

Turning Instructions for Mason Jar Lid Projects

#PKMJRXX

Required Accessories:

- 71MM Forstner Bit #FB71MM
- Chuck Options
 - Jam chuck #CXC71MM (Dia. A)
 - Lathe chuck with (alligator jaws recommended).
- #CXC4 Jam Chuck (modified per diagram B)
- Mandrel saver or 60 degree live center (to back up the blank)
- Wood blank required: 1" x 3 1/2" x 3 1/2" min size
Note: Coffee grinder project requires 1 1/4" thick wood
- 2 part mid-cure Epoxy glue #PKGLUE2

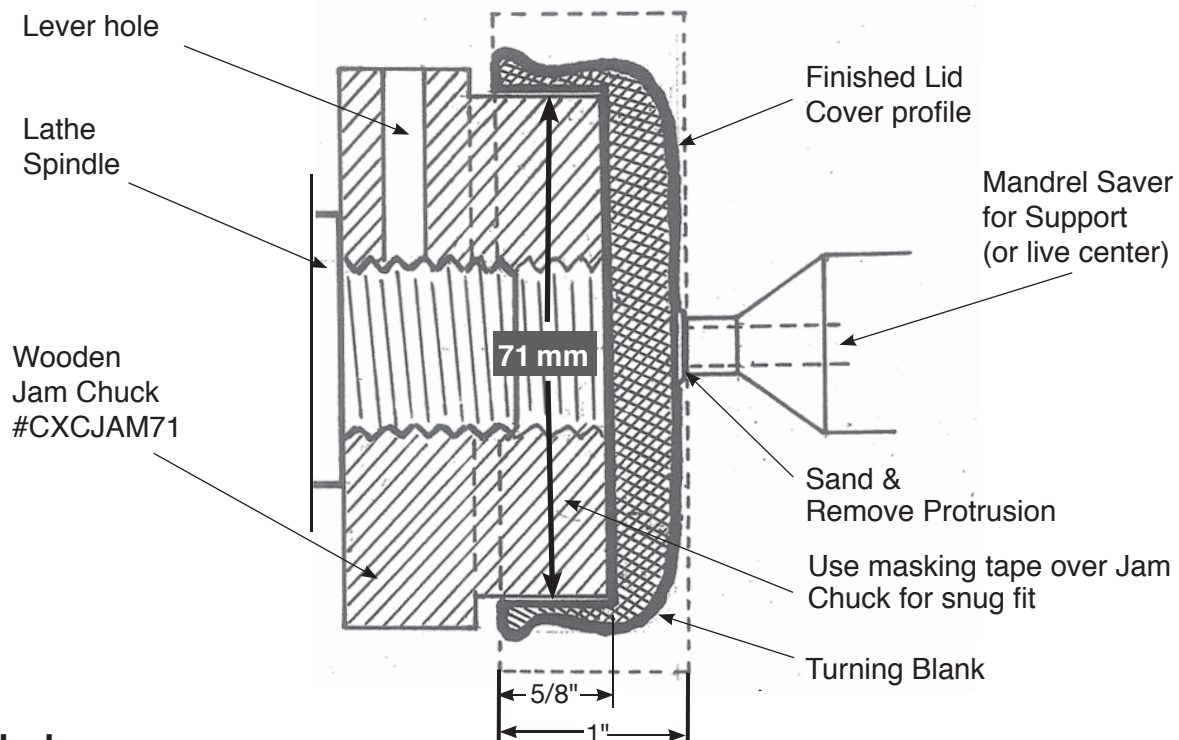


These instructions will provide direction to turn Mason Jar Lids for the projects shown above. Reference the individual kit instructions for final assembly.

Preparing the wood for turning

- Mark the center over the outer 3 1/2" X 3 1/2" surface of the blank.
- Drill a 71 MM hole, 5/8" deep trim the corners round.
(*or drill a 2 3/4" hole* = 69.9mm and "open up" 71mm with a lathe chisel).

DIAGRAM A / TURNING THE BLANK



Turning the Blank:

- Mount the chuck over the spindle of the lathe.
- Mount the blank, recess end in first over the chuck.
- Slide the tailstock until the mandrel saver pushes against the wood. Lock in place.
- Turn the Blank to a lid cover profile. Turn around the mandrel saver as close as possible. Sand and remove the protrusion on the lid.
- Sand and finish the project. Best is to use utility oil as a finish.
- Drill or countersink a hole as reference for this specific project. (refer to project instructions)
- Remove the lid cover from the jam chuck.
- Use 2-part epoxy glue. Spread internally, affix the metal jar cap inside the turned blank, let dry.
- The cover is ready to use.

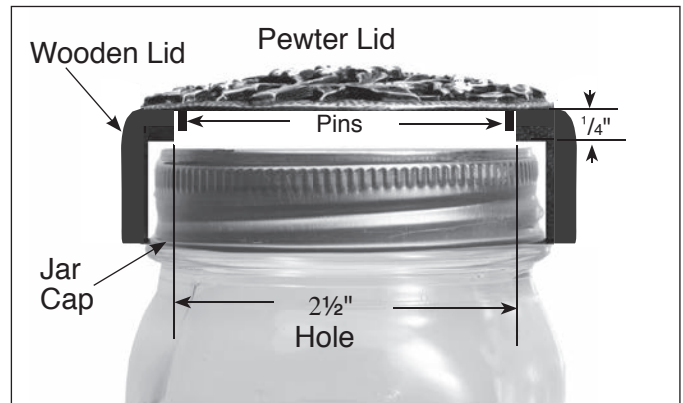
Note: Refer to Mason Lid Jar Turning instructions to make wooden lid.

Pewter Lid Jar Project

#PKPLID

The lids o.d. vary in size, check each size before turning press.

- Use Item #PKLID (Set of 4)
- Sand and finish the lid cover
- Turn a 2 1/2" hole through the top
- Enlarge the hole to accommodate 3 centering pins on the selected lid
- Lid should stay secure in the recess. (Glue if necessary)
- Glue the jar cap into the cover.

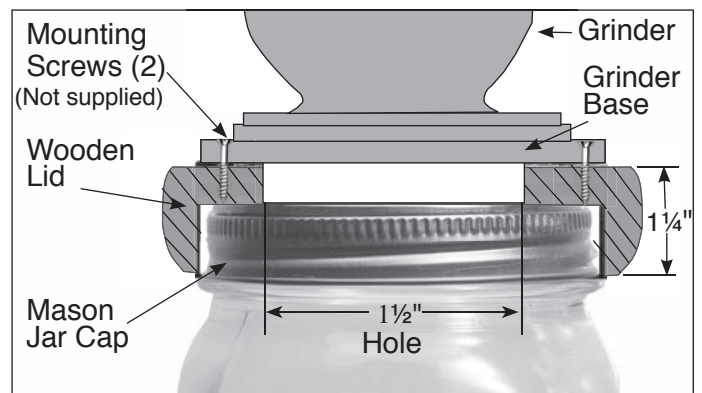


Mason Jar Coffee Grinder Project

#PKGRIND3

Project requires min. wood blank of 1 1/4" thick require 3/4" long, wood mounting screws.

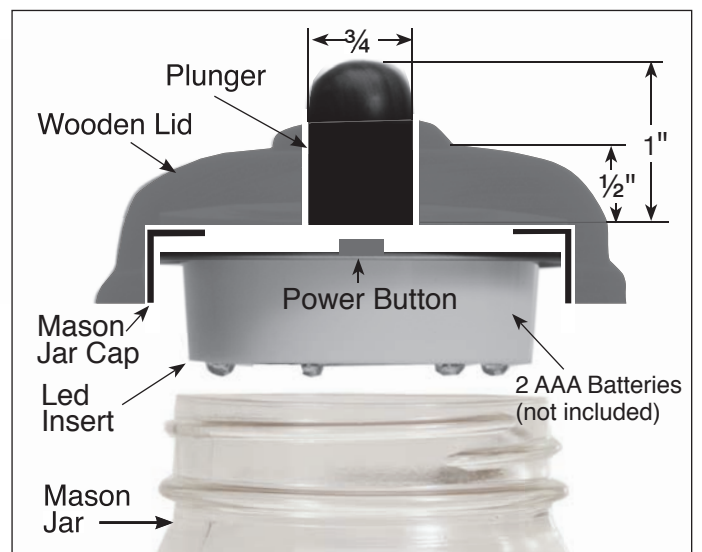
- Use item #PKGRIND3.
- Drill with 1 1/2" Forstner bit #FB150.
- Sand and finish the lid cover.
- Drill a 1-1/2" hole through the top.
- Mark (2) mounting holes over the top.
- Use 3/4" long wood screws, mount grinder over the top.
- Glue the cap into the cover.



LED Light Insert Project

#PKMJA03

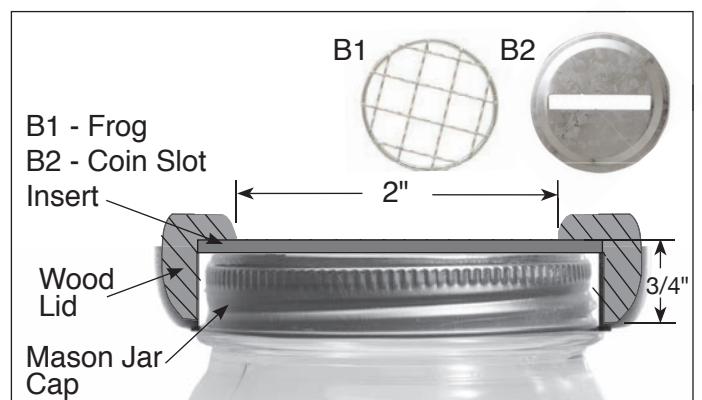
- Use item #PKMJA03. Attach smaller 2.7" top
- Turn the wood top with a 1/2" top thickness to guide plunger.
- Sand and finish the wooden lid.
- Drill a 3/4" hole through the top of the wood with #FB34 bit.
- Turn a plunger 3/4" x 1" to 1 1/2" long
- Glue the cap into the cover
- Affix the led insert onto the jar, follow with the cover.
- Drop the plunger into the hole, click to light the jar.



Frog & Coin Slot Insert Projects

#PKMJA01/02

- Use #PKMJA01 Frog Insert or #PKMJA02 Coin Slot.
- For this project drill the 71mm hole 3/4" deep to accept both the metal lid and inser.
- Sand and finish the lid cover.
- Drill a 2" hole through the top with #FB2.
- Affix the insert into the large opening.
- Glue the lid jar into the opening.



Soap Pump Mason Jar Lid Project

#PKMJRPX

Turn and finish a wood Mason Jar lid per the instructions "Turning instructions Mason Jar Lid Projects". For full instructions go to www.pennstateind.com/library/pkmjrp.pdf

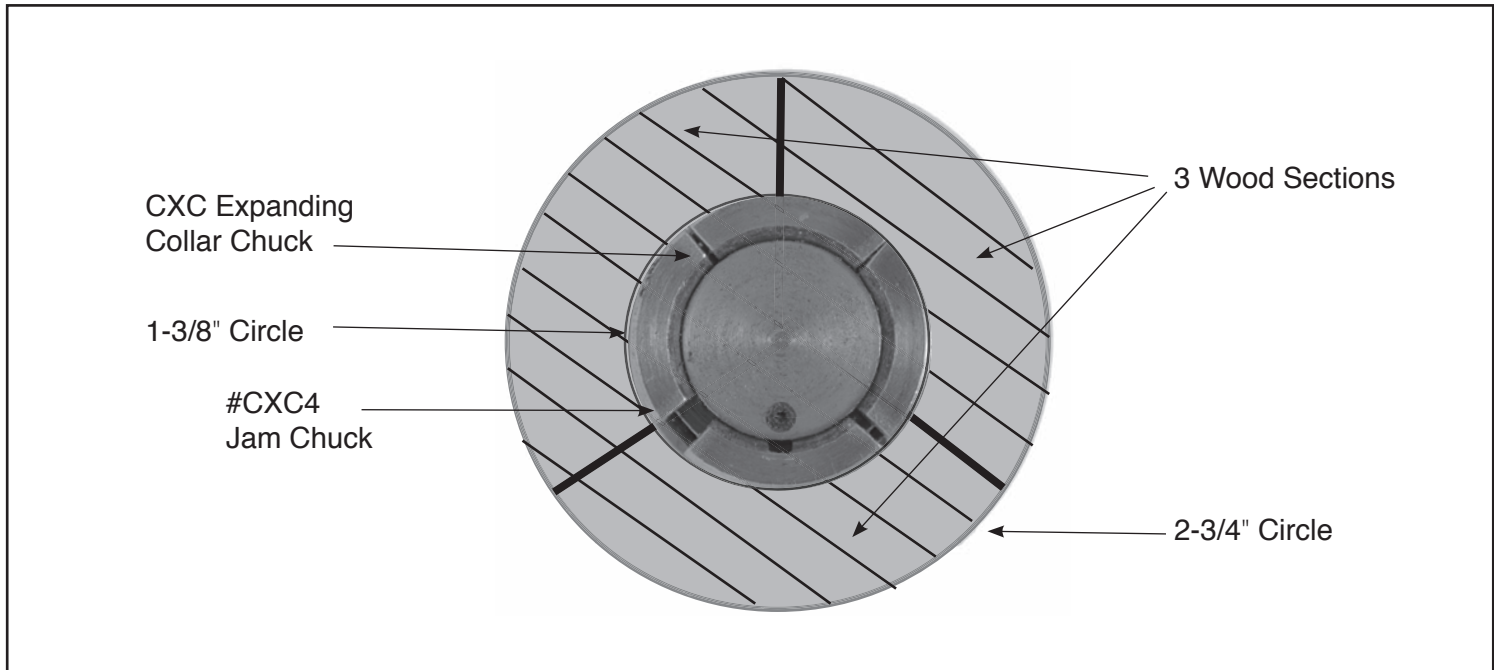
- Drill a 1-1/4" hole, through the center of turned wood lid, (drill while on the lathe for an exact center).
- Enlarge the hole to fit the pump body through the wood lid (done easily with a lathe chisel while spinning on the lathe).
- Glue the metal jar cap (included with the kit) into the wood lid
- Insert the pump from the top, through the hole to rest on the metal jar cap.
- Use the white threaded plug, screw from underneath to secure the pump to the metal jar cap
- Attach the plastic tube to the pump body - cut the tube so it rests about 1/8" above the bottom of the jar.
- Fill the jar with soap, pump to dispense.



* Enlarge to pass pump body

Alternative Chucking DIAGRAM B

If you own a expanding Colett chuck #CXC4 follow these instructions..



Wooden Template & Lid blank

- Select a wooden blank of 5/8" thick, 3 X 3" square.
- Draw a circle of 2 3/4". Divide the circle into 3 equal sections.
- Drill a 1 3/8" hole in center of template.
- Use a bandsaw to cut the template along the lines into 3 sections (See Dia "B").
- Insert the sections into the 71 mm hole in the lid blank.
- Affix the expanding chuck jaws into the hole, twist and, lock the blank in place.
- Mount the assembly onto the lathe for turning.

