

# BRASS MALLET KIT

## Kit Features

- Easy to Turn
- Minimal Parts—easy to assemble
- Overall Length: 5-7/8" minimum

## Required Accessories

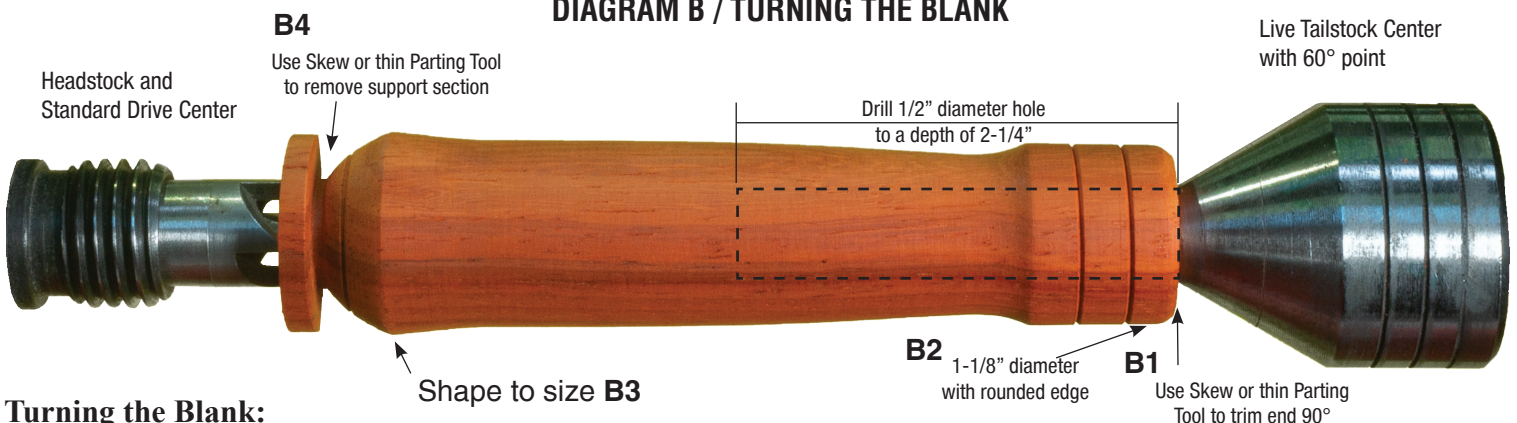
- Standard Drive Center
- Drill Bit: 1/2" #PKDB12
- Live 60° Tailstock
- 2 part Epoxy
- Heavy duty thread locking compound (optional)
- Blank Minimum Size: 1-1/2" x 1-1/2" x 4-1/2"L



## Preparing the Blank:

- Cut blank to length to preferred handle size plus a minimum of 1/2" for trimming and support section – length of 4-1/2" - 6" is recommended.
- Mark the Center of both ends of Blank.
- Drill 1/2" hole lengthwise in one end of blank to a minimum depth of 2-1/4". This is the end where the Mallet Head will be seated.

## DIAGRAM B / TURNING THE BLANK



## Turning the Blank:

- Align Drive Center point to mark on end of Blank opposite 1/2" hole and lightly tap until prongs embed into the end grain.
- Mount the blank onto the lathe between centers according to Diagram B, inserting 60° live center into 1/2" hole.
- Carefully tighten tailstock quill so that wood is pressed firmly against Drive Center Prongs – do not overtighten as this can cause the wood to split.
- Rough turn the Blank to round and mark off a support section on the Headstock side to be parted away when handle is finished.
- Use a skew or parting tool to trim the drilled end to 90° (B1). There will be a small raised rim where the Tailstock Center meets the wood. This can be removed by hand later.
- Turn the wood to a profile of your choice, but turn the drilled end down to 1-1/8" (B2) and round or taper the edge to blend with the bottom edge of the Mallet Head.
- Shape the butt end of the handle, reducing the connection to the support piece as small as possible. Do not part off until finishing is complete (B3).
- Sand and finish the handle. Use either Aussie Oil or use Mahoney's Utility Oil to finish the handle.
- Use a skew or parting tool to remove the support section (B4). Lightly cup your hand under the blank to catch the handle when the support piece is fully removed. There will be a small stub where the support piece started.
- Remove the raised rim around the hole and the stub on the butt. Sand and finish the butt end of the Handle to the same level as the rest of the Handle was.
- Allow finish to cure completely – refer to polish manufacturer's instructions.

## Diagram D / Parts Layout

Threaded Post



Head

**Assembly:**

- Thread Mallet Head fully onto Post. A thread locking compound may be used to keep the Head from coming loose. Remember that the Mallet will be used with force, so a heavy duty thread lock is preferred.
- Mix and apply a moderate amount of 2 part Epoxy to the inside of the hole in the handle. Mix and smooth a generous amount of Epoxy onto the Threaded Post.
- Insert glued Threaded Post into the Handle until there is no gap. To help keep the Head and Handle together while Epoxy is curing and reduce gaps, use plastic wrap to bind the Handle and Head, wrapping several times around the top of Head and the butt of the Handle.
- Allow Epoxy to fully cure – refer to manufacturer's instructions