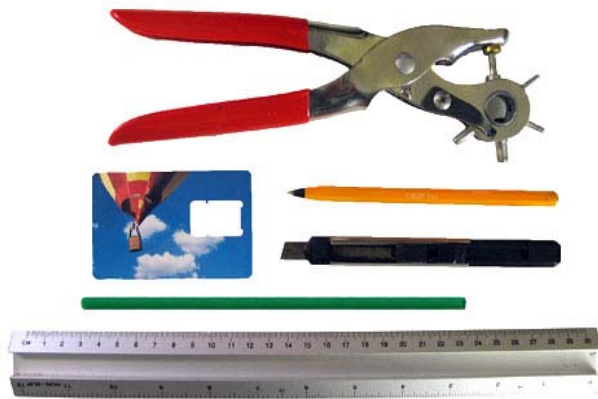


Solar car PV cell angle adjustment assembly construction instructions – Teacher/Student notes



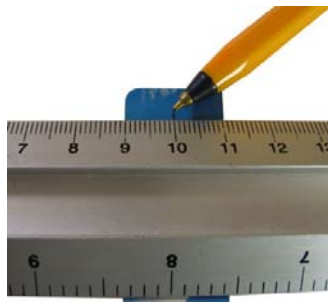
Required equipment:

Leather Punch
Sim-card
Pen
Craft Knife
Straw
Ruler

STEP A Mark and cut along a line, parallel with the top wider edge of the 'sim-card' hole; leaving a 21mm strip.



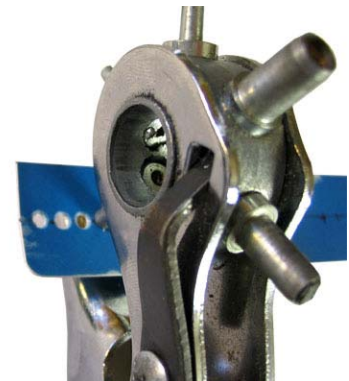
STEP 1 On the 'back' side with the bar code mark and draw two lines 28mm in from the ends; the pressure of pen is enough in preparation to bend the card.



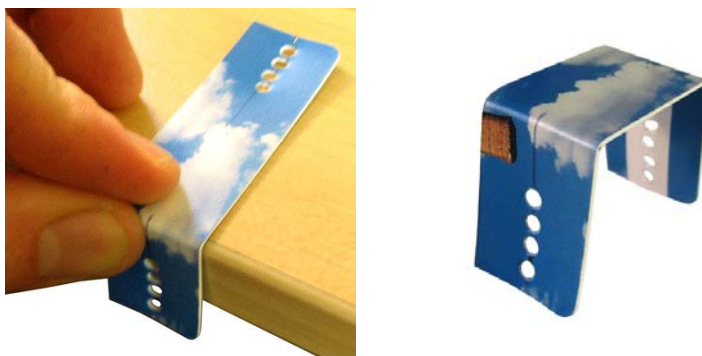
STEP 2 On the front-side, mark and draw a centre line down the length of the strip.

STEP 3 Mark four lines on the centre line at 4mm, 8mm, 12mm, and 16mm from each end.

STEP 4 Use the leather punch to make the 8 holes



STEP 5 Use a straight edge to fold on the 28mm line drawn on the underside as a guide.



STEP 6 Cut a strip of loop Velcro to the length of strip that remains after folding, and attach.

How to reduce 'side-play' in the adjustable support assembly

STEP 7 Use straws to reduce side play. The diameter of the straw should be greater than the diameter of the holes in the fold.



STEP 8 Cut straw to: 2x **35mm** and a **28mm** piece.

STEP 9 Place each 35mm piece of straw between wheel and folded ends AND the 28mm piece between inner folds, as shown in picture. Ensure there is no friction.