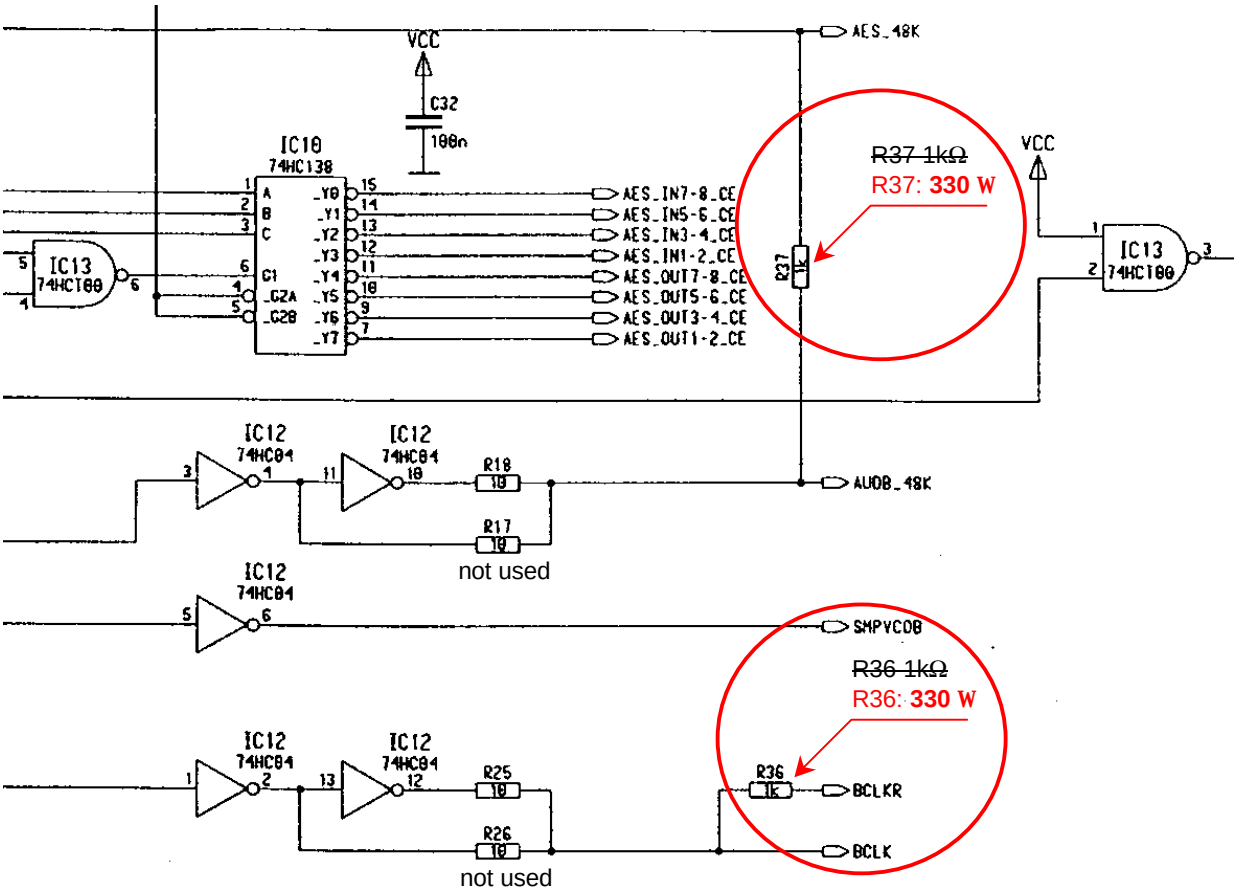
AES/EBU Interface Causes Pops and Clicks

Problem:

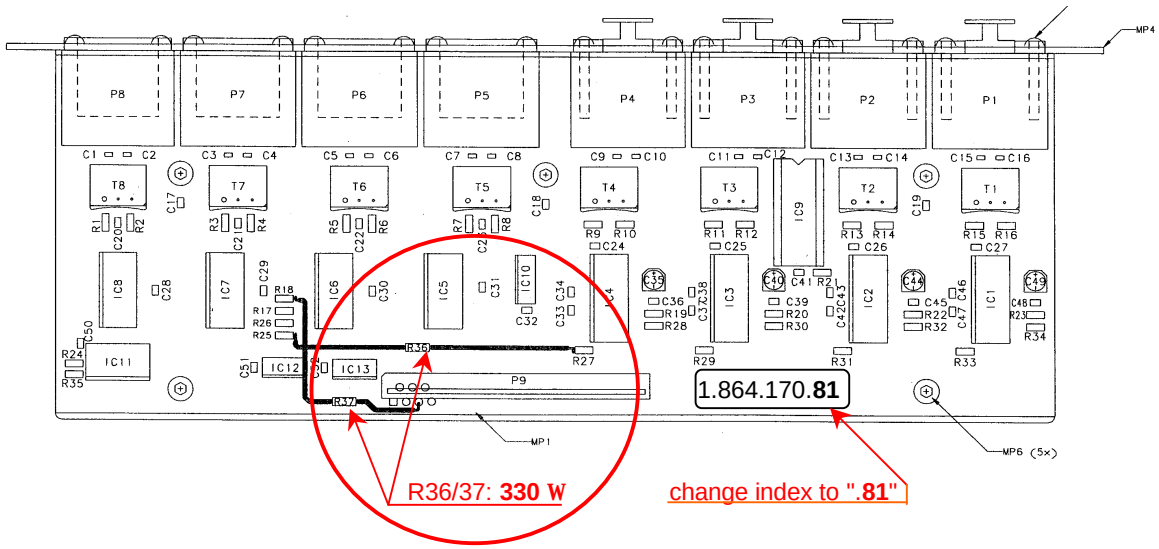
The optional AES/EBU interface **1.864.170.00** can exhibit clicks, pops or other audible noise when used in a machine configured as slave. The interface in the master machine always operates correctly. The phenomenon frequently occurs with the last unit in a chain of, say, three units linked for use as a 24-channel machine. The following procedure completely solves the problem. It is recommended that all available interfaces should be modified.

Solution:

1. *Separate the unit from the mains supply.* Remove the AES/EBU interface completely. It is accessed from the top of the machine. Remove the unit's top cover (6 Allen-head screws).
2. The AES/EBU interface is now freely accessible and can be removed by unscrewing the four screws (Allen key no. 2) from the rear. Carefully unplug the flat cable on the AES/EBU interface. Both free-wired resistors R36 and R37 (1 kΩ each) must be replaced by 330 Ω (57.10.1331), which results in improved fall and rise times of the chip clock. Modify the label 1.864.170.**00** to 1.864.170.**81** by hand, e.g. with a permanent marker; this is important for later identification of the assembly.



AES/EBU Interface 1.864.170.00 diagram, partial view. After modification, the assembly is called 1.864.170.81 (i.e., modification index "81").



Position of resistors R36 and R37 on AES/EBU Interface Board 1.864.170.00

3. The board can now be inserted and connected again. No adjustments are necessary. Perform a function test, i.e., check the AES/EBU input and output by recording and playing back a short session. Reinstall the top cover.

Spare parts

Item	Position	Order Number
Resistor 330 Ω	R36	57.10.1331
Resistor 330 Ω	R37	57.10.1331