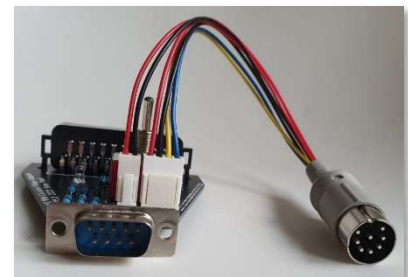# Commodore 128 40/80 Column Video Adapter

Thank you for purchasing my Commodore 128 40/80 Color Video Adapter.
This adapter will allow you to display the 40 column output and 80 column output
on a regular TV via the scart interface.

Connect the adapter to your Commodore 128, the connectors on you Commodore 128
40/80 Column Video Adapter will fit on only one specific connector of your
Commodore 128, you cannot go wrong without applying excessive force or breaking
something.

Your Commodore 128 can boot in either 40 column, or 80 column mode. This can be
achieved by pressing the "40/80 display" key on your computer. After a reset or
power-on your computer will start in the
selected mode.

Pressed for 80 column as start-up default.
Depressed for 40 column as start-up default.

In order to have the correct display shown on your TV, you will
need to select the output also on the Commodore 128 40/80 Column
Video Adapter.
This can be done by toggling the switch on the adapter. If the
switch is towards the computer, 40 column mode is selected. If
the switch is facing away from the computer, 80 column mode is
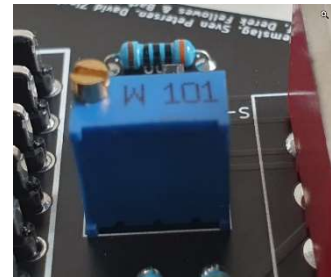selected and a LED will light up.

Some programs may start in a certain mode and will shift to the
other mode during runtime. The Commodore 128 40/80 Column Video
Adapter let's you change display output to your TV on the fly.
You do not need to turn off your TV.

On the V5 and V5.1 versions of the Commodore
128 40/80 Column Video Adapter a secondary
switch is added. This switch lets you select
the output for the 40 column display. Either
Composite (CVBS) or SVideo - Luma/Chroma
(Y/C). Best results are generally achieved
in SVideo mode. But if you use a third party
Scart - HDMI converter, the result is
depending on the quality of the converter.
Results may vary.

A precision potentiometer is also placed on the PCB (Print Circuit Board). It is used to limit the current that is being used to let your TV display the 80 column mode correctly in color. Without this current your TV will display the 80 column in monochrome (black and white, no greys). Generally speaking this potentiometer is set correctly and should be left alone. If for some reason you TV does not display the 80 column output in color, check your scart cable and/or your Scart-HDMI converter if this is being used in your setup. If your output still isn't in color, please contact your reseller.

Commodore 128D (Plastic case)

Commodore 128

Commodore 128Dcr (Metal case)

Universal Top Cover for V5 and V5.1 models

3D printable housings are also available for your adapter. You can print these yourself, the .STL files can be found on www.thingiverse.com (https://www.thingiverse.com/thing:4724295)

In order for you Commodore 128 40/80 Column Video Adapter to fit in the housing, the 40 cable needs to be detached. You can just pull it out of the socket.
Place the PCB (Print Circuit Board) into the top shell and secure it into place by clicking the bottom part into the top part. This may require a little force. Next secure the cable in their sockets. You cannot place the cables wrongfully without using excessive force or breaking something.
Opening the case is in reverse order of closing it.