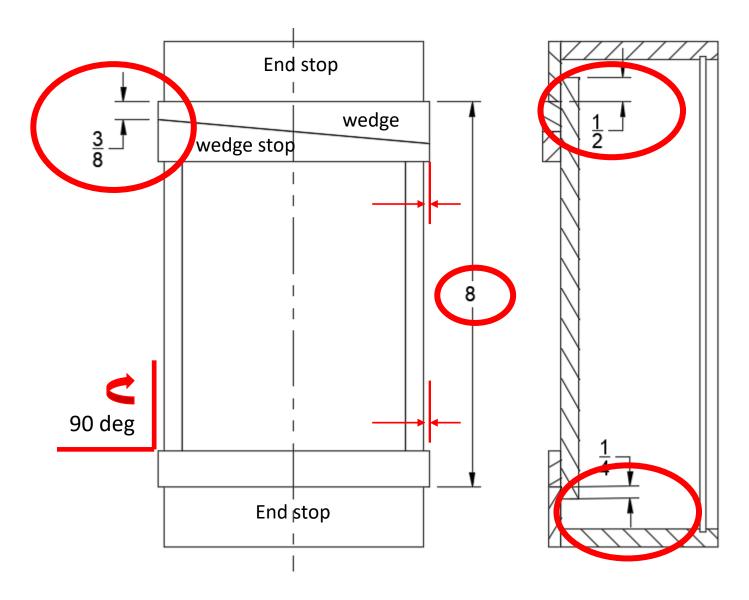
Japanese Toolbox build

October 2024



- Important dimensions:
 - Squareness
 - Lid interlock overlap
- Box sides:
 - Minimize trimming dovetails
 - Sizing dados for bottom of box
- Box end stops:
 - Start oversize, trim later
 - Fixture to get parts square and to specific spacing
- Wedge:
 - Getting correct angle on key and stop
 - Wedge and stop glue up
 - Aligning wedge with jigs

• Important dimensional relationships:

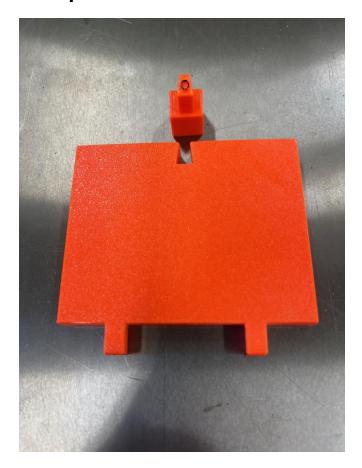


• Inexpensive digital gauge helps to get targeted part thickness



Cutting dovetails

• Custom gauges allow faster setup of dovetail fixture with fewer iterations in actual side pieces.



• Tails are cut first. Fixture makes them symmetric and evenly spaced.



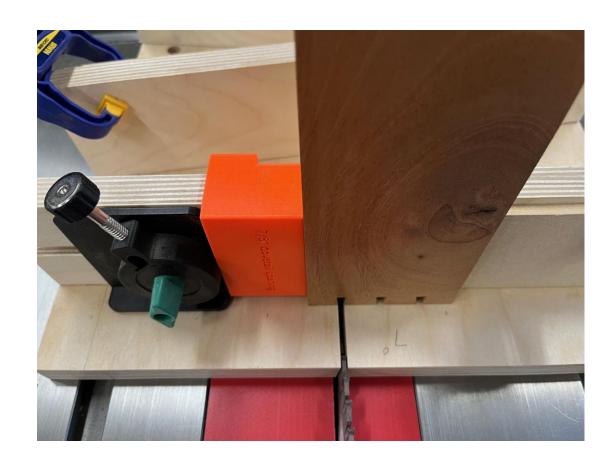


- Use spacer to cut center clearance first.
- Check with gauge and correct as needed with eccentric adjuster.



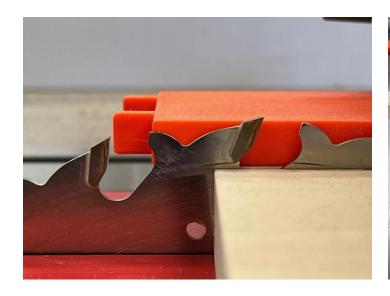


• Part is flipped front to back and top to bottom, creating symmetry.

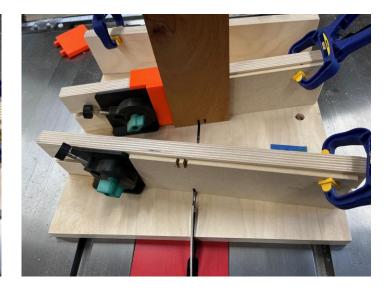




- Pins are cut next.
- Set length of pin first, then cut center pin to check size
- One cut on each angled fence.







• Measuring pin, adjust fixture as needed:



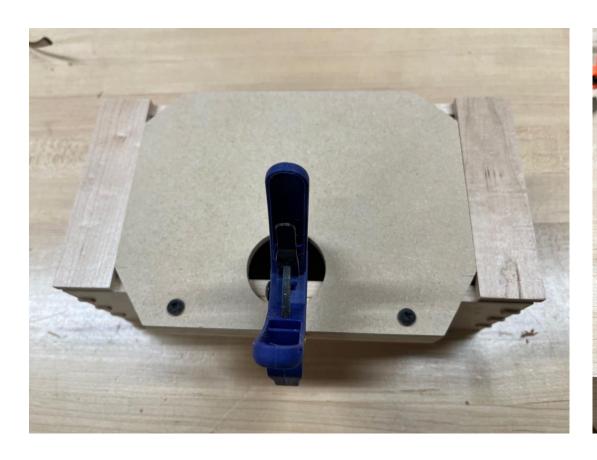


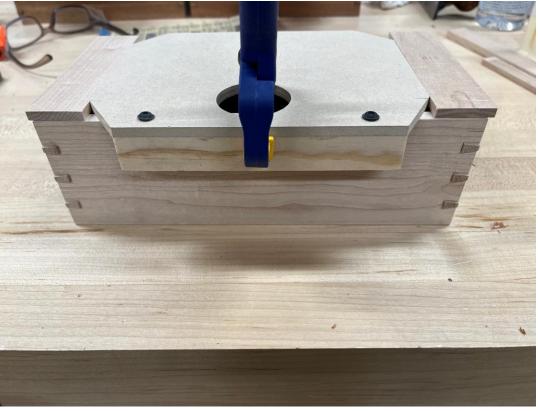
- Cut stopped dado for bottom of box.
- Plywood thickness doesn't match router bit take 2 passes, moving fence between cuts with shim stock:



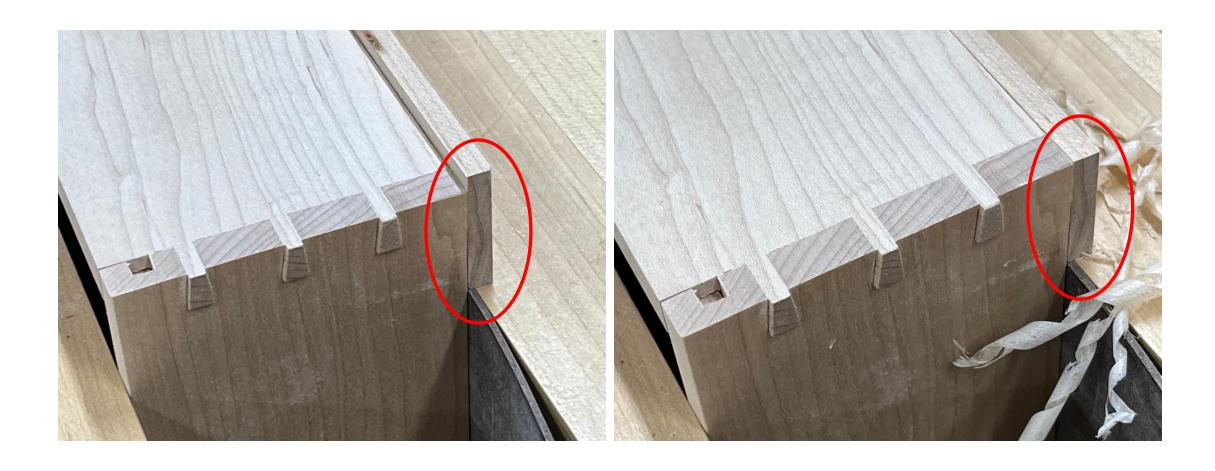


• Set top end stop distance and squareness





• Trim flush to end of box – allows for tolerance



• Angle on wedge and wedge stop need to match.



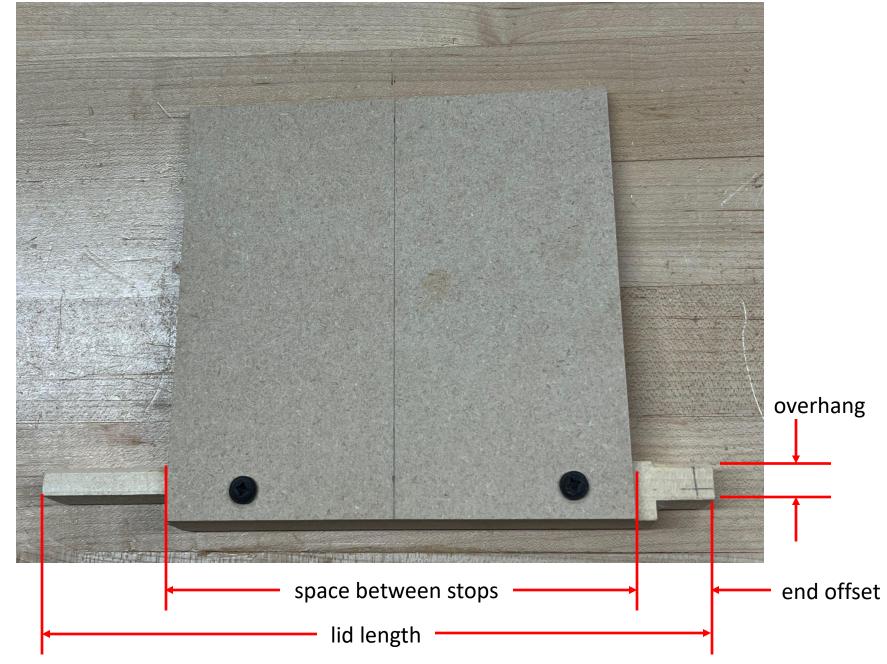
These edges need to be parallel and at a specific distance apart

- Fixture for routing wedge and wedge stop.
- Center part has parallel sides and is set to correct angle.
- Wedge and wedge stop are pattern routed on opposite sides of fixture.





• Jig for alignment of parts on lid:





• With spacing correct, wedge engagement still needs to be set

