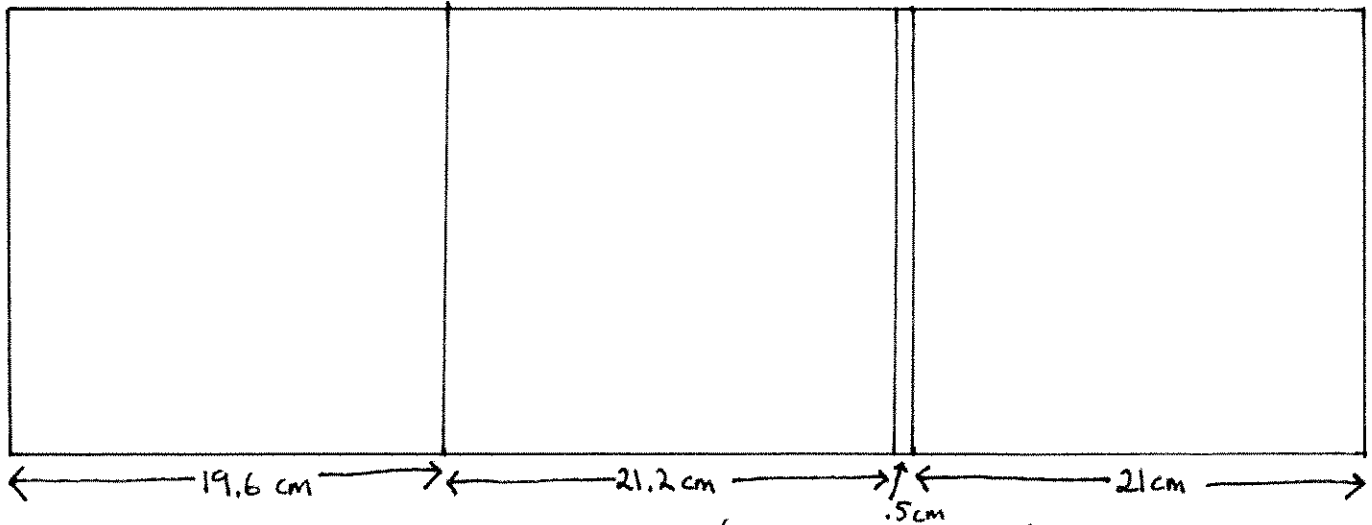
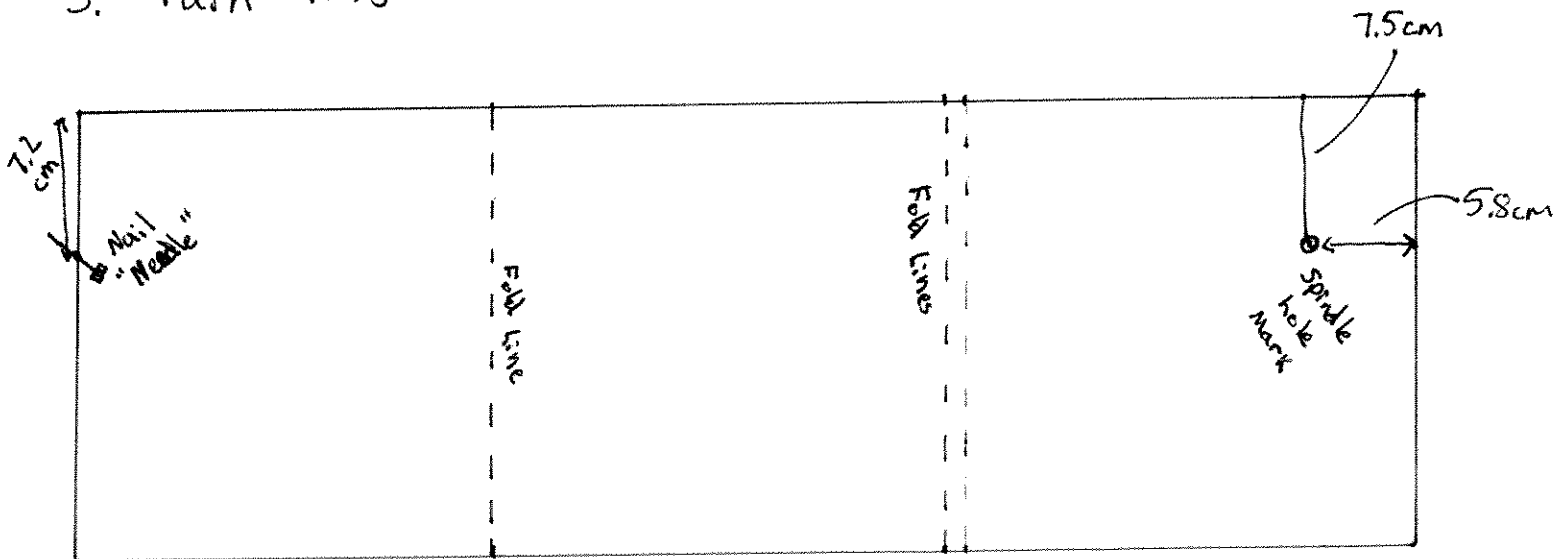


CardTalk - The Make-it-yourself Version

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www.neatscience.com



1. Take a piece of cardboard (62.3 cm x 21 cm) that is thin and strong (original is 2mm thick).
2. Mark the lines as indicated above, use a ruler and an exacto-knife and slit only the outer paper of the cardboard on this side only. These will be the places for the folds.
3. Turn this over and follow the rest of the directions,

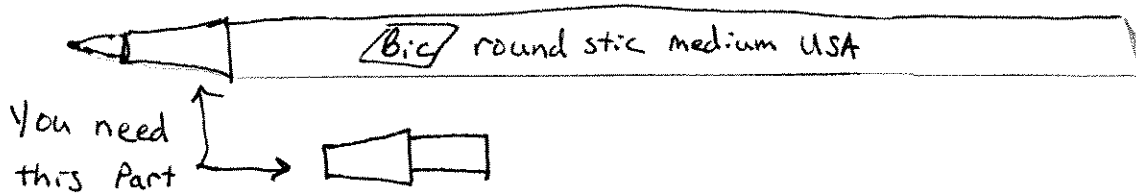


4. Mark the places where the needle and the spindle go.
5. Choose a box or a stiff piece of cardboard that is as big, or bigger, than the folded player (21cm x 21cm)

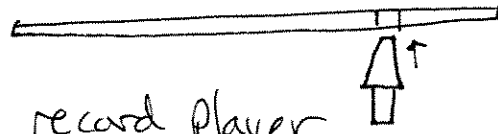
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6. Get a traditional Bic Pen, like a "Bic Roundstic" where you can take it apart to use part of it as the spindle. You will need pliers.

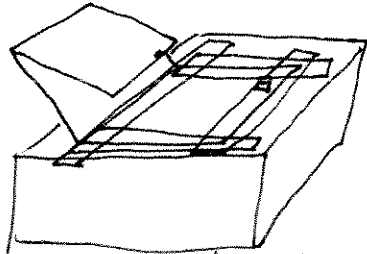


7. Make a hole in the cardboard just big enough for the pointy end of the Bic/spindle and insert this from the bottom side.



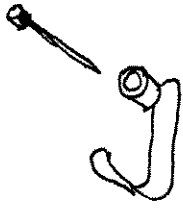
8. Place the "Almost finished" record player on the box (or heavy cardboard) and "center" it where there is the same amount of space left on opposite sides. The bottom of the Bic/spindle can be pressed a little into the box to mark it. Make a hole for the bottom of the Bic/spindle (Just big enough - you do not want it to fall into the box).

9. Tape the base onto the box with packing Tape,

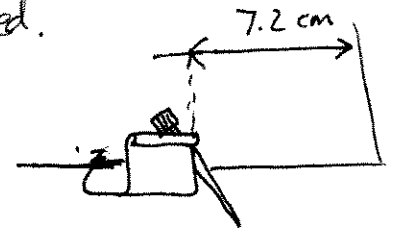
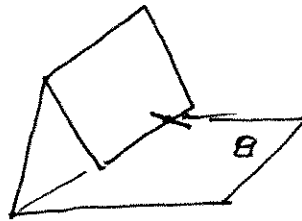


10. I think that putting a sturdy Transparency over the base and taping it down would be a good idea to reduce Friction and wear.

11. Get a very sharp picture hanging nail to be the needle. I used one that has a black nail with a brass head.



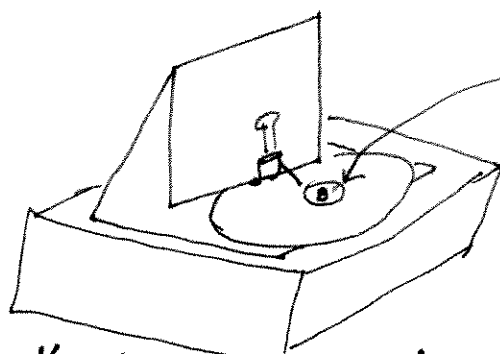
12. Clamp the nail to the flap pointing to the same side as the spindle. I used a small binder clip, but I am sure that it could be epoxy glued.



13. Drill a small hole in a 78 rpm record 3 cm from the center of the record this should be $\frac{1}{8}$ " or a little smaller. Drill slowly. A record with speech will be clearer than a music record, but use what you can find.

Note: 33 rpm/LP stereo records will not play as well since they were not designed to use a needle like this. You will also ruin stereo 45's if they are used with an adapter.

14. You may need to make adjustments to the needle angle and you may need to increase needle pressure by taping some coins to the Flap.



Turn here with a ball point or PDA stylus