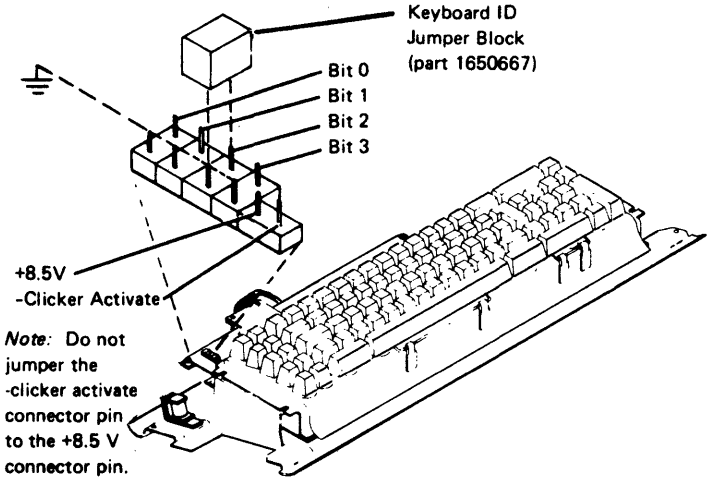
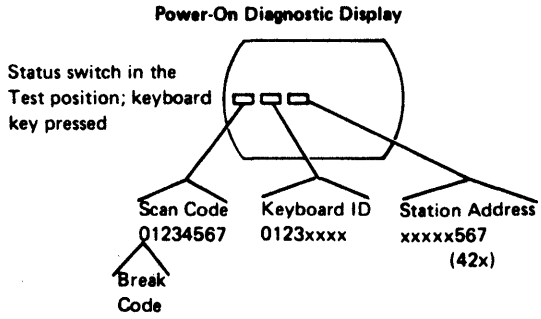
142 KEYBOARD IDENTIFICATION

The following figure shows the jumpers that are necessary for keyboard identification.

Country	Standard Keyboard Bit Assignment* 0 1 2 3	Data Entry Keyboard Bit Assignment* 0 1 2 3	Data Entry Keyboard (with Proof feature) Bit Assignment* 0 1 2 3
U S /Canada	0 0 1 0	0 1 0 0	0 1 0 1
ASCII	0 0 1 1	1 0 0 0	1 0 0 1
Austria/Germany	1 0 1 0	1 1 0 0	1 1 0 1
Belgium	1 0 1 0	1 1 0 0	1 1 0 1
Brazil	1 0 1 0	1 1 0 0	1 1 0 1
Denmark	1 0 1 0	1 1 0 0	1 1 0 1
Finland	1 0 1 0	1 1 0 0	1 1 0 1
France AZERTY	1 0 1 0	1 1 0 0	1 1 0 1
Canada (French)	1 0 1 0	1 1 0 0	1 1 0 1
France QWERTY	1 0 1 0	1 1 0 0	1 1 0 1
International	1 0 1 1	1 0 0 0	1 0 0 1
Italy	1 0 1 0	1 1 0 0	1 1 0 1
Japan (English)	1 0 1 0	1 1 0 0	1 1 0 1
Japan (Katakana)	1 0 1 0	1 1 0 0	1 1 0 1
Latin America	1 0 1 0	1 1 0 0	1 1 0 1
Norway	1 0 1 0	1 1 0 0	1 1 0 1
Portugal	1 0 1 0	1 1 0 0	1 1 0 1
Spain	1 0 1 0	1 1 0 0	1 1 0 1
Sweden	1 0 1 0	1 1 0 0	1 1 0 1
United Kingdom	1 0 1 0	1 1 0 0	1 1 0 1

* 1 = Jumpered
0 = Not jumpered





143 KEYBOARD ARRANGEMENT

The keyboard arrangement section shows the key numbers for the keyboards. The key numbers are the same as the key-position numbers in the scan code table (144).

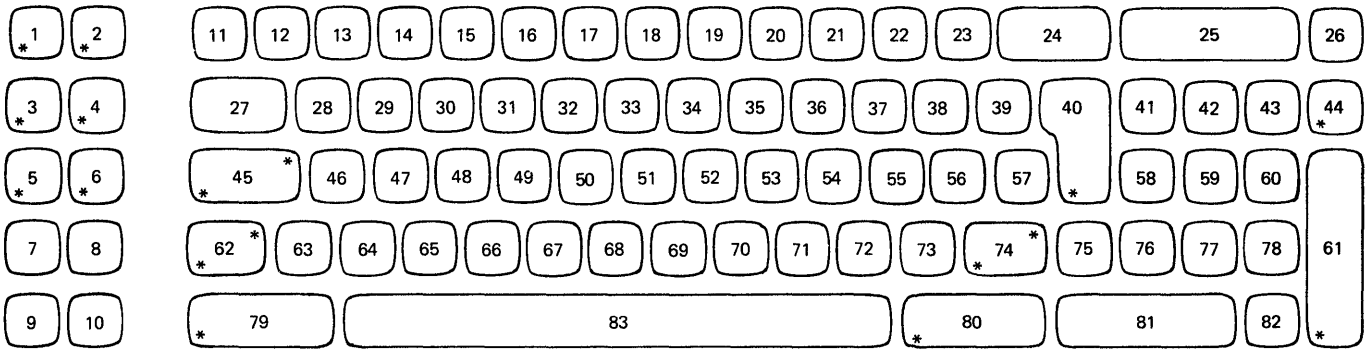
Keyboard Template (GX21-9266)

Display Mode	13	14	15	16	17	18	19	20	21	22	23	24	Clear
	1	2	3	4	5	6	7	8	9	10	11	12	Test Request

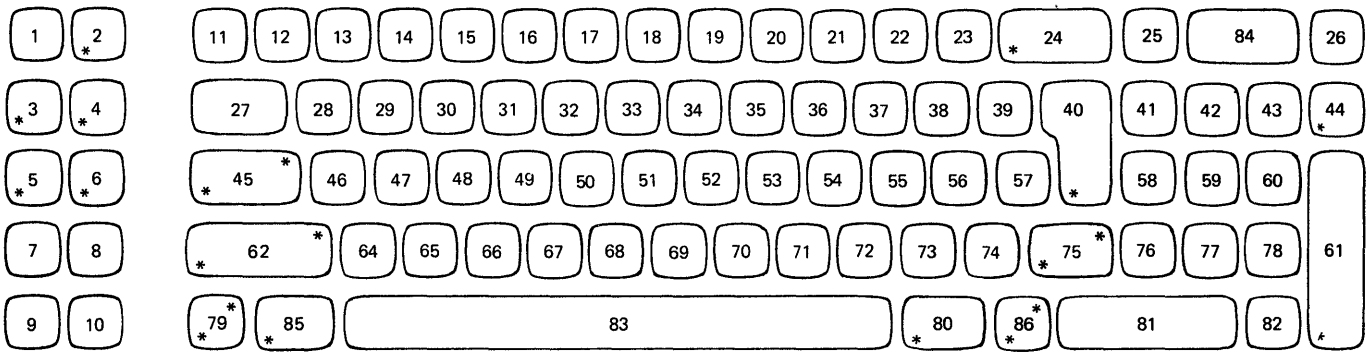
The keys in the top row on the keyboard allow you to use the command functions. When you press the Cmd (command) key and then one of the top row keys, you select command functions 1 through 12 or Test Request. When you press the Cmd key, then hold down the Shift key and press one of the top row keys, you select the display mode, command functions 13 through 24, or Clear.

The keyboard template is placed in the opening above the top row of keys on the keyboard cover. The customer can change the template so that the names of the command functions on the template are the same as the names of the commands performed by the top row of keys.

Standard Keyboard Layout



Standard Keyboard Layout (Katakana)

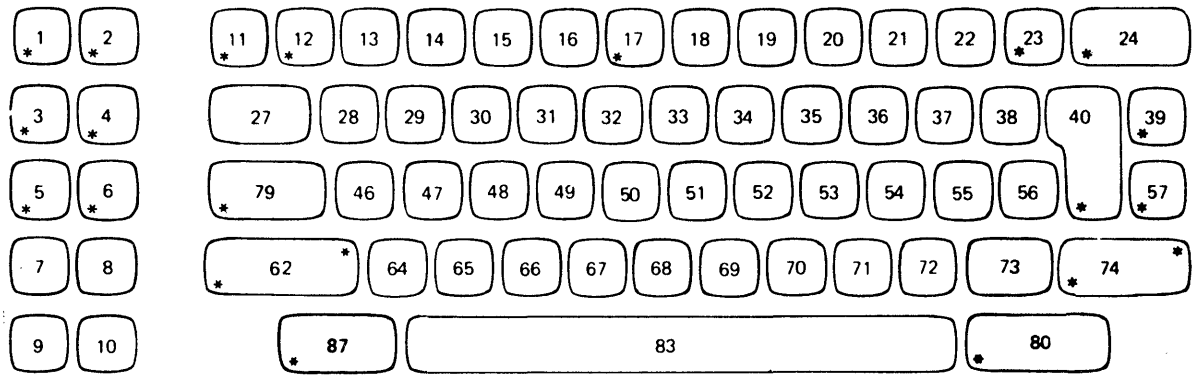


Not a typamatic key

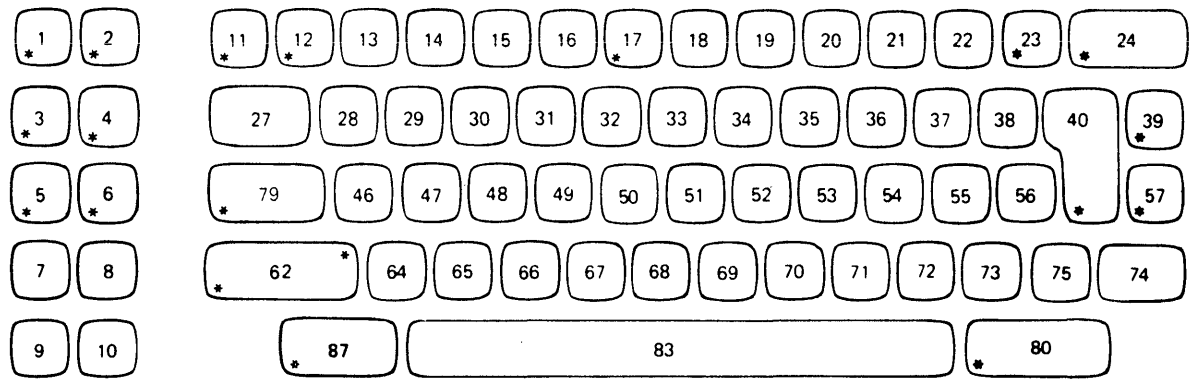
A make/break key

143 (continued)

Data-Entry Keyboard Layout (66 Keys)



Data-Entry Keyboard Layout (67 Keys)

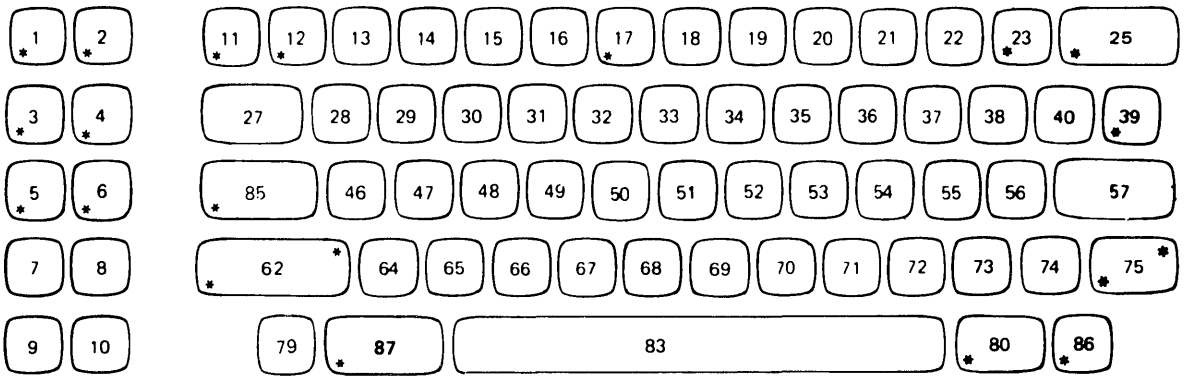


Not a typamatic key

A make/break key

143 (continued)

Katakana Data-Entry Keyboard Layout (69 Keys)



Not a typamatic key

A make/break key

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144 SCAN CODE TABLE

Scan codes are a function of the physical position of the keyboard keys. The following table shows the 8-bit scan code, the hexadecimal code, and the key position for the keyboards. The * (asterisk) in scan code position 0 indicates that the key is a make/break key with a bit setting of either 0 or 1. When a make/break key is pressed, bit 0 of the code is a 0. When a make/break key is released, bit 0 of the code is a 1. When the US and the Katakana scan codes are different, the Katakana code is listed below the US code for that key position.

144 (continued)

Key Position	Hex Code	Scan Code 01234567	Key Position	Hex Code	Scan Code 01234567
1	7C	01111100	44	4E	01001110
2	6F	01101111	45	54	*1010100
3	6C	01101100	46	11	00010001
4	6D	01101101	47	12	00010010
5	6E	01101110	48	13	00010011
6	7D	01111101	49	14	00010100
7	71	01110001	50	15	00010101
8	70	01110000	51	16	00010110
9	72	01110010	52	17	00010111
10	73	01110011	53	18	00011000
11	3E	00111110	54	19	00011001
12	31	00110001	55	1A	00011010
13	32	00110010	56	1B	00011011
14	33	00110011	57	1C	00011100
15	34	00110100	58	44	01000100
16	35	00110101	59	45	01000101
17	36	00110110	60	46	01000110
18	37	00110111	61	4D	01001101
19	38	00111000	62	57	*1010111
20	39	00111001	63	0E	00001110
21	3A	00111010	64	01	00000001
22	3B	00111011	65	02	00000010
23	3C	00111100	66	03	00000011
24	3D	00111101	67	04	00000100
24 Katakana	61	01100001	68	05	00000101
25	4B	01001011	69	06	00000110
25 Katakana	3D	00111101	70	07	00000111
26	4C	01001100	71	08	00001000
27	20	00100000	72	09	00001001
28	21	00100001	73	0A	00001010
29	22	00100010	74	56	*1010110
30	23	00100011	74 Katakana	0C	00001100
31	24	00100100	75	0C	00001100
32	25	00100101	75 Katakana	56	*1010110
33	26	00100110	76	41	01000001
34	27	00100111	77	42	01000010
35	28	00101000	78	43	01000011
36	29	00101001	79	7E	01111110
37	2A	00101010	79 Katakana	53	*1010011
38	2B	00101011	80	68	01101000
39	2C	00101100	81	40	01000000
40	2D	00101101	82	4A	01001010
41	47	01000111	83	0F	00001111
42	48	01001000	84	4B	01001011
43	49	01001001	85	7E	01111110
			86	52	*1010010
			87	69	01101001