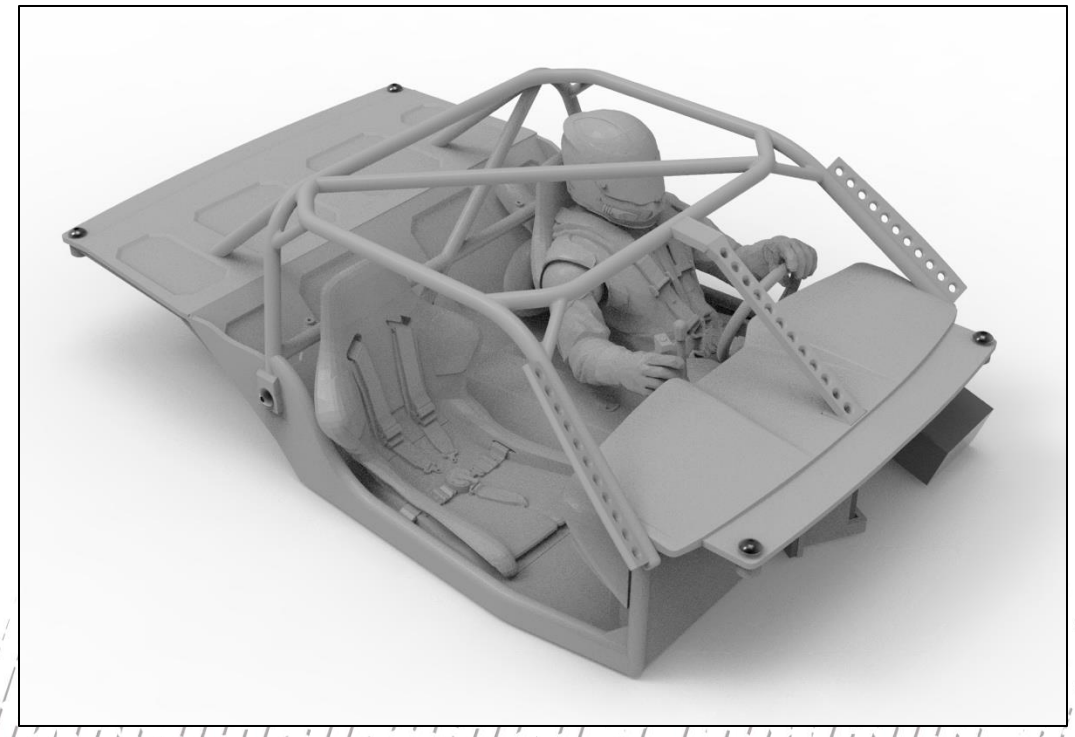
KNIGHT®
CUSTOMS



Hooni working interior detail set manual

Items required

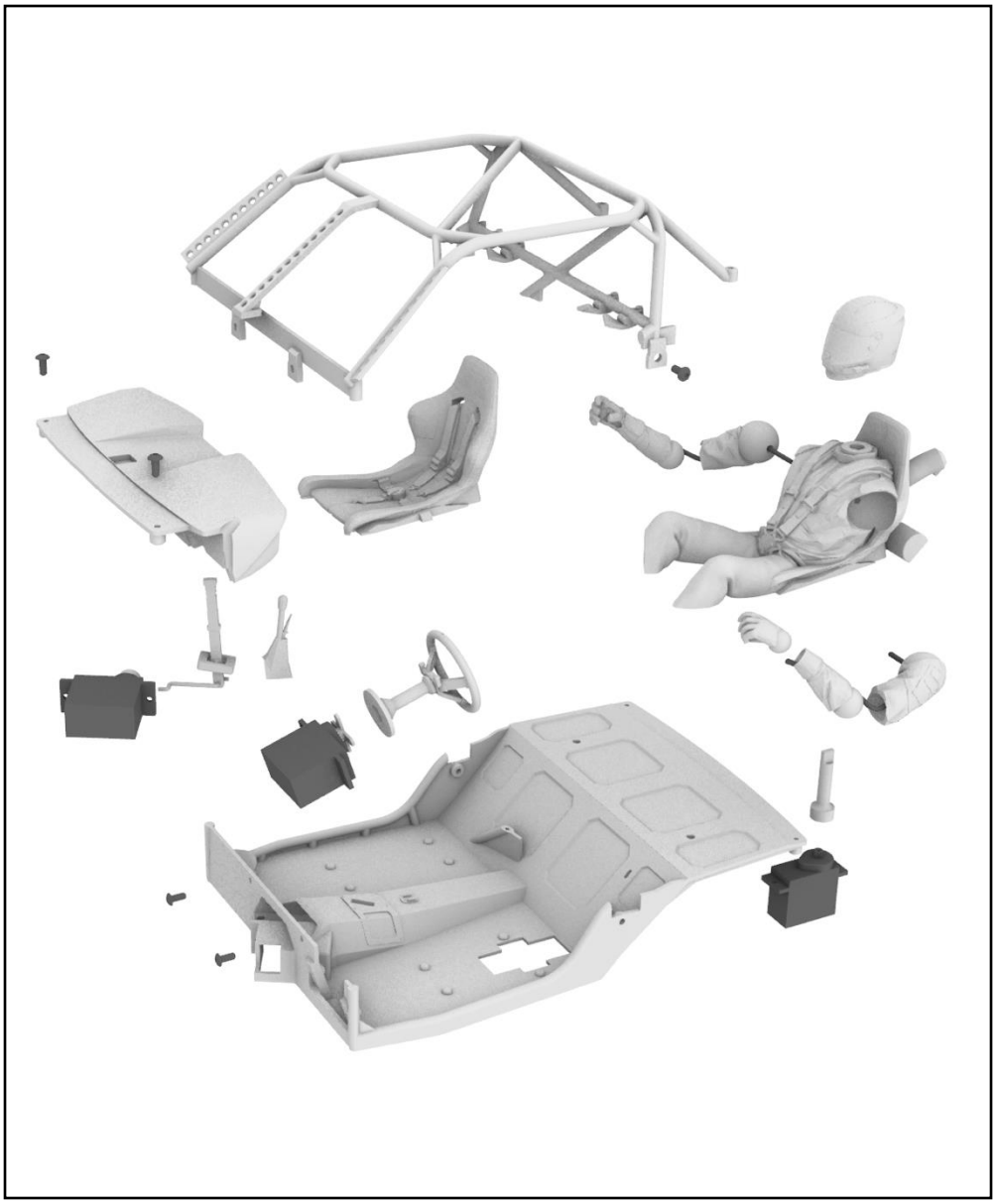
Sold separately

You will need 3 micro servos and a 4 or 5 channel receiver / transmitter to complete the assembly. We recommend Hitec HS-55 Feather Servo 7.5g Hybrid I.C. servos.

We recommend using scale winch rope to articulate the arms.

A regular hot glue gun or instant glue can be used fix required parts in place.

NOTE: Using other micro servos may require more modifications to ensure the servo spline location is the correct offset to the 3D printed parts.



3D printer set up

Your purchase includes all the STL files to complete the assembly. G-codes are also included in the download. These G-codes are a recommended starting point for those new to 3D printing or just looking for a quick start.

The G-codes can be sent directly to your printer and come with our recommended settings, orientation & supports for printing in PLA filament. Unless otherwise stated, we recommend Bambu Lab PLA Matte for best results.

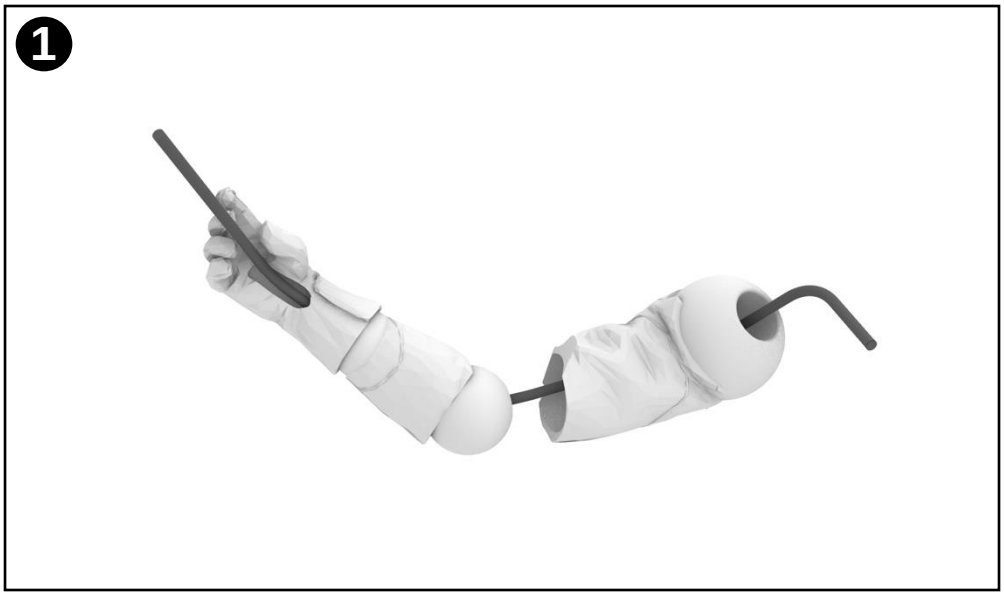
G-codes are Included for the Bambu Lab (P1, X1) & Prusa series of printers. The Prusa G-codes should also work on other printers such as the Ender series of printers that have a print bed 20x20cm or larger.

1

Driver arm assembly

Thread the cord through the right arm to join the two parts together.

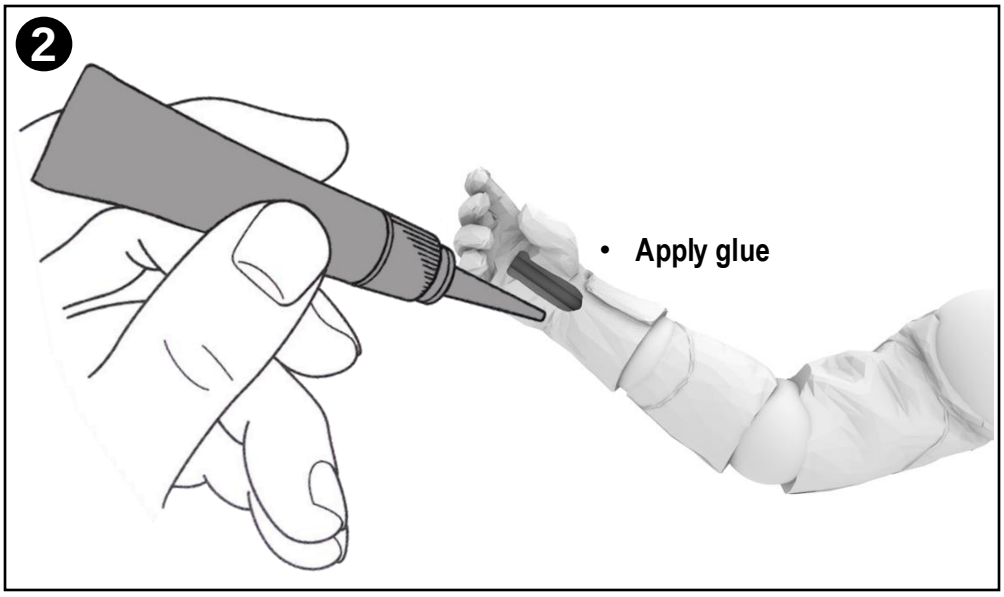
NOTE: We recommend using scale winch rope to articulate the arms



2

Glue the cord to the hand being sure the joints move smoothly.

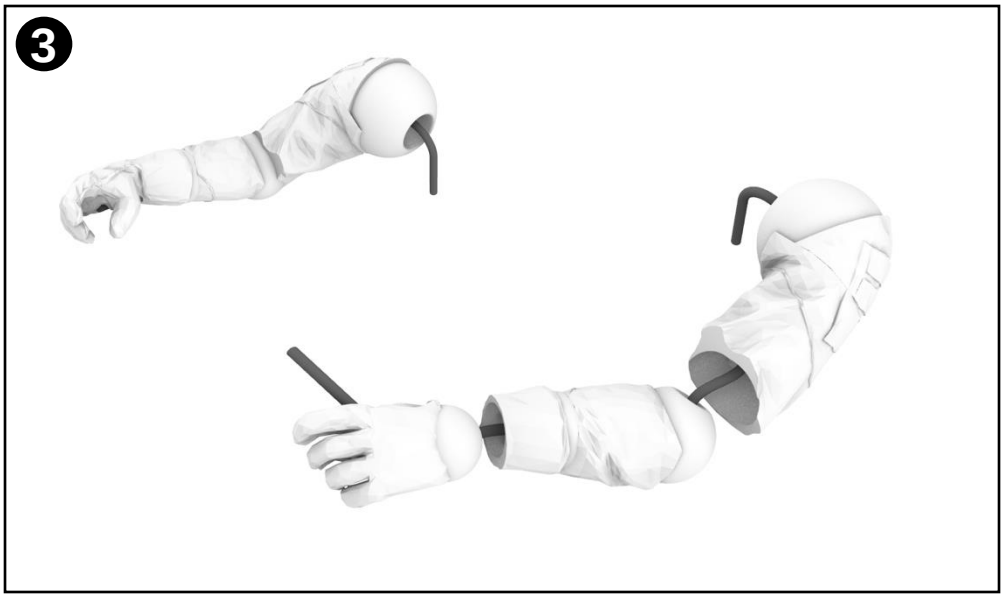
NOTE: Do not glue the cord at the other end.



3

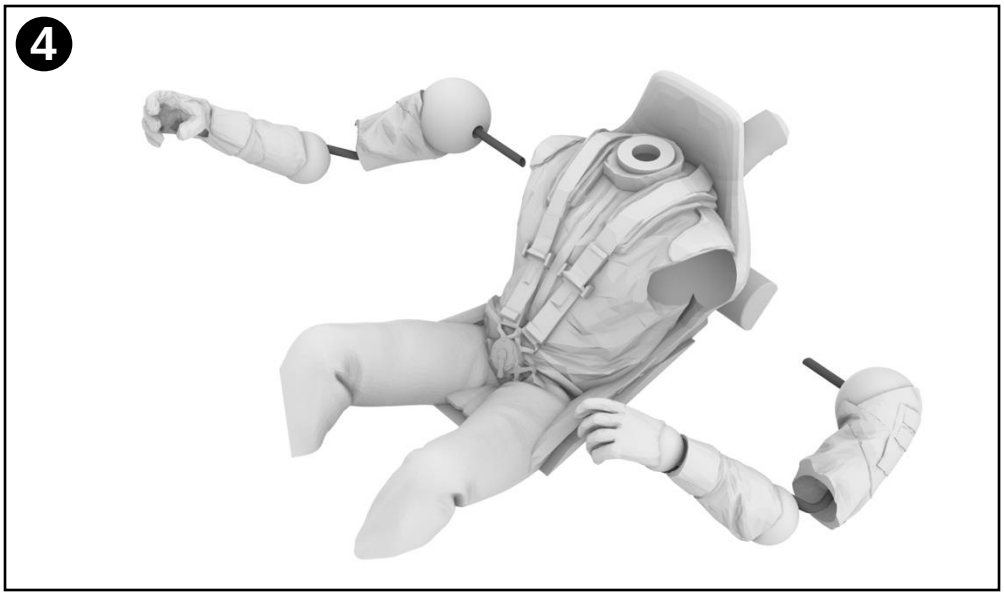
Repeat for the left arm

NOTE: the left arm has extra articulation in the wrist.



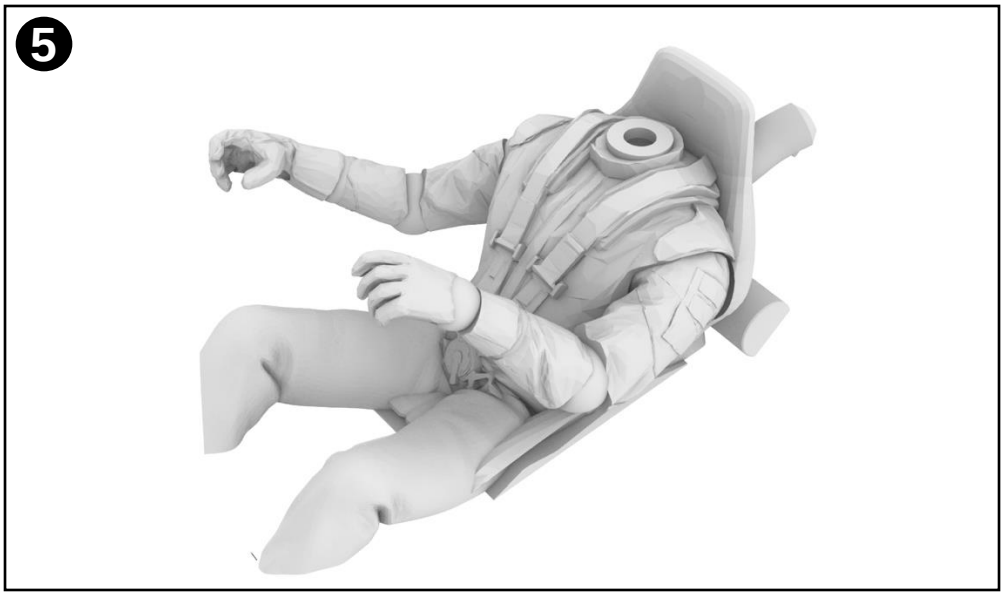
4

Insert cord of both arms into the driver arm sockets.



5

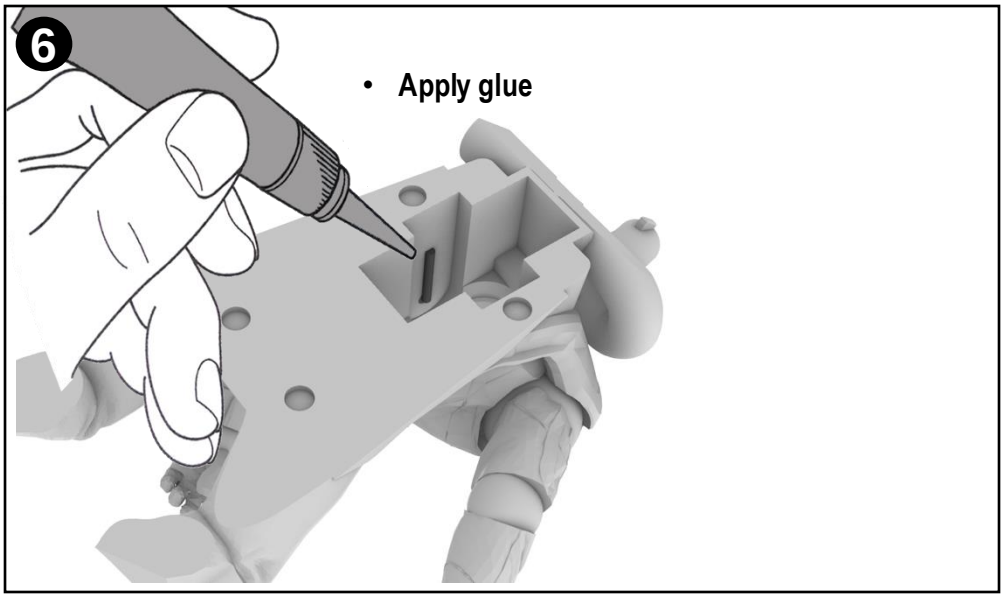
Pull cords tight to ensure both are arms are located in the socket and can move freely.



6

Both right and left cord can be glue in place inside the body as shown.

NOTE: **be careful not to get glue into the shoulder joint area.**

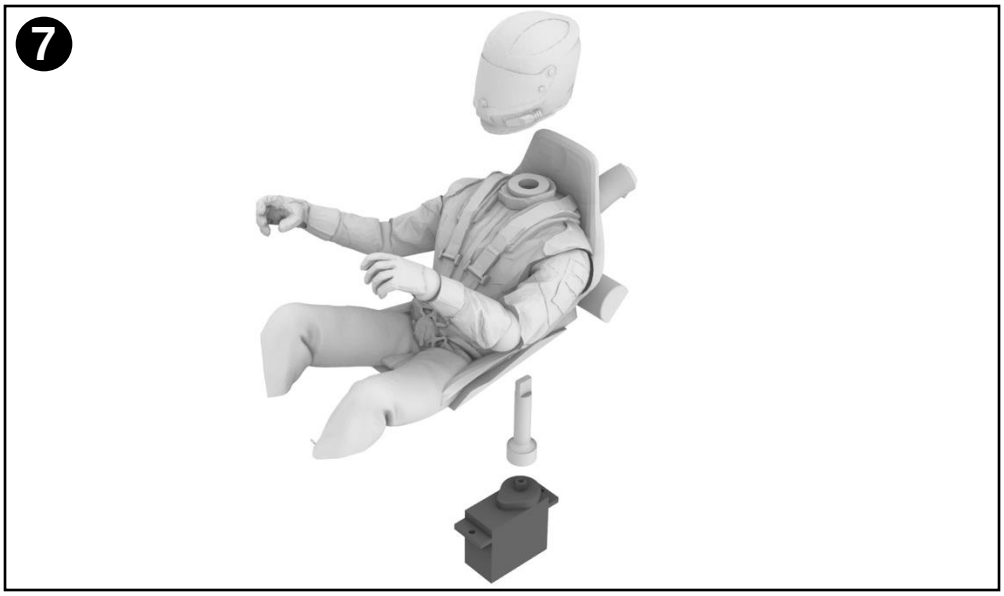


7

Driver head servo install.

Install head posts onto your micro servo.

NOTE: Be sure your servos are centered before assembly. Depending on your print quality, you might need to hand modify the neck posts to fit your servo securely.

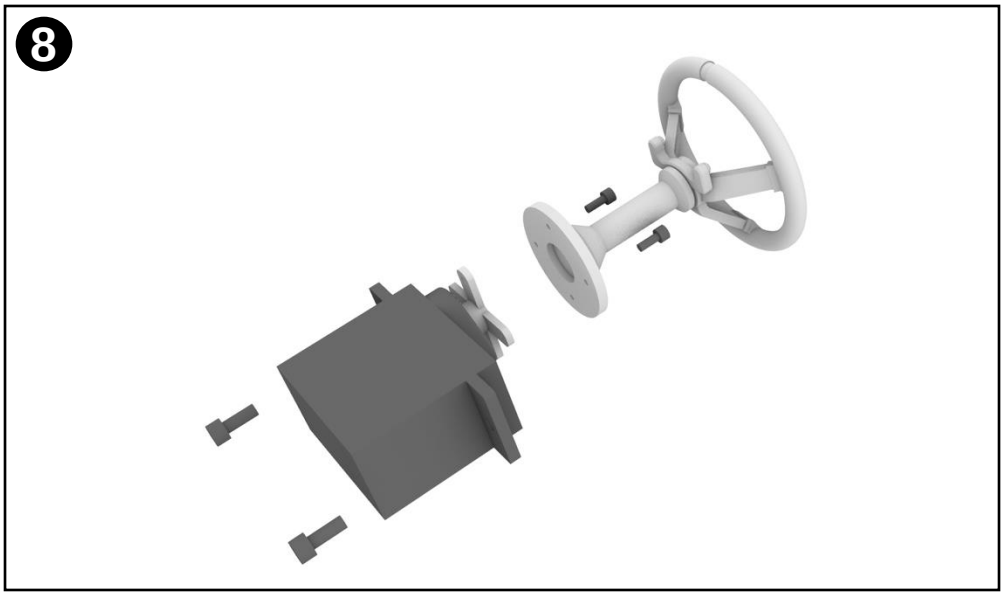


8

Steering wheel assembly

The steering wheel should be mounted to the stock servo horn on the micro servo. Use the screws provided with the servos.

NOTE: Ensure servo is centered before assembly

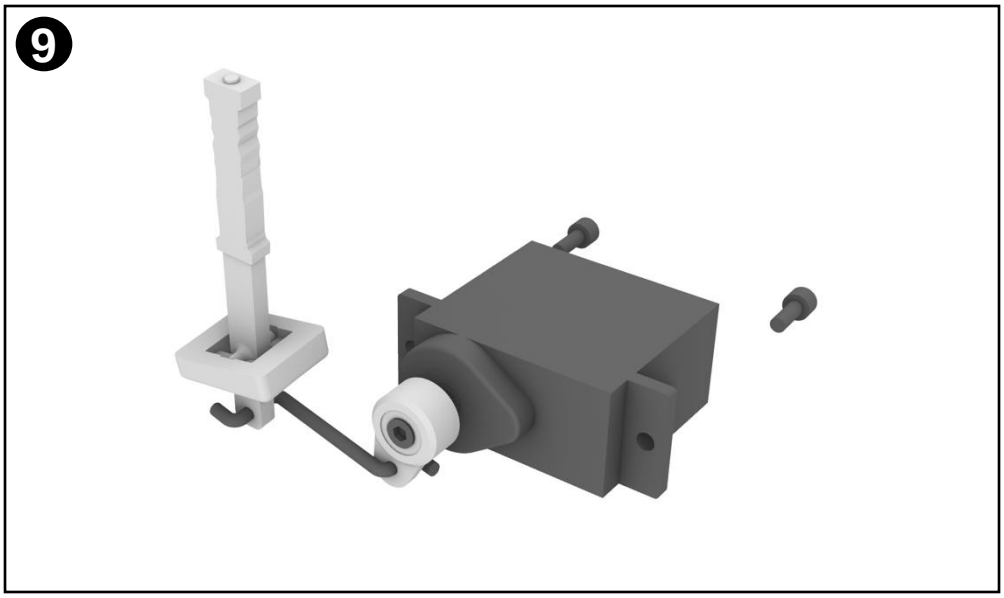


9

Hand brake lever servo assembly.
Mount the hand brake to the stock micro servo horn as shown.

We recommend fabricating the link from a paper clip.

NOTE: be sure to center the servo before assembly.



10

Install micro servo on the underside of the interior base using the screws included with the servo.

NOTE: Check the hand brake is not binding and can move freely. Be careful not to get glue into the joint area.

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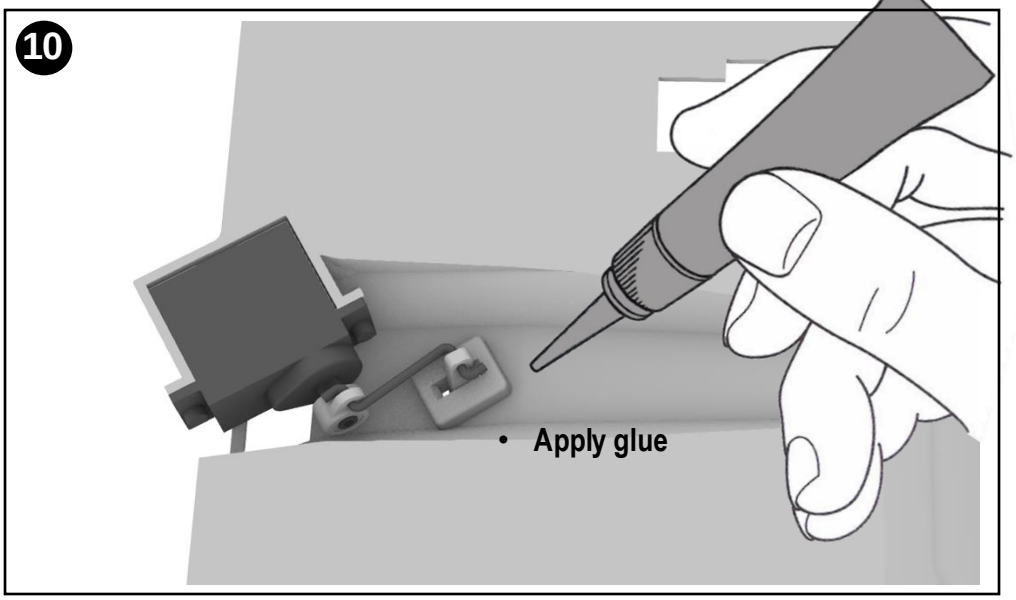
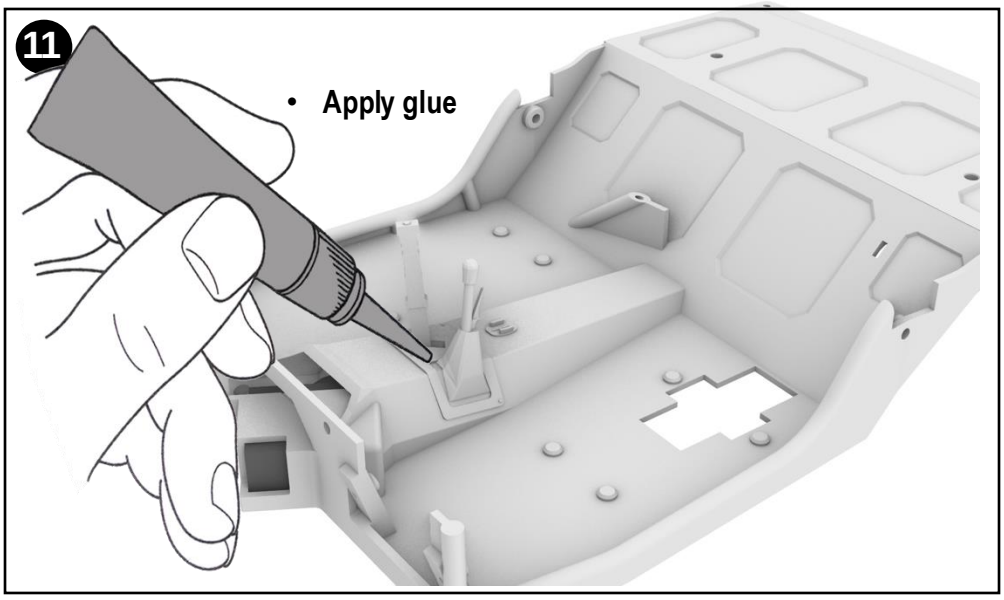


11

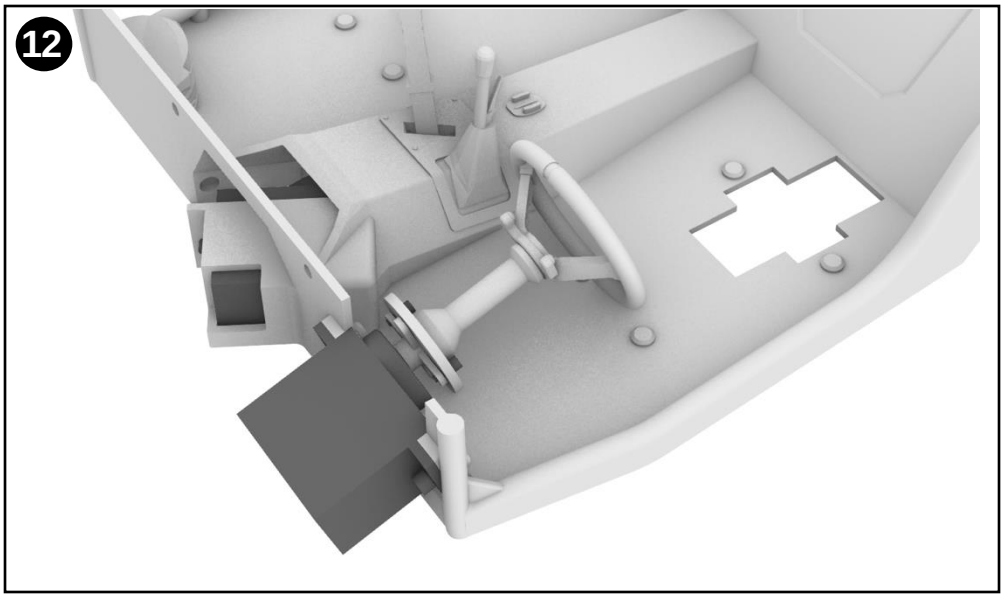
Shift lever install.

Mount the shifter to the interior base as shown.



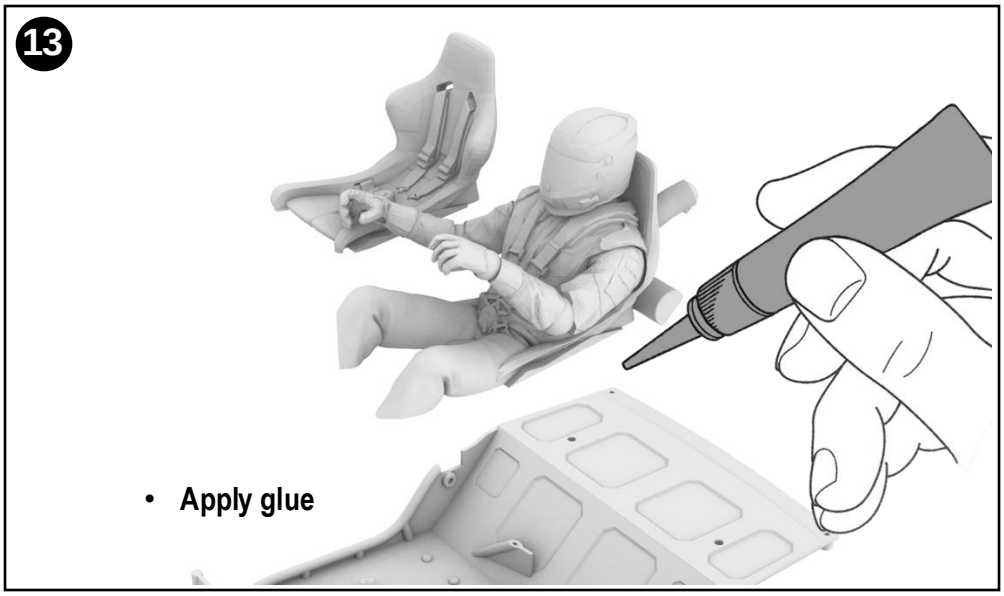
12

Install micro servo on the underside of the interior base using the screws included with the servo.



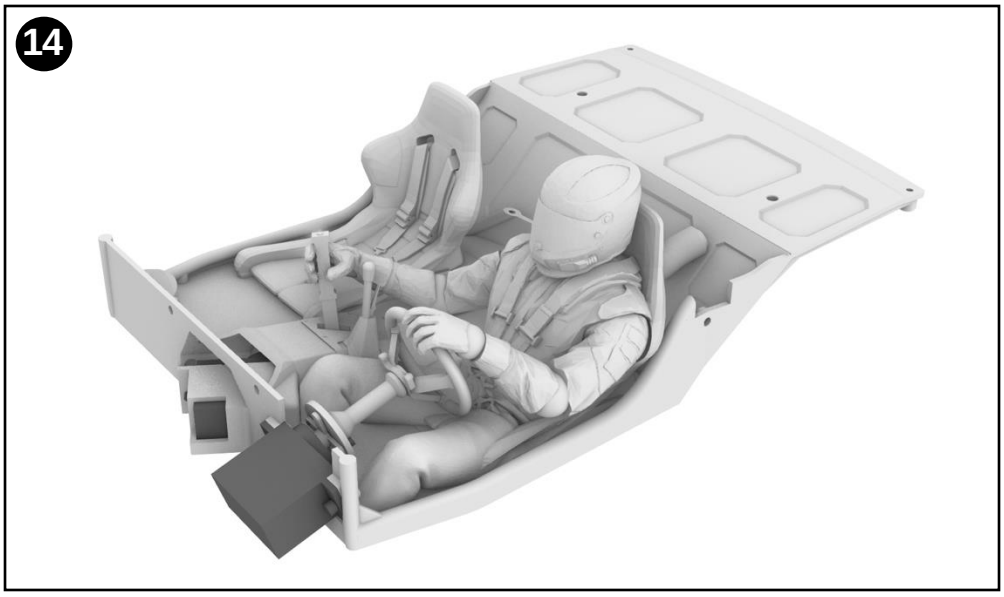
13

Install driver and passenger seat. Glue in position.



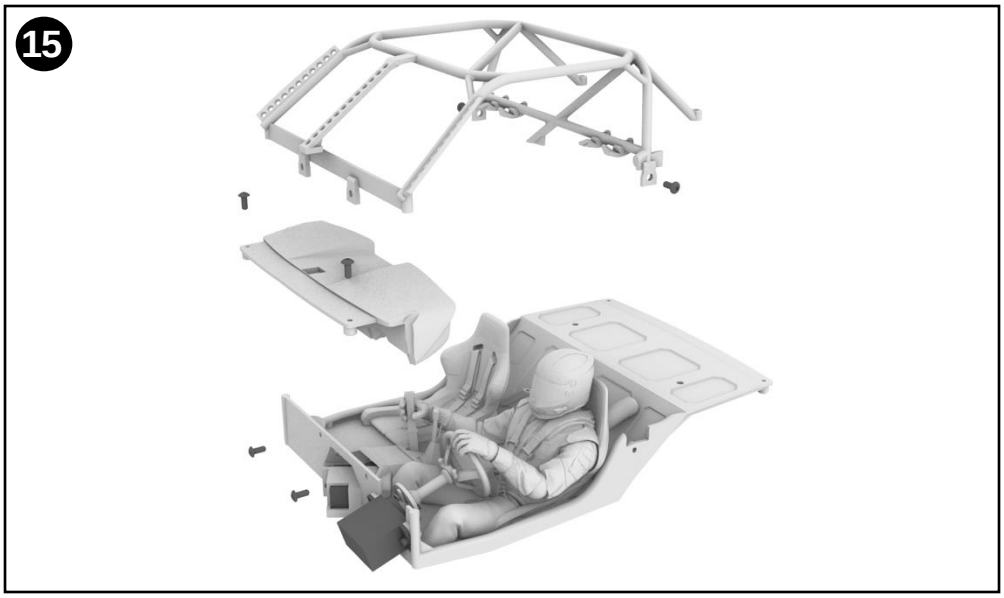
14

Driver installed



15

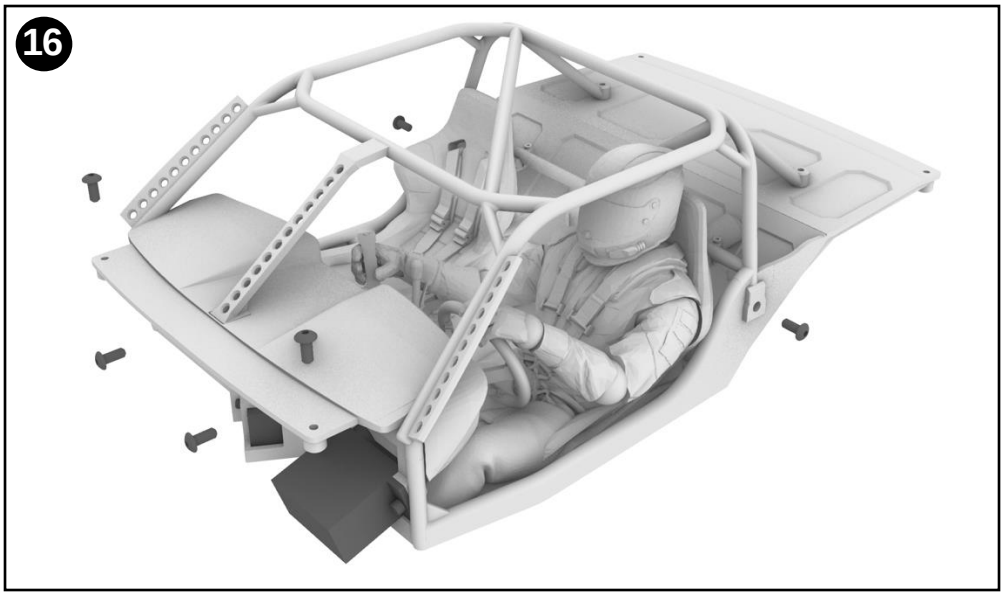
Install cage and dash. Use M3x5mm screws (sold separately) to hold cage in place.



16

Congratulations, install complete.

NOTE: Now is a good time to connect to your receiver & electronics to make sure everything is moving correctly.

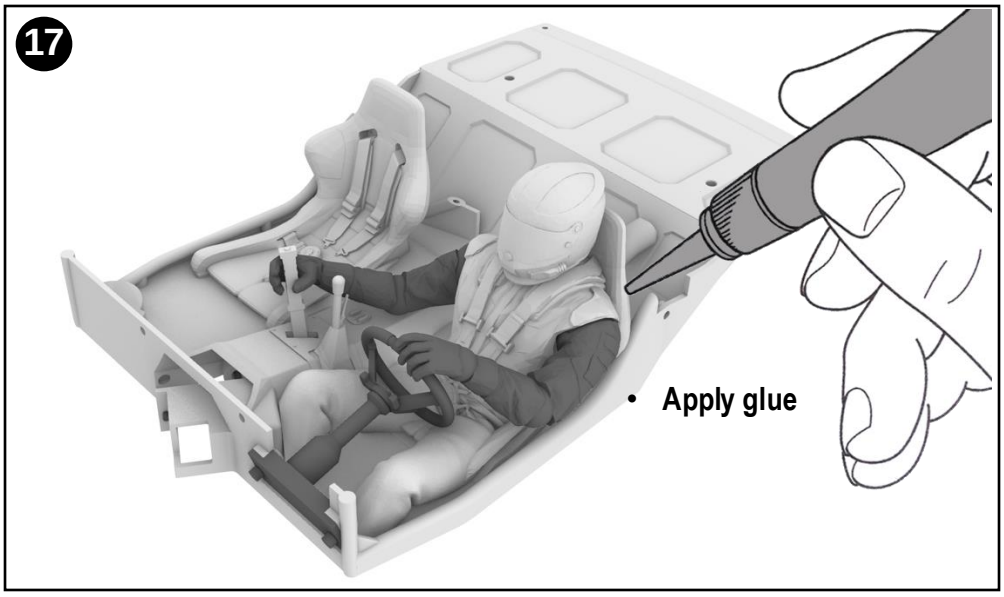


17

Optional fixed interior.

The parts shown in dark grey can be added if you do not wish to install micro servos.

All parts including the head will need to be glued into place.



Congratulations, your Hooni working interior is complete.

Servo set up: There are a few ways to connect your servos to your transmitter depending on the channels available and the features of your transmitter. The simplest way is to use servo lead y-connectors to connect all steering servos to the steering channel. For best results use a channel for each servo and the mixing function on the transmitter to program each servo movement depending on your specific needs.

Note: We recommend Bambu Lab PLA Matte for best results, however PLA has a lower melting point and you should not leave your interior stationary in direct sunlight for extended periods. Doing so might cause parts to warp or deform.