**C64 A/V-Adapter Rev. 2**

**Testing v2.0**

# Introduction

The test was conducted with a prototype of the A/V-Adapter Rev. 2. For the electrical/functional tests a C64G was used.

# Tests

## Assembly

The prototype was assembled, all footprints worked out. The DIN plug was assembled using the spacer, which was cut off the PCB. This worked well, too.

## Mechanical fitting

The A/V-Adaptor was installed on a classic bread bin and a C64C. Both case versions work well with the prototype. It is required to install the DIN plug with a distance to the bottom side of the PCB to get deep enough into the video jack of the C64 to obtain a stabile seating.

## Functional testing

The A/V-adaptor was connected to the C64 and a software was loaded. The jumpers were set to

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| --- | --- |
| **Jumper** | **Setting** |
| JP1 (Chroma Hi) | Open (=330R resistor not bridged) |
| JP2 (Audio in) | Off (audio in → GND) |
| JP3 (mono/stereo) | Mono (both audio channels connected to J2, Pin 3) |

|  |  |  |
| --- | --- | --- |
| **Test** | **Result** | **Testing** |
| S-Video cable connected | The displayed image was clear and not distorted | Ok |
| Audio cable | Both speakers had a clear audio output (mono) | Ok |
| Composite video | The displayed image was clear and not distorted | Ok |
| Audio input (JP2 → on) | The audio signal connected was passed through the filter. | Ok |
| Stereo mode | Multimeter: ok | Ok |
| Chroma high (s-video), 330R resistor bridged | The quality of the displayed imaged changed. The colors got stronger and slightly distorted. This was expected. | Ok |

The stereo mode was tested with a multimeter only.

## Testing of the 5-pin Version

The version for ASSY326298 was tested in an 8-pin C64. Composite video and the Audio outputs were connected to the Framemeister XRGB mini, the “VIDEO” input was selected. A picture of expected quality was shown, the sound was audible.

The version for VIC-20 was inserted into a VIC-20. Composite video and the Audio outputs were connected to the Framemeister XRGB mini, the “VIDEO” input was selected. A picture of expected quality was shown, the sound was audible.

## 3D-printed cases

After trimming the solder pins of the RCA jacks, all three versions of the board fit into the bottom shell. The respective top shells could be installed and fit well. The decals (labels) fit on the top shell.   
  
The A/V-Adaptors passed a drop test (a drop of 1m on a table top).

# Test Result

The A/V-Adapter Rev. 2 is fully functional.