress and finished models in your chosen style and liveries that we can share online!
- Please contact us if needed: grand.prix.3d@gmail.com OR via FB Messenger
- Information and spare parts are available in our online shop: <u>www.GrandPrix3D.store</u>



Our replica build...

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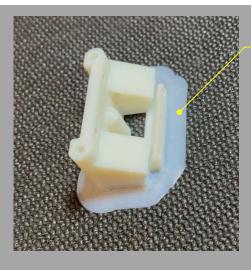


ICONS & SYMBOLS

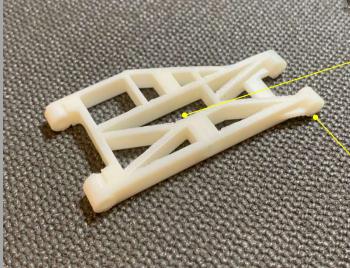
1	Dotted line	Dotted line indicates assembly path/routing of bolts into parts
	Arrow	Indicates direction of part for movement to assemble
	Reverse Angle	Inset image showing the reverse/different angle
•	Item Not Included	Refers to an item not included in this kit
?	Optional Items	Optional items recommended from GP3D or an OEM
L&R	Left & Right	Indicates you need to repeat this step for Left and Right sides.
\odot	Drill	Drill out existing hole with provided 2mm or 1.5mm drill bit
${igodot}$	NO Drill	Do NOT drill holes (as bolt threads in)
	Clean up	Clean up part/edges with scalpel and/or sand paper
۲	Gentle	Exercise care and love and gently tighten!
i	Information	Indicates some extra information or hints or options
<u>.</u>	Very Important!	Highlights a very important item to take note
0	Check	Check your assembly matches the picture



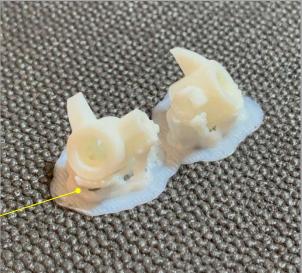
PRINTED PARTS PREPARATION



3D Printing "Supports" – remove with pliers, clean up with scalpel then sandpaper



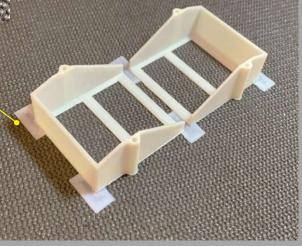
3D Printing "Brim" – slice off with scalpel, clean up edges with sand paper



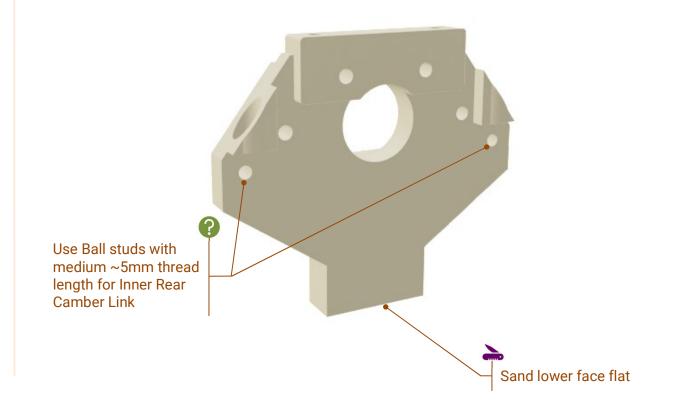
3D Printing "Overhang" – lower surfaces with rough/jagged edges can be trimmed with scalpel and clean up with sand paper

Hinge pin holes are slightly undersized and need to be drilled/reamed to suit your hinge pins

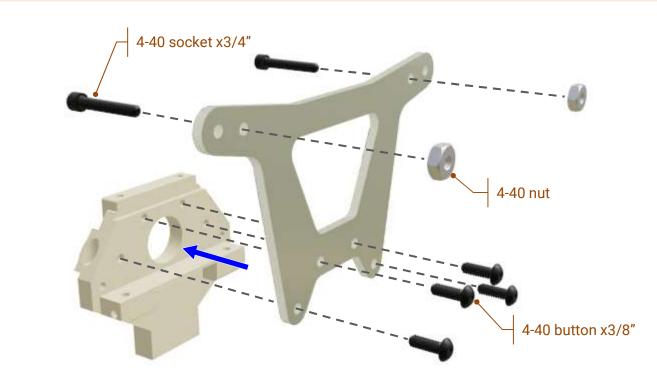
3D Printing "Brimlets" – as per Brim; slice off with scalpel, clean up edges with sand paper



STEP 1.1 - REAR BULKHEAD

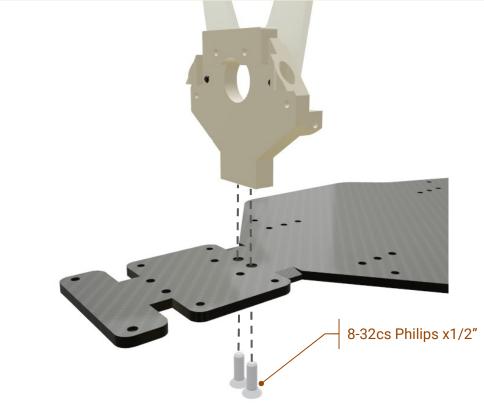


STEP 1.2 - REAR SHOCK TOWER





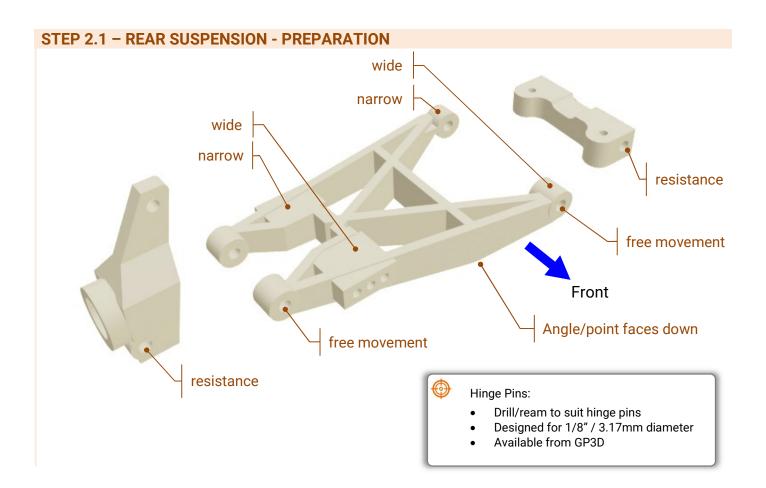
STEP 1.3 – REAR BULKHEAD ASSEMBLY TO CHASSIS

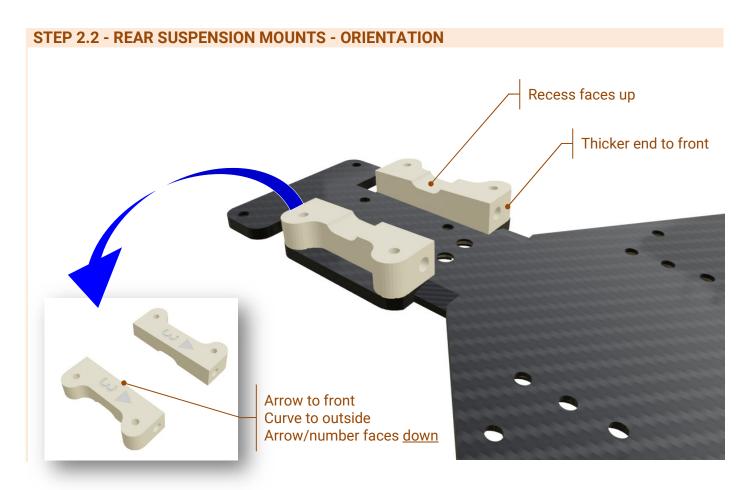


STEP 1 - COMPLETED

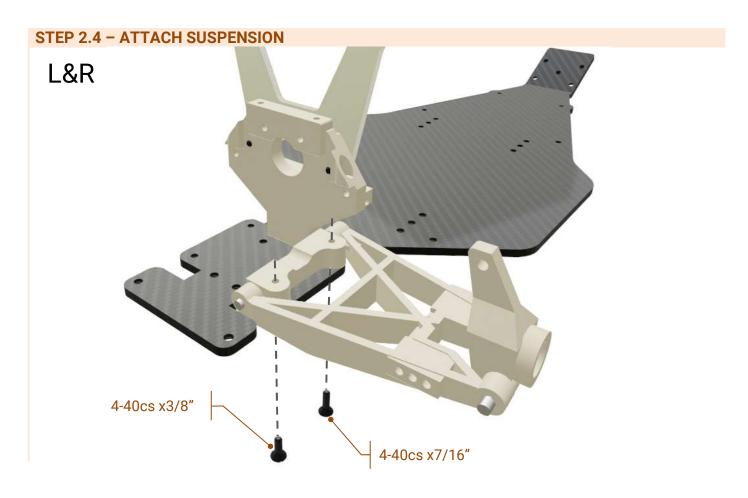


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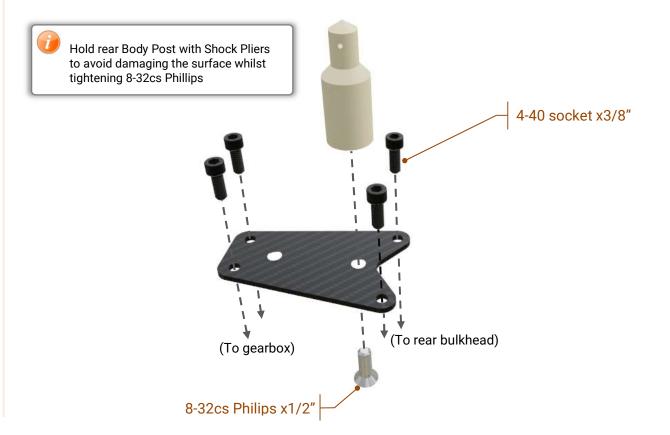




STEP 2.3 – REAR SUSPENSION L&R Use Ball studs with long ~7.5mm thread length Right OPTION Hinge pins 51mm 4-40 socket x3/4" (for lower Shock mount)

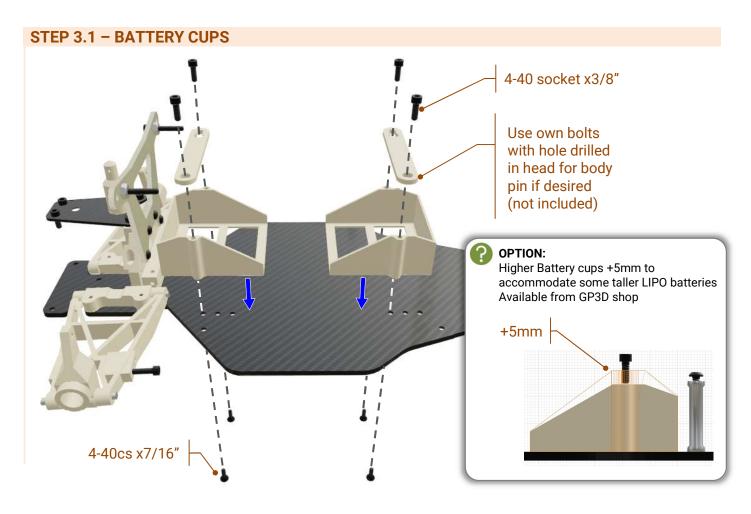


STEP 2.5 – GEARBOX BRACE

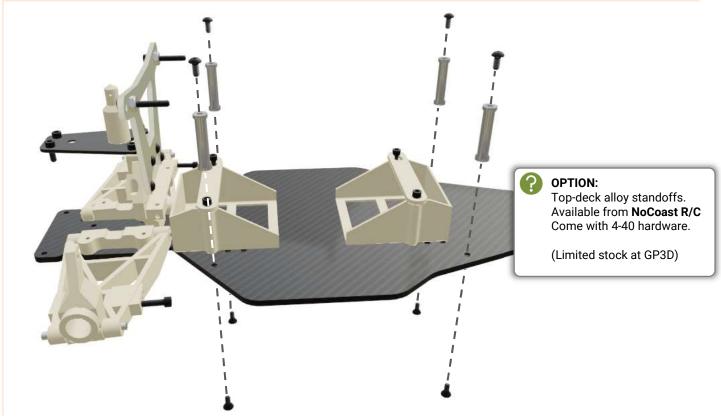


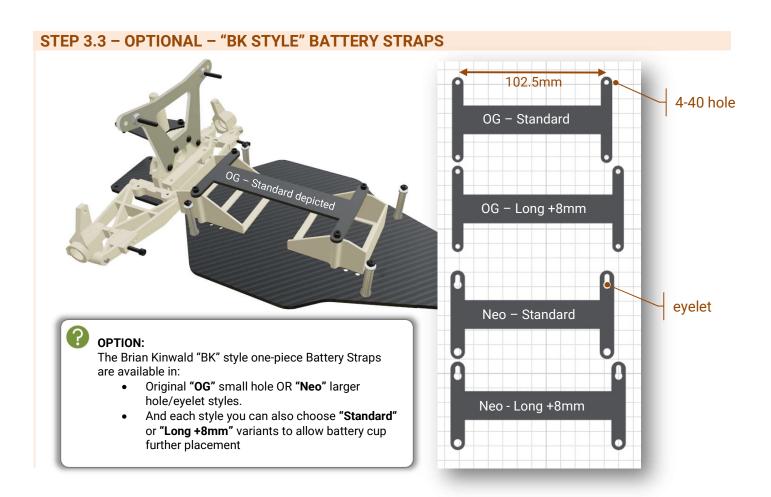
STEP 2 - COMPLETED





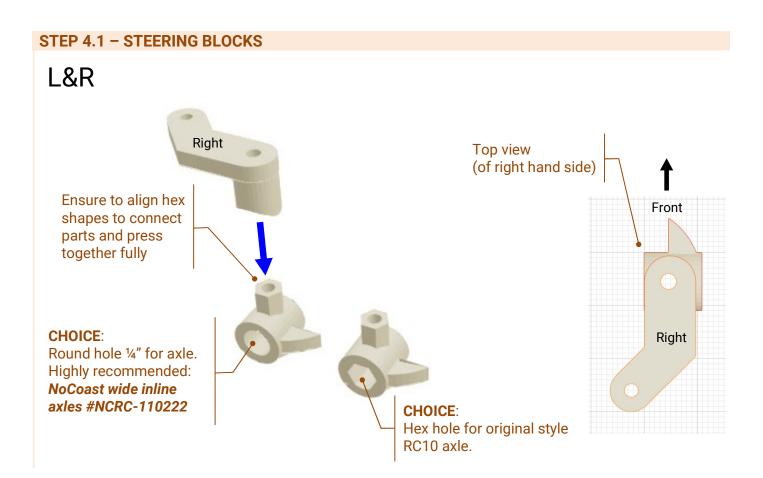
STEP 3.2 - OPTIONAL - STAND-OFFS



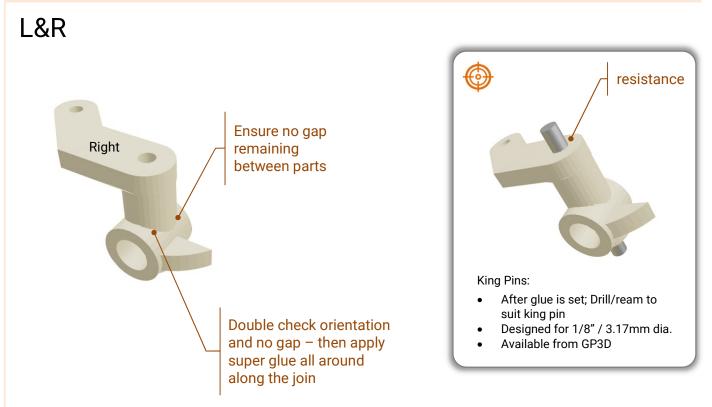


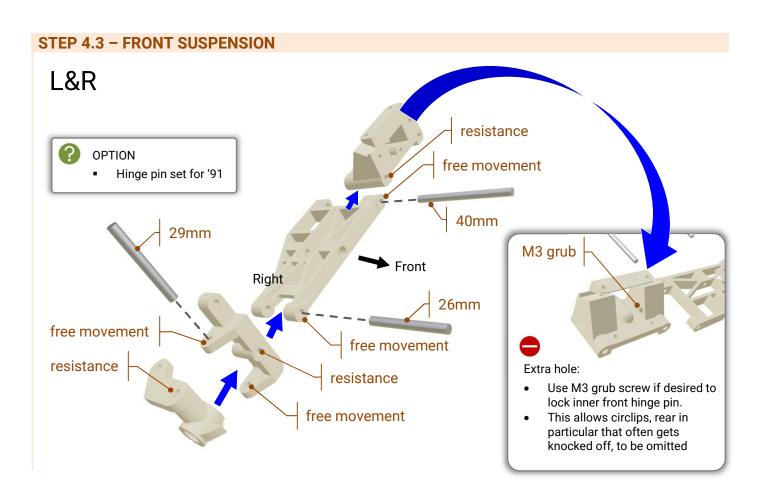
STEP 3 - COMPLETED

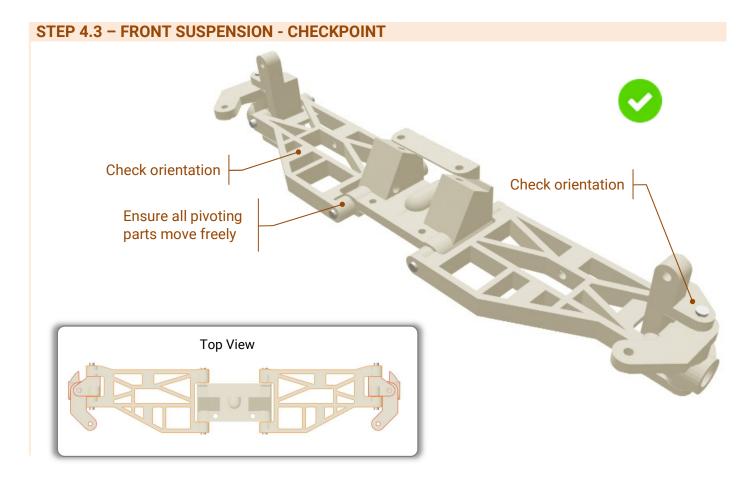




STEP 4.2 – STEERING BLOCKS

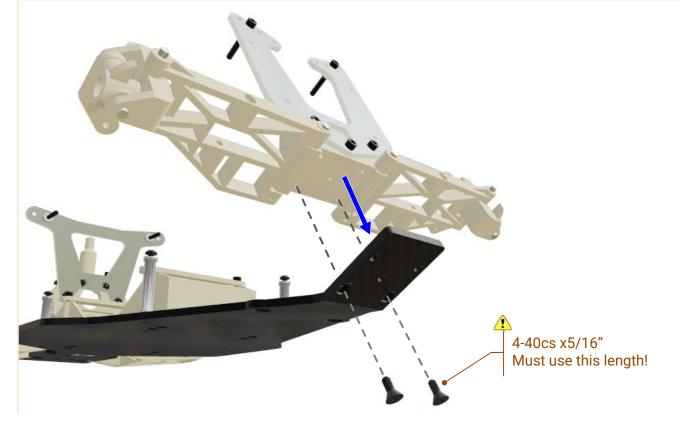


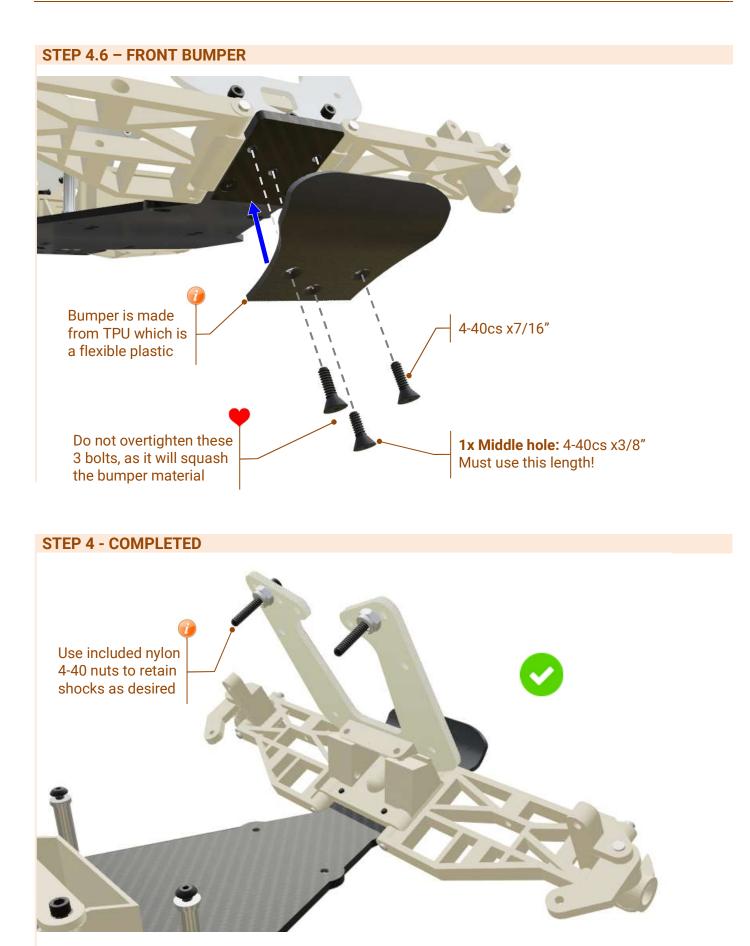


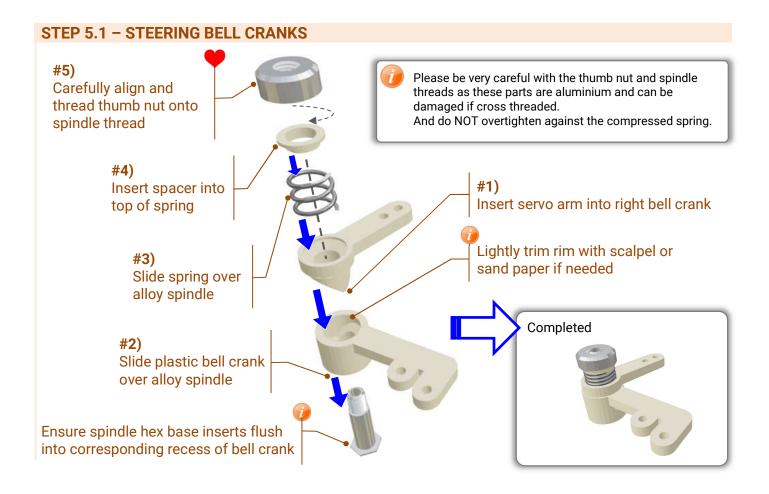


STEP 4.4 – FRONT SHOCK TOWER 4-40 nylock nut Use Ball studs with long ~7.5mm thread length here Use Ball studs with shortest ~5mm thread length here Comparison Compa

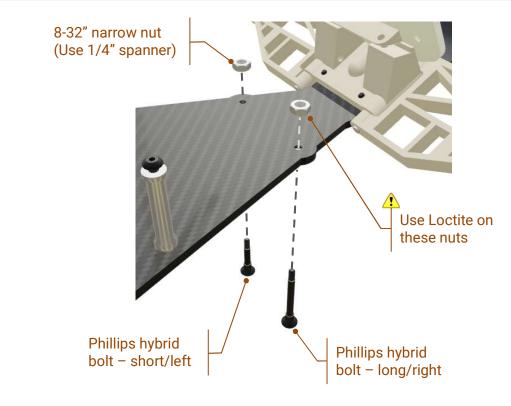
STEP 4.5 – ATTACH FRONT SUSPENSION ASSEMBLY



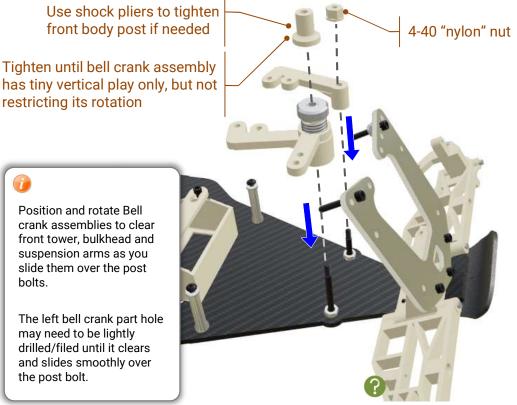




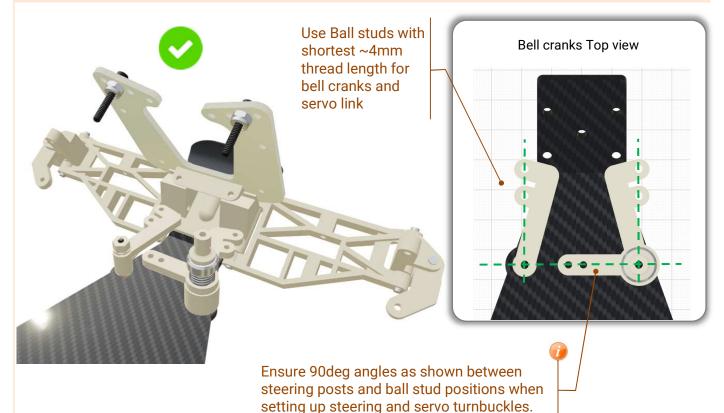
STEP 5.2 – STEERING BELL CRANK - POSTS



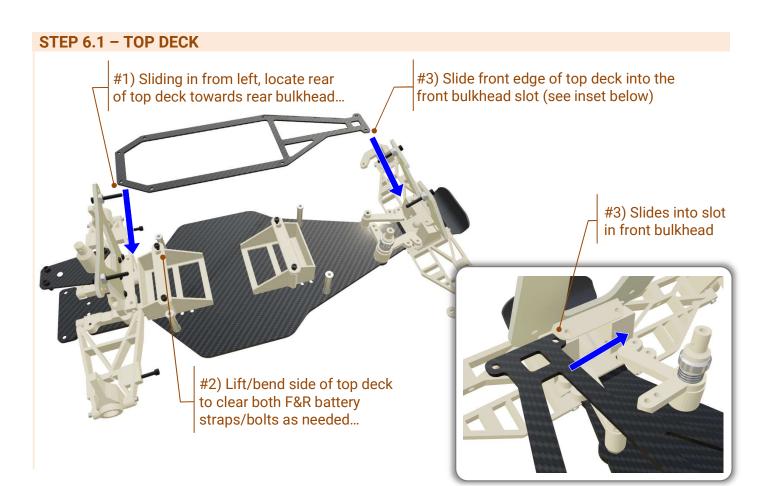




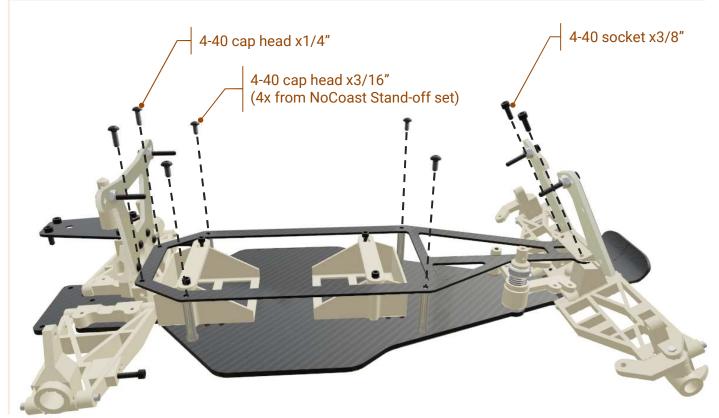
STEP 5 - COMPLETED







STEP 6.2 – TOP DECK





RC10 '91 DETROIT – OPTION PARTS

Here are some suggested option parts available from us here at GP3D and some from our amazing friends at; Gazza Motorsport, NoCoast, FanRC, JC Racing Products, Boki, Penguin and Looney Fumes **NoCoast Wing Mounts** Boki Gear Cover GP3D '91 Boki or Penguin (and Wing buttons) Hardware kit Viper body FanRC **Ball Studs** Gazza/GP3D Yok style Shock Spring Motor Plate GP3D '91 "BK" style tensioner clips FanRC 1-piece battery straps Ball Cups GP3D Gearbox Casings Gazza/GP3D Motor Guard GP3D Anti-squat blocks 1,2, 3 deg Gazza/GP3D **Retro Turnbuckles** JCRP UJ's 3/16" NoCoast Stand-offs NoCoast Inline Wide Axles GP3D/FanRC Hinge Pins **JCRP Wheels** NoCoast Yok TH-1 style wheel adapters

Version 1.0

