Culicoides Trap- Print Instructions

1. Download the File

- Open the email containing the .3mf attachment.
- Download the file to your computer (e.g., Desktop or Downloads folder).
- Do **not** open it in a standard document viewer—it requires slicing software.

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2. Install a Slicer Program

If you don't already have one, install a 3D printing slicer. Common options:

- PrusaSlicer
- Bambu Studio (for Bambu printers)

Note: Install the slicer that is best for your 3D printer

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3. Open the .3MF File

- Launch your slicer software.
- Click **File → Open** (or drag and drop the file into the program).
- The model should appear on the virtual print bed.

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4. Check Model Settings (.3mf file often includes preset settings, but verify:)

- **Scale**: Ensure the model is the correct size.
- **Orientation**: Make sure it's positioned properly on the build plate.
- **Layer Height / Quality**: Adjust if necessary (e.g., 0.2 mm for standard quality).

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5. Select Printer and Material

- Choose your specific 3D printer model in the slicer.
- Select the filament type (e.g., PLA, PETG, ABS).
- Confirm nozzle size (0.4 mm).

6. Slice the Model

- Click **Slice** (or equivalent).
- The software will generate a printable file (usually .gcode).
- Review the preview to check:
  - Layer paths
  - Supports
  - Estimated print time

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7. Transfer to Printer

- Save/export the .gcode file.
- Transfer it to your printer via:
  - SD card / USB drive
  - Wi-Fi (if supported)

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8. Prepare the Printer

- Level the print bed (if required).
- Load filament.
- Preheat the printer to the correct temperature for your material.

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9. Start Printing

- Select the file on your printer.
- Begin the print.
- Watch the first few layers to ensure proper adhesion.

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10. Post-Processing

- Remove the print once cooled.
- Carefully remove supports if present.
- Sand or finish as needed.

⚠️ Tips & Troubleshooting

- If the file doesn't load: ensure your slicer supports .3mf.
- If print fails early: check bed leveling and adhesion.
- If quality is poor: adjust layer height or temperature settings.

Culicoides Trap-Build Instructions

1. Remove Prints

- Open the email containing the .3mf attachment.
- Verify that all parts are printed
- Follow the guidelines based on the Design Drawing provided

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2. Open Design Drawing file

- Have all parts laid out according the image provided in the drawing file
- Ensure the orientation of the body is correct before attaching lid

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3. Attach funnel cone (#3) to lid (#4)

- Attach bottom funnel cone (3) to lid (4)
- Attach lid (4) to body (2)

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4. Lid to Body

- **Orientation**: Make sure it's positioned properly
- Attach funnel (3) to lids (4) and then to body (2)
- Attach top lid (1) to body (2)

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5. Use Mesh Material for filter

- Top lid has opening for mesh insert (optional)
- 3D printed mesh is optional, separate file will be provided and attached to the funnel design

  Note: mosquitoes have been able to pass through 3D printed mesh screen with a gap of (.14 inches)

  Recommended: use cloth/fine mesh material. Cut circle/square that covers the 5" diameter of lid