



## PCB Fabrication Starter Kit and "Combo" Crossover Kit



The PCB "Fab-In-A-Box" Starter Kit makes it easy to fabricate single and double sided printed circuit boards. **GBC® Laminator is not included in these kits.**

**Starter Kit Includes:** • 20 Sheets TTS paper • 2 - 8" x 10" x .032" Single Sided PCBs • 2 - 8" x 10" x .032" Double Sided PCBs • Green TRF • White TRF • Sample Images

Fabricate single and double sided PCBs and create custom enclosure graphics with the "Combo" Crossover Kit.

**Combo Kit Includes:** • 20 Sheets TTS paper • 19 Foil Samples (8" x 36") • 2 Fiberglass Laminate Carrier Boards • Carrier TRF (8" x 15") • 3M Low-Tack Tape • 2 Alignment Carriers • KK-2000 Adhesive Spray • Alcohol Swabs • Sample Images • 2 - 8" x 10" x .032" Single Sided PCBs • 2 - 8" x 10" x .032" Double Sided PCBs • Green TRF • White TRF

182-1027-ND	PCB Fabrication Starter Kit for PCBs.....	\$74.95
182-1028-ND	PCB Fabrication and DecalPRO "Combo" Kit for PCBs.....	\$149.95

## DecalPRO® Starter Kit



Make custom white, metallic and full color decals with the DecalPRO Kit. Ideal for "1-up" and prototyping projects. *Kit does not include laminator.*

**Kit Includes:** • 20 Sheets of TTS paper • 19 Foil Samples (8" x 36") • 2 Fiberglass Laminate Carrier Boards • Carrier TRF (8" x 15") • 3M Low-Tack Tape • 2 Alignment Carriers • KK-2000 Adhesive Spray • Alcohol Swabs • Sample Images • 4-page "Quick-Start" Instructions

182-1026-ND	DecalPRO Starter Kit for Dry-Transfer Text Graphics.....	\$89.95
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## TONER TRANSFER SYSTEM

Make instant circuit boards using any laser printer or photocopier!



### Simple 3-Step Process:

1. Print circuit layout directly to TTS paper
2. Iron the image to copper-clad board
3. Soak in water to remove paper; now ready to etch!

NO DARKROOM!  
NO NEGATIVES!  
NO CHEMICALS!  
NO LOST TIME!



GBC Laminator

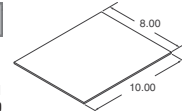
- Detailed instructions included for making single and double sided PCBs
- Also shows how to make custom full color decals for any application
- Sheet size: 8-1/2" x 11" (21.59cm x 27.94cm)

182-1030-ND	Economy Laminator .032" PCBs for PCB Fabrication.....	\$69.95
182-1003-ND	TTS Paper Packet (10 Sheets).....	\$13.80

## Printed Circuit Boards



2 Pack, Copper Clad, 1/2 oz. Copper



182-1017-ND	PCB Single Sided, .032", 8x10", 1/2 oz., 2 Panels.....	\$17.81
182-1018-ND	PCB Double Sided, .032", 8x10", 1/2 oz., 2 Panels.....	\$19.99

## Toner Foils "Green TRF"



### Simple 4-Step Process:

1. Transfer image to copper surface using the TTS paper
2. Iron on the Green TRF film
3. Pour 2 ounces Ferric Chloride into tray
4. Using an etchant soaked sponge, rub away the unwanted copper. (Disposable gloves required)

- Works in conjunction with TTS paper • Completely seals the toner • ZERO pitting • Able to use heavier copper boards
- Size: 8" Wide x 15"

182-1021-ND	.....	\$8.95
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## Toner Foils "White TRF"



Use the White TRF for adding "silkscreen" artwork to your board! Place the white TRF paper over exposed toner "silkscreen" and apply heat to transfer the white pigment onto the toner, which is fused to the PCB. Perfect for finishing prototype boards and giving them a professionally silkscreened appearance. • Size: 8" Wide x 15"

182-1022-ND	.....	\$8.95
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## INJECTORALL

## Drill Bits

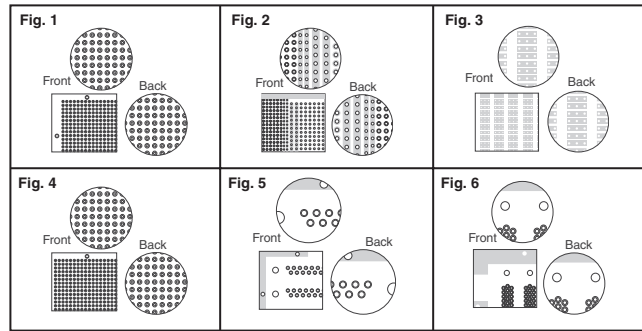


Electronics Corp.

Diameter Inch (mm)	Digi-Key Part No.	Price Each		Injectorall Part No.
		1	10	
<b>High Speed Steel</b>				
.062" (1.57)	PC300-52-ND	1.77	1.29	PC300-52
.052" (1.32)	PC300-55-ND	1.96	1.43	PC300-55
.040" (1.02)	PC300-60-ND	1.96	1.43	PC300-60
.033" (.84)	PC300-66-ND	2.23	1.63	PC300-66
.029" (.74)	PC300-69-ND	2.51	1.83	PC300-69
.021" (.53)	PC300-75-ND	2.51	1.83	PC300-75
.0135" (.34)	PC300-80-ND	2.51	1.83	PC300-80
<b>Carbide - All carbide bits have 1/8" (3.18mm) shank</b>				
.062" (1.57)	PC300C-52-ND	9.26	8.11	PC300C-52
.052" (1.32)	PC300C-55-ND	7.55	6.61	PC300C-55
.040" (1.02)	PC300C-60-ND	7.55	6.61	PC300C-60
.033" (.84)	PC300C-66-ND	7.55	6.61	PC300C-66
.031" (.79)	PC300C-68-ND	7.55	6.61	PC300C-68
.029" (.74)	PC300C-69-ND	7.55	6.61	PC300C-69
.021" (.53)	PC300C-75-ND	12.01	10.51	PC300C-75
.0135" (.34)	PC300C-80-ND	12.01	10.51	PC300C-80



## Specialty Prototyping Boards



Material: FR-4

Fig.	Description	Dimensions W x L x H	Digi-Key Part No.	1	10	25
1	Prototype Board, 2mm Grid, Pad-Per-Hole with J1 Connector, .025" holes plated thru	3.94" x 6.3" x .062"	V1253-ND	28.77	25.30	22.46
2	Combo Board, 2mm/100" Grid, Pad-Per-Hole with J1, .025" and .042" holes plated thru	3.94" x 6.3" x .062"	V1254-ND	33.38	29.35	26.05
3	Prototype Board, 2mm Grid, Three Hole Solder Pads, .025" holes plated thru	3.94" x 6.3" x .062"	V1255-ND	20.15	17.72	15.72
4	Combo Board, 2mm/100"/.050" Pad-Per-Hole 3-Grid Combo, .025" & .042" holes plated thru	3.94" x 6.3" x .062"	V1256-ND	20.15	17.72	15.72
5	Prototype Board, Standard Density 25, 15, 9 Pin, D-Sub, 0.39" Diameter Holes	3.94" x 6.3" x .062"	V1251-ND	23.00	20.23	17.95
6	Prototype Board, High Density 15, 26, 44, 62, 78, and 104 Pin, D-Sub, 0.39" Diameter Holes	9.19" x 6.3" x .062"	V1252-ND	29.90	26.29	23.34

## Prototyping Boards

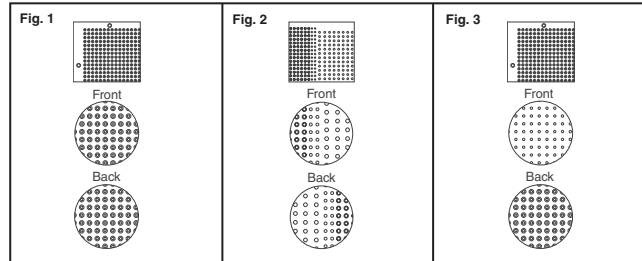
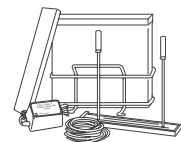


Fig.	Description	Dimensions W x L x H	Digi-Key Part No.	1	10	25	Vector Part No.
1	Prototype Board, 2mm Grid, Pad-Per-Hole .025" Double Sided, PTH	3.94" x 6.3" x .062"	V2013-ND	17.53	15.41	13.68	8017
2	Combo Board, 2mm/100" Grid, Pad-Per-Hole Double Sided, PTH	3.94" x 6.3" x .062"	V2014-ND	20.11	17.68	15.70	8018
1	Prototype Board, 1mm Grid, Pad-Per-Hole .025" Double Sided, PTH	3.94" x 6.3" x .062"	V2016-ND	34.03	29.92	26.56	8020
1	Low Cost Double Sided, .100 x .100" Grid, Pad-Per-Hole, PTH	4.00" x 6.00" x .062"	V2009-ND	11.52	10.13	8.99	8015
3	Low Cost Single Sided, .100 x .100" Grid, Pad-Per-Hole, PTH	4.00" x 4.00" x .062"	V2010-ND	7.33	6.45	5.73	8015-1
1	Low Cost Double Sided, .100 x .100" Grid, Pad-Per-Hole, PTH	6.00" x 9.00" x .062"	V2011-ND	19.47	17.12	15.20	8016
3	Low Cost Single Sided, .100 x .100" Grid, Pad-Per-Hole, PTH	6.00" x 6.00" x .062"	V2012-ND	10.59	9.32	8.27	8016-1

♦ RoHS Compliant



## Professional PC Board Power Etching System and Etch Resist Ink Pens



A semi-automatic etching device for use in labs, schools, prototype shops and for limited PC board production. Air pump agitates etching solution for fast, very even etches. Handles up to two 8" x 10" (20.32cm x 25.40cm) PC boards at a time, either single or double sided.

Etching Kit Contains:

• 1 Etching Tank (1.25 Gallon capacity; 4.73 Liters) and Reservoir Lid, 12" H x 2 1/2" W x 10 1/2" L (30.48cm x 6.35cm x 26.67cm), (Molded Polyethylene — ABS PC Board Holder), Capacity • 1 Etch-O-Matic Power Agitating Pump, 120V AC Operation • 1 Permanent or Portable Tip-Free Base • 1 PC Board Holder and Handle • 4 Feet (1.22 Meters) of Supply Hose

GC394-ND	Etching Kit.....	\$96.03
GC392-ND	Etching Solution Heater.....	\$20.47
GC220-ND	Standard Size Pen — draws lines approximately 1/32" (.79mm) wide — RoHS Compliant.....	\$4.19
GC222-ND	Fine Line Pen — draws lines as thin as 1/64" (.40mm) wide — RoHS Compliant.....	\$4.46

More Product Available Online: [www.digkey.com](http://www.digkey.com)

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