

# The through hole process is so amazingly simple!!

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BBR-5208

BBR-5210

## Through Pin Kit

Without using any plating chemicals, through pin process can be completed by inserting the special through pin. The surface will be smooth just like with the plating method. With high reliability, the appropriate electrical characteristics and mechanical strength can be acquired.

### USE

- Though hole substrates can be made easily using double-side sensitive substrates.
- It is also very useful to add through holes to substrates already with through holes.
- Through hole additions and repairs can be made on substrates even after parts have been assembled on it.



(parts sold separately)

Product Name	Model Name	Amount	Note
Through Hole Pin	for 0.8mm	BBR-001	250 pin
	for 1.0mm	BBR-002	250 pin
	for 1.2mm	BBR-003	250 pin
Inserter	for 0.8mm	BBR-010	1
	for 1.0mm	BBR-004	1
	for 1.2mm	BBR-005	1
Drill Bit	for 0.8mm	BBR-011	2
	for 1.0mm	BBR-006	2
	for 1.2mm	BBR-007	2
Auto Punch	BBR-008	1	same for 0.8, 1.0, 1.2mm

### ●BBR-5208 1 kit set for 0.8mm

\* Contents of kit for 0.8mm

BBR-001	0.8mm pin (25 pin)	10
BBR-010	inserter for 0.8mm	1
BBR-011	0.83mm drill bit	1
BBR-008	auto punch	1
BBR-009-2	base and bar for press	each 1

### ●BBR-5210 1 kit set for 1.0mm

\* Contents of kit for 1.0mm

BBR-002	1.0mm pin (25 pin)	10
BBR-004	inserter for 1.0mm	1
BBR-006	1.04mm drill bit	1
BBR-008	auto punch	1
BBR-009-2	base and bar for press	each 1

(Note) There is 1 drill bit for the kit.

### ●BBR-5212 1 kit set for 1.2mm

\* BBR-5212 is produced after orders are received.



BBR-010 BBR-004 BBR-005  
(Inserter)



BBR-001 BBR-002 BBR-003  
(Through Pin)



BBR-011 BBR-006 BBR-007  
(Drill Bit)



BBR-008  
(Auto Punch)



## Work Procedure

<p>1</p> <p>Drill</p> <p>Drill a hole with the attached drill bit to make a through hole. (Please use a 1.04mm bit for a 1.0 pin, and 1.21mm bit for a 1.2 pin.)</p>	<p>5</p> <p>Solder</p> <p>Put solder on both sides of the pin with a solder iron.</p>
<p>2</p> <p>Pin</p> <p>Place the substrate on the press base, and press the pin in using the knock-pen type inserter.</p>	<p>6</p> <p>Solder blotter</p> <p>Use a solder blotter to remove the solder from the pin, and it will become a clean through hole.</p>
<p>3</p> <p>Bend right and left</p> <p>Once the pin reached the base, move the inserter largely to the right and left and break the pin.</p>	<p>7</p> <p>click</p> <p>If there is no solder blotter available, hit the substrate on the edge of a table right after soldering both sides, and the solder will jump out, like in the illustration. (* Note: do not do this to substrates that have parts attached.)</p>
<p>4</p> <p>click</p> <p>Auto punch</p> <p>Then, place the auto punch in the center of the pin, and press down strongly.</p>	<p>8</p> <p>Finish</p> <p>Assembled substrate</p> <p>When working with an assembled substrate, attach it to the bar like in the illustration and work on top of the bar.</p>