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Apple IIe: Keyboard Interface (4/94)

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TOPIC -----

How does the Apple IIe keyboard work?

DISCUSSION -----

The Apple IIe keyboard is an x-y matrix of keyswitches that are connected to an AY-3600-type keyboard decoder via a 26 pin ribbon cable and connector. The AY-3600 repeatedly scans the keyswitch array to detect which keys are depressed.

The 'X' signals represent the X-direction key-matrix connections and the 'Y' signals represent the Y-direction key-matrix connections.

Keyboard Connector Wiring Diagram:

Pin	Description
1	Y0
2	Y1
4	Y2
6	Y3
8	Y4
10	Y5
23	Y6
25	Y7
12	Y8
22	Y9
3	+5 Volts
5	NC
7	NC
9	NC
15	NC
11	Control key
13	Signal ground
14	X0
18	X1

16 X2
 20 X3
 21 X4
 19 X5
 26 X6
 17 X7
 24 Shift key

Keyswitch Matrix Chart

X and Y inputs to AY-3600 encoder via 26 pin connector

	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9
X7	=			-	Enter		Del	Down	<-	->
X6	*		8	9	.	+	Ret	Up	Space	"
X5		ESC	4	5	6	7	~	P	[]
X4	/		0	1	2	3	\	=	0	-
X3	Z	X	C	V	B	N	M	,	.	/
X2	A	S	D	F	G	H	J	K	;	L
X1	TAB	Q	W	E	R	T	Y	U	I	O
X0	ESC	1	2	3	4	5	6	7	8	9

Note: The numeric key positions shown in the upper left corner of the chart represent the numeric keypad.

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