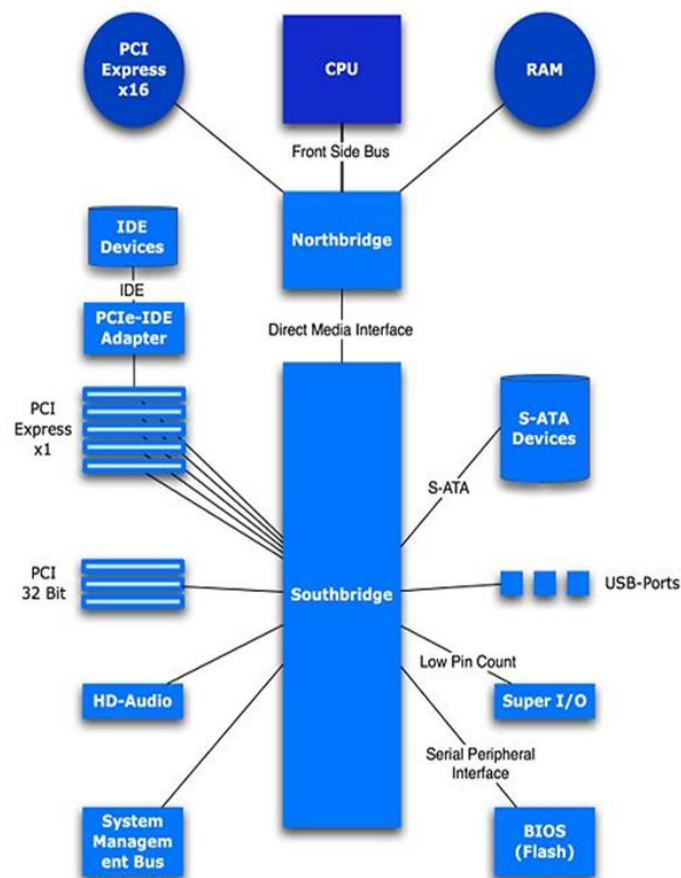
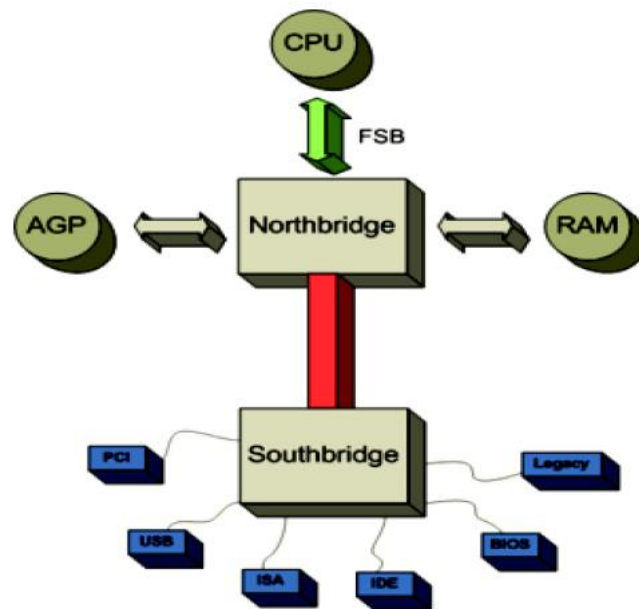
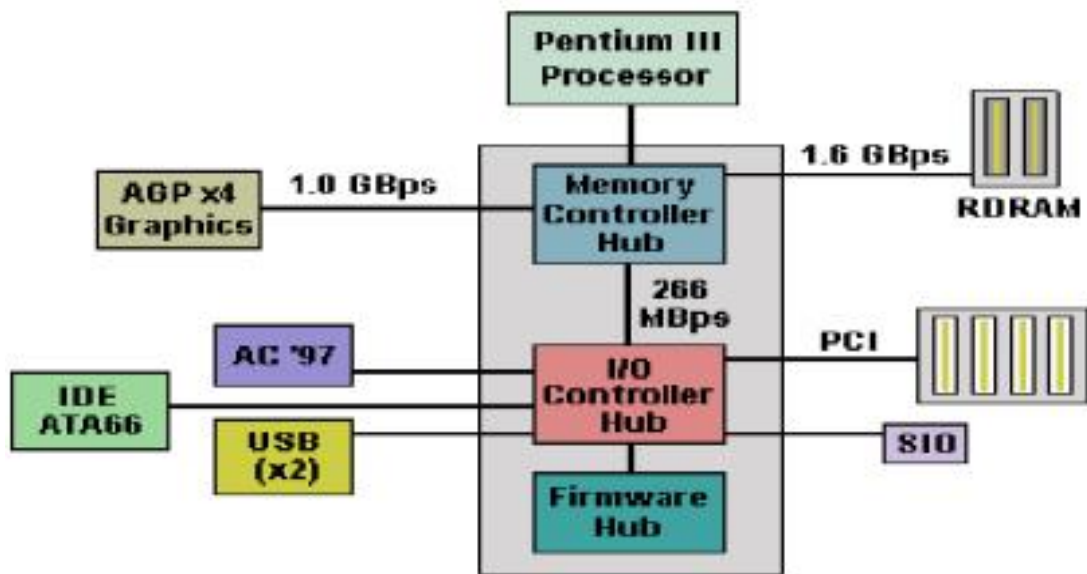
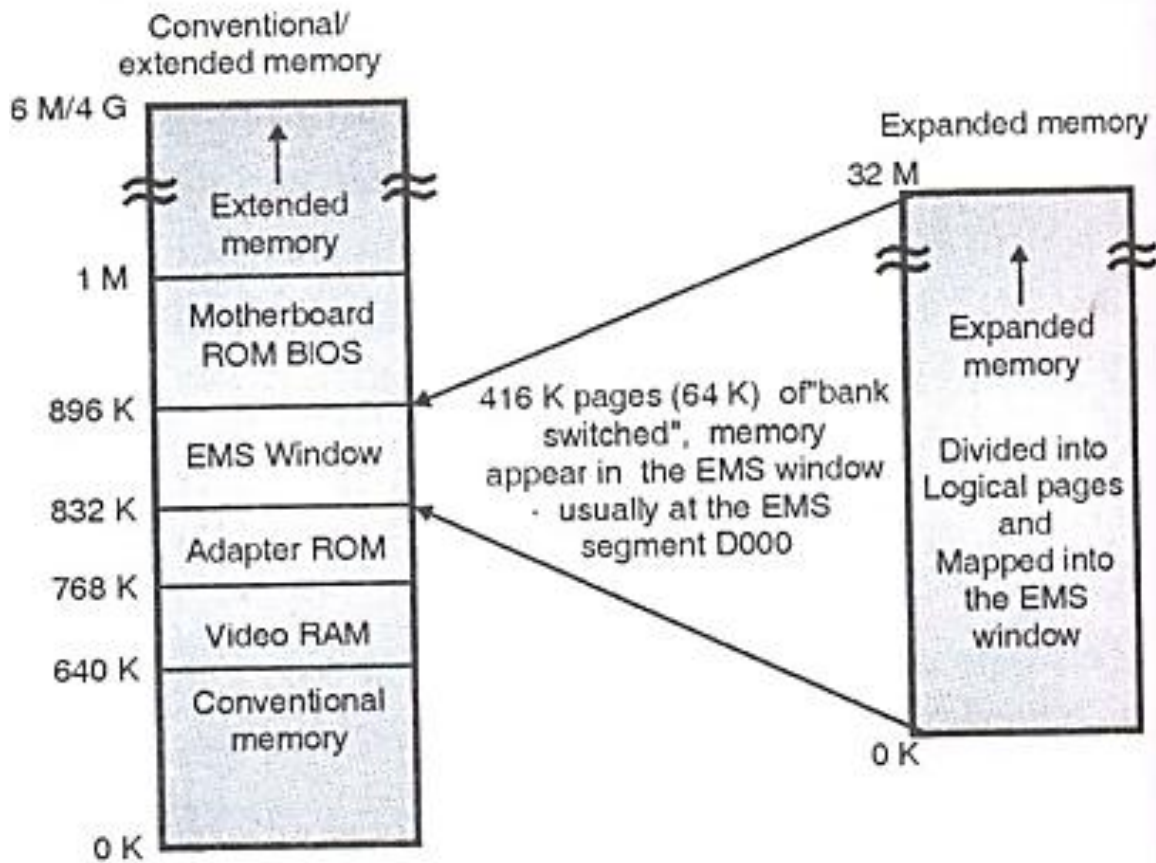


Chapter 1 Motherboard & Its Component

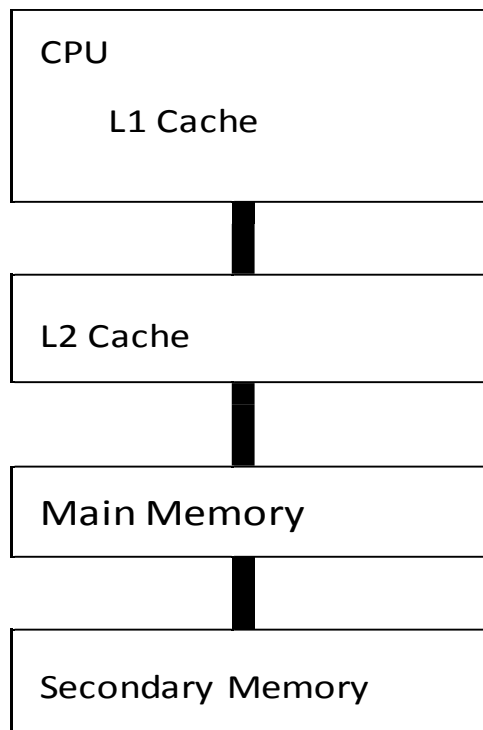




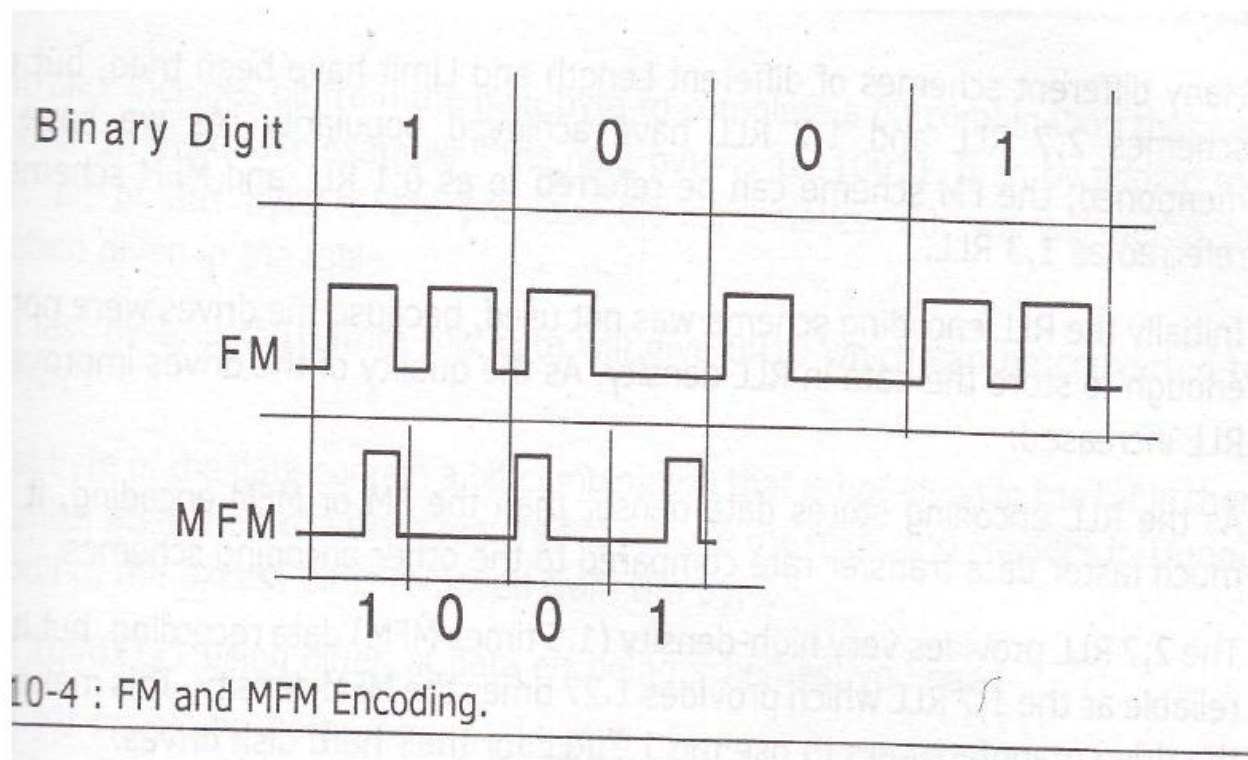
Hub Architecture

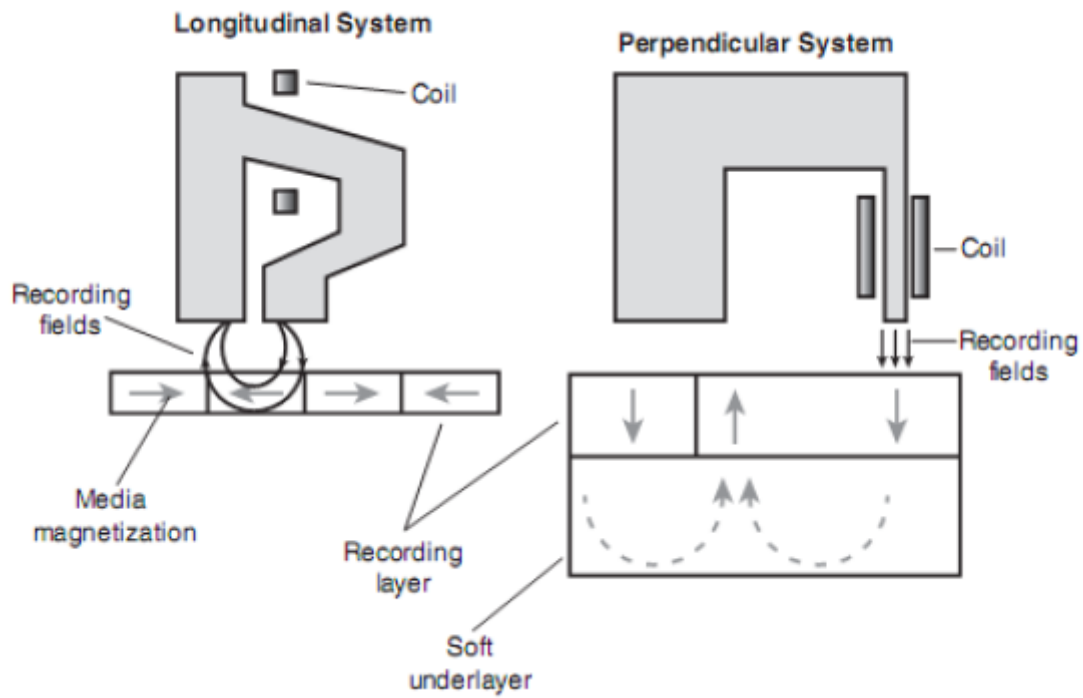


Conventional extended and expanded memory

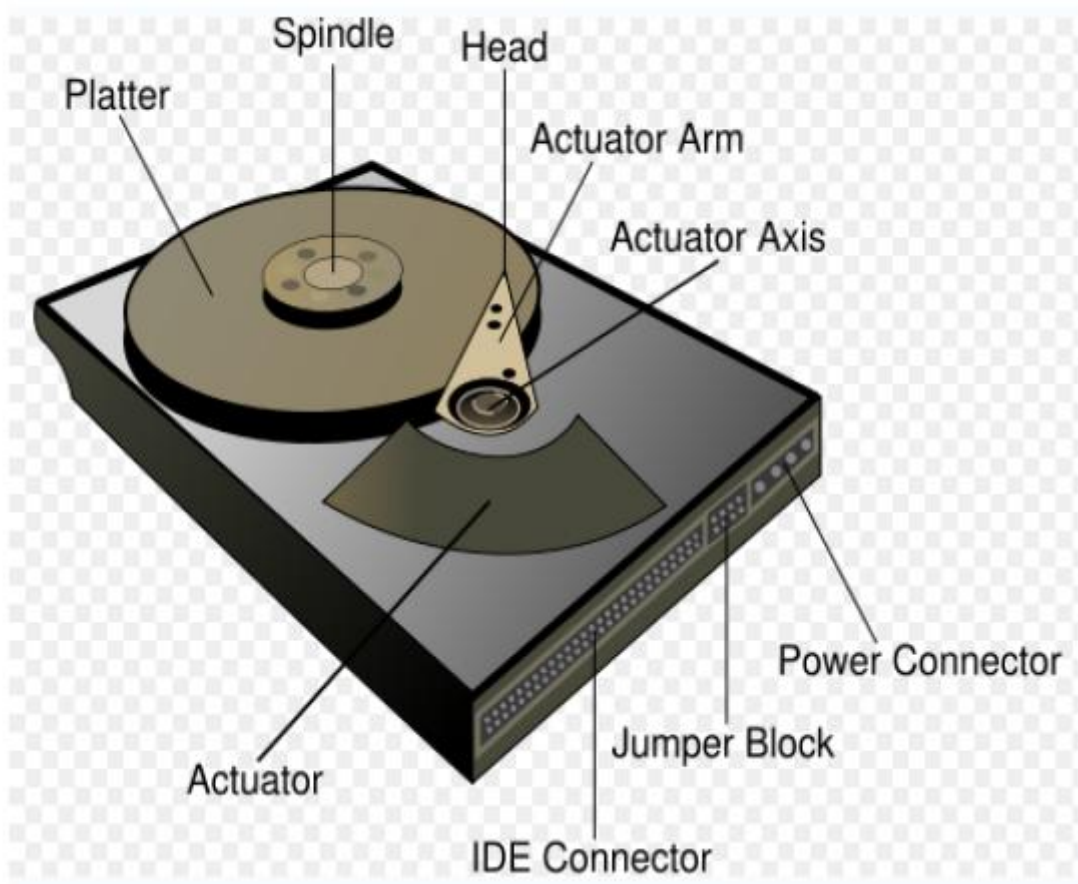


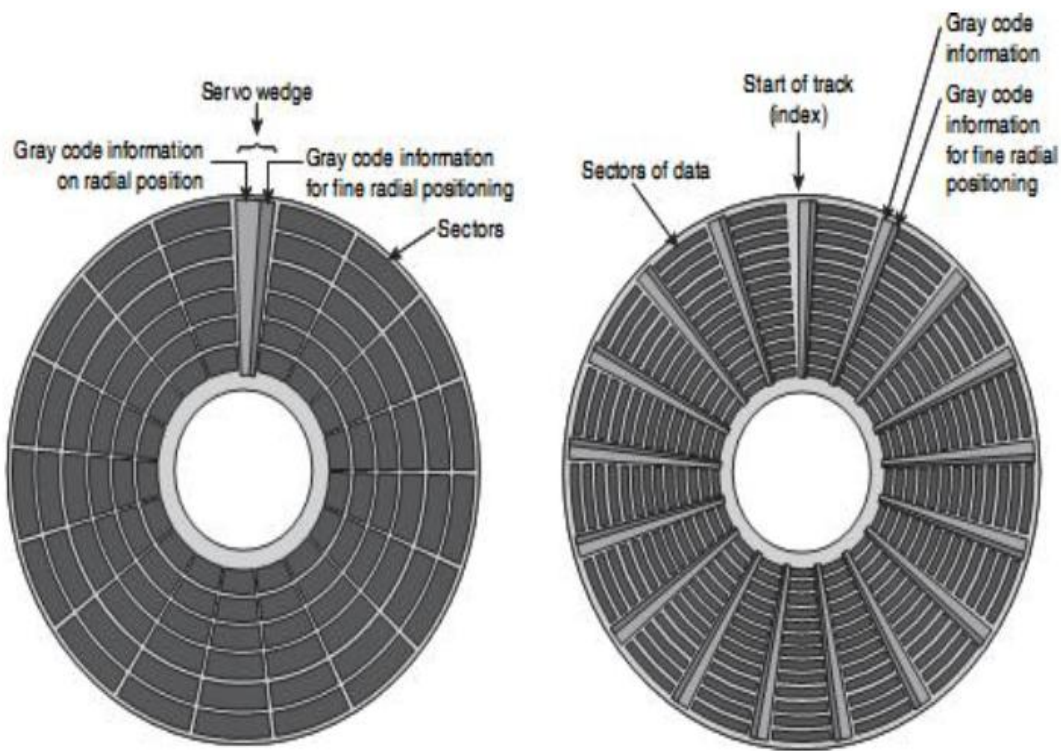
Chapter 2 Storage Devices & Interfacing





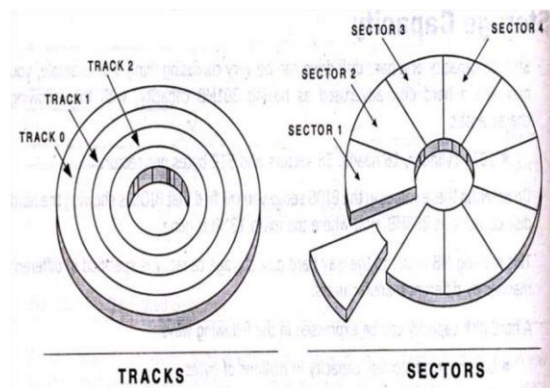
Hard Disk Construction

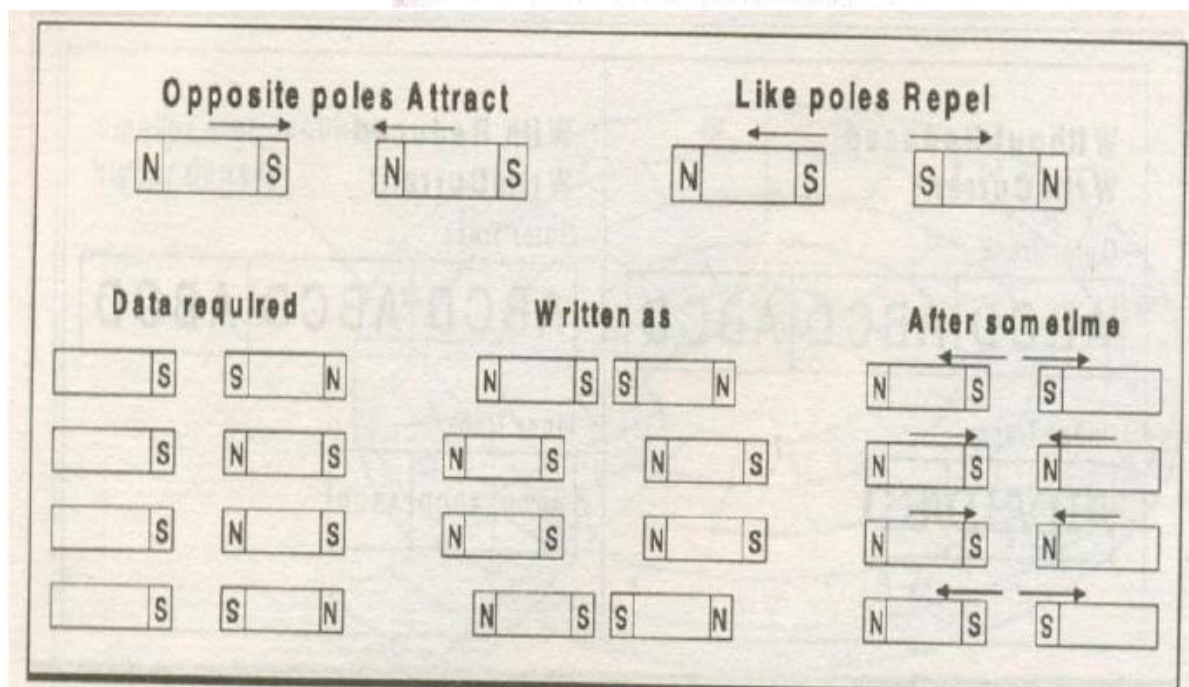
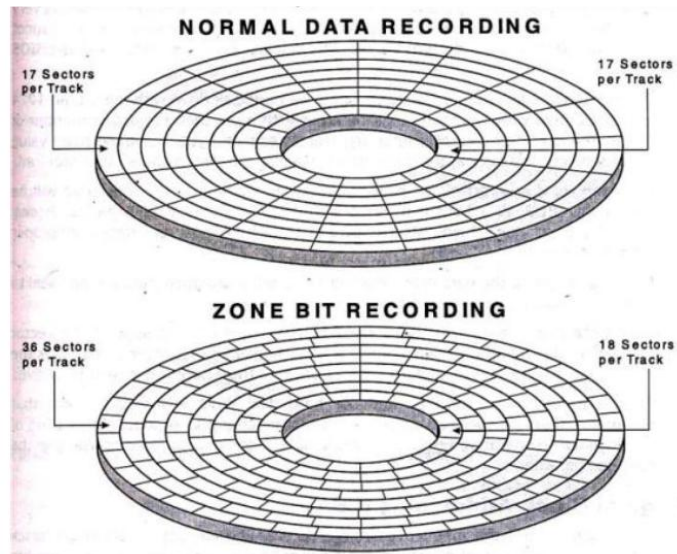
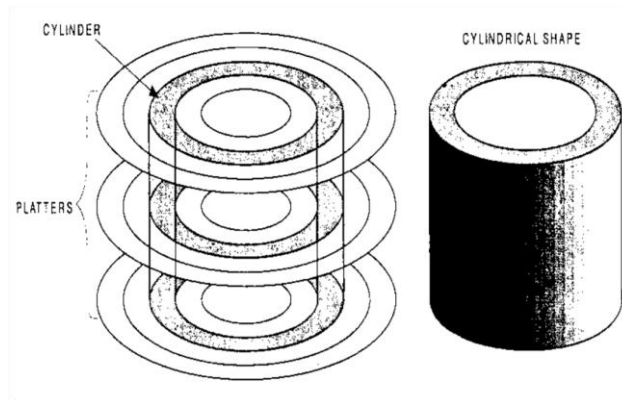




10 A wedge and an embedded servo.

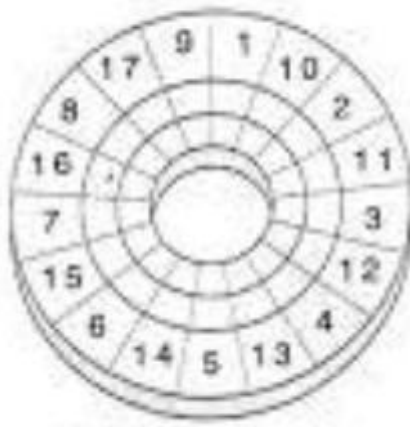
Dedicated Versus Embedded Servo





Write PreCompensation

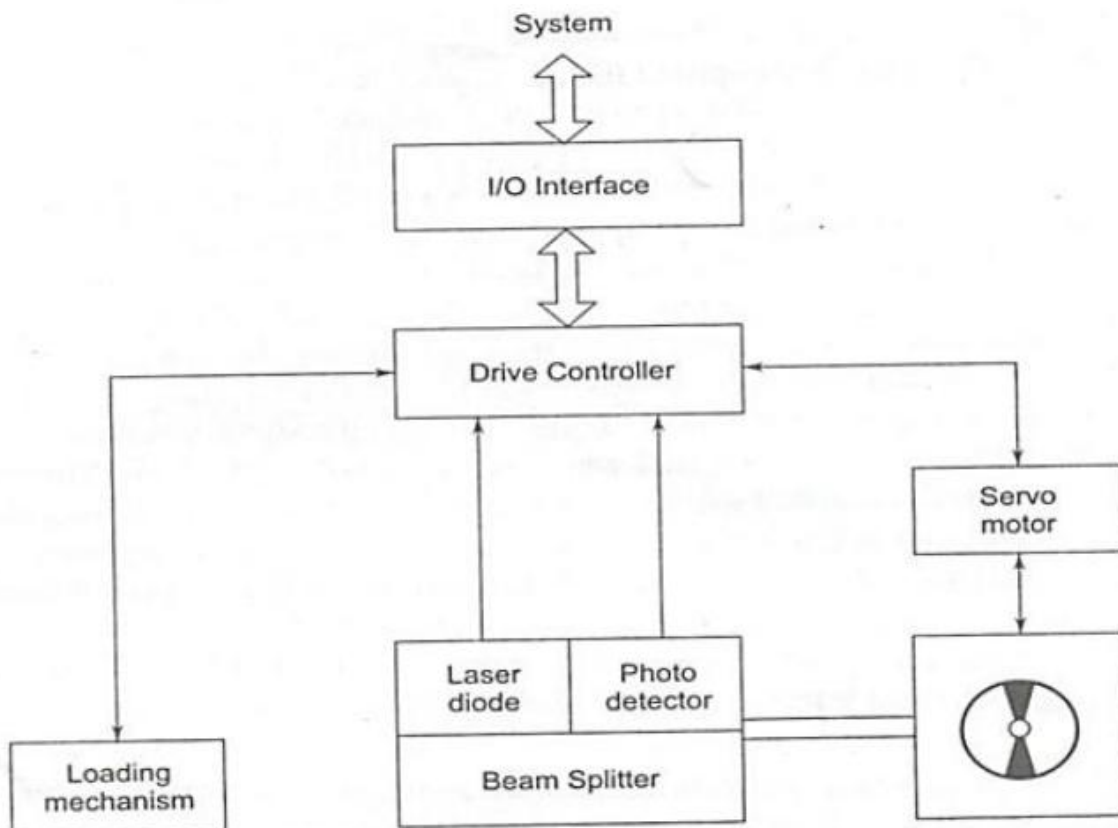
Interleave factor



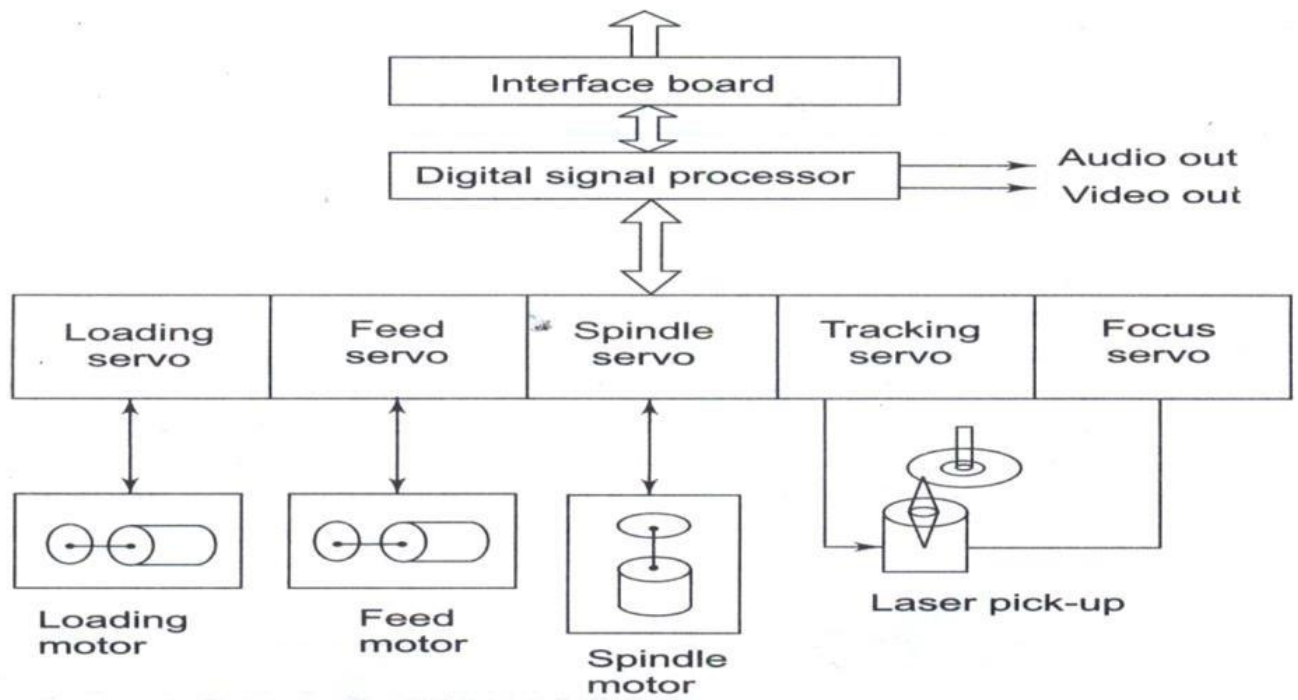
1:2 Interleave



1:3 Interleave

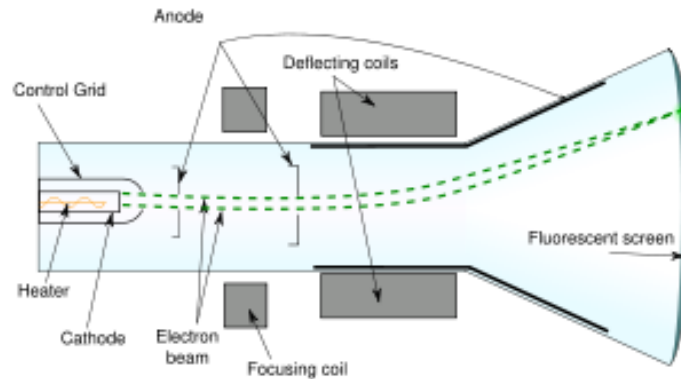


Block Diagram of CD-ROM Drive

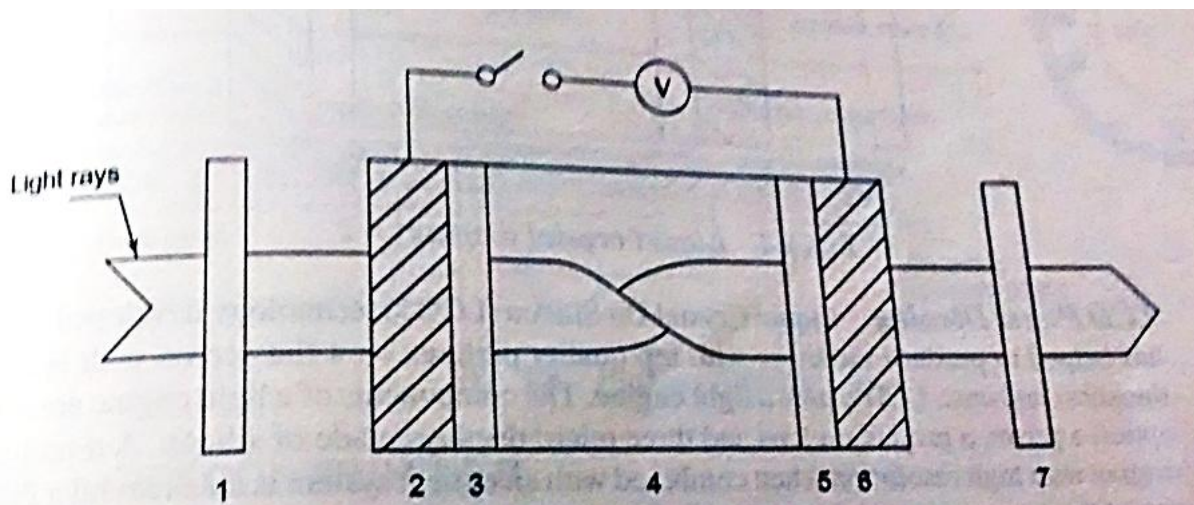


Block Diagram of DVD-Drive

Chapter 3 Display Devices & Interfacing

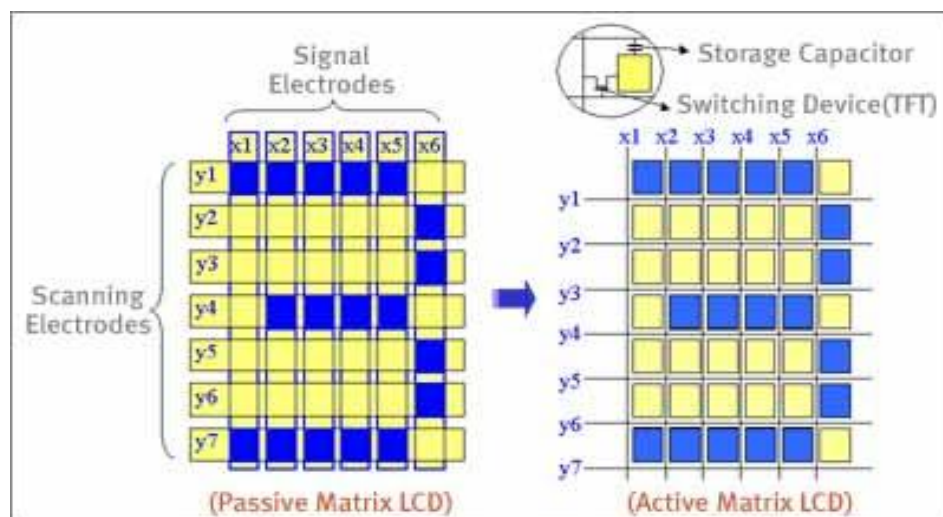


CRT Monitor

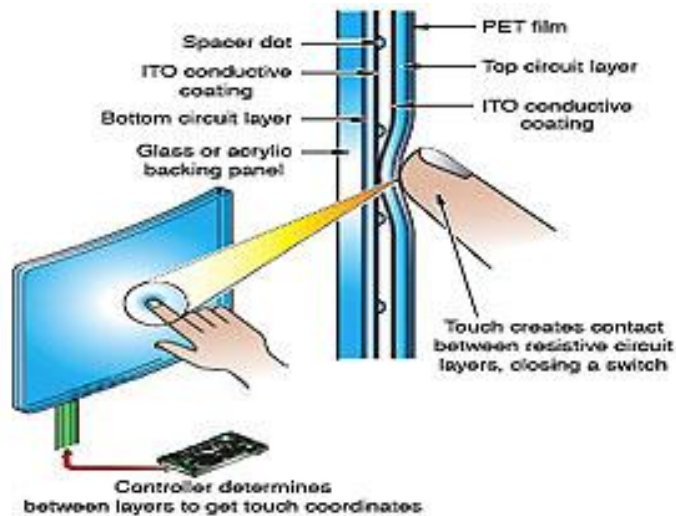
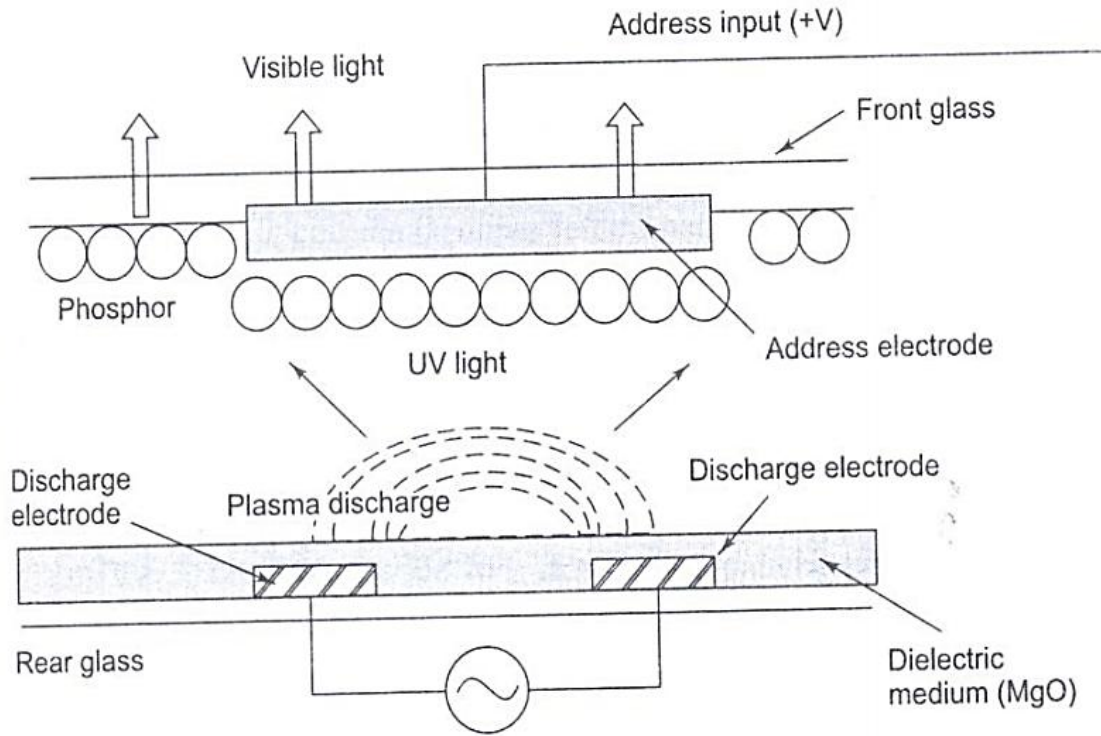


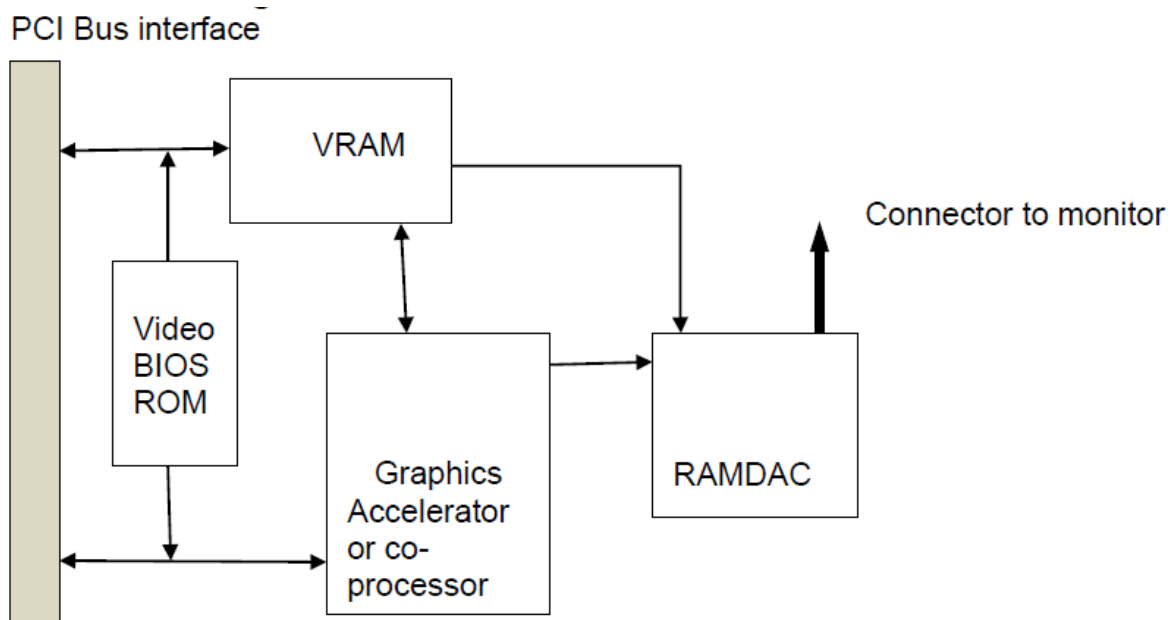
Liquid Crystal Monitor

- 1. Front Polariser 2, 6 Glass Plate / Electrodes 3,5 Liquid Crystal Alignment Layer**
4 Liquid Crystal 7 Rear Polariser and Reflector



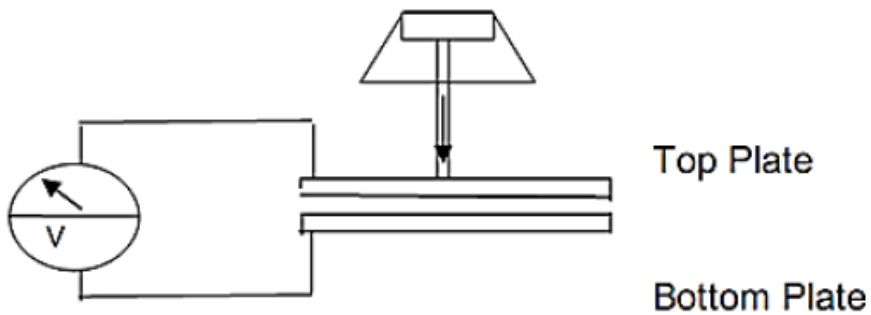
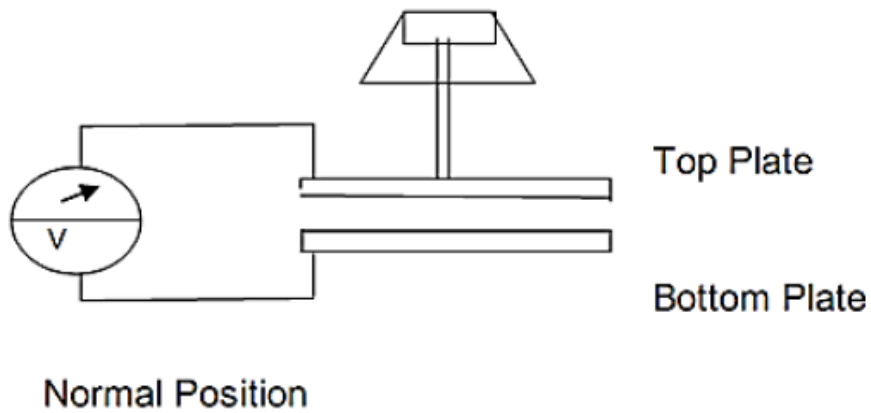
Plasma Display



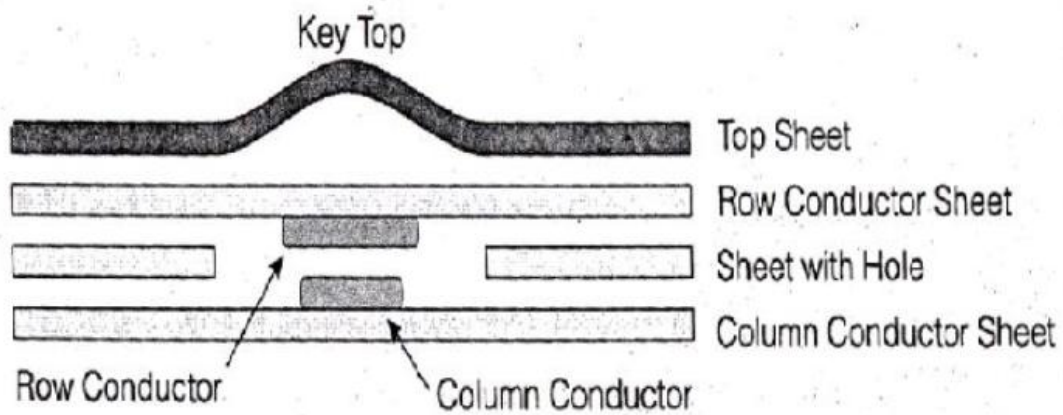


Chapter 4 Input and Output Devices

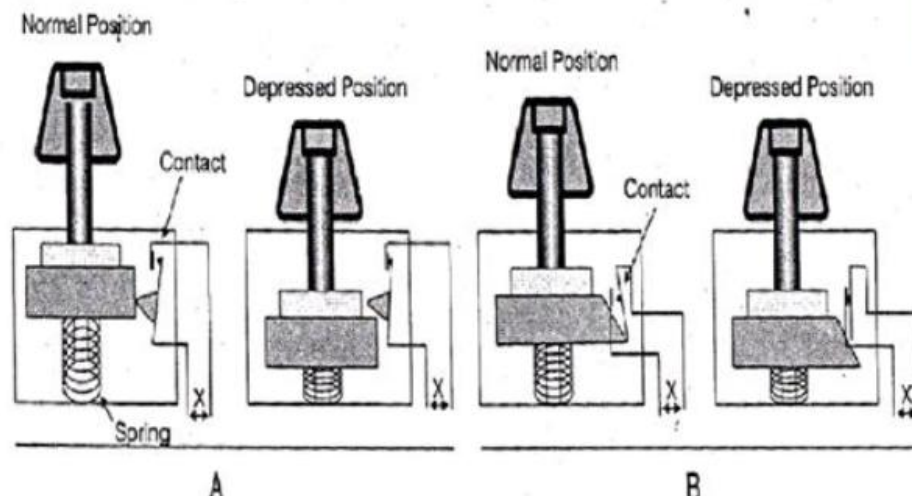
i) Capacitive Keyboard Switch



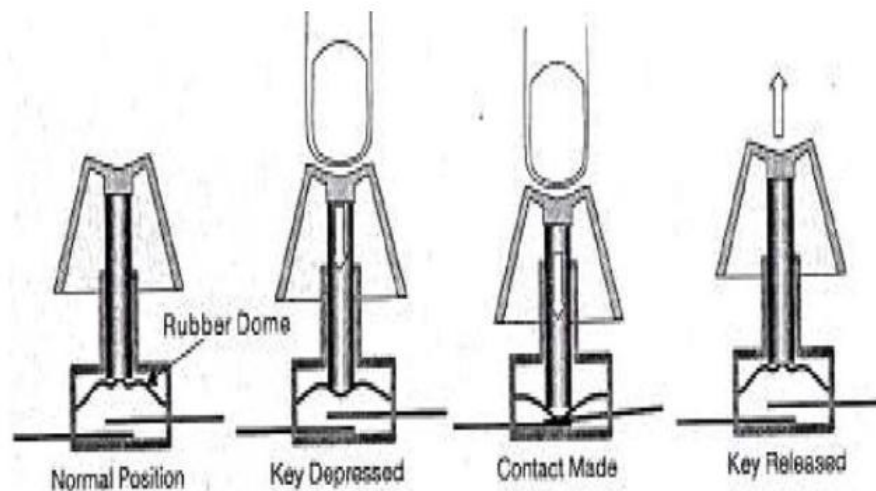
ii) **Membrane Keyboard Switch**



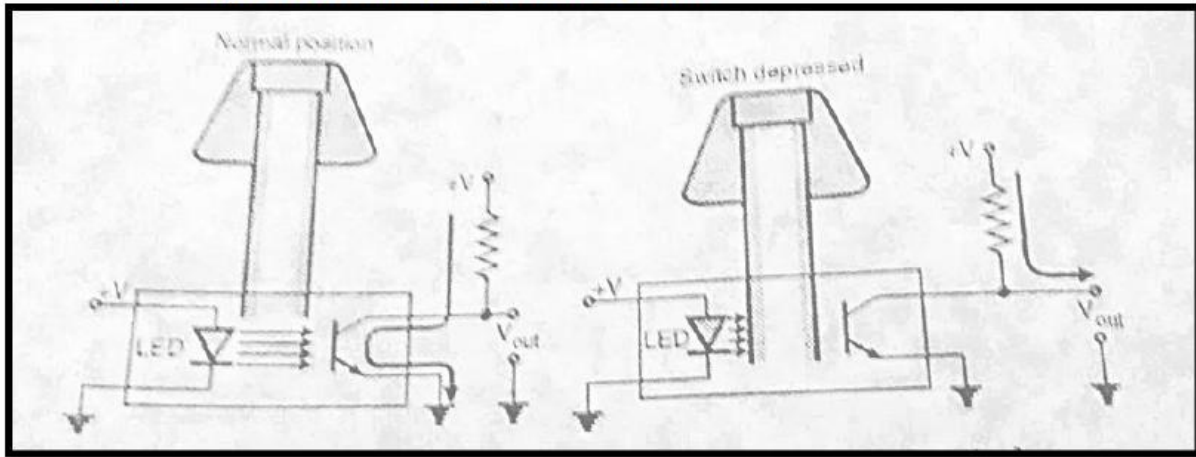
iii) **Mechanical Keyboard Switch**



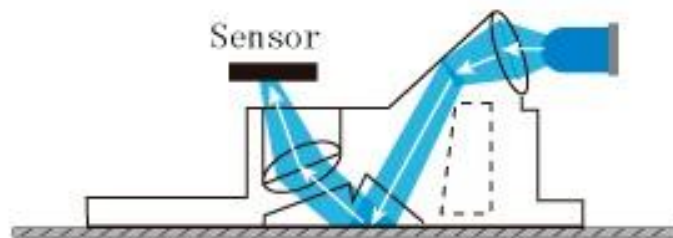
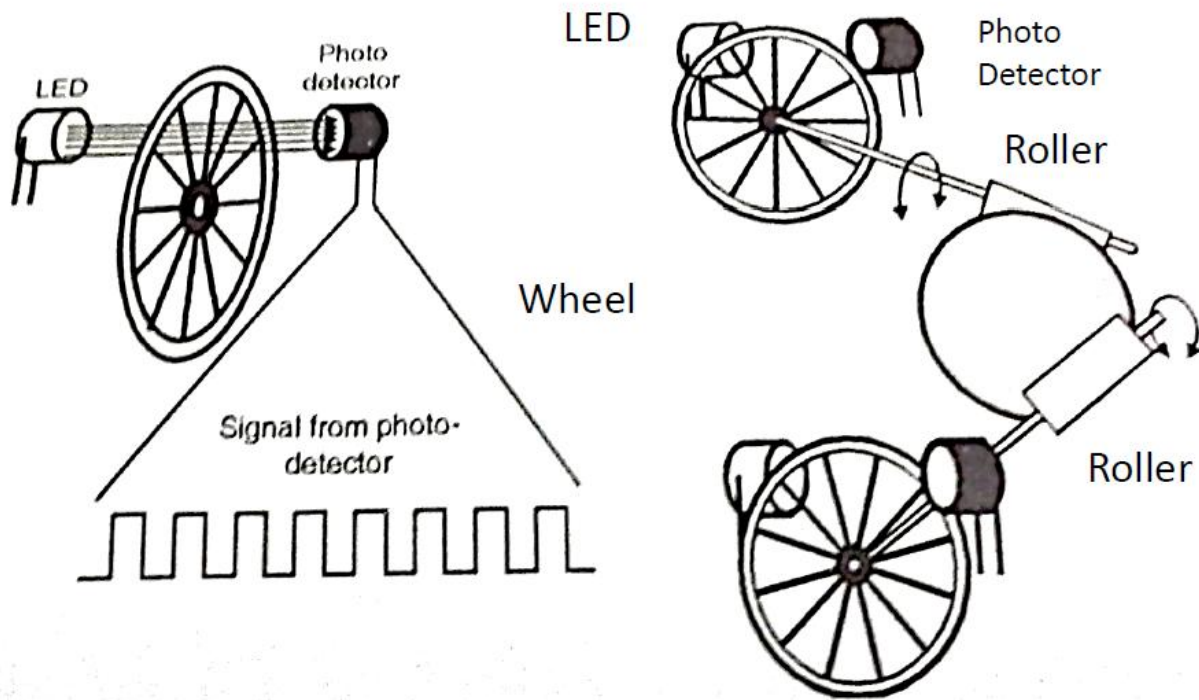
iv) **Rubber Dome Keyboard Switch**



v) **Opto-Electronic Keyboard Switch**

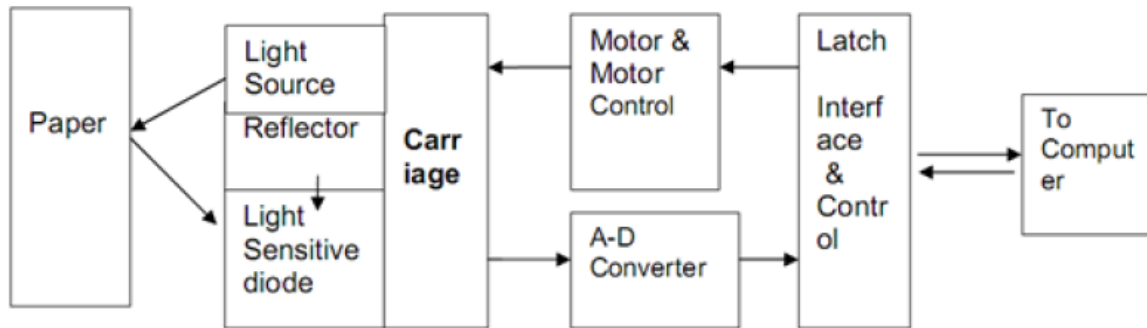


i) **Opto-Mechanical Mouse**

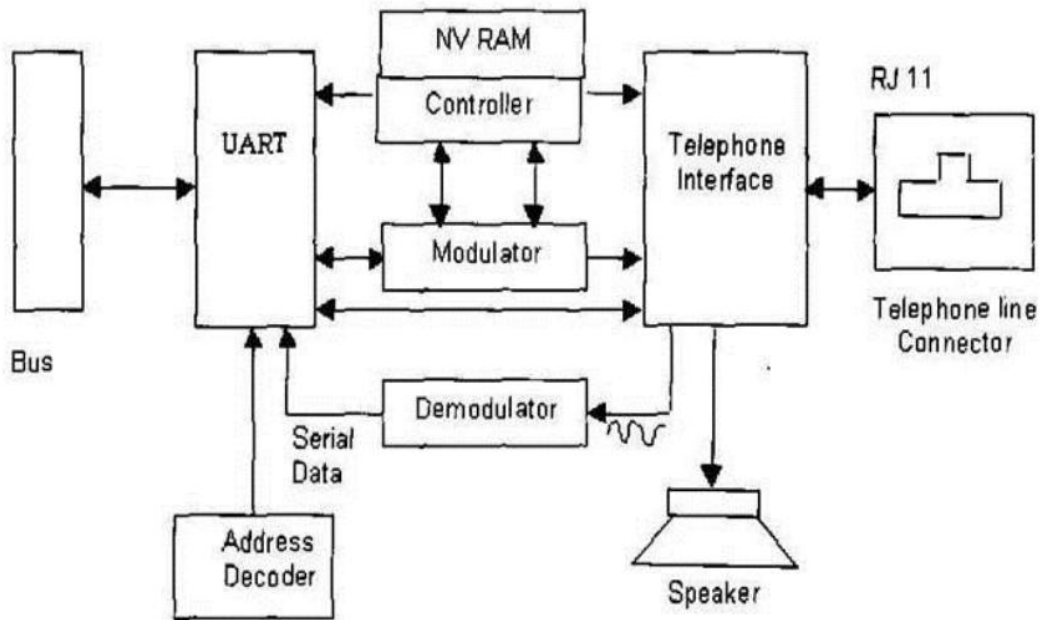


Optical Mouse

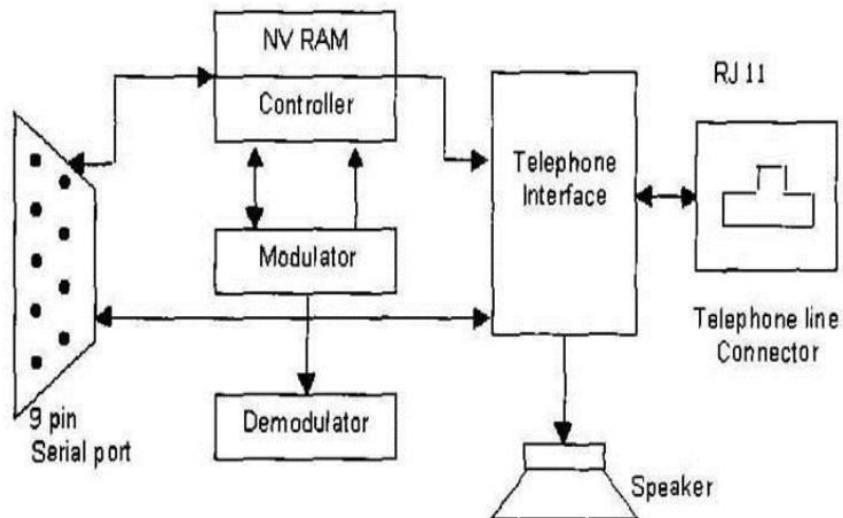
Block Diagram of Flat-Bed Scanner

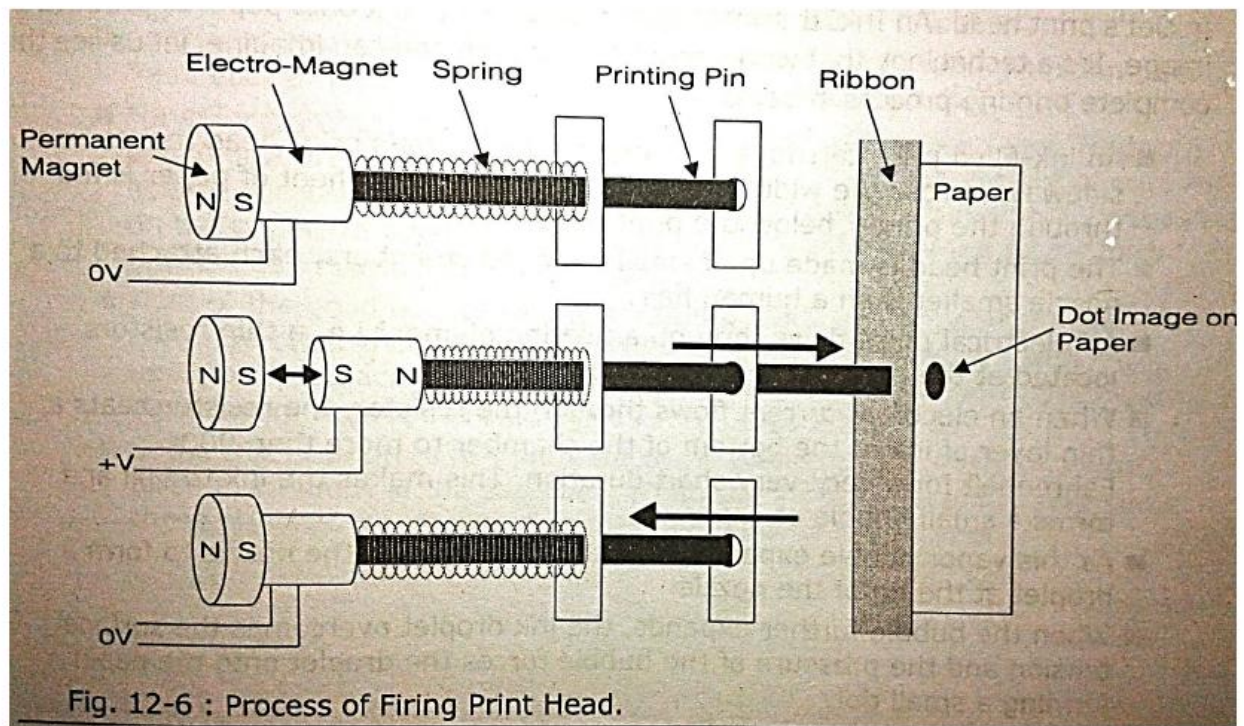


Internal Modem

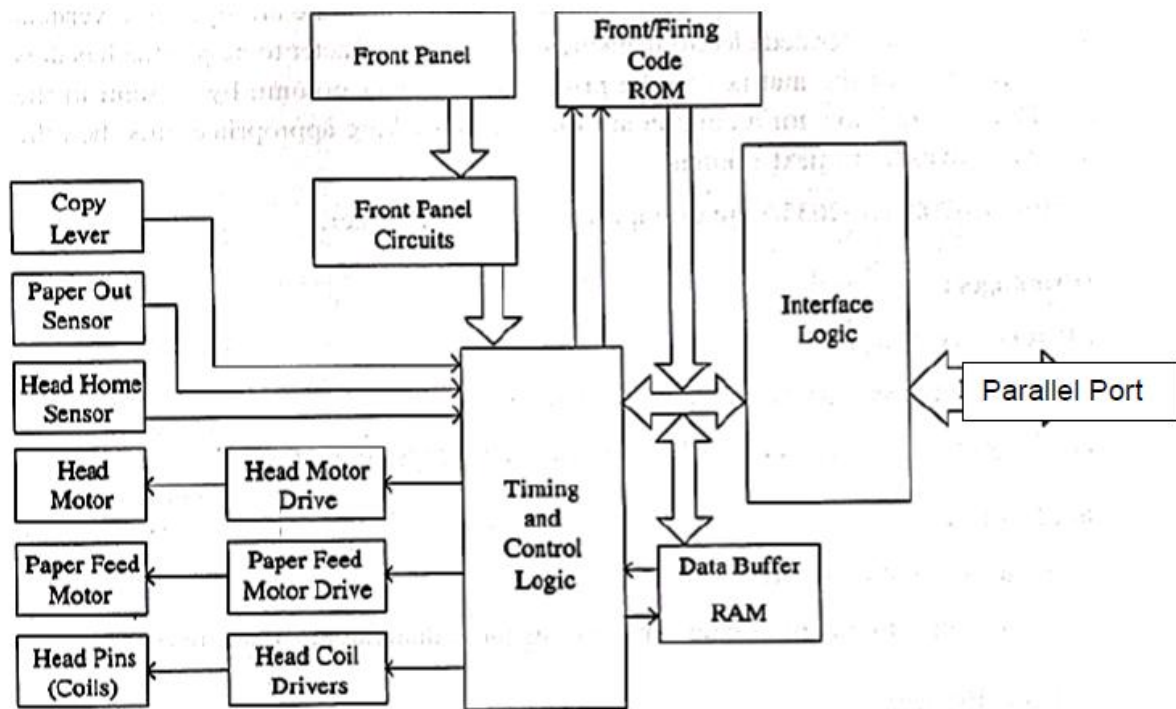


External Modem





BLOCK DIAGRAM OF A DOT MATRIX PRINTER



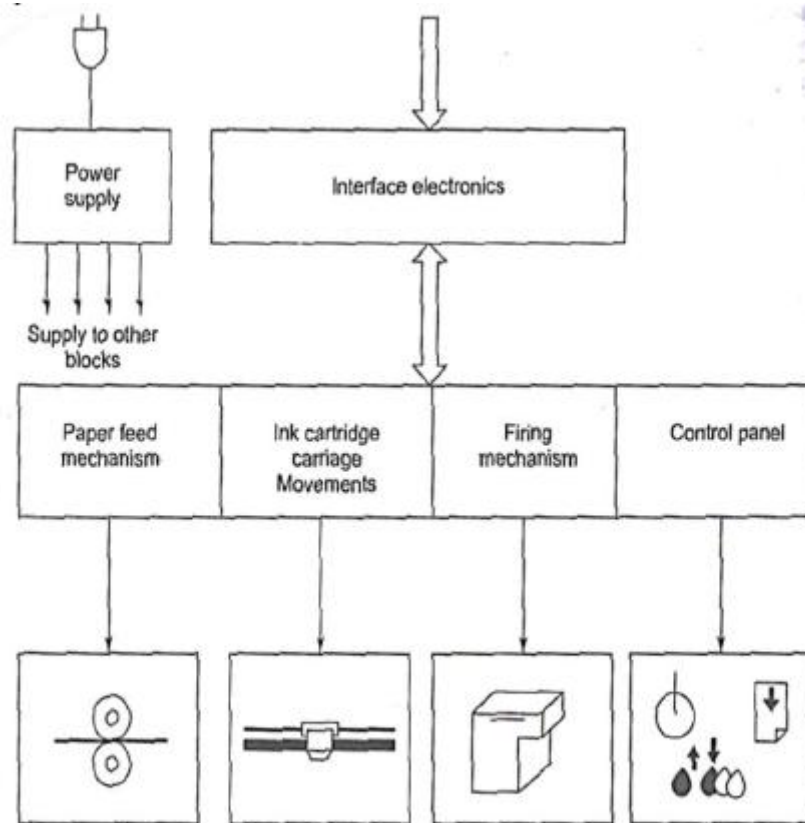


Fig. 11.2 Functional block diagram of ink-jet printer

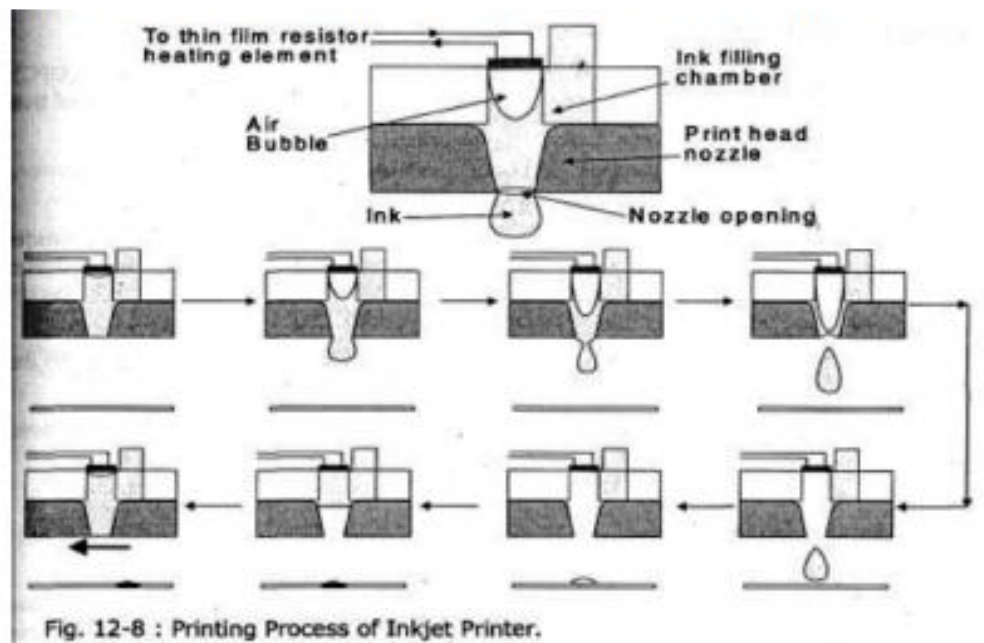
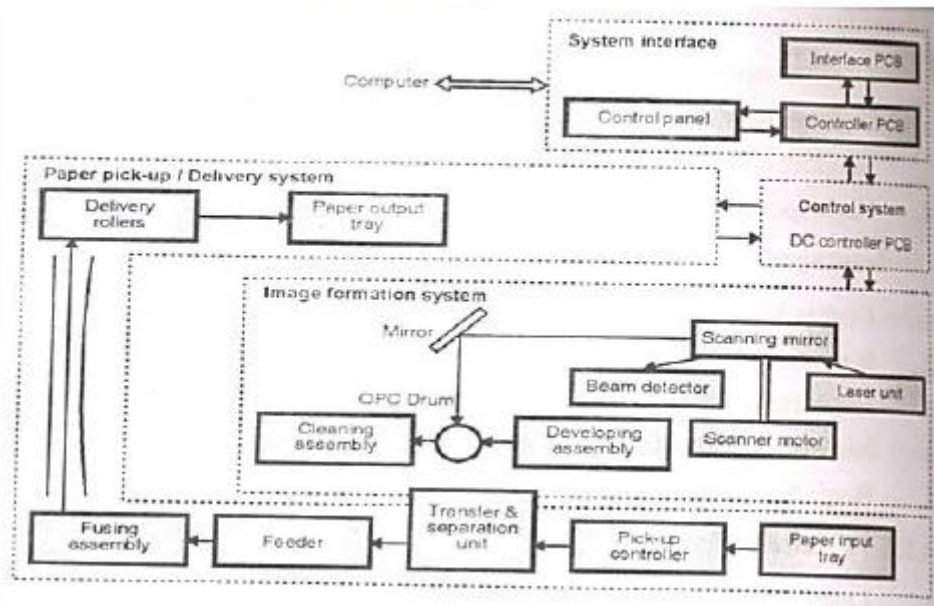


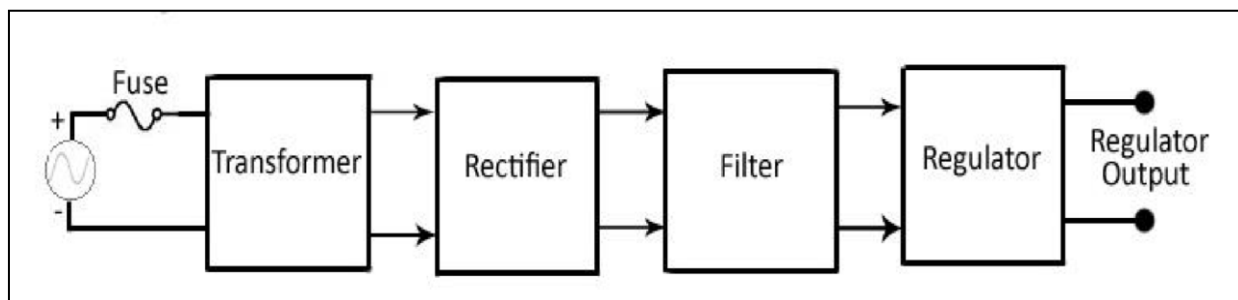
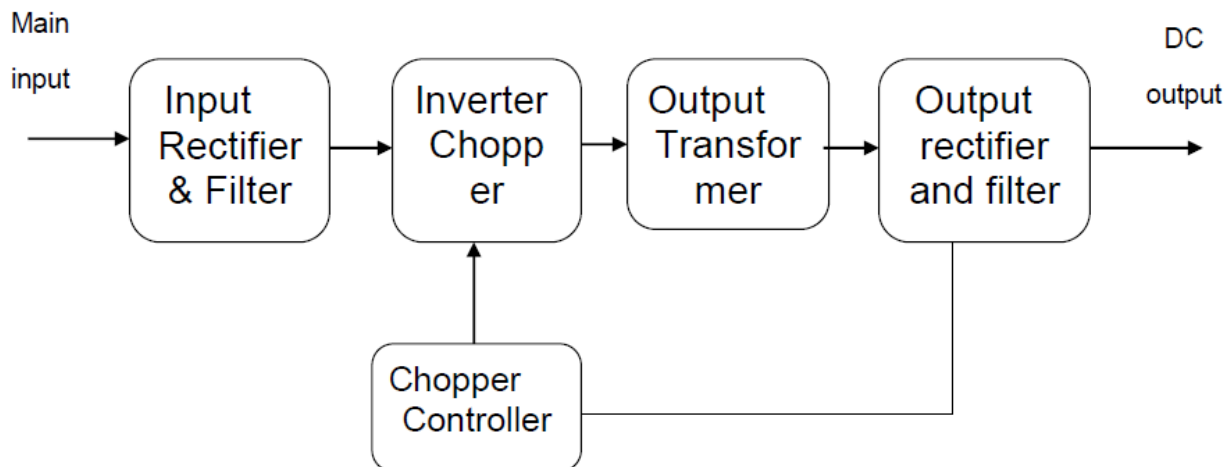
Fig. 12-8 : Printing Process of Inkjet Printer.

Block Diagram of Laser Printer



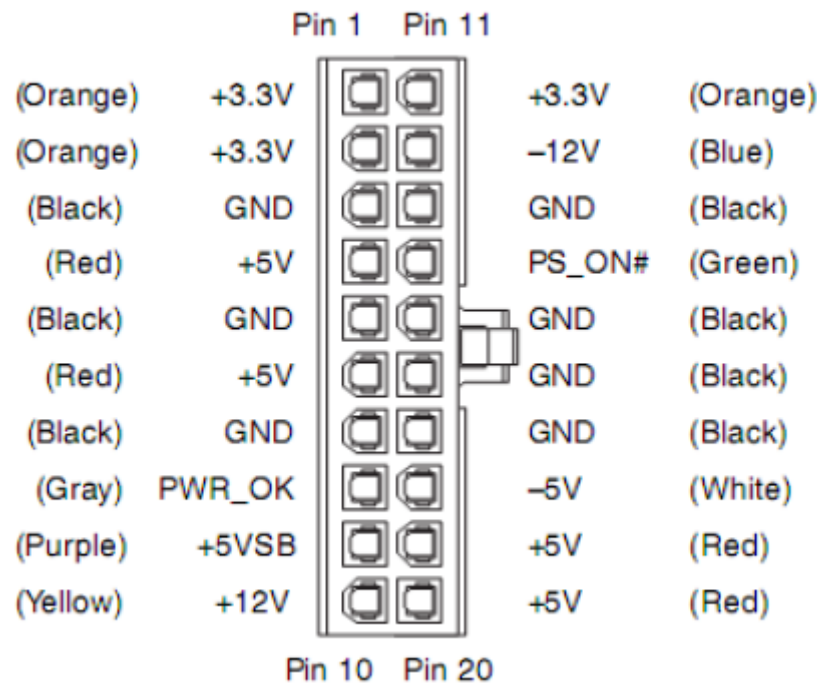
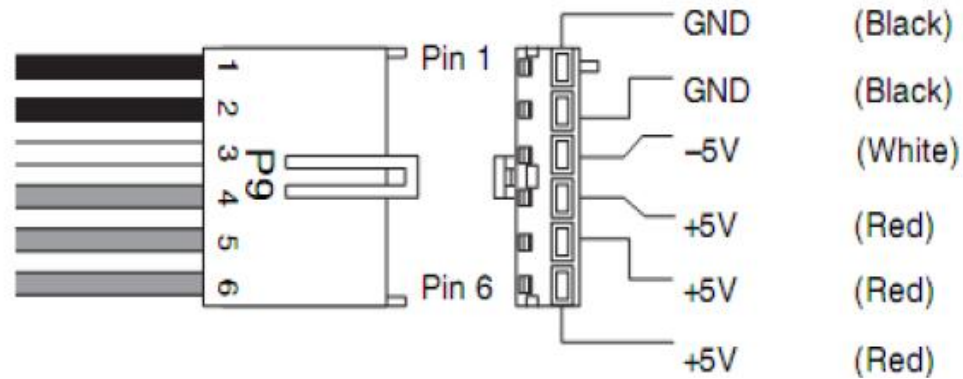
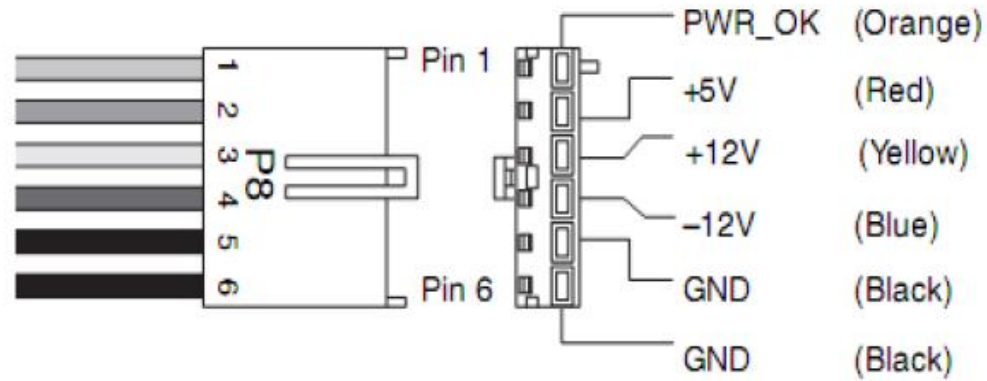
Chapter 5 Power Supplies

Block Diagram and Working of SMPS

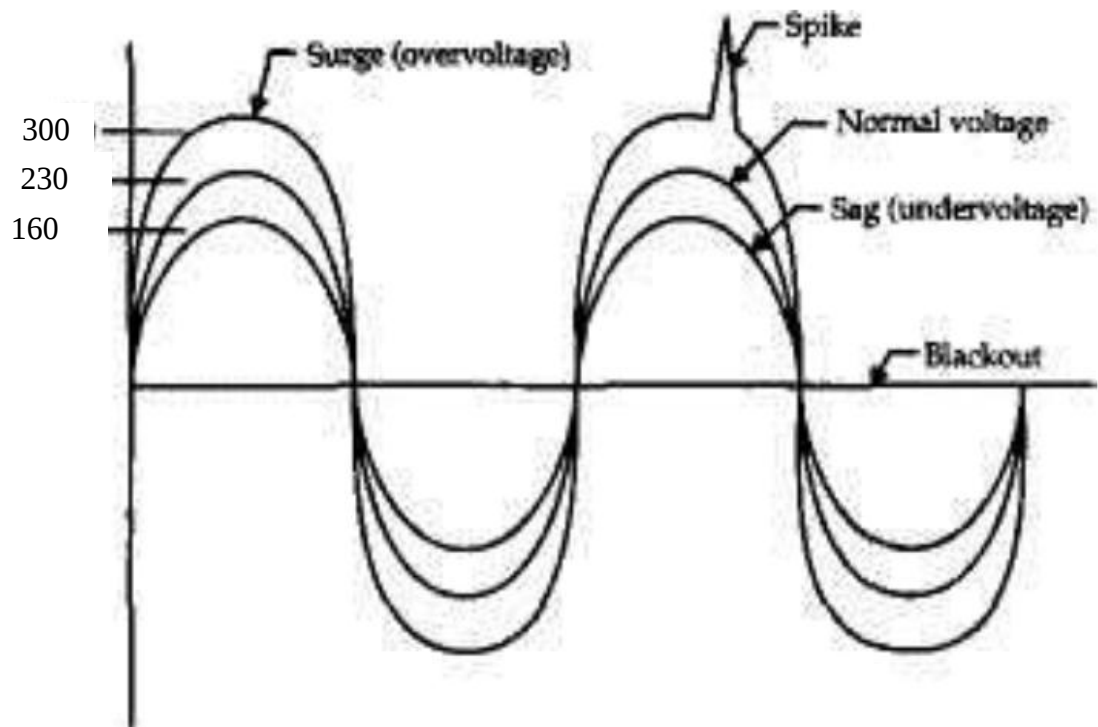


LMPS (Linear Mode Power Supply)

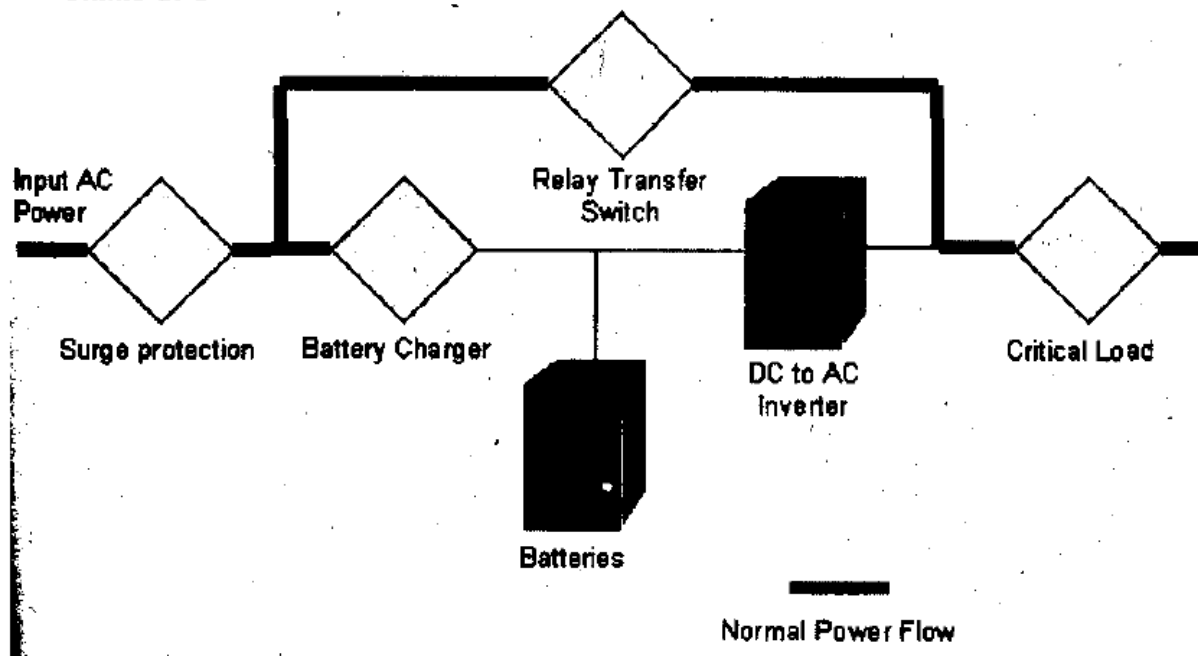
AT Style SMPS



Power Problems:

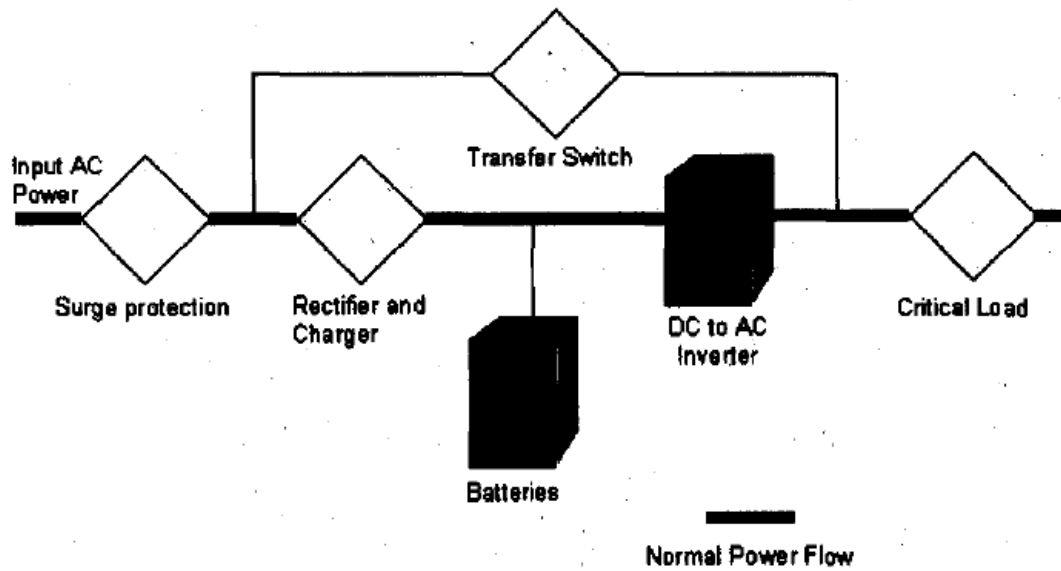


Offline UPS



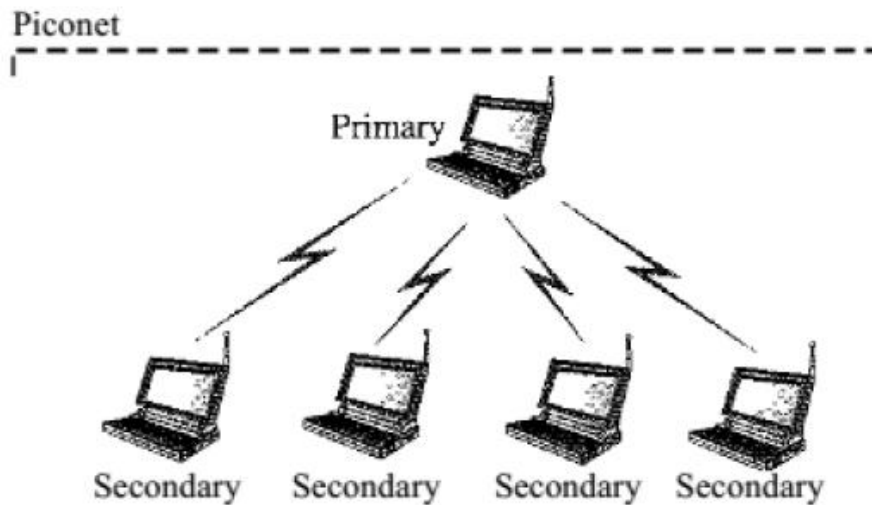
2. On-Line UPS

Online UPS

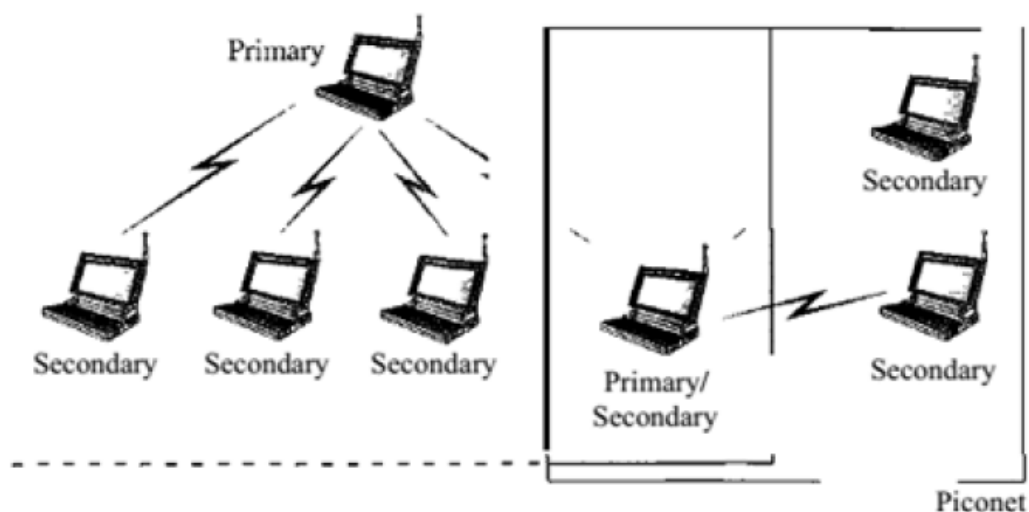


Ch. 6 Interfaces

Piconet



Piconet

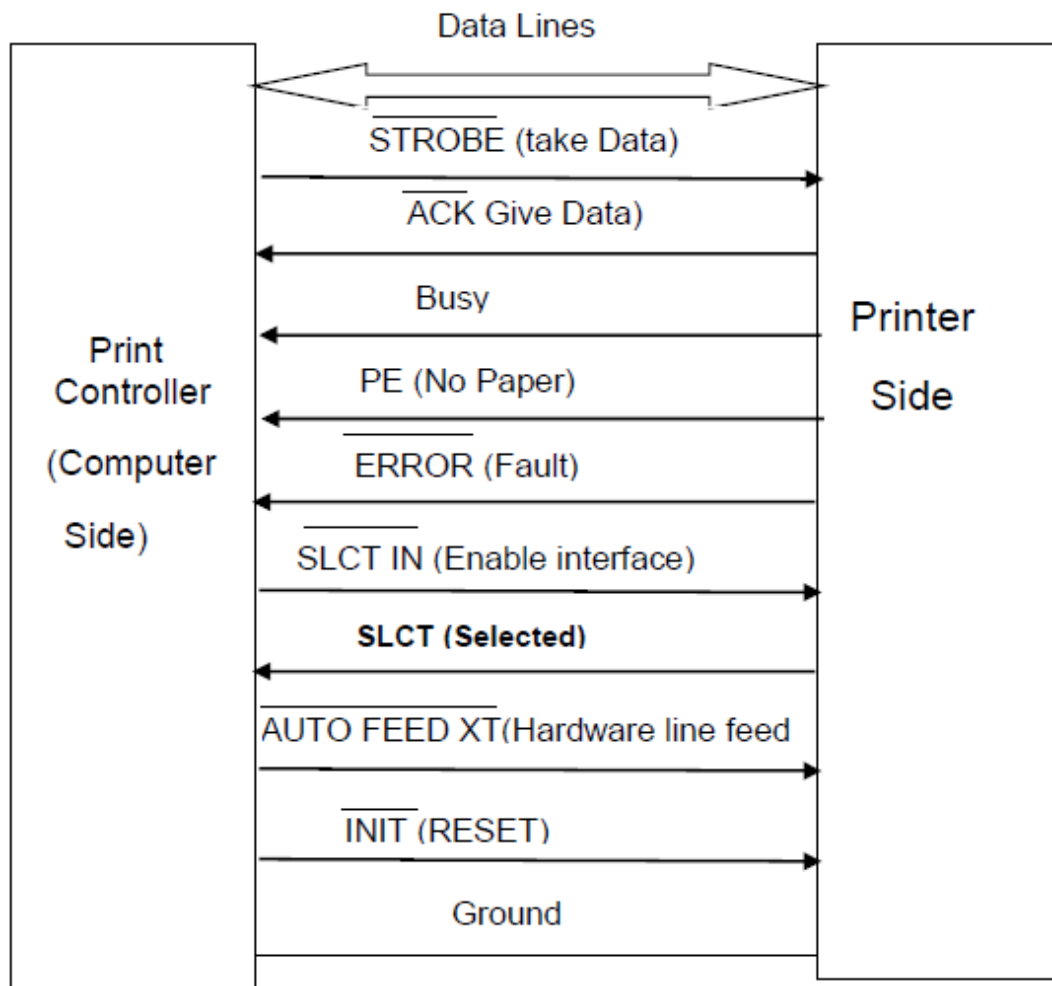


RS 232 Signals

COMPUTER

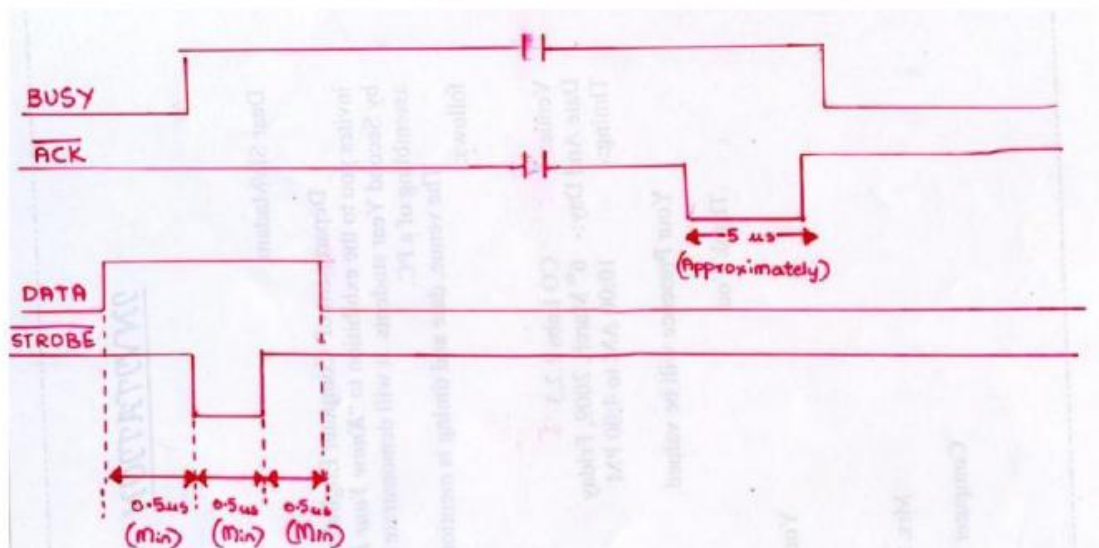
MODEM

DTE			DCE	
DB9	DB25		DB9	DB25
-	1	Protective GND	-	1
3	2	TxD →	3	2
2	3	RxD ←	2	3
7	4	RTS →	7	4
8	5	CTS ←	8	5
6	6	DSR ←	6	6
5	7	Signal GND	5	7
1	8	CD ←	1	8
4	20	DTR →	4	20
9	22	RI ←	9	22

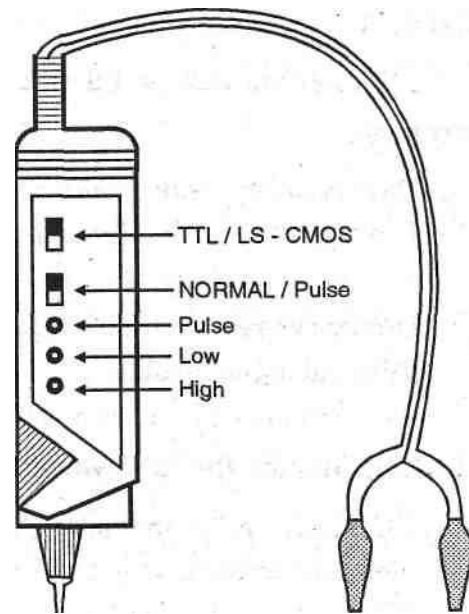
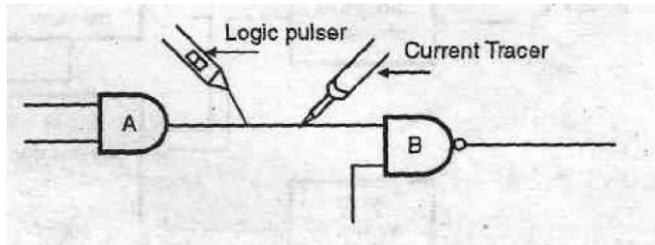


Signals in Centronics interface

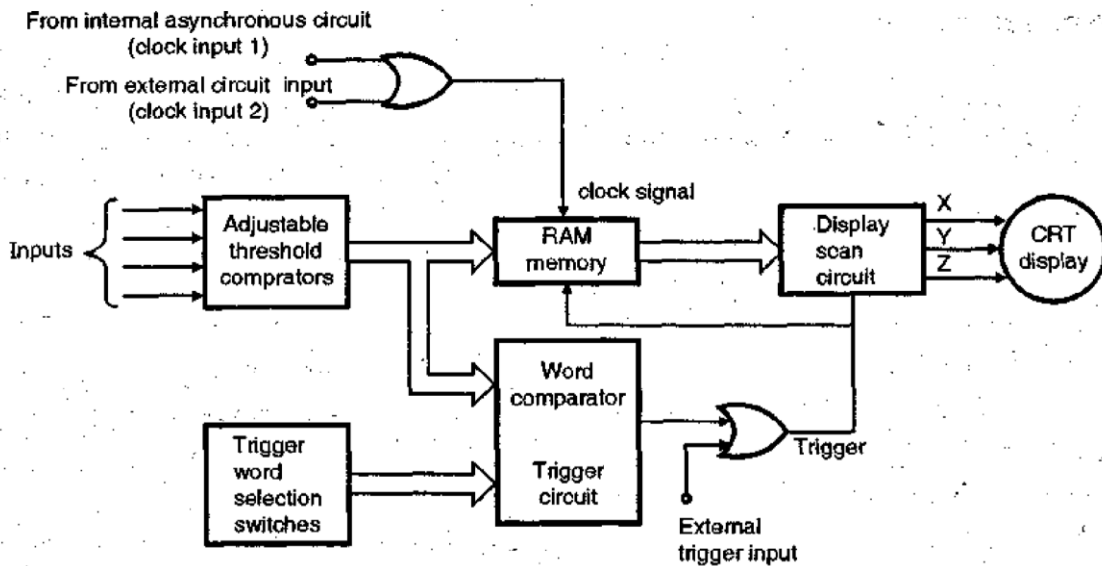
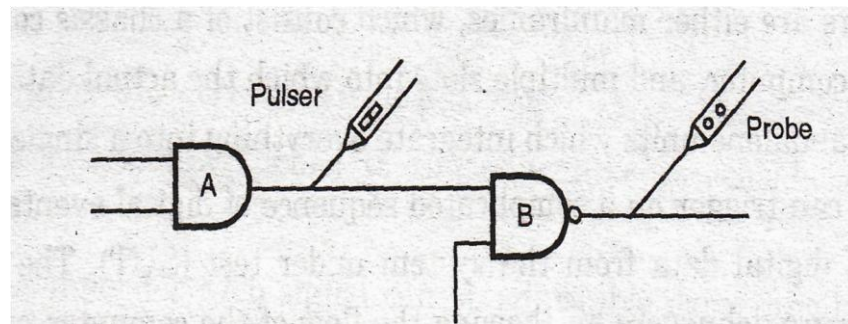
Centronics Interface Timing Diagram



Ch. 7 PC Troubleshooting, Maintenance and Tools



Logic Pulser



Logic Analyzer