

# GLF-1

# Assembly Guide

[www.gl-racing.com](http://www.gl-racing.com)

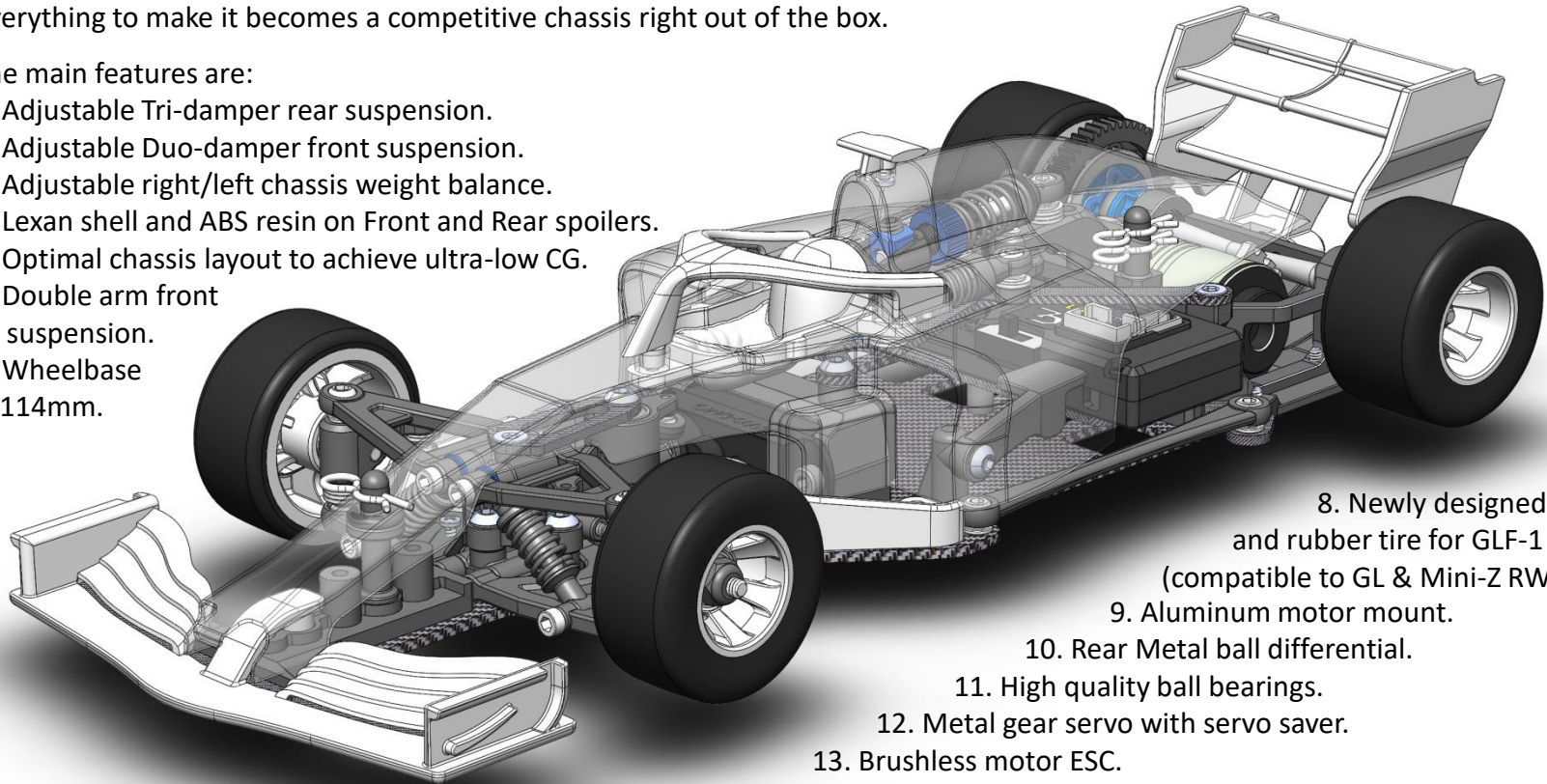
***Thanks for your purchase of GL product and support to our Team. We hope that you will enjoy this GLF-1.***

Welcome to the next evolution of mini scale racing. GL Racing has launched the new F1 chassis named GLF-1. It has a couple of innovative features which have never been applied to mini RC of this scale.

GLF-1 is a high-ended chassis designed for experienced racers. We recommended it for players aged 14+. We have included everything to make it becomes a competitive chassis right out of the box.

The main features are:

1. Adjustable Tri-damper rear suspension.
2. Adjustable Duo-damper front suspension.
3. Adjustable right/left chassis weight balance.
4. Lexan shell and ABS resin on Front and Rear spoilers.
5. Optimal chassis layout to achieve ultra-low CG.
6. Double arm front suspension.
7. Wheelbase 114mm.



8. Newly designed rims and rubber tire for GLF-1 (compatible to GL & Mini-Z RWD rims).
9. Aluminum motor mount.
10. Rear Metal ball differential.
11. High quality ball bearings.
12. Metal gear servo with servo saver.
13. Brushless motor ESC.
14. GL Micro receiver (GX-031) is recommended (to be sold separately).
15. Li-Po batteries powered (batteries to be sold separately).

# A Bag

## A Bag - 1



A-1 x2



A-2 x2



A-3

Options: GLF-OP-005 Steering Kunkles 1°  
GLF-OP-006 Steering Kunkles 2°



A-4



A-5 x2

Options: GLF-OP-004 Front Screw  
Adjustable Shock



A-6 x2

## A Bag - 2



A-7



A-8



A-9



A-10

## A Bag - 3



A-11



A-12 x2



A-13



A-14



A-15 x2



A-16



A-17



A-18



A-19



A-20

## A Bag - 4



A-21  
(Fit to B-35 3.5 Ball nut)



A-22



A-23



A-24



A-25 x2

Options: GLF-OP-003 Side Screw  
Adjustable Shock



A-26 x2

### A Bag - 5



A-27 x2  
(Fit to B-32 2.5 ball screw)

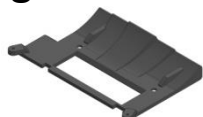


A-28 x2  
(Fit to B-34 3.0 ball screw)



A-29  
(Fit to B-32 2.5 ball screw)

### A Bag - 6



A-30



A-31



A-32



A-33 x2



A-34 x2



A-35

### A Bag - 7



A-36



A-37



A-38



A-39  
(M1.6 x 6 PM)



A-40  
(2.5 x 6 x 0.5)

### A Bag - 8



A-42 (9T)



A-43 (10T)



A-44 (11T)



A-45 (12T)

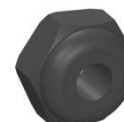


A-46 (13T)



A-47 (14T)

### A Bag - 9



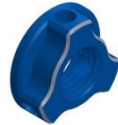
A-41 x5

# B Bag

## B Bag - 1



B-1



B-2



B-3



B-4



B-5 x2



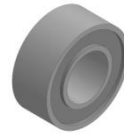
B-6 x11



B-7 (53T)



B-8



B-9

3 x 6 x 2.5  
Ball Bearing



B-10 x2



B-11

## B Bag - 2



B-13 x2  
(2 x 4 x 0.5) GL Blue



B-14



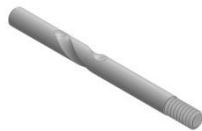
B-15



B-16



B-17 x2  
(2 x 4 x 0.3)

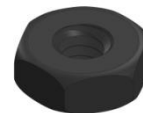


B-18

Options: GLF-OP-007 Central Long Piston  
Rod (Compatible with GLR)




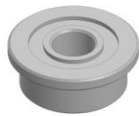
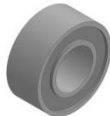













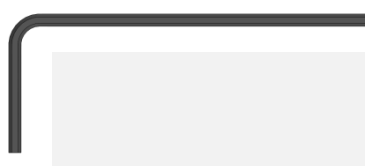
B-19 x2  
(Ø1.5 x 16)






B-20  
(M2 Lock Nut)



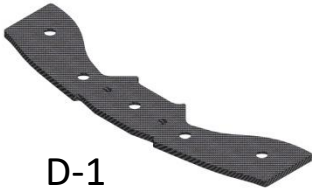
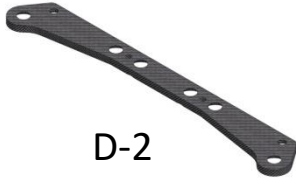
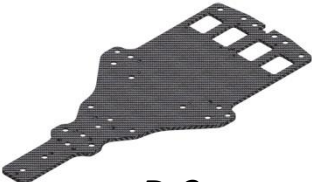



B-21 x2

<div>B Bag - 3</div> <div></div> <div>B-22 x2</div>	<div>B Bag - 4</div> <div></div> <div>B-23</div> <div>2 x 5 x 2.3</div> <div>Flanged Bearing</div> <div></div> <div>B-24 x9</div> <div>3 x 6 x 2.5</div> <div>Ball Bearing</div>		<div>B Bag - 5</div> <div></div> <div>B-25 x2</div> <div>(0.6xOD4.8x7.5H)</div> <div>Front Damper</div> <div>(Options: GLF-OP-002)</div> <div></div> <div>B-26 x2</div> <div>(0.5xOD4.7x7.5H)</div> <div>Side Damper</div> <div>(Options: GLF-OP-001)</div> <div></div> <div>B-27</div> <div>(0.6xOD6.0x11H)</div> <div>Center Damper</div> <div>(Options: GLR-003-CL)</div>			
<div>B Bag - 6</div> <div></div> <div>B-28 x3</div> <div></div> <div>B-29 x6</div>		<div>B Bag - 7</div> <div></div> <div>B-30 x2</div>		<div>B Bag - 8</div> <div></div> <div>B-31 x2</div> <div>(M2.0 x 14.5)</div>	<div>B Bag - 9</div> <div></div> <div>B-32 x4</div> <div>(2.5 Ball M1.4 x 2)</div>	
<div>B Bag - 10</div> <div></div> <div>B-33 x4</div> <div>(3.5 Ball M2.0 x 4)</div>		<div>B Bag - 11</div> <div></div> <div>B-34 x6</div> <div>(3.0 Ball M2.0 x 2.5)</div>		<div>B Bag - 12</div> <div></div> <div>B-35 x8</div> <div>(3.5 Ball Nut M2.0)</div>		<div>B Bag - 13</div> <div></div> <div>B-36 x23</div> <div>(2.3 x 4.4 x 0.5)</div>
<div>B Bag - 14</div> <div></div> <div>1.5 Hex Key</div> <div></div> <div>1.3 Hex Key</div>						

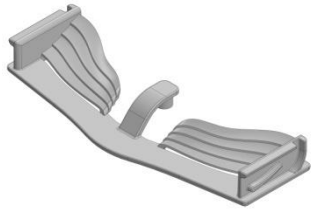
## C Bag

<p>C Bag - 1</p>  <p>C-1</p>	<p>C Bag - 2</p>  <p>C-2</p>	<p>C Bag - 3</p>  <p>C-3</p>
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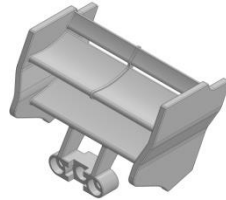
## D Bag

<p>D Bag - 1</p>  <p>D-1</p>	<p>D Bag - 2</p>  <p>D-2</p>
<p>D Bag - 3</p>  <p>D-3</p>  <p>D-4</p>  <p>D-5</p>  <p>D-6</p>	

## D Bag - 4



D-7



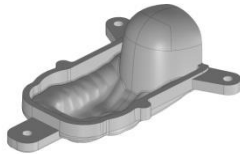
D-8



D-9



D-10



D-11



D-12



D-13

## D Bag - 5



D-14 x2

## D Bag - 6



D-15 x2


## E Bag


<p>M1.2x4 PB</p>  x9	<p>M1.2x2.5 PM</p>  x2	<p>M1.6x3.5 PM</p>  x2	<p>M2x3 KM</p>  x4	<p>M2x4 KB</p>  x28
<p>M2x4 KM</p>  x8	<p>M2x4 Cup Head</p>  x4	<p>M2x4 TB</p>  x12	<p>M2x4 TM</p>  x2	<p>M2x5 KM</p>  x1
<p>M2x5 TM</p>  x4	<p>M2x6 KB</p>  x8	<p>M2x8 KM</p>  x1	<p>M3x3 Grub</p>  x2	




## A 3D CAD model of a Formula 1 car chassis, shown from a perspective view. The model is light gray with some darker gray sections representing the engine cover and rear wing. It is mounted on a dark gray rectangular base. The label "F-1" is positioned below the model.

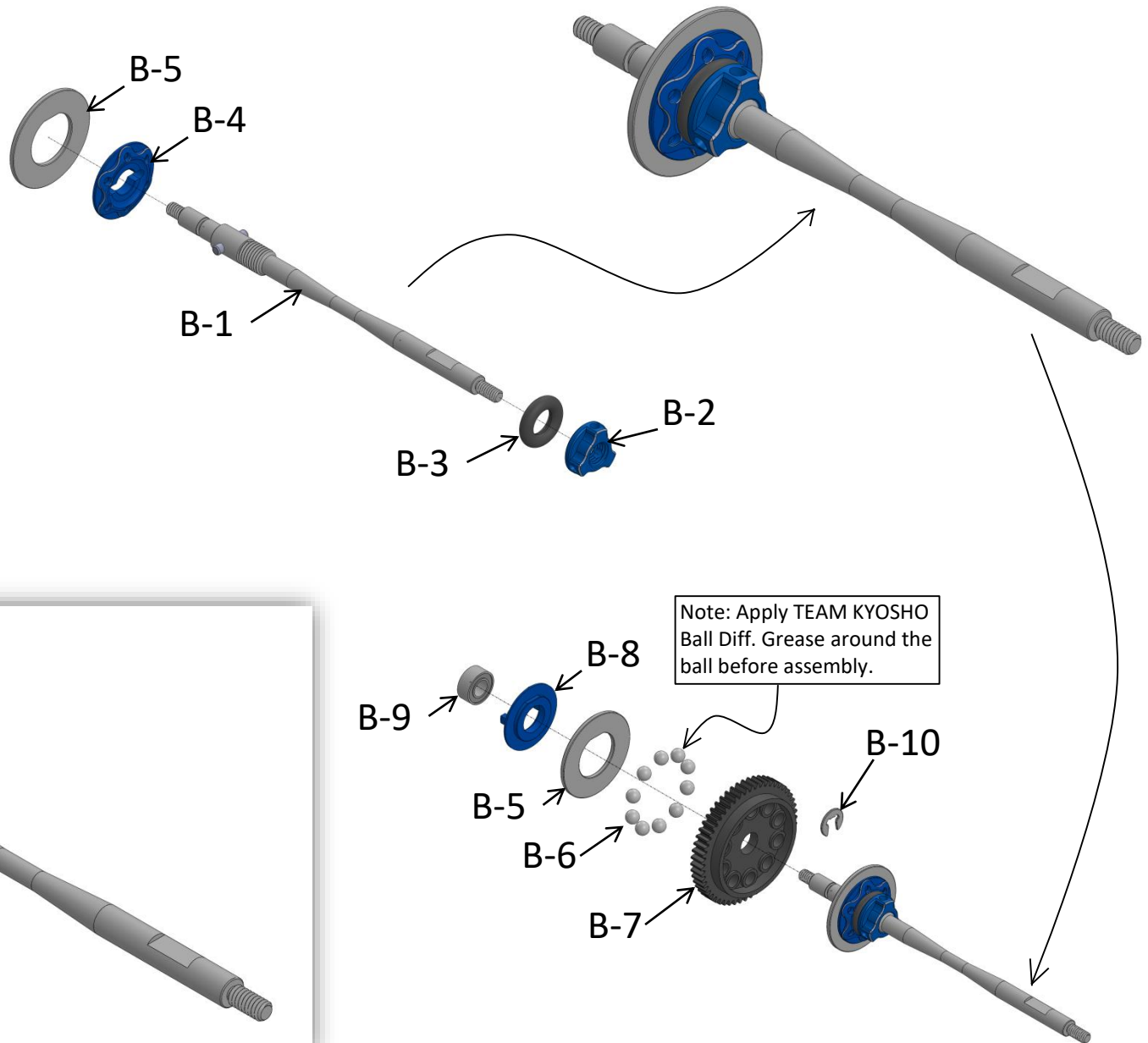
A 3D perspective rendering of a Formula 1 car chassis, labeled 'F-1'. The model is shown from a side-rear perspective, highlighting the aerodynamic components such as the front wing, sidepods, and rear wing. The chassis is mounted on a flat, rectangular base. The rendering is in a light gray, wireframe-like style, emphasizing the complex geometry of the car's bodywork.

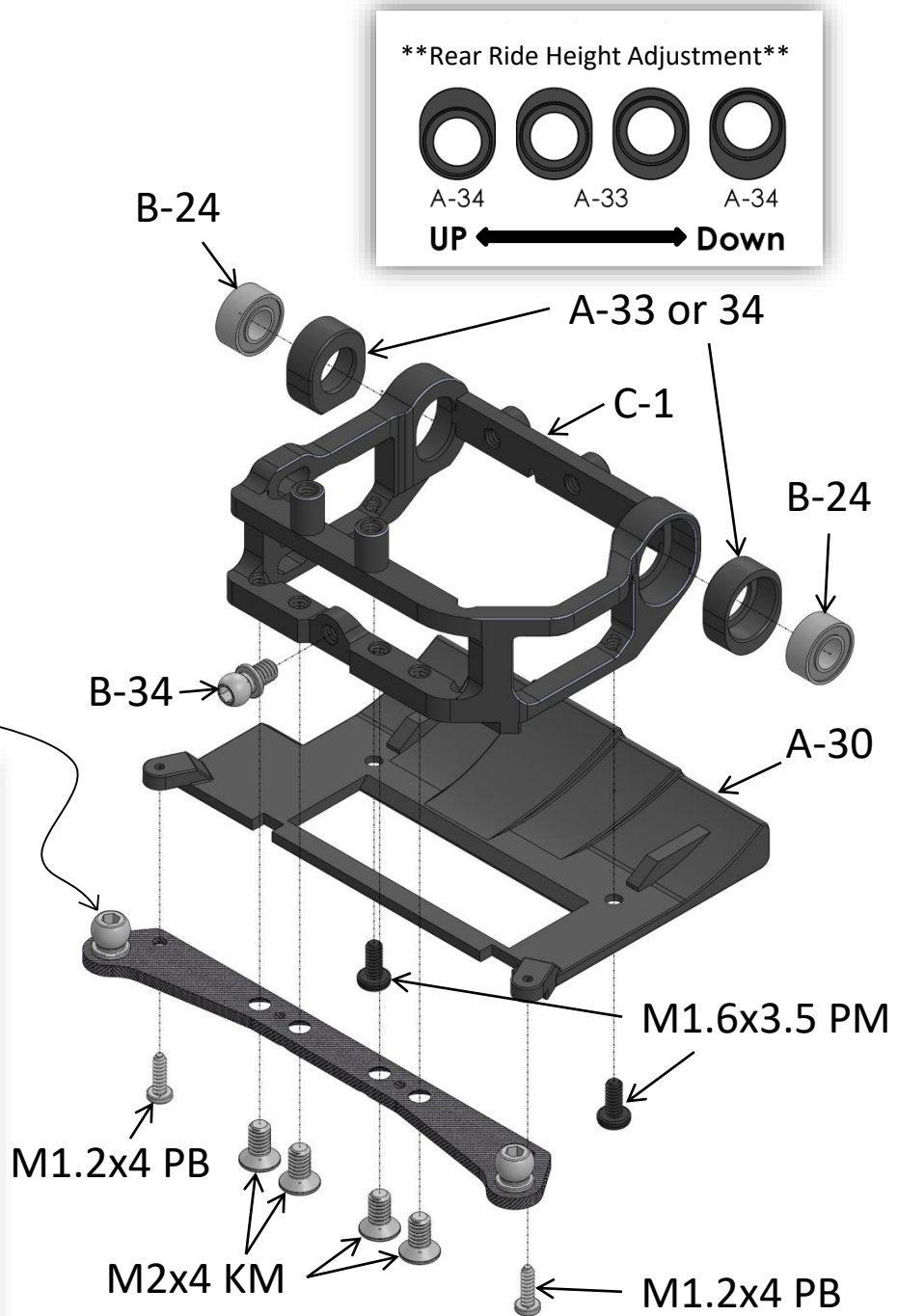
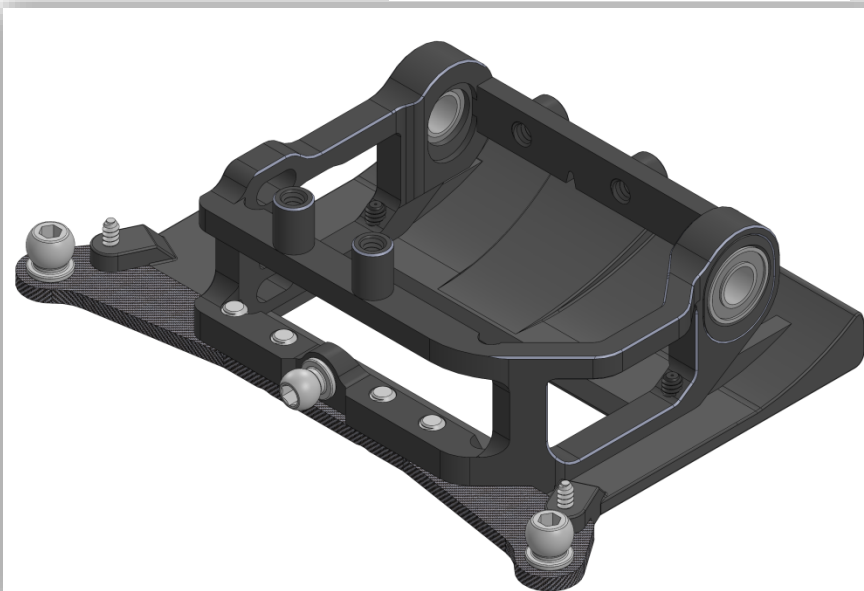
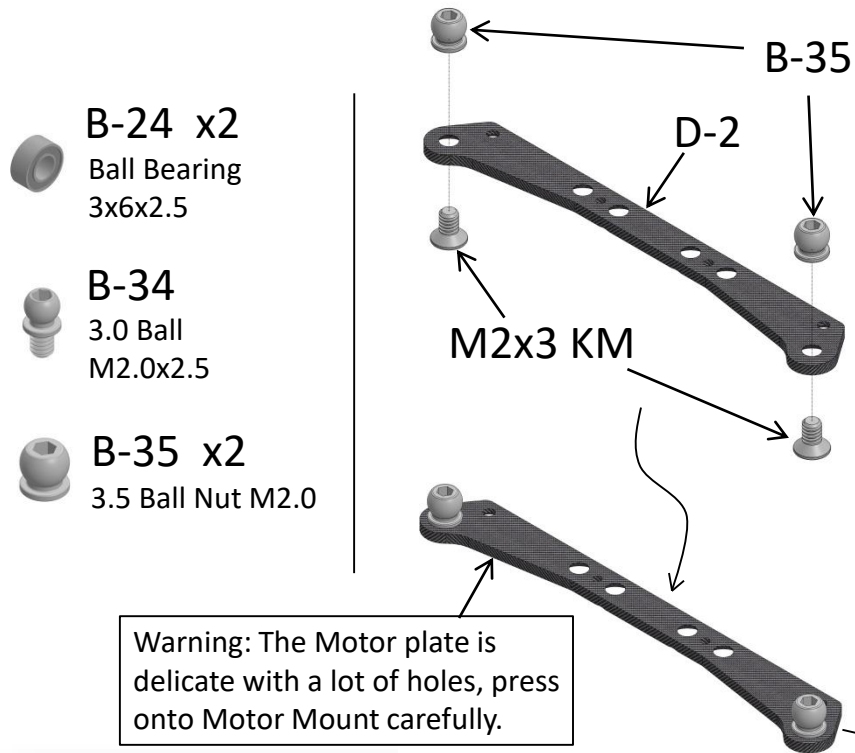
 **B-3**  
Rubber ring

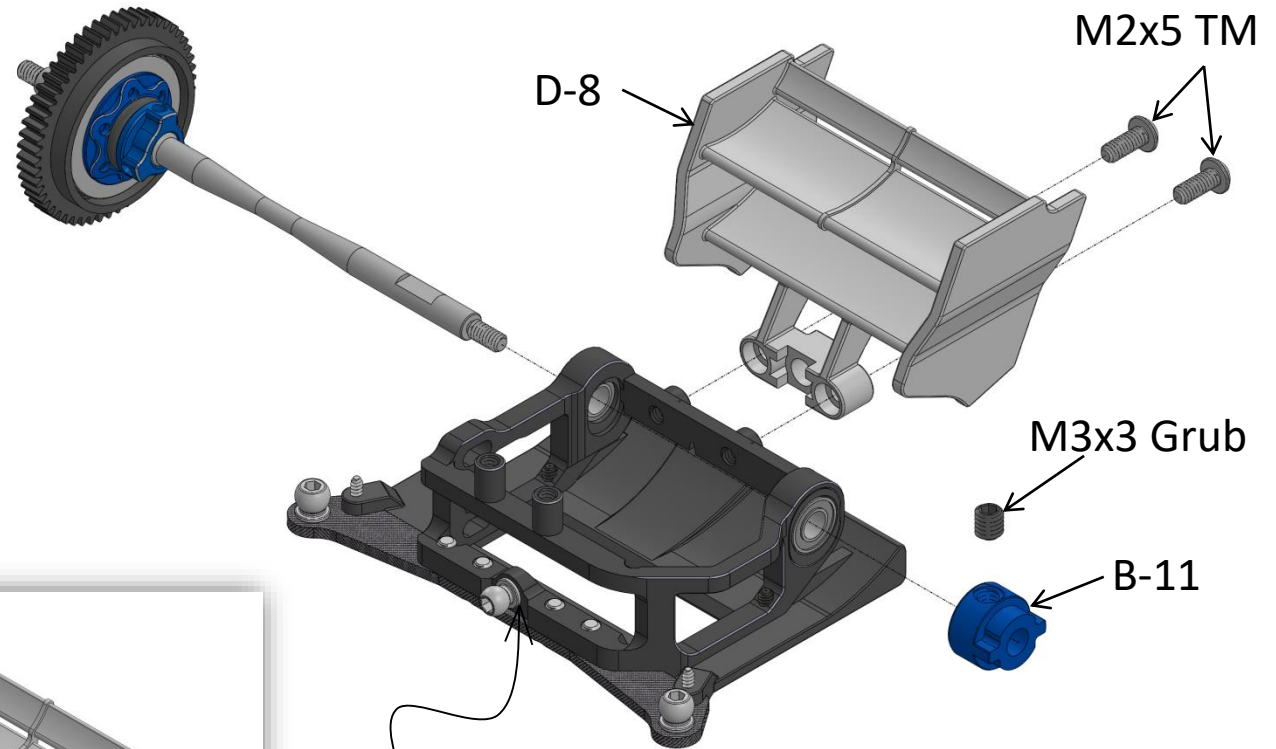
 **B-6 x10**  
2.381 Ball

 **B-7**  
Spur 53T

 **B-9**  
Ball Bearing 3x6x2.5

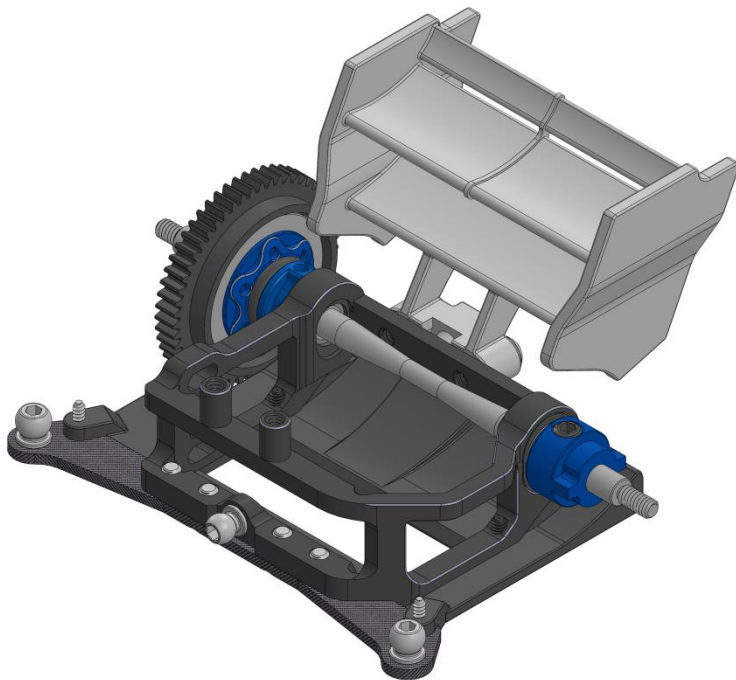






Tips: Put 2x4 spacer in between of B-34 and C-1. Check the link below for more info:

[http://gl-racing.com/GLR/v1/guide/#rear\\_subframe](http://gl-racing.com/GLR/v1/guide/#rear_subframe)



**B-24 x2**  
Ball Bearing  
3x6x2.5

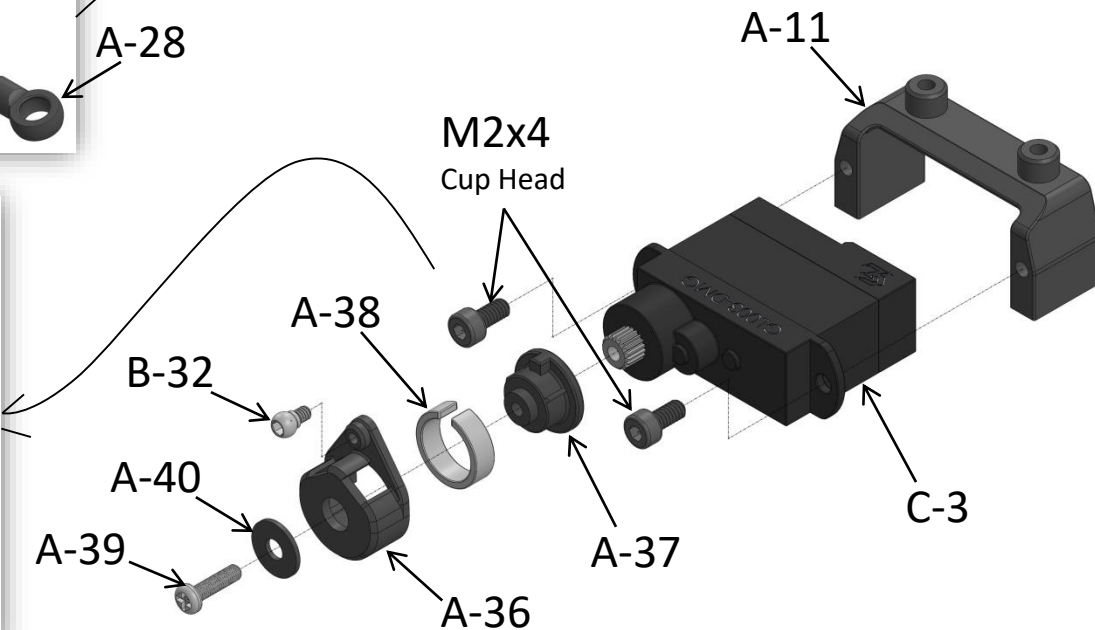
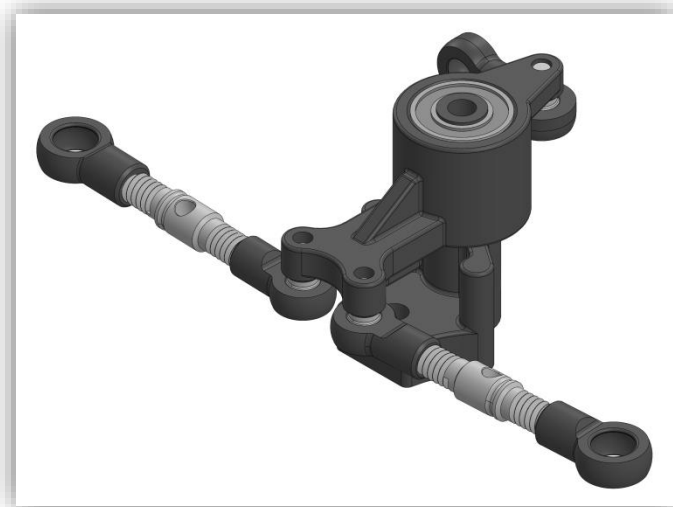
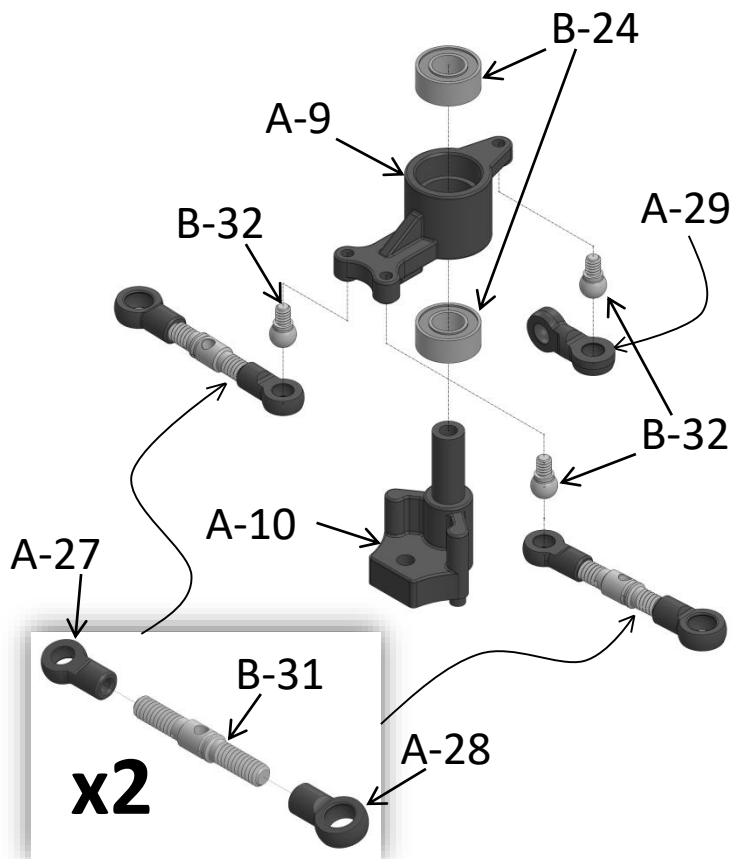
**B-31 x2**  
M2.0x14.5

**B-32 x4**  
2.5 Ball  
M1.4x2


**A-39**  
M1.6x6 PM


**A-40**  
2.5x6x0.5


23.6mm  
(Steering Rods)








 **B-17**  
2x4x0.3

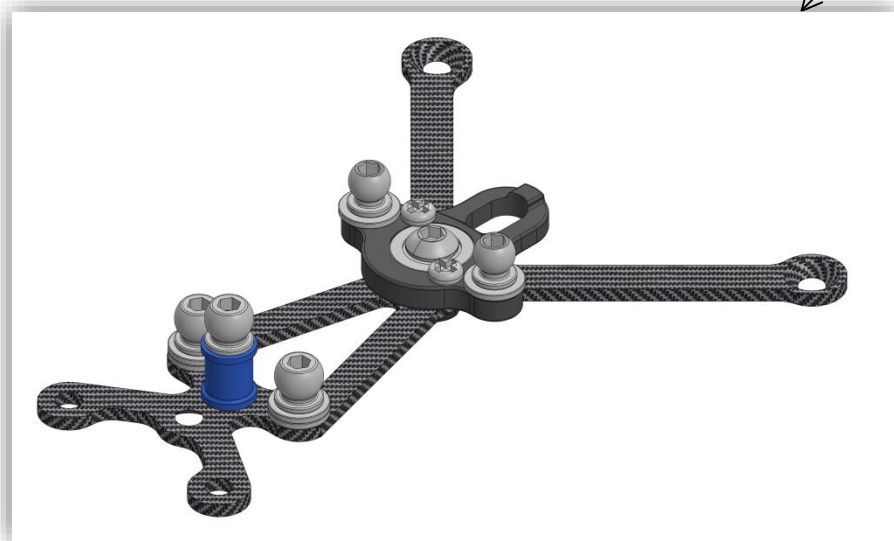
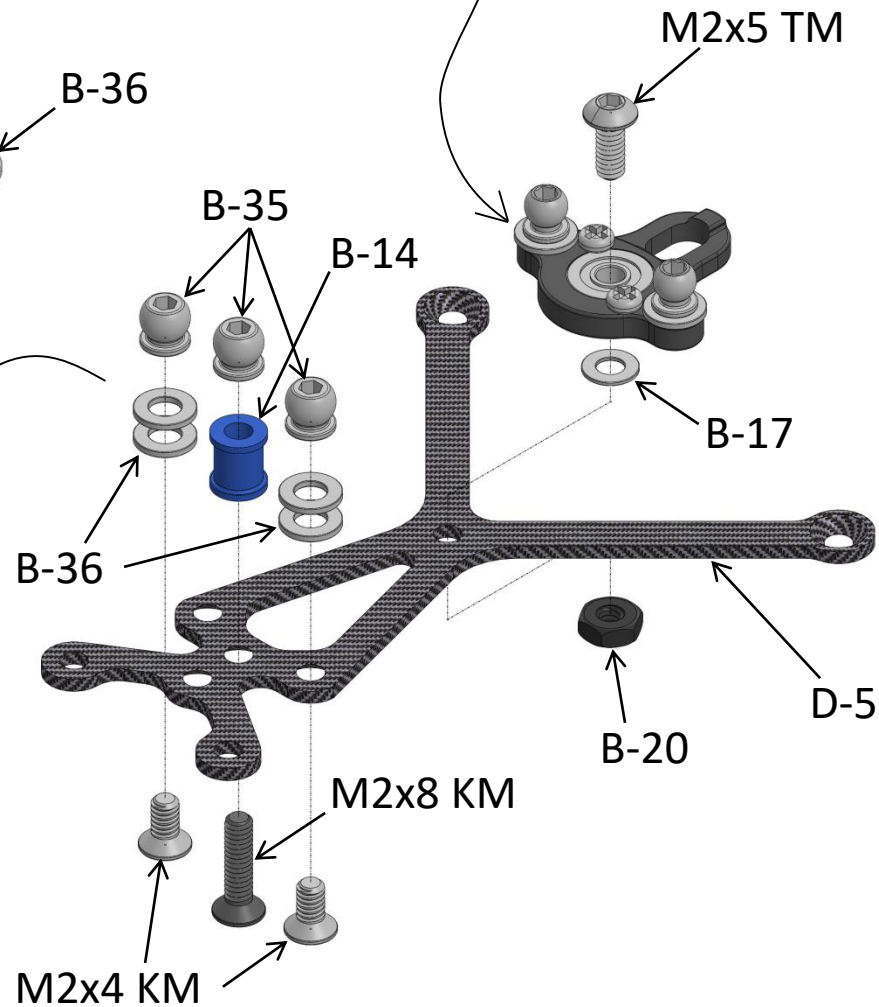
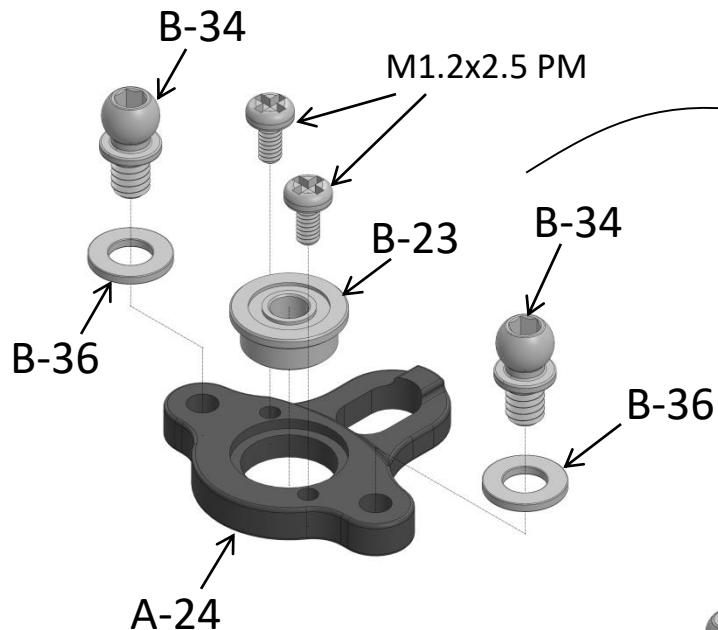
 **B-20**  
M2 Lock Nut

 **B-23**  
Flanged Bearing  
2x5x2.3

 **B-34** x2  
3.0 Ball  
M2.0x2.5

 **B-35** x3  
3.5 Ball Nut M2.0

 **B-36** x6  
2.3x4.4x0.5



B-19 x2  
(Ø1.5 x 16)

B-25 x2  
0.6xOD4.8x7.5H

Down Stop screw  
M1.2x4 PB

M2x4 TB

A-7

Down Stop screw  
M1.2x4 PB

A-1

A-8

A-1

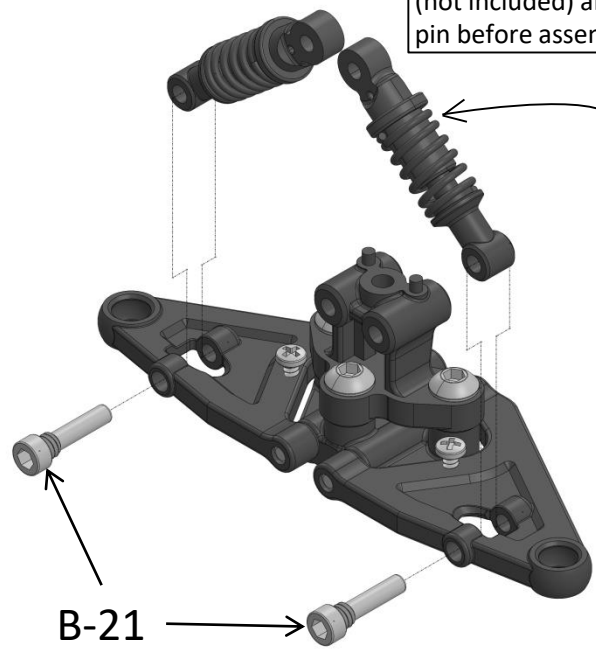
B-19

A-6

B-25

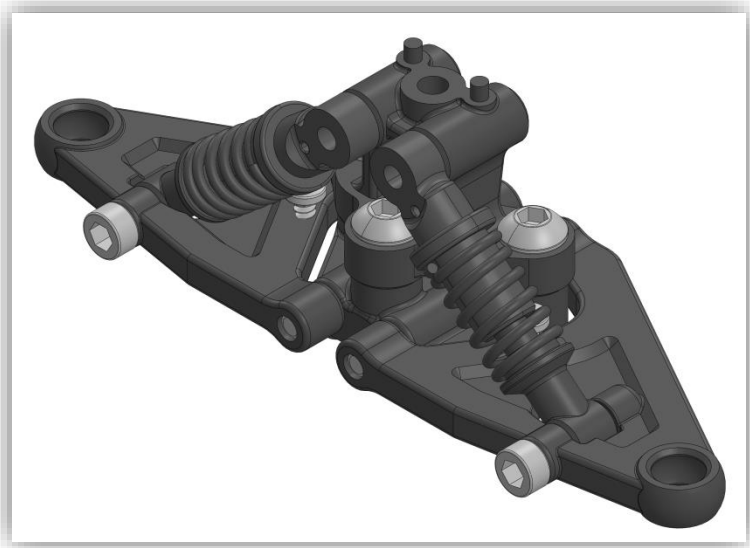
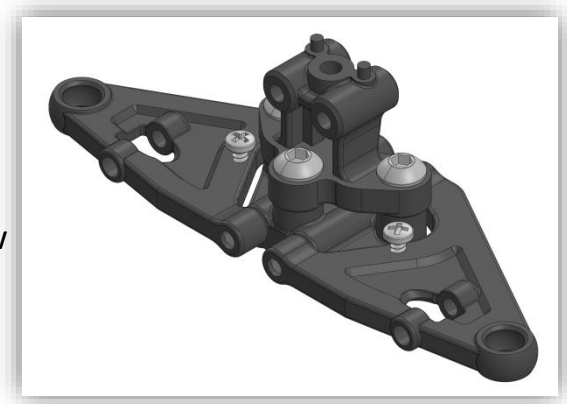
A-5

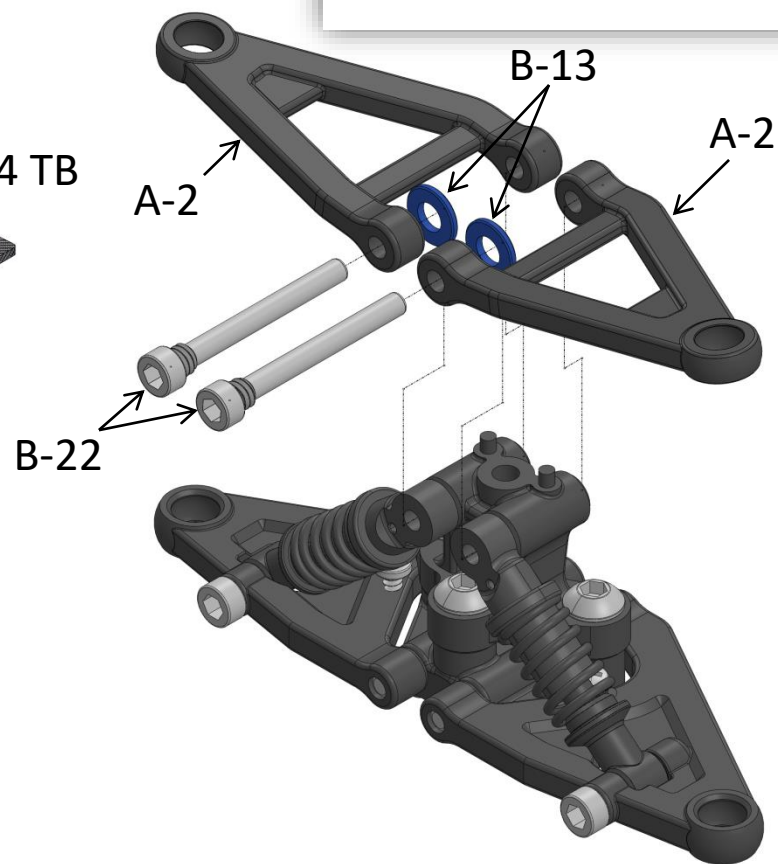
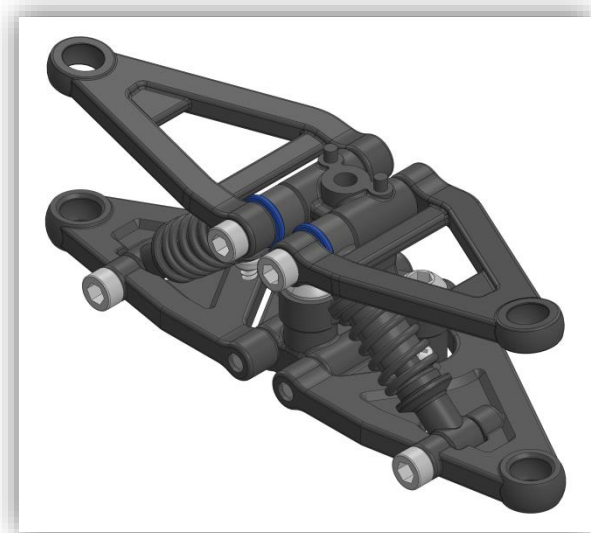
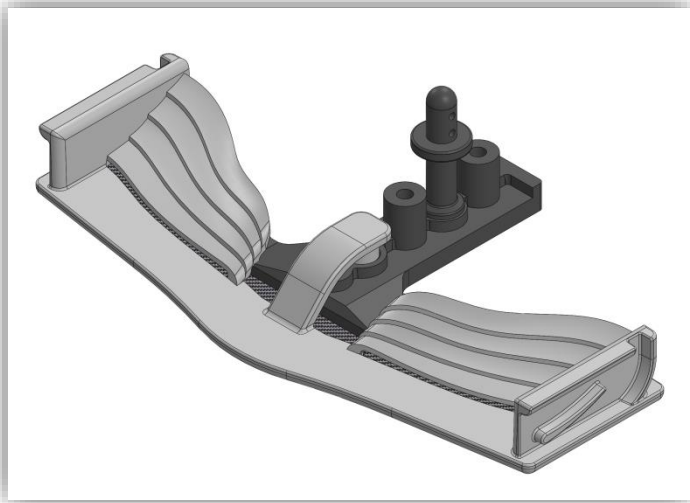
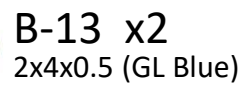
Note: Apply TEAM KYOSHO  
#30000 Diff. Gear Grease  
(not included) around the  
pin before assembly.



B-21

x2

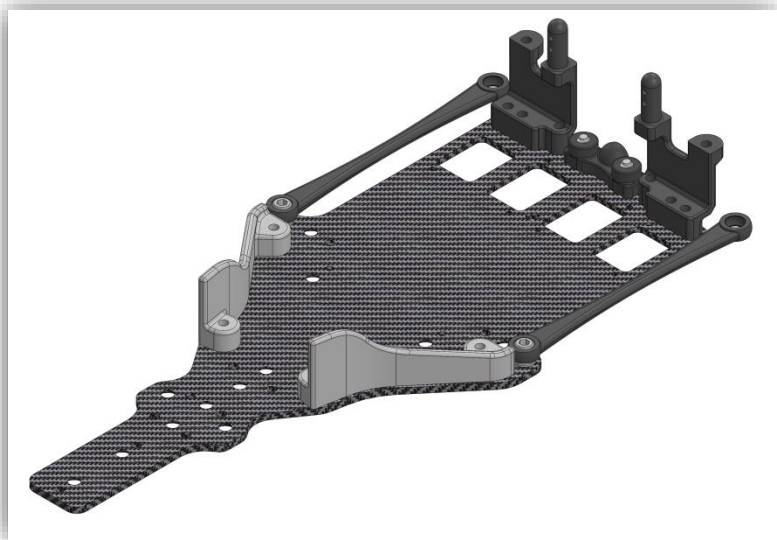
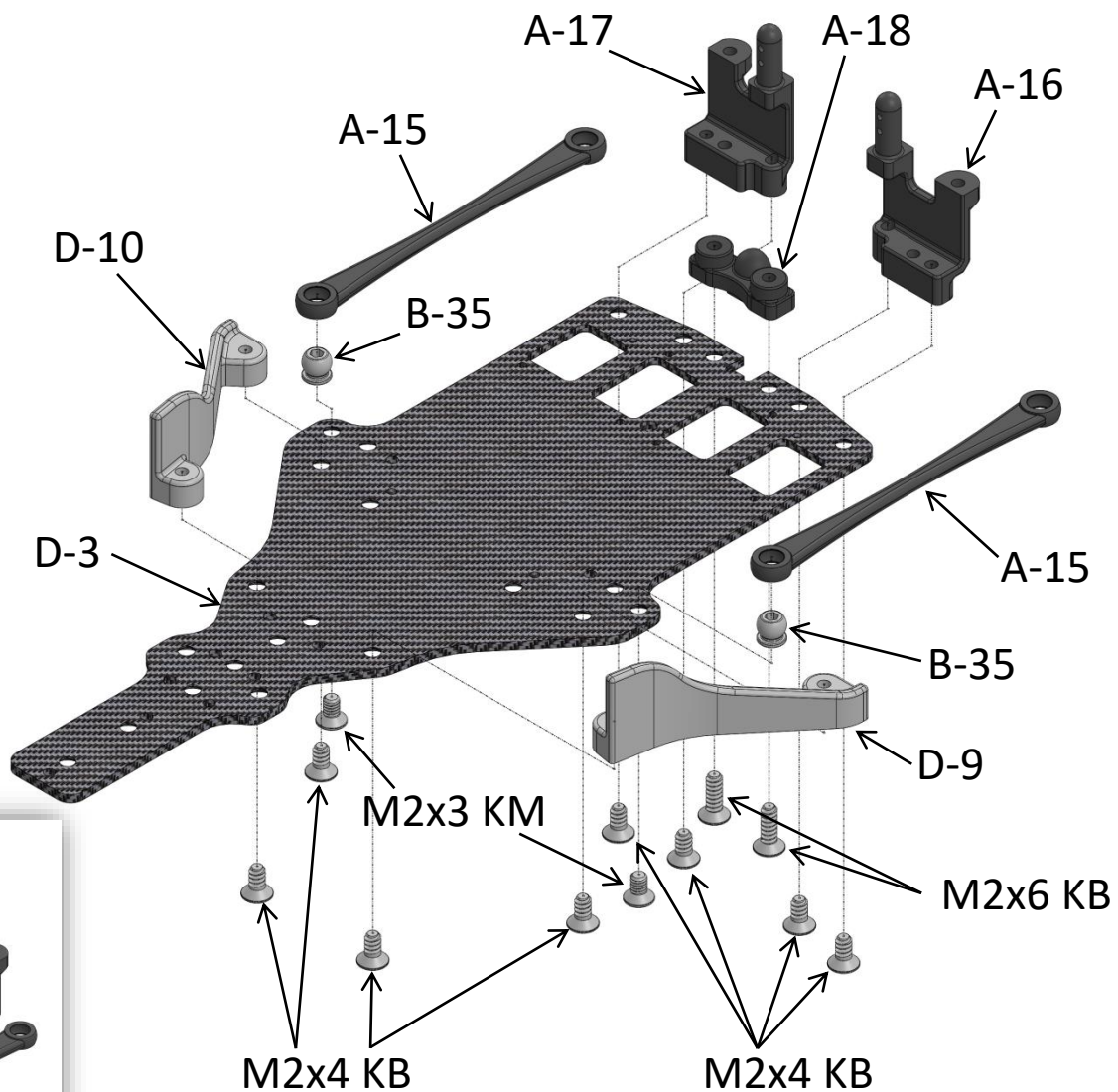


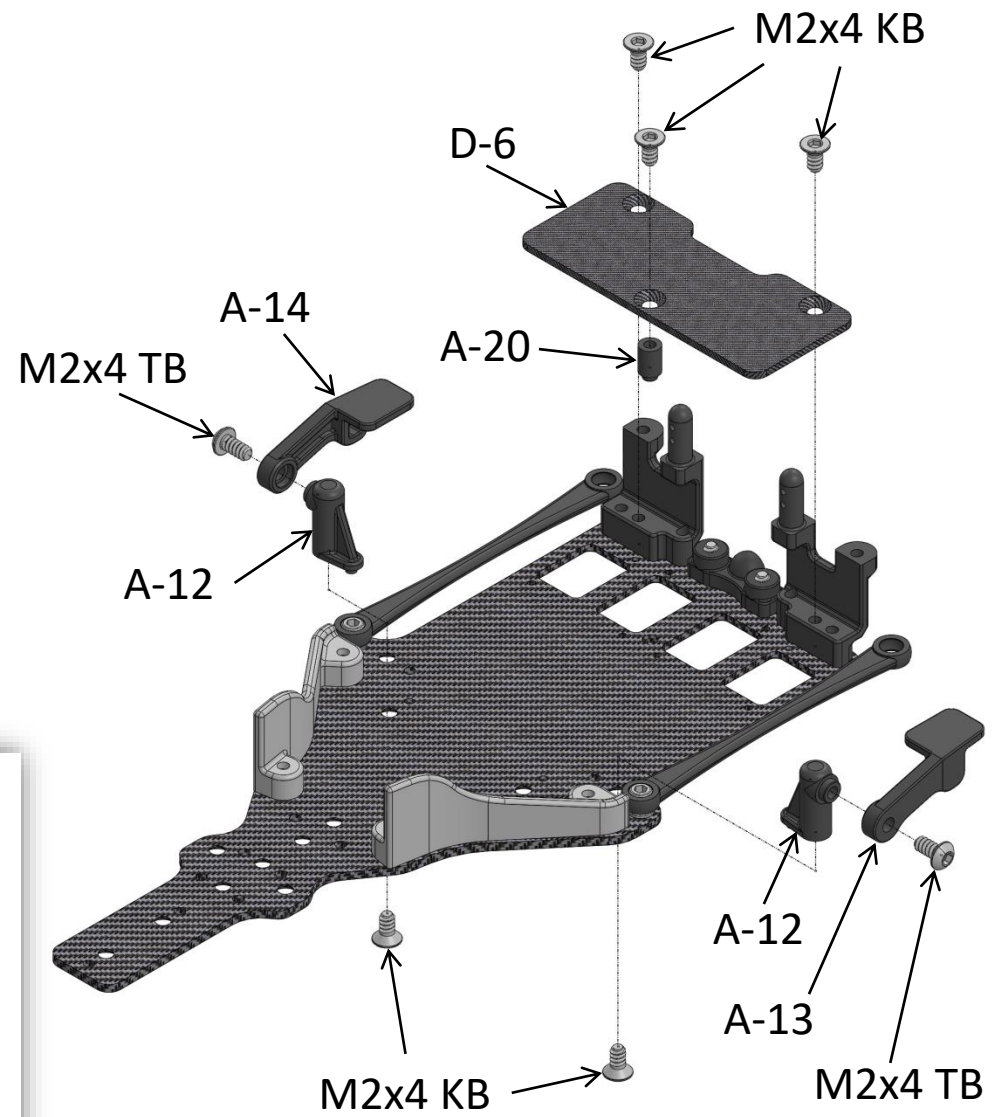
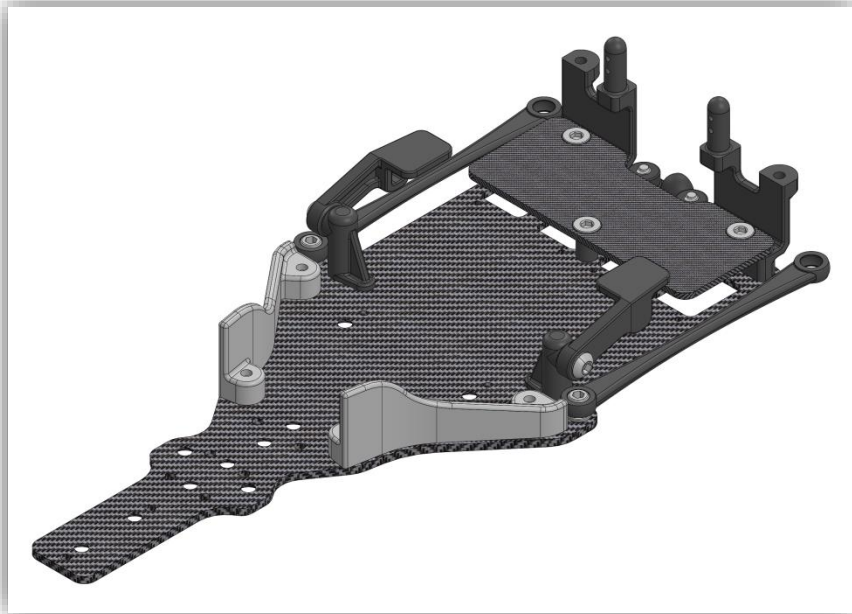


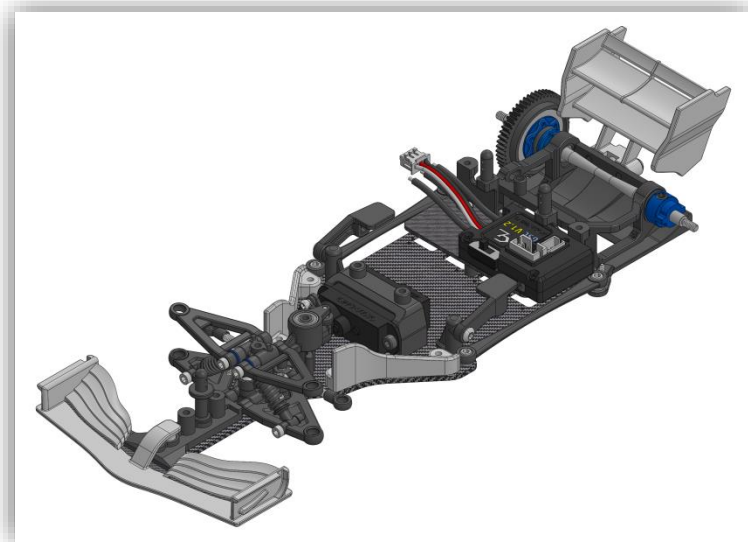
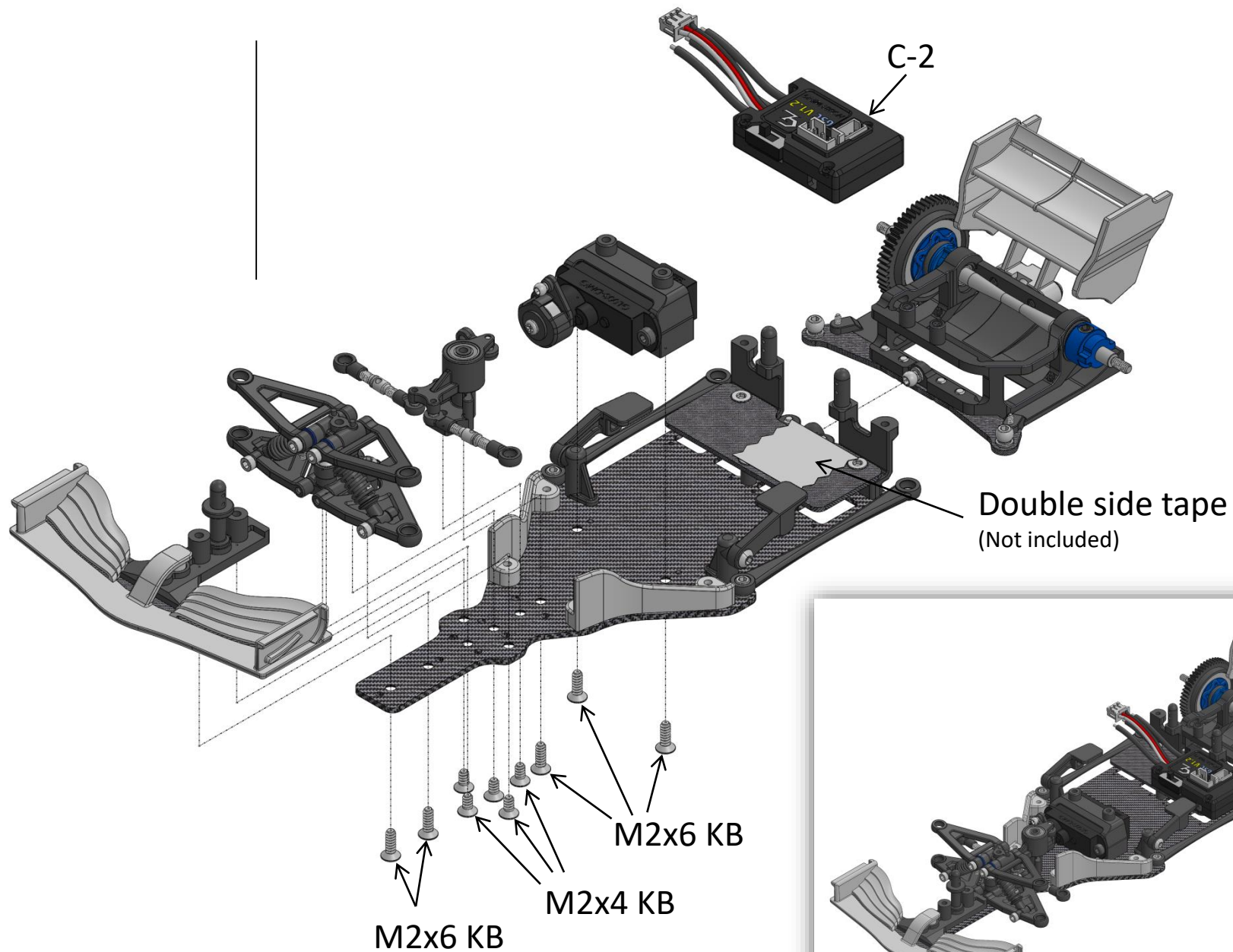




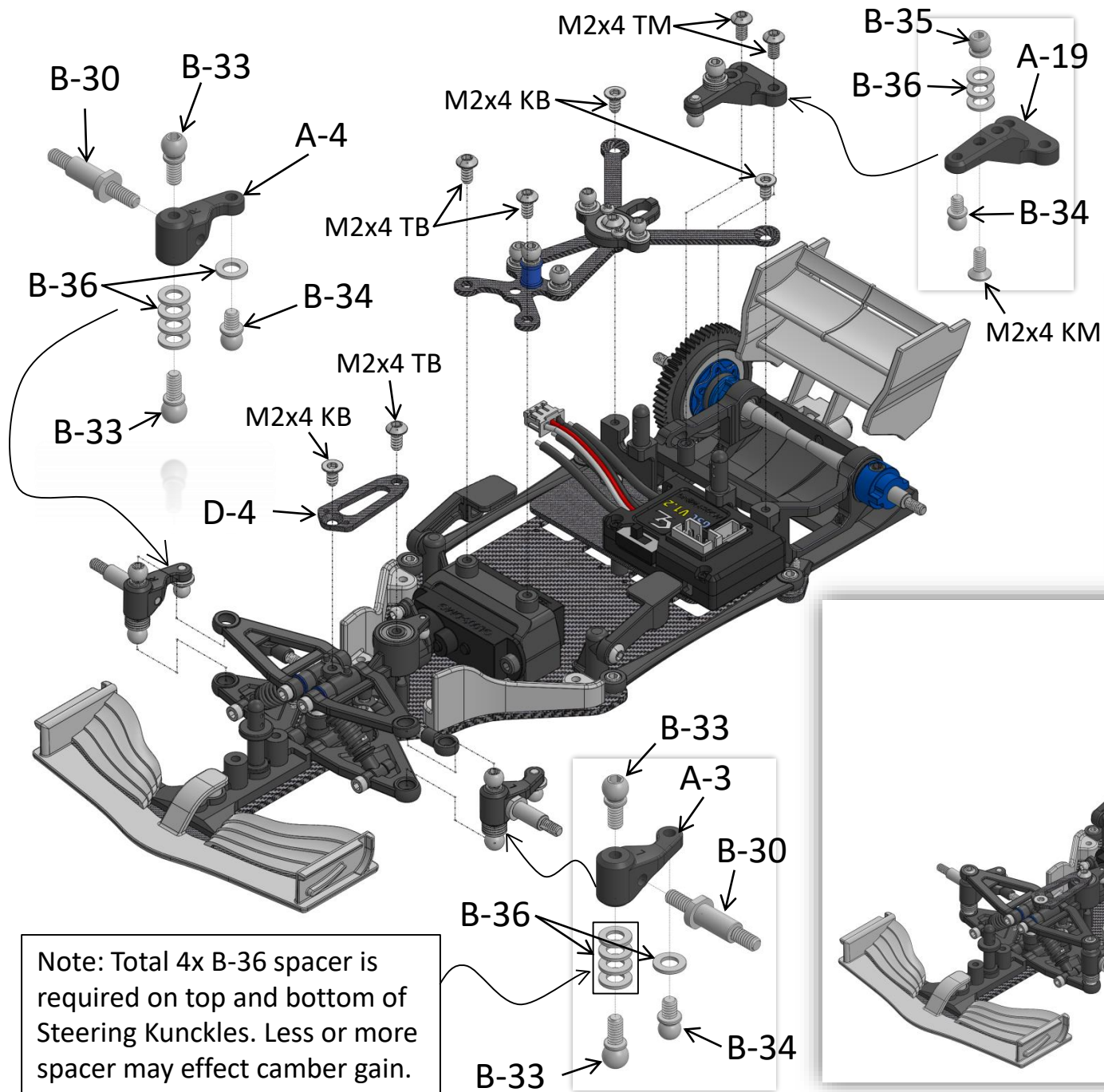
B-35 x2  
3.5 Ball Nut M2.0











- B-33 x4  
3.5 Ball  
M2.0 x 4
- B-34 x3  
3.0 Ball  
M2.0 x 2.5
- B-35  
3.5 Ball Nut  
M2.0
- B-36 x13  
2.3 x 4.4 x 0.5

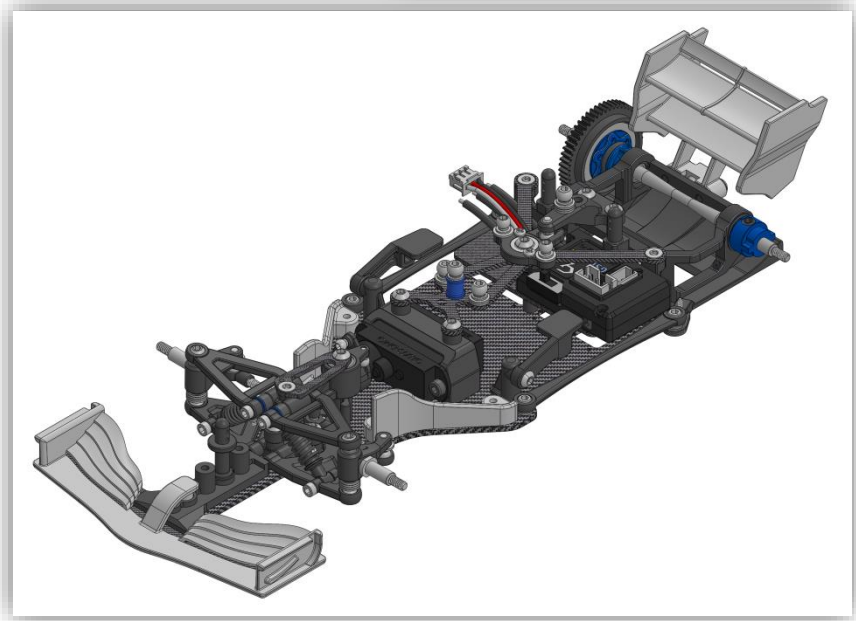
**\*\*Front Ride Height Adjustment\*\***

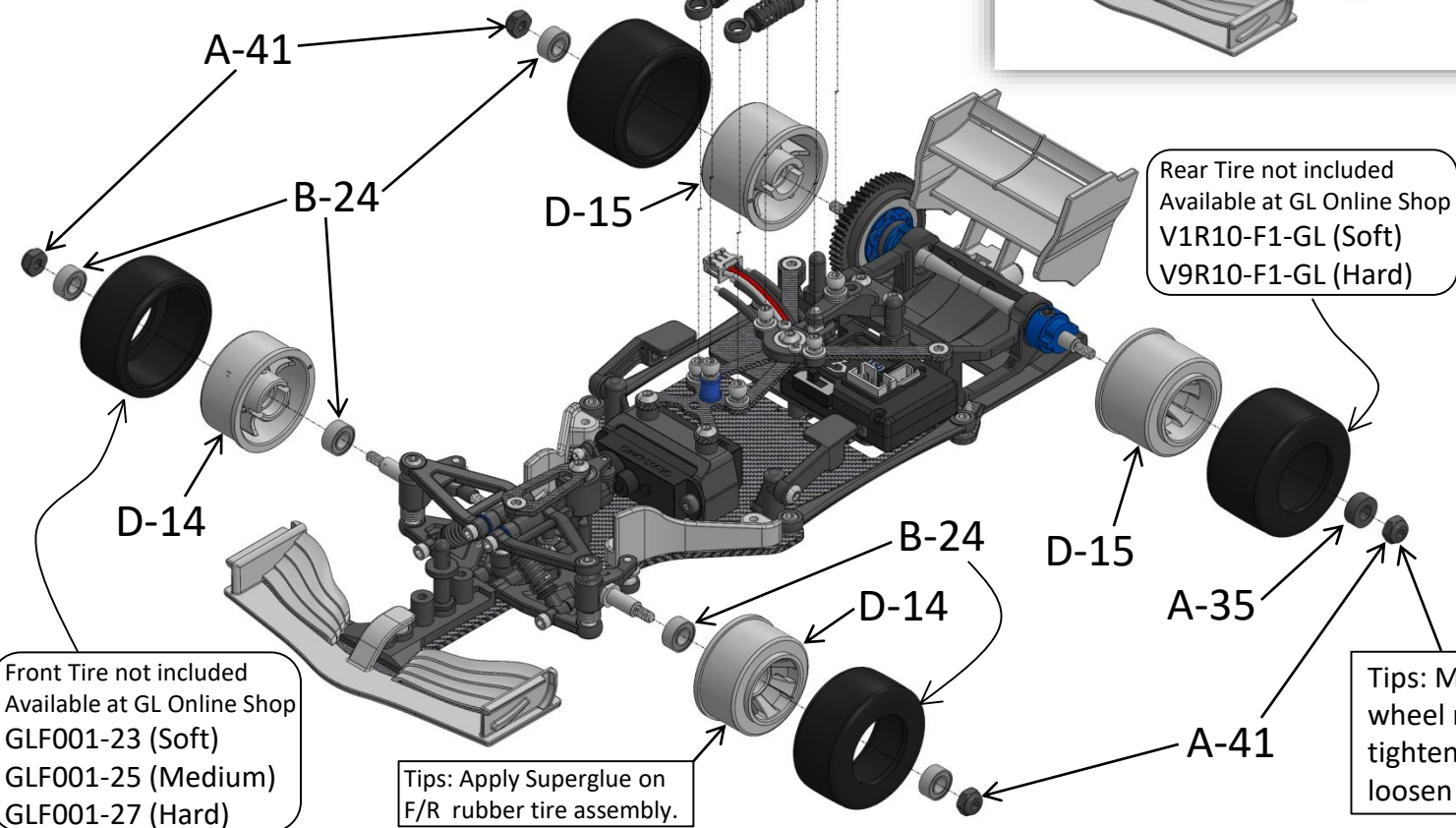
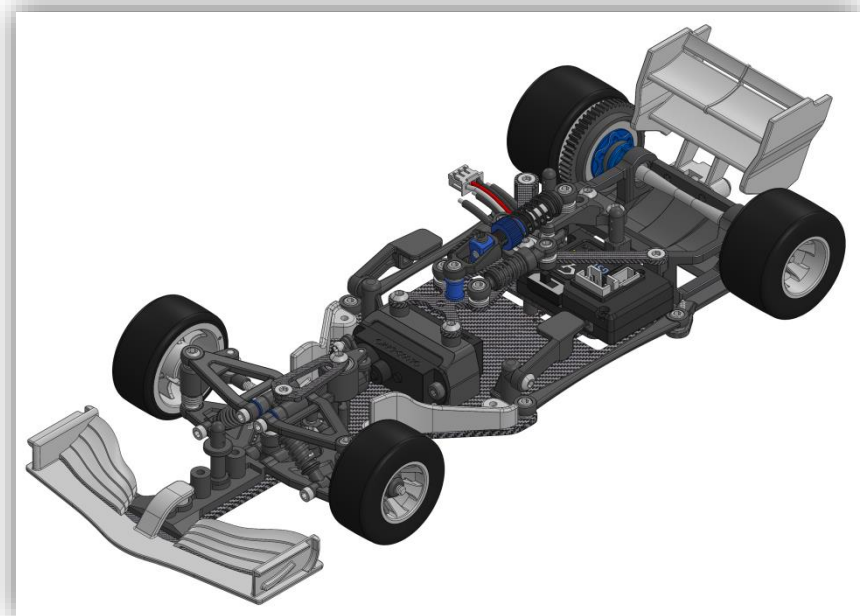
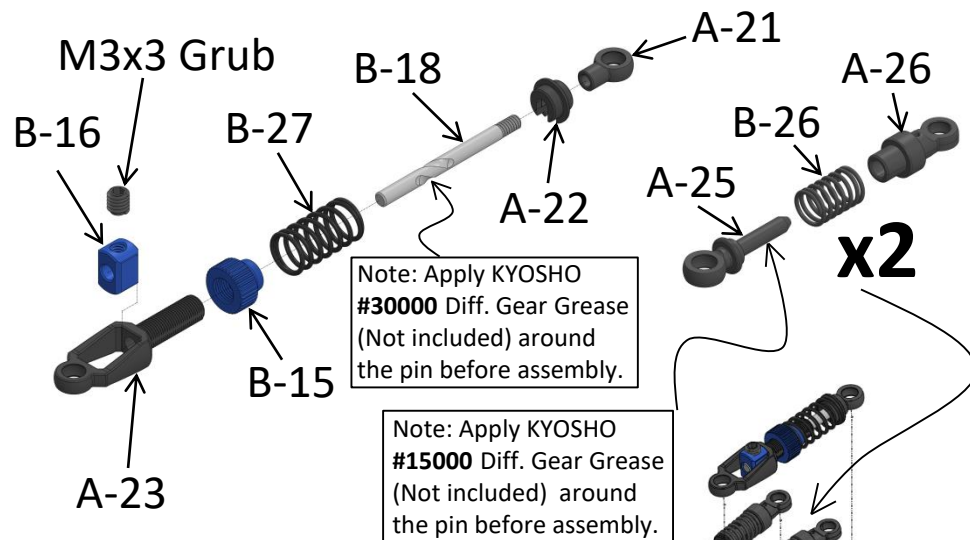
Down ← → UP




B-36 x4    x3    x2    x1    0

Switching the spacer B-36 to top for the adjustment.

Note: Total 4x B-36 spacer is required on top and bottom of Steering Kunkles. Less or more spacer may effect camber gain.





-  **B-24 x5**  
3 x 6 x 2.5
-  **B-26 x2**  
0.5xOD4.7x7.5H
-  **B-27**  
0.6xOD6.0x11H

Tips: Make sure that the wheel moves freely after nut tightening. If the wheel binds, loosen the nut slightly.



A-42

9T



A-43

10T



A-44

11T



A-45

12T



A-46

13T



A-47

14T

Tips: Switching the pinion gear may cause of changing the gear ratio for suitable in various tracks layout.

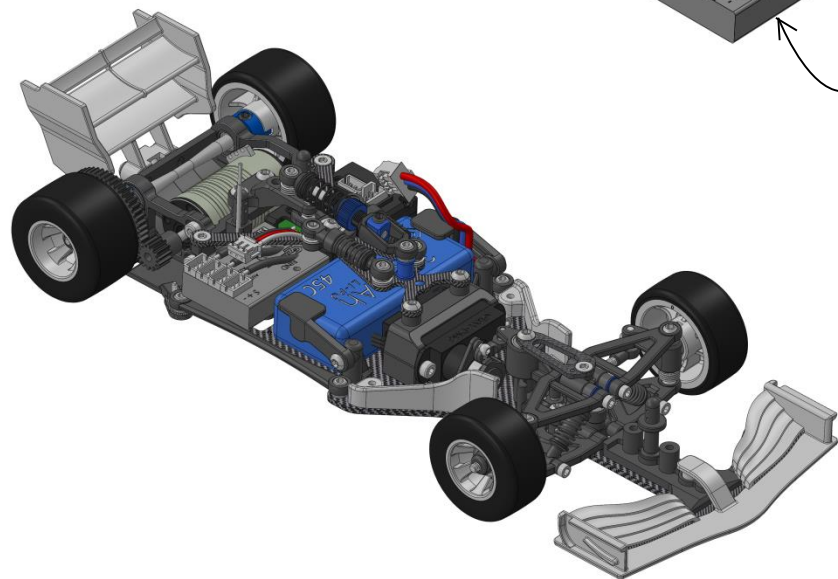
A-45

Motor not included  
Recommendation  
For competition 3500KV or above  
For beginner 2500KV  
Available at GL Online Shop

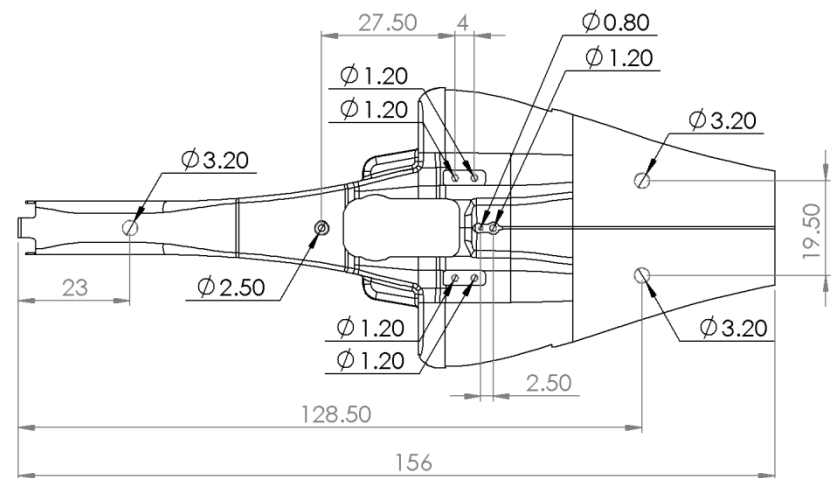
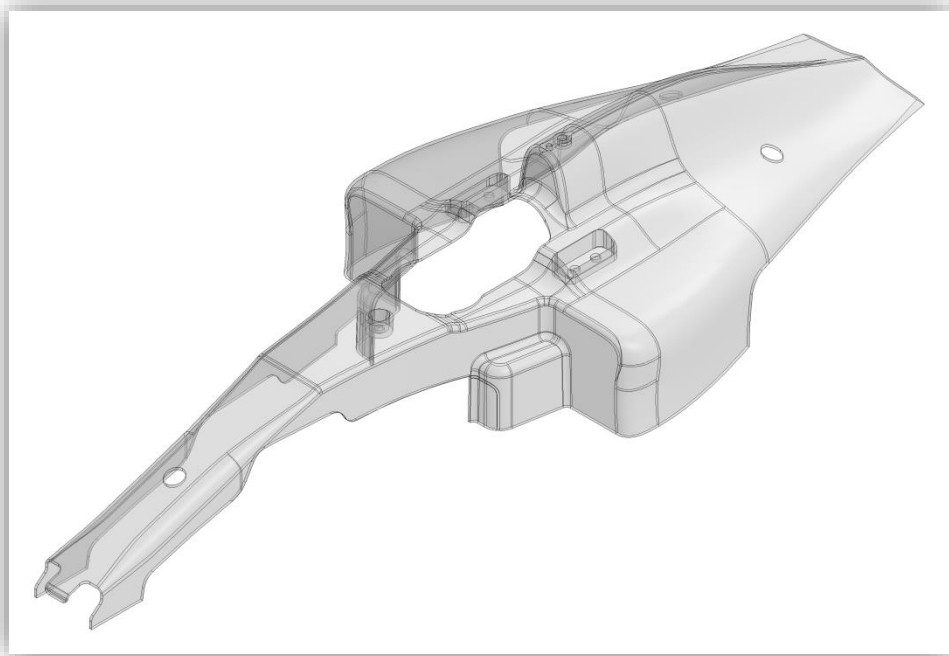
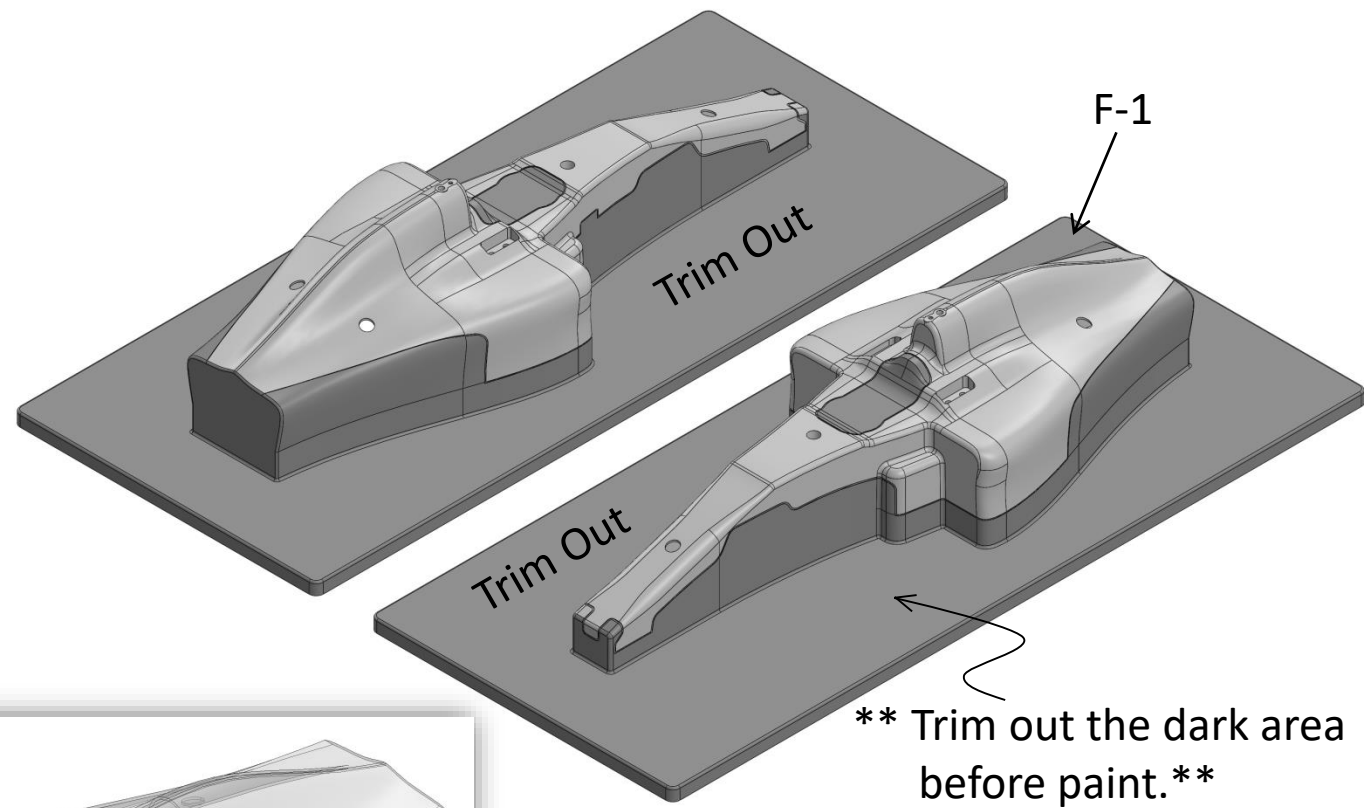
M2x4  
Cup Head

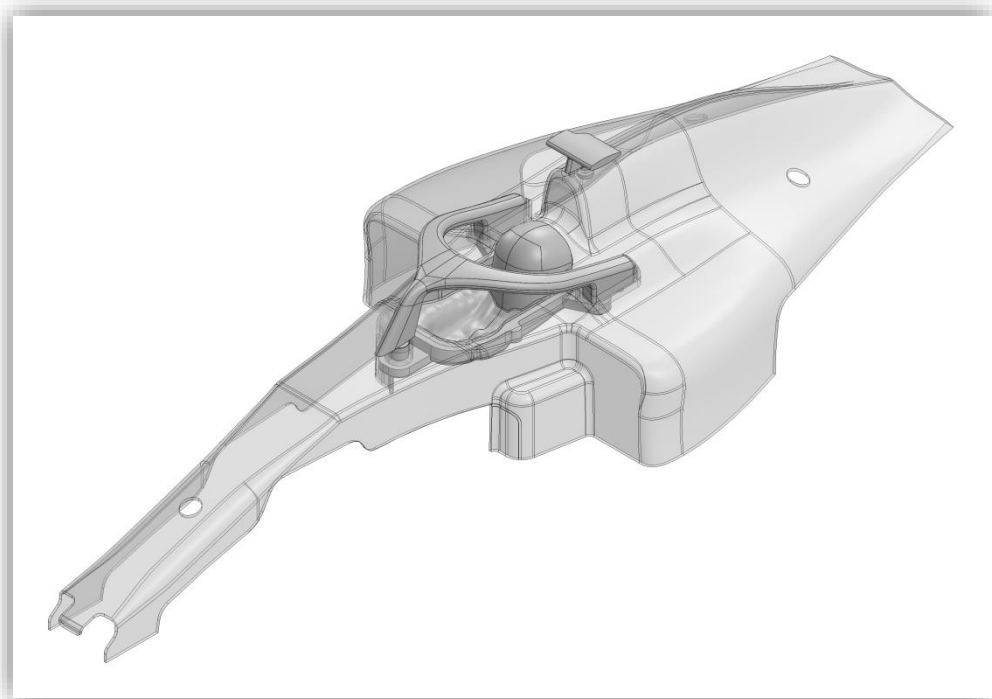
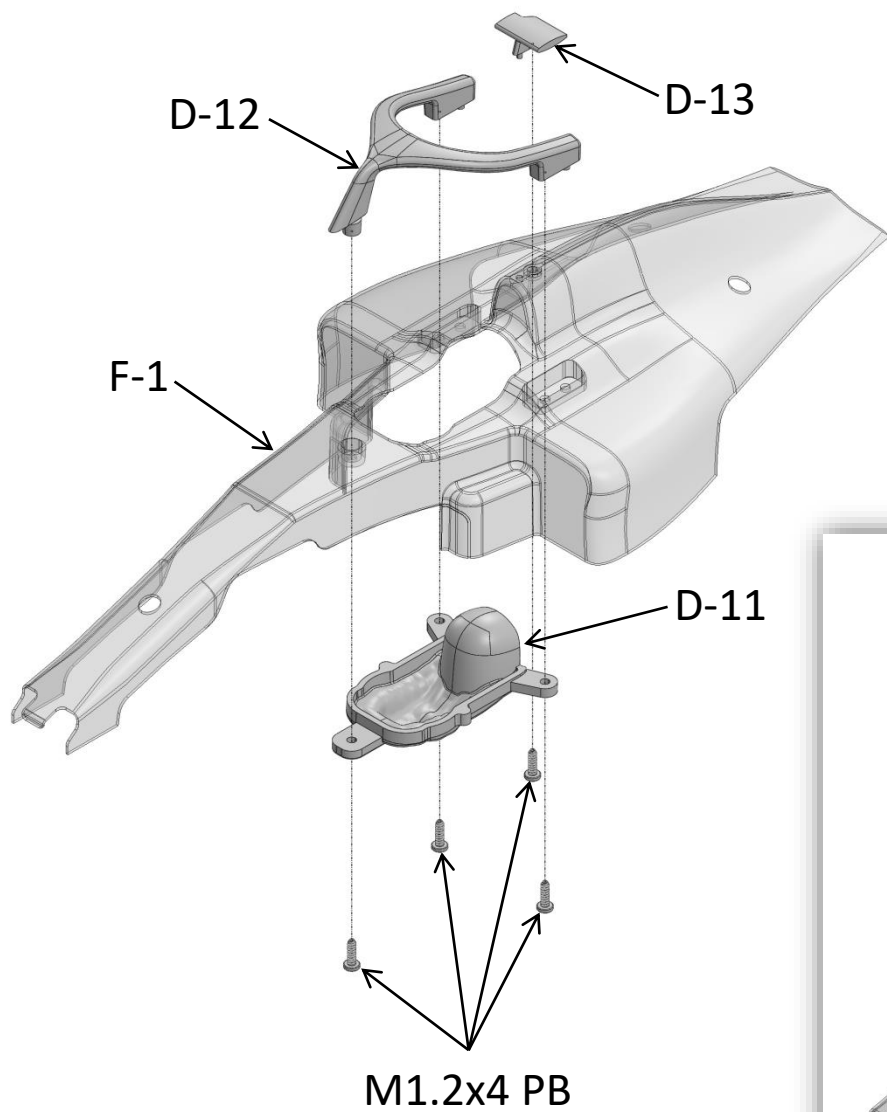
Li-Po Battery not included  
Available at GL Online Shop

Receiver not included  
Recommended the  
RX Receiver GX-031  
Available at GL Online Shop

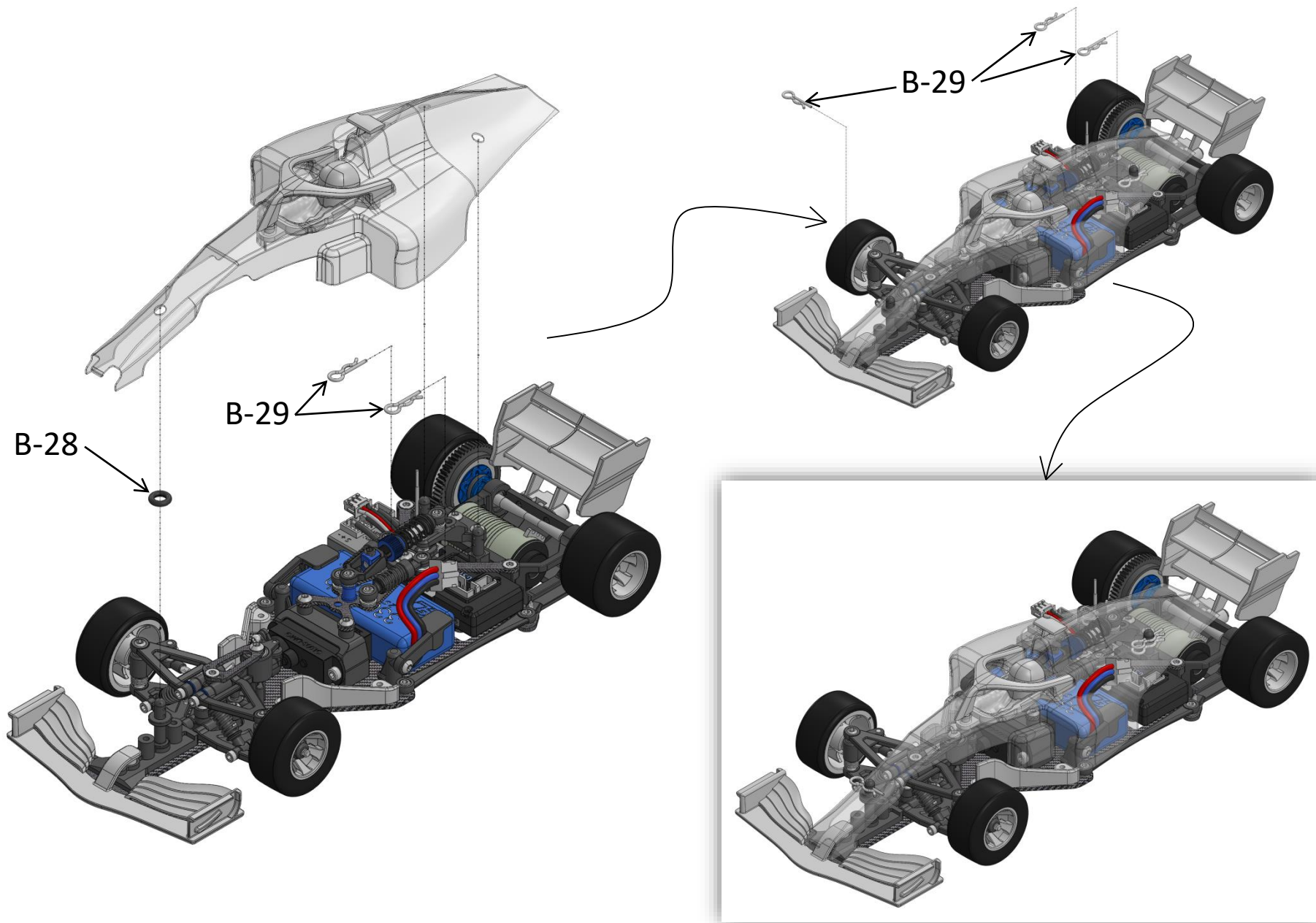


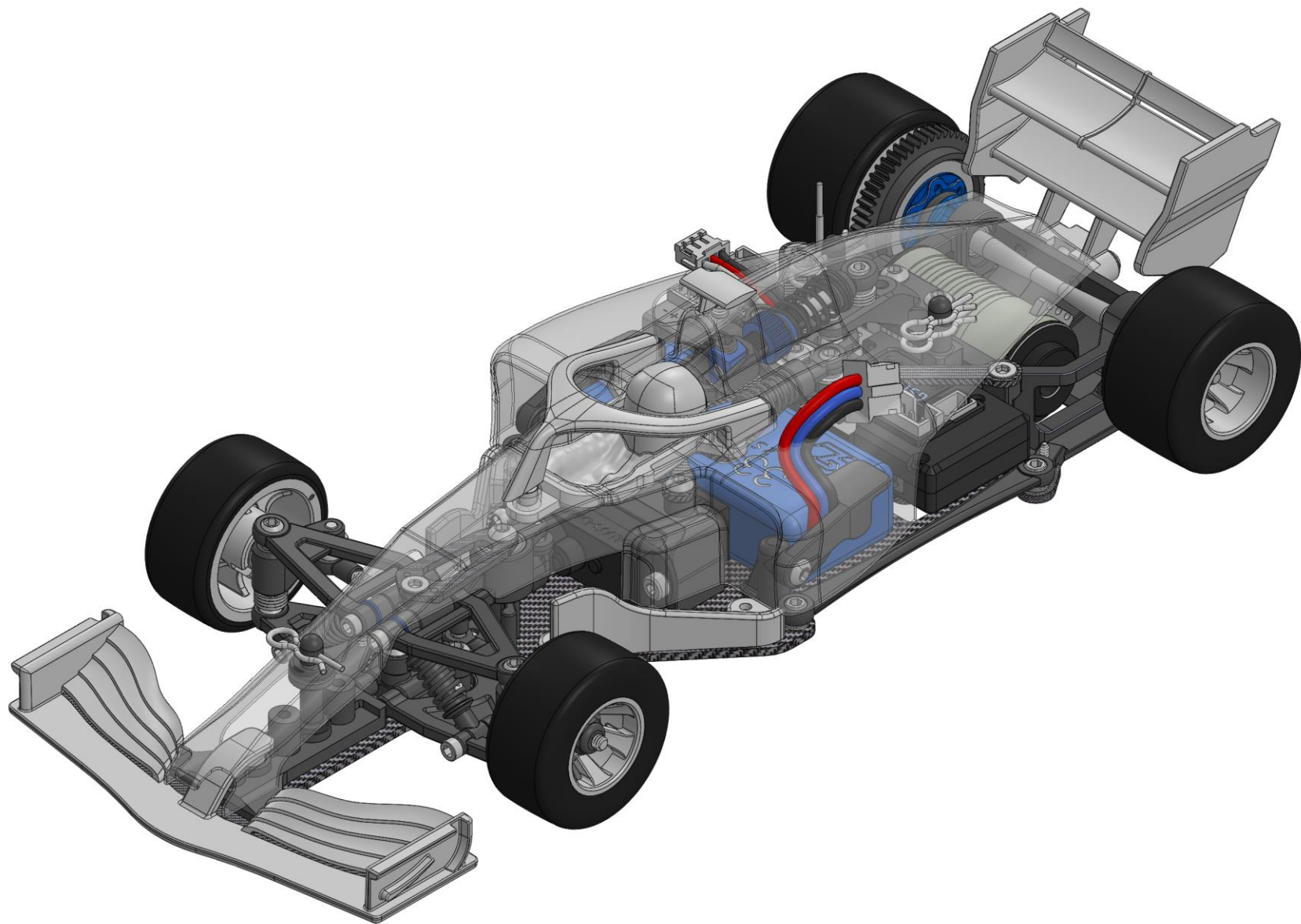


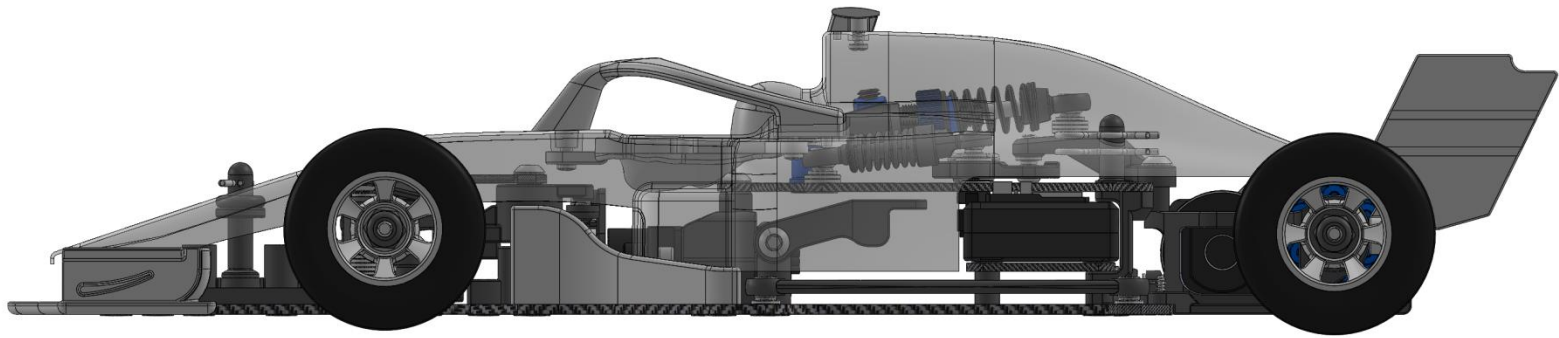




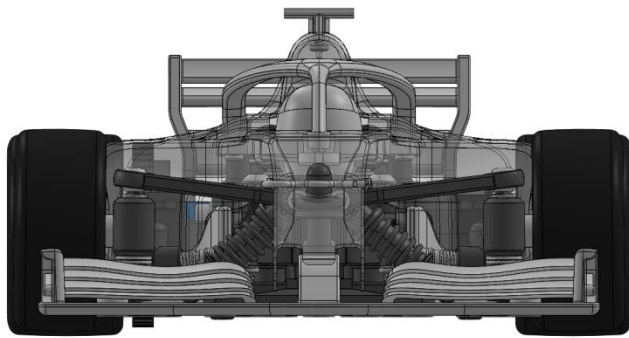




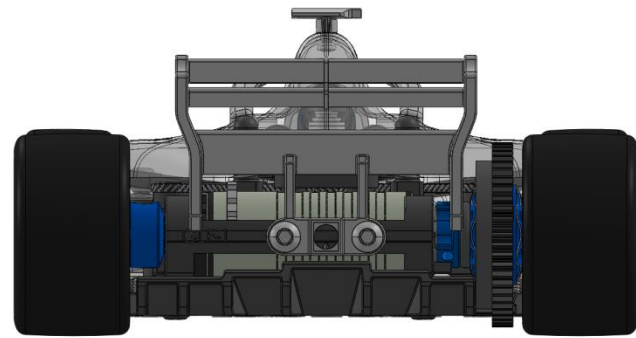




Side View



Front View



Rear View

## Basic setup tips before 1<sup>st</sup> run

- 1, Checking all the ball joint and movement parts are moving freely.
- 2, Applying suitable grease on Shocks (P-15 and P-21) and ball differential (P-10).
- 3, Tire around the Rims (P-21) must be fixed with Superglue (Aron Alpha).
- 4, Adjust the down stop screw (P-15) to let the front lower arm in horizontal. **NO DOWN STOP IS REQUIRED IN FIRST SET UP.** Applying down stop may cause steering sensitive.
- 5, Adjust the central shocks to line up in flat the chassis front and rear.
- 6, Adjusting ride high around **3mm** on front (P-20) and rear (P-11) before run.
- 7, Keep the length of Steering Rods (P-13) in between 13.4mm to 13.6mm. Shorter may cause toe-out for stable in cornering. Longer may cause toe-in for steering sensitive.
- 8, For beginner: Motor 2500KV, Front Tire GLF001-25/GLF001-27, Rear Tire V9R10-F1-GL.
- 9, For competition: Motor 3500KV or above, Front Tire GLF001-23/GLF001-25, Rear Tire V1R10-F1-GL.
- 10, After the body shell installed to the chassis, check all the moving parts be freely before run.

## Recommended basic option parts available at GL online shop

- GLF-OP-001 Side Shock Spring
- GLF-OP-002 Front Shock Spring
- GLF-OP-003 Side Screw Adjustable Shock
- GLF-OP-004 Front Screw Adjustable Shock
- GLF-OP-005 Steering Knuckles (1°)
- GLF-OP-007 Central Long Piston Rod (Compatible with GLR)
- GLR-003-CL Central Shock Spring (Compatible with GLR)