

## Front Axle Support Construction Instructions



### Required equipment:

Sim-card/credit card  
Pen, craft knife, straw  
Ruler  
Hole punch

**STEP 1** Mark and cut along a line, parallel with the top wider edge of the 'sim-card' hole; leaving a 21mm strip.



**STEP 2** On the 'back' side with the bar code, mark a line 18mm from each end.



**STEP 3** Draw a centre line down the length of the strip.

**STEP 4A** A hole punch can be used to produce the axle support (NB. It can not be used for the angle adjustment component as it requires smaller holes).

**STEP 4B** Slide the strip into the hole punch from the front until it stops. With the hole punch on the desk crouch down to see the punch when the handle is gently pressed. Adjust the strip so the punch lines up with centre line. Punch the hole through (NB. The plastic can be tough). **FLIP OVER lengthwise** and repeat for the other hole.



**STEP 5** Use a straight edge to fold the ends of the strip along the 18mm line from end of strip; leaving a 90 degree angle. In completing **STEP 7** adjust this angle to ensure there is minimal friction and to reduce side play.

**STEP 6** Cut a piece of 'loop' Velcro to 4.5cm and attach as shown in figure to the right.

### How to reduce 'side-play' in front axle assembly

**STEP 7** Use straws to reduce side play. The diameter of the straw should be greater than the diameter of the hole in the fold. Measure 2 lengths of straw to fit between the wheel and folded end of the strip. Adjust length of straw and angle of fold to ensure there is no friction.

**STEP 8** Place each piece of straw between wheel and folded end of strip, as shown in picture on right.

