

Glucose Test Strip Funnel

What You'll Need

Tools

- 3D printer
- Carving tool
- Sandpaper (120 grit suggested)

Materials

- Nylon PA6 with chopped carbon fiber filament
- Superglue (Cyanoacrylate)

Build Instructions

1. Print the *prodigy test strip funnel* and *prodigy test strip lever* parts. See Assembly Drawing sheet for part orientation and recommended printer settings.
2. Remove all support material and smooth any rough surfaces with wet sandpaper or a carving tool. It is extremely important that the inner surface of the funnel is smooth.

Assembly Instructions

1. Place a small dot of superglue on the tip of the *prodigy test strip lever* part and insert it into the *prodigy test strip funnel* as shown in the pictures below.



2. Follow the glue manufacture instructions for glue application and dry times.

3. Ensure glue does not get on inner surface of funnel as seen pictured below.



Using the Device

This device was designed for use with the Prodigy No Coding glucose test strip container. It has a container opening diameter of 1 1/16 inch. Other containers may not fit this device effectively. It is designed to be used with one or two hands. The lips on the small and large ends of the funnel help in inserting and removing the funnel from the test strip container.

Dispensing steps:

1. Insert the large end of funnel into glucose test strip container. Be careful not to bend or crush test strips with the post that inserts into the middle of the container.



2. Once funnel is inserted into container, shake the container gently in a vertical orientation to allow test strips to disperse evenly. It helps to tap bottom of container vertically on a hard surface, like a tabletop.

Designed by rehabilitation engineers at the Central Virginia VA Health Care System.
Questions? Contact vharicRehabEngineer@va.gov.

3. Hold container and funnel horizontally with fingertips and gently roll the container back and forth.



4. Angle tip of funnel down and gently shake container forward to dispense test strips. More than one test strip may come out, but they should stop at the end of the funnel. It is not unusual for the test strips to jam and not come out on the first attempt. If this happens, tap the container bottom vertically on a hard surface, and repeat steps 3 and 4.



5. Once test strips are visible in funnel opening, use index finger on bottom of funnel lever to push test strip up from the funnel channel.



6. While still pressing the funnel lever with index finger use thumb to slide single test strip from funnel channel. This should dispense a single test strip.



7. Remove the funnel device attached to the glucose test strip bottom when not in use. The test strip container should be re-capped when not in use.

Safety precautions

Only use the product as described in this document.

Do not leave the funnel device attached to the glucose test strip container when not in use. Discontinue use if any components crack or break

Clean with a wipe of your choice. However, 3D printed components are porous, so sanitization is not guaranteed.

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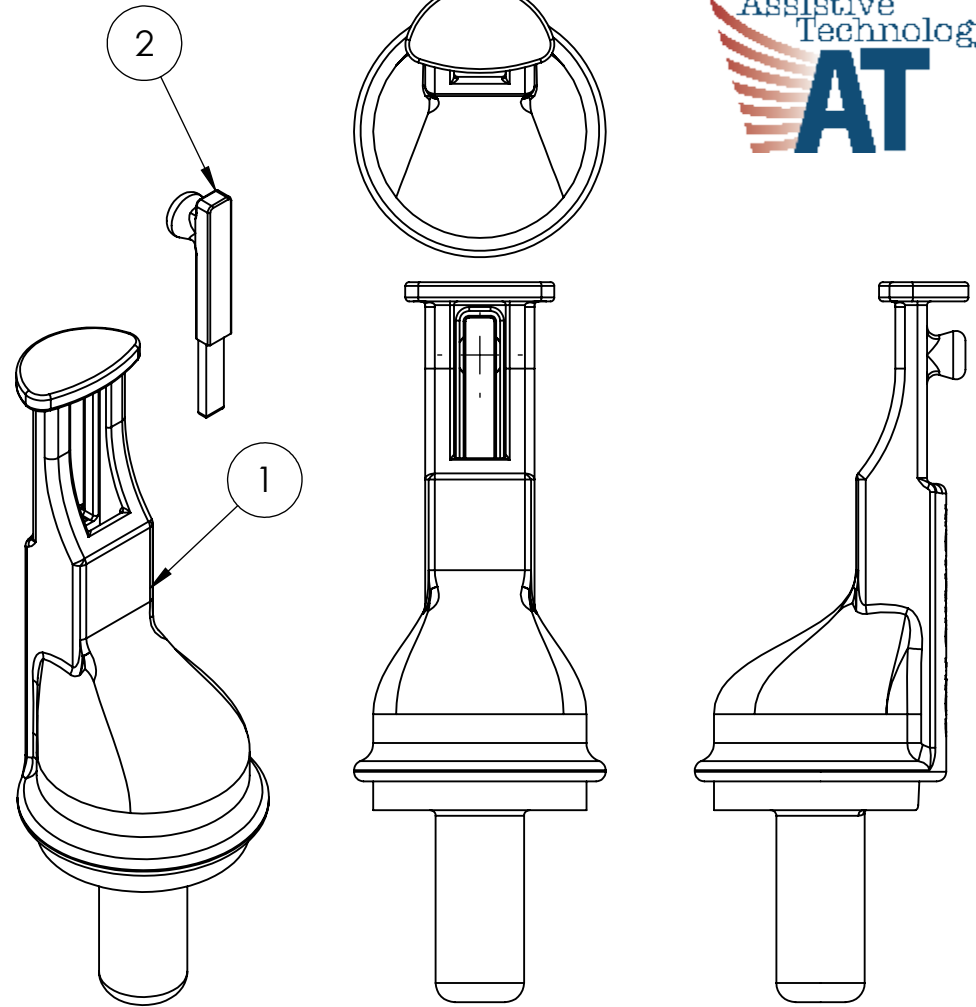
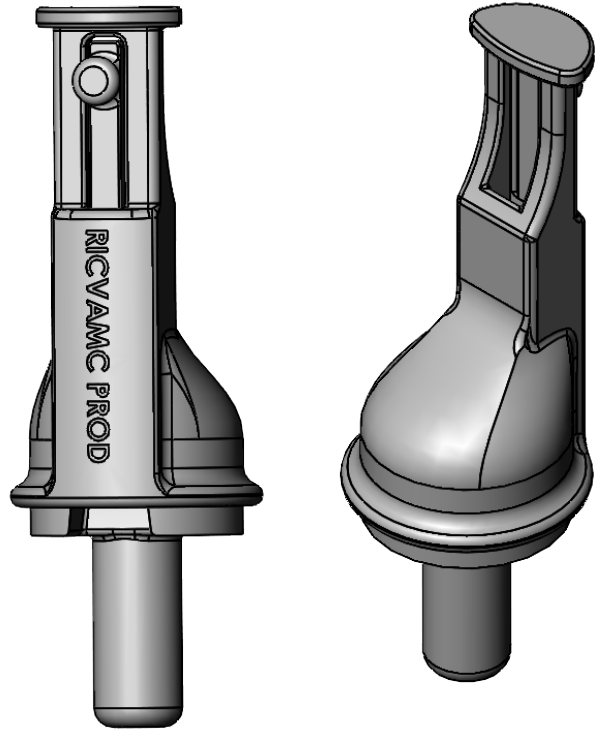
2

1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	prodigy test strip funnel.STL	Main funnel body	1
2	prodigy test strip lever.STL	Flexible strip removal lever	1



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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES

SUGGESTED MATERIAL/PRINTER

Nylon PA6 with chopped carbon fiber filament

POST-PROCESSING INSTRUCTIONS

Rip off support structures; Refine rough patches with wet 120 grit sandpaper

PRINT ON A 8.5" X 11" SHEET
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	BB & SH	6/13/2016
CHECKED	JTM	8/24/2023

COMMENTS:
For use with Prodigy brand

Central Virginia VA Health Care System (CVHCS)

TITLE:

GLUCOSE TEST STRIP FUNNEL

SIZE	FILE NAME:	REV
A	GLUCOSE TEST STRIP FUNNEL DRAWING 7B	v1

SCALE: 1:1

SHEET 1 OF 2

2

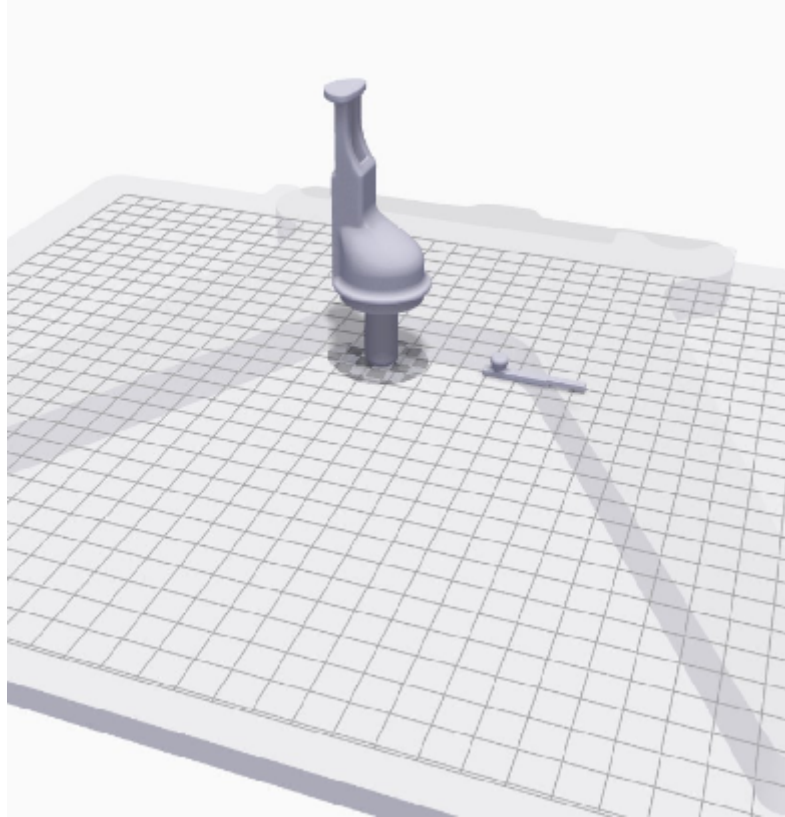
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ORIENTATION RECOMMENDATION FOR PRINTING



PRODIGY TEST STRIP FUNNEL: Print vertically
 PRODIGY TEST STRIP LEVER: Print flat



RECOMMENDED PRINTER SETTINGS

- Material: Nylon PA6 with chopped carbon fiber filament
- Layer height: 0.125mm
- Nozzle diameter: 0.4mm
- Infill type: Triangular
- Infill density: 37%
- Wall layers: 2
- Ceiling and floor layers: 4

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SHEET 2 OF 2