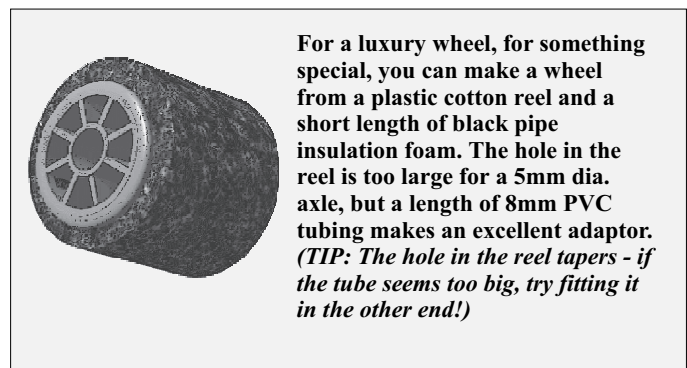


Here are three ways to build wheels from card discs. Make up the bottom disc complete with spacers - push onto jig, right to the bottom of the dowel. Glue surfaces, then push top disc onto jig and press down. If you make jigs with at least 8cm of protruding dowel you will be able to build a set of four wheels one above the other at the same time (see above).

- A** Use two discs separated with two or more short pieces of wood.
 - B** Cut a strip of bendy card (use the paper trimmer) and form a loose spiral. Separate the card discs with this.
 - C** You can halve the number of discs you need if you replace one disc with a card square (3 x 3cm?). This makes very economical wheels and is the method we recommend.
- For a really smart finish you can wrap a paper tyre around either A or B.*

FIXING AXLES TO CHASSIS

- A** A 'bridge' of thick paper or thin card glued over the dowel.
- B** A block of wood, drilled before fixing. Excellent but usually means a queue at the drill - wasted time!
- C** Card triangle with punched hole. These can be bought but are very easy to make. Remember the dowel axle will be free to move if you use this method. Does this matter?
- D** Saw a short length of wood with a slightly sloping cut. Reverse one of the pieces to form a 'triangular' slot. Strong but easy - and adjustable!



WHEEL RETAINERS

- A** A drilled block of wood. Could be shaped with glasspaper or one could use a wooden bead.
- B** A rubber tap washer - expensive and perhaps better to use these as wheels in their own right.
- C** A narrow strip of masking tape. Best cut on a cutting mat with a modelling knife.
- D** PVC tubing - ideal! - and don't forget the simple card washer shown opposite.

