

JIS

JAPANESE INDUSTRIAL STANDARD

Coding of Machine Readable Characters (OCR and MICR)

JIS X 9010—1984

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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(OCR and MICR)

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1. Scope

This Standard specifies the coded expressions of the characters recognized by the optical character recognition systems and the magnetically inked character recognition systems based on the JIS X 0201 and JIS X 0202.

The forms of characters to be dealt with shall be as given in Table 1.

Table 1. Forms of Characters

Forms of characters	Applicable Standards specifying character forms
OCR-A	JIS X 9001
OCR-B	
OCR-K	JIS X 9003
OCR-HN	JIS X 9006
OCR-HA	JIS X 9007
OCR-HS	JIS X 9008
OCR-HK	JIS X 9005
E 13 B	JIS X 9002

Remark: This Standard shall not confine the range of the characters to be handled by the reading machine.

2. Definition

The meanings of main terms used in this Standard shall conform to JIS X 0001.

3. Coding

One or more codes shall be selected as needed from the assembly of figures and letters specified in 4., each of which shall be used in any one of the Assemblies of G 0, G 1, G 2 or G 3 specified in JIS X 0202 and any necessary control function shall be additionally specified in accordance with 5. and JIS X 0202, thus consumating the respective system of coded characters.

The escape sequence to indicate each assembly of figures and letters shall be later specified in 6.

The number of units of each coding shall be 7 and 8.

4. Assembly of Figures and Letters

The assemblies of Figures and Letters shall be OCR-A Figure and Letter Assembly, OCR-B Basic Figure and Letter Assembly, OCR-B Additional Figure and Letter Assembly, OCR-K Figure and Letter Assembly, OCR-Handwriting Letter and Basic Drawing Letter Assembly, OCR Handwriting Letter, and Additional Drawing Letter Assembly, OCR Handwriting Letter and Katakana Drawing Letter Assembly, and E 13 B Drawing and Letter Assembly.

Each of the Figure and Letter Assemblies shall be as shown in Tables 2 to 9. The blank space in Tables 2 to 9 shall not be used.

Reference: In conformity to JIS X 0202, in Tables 2 to 9, the columns 2 to 7 correspond to lines 2 to 7 in the case of 7-unit signal and correspond to lines 02 to 07 or lines 10 to 15 in the case of 8-unit signal.

Table 2. OCR-A Figure and Letter Assembly

					b ₇	0	0	0	0	1	1	1	1
					b ₆	0	0	1	1	0	0	1	1
					b ₅	0	1	0	1	0	1	0	1
						0	1	2	3	4	5	6	7
b ₄	b ₃	b ₂	b ₁										
0	0	0	0	0				0		P			
0	0	0	1	1				1	A	Q			
0	0	1	0	2			∞	2	B	R			
0	0	1	1	3			£	3	C	S			
0	1	0	0	4			\$	4	D	T			
0	1	0	1	5			%	5	E	U			
0	1	1	0	6			&	6	F	V			
0	1	1	1	7			' ⁽¹⁾	7	G	W			
1	0	0	0	8			{	8	H	X			
1	0	0	1	9			}	9	I	Y			
1	0	1	0	10			*	:	J	Z			
1	0	1	1	11			+	;	K				
1	1	0	0	12			⁽¹⁾ ∩	∩	L	¥			1
1	1	0	1	13			⁽¹⁾ -	=	M	¥			
1	1	1	0	14			⁽¹⁾ .	∩	N				
1	1	1	1	15			/	? ⁽¹⁾	0				

Note (1) See 5.5.(1).

Table 3. OCR-B Basic Drawing and Letter Assembly

					b ₇	0	0	0	0	1	1	1	1
					b ₆	0	0	1	1	0	0	1	1
					b ₅	0	1	0	1	0	1	0	1
						0	1	2	3	4	5	6	7
b ₄	b ₃	b ₂	b ₁										
0	0	0	0	0					0	@	P		p
0	0	0	1	1				!	1	A	Q	a	q
0	0	1	0	2				"	2	B	R	b	r
0	0	1	1	3				#	3	C	S	c	s
0	1	0	0	4				\$	4	D	T	d	t
0	1	0	1	5				%	5	E	U	e	u
0	1	1	0	6				&	6	F	V	f	v
0	1	1	1	7				'	7	G	W	g	w
1	0	0	0	8				(	8	H	X	h	x
1	0	0	1	9				)	9	I	Y	i	y
1	0	1	0	10				*	:	J	Z	j	z
1	0	1	1	11				+	;	K	[	k	{
1	1	0	0	12				/	<	L	¥	l	l ⁽³⁾
1	1	0	1	13				-	=	M	]	m ⁽²⁾	}
1	1	1	0	14				.	>	N	^	n	
1	1	1	1	15				/	?	O	_	o	

Notes ⁽²⁾ See 5.5 (2).⁽³⁾ See 5.5 (3).