

Instant Noodles - README



Looking for a [build kit](#)? The Middleton Made SHOP has build kits for sale right now!
Any links may be through an affiliate that won't cost you more, but may provide me a small financial kickback.

Links:

- Website / Shop
<https://www.middletonmade.com/>
- Defcad:
<https://defcad.com/users/MiddletonMade3D/>
- Odysee:
<https://odysee.com/@MiddletonMade:1>
- Paypal:
<https://www.paypal.com/paypalme/middletonmade3d>
- IG:
<https://www.instagram.com/middletonmade/>
- FB:
<https://www.facebook.com/MiddletonMade>
- YT:
<https://www.youtube.com/c/middletonmade3>
- Rumble: <https://rumble.com/c/c-2441934>
- **(Join my BETAs!)** Playeur:
<https://playeur.com/c/middletonmade>

Legal

I'm not a lawyer. You are responsible for your own safety and compliance with the law.

Disclaimer

This is not an entry-level project. You **MUST** have your printer and materials dialed in and calibrated or you will run into clearance issues with critical geometry.

Printing

For print orientation, please see the separate file named *"SuggestedPrintOrientation"*

Filament Type - PLA+, CF Nylon

For any parts that receive stress, do **not** use metallic, silk, glow-in-the-dark, fluorescent, or any other special type of filament. Stick with regular, single-color materials. Avoid highly abrasive filaments like glass or wood-filled as the parts need to be able to slide against each other with relative ease.

I generally recommend [Polymaker](#), [Duramic](#), [QIDI](#), and [COEX](#).

Printing Instructions

The assem is exported as a .3mf for a higher-quality printed file. In Cura, you can ungroup the parts in your slicer by right-clicking and clicking "ungroup" or "Split>to Objects".

Generally, all parts can be printed with 12 walls, 60-90% cubic infill, 6 top and bottom layers, a 6mm brim, and standard supports. All of the components should be printed at .14mm layer height.

STEP files for those looking to complete a remix and an STL of the grip section are included for texturing.

Assembly

Want the essentials all in one spot? Visit the [Middleton Made shop](#).

Printed Parts:

- Grip Body
- Main Body
- Locking Pin
- Selector Switch

Pre-manufactured Parts:

- AR15 Grip Screw
- AR15 Magazine Catch Spring
- M3 Threaded Insert
- M4 Threaded Insert
- M3x20mm Screw
- M4x45-50mm Screw

Tools

- [Razorblade](#)
- [Snipping/Cutting Tool](#)
- [Small Flat Files](#)
- [Soldering Iron](#) / [Heat Set Insert Tool](#)
- [Allen Key](#)

Step-by-Step

1. With all parts printed, clean up any support material, droops, or defects in the prints.
 - a. It's especially important to have layer lines smoothed out on the **Main Body** and inside of the **Grip Body** so they interface well and don't have too much friction between the two parts. A flat file works great to get rid of layer lines and deformations in the flat surfaces around the selector hole.

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2. Grab the **Main Body** and install the **M3 Heat Set Insert** to the left side of the part. Run the screw through the opposite side to ensure the path hasn't become obstructed by melted plastic and clear the obstruction if so.
 3. **Take the Locking Pin** and install the **M4 Heat Set Insert** with high caution to not deform it from excess heat/pressure.
 4. Flip your lower receiver upside down and insert your safety detent.
 - a. Insert the detent spring into the **Main Body** and mate the part to the lower receiver with the spring in line with the detent.
 - b. Secure with the **AR15 Grip Screw** (no washer). Do NOT overtighten. Use a dot of thread locker if you are unsure about your grip coming loose.
 5. Take the **Grip Body** and insert the **AR15 Magazine Catch Spring** into the hole from the top, followed by the **Locking Pin** with the open side down.
 6. Place the **Selector Switch** in its pocket and secure it by inserting the **M4x45-50mm Screw** in and tightening it into the **Locking Pin**.
 - a. A proper tightness will have the rod protruding while locked and slightly below flush when unlocked.
 7. Finally, slide the **Grip Body** on to the **Main Body** and secure with the **M3x20mm Screw**.
 - a. Leave the head of the screw slightly off of the surface of the **Grip Body** finger extension. Friction here will cause the mechanism to bind.
 8. Congrats, you just made yourself a pack of **Instant Noodles!**

Manual of Arms

Operations

- With the weapon on safe, load your magazine into the weapon and charge it.
- When pointed down range and in a safe direction, twist the selector so it's in its tensioned/elevated state.
- When you're ready to fire, place the weapon on FIRE and place your trigger finger on the trigger ledge. Use caution to avoid pulling the trigger.
- With your finger on the trigger and your shooting side elbow locked to your body, slowly and gingerly pull the weapon forward. This will cause the weapon to fire and recoil rearward, resetting the trigger. If your forward grip is too tight on the weapon, it may not recoil far enough to reset the trigger. There's a sweet spot you'll have to find to have it run smoothly.
- When you plan to swap your magazine or take a break from shooting, place the grip back on single-shot mode to avoid accidents caused by the grip body slipping.