COLECO ADAM C88
7-PIN DIN AUDIO BALANCE FIX

SUBJECT: USERS WILL EXPERIENCE UNBALANCED AUDIO AT THE 7-PIN DIN WHILE USING EXTERNAL I/O EXPANSION DEVICES THAT GENERATE SOUND
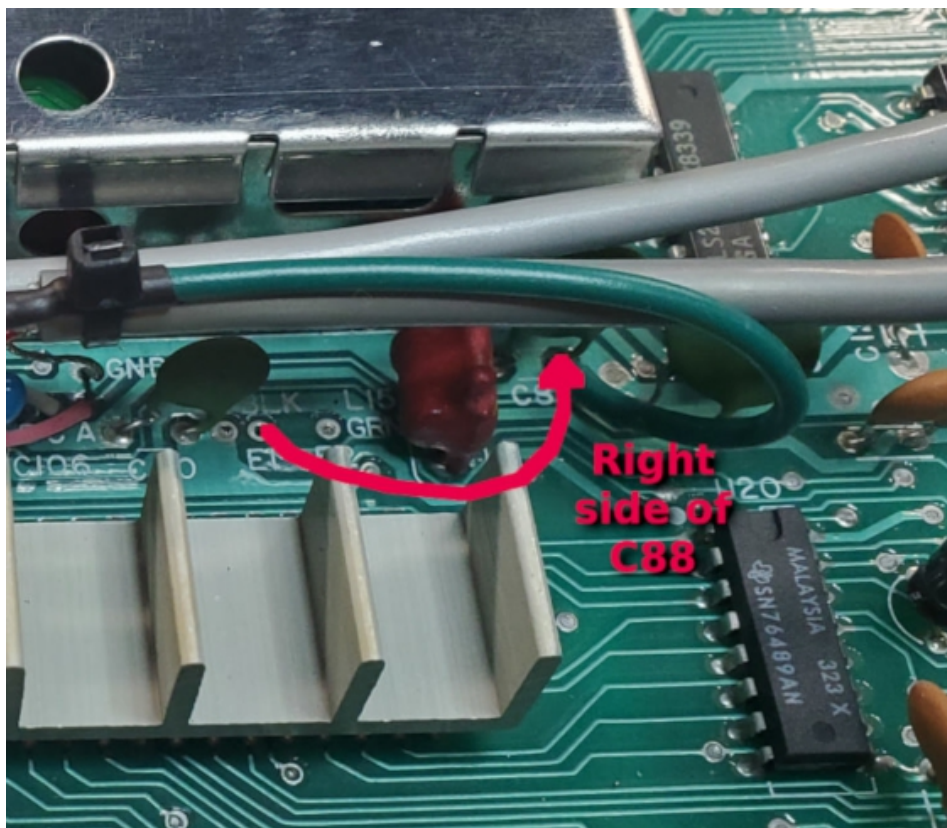
AFFECTED PRODUCT: ALL COLECO ADAM UNITS

ISSUE DESCRIPTION:

A design flaw has the audio connection source to the 7-Pin DIN incorrectly placed. The standard E1 connection by Coleco is connected to the wrong side of R18 (1.8K). This incorrect position has the ADAM and I/O expansion audio sources on opposite ends of the resistor and therefore causing the unbalanced audio. This flaw is especially noticeable while using the Super Game Module (SGM).

CORRECTIVE ACTION:

To correct this issue, the audio source E1 needs to be moved. Since R18 is under the RF Module, the same connection can also be made by moving the E1 wire to the right side of the easier to reach C88.

EVEN MORE IMPROVEMENT:

Optionally, for even better sound, Coleco also failed to add the appropriate .1uF capacitor for blocking DC level component in the audio line as well. They do have this correct to the RF board through C100, but the audio to the 7-Pin DIN does not have a capacitor to compensate for this. It is recommended to add an additional .1uF capacitor in-line with the audio wire from the new C88 position to the 7-Pin DIN.