



ADAM Delta DRAM to SRAM Converter Installation Guide



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Rev A. All specifications and included hardware are subject to change.

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With the ADAM Delta PCB completely removed from the case, perform the following steps.

Step One

Desolder and remove all associated decoupling capacitors, inductors, and DRAM. Below is a listing in order on the PCB for easier reference.

- Inductors: L2 and L3 (See **Figure 1**.)
- Decoupling capacitors: C41, C30, C21, C35, C22, C43, C32, C26, C27, C44, C24, C28, C40, C45, C37 (See **Figure 1**.)
- DRAM: U14, U17, U16, U15, U10, U11, U12, U13 (See **Figure 1**.)

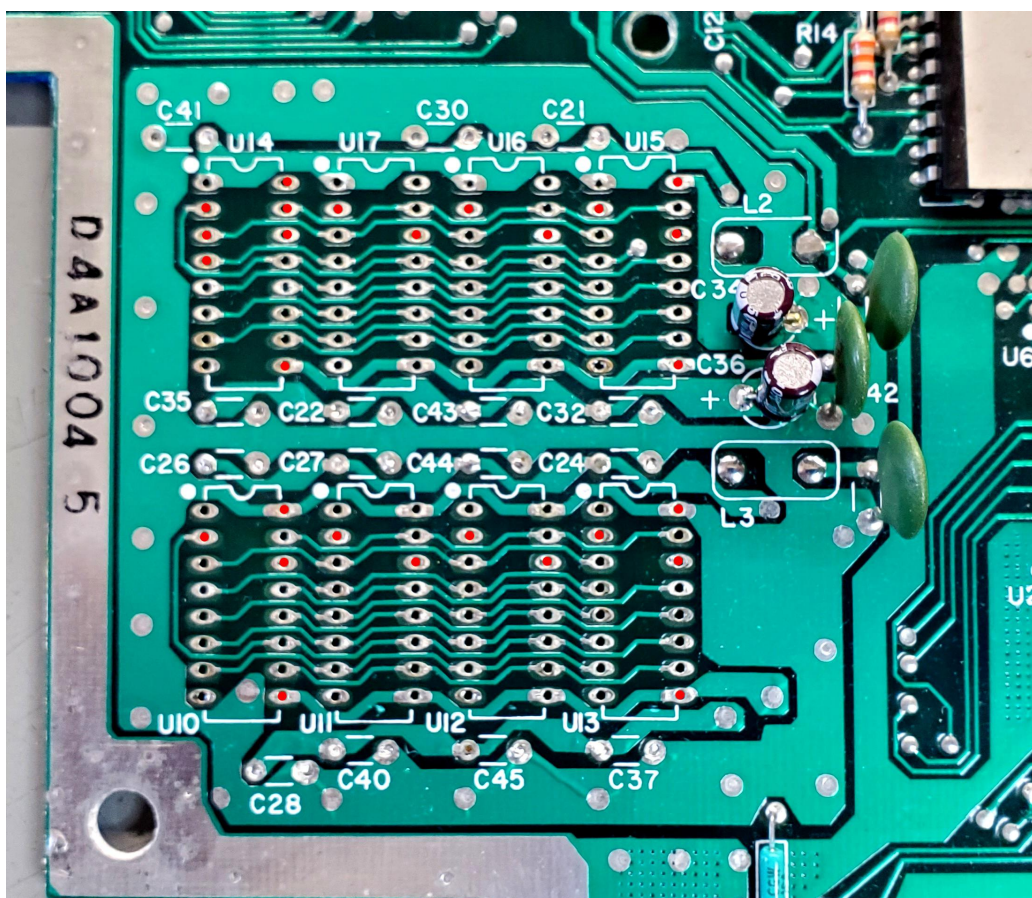


Figure 1

Step Two

Inspect desoldering work performed and repair any visual issues found or take notes at this point to address later if bodge/repair wires are need to be added after the new DRAM to SRAM converter board is installed. Verify all solder is fully removed from solder pads shown in red in **Figure 1** to ensure room for pins later. Note: Redundant parallel signals are not used by the new



SRAM Converter mod PCB and may not even have to be addressed if the break is after where the signal is being tapped for the new PCB. See troubleshooting section for diagnosing broken traces if needed.

Step Three

Start the process of installing your new SRAM Converter mod PCB by aligning GND1 pin (above /CAS pin on the top side of the PCB) into the upper right Pin 16 of U14 solder pad hole as the reference of properly aligning the PCB. See arrow in **Figure 1**. Carefully and slowly lower the PCB in place. Do not to rush this process. It may be necessary to wiggle the PCB slightly if any pins are ever so slightly off as you work them all in place as you carefully lowered it. If for some reason a pin will not align, bend it slightly to seat. Lower the PCB as parallel as possible with the ADAM Delta PCB to avoid bending pins and making the installation more difficult.

Step Four

Once the Converter PCB is seated fully in place, carefully rotate the entire ADAM Delta PCB and verify the board is still fully seated all the way down. Carefully solder all 27 pins in place to the corresponding original DRAM solder pads. Your new **DRAM to SRAM Converter** mod PCB is now installed and ready for testing.

Testing

Attach the ADAM Delta PCB in the case without any RF tins, connect the power supply with the power switch in the OFF position, and connect audio and video using your unit’s configuration. Power on the display and console unit and verify it boots to SmartWRITER without any graphical glitches or issues. If it correctly displays SmartWRITER cleanly, then congratulations, your new SRAM board is now operational. Enjoy! If you are experiencing display issues, see troubleshooting section below.

Troubleshooting

To fully troubleshoot any issues, use the following checklist to verify each signal used by the SRAM PCB to the corresponding VDP IC pin number to find any broken traces to repair. It is assumed the installer understands proper pin numbering scheme of DIP IC packages.

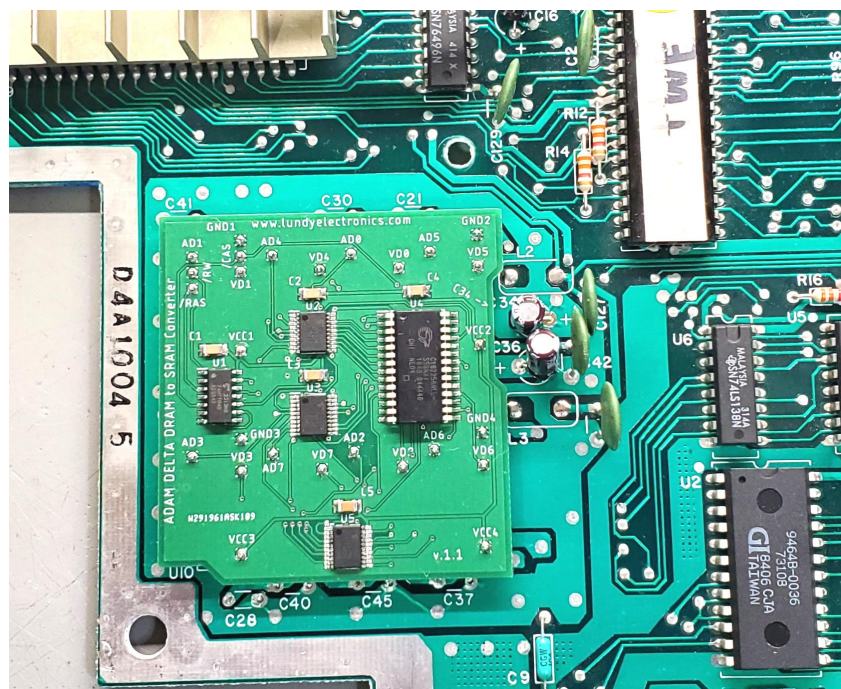
The following checks are done from the top side of the ADAM Delta PCB and in order of SRAM PCB top to bottom.

SRAM PCB	VDP (U9)
[] GND1,2,3,4	Pin-12 (System Ground)
[] VCC1,2,3,4	Pin-33 (System +5v)



[] AD1	Pin-9
[] /CAS	Pin-2
[] AD4	Pin-6
[] AD0	Pin-10
[] AD5	Pin-5
[] /RW	Pin-11
[] VD1	Pin-31
[] VD4	Pin-28
[] VD0	Pin-32
[] VD5	Pin-27
[] /RAS	Pin-1
[] AD3	Pin-7
[] AD7	Pin-3
[] AD2	Pin-8
[] AD6	Pin-4
[] VD3	Pin-29
[] VD7	Pin-25
[] VD2	Pin-30
[] VD6	Pin-26

Thank you for choosing Lundy Electronics, and we hope you enjoy your ADAM product.



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