WS-063 Smooth darning mushroom

Support a sock’s fabric from inside while hand-darning an ordinary worn area.

Controlling dimensions: US inches and feet. Metric equivalents are references. Original editorial design; no physical build, animal trial or load certification is claimed.

Before marking and cutting

US inches; feet where appropriate. Metric values are rounded references. Written inch values control.

3/4 in means measured 0.750 in actual thickness wherever used. Recalculate mating lengths for other sheet thicknesses; do not substitute nominal stock blindly.

Use limits

Not an impact mallet, lever or certified puncture barrier.

Materials and finished cuts

Part	Qty	Size to cut	Material and detail
A Mushroom cap blank	1	3 × 3 × 3/4 in 76.2 × 76.2 × 19.05 mm	Clear solid hard maple, straight grain along the listed length. Measured actual thickness 3/4 in.
B Handle dowel	1	4 1/2 × 3/4 in 114.3 × 19.05 mm	Smooth solid hard maple dowel, untreated; measured diameter controls socket fit.. Round stock: length × diameter. Embed 1/2 in.

Hardware and consumables

1 × Wood adhesive. One blind handle socket.

Tools

Rule with fractional inches; Pencil or appropriate material marker; Reliable square; Saw suited to the specified stock; Clamps; Abrasive and dust-removal brush; Drill with the specified bit and depth stop where needed; Sewing needle or suitable sewing machine; Scissors; Pins; remove and count after sewing; Hand rasp

Primary context and design record

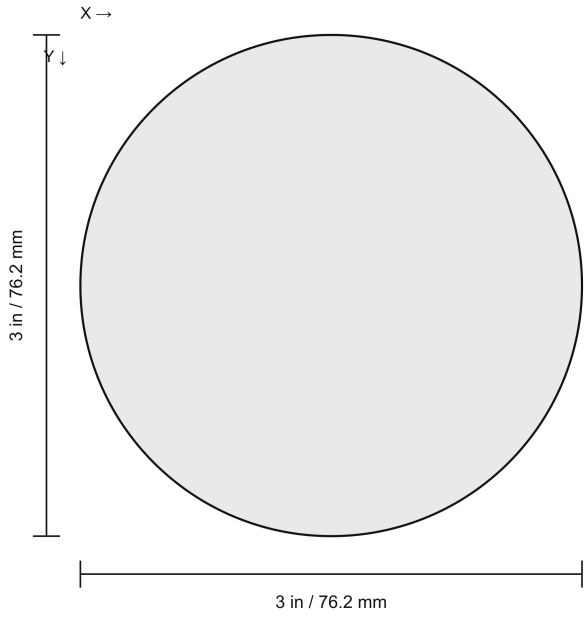
Context references; not design endorsements or certifications.

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Assembly and first checks

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PLAN / reference origin at front-left; not to scale. Inch values control.



Part letters identify the cut-list pieces. Dashed outline = underside part.
Coordinates in the method use the same X/Y reference.
Do not drill from the graphic: transfer the written center coordinates.
Original editorial design; no physical construction trial or certified load rating.

01 Use smooth untreated dry hardwood. The finished tool is for fabric repair and has no medical or food-contact function.

02 Cut A as a 3 × 3 × 3/4 in blank; draw a 3 in diameter circle centered in it.

03 Clamp outside the circle and saw away waste in small sections, leaving the circle line for rasping.

04 Rasp the outer cap to the 3 in circle. Round the upper face perimeter smoothly while keeping a central flat underside for the handle socket.

05 Mark the underside center 1 1/2 in from both blank reference edges. Drill a 3/4 in blind socket 1/2 in deep, leaving at least 1/4 in wood beneath the upper face.

06 Cut B 4 1/2 in long, ease its lower grip end and trial its actual fit in scrap. Do not force it into the cap.

Complete the assembly

WS-063 Component dimensions

Orthographic component reference. Quantities shown; not a sheet nesting plan or full-size template.



3 × 3 in

A Mushroom cap blank QTY 1

3 in / 76.2 mm × 3 in / 76.2 mm
thickness 3/4 in / 19.0 mm



B Handle dowel QTY 1

Length 4 1/2 in / 114.3 mm
diameter 3/4 in / 19.0 mm
embed 1/2 in / 12.7 mm

Measured actual stock controls. Read the written assembly sequence before cutting or fastening.

07 Apply suitable wood adhesive to B’s lower 1/2 in insertion portion, seat square and remove squeeze-out. The exposed grip is 4 in.

08 Cure for the adhesive’s full labeled time. Sand the cap through progressively finer abrasives until a scrap knit fabric slides without snagging.

09 Insert the cap inside a sock and center the worn area over it without stretching the knit hard. Keep the sewing needle away from the grip hand.

10 Remove the tool, count needles and brush away loose fibers after each repair.

Acceptance and intermediate checks

Cap diameter 3 in; blind socket 1/2 in deep.

Handle projection 4 in below cap.

Scrap knit passes over the cap with no snag.

Cleaning and maintenance

Keep dry and smooth.

Replace a cracked cap or loose handle before use.