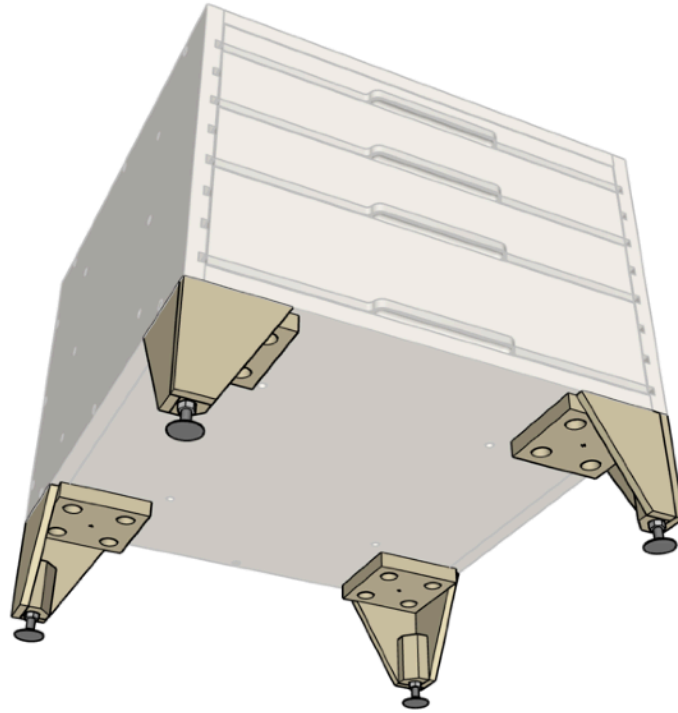


Leveling Foot Plans

Part of the Shop Cabinet System



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Materials list

For the Feet:

- 18mm or 23/32" hardwood plywood
- 9mm or 11/32" hardwood plywood
- Wood glue
- 5-minute epoxy
- 25mm or 1" brad nails (optional)
- Coupling nuts (M8, M10, 5/16", or 3/8")
- Leveling feet (M8, M10, 5/16", or 3/8")
- Protective finish (I used wipe-on poly)

For mounting to the cabinets:

- M6 x 25mm or 1/4 x 1" bolts (4 per foot)
- Hardened washers to fit bolts (8 per foot)
- Locknuts to fit bolts (4 per foot)

Tools list

- Table saw
- Router
- Drill press or hand drill with guide
- Brad nailer (optional)
- 2mm or 1/16" drill bit (+/-)
- 9mm or 3/8" drill bit or forstner bit
- 18-20mm or 3/4" forstner bit
- Drill bit, the same diameter as the coupling nut
- Flush-trimming router bit
- Roundover router bit (2-4mm or 1/16 - 5/32" radius)

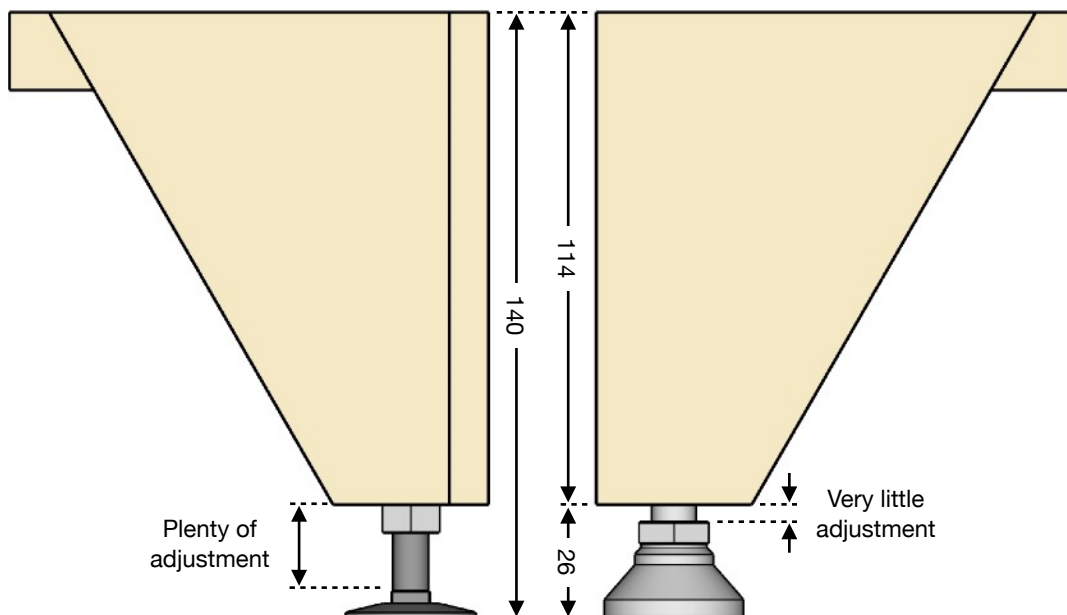
Some important notes

1. Other parts of this system: These Feet are for use with my Modular Shop Cabinet System. You can learn more about the Cabinet System and get plans for other Modules here: <http://jerswoodshop.com/cabinet-system/>
2. It is assumed that you will build and use these Leveling Feet in a safe manner, therefore, few safety precautions are set forth in these plans. Build and use at your own risk. I am not responsible for any injuries caused by the manufacture and use of Cabinet System or these Feet.
3. The templates on pages 3-6 may be printed and used as a 1:1 templates — just be sure to confirm they printed at the correct scale before using them.
4. If you haven't seen the YouTube video in which I build these Feet, please watch it by going to <http://jerswoodshop.com/cabinet-feet/> and clicking the “watch build video” button.
5. If you have questions about the build, feel free to contact me at jerswoodshop@gmail.com. I welcome constructive criticism & feedback on my design and plans.

Choosing levelers

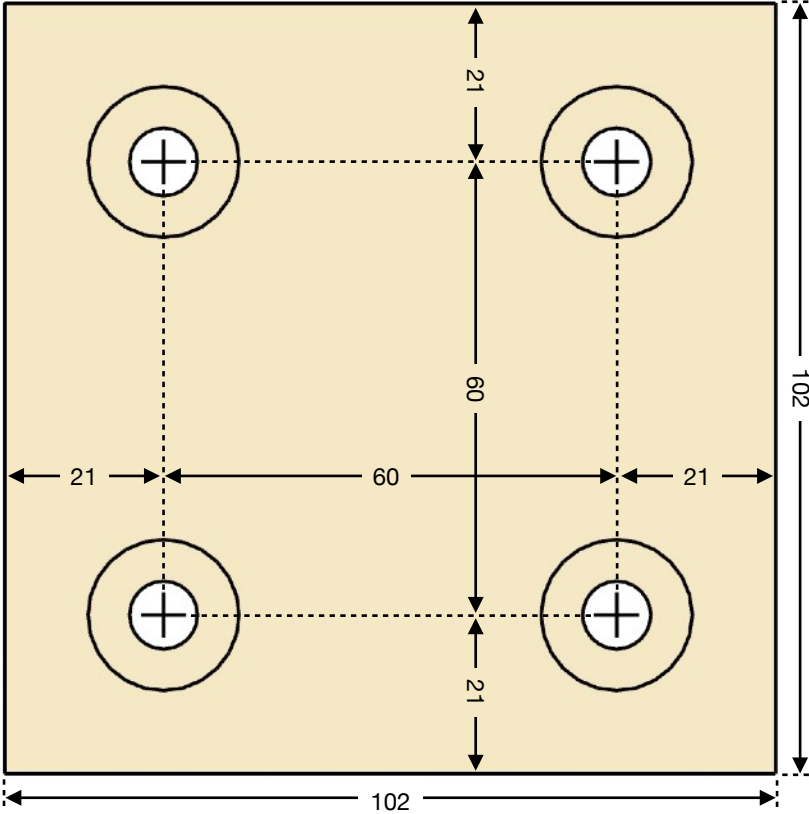
I recommend making all Feet for the Modular Cabinet System the same height, unless you have a specific need for a different height. This way, all of your work surfaces can end up at the same height, regardless of which Feet you're using. Also, if you need to change the Feet on a Cabinet in the future, doing so will not change its height. The intended height of all Feet for the Modular Cabinet System is 140mm.

Since the risers are 114mm tall (equal to the vertical hole spacing in the Cabinets), this leaves 26mm for the leveler. It's best to use a leveler that has a compact foot, to maximize your vertical adjustment. I used elevator bolts as levelers. Although they don't work quite as well, they're cheap and easy to find, and offer the best range of adjustment. If you do use a traditional leveler, try to find one with a thin foot.



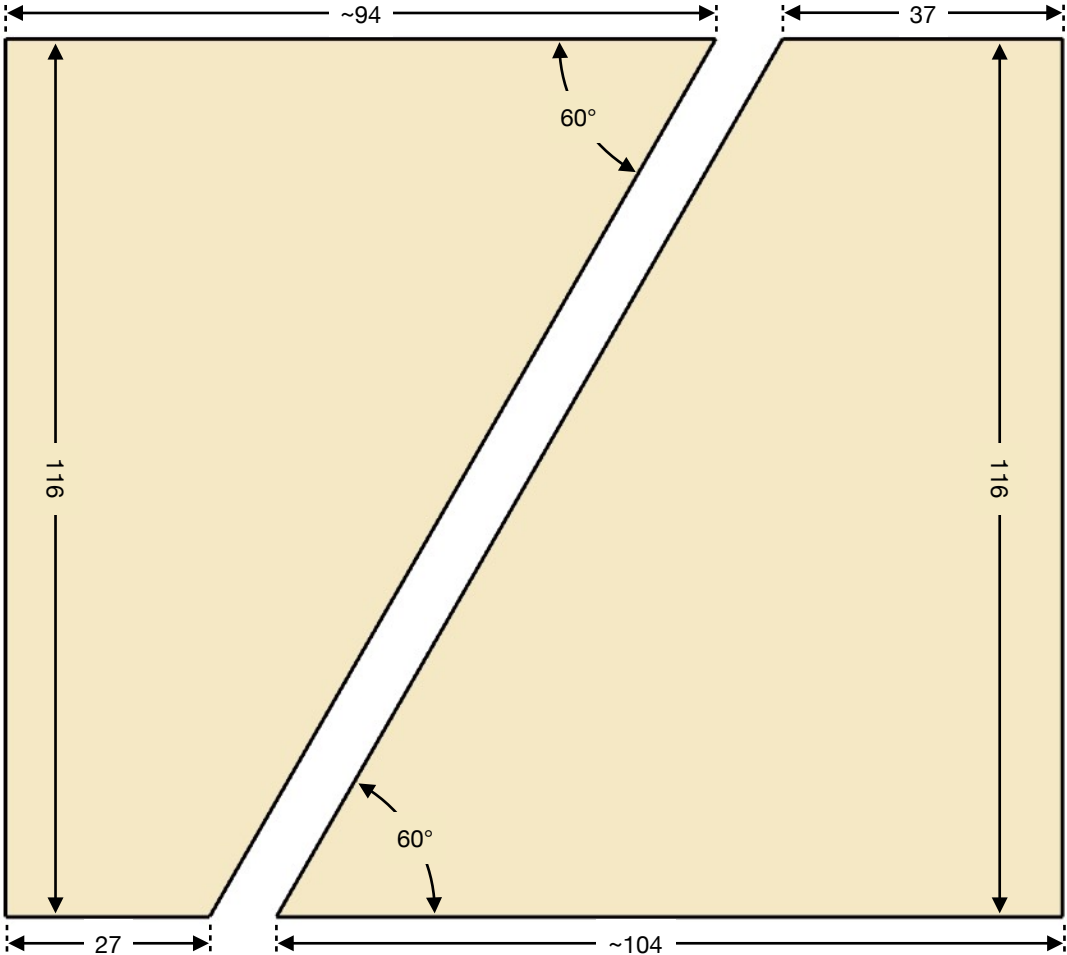
Make the top

Cut the top of your Leveling Foot from 18mm plywood, based on the drawing below. Drill the four mounting holes using the procedure from page 11 of the Cabinet plans.



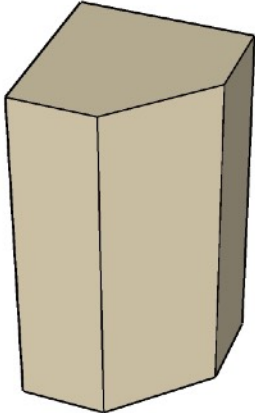
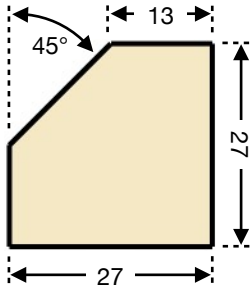
Make the sides

Cut the sides of your Leveling Foot from 9mm plywood, based on the drawings below. Note that the two are not identical — the one on the right is 10mm wider, since it will overlap the narrower one when assembled. Both templates are 2mm taller than the final foot, so you can trim it to final height after assembly.



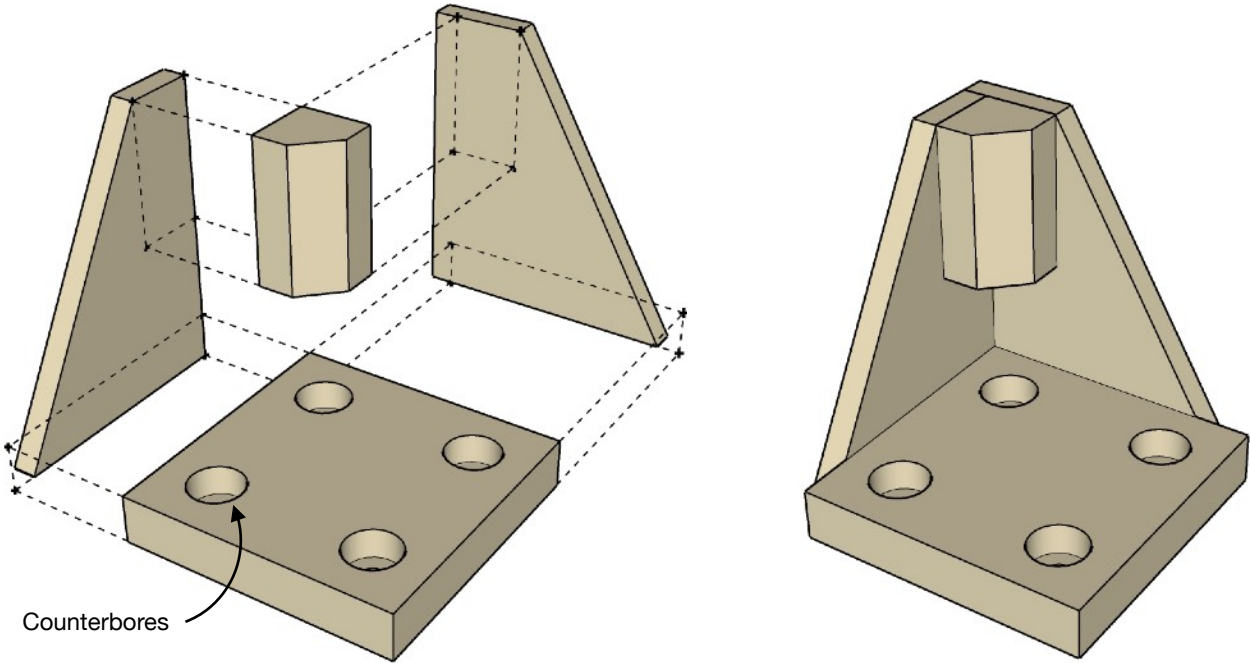
Make the corner reinforcement

The bottom of the leg will be reinforced with a solid 27mm square block, 55mm long, with one corner chamfered for aesthetics. I recommend making this from solid hardwood or from hardwood plywood.



Assemble

Assemble with good-quality wood glue, and use brad nails, small screws, or clamps to ensure a strong bond. Be sure that you aren't putting the top upside down — the counterbores need to face the side with the leg. After assembly, trim off the bottom of the leg to bring the overall height to 114mm. Apply a protective finish if desired.



Install the leveler

Measure the width of your coupling nut across its corners, and select a drill approximately that size. I recommend drilling a test hole to be sure the coupling nut will fit. Once you've chosen a drill size, drill a hole into the end of the leg at the location shown below, to a depth equal to the length of your coupling nut. The nut should bottom out just when it is flush with the end of the leg.

Glue the coupling nut into the hole using 5-minute epoxy.

