

Meaker Mk15ish (Mk15 remix)

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updated 12. 4. 2024 | published 12. 4. 2024

Summary

A modified version of the Meaker Mk15. A collection of changes to improve usability, reliability and compatibility.

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Original concept design by Markmarx1066 and modular redesign by Meaker IV. See 'differences' section for change details. What started as just minor changes to a few parts eventually ended up as a collection of modifications more or less amounting to a remix even though it appears similar to the original Mk15 at first glance. This is basically a 'refinement' remix of an already solid design. I printed with Elegoo PETG and the model has been tweaked to be reasonably dimensionally accurate without any shrinkage settings enabled. Most printed holes are intentionally on the smaller side for direct threading with M3 fasteners. Holes on cover parts can be drilled with a 3mm bit so threads only engage frame parts. There is only one 45mm through bolt requiring a nut on the other side on the bottommost fastener of the FWC frame. All original assembly notes and bill of materials documented by Meaker IV still apply. For my build I ended up using Meishel 2.0 130 2s motors turning Worker 425 Flywheels. It's running around 140-150fps on 2s lipo. For fastening the micro-switch I positioned it where it needed to be for the rev trigger to work perfectly and just drilled a shallow 2.5mm hole in the frame using the top switch

hole as a guide rather than gluing it in place. It's not an ideal 'engineering' solution but works well enough. Other than that no additional fasteners are required vs the original design except to say that for holes that pass all the way through I opted to use shorter M3 fasteners on either side vs longer through bolts with nuts on one side. I just felt that socket/button head screws all around gave it a cleaner look and are less likely to loosen over time.

Note that .stl files are oriented as saved from the CAD model, so they're not necessarily oriented as they should be for printing; however, for almost all parts it's obvious which face should touch the build plate. The barrel lug should be printed front face down as the back side has a slight curve. (On my print the FWC frame forward face did not seem perfectly straight.) For the stock adapter I printed it with the notches facing up so as to have them come out as clean as possible. Only 2 tiny supports are needed under the mounting arms in this orientation. The pic rail should print successfully with just bridging. Having to remove supports between every set of notches would be painful, at least with PETG.

Updated 4/10/24

Fixed R Grip bottom fillet missing.

Added optional parts:

1. Modified FWC with barrel attachment mount.
2. Friction fit centering barrel attachment that improves accuracy at a minimal cost to FPS. (Barrel is not rifled since it engages while the dart is still in contact with the flywheels.)

This remix is based on



NERF Meaker Mk 15 "Streaker"

by Meaker VI

Model files



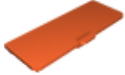
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battery-cover-l.stl



stock-adapter.stl



battery-snap-cover-l.stl



magwell-plate.stl



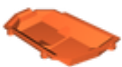
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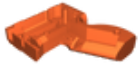
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grip-cover.stl



motor-cover-short.stl



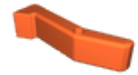
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l-grip.stl



pic-rail.stl



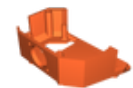
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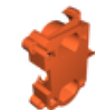
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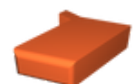
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fwc-frame.stl



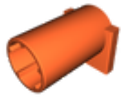
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rev-trigger.stl



fwc-frame-cover.stl



mk15ish_ramped-centering-fwc-attachment.stl



stryfe_rs-cage-42mm_barrel-attachment.stl



r-grip.stl

mk15ish_remix_20240410.step



worker-barrel-lug_flat.stl



worker-barrel-lug_05mm-taper.stl

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