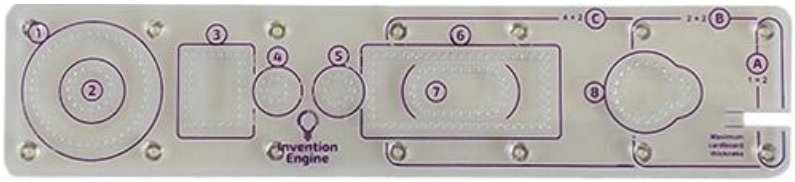
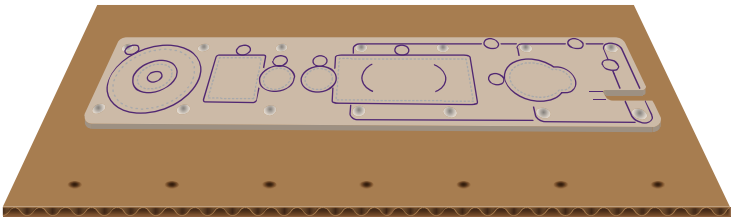
Stencil datasheet

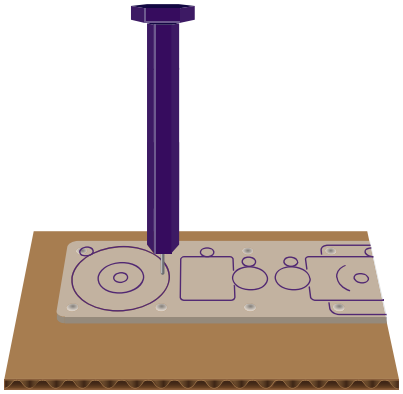


The stencil is used in conjunction with the punch tools to create holes in cardboard for the hub and bits to attach to.

The stencil has spikes that create a pattern of indentations in cardboard. These indentations are used as a guide to punch holes for the rivets.

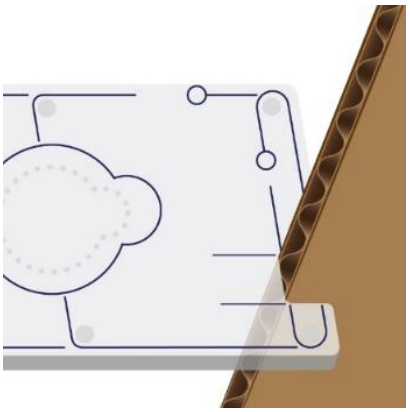
Each spike is 25mm/1 inch apart and can form a continuous pattern or grid. The markings (A), (B) and (C) indicate the size of the spacing and reference which bits suit that spacing.





The stencil has groups of small holes. These are used as a guide to create perforations in cardboard with the inner punch tool. Each group of holes has a reference number (1) through to (8) that reference which bit suits that group of holes (see the stencil bit guide below).

There is a cardboard thickness gauge to check that cardboard is the correct thickness to use with the rivets. The gauge ensures that the cardboard is no greater than 3mm/0.12 inch thick. If the cardboard is any thicker, then the rivets will not fit through correctly.



Stencil bit guide

Bit	#	Bit	#	Bit	#
Hub	Ⓑ	Digital display bit	⑥	Noise sensor bit	⑤
Battery bit	Ⓒ	Tilt sensor bit	Ⓑ	Magnet sensor bit	Ⓐ
LED bit	④	Light sensor bit	④	Magnet bit	Ⓐ
Speaker bit	①	Dial bit	③	Temp. sensor bit	④
Button bit	②	Servo bit	⑧	IR transmitter bit	④
Proximity sensor	⑦	Motor bit	⑧	IR receiver bit	④