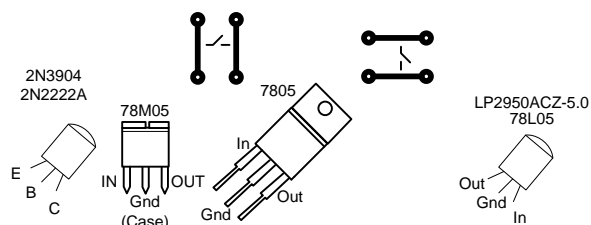


Package Outlines

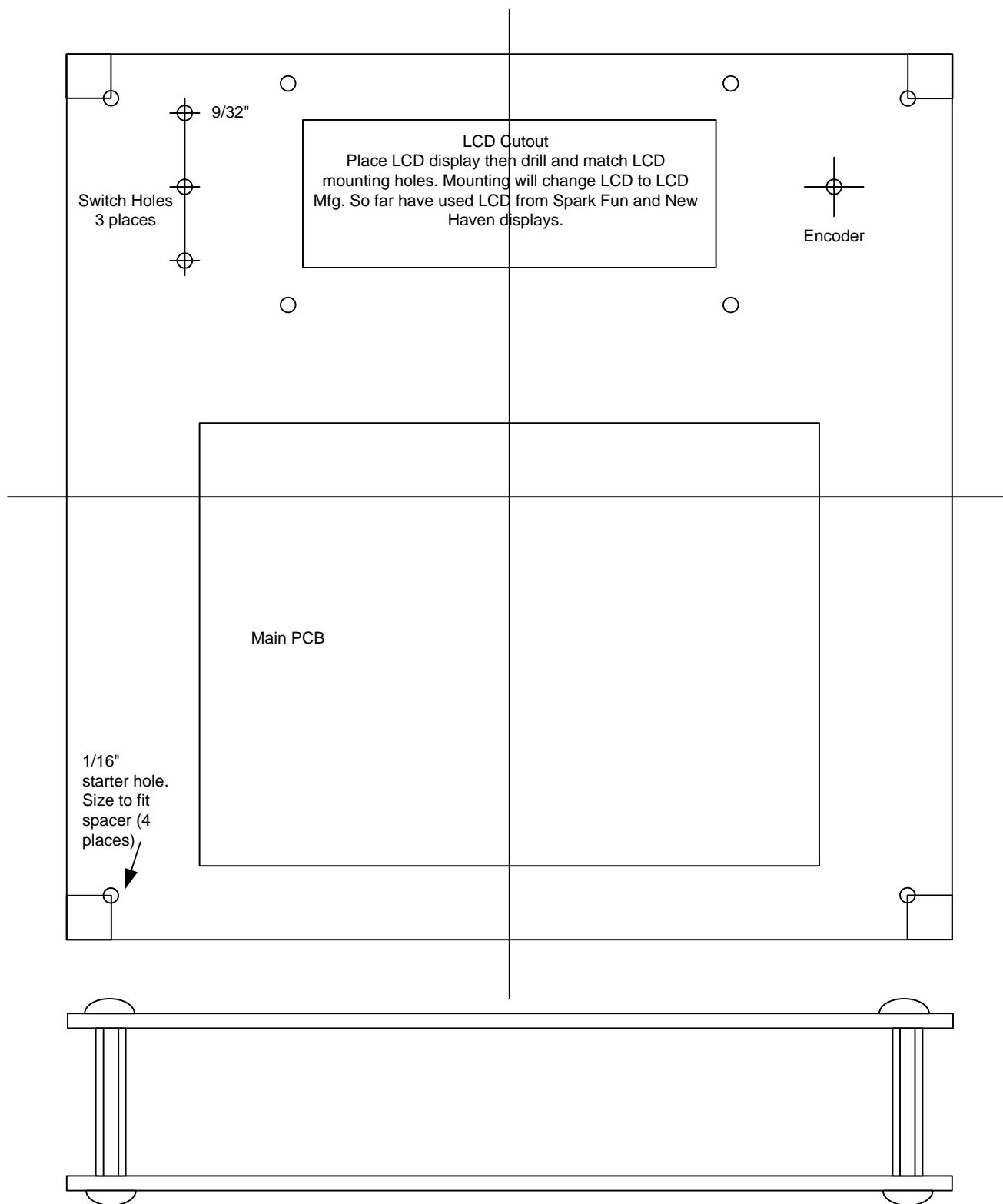


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.5"x.5"

Date:	Revision/Addition/ Note	By:
May. 19, 2017	Initial Drawing, DDS VFO by VK5TM ( <a href="http://www.vk5tm.com">http://www.vk5tm.com</a> )	GSC
July 4, 2017	Flipped orientation of DDS module on Ver.2 PWB	GSC
July 4, 2017	Will work with both AD9850 and AD9851 DDS Module but will require a software change in PIC.	GSC
July 4, 2017	Added the option of an optical encoder by adding a 5Vpin on Ver-1, Ver-2. Requires software change for an optical encoder.	GSC
Sept 17, 2017	Added Ver-5, reduced size PWB. Artwork proved out.	GSC
Sept 22, 2017	Added Ver-5.1, moved L1,L2 to give little room for a different inductor I found surplus. 2.5 turns on a 6 hole ferrite bead, about 22uh@10Mhz.	GSC
Oct 10, 2017	Added Ver-5.2, New 10K pot has a different footprint. Expanded the board a little to reduce crowding. Moved DDS module .1" as it rubbed the LCD connector.	GSC

Drawn By:	Gerald Crenshaw WD4BIS	Date:	May. 21, 2017
Designed By:	Gerald Crenshaw WD4BIS	Date:	May. 21, 2017
Checked By:	Janet Crenshaw WB9ZPH	Date:	May. 21, 2017

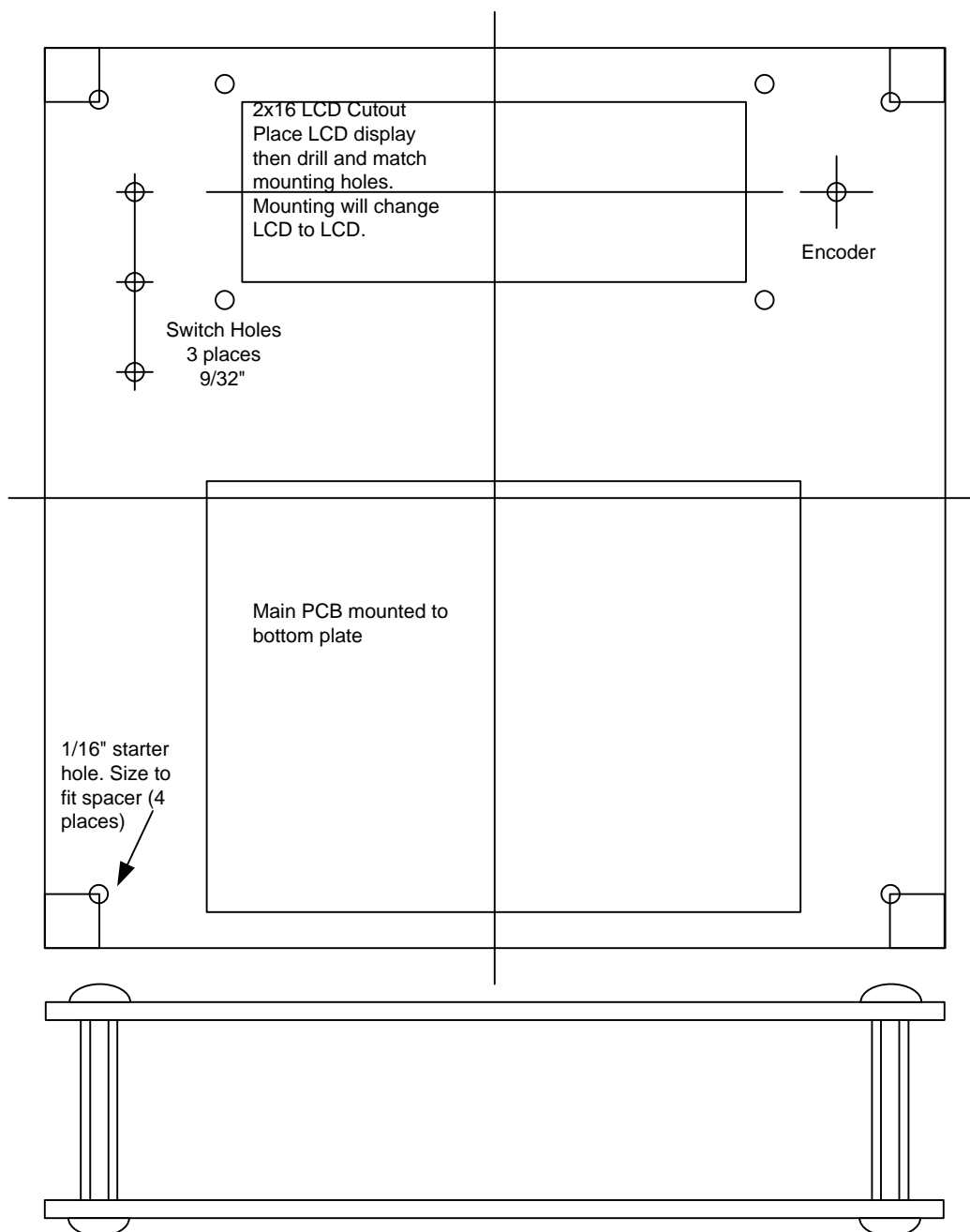
From the bench of:	Page 1
Amateur Radio Station WD4BIS	of 1
Title: VK5TM DDS VFO WD4BIS PCB	Scale:



Date:	Revision/Addition/ Note	By:
June 17, 2017	Initial Drawing, Mounting plates, going to mount device between 2 6"x6" plates of plexiglass with 1" spacers, #8 threads.	GSC

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Drawn By: Gerald Crenshaw WD4BIS	Date: June 17, 2017	From the bench of: Amateur Radio Station WD4BIS	Page of 1 1
Designed By: Gerald Crenshaw WD4BIS	Date: June 17, 2017		
Checked By: Janet Crenshaw WB9ZPH	Date: June 17, 2017	Title: VK5TM DDS VFO Mounting plates	Scale:

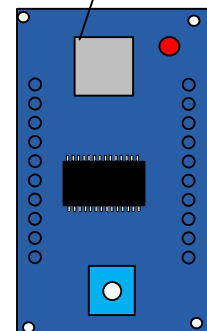
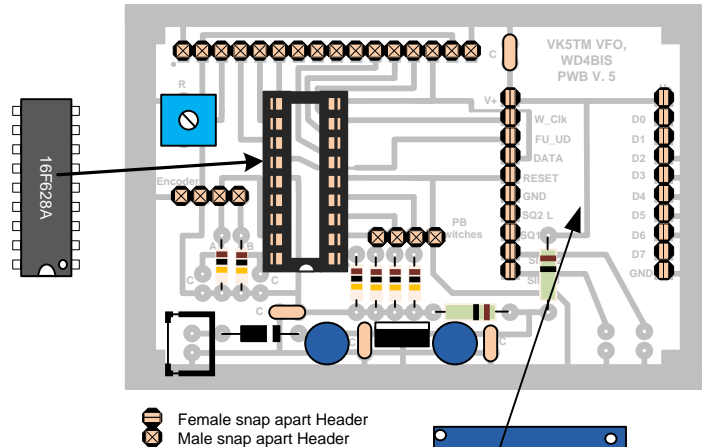
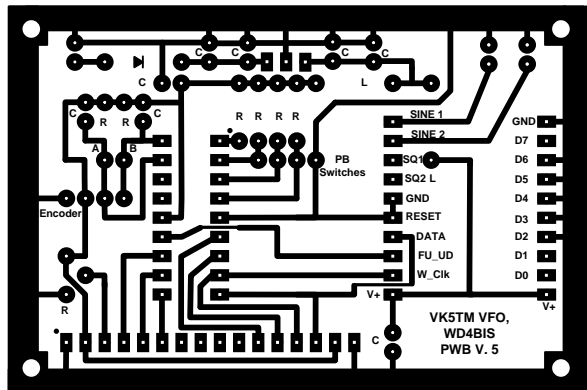
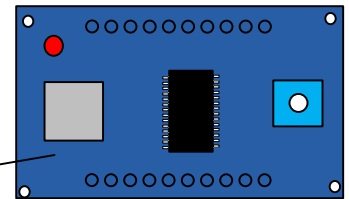
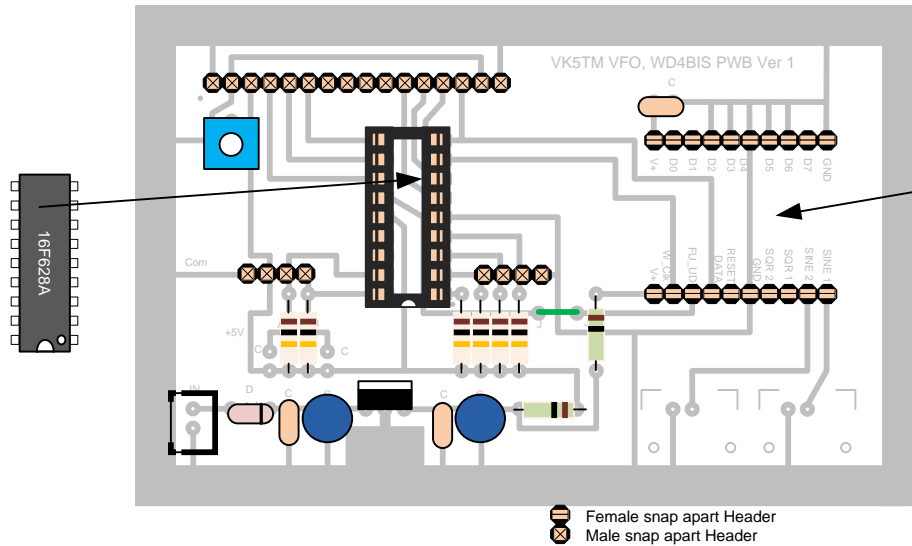
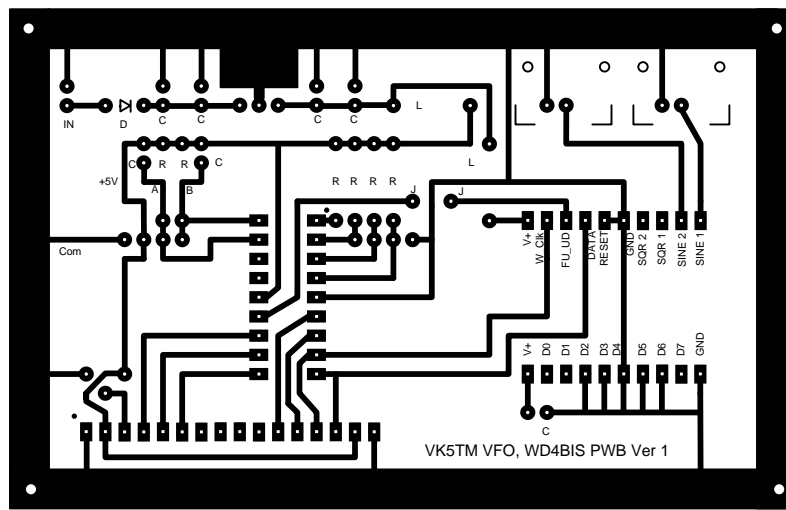


vk5tm@internode.on.net

Date:	Revision/Addition/ Note	By:
July 27, 2017	Initial Drawing, Version 2. The second prototype breadboard was smaller and the LCD display was smaller.	GSC
July 27, 2017	Mounting plates, going to mount device between 2, 5"x5" plates of plexiglass with 1" spacers, #8 threads. #8 clearance hole, #16 drill .1770"	GSC
July 30, 2017	Had to move switch holes to clear the LCD Display PCB.	GSC
July 30, 2017	Positioned then mounted the main PCB to bottom plate with tape then drilled the mounting holes through board mounting holes into Plexiglass	GSC

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.5"x.5"

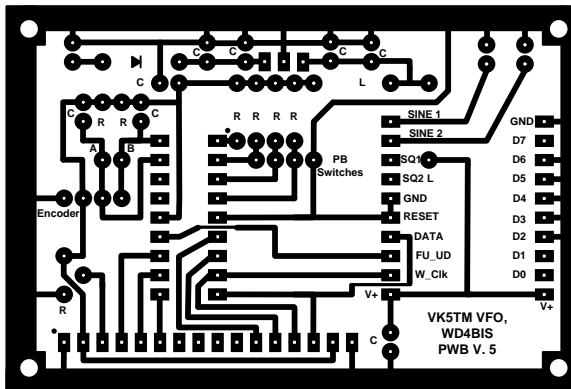
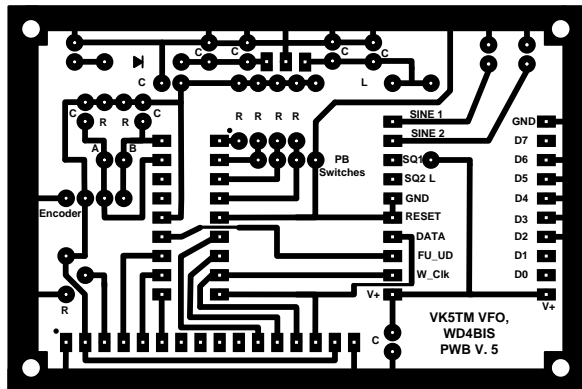
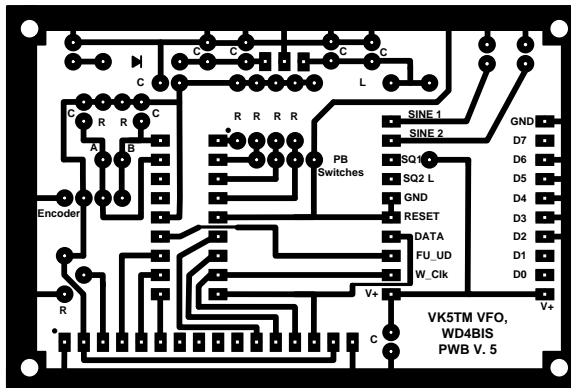
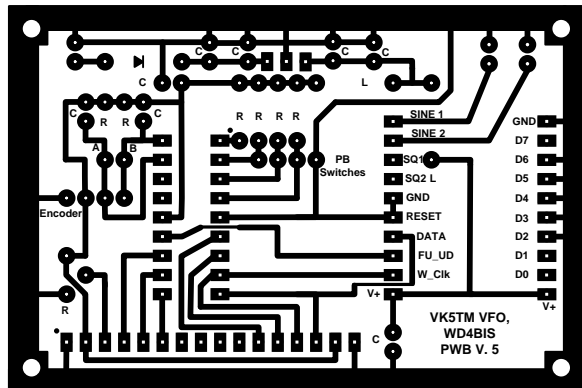
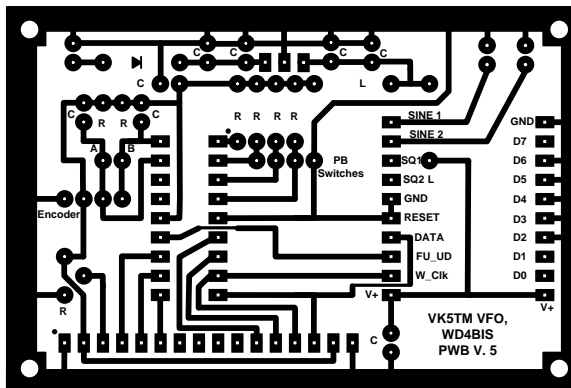
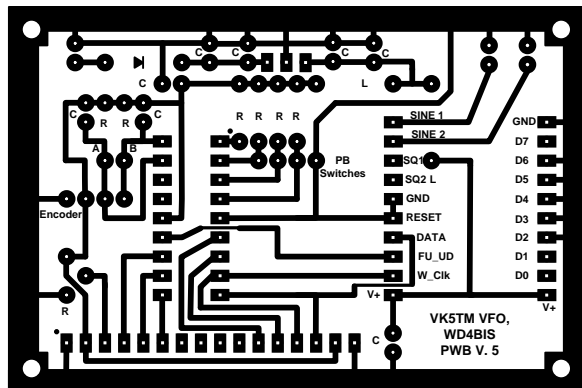
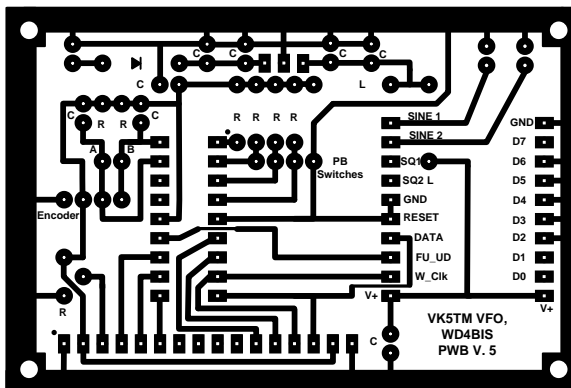
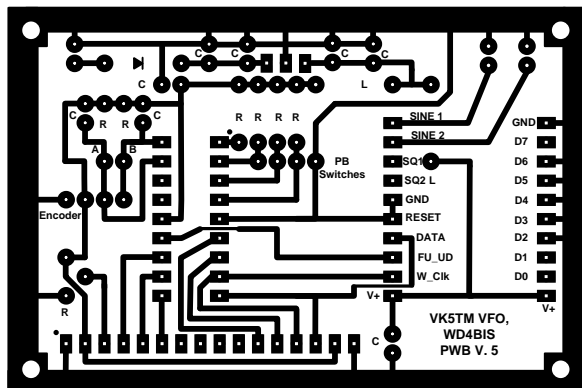
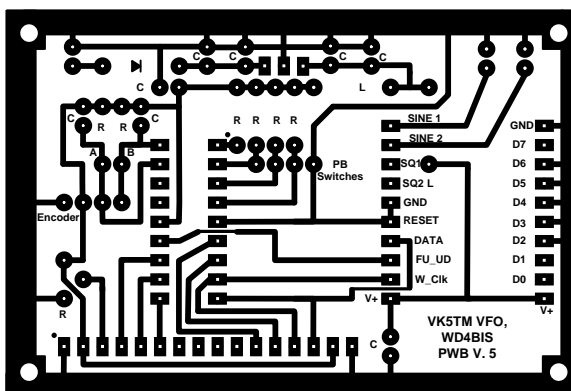
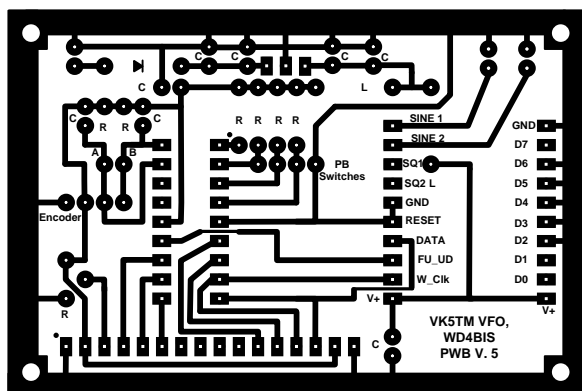
Drawn By: Gerald Crenshaw WD4BIS	Date: July 27, 2017	From the bench of: Amateur Radio Station WD4BIS	Page 1 of 1
Designed By: Gerald Crenshaw WD4BIS	Date: July 27, 2017	Title: V2. VK5TM DDS VFO Mounting plates	Scale:
Checked By: Janet Crenshaw WB9ZPH	Date: July 27, 2017		



Date:	Revision/Addition/ Note	By:
Sept 19, 2017	Component Placement for Version 1 and 5 PWB	GSC

Drawn By: Gerald Crenshaw WD4BIS	Date: Sept 19, 2017	From the bench of: Amateur Radio Station WD4BIS	Page of 1 1
Designed By: Gerald Crenshaw WD4BIS	Date: Sept 19, 2017	Title: PCB Component Placement VK5TM DDS VFO	Scale:
Checked By: Janet Crenshaw WB9ZPH	Date: Sept 19, 2017		

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.5"x.5"



Print to HP Laserjet P3005,  
Single sheet feed  
Shiny side up, Staples basic  
photo stock paper.  
Properties, Finishing, Mirror  
Image.  
Paper/Quality Pro Res 1200 DPI

Heat press, 400 degrees for  
240 seconds. (4 min.)