

JIS

JAPANESE INDUSTRIAL STANDARD

Code of the supplementary
Japanese graphic character set
for information interchange

JIS X 0212—1990

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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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J I S

Code of the supplementary
Japanese graphic character set
for information interchanges

X 0212-1990

1. Scope

This Japanese Industrial Standard specifies, for the information interchange requiring graphic characters not included in "the graphic character set used in the representation of usual Japanese sentences" specified in JIS X 0208, code of the graphical character set as a supplement of JIS X 0208 under the provision of JIS X 0202.

Remarks 1. This standard is used for information interchange, but does not specify the internal processing code.

2. This standard specifies the code of characters, but does not specify the actual design of character figure.

3. Applicable Standards are as follows:

JIS X 0201 Code for Information Interchange

JIS X 0202 Information Processing - ISO 7-Bit and
8-Bit Coded Character Sets - Code
Extension Techniques (SIO 2022-1986)

JIS X 0208 Code of the Japanese Graphic Character Set
for Information Interchange

2. Definition

For the main terms used in this Standard the definitions are as follows:

(1) character A member of a set of elements used for the representation or control of information. Characters are classified to the graphic characters and control characters.

(2) graphic character A character represented by a visual figure.

Remarks: In this standard graphic characters may be shown as character.

(3) diacritical mark Symbol denoting the variation of pronunciation.

(4) section In the 2 byte code, a set of the positions discriminated by the first byte on the code table.

(5) point In a section, a position discriminated by the second byte on the code table.

- (6) character form A frame expression of a character appeared through the process that make a character from an idea by combining the elements of stipples and others.
- (7) character style A figure expression embodied by the display design applied to the character form which is the frame expression of the character.

3. Graphic character

3.1 Kinds of graphic character The kinds of graphic character specified in this standard consist of Special Character, Alphabet and Japanese Graphic Character.

- (1) Special characters The special characters shall comprise two descriptive symbols, one unit symbol, seven general symbols and eleven diacritical marks, total 21 characters, and the names of which follow as Annex. 1.
- (2) Alphabet Alphabetic characters shall comprise 21 characters of Greek alphabet attached with diacritical marks, 26 characters of Cyrillic alphabet, 27 characters of Latin alphabet and 171 characters of Latin alphabet attached with diacritical marks, total 245 characters, and the names of which follow as Annex 2.
- (3) Japanese graphic character The number of the Japanese graphic characters are 5801, and the arrangement of which follows as Annex 3.

3.2 Character and bit combination In this standard, the relations of characters and bit combinations corresponding to them, are indicated in the form of a table. But it shall not specify calligraphic styles used for the visual representation of characters, character styles, character forms which form the basis of the character style, and size of characters.

4. Code

4.1 Unit of code The unit of code specified in this standard shall be 2 bytes. Each byte shall be 7-bit and 8-bit specified in JIS X 0201 and JIS X 0202. The former byte is called the first byte, and the latter one the second byte.

4.2 Position of code In the 7-bit code system, 94 positions of code of 2/1 to 7/14 specified in JIS X 0201 are used for each byte. In the 8-bit code system, 94 positions of code of 02/1 to 07/14 or 10/1 to 15/14 specified in JIS X 0201 are used for each byte.

4.3 Designation and call of 2-byte code

4.3.1 Designation and call in 7-bit code system The methods of designation and call of the graphic character set represented by the plural bytes specified in JIS X 0202 are used. The final character in the designation shall be 4/4.

4.3.2 Designation and call in 8-bit code system The methods of designation and call of the graphic character set represented by the plural bytes specified in JIS X 0202 are used. The final character in the designation shall be 04/4.

4.4 Graphic character code table The graphic character code table shall be as Table 1. b_7 to b_1 of each byte correspond to b_7 to b_1 of 7-bit code or 8-bit code. In 8-bit code, b_8 shall be decided to 0 or 1 by the selection of call after the designation of the 2-byte graphic character set.

4.5 Section/point number The positions of each code and each character on the code table are indicated by the section/point number. Section numbers are 1 to 94, and point numbers are 1 to 94, and they are bridged by a hyphen.

Example: 2 - 34 Inverted exclamation mark

Remarks: The correspondence between column and row numbers specified in JIS X 0201 and section/point numbers shall be as follows:

Column No./Row No.	<u>2/1</u> to <u>7/14</u>	(7-bit code system)
	<u>02/1</u> to <u>07/14</u>	(8-bit code system)
	<u>10/1</u> to <u>15/14</u>	(8-bit code system)

Section No. 1 to 94

Point No. 1 to 94

4.6 Blanks on the code table The blanks of the section 1 to 84 on the code table shall be a reserved area forbidden to application for future standardization. And the blanks of the section 85 to 94 shall be a free area applicable temporarily and partially, by the agreement between the parties concerned with information interchange.



Graphic Character Code Table (Supplementary Japanese Graphic)

[illegible]

[illegible]

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[illegible]

[illegible]

[illegible]

Annex 1. Sepcial character

The names of the special characters shall follow as Annex 1. Tables 1 to 4.

Annex 1 Table 1. Descriptive symbols

Section and point No.	Character	Name
2-34	¡	Inverted exclamation mark
2-36	¿	Inverted question mark

Annex 1 Table 2. Unit symbol

Section and point No.	Character	Name
2-80	¤	General currency sign

Annex 1 Table 3. General symbols

Section and point No.	Character	Name
2-35	¦	Broken bar
2-75	♂	Ordinal indicator, masculine
2-76	♀	Ordinal indicator, feminine
2-77	©	Copyright sign
2-78	®	Registered trademark sign
2-79	™	Trademark sign
2-81	Nº	Number acronym

Annex 1 Table 4. Diacritical marks

Section and point No.	Character	Name
2-15	◌̆	Breve
2-16	◌̈	Caron
2-17	◌̣	Cedilla
2-18	◌̇	Dot above
2-19	◌̈́	Double acute
2-20	◌̄	Macron
2-21	◌̛	Ogonek
2-22	◌̊	Ring above
2-23	◌̃	Tilde
2-24	◌̂	Tonos
2-25	◌̂̈	Tonos and diaeresis

Annex 2. Alphabetic characters

The names of the alphabetic characters shall follow as Annex 2 Tables 1 to 4.

Annex 2 Table 1. Greek alphabetic characters with diacritical marks

Capital letter		Small letter		Name
Section and point No.	Character	Section and point No.	Character	
6-65	Α	6-81	ᾱ	Tonos A
6-66	Ε	6-82	ῑ	Tonos E
6-67	Η	6-83	ῆ	Tonos H
6-68	Ι	6-84	ι	Tonos I
6-69	Ϊ	6-85	ϊ	Diaeresis I
		6-86	ῖ	Tonos and diaeresis I
6-71	Ο	6-87	ο	Tonos O
		6-88	ς	Word ending small letter σ
6-73	Υ	6-89	υ	Tonos ρ
6-74	Ψ	6-90	ϋ	Diaeresis ρ
		6-91	ϛ	Tonos and diaeresis ρ
6-76	Ω	6-92	ω	Tonos Ω

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Annex 2 Table 2. Cyrillic alphabetic characters

Capital letter		Small letter		Name
Section and point No.	Character	Section and point No.	Character	
7-34	Ђ	7-82	ђ	Servian DJE
7-35	Ѓ	7-83	ѓ	Macedonian GJE
7-36	Є	7-84	є	Ukraine JE
7-37	Ѕ	7-85	ѕ	Macedonian DSE
7-38	І	7-86	і	Ukraine I
7-39	Ї	7-87	ї	Ukraine YI
7-40	Ј	7-88	ј	Servian JE
7-41	Љ	7-89	љ	Servian LJE
7-42	Њ	7-90	њ	Servian NJE
7-43	Ћ	7-91	ћ	Servian TSHE
7-44	Ќ	7-92	ќ	Macedonian KJE
7-45	Ў	7-93	ў	White russian short U
7-46	Ў	7-94	ў	Servian DZE

Annex 2 Table 3. Latin alphabetic characters

Capital letter		Small letter		Name
Section and point No.	Character	Section and point No.	Character	
9-1	Æ	9-33	æ	Diphthong AE
9-2	Ð	9-34	ð	Stroke D
		9-35	ð	Icelandic ETH
9-4	H	9-36	h	Stroke H
		9-37	ı	No dot i (Turkish i)
9-6	IJ	9-38	ij	IJ ligature
		9-39	κ	Greenlandic K
9-8	Ł	9-40	ł	Stroke L (Polish L)
9-9	Ł	9-41	ł	Middle dot L
		9-42	ˆn	Apostrophic n
9-11	Ŋ	9-43	ŋ	Lapp ENG
9-12	Ø	9-44	ø	Slash O
9-13	Œ	9-45	œ	OE ligature
		9-46	ß	German sz
9-15	T	9-47	t	Stroke T
9-16	Þ	9-48	þ	Icelandic THORN

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Annex 2 Table 4. Latin alphabetic characters with diacritical marks

Capital letter		Small letter		Name
Section and point No.	Character	Section and point No.	Character	
10-1	Á	11-1	á	Acute A
10-2	À	11-2	à	Grave A
10-3	Ä	11-3	ä	Diaeresis A (A umlaut)
10-4	Â	11-4	â	Circumflex A
10-5	Ḃ	11-5	ḁ	Breve A
10-6	Ȧ	11-6	ȧ	Caron A
10-7	Ā	11-7	ā	Macron A
10-8	Ą	11-8	ą	Ogonek A
10-9	Ȧ̇	11-9	ȧ̇	Ring above A
10-10	Ã	11-10	ã	Tilde A
10-11	Ć	11-11	ć	Acute C
10-12	Ĉ	11-12	ĉ	Circumflex C
10-13	Č	11-13	č	Caron C
10-14	Ç	11-14	ç	Cedilla C
10-15	Ċ	11-15	ċ	Dot above C
10-16	Ď	11-16	ď	Caron D
10-17	Ê	11-17	é	Acute E
10-18	È	11-18	è	Grave E
10-19	Ë	11-19	ë	Diaeresis E
10-20	Ê	11-20	ê	Circumflex E
10-21	Ě	11-21	ě	Caron E
10-22	Ė	11-22	ė	Dot above E

Annex 2 Table 4 (Continued)

Capital letter		Small letter		Name
Section and point No.	Character	Section and point No.	Character	
10-23	Ē	11-23	ē	Macron E
10-24	Ę	11-24	ę	Ogonek E
		11-25	ġ	Acute g
10-26	Ĝ	11-26	ĝ	Circumflex G
10-27	Ĝ	11-27	ĝ	Breve G
10-28	Ĝ			Cedilla G
10-29	Ĝ	11-29	ĝ	Dot above G
10-30	Ĥ	11-30	ĥ	Circumflex H
10-31	İ	11-31	ı	Acute I
10-32	İ	11-32	ì	Grave I
10-33	Ï	11-33	ï	Diaeresis I
10-34	Î	11-34	î	Circumflex I
10-35	İ	11-35	ı	Caron I
10-36	İ			Dot above I
10-37	Ī	11-37	ī	Macron I
10-38	Į	11-38	į	Ogonek I
10-39	İ	11-39	ı	Tilde I
10-40	Ĵ	11-40	ĵ	Circumflex J
10-41	Ķ	11-41	ķ	Cedilla K
10-42	Ĺ	11-42	ĺ	Acute L
10-43	Ĺ	11-43	ļ	Caron L
10-44	Ļ	11-44	ļ	Cedilla L

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Annex 2 Table 4 (Continued)

Capital letter		Small letter		Name
Section and point No.	Character	Section and point No.	Character	
10-45	Ñ	11-45	ñ	Acute N
10-46	Ñ	11-46	ñ	Caron N
10-47	N	11-47	ñ	Cedilla N
10-48	Ñ	11-48	ñ	Tilde N
10-49	Ó	11-49	ó	Acute O
10-50	Ò	11-50	ò	Grave O
10-51	Ö	11-51	ö	Diaeresis O (O umlaut)
10-52	Ô	11-52	ô	Circumflex O
10-53	Ö	11-53	ö	Caron O
10-54	Ö	11-54	ö	Double acute O
10-55	Ö	11-55	ö	Macron O
10-56	Ö	11-56	ö	Tilde O
10-57	Ř	11-57	ř	Acute R
10-58	Ř	11-58	ř	Caron R
10-59	Ř	11-59	ř	Cedilla R
10-60	Ś	11-60	ś	Acute S
10-61	Ŝ	11-61	ŝ	Circumflex S
10-62	Š	11-62	š	Caron S
10-63	Ş	11-63	ş	Cedilla S
10-64	Ť	11-64	ť	Caron T
10-65	Ť	11-65	ť	Cedilla T
10-66	Ú	11-66	ú	Acute U

Annex 2 Table 4 (Continued)

Capital letter		Small letter		Name
Section and point No.	Character	Section and point No.	Character	
10-67	Û	11-67	û	Grave U
10-68	Ü	11-68	ü	Diaeresis U (U umlaut)
10-69	Ů	11-69	ů	Circumflex U
10-70	Ů	11-70	ů	Breve U
10-71	Ů	11-71	ů	Caron U
10-72	Ů	11-72	ű	Double acute U
10-73	Ů	11-73	ū	Macron U
10-74	Ů	11-74	u	Ogonek U
10-75	Ů	11-75	ù	Ring above U
10-76	Ů	11-76	ũ	Tilde U
10-77	Ů	11-77	ű	Acute and diaeresis U
10-78	Ů	11-78	ű	Grave and diaeresis U
10-79	Ů	11-79	ű	Caron and diaeresis U
10-80	Ů	11-80	ű	Macron and diaeresis U
10-81	Ů	11-81	ű	Circumflex W
10-82	Ů	11-82	ű	Acute Y
10-83	Ů	11-83	ű	Diaeresis Y
10-84	Ů	11-84	ű	Circumflex Y
10-85	Ů	11-85	ű	Acute Z
10-86	Ů	11-86	ű	Caron Z
10-87	Ů	11-87	ű	Dot above Z

Annex 3. Arrangement of Japanese Graphic Characters

5801 of Japanese graphic characters are arranged in the sections No. 16 to 17. The arrangement of each character followed to the order of the arrangement in the 9th print of the revised edition of the "Dai Kanwa Jiten (The Great Chinese-Japanese Dictionary)" (Edited by Tetsuji Morohashi, Published by Taishūkan Book Co.). In the arrangement of the "Dai Kanwa Jiten", following to the "Kōki Jiten (The Kōki Dictionary)", the characters are classified to 214 of part-head groups, and in each of the groups they are arranged in the order of the number of strokes of character.

Characters contained in the supplement of the "Dail Kanwa Jiten" are arranged in each position corresponding to their part-head.

Characters not listed in that Dictionary, in proportion to the characters in that Dictionary, are arranged in the same part-head group, and in the order of the strokes of characters. In the group of the same number of strokes, they are arranged at the last position of the characters in that Dictionary.

Remarks: In Annex 3, only section numbers and point numbers out of the frame and Japanese graphic characters in the frame, are parts of the Standard, but other numerals, symbols and characters and others are not a part of the Standard.

" r " attached on the upper left of a character indicates the changing point of the heading sign of 214 part-heads. In this case, this heading sign is also indicated in the right side marginal space of the line.

If there are synonymous characters in JIS X 0208 and JIS X 0212, they are attached with section/point numbers for reference. Then, the section/point number without * mark means the number of JIS X 0208, and * mark attached number means the number of JIS X 0212. If there are synonymous characters four or more, that character is indicated in the marginal space, and on the upper side of the character the concerned section/point number, and on the lower side the section/point number of the fourth one and after of the same character are indicated.

Section

16 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19
 01 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 19 30-69 18-28 34-22 17-15 38-51 46-30 49-32
 20 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 39 17-03 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47
 40 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 59 18-48 37-56 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04
 60 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 79 18-48 37-56 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04 28-04
 80 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 94 55-43 43-01 55-44 41-28

Section

17 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19
 01 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 19 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02 17-02
 20 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 39 35-43 42-69 22-02 29-04 48-91 20-01 22-53 68-88 30-16
 40 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 59 71-02 18-15
 60 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 79 19-35 17-49 63-25 18-18
 80 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 94 41-15

Section

18 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19
 01 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 19 55-52 40-18 42-34 48-88 17-55 17-75 40-87
 20 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 39 29-22 58-40 37-48 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47
 40 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 59 28-04 53-85 16-62 18-68
 60 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 79 18-58 68-49 49-28 36-25 69-93 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47 27-47
 80 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔 𠂔
 94 43-25 49-39 49-36 19-41 21-25 26-39 62-03 16-23 43-20 49-35 18-7

16-62 16-63 18-56
 𠂔 𠂔 𠂔
 *18-56 *18-56 *16-63
 *29-91 *29-91 *29-91

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Section

19 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19
 01 淨 減 湊 澄 漂 溟 漸 灝 九 尻 鳳 鳳 登 憑 出 刁 刁 办 划 凡(口)
 19 24-26 44-11 66-13 43-62 21-79 41-87 *26-84 *37-45 18-84 37-65
 20 剗 劓 刖 刘 刳 刵 刼 刼 刼 刼 刼 刼 刼 刼 刼 刼 刼 刼 刼 刼
 39 46-13 *19-42 *17-61
 40 劓 力
 59 79-70 *18-83 *19-33 57-04 28-33 76-36
 60 劓
 79 41-50 45-06 23-14 50-14
 80 劓
 94 21-37 刁

Section

20 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19
 01 勾 鈎 鈎 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇
 19 39-30 59-45 30-02 68-26 34-02 22-09 50-29 52-94
 20 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇
 39 32-04 46-08 30-86 18-83 25-47 46-57 21-78 27-18 52-79 27-86 48-15
 40 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇
 59 24-22 46-81 24-27 50-51 78-35 50-52 24-66
 60 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇
 79 36-54 16-51 30-86 18-83 25-47 46-57 21-78 27-18 52-79 27-86 48-15
 80 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇 𠂇
 94 50-63 75-41 51-47 *61-60

Section

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