



CARBON 13 Printable Jointed Figure - Type F - Beta files



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Summary

The next generation of 3D printable action figures!

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Tags: [toy](#) [figure](#) [articulated](#) [snapfit](#) [poseable](#)
[actionfigure](#) [lucky13](#) [dummy13](#)

About this model

Say hello to **Carbon 13**, the latest generation of 3D printable action figures.

Carbon 13 introduces a hybrid joint system that preserves the dynamic range of articulation you expect from the 13 series while freeing up space for sleek, sculpted body forms.

This is the "type F" version, which has a petite and feminine build. The more masculine **type M** is also available.

Like all Lucky 13 models, Carbon 13 comes together with nothing but plastic and patience. No glue or additional hardware is needed.

At 100% scale, Type F will be 127mm (5") in height - about 1:13 scale to a real human.

And of course, Carbon 13 is compatible with many of the [remixes](#) our amazing community has created for Dummy 13 and friends.

Lastly, please note that this is a beta release. It has been polished to a level that I am comfortable releasing - but your feedback will help make it even better!

Printing

This model consists of **body** parts and **joint** parts.

Body parts are most of the visible model, and they can be printed in any filament type. (I would still recommend avoiding brittle materials like silk PLA).

Joint parts make up the mechanical connections, and need to be printed in a tougher material like PETG or ABS. My usual material of choice is ASA. PLA is not recommended because it likes to "creep," causing the joints to get loose after a week or two.

The parts are provided in a few different formats. You can use this chart to pick the style that works for you.

I want to...	Do this
Print all the parts at once	Use the "allParts" files and print one of each.
Print all the parts on a frame (runner/kit card)	Use the "runner" files and print one of each.
Pick which specific parts to print	Use the "individual parts" folders. Check the file name for parts that require multiple copies.
Replace the feet with high heels / attach a backpack or display stand	Find the relevant parts in the "alternate parts" folder.

Side note: the Type M version of Carbon 13 uses many parts that look quite similar but aren't exactly the same. I strongly recommend that you print the two versions separately to avoid mixups.

Because you will be printing lots of small parts, **good bed adhesion is absolutely required**. Wash your print sheet with soap and water, and consider applying some adhesive or including a brim on particularly troublesome parts.

Here are my recommended print settings:

- Layer height: 0.15mm
- Infill: 20%
- Supports: none
- Brim: only as needed
- Perimeter generator: Arachne

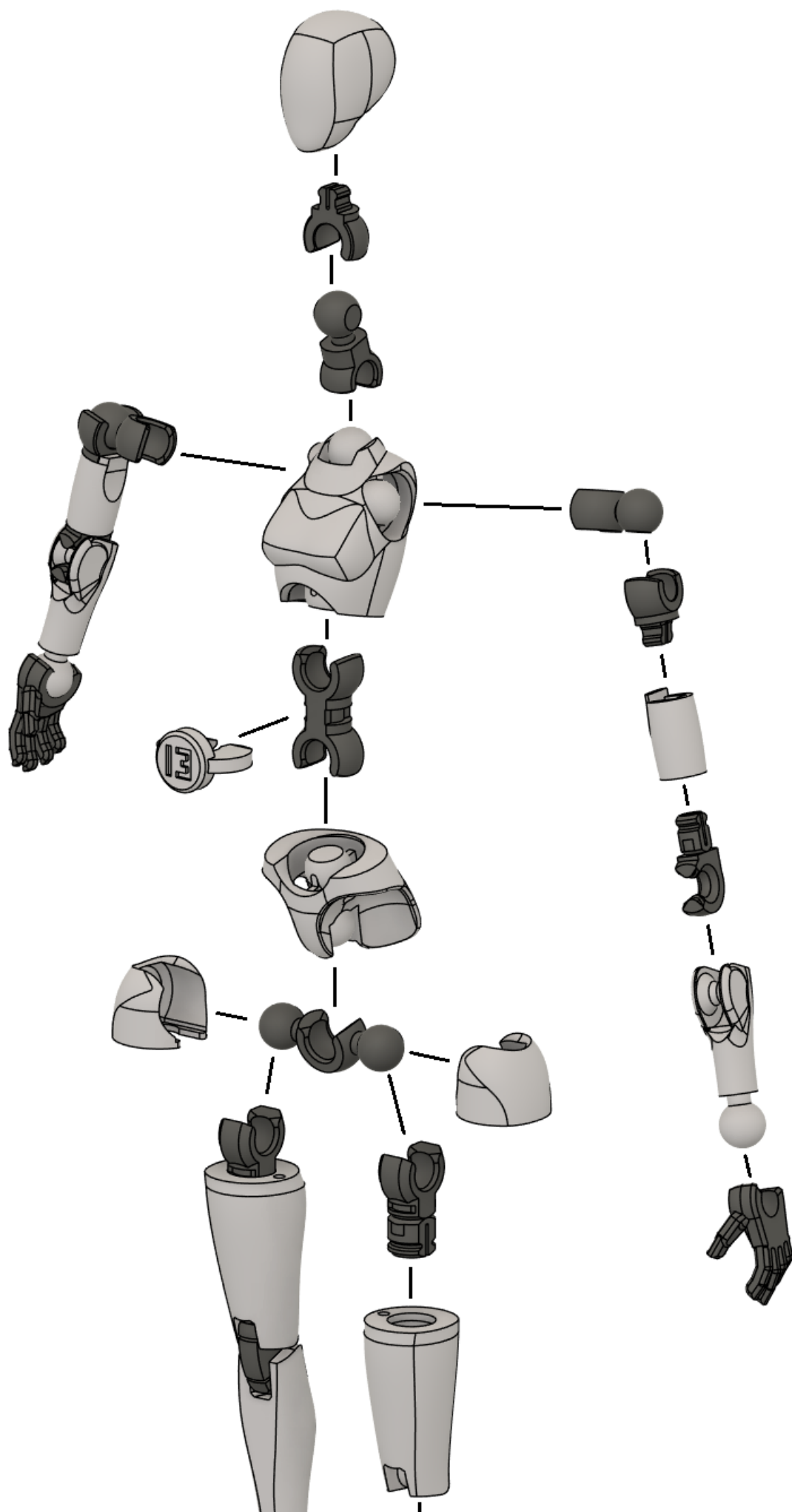
For further printing tips, check out my [Grabby the Claw](#) benchmark.

Assembly

If you printed the parts on runners, be sure to trim off any excess plastic with flush cutters or files.

All parts should snap firmly together with moderate force (please don't make your fingers bleed).

Assemble the parts as shown, paying close attention to the orientation of each part.



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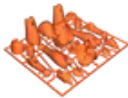
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Model files

 **Runners** 3 files

**runner_f_body-v8.stl**
☐ All body parts on a connected frame

**runner_f_hands-v8.stl**
☐ All additional hand parts on a connected frame



runner_f_joints-v5.stl

☐ All joint parts on a connected frame



Individual parts - body

15 files



body_f_belt-v4.stl



body_f_chest-v4.stl



body_f_foot_left-v3.stl



body_f_foot_right-v3.stl



body_f_forearm_2x-v9.stl

☐ Print 2x



body_f_head-v4.stl



body_f_hip_2x-v3.stl

☐ Print 2x



body_f_pelvis-v4.stl



body_f_shin_left-v3.stl



body_f_shin_right-v3.stl



body_f_thigh_left-v3.stl



body_f_thigh_right-v3.stl



body_f_toe_left-v3.stl



body_f_toe_right-v3.stl



body_f_upperarm_2x-v9.stl

☐ Print 2x



Individual parts - joints

11 files



joint_f_abdomen-v4.stl



joint_f_ankle_2x-v7.stl

☐ Print 2x



joint_f_clavicle_2x-v7.stl

☐ Print 2x



joint_f_elbow_2x-v6.stl

☐ Print 2x



joint_f_groin-v3.stl



joint_f_hand_grip_left-v3.stl



joint_f_hand_grip_right-v3.stl



joint_f_hip_2x-v3.stl

☐ Print 2x



joint_f_knee_2x-v5.stl

☐ Print 2x



joint_f_neck-v3.stl



joint_f_shoulderandhead_3x-v10.stl

☐ Print 3x



Individual parts - additional hands

20 files



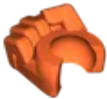
joint_f_hand_fingergun_left-v2.stl



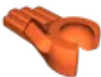
joint_f_hand_fingergun_right-v2.stl



joint_f_hand_fist_left-v2.stl



joint_f_hand_fist_right-v2.stl



joint_f_hand_knife_left-v1.stl



joint_f_hand_knife_right-v1.stl



joint_f_hand_ninja_left-v2.stl



joint_f_hand_ninja_right-v2.stl



joint_f_hand_open1_left-v2.stl



joint_f_hand_open1_right-v2.stl



joint_f_hand_open2_left-v3.stl



joint_f_hand_open2_right-v3.stl



joint_f_hand_peace_left-v3.stl



joint_f_hand_peace_right-v3.stl



joint_f_hand_platter_left-v2.stl



joint_f_hand_platter_right-v2.stl



joint_f_hand_point_left-v2.stl



joint_f_hand_point_right-v2.stl



joint_f_hand_thumbsup_left-v3.stl



joint_f_hand_thumbsup_right-v3.stl



Alternate parts

4 files



body_f_chest_withsocket-v2.stl

☐ Alternate chest with socket for Dummy 13 compatible backpacks



body_f_foothighheel_left-v3.stl

☐ Alternate left foot for high heels



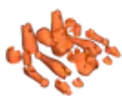
body_f_foothighheel_right-v3.stl

☐ Alternate right foot for high heels



body_f_pelvis_withball-v2.stl

☐ Alternate pelvis with ball for attaching to a display stand



allparts_f_body-v1.stl



allparts_f_hands-v1.stl



allparts_f_joints-v1.stl

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