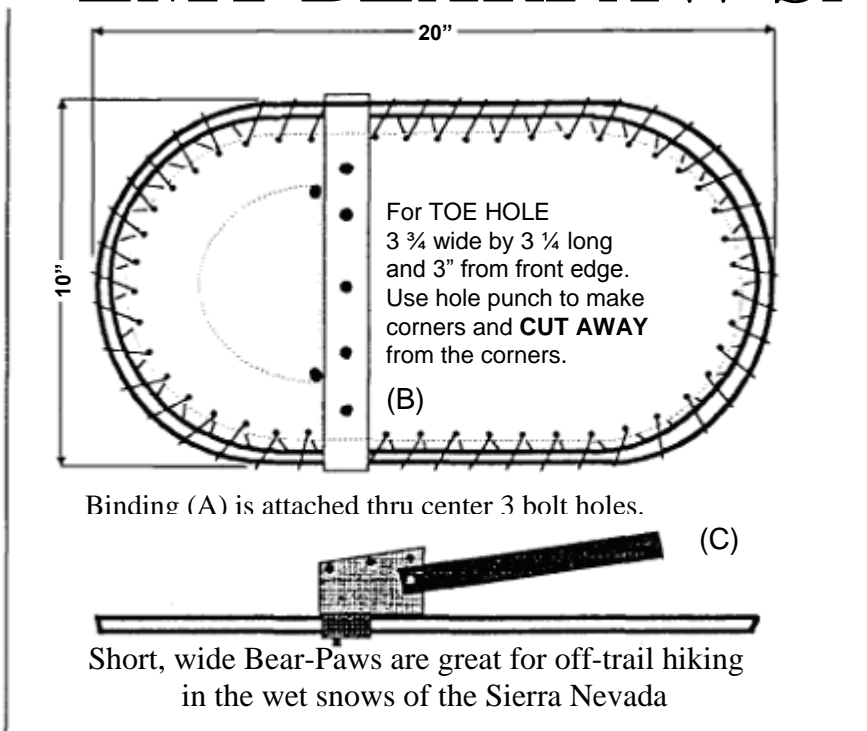


EMT BEARPAW SNOWSHOES



Modern materials and easy construction techniques make these durable snowshoes ideal for anyone interested in sure winter snow travel.

MATERIALS LIST

FRAMES

- 2 ea. 4 1/2' x 1/2" EMT Conduit.
- 2 ea. 6" x 5/8" Hardwood Dowel.

DECKING (measurements may vary)

- 2 ea. 8 3/4" x 18" Reinforced PVC Belting. (As used on grocery conveyors, available from food processing or transport equipment suppliers. Ask for used or scrap)

- 2 ea. 15" x 1/4" Nylon Rope.

BINDINGS use PVC belting for (A) & (B)

- 2 ea. 4 1/4" x 14" Binding. (A)
- 2 ea. 2" x 24" Strapping. (B)
- 1 ea. 1" x 48" Nylon Web Heel Strap. (C)
- 2 ea. Buckle for Nylon Webbing.
- 2 ea. 2' x 3/16" Nylon Rope Laces.

HARDWARE

- 10 ea. 1/4" x 1 1/2" Carriage Bolts.
- 4 ea. 1/4" x 3/4" Carriage Bolts.
- 14 ea. 1/4" 'Aircraft' Lock Nuts & Washers.

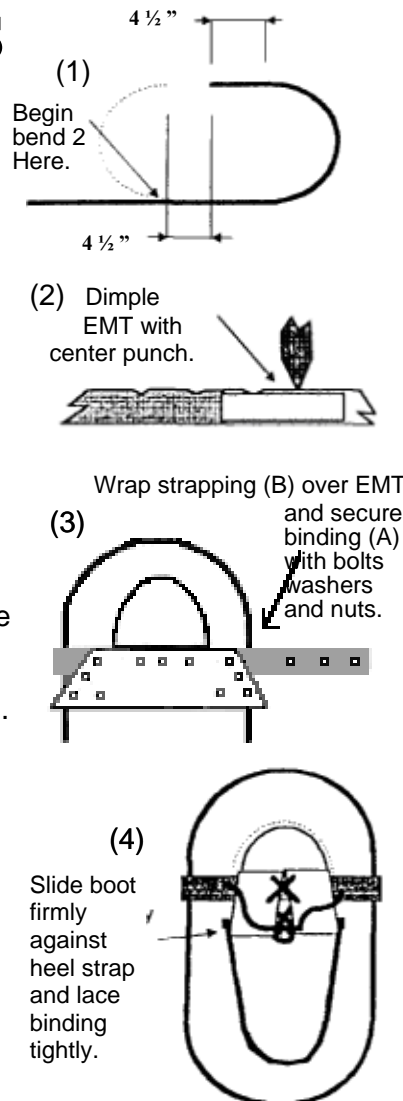
TOOLS REQUIRED

- Half inch Conduit Bender, 2 Furniture Bar Clamps, Hacksaw, Files, Center Punch, Hammer, Knife, Shears, Marking Pen, 1/4" Hole Punch, Hot Glue Gun.

INSTRUCTIONS

FRAME

1. Begin bending EMT 4 1/2" from end, and continue for 180 degrees until sides are parallel.
2. Measure 4 1/2" from middle and bend opposite end 180 degrees until ends meet. (Diagram 1)
3. Cut off excess EMT and file any rough edges.
4. Place dowel halfway into one open end, and center punch EMT to fix dowel in place. (Diagram 2)
5. Using clamps to align sides and reduce any binding, slide the open end onto dowel and squeeze from ends until dowel is completely inside EMT and frame is parallel.
6. Center punch EMT end to fix dowel and keep frame ends aligned.
7. Repeat procedure for second frame.
8. Adjust frames by slight bending, twisting or clamping until frames are equal size and flat.
9. Frames may be painted with enamel after light sanding.



DECKING & BINDING

1. Cut decking to fit inside frame with knife.
2. Punch holes 3/4" from edge approx. one inch apart around the outside of decking.
3. Cut out half ellipse in front third to allow toe to pivot through decking when walking.
4. Lace decking to frame and secure with square knot. Seal knot with Hot Glue Gun.
5. Center strapping (B) on top of decking along toe hole for additional strength.
6. Punch 5 holes 1 1/4" apart centered at toe hole through strapping (B) & decking and secure binding (A) with bolts washers and nuts. (3 holes through) binding (A) (Diagram 3)
7. Wrap strapping (B) tightly around outside of frame, overlapping the ends along the toe hole.
8. Mark matching holes in ends, and punch holes.
9. Secure with 5 ea. Carriage Bolts through holes in binding (A), strapping (B) and decking leaving threaded ends protruding from bottom to serve as ice crampons.
10. Cut Heel Strap (C) into 2 ea. 8" & 16" pieces. Heat seal ends, center male side of buckle on 8" Heel Strap (C).
11. Attach female side of buckle on 16" piece, fold over 'bolt-end' 1 1/2". Hot Glue the folded end together.
12. Punch holes in binding (A) & Heel Strap (C) and attach with 3/4" Carriage Bolts. Cut off protruding threads flush with nut, file away rough edges. (Diagram 4)

Compliments of

Greater Yosemite Council

High Adventure Team 2010

Edited by David Lagesse v1.7