**BBW V4**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Photos** | **Solidworks**  **Parts** | **Quantity** | **Need of**  **Manufacturing** | **Material** | **STL** | **G-code** |
| Side Chassis Frame |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | No | Steel | - | - |
| Chassis Mount |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | No | Steel | - | - |
| Black Box Frame |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | No | Steel | - | - |
| Small Plate |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | Yes | Plastic | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4/STL) |  |
| Original Clamp |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | [Purchase](https://www.mcmaster.com/u-bolts/system-of-measurement~metric/id~30mm/) | Plastic | - | - |
| Thick U bolt |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | [Purchase](https://www.mcmaster.com/u-bolts/system-of-measurement~metric/id~30mm/) | metal | - | - |
| Steel Frame New |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 2 | custom | aluminum plate 6061 | - | - |
| Mid Link |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 2 | Yes | plastic | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4/STL) |  |
| Back Link |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | Yes | plastic | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4/STL) |  |
| Front Link |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | Yes | Plastic | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4/STL) |  |
| Sleeve 20mm |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | Yes | plastic | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4/STL) |  |
| PA-14P |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | [Purchase](https://www.amazon.com/PROGRESSIVE-AUTOMATIONS-Electric-Actuator-PA-14P-4-35/dp/B00Q74I8TI/ref=sr_1_2?keywords=PA-14P-4-35%2Blinear%2Bactuator&qid=1662603873&sr=8-2&ufe=app_do%3Aamzn1.fos.f5122f16-c3e8-4386-bf32-63e904010ad0&th=1) | - | - | - |
| End Link  New Metal |  | [link](https://github.com/mlab-upenn/gokart-mechatronics/tree/main/BBW%20V4) | 1 | Custom | aluminum plate 6061 | - | - |
| Hex Socket Head Machine Screws, (M8x120mm) |  | - | 8 | [Purchase](https://www.amazon.com/METALLIXITY-Socket-Machine-Screws-M8x120mm/dp/B09YNLHP5Q/ref=sr_1_1_sspa?crid=1Y5MZ0CQAXP77&keywords=m8x120mm%2Bscrews&qid=1664676687&qu=eyJxc2MiOiIxLjg1IiwicXNhIjoiMC4wMCIsInFzcCI6IjAuMDAifQ%3D%3D&sprefix=m8x100mm%2Bscrews%2Caps%2C55&sr=8-1-spons&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExNVpFRkJKTThZSzgmZW5jcnlwdGVkSWQ9QTA1MjAwMThNVjY3U0tSSDA4UDEmZW5jcnlwdGVkQWRJZD1BMDQ3MzYwODJEM01HVksxRk5WWFMmd2lkZ2V0TmFtZT1zcF9hdGYmYWN0aW9uPWNsaWNrUmVkaXJlY3QmZG9Ob3RMb2dDbGljaz10cnVl&th=1) | metal | - | - |
| M6 x 70mm Threaded 1mm Pitch Hex Socket Head Cap Screws Bolts |  | - | 1 | [Purchase](https://www.amazon.com/uxcell-Threaded-Pitch-Socket-Screws/dp/B012THHR1G/ref=sr_1_5?crid=2S9ZIW0Q60Q2M&keywords=M6+*+70&qid=1668200774&sprefix=m6+70%2Caps%2C86&sr=8-5) | metal | - | - |
| M6 washers & nuts |  |  |  |  |  |  |  |
| M8 washers & nuts |  |  |  |  |  |  |  |

**For earlier versions, please check the corresponding folders for further details.**