

GEMINI EMULATOR BOARD

Installation Instructions

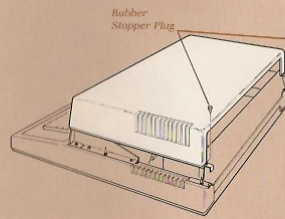
Low Profile Models of
the Zenith Z100 Computer

Before You Begin...

- Before proceeding with the installation steps described in the following pages, make certain that your computer is disconnected from the AC outlet.
- Bear in mind at all times that you are dealing with delicate electronic equipment. Maintain your patience. Do not force connections.
- Please review the instructions which follow. If you feel uncomfortable about installing the Gemini Emulator Board yourself, seek dealer assistance.

1 Removing the Computer Top Case

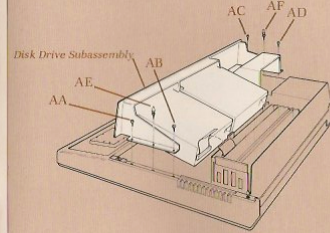
- Make sure rubber stopper plugs are removed from locking slides.
- Pull the metal locking slides at the back of the computer console all the way out, and then push them 1/4 inch forward to the unlocked position.
- Carefully lift the top case straight up until it is clear of all interior parts of the machine and set it aside.



Note: To prevent possible damage to Winchester-equipped

2 Removing the Disk Drive Subassembly

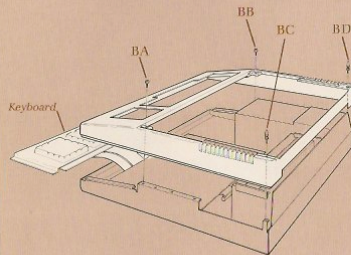
- Remove the four screws at positions AA, AB, AC and AD as shown below.
- Remove the two locking pins at positions AE and AF.
- Carefully lift the disk drive subassembly up and gently place it about two inches closer to the front of the computer.
- Carefully unplug the flat ribbon cable from each disk drive. Then unplug the power cable from each disk drive.
- Gently remove the disk drive subassembly and set it aside.



Note: Winchester-equipped models will require

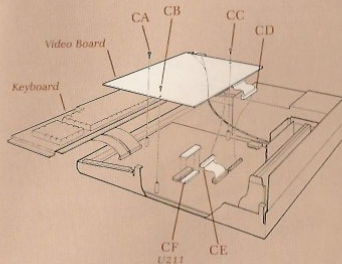
3 Removing the Base Cover and Keyboard

- Remove the two screws at positions BA and BB as shown below.
- Remove two locking pins at positions BC and BD.
- Remove the base cover by lifting it up and back in order to clear the controls and connectors on the back panel. Set the cover aside.
- Gently lift the keyboard up and forward. Place it to the front of the computer console.



4 Removing the Video Board

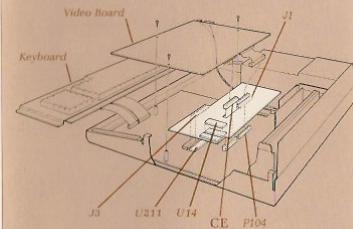
- Remove the three screws at positions CA, CB and CC as shown below.
- Gently lift video board to gain access to the points where the two flat ribbon cables are connected at the back of the board.
- Disconnect cable CD from the mother board. Disconnect cable CE from the video board.
- Lift video board out and set it aside.
- Remove 8088 Processor from socket U211 at position CF.



Note: A special tool (Heath Part No. 490-189) is available through Heath/Zenith Computer Stores for removing the 8088 processor. If that tool is not available, a short, flat-bladed screw driver can be used.

5 Installing the Gemini Emulator Board

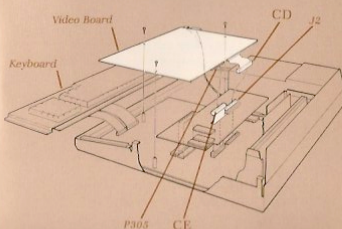
- Insert 8088 Processor into socket U14 on the Gemini Emulator Board.
- Thread ribbon cable CE through slot in Gemini Emulator Board.
- Align J1 connector on Gemini Board with connector P104 on mother board. Align connector J3 on Gemini Board with socket U211 on mother board.
- Complete connections by pressing slowly together. Be careful not to bend connector pins.



Note: Check all connector pins to be sure they are straight before plugging the Gemini Emulator Board into place.

6 Re-installing the Video Board

- Reconnect cable CE to connector P305 on video board.
- Connect cable CD to position J2 on the Gemini Emulator Board.
- Reassemble computer by reversing steps 1 through 4. Leave no cables unconnected.



Note: Run recommended diagnostics to verify that reassembly has been correctly accomplished.