Video Adapter Diagrams

by Adam Levin-Delson

All Amigas have a video connector which supplies RGB output in both analog and digital formats. This allows the Amiga to use many different types of monitors. Besides this standard Amiga video connector, the A3000 (and A3000T) have a ‘‘Video Display Enhancer’’ (VDE) connector which supplies an analog RGB signal at up to twice the bandwidth of the standard Amiga port.

Commodore sells a number of monitors which have cables that allow you to connect them to the Amiga. Other manufacturers sell monitors that will work with an Amiga, but many of these monitors are not pin-compatible with the Amiga. This can be remedied by buying or building an adapter which either reconfigures the wiring or adds the necessary circuitry between the computer and monitor. This article contains the wiring diagrams for those adapters.

Warning

Though these instructions are fairly simple, if not done properly, it is possible to damage both your computer and your video monitor, so Commodore does not recommend that you build these yourself. If you are not proficient with the tools, parts, or procedures involved in making these adapters, you should purchase them in completed form (Commodore part numbers are provided later). This information is provided for your convenience and is expressly subject to the disclaimer and warnings found at the beginning of this publication.

Construction Tips

Keep wires as short as possible to limit interference.

Female 23-pin connectors can be kludged from female 25-pin connectors with a little patience and a little hacksaw. Male 23-pin connectors can be kludged from male 25-pin connectors by pulling a couple of pins.

Radio Shack’s D-sub hoods (part numbers 276-15xx) make ideal adapter housings, especially where additional circuitry is required.

15-Pin Male D-Sub to 9 Pin Female D-Sub Analog Adapter

This adapter connects the A3000's VDE connector to a 15/31kHz analog-RGB monitor with a 9-pin connector. Commodore does not currently offer this adapter.

Alternatively, reverse the gender of both ends to connect a 15-pin, multi-scan analog-RGB monitor to a computer's 9-pin analog-RGB connector (non-Amiga). This adapter is available from Commodore as part #390683-01.

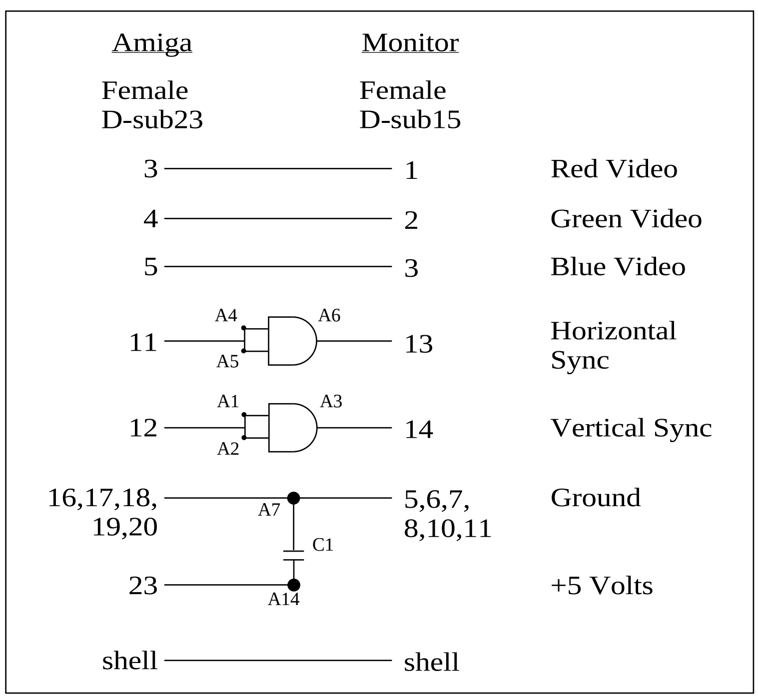
Amiga Male D-sub15	Monitor Female D-sub9	
1	1	Red Video
2	2	Green Video
3	3	Blue Video
5,10,11	9	Gound
6	6	Red Video ground
7	7	Green Video ground
8	8	Blue Video ground
13	4	Horizontal Sync
14	5	Vertical Sync
shell	shell	

23-Pin Female D-Sub to 15 Pin Female D-Sub Analog Adapter

This adapter connects the Amiga's standard RGB connector to a 15/31kHz analog-RGB monitor with a 15-pin connector.

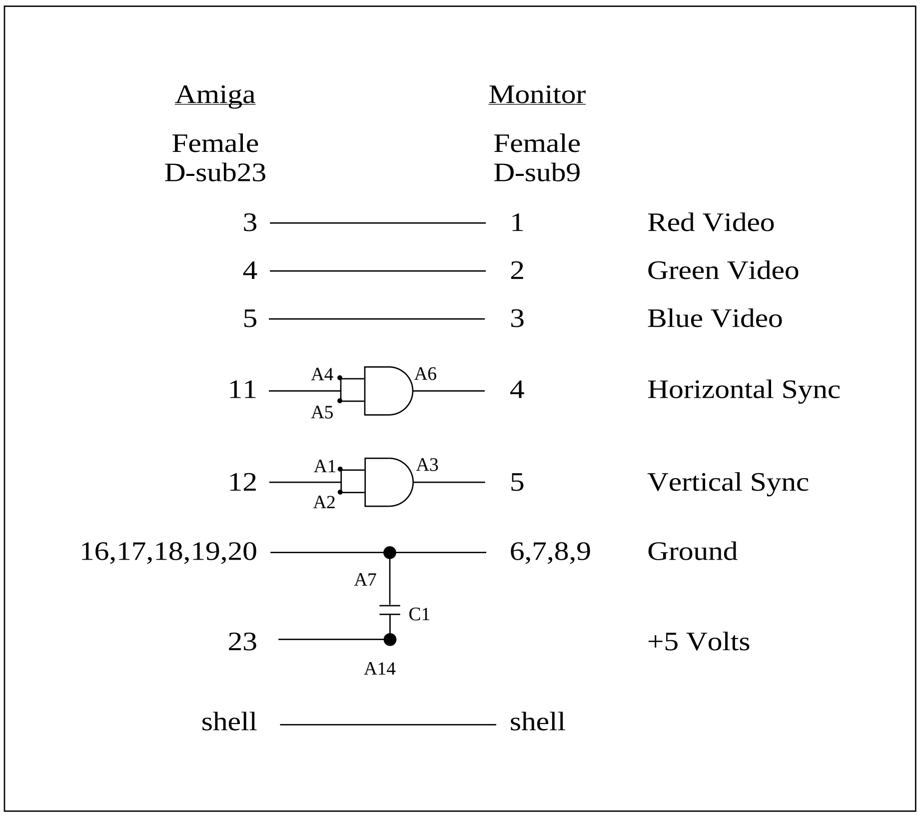
This adapter is available from Commodore as part #390682-01.

A1-A14 are pins 1-14 of a 74HCT08 (dual-input AND gate) IC chip. C1 is a .01uf 50V ceramic capacitor.



23-Pin Female D-Sub to 9 Pin Female D-Sub Analog Adapter

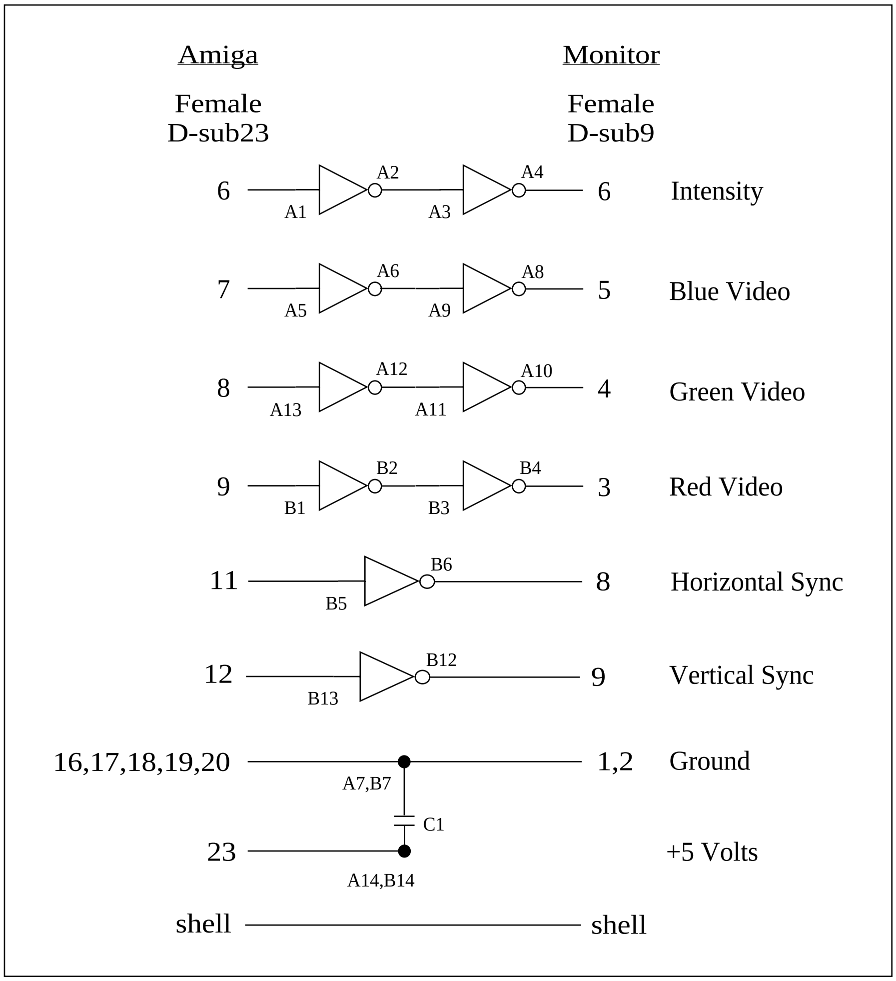
This adapter connects the Amiga's standard RGB connector to a 15kHz analog-RGB monitor with a 9-pin connector.



A1-A14 are pins 1-14 of a 74HCT08 (dual-input AND gate) IC chip. C1 is a .01uf 50V ceramic capacitor.

23-Pin Female D-Sub to 9 Pin Female D-Sub Digital Adapter

This adapter connects the Amiga's standard RGB connector to a 15kHz digital-RGB video monitor with a 9-pin connector.



A1-A14 are pins 1-14 of a 74LS04 (hex inverter) IC chip. B1-B14 are pins 1-14 of another 74LS04 IC chip. C1 is a .1uf 16V ceramic capacitor.