

# Orange Gears : L-Shaped support construction guidez

## Equipment



Pen  
Ruler  
Compass  
2mm Drill bit

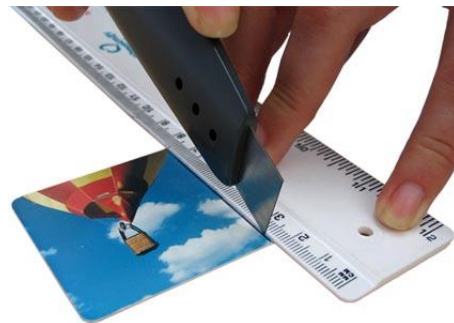
Marking gauge  
Craft knife  
2 Sim-card holders

## Process



Mark out, 53mm from the edge and draw a line across the card so you retain the maximum amount of card, while removing the hole.

Score across the card, along the line with the craft knife. Do not worry about pressing on too hard as the card will snap along the line and always ensure your fingers are well out of the way.



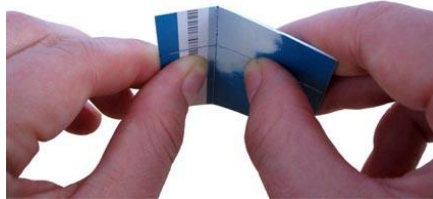


Mark out 4 lines: 2 parallel with and 18mm from the cut edge of the card, 1 line 18mm from the right-hand edge of the card and 1 line 18mm from the left-hand edge of the card (see right)



Score along the lines marked out lines, pressing on firmly.

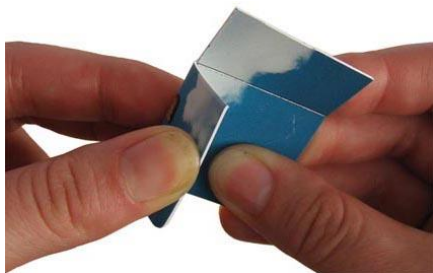
Once all 4 lines have been scored along, bend the card as shown. Being careful not to bend the card too far or quickly, as the card may snap.



Carefully score along the two 18mm lines of the square in the corner of both of the cards with the craft knife.



Gently bend the corner square back and forth until it snaps out.

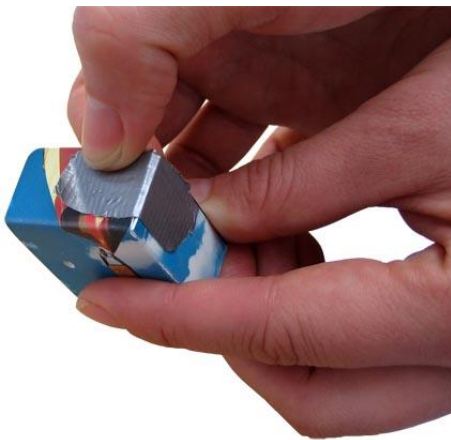


Carefully bend the sides up one at a time, taking care not to bend them too far.



With the two curved edges of the card at the top and your thumbs on either side, carefully press the card onto the marking gauge. Ensuring the spike comes through in the middle of the card.

Using the 2mm drill bit, carefully twist through the hole made by the scribe removing all the swarf. You may need to repeat this process from the other side of the hole to ensure the axle can run freely. Repeat for other card.



Press the two sides together and secure them with strong gaffers tape, ensuring they meet at 90 degrees. Repeat.



Finished two L-shapes should be 'opposite' to each other.