

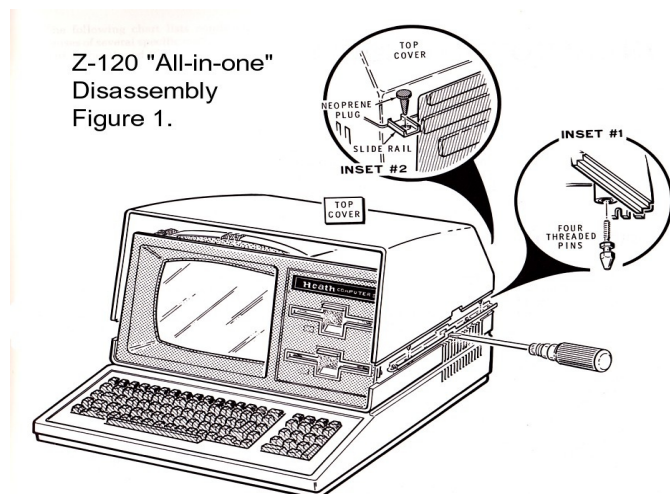


Z-120 "All-in-one" Disassembly

General Notes:

- * Note the configuration and positioning of ALL cables for reassembly, particularly the marked edge of each ribbon cable.
- * Disassembly assumes you are facing the computer's rear as shown in the diagrams.
- * Reassembly is the reverse of the disassembly procedures.

Z-120 "All-in-one" Computer Disassembly:



Z-100 Disassembly

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Editor, "Z-100 LifeLine"

- * The cover is removed by moving the cover's two metal slides about 1/8" to the rear with a flat edge screwdriver and lifting the cover off the base.

Figure 11 shows what these slides look like. Both Z-100 models use the same slides, but on the Z-120, they are installed on the base, and on the Z-110, they are installed on the cover.

If you look at the way the slots are formed, they lock in the full forward position AND the full rear position (this position is used for storage and is held by rubber pins). Slide the rails only about 1/8" to the rear to open.

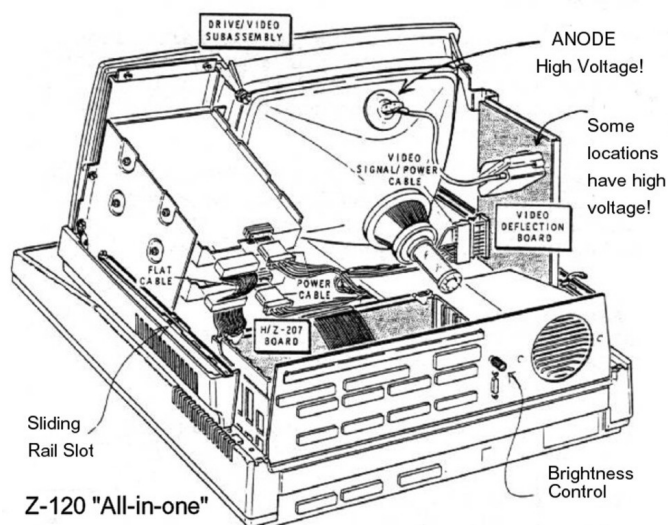


Figure 2.

- * Remove 5 long screws holding the middle base to the bottom base unit.
 - Two hex-head machine screws on each side (4 total).
 - An additional hex-head sheet metal screw on the left side toward the front.

* Note the configuration of the ribbon cables and power cables, particularly the marked edge of the ribbon cables for reassembly.

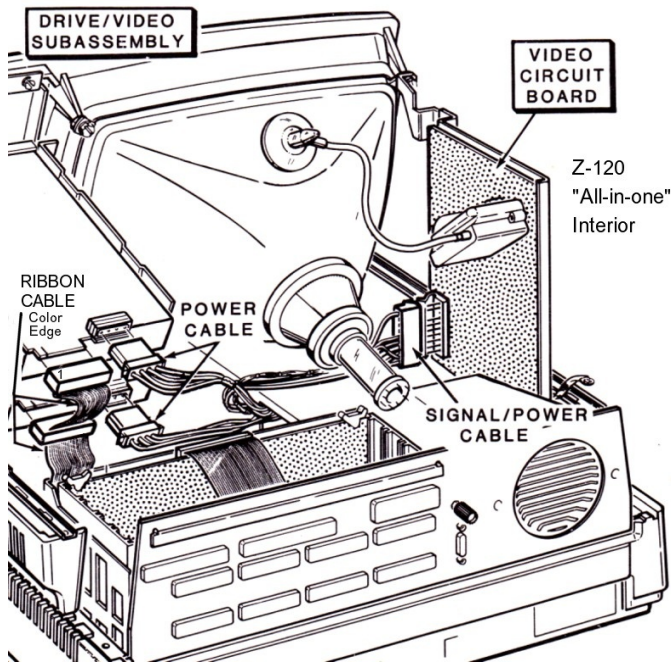


Figure 3.

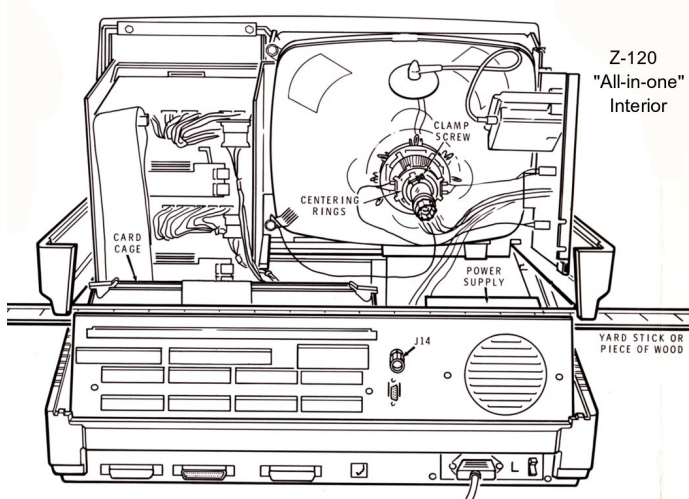
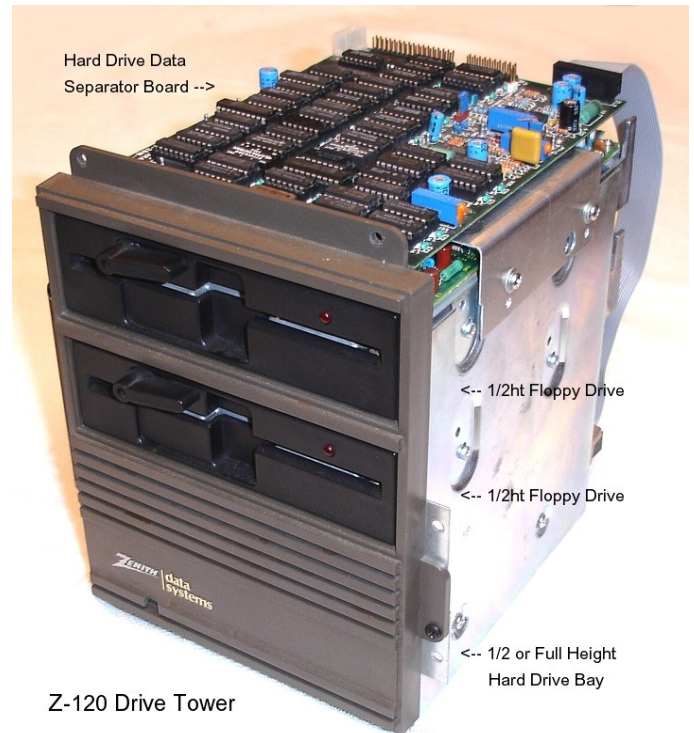


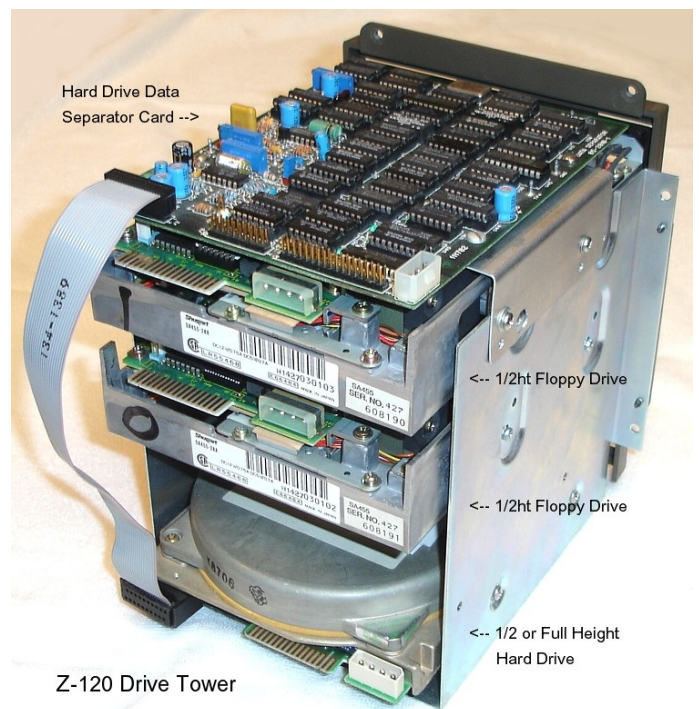
Figure 4.

Referring to Figure 4, you can raise the rear of the Drive/Video Subassembly and support it on a yardstick or a length of dowel to support the rear of the assembly for better access to the card cage and cables.



Z-120 Drive Tower

Figure 5a.



Z-120 Drive Tower

Figure 5b.

- * Figures 5a and 5b show the drive tower, in this case containing two half height floppy drives over a full height hard drive. The card on top is the hard drive Data Separator Card.

- * Refer to Figure 3 and remove the ribbon cables from the rear of the floppy drive(s). The marked edge is to the left side of the computer.

- * Remove the power cables from the floppy drive(s).

If a hard drive is installed:

- * Refer to Figures 5a and 5b, and remove the 3-wire power supply cable from the Data Separator Card mounted on top of the hard drive.

- * Remove the ribbon cables from the rear of the hard drive. The marked edge is toward the power supply.

- * Remove the power cable from the hard drive.

Z-120 "All-in-one" Video Deflection Board

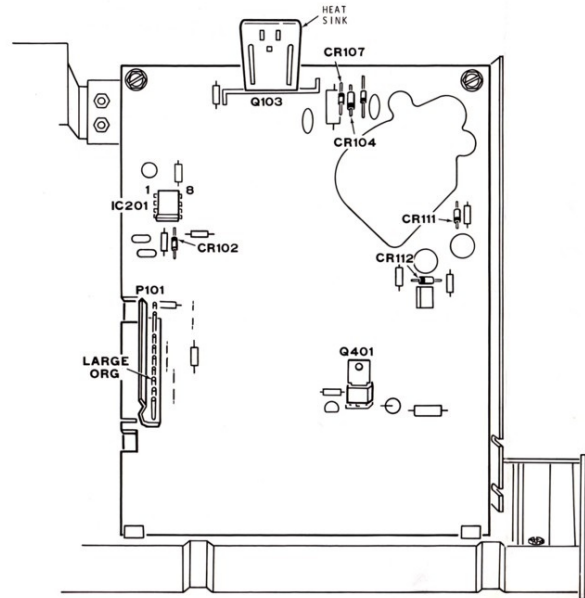


Figure 7.
The Video Deflection Board

The Z-120 "All-in-one" Monitor CRT

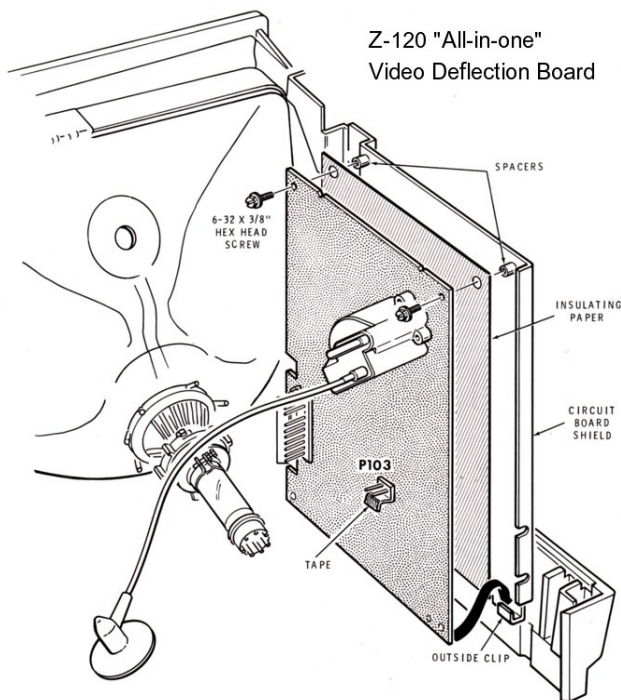
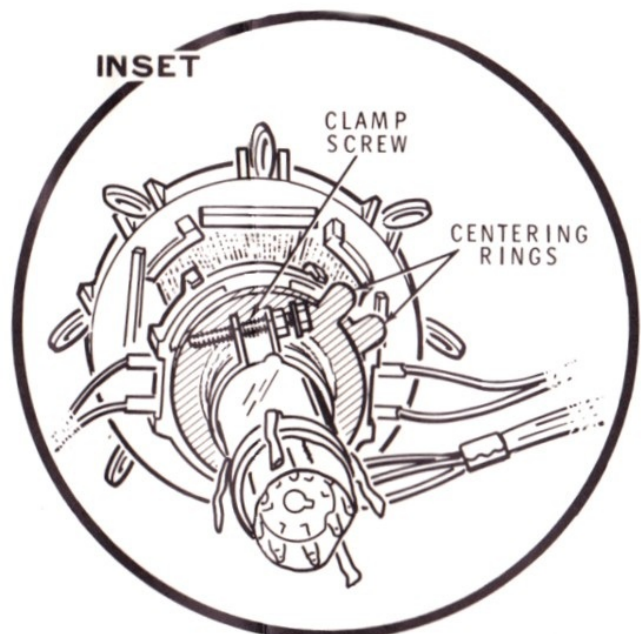


Figure 6.
The Video Deflection Board

- * Refer to Figures 3 and 6 to remove the signal/power cable from the video deflection circuit board mounted vertically on the right side of the computer.

This is a TIGHT fit. Note the configuration of the various wires and which way is UP.

Figure 7 shows a closeup view of the Video Deflection Board. Figure 8 shows a closeup view of the yoke of the Cathode Ray Tube (CRT).



Z-120 "All-in-one" CRT Neck

Figure 8.

* Lift the entire Drive/Video Subassembly clear of the computer base and set aside.

Once the Drive/Video Subassembly is removed, the Z-120 and Z-110 are very similar; the most obvious difference remaining is the shape of the power supply case. The power supply itself is very similar between the two models, except for two additional wires for the CRT.

Skip the Z-110 Low-Profile Computer Disassembly procedures; proceed to **Disassembly of Base**.

Z-110 Low-Profile Computer Disassembly:

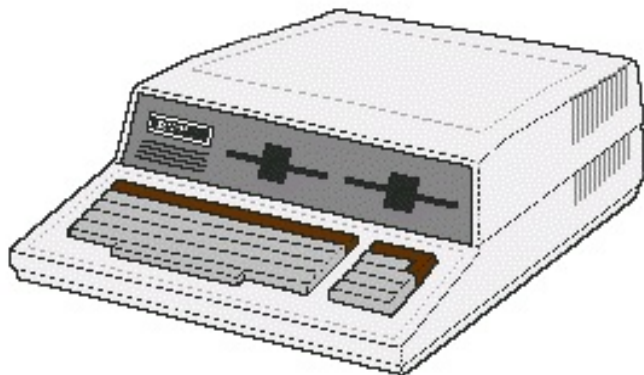


Figure 9.
The Z-110 "Low-profile" Model

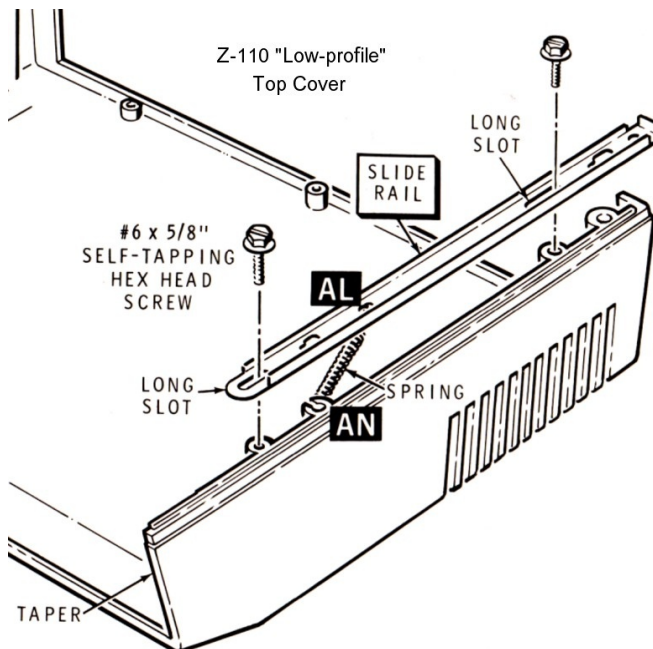


Figure 11.
View of the slides.

- * Remove the screws holding the black drive subassembly to the bottom base unit:
 - Two pan-head sheet metal screws on each side (4 total).
 - A hex-head pin machine screw in the center hole on each side (2).

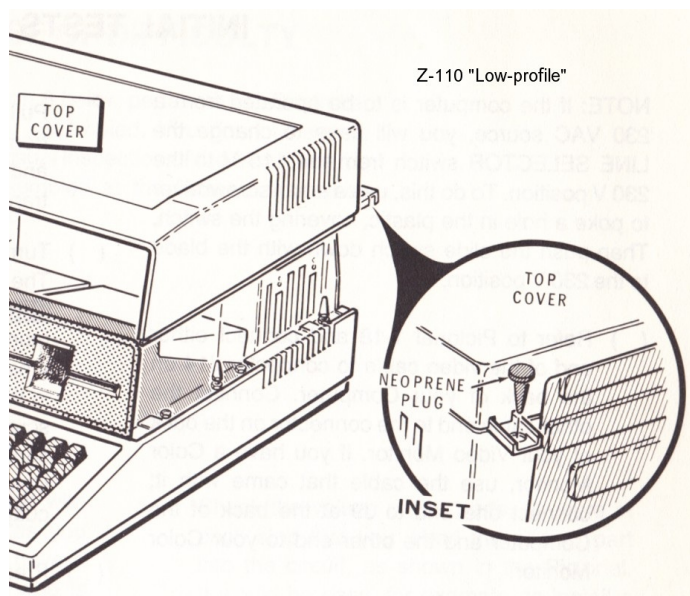


Figure 10.
Opening from the rear.

- * The cover is removed by moving the cover's two metal slides about 1/4" to the rear and lifting the cover off the base.

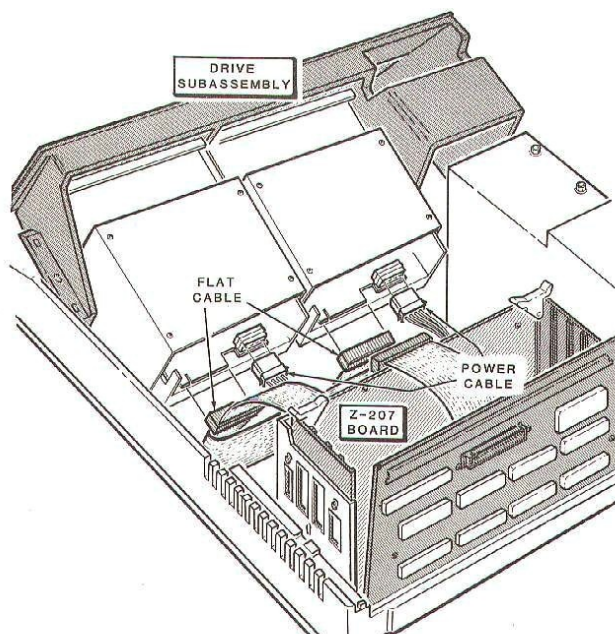


Figure 12.
Z-110 Floppy Drives

- * Remove the screws holding the plastic base unit cover to the computer base.
 - A pan-head sheet metal screw on each side at the front (2).
 - A hex-head pin machine screw on each side at the rear (2).
- * Note the configuration of the ribbon cables and power cables, particularly the marked edge of the ribbon cables for reassembly.
- * Lifting the Drive Subassembly slightly, remove the ribbon cables from the rear of the floppy drive(s). The marked edge is to the left side of the computer (away from the power supply).
- * Remove the power cables from the floppy drive(s).

If a hard drive is installed:

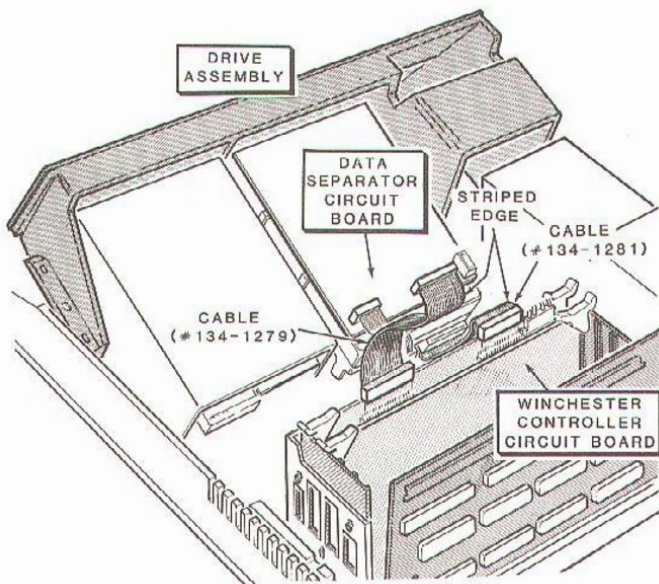


Figure 13.
Z-110 Floppy and Hard Drive

- * Remove the 3-wire power supply cable from the Data Separator Card mounted on top of the hard drive.
- * Lifting the Drive Subassembly slightly, remove the ribbon cables from the rear of the hard drive. The marked edge is to the right side of the computer (toward the power supply).
- * Remove the power cables from the hard drive.
- * Lift the entire Drive Subassembly clear of the computer base and set aside.

Disassembly of Base

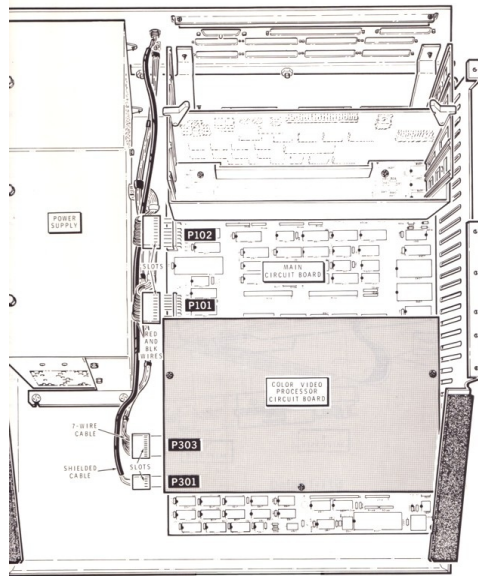


Figure 14.
The Z-110 Interior

- * The base of both computers is essentially identical. The card cage at the rear holds the floppy and hard drive controller cards, additional memory Z-205 boards, serial port Z-204 boards, or other boards that use a standard S-100 buss system. All five slots are identical, so any board can go in any convenient slot.
- * To remove boards from the card cage, rotate the pair of white pry bars located on the top of most S-100 boards toward the outside of the cage, prying the board from its socket.

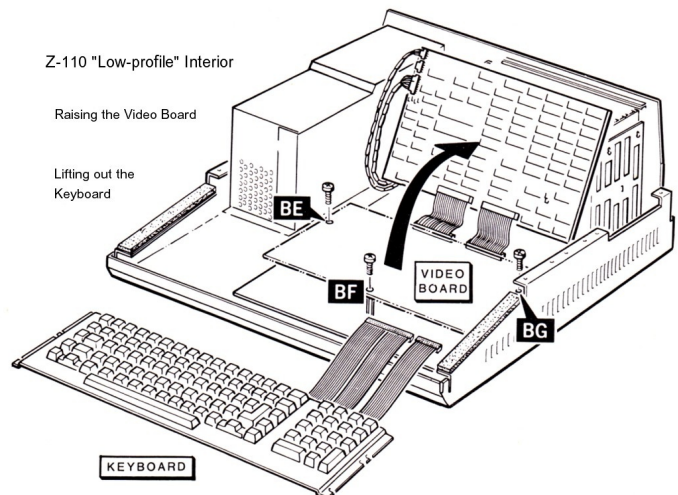


Figure 15.
Raising The Video Board

- * To gain access to the motherboard, remove three screws holding the video board and lift up the video board as shown.

* To remove the video board, remove the two 40-pin ribbon cables from the motherboard and any cables attached to the video board's left edge.

Z-120 Power Supply

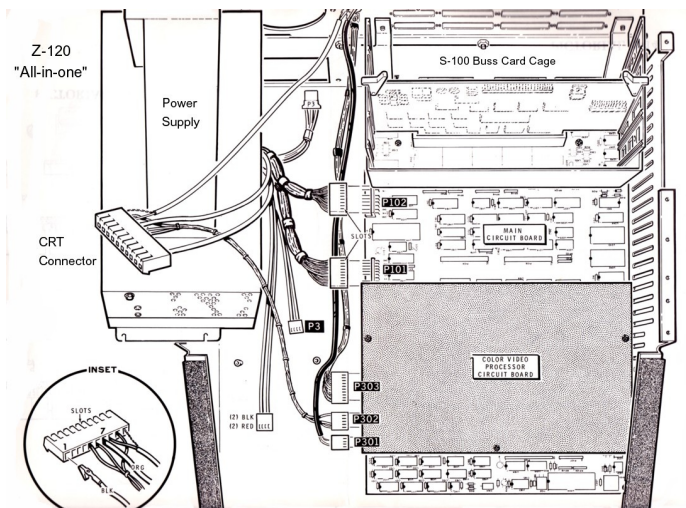


Figure 16.
The Z-120 Interior

Both Z-100 models use nearly the SAME power supplies, just in different cases. The interior workings can be used in either case, but the Z-120 power supply has extra parts for the internal CRT monitor. These can be clipped and taped off, if necessary.

The power supply case for the Z-120 has a sloping cover and the interior main board is mounted flat against the bottom.

**Z-110 "Low-profile"
Power Supply**

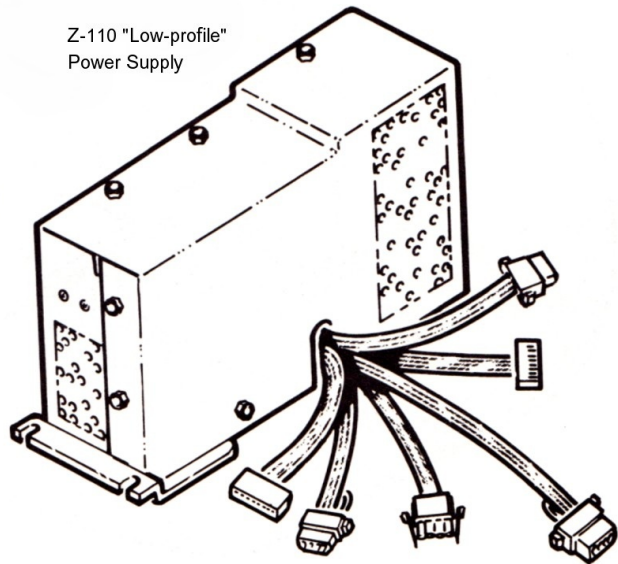


Figure 17.
The Z-110 Power Supply

The Z-110 case is rectangular, because the main board is mounted against the left side.

Note: I have extra Z-120 power supplies, if you need a replacement for either model.

If you have any questions or comments, please email me at:

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Cheers,

Steven W. Vagts

