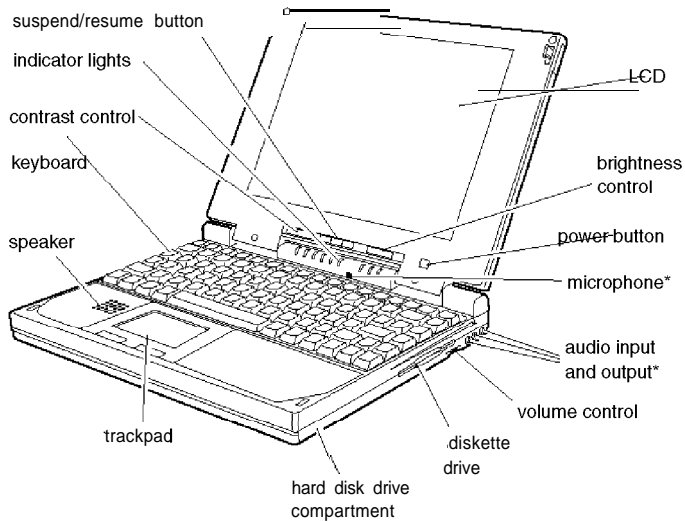
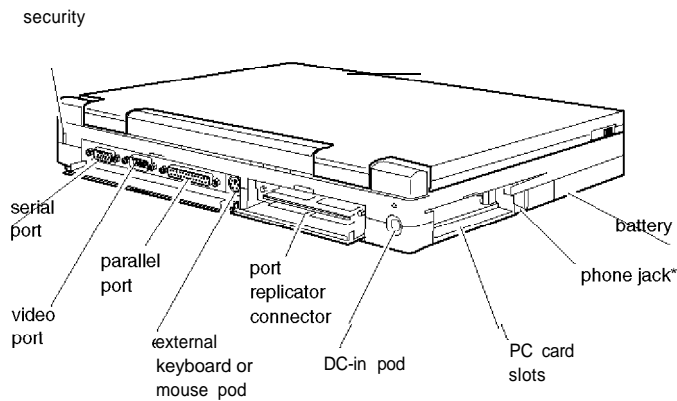


**Front View**



\* These parts function only with the optional audio card installed

**Rear Panel and Left Side**



\*Available only with the optional internal fax/modem installed

**Notebook Specifications**

**CPU and Memory**

**CPU** Upgradable 486 microprocessor installed in a PGA socket; includes 8KB of internal cache in write-back mode and integrated math coprocessor

**System speed** Fast speed and slow speed (8 MHz) available; speed selection through Setup

**Memory** 4MB RAM soldered on the system board; configuration may include additional memory module; expandable up to 24MB using a 4,8,16, or 20MB memory expansion module

**ROM** 128KB Flash ROM device containing the system and video BIOS and Setup program code

**Video RAM** 512KB DRAM supports resolutions up to 640 x 480 in 256 colors on the color LCD and up to 1024 x 768 in 16 colors or 800 x 600 in 256 colors on external monitor

**Cache** 8KB internal; supports 256KB of external cache on a CPU daughterboard; selectable through Setup

**Clock/ calendar** Real-time clock, calendar, and CMOS RAM; backed up by internal battery

**Controllers**

**Video** Chips and Technology® 65535 video controller; 32-bit local bus interface to the microprocessor; supports enhanced video modes on an external monitor; supports resolutions from 640 x 480 in 256 colors on the color LCD and up to 1024 x 768 in 16 colors on an external monitor; automatic external monitor detection; simultaneous display with LCD screen using Fn F10 command or software

**Diskette drive** Built-in super I/O controller for one internal 3.5-inch diskette drive; supports 720KB and 1.44MB formats

**Hard disk** Built-in super I/O controller has interface to one 2.5-inch, IDE internal hard disk drive; automatically recognizes and configures drives up to 19 mm high that support the IDE interface

**PCMCIA** Built-in Vadem® VG-468 controller for two stacked slots; supports two Type I or II cards, or one Type III; PCMCIA version 2.01 and JEIDA 4.1 compatible; supports low power and suspend modes; supports hot insertion (including ExCA standards); register compatible with Intel 82365SL

**Interfaces**

**External VGA** Auto-sensing, 15-pin, D-sub, female connector for analog monitor

**Parallel** Centronics® compatible; 25-pin, D-sub, female connector; standard S-bit parallel; supports standard (AT compatible) and bidirectional (PS/2 compatible) modes

Serial	RS-232C, programmable, asynchronous, 9-pin, D-sub male connector
External keyboard/ mouse	Auto-sensing, 6-pin mini-DIN connector for a PSI 2-type external keyboard, keypad, or pointing device
Phone jack	Standard RJ-11 connector with optional internal fax/ modem installed
Speaker	Internal; automatically disabled when optional audio card is installed and Line-out is used
Audio input and output	Connectors for microphone, Line-in, and Line-out when optional audio card is installed
Port replicator	Connector for ActionPort™ replicator

**Keyboard** 85 keys; 101-key keyboard compatible; embedded numeric keypad; **Fn** key for hot key commands

**Trackpad** Built-in pointing device with two buttons

**Fax/Modem** Optional internal 14.4 baud send/ receive fax/ modem

**Volume Control** Knob adjusts sound of internal speaker or audio card (if installed)

**Mass Storage**

Hard disk drive One removable internal IDE hard disk drive, 2.5-inch form factor; maximum height 19 mm; Setup automatically recognizes and configures drives that support the IDE interface; parameters for the Toshiba MK1824FCV are as follows:

Capacity	335MB	Sectors	63
Heads	16	WP Com	0
Cylinders	682	Landing Zone	682

Diskette drive Internal 3.5-inch diskette drive; 720KB or 1.44MB format; supports lower power consumption

**LCD Screen**










Screen type (all backlit)	Monochrome	Passive color	Active color
Resolutions and colors	640 x 480, 64 gray shades	640 x 480 256 colors	640 x 480 256 colors
Diagonal measurement	9.4 inches	10.3 inches	10.4 inches

**Setup Program** Stored in ROM; accessible by pressing F8 at system startup; includes power management utilities

**Software**

Latest versions of MS-DOS® and Microsoft Windows™, Borland® SideKick® for Windows; ClarisWorks® for Windows; trial versions of CompuServe® WinCIM,® America Online,® and OAG FlightDisk;® drivers and utilities for PCMCIA card slots, video system, and trackpad; on-line version of User's Guide, Windows manual, and other manuals; power management utilities; all installed on the hard disk drive; refer to Software Support Card for details on EPSON's support policy

**LED Panel**

Icon	Name	Meaning
	Power	Computer is on
	Suspend	Green -Standby mode; press any key to return to full power Flashing green -Suspend mode; press Suspend/Resume button to return to full power
	Charge	Orange -battery is charging normally Green -battery is fully charged Flashing orange -battery is not installed correctly or is damaged
	Diskette drive	Computer is accessing the diskette drive
	Hard disk drive	Computer is accessing the hard disk drive
	PCMCIA	Computer is accessing a PC card
	Num Lock	Num Lock is on, which activates the embedded numeric keypad
	Caps Lock	Caps Lock is on
	Scroll Lock	Scroll Lock is on

**Power Sources**

AC adapters

Specification	Lightweight AC adapter (A882051)	International AC adapter (A882101)
AC connection	2 folding connectors	6 ft (2 meter) cable
DC cable	6 ft (2 meters)	6 ft (2 meters)
Input voltage	100 VAC to 240 VAC	100 VAC to 240 VAC
Input frequency	50/60 Hz	50/60 Hz
Output voltage	19 VDC, 1.23 Amp maximum	19 VDC, 1.5 Amp maximum
Length	3.4" (86 mm)	3.4" (86 mm)
Width	2.2" (56 mm)	2.2" (56 mm)
Height	1.1" (28 mm)	1.1" (28 mm)
Weight	7.8 oz (220 g)	9 oz (255 g)

Battery Rechargeable 12 Volt NiMH battery; current regulation by thermistor

**Caution**  
Use only the adapters and replacement batteries designed for use with the ActionNote 800 series (lightweight AC adapter A882051, international AC adapter A882101, auto adapter A882241, and battery A882291).

**Environmental Requirements**

Condition	Operating	Non-operating
Temperature	42° to 95° F (5° to 35° C)	-4° to 140° F (-20° to 60° C)
Humidity (non-condensing)	30% to 90%	5% to 95%
Altitude	--200 to 12,000 ft (--67 to 4,000 m)	--200 to 30,000 ft (--67 to 9,000 m)
Acoustical noise	35 dB @ 1 meter (maximum)	

**Caution**  
When traveling by airplane, take the computer into the passenger compartment to prevent it from being stored in an unpressurized storage compartment.

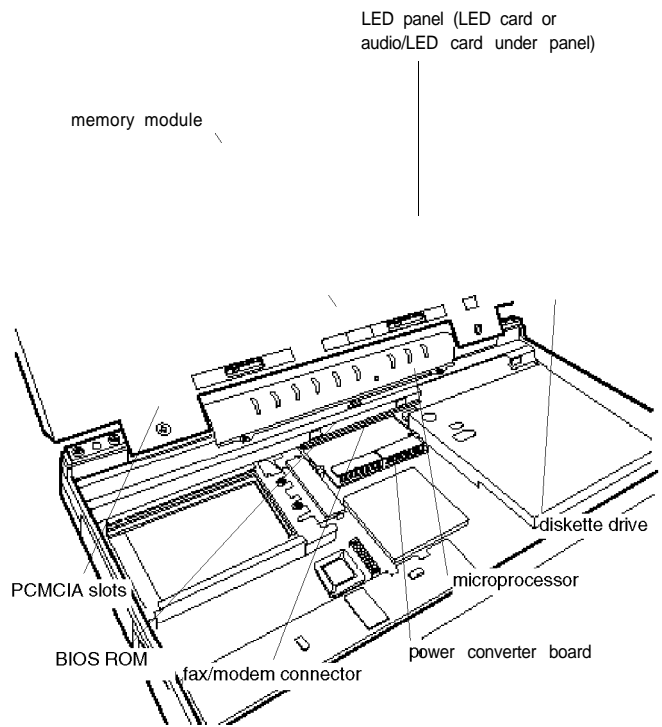
**Physical Dimensions**

Model	Depth		Width		Height		Weight	
	in.	mm	in.	mm	in.	mm	lb	kg
Monochrome	8.8	220	11.7	292	1.6	40	5.5	2.5
Color	8.8	220	11.7	292	1.7	43	6	2.7

**Optional Equipment**

- 4MB, 8MB, 16MB, or 20MB memory expansion module
- 520MB removable hard disk drive
- 14.4 internal data fax/ modem
- 16-bit stereo audio card
- Additional NiMH batteries
- Extra AC adapter or international AC adapter
- Adapter for an automobile cigarette lighter
- External battery charger
- External keyboard
- Numeric keypad
- PCMCIA Type I, II, and III cards including flash RAM, SRAM, modem, fax/ modem, and LAN cards
- ActionPort Replicator.

**Major Subassemblies**



**Memory Module Installation**

The computer comes with 4MB of memory soldered on the system board. If it has more than 4MB of memory, it already has a memory module installed. Run the Setup program to check the amount of memory installed. You can increase the memory up to 24MB by removing the original module if necessary and installing a 4, 8, 16, or 20MB memory module.

**Microprocessor Upgrades**

The computer's processor can be upgraded by replacing the original microprocessor with a higher-performance one. The PGA socket on the main board can accept both a processor on a daughter board and a processor installed directly in the socket. A processor on a daughterboard may include 256KB of external cache; all supported processors include 8KB of internal cache. The following table lists the speed and voltage of some of the microprocessors that can be installed.

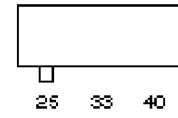
*Microprocessor voltage and frequency*

Microprocessor	SUPPLY Voltage (V)	Internal frequency (MHz)	External frequency (MHz)
Intel DX4/75	3.3	75	25
Intel DX4/100	3.3	100	33
Cx486DX2-V80	4.0	80	40

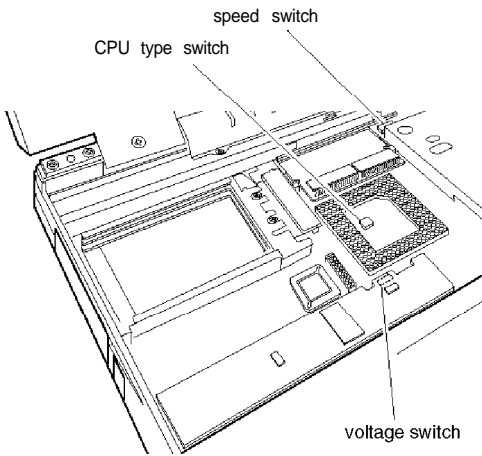
**Caution**

When installing a new microprocessor, note that two holes are labeled "pin 1." If you are installing a processor chip directly in the socket, insert pin 1 in the second row of holes from the right. You will see an empty row of holes in the socket to the right of the chip. If you are installing a processor on a daughterboard, insert pin 1 in the outer row of holes.

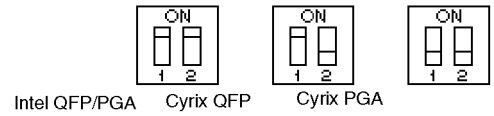
*Processor speed switch*



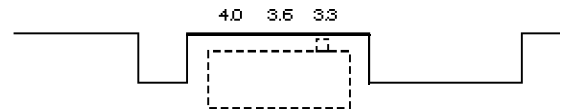
**Microprocessor Switches**



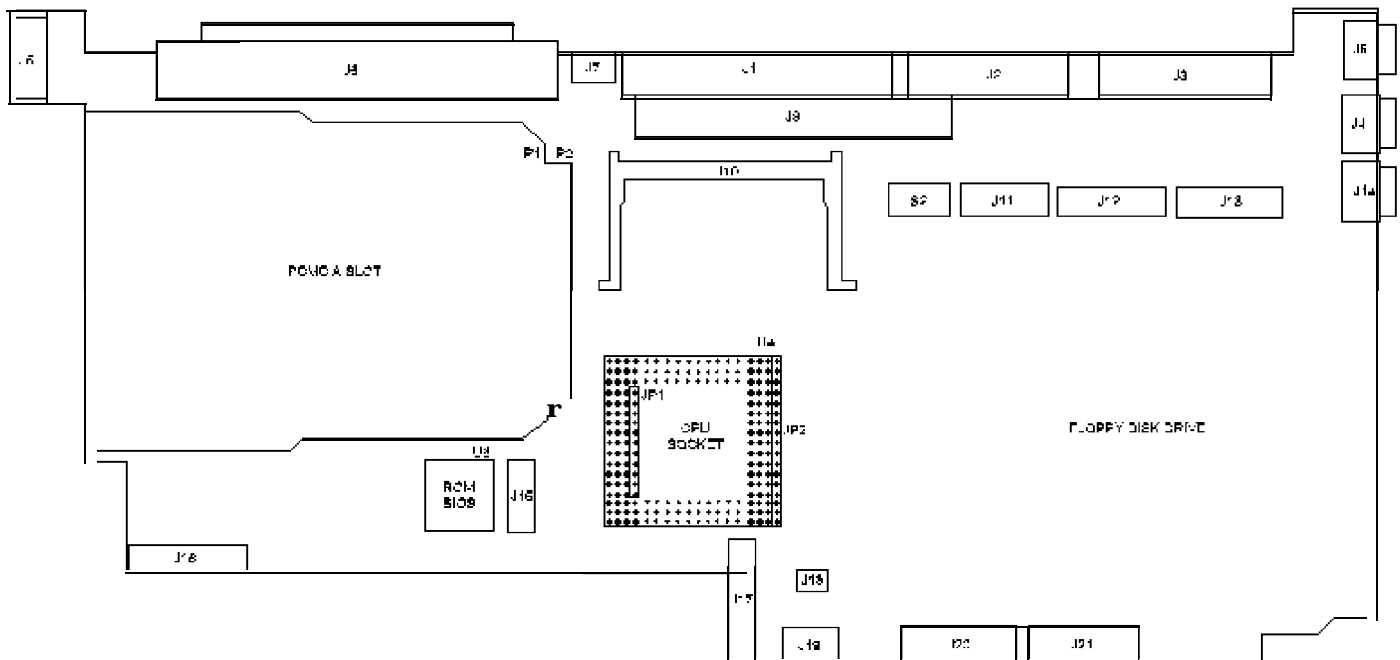
*CPU type switch*



*Voltage switch*



**System Board Components**



*System Board Components*

U4	Microprocessor
U6	ROM BIOS
J1	Parallel pod connector
J2	Serial port connector
J3	VGA connector for external monitor
J4	Audio-In connector
J5	AC adapter connector
J6	Port replicator connector
J7	External keyboard/mouse connector
J8	Microphone connector
J9	LED and audio card connector
J10	Memory module connector
J11, J12, J13	LCD connectors
J14	Audio-Out connector
J15	Fax/modem connector
J16, J17	Main board connectors to power converter
J18	Speaker connector
J19	Trackpad connector
J20, J21	Internal keyboard connectors
J22	Diskette drive connector
J23	Hard disk drive connector
JP1, JP2	Daughterboard connectors
P1, P2	PCMCIA connectors
S1	Processor switch
S2	Speed selection switch
S4	CPU selection switch

**Connector Pin Assignments**

*Parallel Port Connector (J1)*

Pin No.	Signal Name	Pin No.	Signal Name
1	NC	14	AUTO FEED XT
2	DO	15	ERROR
3	D1	16	INIT
4	D2	17	SLCT IN
5	D3	18	GND
6	D4	19	GND
7	D5	20	GND
8	D6	21	GND
9	D7	22	GND
10	ACK	23	GND
11	BUSY	24	GND
12	PE	25	PRT SEL
13	SLCT		

*Serial Port Connector(J2)*

Pin	Signal	Pin	Signal	Pin	Signal
	Carrier Detect	4	Data Terminal Ready	7	Request to Send
2	Receive Data	5	Signal Ground	8	Clear to Send
3	Transmit Data	6	Data Set Ready	9	Ring Indicator

*VGA Connector for an External Monitor (J3)*

Pin	Signal	Pin	Signal	Pin	Signal
1	Red	6	Ground	11	NC
2	Green	7	Ground	12	NC
3	Blue	8	Ground	13	Horizontal Sync
4	NC	9	NC	14	Vertical Sync
5	Ground	10	Ground	15	NC

*Power Converter Board Connector (22-pin male)*

Pin No.	Signal Name	Description
1 to 4	GND	Ground
5	PSW	Indicates the power switch
6	GND	Ground
7	DOCKON	Indicates port replicator status
8	SUSHDD	HIGH (active) when system is entering suspend to hard disk mode
9	SUSCH	HIGH (active) when system is entering suspend to DRAM mode
10	DOCKSW	HIGH (active) when pod replicator is installed
11	INVPWR	For the inverter power source
12 to 14	+5 v	For the system operating voltage
15	+3 v	For the system operating voltage
16	+12 v	For the flash ROM, etc.
17	+3 v	Same as pin 15
18	CHGLED	An output pin to drive the green LED
19	INVPWR	Same as pin 11
20 to 22	VA	A constant voltage form AC adapter

Pin No.	Signal Name	Description
1 to 4	VA	Constant voltage from AC adapter
5	CHGLED	Output pin to drive the orange LED
6	SWITCH	To power on DC/DC converter
7	PWRON	Reserved
8	NC	No connection
9	NC	No connection
10	PWROFF	To bower off DC/DC converter
11 to 14	GND	Ground

# EPSON ActionNote 800 Series

## External Keyboard/Mouse Connector (J7)

Pin	Signal	Pin	Signal	Pin	Signal
1	AUX-DATA	3	GND	5	AUX-CLK
2	NC	4	+5 V	6	NC

## Microphone Connector (J8)

Pin	Signal	Pin	Signal	Pin	Signal
1	AGND	3	BMIC	5	MICIN
2	MICIN	4	BMIC		

## Fax/Modem Connector (J15)

Pin No.	Signal	Pin No.	Signal
1	TRIS	12	GND
2	GND	13	DSR2
3	PTS2	14	VCC5
4	VCC5	15	SPK
5	DCD2	16	MIC
6	SOUT2	17	SPK
7	DTR2	18	GND
8	SIN2	19	GND
9	PI2	20	GND
10	GND	21	LT
11	CTS2	22	NC

## Speaker Connector (J18)

Pin	Signal	Pin	Signal
1	GND	2	SPK

## FDD Connector (522)

Pin No.	Signal Name	Pin No.	Signal Name
1	VCC5	11	GND
2	INDEX	12	WDATA
3	VCC5	13	GND
4	DR0	14	WGATE
5	VCC5	15	GND
6	DSKCHG	16	TRK0
7	MEDIA0	17	GND
8	MTR0	18	WRTPRT
9	DIR	19	RDATA
10	STEP	20	HDSEL

## HDD IDE Connector (J23)

Pin No.	Signal Name	Pin No.	Signal Name
1	RESET DRV	21	GND
2	GND	22	IOWR
3	IDE D7	23	GND
4	GND	24	IORD
5	SD8	25	GND
6	SD6	26	IOCHRDY
7	SD9	27	IRQ14
8	SD5	28	IOCS16
9	SD10	29	SA1
10	SD4	30	GND
11	SD11	31	GND
12	SD3	32	SA0
13	SD12	33	SA2
14	SD2	34	HCS0
15	SD13	35	HCS1
16	SD1	36	HDDLED
17	SD14	37	VCC5
18	SD0	38	VCC5
19	SD15	39	GND
20	GND	40	VCC5

## Memory Module Connector (J10)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	19	MA10	37	MD16	55	NC
2	MD0	20	NC	38	MD17	56	MD24
3	MD1	21	MD8	39	GND	57	MD25
4	MD2	22	MD9	40	CAS0	58	MD26
5	MD3	23	MD10	41	CAS2	59	MD28
6	MD4	24	MD11	42	CAS3	60	MD27
7	MD5	25	MD12	43	CAS1	61	VCC
8	MD6	26	MD13	44	RAS0	62	MD29
9	MD7	27	MD14	45	RAS1	63	MD30
10	VCC	28	MA7	46	MA12	64	MD31
11	PD1	29	MA11	47	WE	65	NC
12	MA0	30	VCC	48	MA13	66	PD2
13	MA1	31	MA8	49	MD18	67	PD3
14	MA2	32	MA9	50	MD19	68	PD4
15	MA3	33	RAS3	51	MD20	69	PD5
16	MA4	34	RAS2	52	MD21	70	PD6
17	MA5	35	MD15	53	MD22	71	PD7
18	MA6	36	NC	54	MD23	72	GND

PCMCIA Connector (P1 and P2)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	18	VPP1	35	GND	52	VPP2
2	D3	19	A16	36	CD1	53	A22
3	D4	20	A15	37	D11	54	A23
4	D5	21	A12	38	D12	55	A24
5	D6	22	A7	39	D13	56	A25
6	D7	23	A6	40	D14	57	RFU
7	CE1	24	A5	41	D15	58	RESET
8	A10	25	A4	42	CE2	59	WAIT
9	O $\bar{E}$	26	A3	43	RFSH	60	INPACK
10	A11	27	A2	44	IORD	61	REG
11	A9	28	A1	45	IOWR	62	BVD2
12	A8	29	A0	46	A17	63	BVD1
13	A13	30	D0	47	A18	64	D8
14	A14	31	D1	48	A19	65	D9
15	WE/ PGM	32	D2	49	A20	66	D10
16	RDY/ BSY	33	WP	50	A21	67	CD2
17	VCCX	34	GND	51	VCCX	68	GND

LED Card and Audio Card Connector (J9)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	NUM	16	SA0	31	IOWR	46	LIN11
2	PCMLED	17	SD2	32	SA8	47	12 V
3	SCR	18	SA1	33	DRQ0	48	AGND
4	PRON/ BL	19	SD3	34	SA9	49	IRQ5
5	CAPS	20	SA2	35	DACK0	50	LOUT0
6	PMU	21	SD4	36	DRQ3	51	IRQ7
7	HDDLED	22	SA3	37	DRQ1	52	LOUT1
8	CHAR ID	23	SD5	38	DACK3	53	IRQ9
9	DR0	24	SA4	39	DACK1	54	AGND
10	VCC5	25	SD6	40	RESETDRV	55	IRQ10
11	CHAR ID	26	SA5	41	14M	56	BMIC
12	BAT1	27	SD7	42	AGND	57	VCC5
13	SD0	28	SA6	43	GND	58	MICIN
14	488ENA	29	IORD	44	LIN0	59	GND
15	SD1	30	SA7	45	AEN	60	AGND

Audio In Connector (J4)

Pin	Signal	Pin	Signal	Pin	Signal
1	AGND	3	AGND	5	LIN0
2	LIN1	4	AGND		

Audio Out Connector (J14)

Pin	Signal	Pin	Signal	Pin	Signal
1	AGND	3	SPK	5	LOUT0
2	LOUT1	4	SPK		

LCD Connector (J11, 10-pin)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	4	BPLD2	7	BPLD8	9	BPLD12
2	LCD ON	5	BPLD4	8	BPLD10	10	BPLD14
3	BPLD0	6	BPLD6				

LCD Connector (J12, 15-pin)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	5	BPLD1	9	BPLD9	13	BSCP
2	BPLD7	6	BPLD15	10	BLP	14	FPVCC
3	BPLD5	7	BPLD13	11	BFM	15	GND
4	BPLD3	8	BPLD11	12	BFP		

LCD Connector (J13, 12-pin)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	ADPR	4	BL ON	7	MANUSW	10	SW1
2	ADPR	6	LCD ON	8	COVERSW	11	SW2
3	LCD1	6	LCD2	9	VCC3	12	GND

Processor Switch (S1)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	VBAT	2	P23	3	GND	4	3.6 V

Speed Selection Switch (S2)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	3	SPDSEL2	5	GND	7	SPDSEL0
2	GND	4	VCC3	6	VCC3	8	GND

CPU Selection Switch (S4)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	INTCY	2	STPGNT	3	GND	4	GND

Main Board Connector to Power Converter (J16)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	DOCK PR	5	CHARID	9	GND	13	GND
2	DOCK PR	6	SW2	10	PWOF	14	GND
3	DOCK PR	7	PWRON	11	GND		
4	DOCK PR	8	NC	12	GND		

Main Board Connector to Power Converter (J17)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	7	DOCK ON	13	VCC5	19	ADPR
2	GND	8	SUS HDD	14	VCC5	20	DOCK PR
3	GND	9	CLK OFF	15	VCC3	21	DOCK PR
4	GND	10	DOCKPLG	16	12 V	22	DOCK PR
5	SW ON	11	ADPTR	17	VCC3		
6	GND	12	VCC5	18	CHAR ID		

Trackpad Connector (J19)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	TBDIS	5	MCLK	9	TBDIS	13	MCLK
2	Z8PO0	6	NC	10	Z8PO0	14	NC
3	Z8PO1	7	GND	11	Z8PO1	15	GND
4	VCC5	8	MDATA	12	VCC5	16	MDATA

Internal Keyboard Connector (J20)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	P37	4	P34	7	Z8PO1	10	P31
2	P36	5	P33	8	GND	11	P30
3	P35	6	Z8PO0	9	P32		

Internal Keyboard Connector (J21)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	P16	5	P12	9	P06	13	P02
2	P15	6	P11	10	P05	14	P01
3	P14	7	P10	11	P04	15	P00
4	P13	8	P07	12	P03		

Daughterboard Connector (JP1)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	SPDSEL0	4	NC	7	SPDSEL2	10	TKA3B
2	DAC2	5	TURBO	8	MA10	11	RESVGA
3	NC	6	TKA3B	9	NC		

Daughterboard Connector (JP2)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	MA2	6	MA7	10	DTYWE	14	KRMWEA
2	MA3	7	MA8	11	KTOE	15	KRMWEB
3	MA4	8	MA9	12	KRMOEA	16	CLKOFF
4	MA5	9	DIRTY	13	KRMOEB	17	TKA3A
5	MA6						

Port Replicator Connector (J6)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	26	DACK3	51	PD8	76	VCC5
2	PAR OFF	27	BUSY	52	GND	77	SA1
3	GND	28	GND	53	SD12	78	DRQ3
4	GND	29	SD6	54	IRQ5	79	EXKBCLK
5	SD0	30	BALE	55	PD4	80	VCC5
6	AEN	31	FE	56	DOCK ON	81	SA2
7	STROB	32	LOUT0	57	SD13	82	DACK0
8	MCIN	33	SD7	58	IRQ6	83	MCLK
9	SD1	34	ZV6S	59	PD5	84	VCC5
10	RSRDRV	35	SLCT	60	EXTSPK	85	SA3
11	AUTOFD	36	GND	61	SD14	86	DACK5
12	GND	37	SD8	62	IRQ7	87	MDATA
13	SD2	38	IOCHK	63	PD6	88	NC
14	REFRESH	39	PD0	64	NC	89	SA4
15	ERROR	40	LOUT1	65	SD15	90	DACK6
16	LIN0	41	SD9	66	GND	91	GND
17	SD3	42	IRQ9	67	PD7	92	VCC3
18	DACK1	43	PD1	68	NC	93	SA5
19	INT	44	EXTPCM	69	GND	94	DACK7
20	GND	45	SD10	70	DRQ1	95	HSYNCOUT
21	SD4	46	IRQ8	71	GND	96	VCC3
22	DACK2	47	PD2	72	NON SUSP	97	SA6
23	ACK	48	GMCS	73	SA0	98	SBHE
24	LIN1	49	SD11	74	DRQ2	99	VSYNCOUT
25	SD5	50	IRQ4	75	EXKEDATA	100	NC



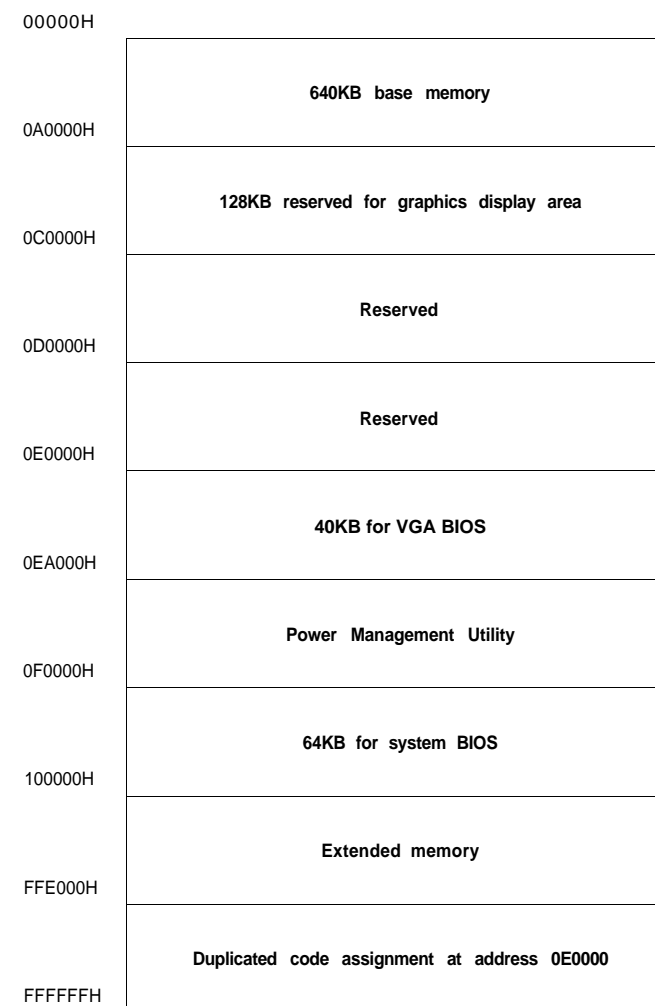
Port Replicator Connector (J6) (continued)

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
101	SA7	126	DRQ0	151	DSKCHG	176	$\overline{XDTR1}$
102	$\overline{MEMR}$	127	$\overline{DTR2}$	152	12V	177	$\overline{LT}$
103	BLU	128	$\overline{CTS2}$	153	SA20	178	$\overline{XR1}$
104	NC	129	SA14	154	IRQ14	179	$\overline{TRK0}$
105	SA8	130	DRQ5	155	MEDIA1	180	NC
106	$\overline{MEMW}$	131	$\overline{DCD2}$	156	SA22	181	TPIS
107	GRN	132	SIN2	157	SA21	182	NC
108	NC	133	SA15	158	IRQ15	183	$\overline{WRTPRT}$
109	SA9	134	DRQ6	159	MTP1	184	DOCKFR
110	GND	135	$\overline{DSR2}$	160	IOCHRDY	185	$\overline{SYSCLK}$
111	RED	136	HDDLED	161	$\overline{SLCTIN}$	186	DOCKFR
112	NC	137	SA16	162	GND	187	$\overline{RDATA}$
113	SA10	138	$\overline{RI2}$	163	DIR	188	DOCKFR
114	$\overline{MASTER}$	139	$\overline{PWRCCTRL}$	164	$\overline{XDCD1}$	189	OSC
115	GND	140	NC	165	SA23	190	DOCKFR
116	NC	141	SA17	166	$\overline{XDSR1}$	191	HDSEL
117	SA11	142	IRQ10	167	STEP	192	DOCKFR
118	$\overline{MCS16}$	143	$\overline{INDEX}$	168	$\overline{XSINI}$	193	TC
119	$\overline{RTS2}$	144	12V	169	$\overline{IOPD}$	194	DOCKFR
120	NC	145	SA18	170	$\overline{XRTS1}$	195	GND
121	SA12	146	IRQ11	171	$\overline{VDATA}$	196	NC
122	$\overline{IOCS16}$	147	$\overline{DR1}$	172	$\overline{XSOUT1}$	197	GND
123	SOUT2	148	12V	173	IOWR	198	NC
124	NC	149	SA19	174	$\overline{XCTS1}$	199	$\overline{PWROFF}$
125	SA13	150	IRQ12	175	WGATE	200	GND

Hardware Interrupts

Interrupt	Function
IRQ0	Timer
IRQ1	Keyboard
IRQ2	Cascade
IRQ3	COM2 (2F8H)
IRQ4	COM1 (3F8H)
IRQ5	Available
IRQ6	Diskette Controller
IRQ7	LPT1
IRQ8	Clock/Calendar
IRQ9	Video
IRQ10	Available
IRQ11	Available
IRQ12	Trackpad
IRQ13	Reserved for Coprocessor
IRQ14	Hard Disk Drive Controller
IRQ15	Available

System Memory Map



DMA Assignments

Channel	Device
DMA0	Available
DMA1	Available
DMA2	Diskette Controller
DMA3	ECP
DMM4	Cascade for CTRL 1
DMA5	Available
DMA6	Available
DMA7	Available

## System I/O Address Map

Hexadecimal Address	Device
000-01F	DMA Controller 1
020-03F	Interrupt Controller
040-05F	Timer/Counter
060-06F	Keyboard Controller
070-07F	RTC NMI
080-09F	DMA Page Register
0A0-0BF	Interrupt Controller 2
0C0-0DF	DMA Controller 2
0F0	Clear Math Coprocessor Busy
0F1	Reset Math Coprocessor
0F8-0FF	Math Coprocessor
100-1EF	Available
1F0-1F8	Hard Disk Drive
200-207	Game Port
208-277	Available
278-27F	Parallel Port 2
2F8-2FF	Serial Port 2
300-31F	Prototype Card
360-36F	Reserved
378-37F	Parallel Port 1
380-38F	SDLC, Bisynchronous 2
3A0-3AF	Bisynchronous 1
3B0-3BF	Mono Display Printer Adapter
3C0-3CF	Reserved
3D0-3DF	Color/Graphics Monitor Adapter
3E0-3EF	PCMCIA Controller
3F0-3F7	Diskette Drive Controller
3F8-3FF	Serial Port 1

## Installation/Support Tips

### Using Low Battery Save to HDD and Instant On

- The ActionNote 800 series hard disk drive is partitioned at the factory so that these options can be used. A 25MB area is set aside for the saved data; this ensures that there is enough space for all memory configurations.
- To prepare the hard disk drive, run the PHDISK utility, located in the C:\PM directory. Type the following command at the DOS prompt and press **Enter**:

PHDISK/CREATE

- If you install a new hard disk drive and want to use the Low Battery Save to HDD or Instant On options, you need to leave sufficient space on the disk unpartitioned. The amount of space should equal the system memory plus 2MB. After you run FDISK to partition the drive, you need to run the PHDISK utility to configure the storage space on the drive.
- When the computer is turned on after using the Low Battery Save to HDD or Instant On options, the PCMCIA services are not reinitialized. The computer recognizes SRAM PC cards, but does not recognize most other PC cards. You must reboot to reinitialize the services.

### Using an External Monitor

When you connect an external monitor, make sure you turn it on before you turn on the computer. The ActionNote automatically detects the external monitor and displays data on its screen. Press Fn F10 to switch your display from the monitor to the LCD screen or to display on both screens simultaneously.

### Using a Serial Mouse

If you connect a serial mouse, you must use the Setup program to disable the built-in trackpad.

## Information Reference List

### Engineering Change Notices

None

### Technical Information Bulletins

None

### Product Support bulletins

None

### Related Documentation

400398600	EPSON ActionNote 800 Series User's Guide
400398700	Software Support Card
PL-AN800	EPSON ActionNote 800 Series Parts Price List
TM-AN7800T	EPSON ActionNote 800 Series Service Manual