

**Rear View**  
**Front View**  
IBM 7013 Model 595 (Closed)

## Specifications

### Processor

- P2SC (Power2 Super Chip) 135MHz.

### Memory

- 64MB standard, expands to 2GB.

### I/O Expansion Slots

- Eight Micro Channel slots are available for expansion.
- Six memory slots

### Diskette Drive

- One 3.5", 1.44MB drive standard

### Integrated Features

- CD ROM.
- Dual-controller SCSI-2 fast/wide single ended adapter.
- Two EIA-232 asynchronous ports.
- One parallel port.
- Keyboard port.
- Mouse port.
- Table port.

### IPL Firmware

- Flash memory

### Internal Expansion Bays

- Six 3.5" DASD bays
- One full height and one half height 5.25" media bays

### I/O Slot Designations

1/1	Top of Deskside
1/2	
1/3	
1/4	
0/1	
0/2	
0/3	
0/4	Bottom of Deskside

### I/O Architecture (Bus's supported)

- Micro Channel, Dual Bus I/O bus implementation
- **Note:** multi-card adapters must reside on a single bus, multi card adapters cannot straddle the two Micro Channel buses.

### Power Supply

- 750 Watt

### Diagnostics

- Normal Post Diags performed on Power UP of system.
- For Advanced Diags use POWERstation and POWERserver Common Diags. Information Manual.
- Troubleshoot according to errors found during test.

### CMOS Access

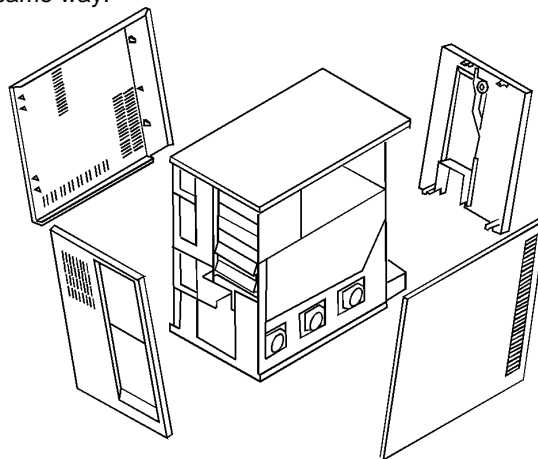
- QAPlus/FE

## Tools and Software Requirements

- Phillips head screwdriver
- Needle nose pliers
- Diags and formatted blank diskette
- Anti-static wrist strap

## Removal Procedures

- Turn off the computer and any peripheral devices.
- Disconnect AC power cord from outlet and system.
- Disconnect all peripheral devices from the computer.
- Unlock the back cover, the front cover lock is unlocked at the same time.
- Unscrew the lock shaft inside the back cover before removing the front cover.
- The back and front covers must be removed before you can removed the side covers. The top cover of the system unit is not removable.
- Pull the back cover out at top and rotate it down, then lift the cover up and out of the bottom of the system.
- The front cover, and the side covers are all removed the same way.



IBM 7013 Model 595 (Open)

### Memory

Main Memory Card Installation Rules:

Memory cards must be installed as follows:

- A pair (two cards) or a quad (four cards) or two quads (8 cards).
- Any pair of any quad must be of the same capacity.
- First and second quad may be of different capacities.
- Use slots D & H for pair. Use slots B, D, F, H for first quad. Use slots A, C, E, G for second quad.

### System Boards

The CPU planar requires +2.6 VDC which is generated on a DC to DC converter card that is plugged into the CPU planar. The power source for the converter card is +3.7 VDC from the system power supply.

## Feature Configuration Restrictions

### Adapter Restrictions

The following adapters must be installed in slots 0/1 through 0/4 only.	
Gt4xi 24-bit graphics (PED4 turbo)	#2712
Gt4i 24-bit graphics (PED4)	#2713
Gxt150m (NEPTUNE)	#2650
Gt4e (LEGA3)	#2776
Gxt1000 Attachment (RUBY attach)	#2820
Ultimedia audio adapter	#6302
Ultimedia Video I/O (SUNRISE)	#2404
Digital trunk adapter (SAFARI)	#6300
Digital trunk dual (SAFARI)	#6305

The following multi-card adapters cannot straddle the two Micro Channel buses	
S/390 ESCON Channel Emulator	#2754
ESCON Control Unit Adapter	#2756
FDDI - Fiber Dual Ring	#2723 plus #2724
FDDI - STP Dual Ring	#2726 plus #2725
HiPPI / only 3 additional adapters are allowed on system with HiPPI	#2735

### Device Restrictions

Media Restrictions
8MM tape drive (#6147). One per system must be installed in media bay A
4MM tape drive (#6142). Up to 2 per system. Must be installed in media bay(s) A and/or B.
One 8MM tape drive (#6147), and one 4 mm tape drive (#6142) allowed. 8MM tape drive (#6147) must be installed in media bay A.
Base 8x Speed CD ROM (#9608). Must be installed in media bay C.
Additional 8x Speed CD ROM (#2618). May be installed in media bays A or B.

## Field Replaceable Units

### Cables

Description	IBM Part
SCSI and diskette	00G0976
SCSI cable assembly	39H9274
Second SCSI 4 drop	00G0977
Second SCSI 6 drop 8-bit	52G7451
Second SCSI 6 drop 16-bit	52G4430
Fan speed control cable	39H8835
Keylock reset	52G7452

### Miscellaneous

Description	IBM Part
Power supply	8184794
Fan assembly, early models	22F9685
Fan assembly, later models	42F7434
Isolator (requires screws)	60X5703
Isolator (no screws required)	81F7977
Fan	22F9685
Fan guard	2546641
Fuse (part of I/O planar, early models)	72X8488
Standard I/O flex circuit, later models	8184811
SCSI riser card	52G7351
Front fan, high speed	32G1528
Battery	23F0168
Rear fan	40F9979
Planar support structure	8184807
Flex circuit, serial ports	32G0176
CPU planar	39H9164
I/O planar	40H7517
SCSI 16-bit terminator	92F2566