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"AN INTERACTIVE HOME
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TO: Bally Arcade computer users.

An add-on circuit which improves the audio and video signals, optimizing for recording and/or transmission.

This add-on circuit gives the computer user a line level audio signal output and a composite video signal output. It is a lowest-possible-cost solution to a highest-possible-quality goal.

This add-on circuit was designed and prototyped by Dan Sandin; copied and documented by Phil Morton. For assistance contact Phil at (312) 666-5628, Chicago, Illinois.

For Bally Arcade computer users who are not connected into the ongoing Sandin IMAGE PROCESSOR cybernet, you probably should simply collect the parts (see PARTS LIST) and wire-wrap this circuit.

The following circuit diagram and 2X printed circuit board pictorial can be directly copied by Sandin IMAGE PROCESSOR builders using parts already on hand. The circuit is a slight variation on the "standard driver" used so frequently through-out the IP. We used 1/4 of a #217 board to build the circuit on.

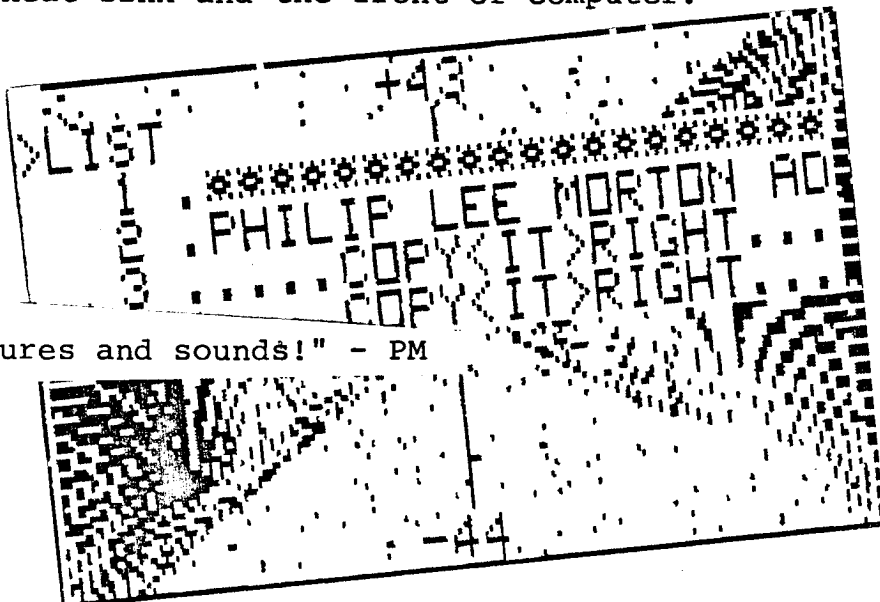
You can do a "neat" job by using either chassis-mount connectors, mounting them in the top plastic "fin", or cable-mount connectors by enlarging the RF Cable hole to run the audio and video cables out. We got away with using RG 174/U (coax) for both audio and video.

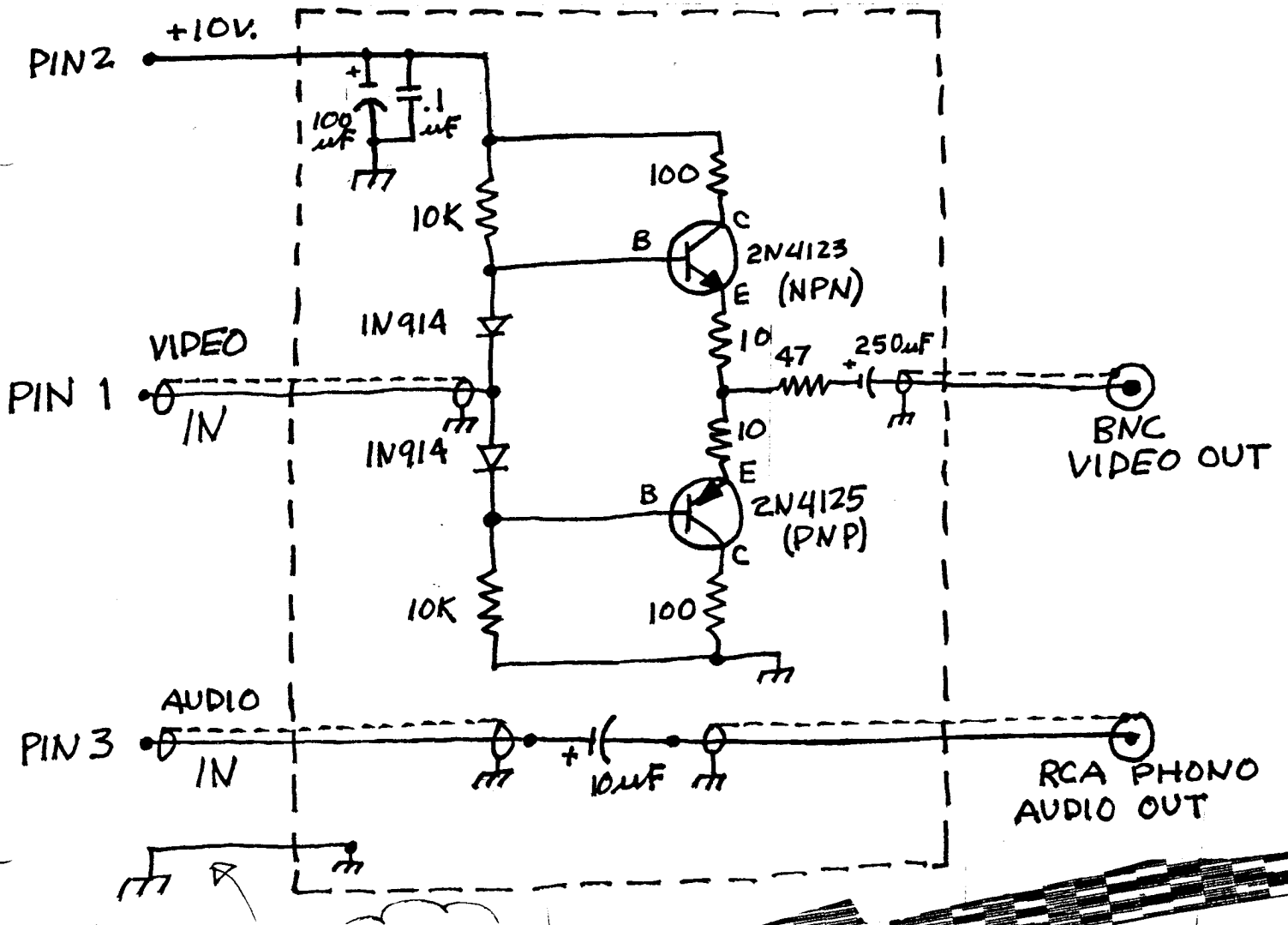
If you remove the RF Modulator from your computer then the BNC video out will deliver black-and-white composite video only; no color. This may be desirable for special applications which assume colorizing "down stream" in time.

Remove the five phillips-head screws on the bottom of the computer; the top plastic will now come off. Pull the RF Modulator off the 8 pin connector; solder to pins #1(video), #2(+10 volts), #3(audio). Pin #1 is closest to the heat sink and the front of computer.

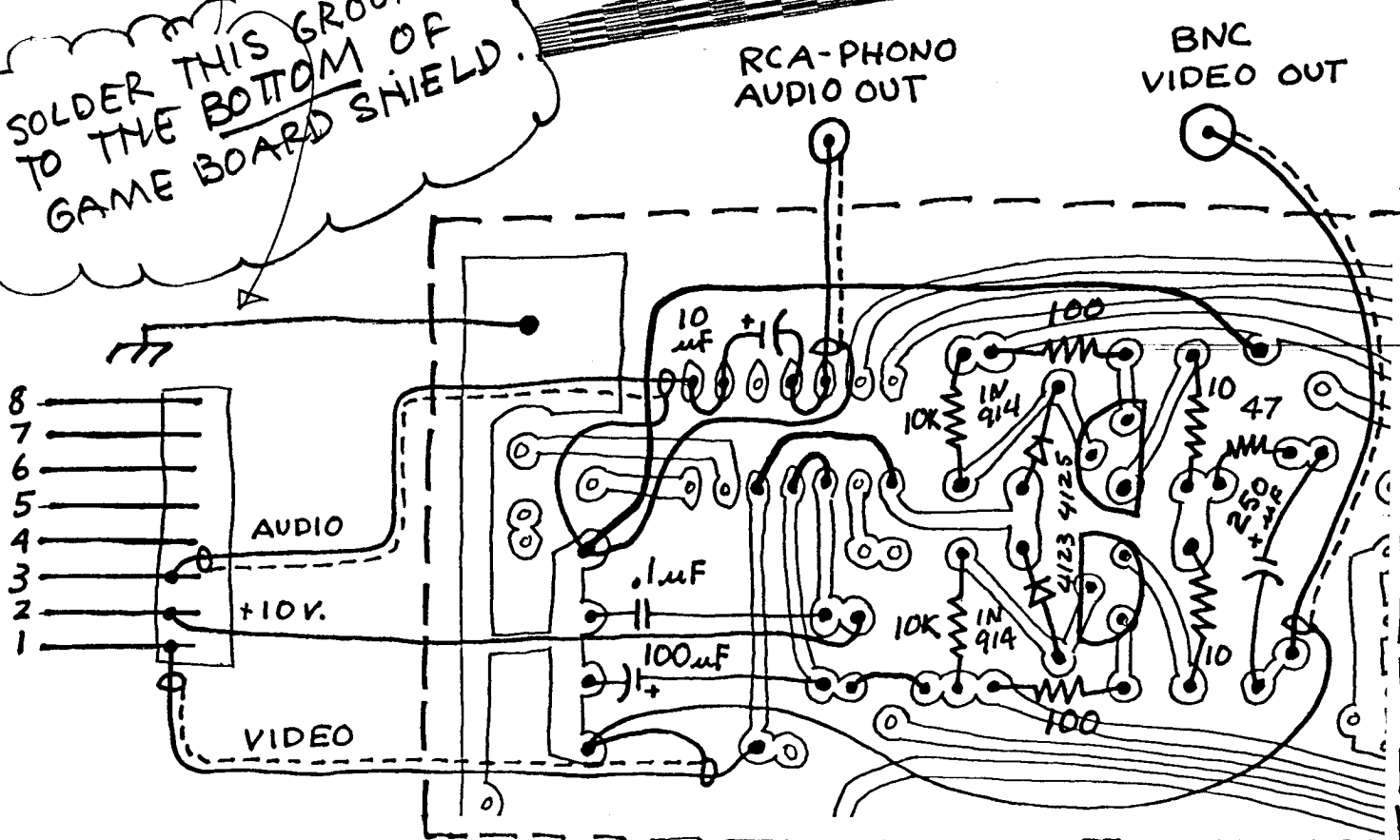
- Pin #8 = -5 volts
- Pin #7 = B-Y
- Pin #6 = R-Y
- Pin #5 = +2.5 volts
- Pin #4 = Chroma
- Pin #3 = Audio
- Pin #2 = +10 volts
- Pin #1 = Video

"...enjoy your clean pictures and sounds!" - PM





SOLDER THIS GROUND TO THE BOTTOM OF GAME BOARD SHIELD.



PARTS LIST

Resistors:

1 47 Ω 1/4 watt
2 10 Ω 1/4 watt
2 100 Ω 1/4 watt
2 10k Ω 1/4 watt

Capacitors:

1 .1 μ F 50wvdc cer. disc.
1 10 μ F 25wvdc electrolytic
1 100 μ F 25wvdc electrolytic
1 250 μ F 12wvdc electrolytic

Transistors:

1 2N4125 (PNP)
1 2N4123 (NPN)

Diodes:

2 1N914

Wire/cable:

4 feet RG 174/U (coax)
2 feet hook-up, grounding, jumping wire

Connectors:

1 RCA phono-female (chassis or cable mount)
1 BNC video-female (chassis or cable mount)

PC Board:

1/4 of a #217 board (standard driver in IP)

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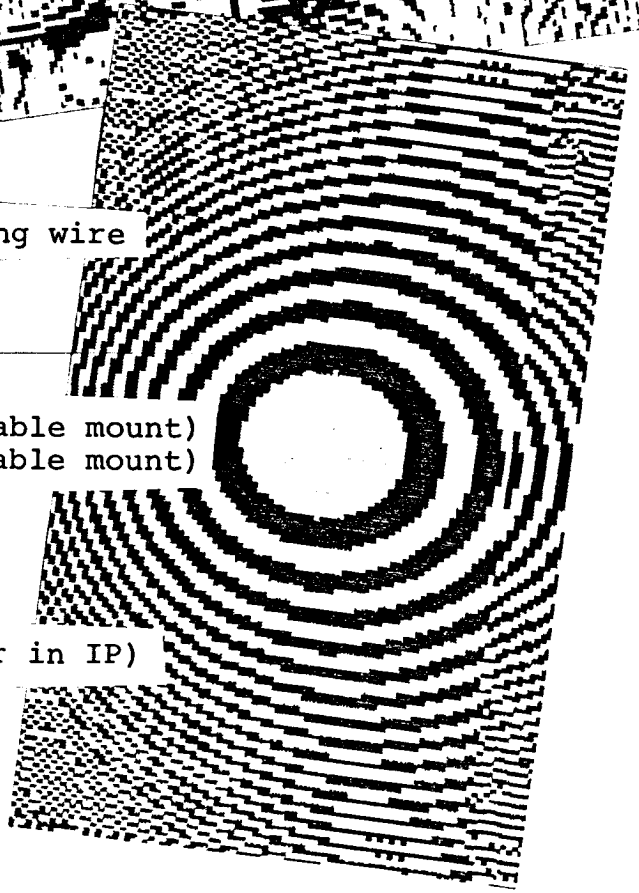
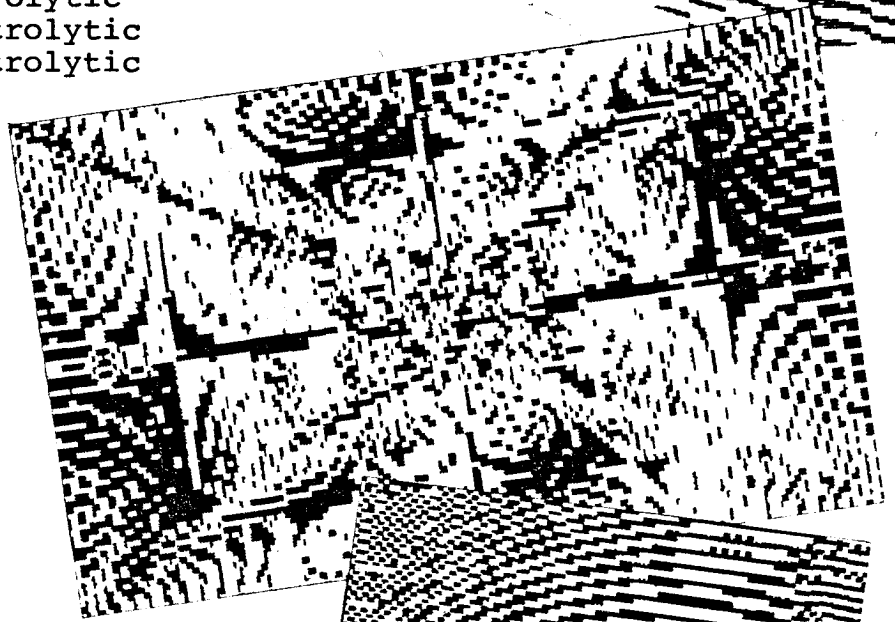




PHOTO: JANE VEEDER ETC