

LOMBARDI MIC #4 INPUT TRANSFORMER DATA

FREQ	MIXER OUTPUT	INPUT Z	XFMR FREQ RESP
20Hz	-30.3dB	565 ohms	-28.0dB
30Hz	-25.3dB	783 ohms	-24.0dB
50Hz	-20.4dB	1.23k	-19.7dB
80Hz	-18.7dB	1.84k	-15.5dB
100Hz	-17.5dB	2.25k	-13.8dB
150Hz	-14.1dB	3.21k	-10.6dB
200Hz	-11.3dB	3.89k	-8.4dB
300Hz	-7.8dB	3.89k	-5.4dB
500Hz	-3.5dB	2.79k	-2.3dB
700Hz	-1.5dB	2.24k	-1.0dB
1kHz	0dB	1.83k	0dB
2kHz	+1.5dB	1.22k	+0.9dB
5kHz	+4.1dB	543 ohms	+1.4dB
7kHz	+5.7dB	378 ohms	+1.5dB
10kHz	+7.0dB	250 ohms	+1.5dB
15kHz	+7.3dB	163 ohms	+1.2dB
20kHz	+7.4dB	133 ohms	-0.22dB

This Input Transformer appears to have been damaged some how, it having no LF response, and the input impedance is vastly different from the other seven xfms.

Bruel & Kjaer 1027 Sine/Random Generator used as source. 2 ohm source impedance. Nominal signal output level 50mV, output fed thru ESI Decade Box, inserting series resistance, adjusted to equal the xfmr input impedance. Using a Fluke 8060A in AC RMS mode, REL dB, Decade box adjusted for -6.00dB to yield Xfmr input Impedance. 0dB level was set with decade box set to 0 ohms. Second Fluke DMM in RMS mode, REL dB placed across Xfmr Secondary (at Preamp Input terminals). That yielded Xfmr Frequency Response. The Mixer Output was taken from the Line Output, Mixer adjusted to 0VU on it's meter, and sent to the Amber 3501a Audio Analyzer, 1V input range, REL mode to set 0dBV. Mixer Output response recorded to add to the Xfmr data for reference.

Data recorded at each frequency. Mixer Channel 7 was selected, with EQ controls set to 0dB panel markings.