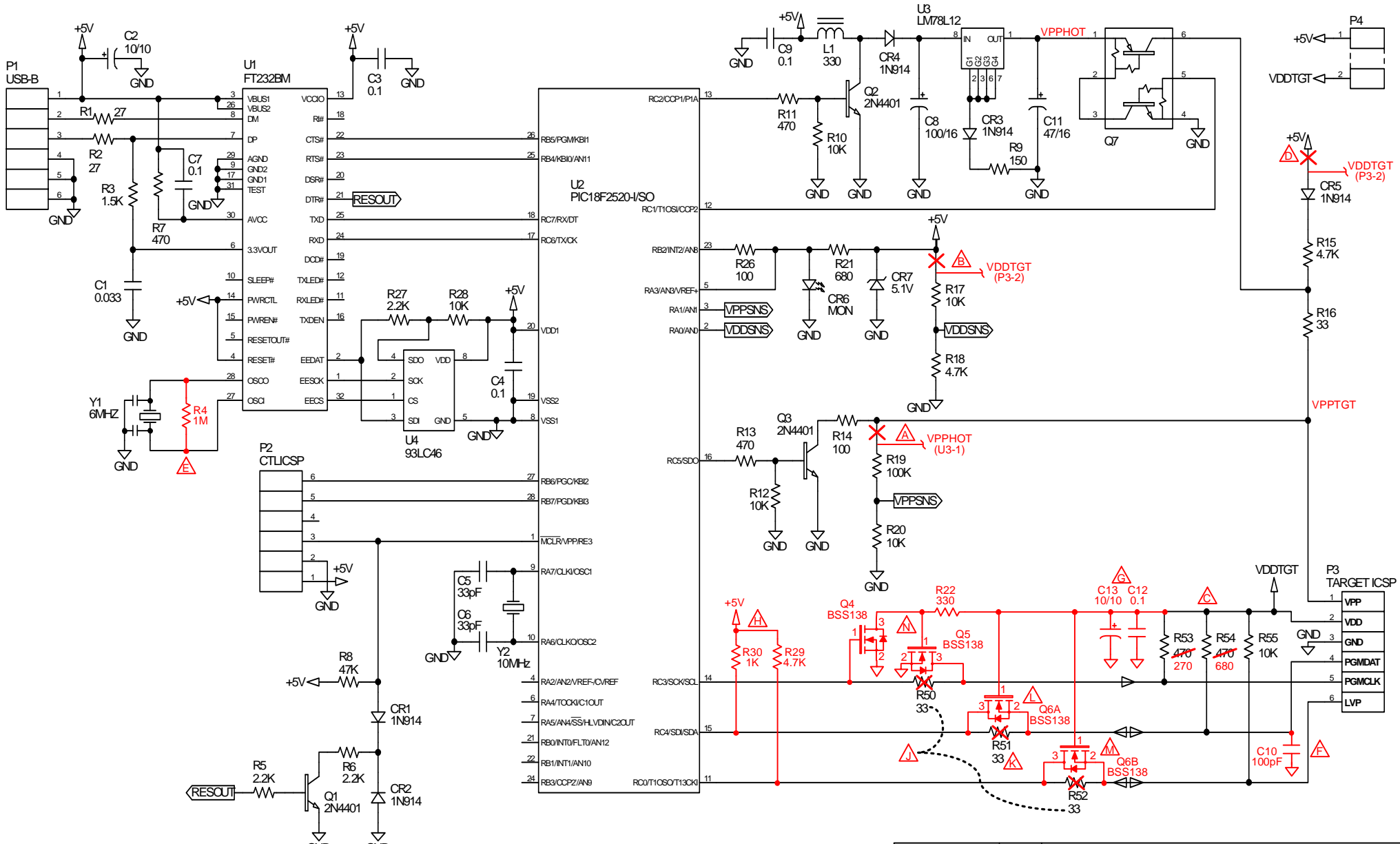


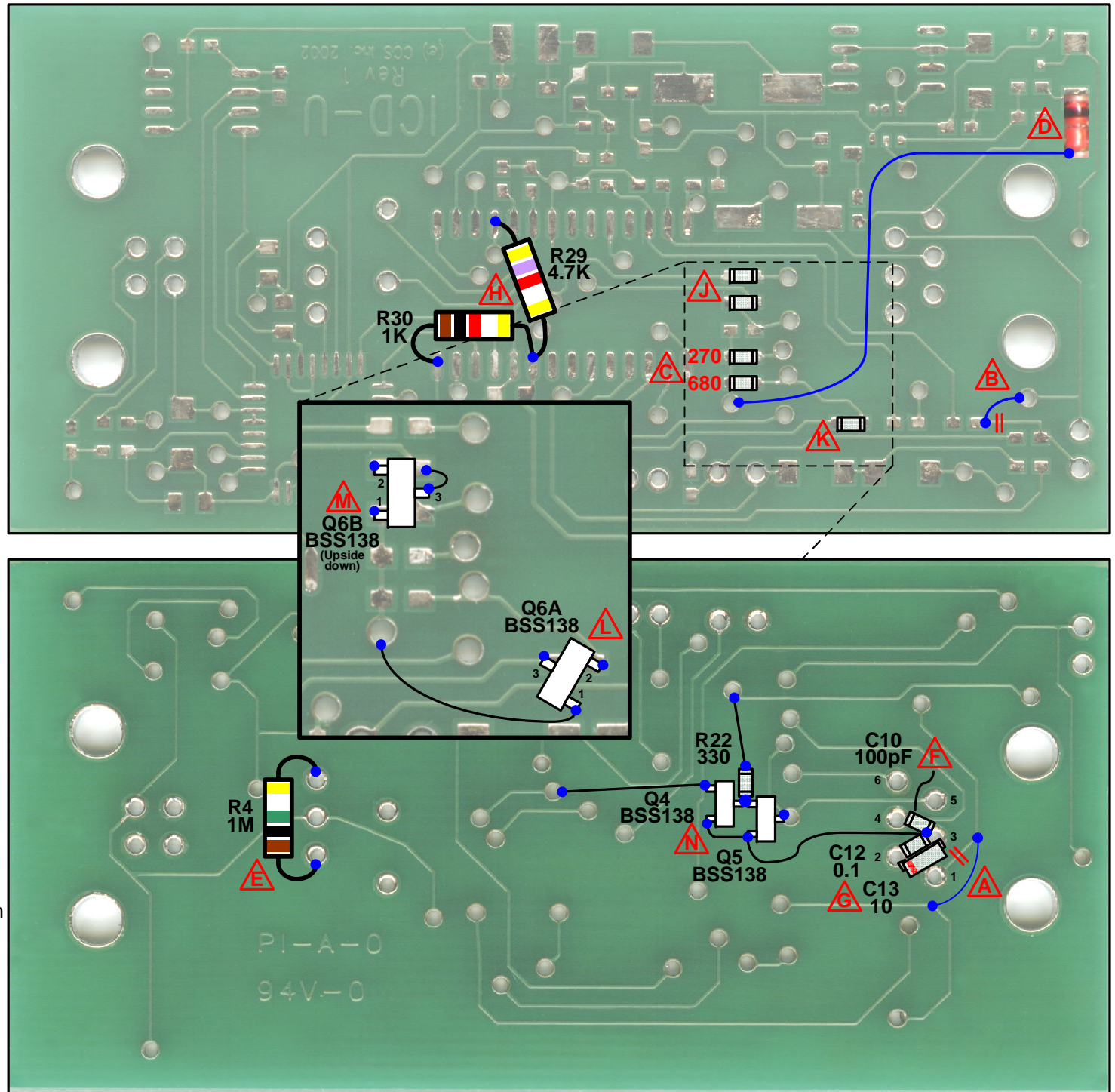
REVISION HISTORY			
REV	DESCRIPTION	APPROVED	DATE



APPROVALS		DATE	TITLE	
DRAWN	J TAYLOR	08/19/09	ICD-U40 Revision 1-to-5 hardware Upgrade instructions	
CHECKED				
ENGINEER				
PROJ/ENGINEER			SIZE	FSCM NO.
APPROVED			B	1390_Rev1-to-5.DSN
QA			SCALE	NONE
			© 2009 TES	MODIFIED: 01/08/10 5:12:24PM
			SHEET	1 OF 1

ICD-U40 VERSION 1 TO VERSION 5 HARDWARE CONVERSION WIRING

- A** Cut track as shown and jumper. Reroutes R19 from VPPTGT to VPPHOT.
- B** Cut track as shown and jumper. Reroutes R17 from +5V to VDDTGT.
- C** Change R53 to 270 ohms and R54 to 680 ohms.
- D** Flip CR5 around and wire anode to via at R54. Connects pull up diode to via at R54 (VDDTGT).
- E** Connect 1M R4 feedback resistor accross Y1 crystal.
- F** Add 100pF C10 capacitor from P3-4 to P3-3 (Remove any part that is already here).
- G** Add 10uF C13 and 0.1uF C12 from P3-2 to P3-3. If C13 is tantalum, P3-2="+".
- H** Add 1K R30 and 4.7K R29 from U2-15 and U2-11 to +5V respectively. Mount on top of U2.
- J** Remove R50 and R52.
- K** Remove R51.
- L** Mount Q6A over pads of R51 and jumper pin 1 to via at R54 (VDDTGT)
- M** Mount Q6B (Upside down) over pads of R52 and R55. Jumper pin 3 to free side of R52 (U2-11).
- N** Mount Q4, Q5 and R22 as shown. Jumper Q4-1 to via at left (U2-14) and R22 to via above (VDDTGT). Jumper Q4-2 and Q5 2 to P3-3 (Ground)



ICD-U40 VERSION 1 HARDWARE

