

## 201-3140 Plated Hole Repair Kit

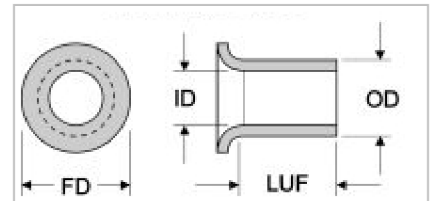
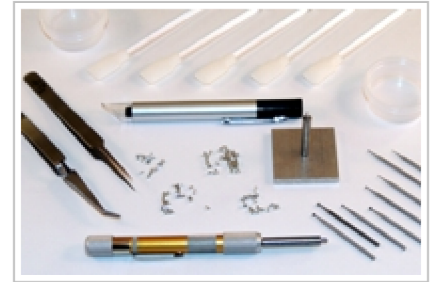
## Instruction: INS1074

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This kit includes all the tools and materials you need to repair damaged plated through holes in circuit boards.

The kit includes 8 packages of various eyelet sizes to handle a wide range of common plated through hole repairs. The kit also includes carbide ball mills for drilling, and setting tools to properly form the eyelets in place.

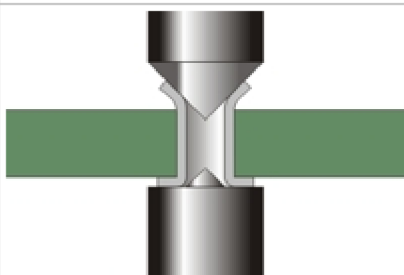
For detailed instructions covering a range of plated hole repair and rework procedures see [www.circuitrework.com/guides/guides.html](http://www.circuitrework.com/guides/guides.html)



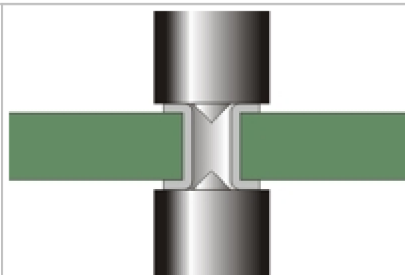
### Eyelet Selection Criteria

ID - Inside Diameter	.003" - .020" greater than the component lead diameter.
OD - Outside Diameter	The clearance hole in the circuit board should be .001" - .005" greater than the outside diameter.
LUF - Length Under Flange	The length of the flange should be .020" - .035" greater than the thickness of the circuit board.
FD - Flange Diameter	The flange diameter should be small enough to prevent interference with adjacent pads or circuits.

### Eyelet Forming Process



First, apply firm even pressure using the flare end of the setting tool to flare the eyelet barrel.



Next, apply firm even pressure using the opposite flat end of the setting tool to flatten the eyelet barrel.

To set eyelets by hand use the following:  
 (2) 115-3120 Setting Tool, Hand  
 (1) 115-3122 Tool Base  
 (1) 115-3139 Tool Grip

\* To set eyelets using #110-5202 Eyelet Press use the following tooling:  
 (2) 115-3123 Setting Tool, Small or  
 (2) 115-3126 Setting Tool, Large

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Includes the following items.

<b>Qty</b>	<b>Part No. / Item</b>
1	115-6000 Ball Mill Pack - Sizes #1/2 - #7
Pkg/25	115-7306-25 Eyelet, Flat Flange
Pkg/25	115-7366-25 Eyelet, Flat Flange
Pkg/25	115-7576-25 Eyelet, Flat Flange
Pkg/25	115-8736-25 Eyelet, Funnel Flange
1	115-3115 Measuring Microscope Pen, 25X
2	115-3120 Setting Tool, Hand
1	115-3139 Tool Grip
1	335-5185 Tweezer, Point Tip

<b>Qty</b>	<b>Part No. / Item</b>
Pkg/25	115-7206-25 Eyelet, Flat Flange
Pkg/25	115-7336-25 Eyelet, Flat Flange
Pkg/25	115-7456-25 Eyelet, Flat Flange
Pkg/25	115-7676-25 Eyelet, Flat Flange
Pkg/5	235-2108-5 Foam Swab, Large
5	115-3312 Plastic Cup
1	115-3122 Tool Base
1	335-5188 Tweezer, Crossover