XG2 TEST OSCILLATOR MANUAL ERRATA

Rev E-4, June 5, 2009

THE FOLLOWING CHANGES TO THE XG2 MANUAL MUST BE MADE BEFORE PROCEDING, OR THE XG2 MODULE WILL NOT FUNCTION CORRECTLY

1. Page 1 ONLY, Parts Inventory: This section of the parts list, which includes the new value for R8, replaces the one in the manual on page 1: (You can cut this out and pasted it in the manual after incorporating the changes on the reverse side of this errata page).

Ref	Qty	Description	Part #
R2	1	Res, 18.7 k 1% (brn, gry, vio, red, brn)	E500127
R3	1	Res, 16.5 Ω 1% (brn, blu, grn, gold, brn)	E500122
R4	1	Res, 348 Ω 1% (org, yel, gry, blk, brn)	E500123
R5	1	Res, 57.6 Ω 1% (grn, vio, blu, gold, brn)	E500124
R6, R7	2	Res, 52.3 Ω 1% (grn, red, org, gold, brn)	E500125
R8	1	Res, 1.24 k 1% (brn, red, yel, brn, brn)	E500126

- 2. Page 2, Description for U1: add "or ZXRE1004D".
- 3. Page 3, steps 1 and 2: Please replace the existing steps with the following:

Assembly

	Sort the resistors by value. Some of the color bands may be hard to read; use a magnifying glass if necessary. A Digital Multimeter (DMM) should be used to confirm the values. Orient the printed circuit board with the silk-screened side up and the title "XG2" at the bottom. Install the following resistors in their indicated positions, starting at the top of the PC board and working down. (Complete the left column, below, then the right column.) Note: The XG2's output level accuracy depends on each resistor being installed in the correct location.		
-	_ R7, 52.3 Ω, 1% (grn, red, org, gold, brn) _ R8, 1.24 k, 1% (brn, red, yel, brn, brn) _ R6, 52.3 Ω, 1% (grn, red, org, gold, brn) _ R5, 57.6 Ω, 1% (grn, vio, blu, gold, brn) _ R4, 348 Ω, 1% (org, yel, gry, blk, brn) _ R7, 16.5 Ω, 1% (brn, blu, grn, gold, brn) _ R2, 18.7 k, 1% (brn, gray, vio, red, brn) _ R1, 10 k, 5% (brn, blk, org) _ R9, 10 k, 5% (brn, blk, org) _ R13, 5.6k 5% (grn, blu, red)		
4.	Page 3, step 5 (begins with "Install diodes D1 and D4") delete the step and replace it with the following two steps:		
	Install diode D1 (1N4148) with the banded end nearest resistor R7. NOTE: The silk-screened outline and band on the Rev A board is backwards!		
	Install diode D4 (1N4148). The outline for this diode is correct. Align the banded end with the band on the silk-screened outline. The band will be at the end nearest the edge of the board.		

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5. Page 6, "Signal-to-Noise And MDS Calculations": In the example of DMM readings, each step is supposed to perform a new calculation on the result of the previous step. Please make the changes to the following calculations and this will become apparent:

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Change step "B" from "log(30) = 1.52" to "log(33) = 1.52".
Change step "C" from "20 \times 1.48 = about 30 dB..." to "20 \times 1.52 = about 30 dB...".
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6. Page 8, Schematic: The battery is shown backwards (normally the schematic symbol for a battery indicates the negative terminal with the shorter line). To avoid confusion, place a plus sign, + at the end of the battery that connects to R9 and D4.