



ChooChoo - A Lightweight/Support Free 4 Tone Train Whistle v3.1



3DVJ Models

[VIEW IN BROWSER](#)

updated 24. 6. 2024 | published 24. 6. 2024

Summary

For all of those Train Lovers, 3D Print yourself a Four Tone Train Whistle. No supports required and is only two parts!



7.00 hrs



1 pcs



0.16 mm



0.40 mm



PLA



45 g



Crealty
Ender 3 Pro

[Hobby & Makers](#) > [Music](#)

Tags: [whistle](#) [printinplace](#) [lightweight](#) [train](#) [trainset](#)
[nosupport](#) [trainwhistle](#) [choochoo](#)

Four-tone train whistle here! This model is composed of two simple parts and are both support free. Included is also a stand to show off your whistle, and you guessed it, it holds both versions!

****Stand Update v3.1****

- Split stands into two parts to reduce print time. (Fit Tested and are Functional!)

****Scaled Models Update v3****

As mentioned by @Hobo4ssassin in comments, depending on the scale of this model, you can achieve different tones!

- Pre-scaled models have been added and are labeled accordingly.

- Sizes are as follows:

100% (Original Files, Loud/High Pitch) - Easy to blow and great size for kids, keep in mind, this one is loud! You have been warned.

EDIT - 6/18/23:

Decibel Meter Results in a room about a meter away blowing hard: 122.9 dB (thanks! @Felipe). This is about as loud as a siren on an ambulance or police car!

127% (Traditional Sound) - Not hard but not easy to blow.

200% (Deep Low Tone) - Print if you have massive lungs! Note that this size does take a lot of air which may be difficult to play!

- Magnet version still takes 6 x 3mm magnets regardless of size chosen!

- Added pre-scaled whistle stands.

- Once again, no supports required for new models.

****MagnetBlowPieceEdition Update v2****

- Added new option for attaching the blow piece using 6 x 3mm magnets.

- Depending on your printers accuracy, it is possible you may need to glue the magnets in place. When doing this, be sure to **line the magnets up correctly** so they will not repel each other! That being said, assembly is very straight forward.

- New models remain support free! They also follow the same printing guidelines!

- Sorted files into folders for your convenience.

Video Below is a sound test of the 100% Scale Model!

***Prepare yourself for a surprise this whistle is very loud!**

I have always enjoyed those wooden train whistle toys found at hobbyist shops, so I built my own trying to stick to the general design of it! I also optimized the whistle for 3D printing so you do not need supports and even have the option to print a reduced material version if your low on filament. I have made the reeds print-in-place so you will not have to worry about assembly of these parts!

The blow_piece_cover is simply pressed in place, although you may have to give the small squares a light pinch with pliers if you find your cover too loose or a small amount of glue will be perfect!

Print Instructions

It may be possible that you print your whistle out and it does not work. Don't worry! Be sure to stick to the print settings here and you will be whistling away in no time!

Printed on a Bambu Lab P1P with stock settings

- Nozzle: 0.4mm
- Layer height: 0.16mm
- First Layer height: 0.2mm
- Perimeters: 2 minimum (3 is ideal)
- Infill: 20% grid pattern
- Extruder temp: 220C
- Bed temp: 65C

Also don't forget, no supports are needed!

Pre-sliced Bambu Lab P1P file available.

Feel free to share your prints with me and others. Happy printing!

Model files

 **ChooChoo - Original SnapFit Edition (Pictured)** 10 files

 **blow_piece_cover.stl**
☐ 3.6g Cover for both non-scaled versions (can be printed at 0.2mm layer height) *Pictured



whitsle_body_reduced_material.stl

☐ 42g LightWeight Version (0.16mm layer height) *Pictured



whitsle_body.stl

☐ 50g Original (0.16mm layer height)

reduced_material_version_100gcode.3mf

☐ Pre-Sliced Bambu Lab P1P Gcode (3hrs) - Bambu Matte PLA with Textured PEI Sheet



blow_piece_127.stl

☐ 7g Cover for both 127% versions (can be printed at 0.2mm layer height)



whitsle_body_reduced_material_127.stl

☐ 77g LightWeight Version (0.16mm layer height)



whitsle_body_127.stl

☐ 91g Original (0.16mm layer height)



blow_piece_200.stl

☐ 21.5g Cover for both 200% versions (can be printed at 0.2mm layer height)



whitsle_body_reduced_material_200.stl

☐ 228g LightWeight Version (0.16mm layer height)



whitsle_body_200.stl

☐ 277g Original (0.16mm layer height)





blow_piece_cover_magnet_edition.stl

☐ 3.5g Works for both non-scaled Magnet Edition Whistles (0.2mm layer height)



whistle_body_reduced_material_magnet_edition.stl

☐ 42g LightWeight Version (0.16mm layer height)



whistle_body_magnet_edition.stl

☐ 50g Original (0.16mm layer height)



blow_piece_magnet_127.stl

☐ 7g Cover for both 127% magnet versions (can be printed at 0.2mm layer height)



whistle_body_reduced_material_magnet_127.stl

☐ 77g LightWeight Version (0.16mm layer height)



whistle_body_magnet_127.stl

☐ 91g Original (0.16mm layer height)



blow_piece_magnet_200.stl

☐ 21g Cover for both 200% magnet versions (can be printed at 0.2mm layer height)



whistle_body_reduced_material_magnet_200.stl

☐ 228g LightWeight Version (0.16mm layer height)



whistle_body_magnet_200.stl

☐ 277g Original (0.16mm layer height)



ChooChoo - Stands

9 files



whistle_stand.stl

☐ 15g Settings are your choice. Works for all non-scaled Whistle Editions! *Pictured



whistle_stand_127.stl

☐ 27g Settings are your choice. Works for all 127% Whistle Editions!



whistle_stand_200.stl

☐ 85g Settings are your choice. Works for all 200% Whistle Editions!



whistle_stand_bottom.stl

☐ 10g Settings are your choice. Works for all non-scaled Whistle Editions!



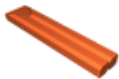
whistle_stand_support.stl

☐ 7g Settings are your choice. Works for all non-scaled Whistle Editions!



whistle_stand_bottom_127.stl

☐ 17g Settings are your choice. Works for all 127% Whistle Editions!



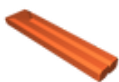
whistle_stand_support_127.stl

☐ 12g Settings are your choice. Works for all 127% Whistle Editions!



whistle_stand_bottom_200.stl

☐ 51g Settings are your choice. Works for all 200% Whistle Editions!



whistle_stand_support_200.stl

☐ 37g Settings are your choice. Works for all 200% Whistle Editions!

Print files



ce3pro_blow_piece_with_reduced_whistle.gcode

⚙️ PLA 📏 0.40 mm ≡ 0.16 mm ⌚ 7.00 hrs ⚖️ 45 g

📄 Gcode for Ender 3 Pro Printers (Time should be accurate for similar style printers) WhistleONLY

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](#)



Attribution—Noncommercial—Share Alike

-
- ✖ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✖ | Commercial Use
 - ✖ | Free Cultural Works
 - ✖ | Meets Open Definition