6 Font

This chapter explains basic features of GP-Pro EX's "Font" and basic ways of placing text with each font.

Please start by reading "6.1 Font Types" (page 6-2) and then turn to the corresponding page.

6.1	Font Types	6-2
6.2	Defining Stroke Font and Standard Font	6-3
6.3	Image Font	6-15
6.4	[Font] Settings Guide	6-19
6.5	Restrictions	6-20

6.1 Font Types

Defining Stroke Font and Standard Font	
These fonts are used normally. The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well. For example, Text in stroke font	Setup Procedure (page 6-12) Introduction (page 6-3)
"Japanese" ストロークフォント	
"English" stroke font	
"Chinese (Simplified)" unicode标准	
Image Font	
This font is used to draw in Windows fonts and can appear pixelated when enlarged.	Setting Procedure (page 6-16) Introduction (page 6-15)
"Arial/Italic" イメージフォント	
"Arial Black" Image Font	
"Helvetica/Bold" Image Font	

6.2 Defining Stroke Font and Standard Font

6.2.1 Introduction

These fonts are used normally.

The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well.

For example, Text in stroke font



Text Feature

Stroke Font

• Can be freely enlarged and displays well.

This font can be freely enlarged within the range of 6 to 127 dots and displays well. The standard size is a single-byte character. Double-byte characters are fixed with the same size horizontally and vertically. However, with a vector font feature, small sized text cannot be displayed well.



• Can be used for bold/outlines.

Standard Font

- Small sized text can also be displayed well.
 Small sized text also displays well if placed in full scale (original size), such as "8 X16 dots", "16 X 16 dots", or "32 X 32 dots". However, the scaling factor of enlargement/ reduction should be selected.
- Can be used for bold/shadows.

Font Types

Each display language corresponds to the following fonts. Font Type

Font Type	Display Language	Font Name
Stroke Font	Japanese	Japanese Stroke Font
	ASCII	Roman Character Stroke Font
	Chinese (Simplified)	Chinese (Simplified) Stroke Font
	Chinese (Traditional)	Chinese (Traditional) Stroke Font
	Korean	Korean Stroke Font
	Cyrillic ^{*1}	Cyrillic Stroke Font
	Thai	Thai Stroke Font
Standard Font	Japanese	Japanese Standard Font
	ASCII	Standard Font for languages supported by ASCII character set
	Chinese (Simplified)	Chinese (Simplified) Standard Font
	Chinese (Traditional)	Chinese (Traditional) Standard Font
	Korean	Korean Standard Font

*1 Cyrillic letters are mainly used in Russian, Ukrainian, Bulgarian, Byelorussian, Serbian, Macedonian, Kazakh, Kirgiz, and Mongolian languages.

Add/Delete Font

Stroke font and standard font use the Font Area (4 MB). To use fonts other than Japanese Standard Font, ASCII Standard Font, and English Stroke Font, add and delete fonts. To add/delete fonts, from the [System Settings] menu, select [Font Settings].

System Settings 7 X Display Display	Display Unit Series GP3000 Series Model AGP-3500T Orientation Landscape
Display Unit Logic Programs Video/Movie Eont Peripheral Settings Device/PLC Printer Input Equipment Settings Script I/O Settings I/O Driver ETP Server Modem Video Modules	Font Font Used in Project Japanese Standard Font Chinese Graditional Standard Font Chinese Graditional Standard Font Chinese Graditional Standard Font Japanese Stroke Font Chinese Straditional Standard Font Microse Standa

To add Chinese (Simplified) Stroke Font, in the [Font Used in Project] box, select [Chinese (Simplified) Stroke Font]. 427KB of 4MB of the Font Area is used for Chinese (Simplified) Stroke Font. For more information on adding fonts, see the Appendix.

• Add only the fonts that are used in the project. Selecting unnecessary fonts stores the fonts on the GP. For example, on the AGP-3500T, if the font size exceeds the Font Area capacity of 8MB ^{*1} , the project then uses the User Screen Area, thereby reducing the capacity of user applications.			
concern and a monopy reducing the capacity of door approximation	IMPORTANT	 Add only the fonts that are used in the project. Selecting unnecessary for stores the fonts on the GP. For example, on the AGP-3500T, if the font si exceeds the Font Area capacity of 8MB^{*1}, the project then uses the User Screen Area, thereby reducing the capacity of user applications. 	nts ize r
		exceeds the Font Area capacity of 8MB ¹ , the project then uses the User Screen Area, thereby reducing the capacity of user applications.	r

*1 The User Screen Area's capacity depends on the GP model.

"1.3 List of Supported Functions by Device" (page 1-5)

• Japanese Standard Font, ASCII Standard Font, and English Stroke Font are fixed. These fonts are automatically transferred to the GP with little load on the Font Area (4 MB) and can be used without considering the font size.

Compatible Character Codes

To display characters in the Data Display (Text Display) on the device/PLC, use the following character codes, depending on the display language set for the data display.

Data Display Part's Display Language Display Language	Corresponding Text Code	Remarks
Japanese	Shift JIS Code	
ASCII	Code Page 850 Code Page 1250 Code Page 1252 Code Page 1254 Code Page 1257	 IMPORTANT The ASCII Standard Font only corresponds to Code Page 850. Before using the English Stroke Font, be sure to refer to the following text list. * ASCII Stroke Font Dedicated Text List" (page 6-7)
Chinese (Simplified)	GB 2312	
Chinese (Traditional)	BIG5	
Korean	KS C 5601	
Cyrillic	Code Page1251	
Thai	Code Page 874	

ASCII Stroke Font Dedicated Text List

If you are using Stroke Fonts for languages supported by the ASCII character set, only the black letters in the following list can be displayed in the Data Display (Text Display). Under the black letter, the Code Page 850's hexadecimal character code number is displayed.

• The red characters cannot be displayed on a Data Display Part (Text Display).





■ Character List of Stroke Fonts Exclusive to Cyrillic

The following characters are supported as Cyrillic.

The Character Code is displayed under each letter. The first code is Native code and the second is Unicode.

	!	"	#	\$	%	&		()	*	+		_		/
0x20	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	0x2C	0x2D	0x2E	0x2F
0x0020	0x0021	0x0022	0x0023	0x0024	0x0025	0x0026	0x0027	0x0028	0x0029	0x002A	0x002B	0x002C	0x002D	0x002E	0x002F
0	1	2	3	4	5	6	7	8	9	:	-	<	=	>	?
0x30	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
0x0030	0x0031	0x0032	0x0033	0x0034	0x0035	0x0036	0x0037	0x0038	0x0039	0x003A	0x003B	0x003C	0x003D	0x003E	0x003F
@	Α	В	С	D	Е	F	G	Н	Ι	J	K	L	Μ	Ν	0
0x40	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
0x0040	0x0041	0x0042	0x0043	0x0044	0x0045	0x0046	0x0047	0x0048	0x0049	0x004A	0x004B	0x004C	0x004D	0x004E	0x004F
P	Q	R	S	T	U	V	W	X	Y	Ζ		¥			
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
0x0050	0x0051	0x0052	0x0053	0x0054	0x0055	0x0056	0x0057	0x0058	0x0059	0x005A	0x005B	0x005C	0x005D	0x005E	0x005F
0.00	a	b	C	d	е	f	g	h	<u> </u>	j	k		m	n	0
00000	0x01	0x02	0x03	0x04	0x00	0x00	UX07	020069	0x09	0x0A	0x08	0x00		UXDE	0x0F
0x0000	0x0001	0x0002	0x0003	0x0004	0x0005	0x0000	0x0007	0x0008	0x0009	00000A	0x000B	0x0080	100000	~	UXUUUF
р	q	r	S	t	u	V	W	X	У	Z	{		}		
0x70	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
0x0070	0x0071	0x0072	0x0073	0x0074	0x0075	0x0076	0x0077	0x0078	0x0079	0x007A	0x007B	0x007C	0x007D	0x007E	0x007F
Ъ	ŕ	,	ŕ	"	• • •	†	‡		‰	JЬ	<	Њ	Ŕ	ħ	Ų
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
0x0402	0x0403	0x201A	0x0453	0x201E	0x2026	0x2020	0x2021	0x20AC	0x2030	0x0409	0x2039	0x040A	0x040C	0x040B	0x040F
ħ	6	,	66	77	•	_			ТМ	Jb	>	њ	Ќ	ħ	Ų
0,00	001			0.01	0,05	0,06	0~97	0x98	0x99	0x9A	0x9B	0x9C	0x9D	0x9F	0x9F
0,00	0291	0x92	0x93	0294	0,000	0,000	0,07		0 0100	0 0 4 5 0	0 0001	0.0454	0.0450	0.0155	0.0455
0x0452	0x2018	0x92 0x2019	0x93 0x201C	0x94 0x201D	0x95 0x2022	0x90 0x2013	0x2014		0x2122	0x0459	0x203A	0x045A	0x045C	0x045B	0x045F
0x0452	0x2018 Ў	0x92 0x2019 Ў	0x93 0x201C J	0x94 0x201D	0x93 0x2022	0x90 0x2013	0x2014	Ë	0x2122 ©	0x0459	0×203A	0x045A	0x045C	0x045B	0x045F
0x0452	0x91 0x2018 Ў 0xA1	0x92 0x2019 Ŭ 0xA2	0×93 0×201C J 0×A3	0x94 0x201D	0x95 0x2022 Ґ 0xA5	0x90 0x2013 0xA6	0x2014 § 0xA7	Ë 0xA8	0x2122 © 0xA9	0x0459 E 0xAA	0x203A		0x045C (R) 0xAD	0x045B	0x045F 0xAF
0x0452 0xA0 0x00A0	0x91 0x2018 Ў 0xA1 0x040E	0x92 0x2019 Ў 0xA2 0x045E	0×93 0×201C J 0×A3 0×0408	0x94 0x201D C 0xA4 0x00A4	0×95 0×2022 Г 0×A5 0×0490	0x2013 0x2013 0xA6 0x00A6	0x2014 § 0xA7 0x00A7	Ë 0xA8 0x0401	0x2122 © 0xA9 0x00A9	0x0459 E 0xAA 0x0404	0x203A 《 0xAB 0x00AB	0x045A 0xAC 0x00AC	0x045C R 0xAD 0xAD	0x045B İ 0xAE 0x00AE	0x045F 0xAF 0x0407
0x0452 0xA0 0x00A0 0	0x2018 Š 0xA1 0x040E ±	0x92 0x2019 Ў 0xA2 0x045E I	0×93 0×201C J 0×A3 0×0408 i	0x94 0x201D 0xA4 0x00A4 r	0x93 0x2022 C 0xA5 0x0490 P	0x2013 0xA6 0x00A6 0x00A6	0x2014 S 0xA7 0x00A7 •	Ë 0xA8 0x0401 Ë	0x2122 © 0xA9 0x00A9 NO.	0x0459 E 0xAA 0x0404 E	0x203A	0x045A 	0x045C ® 0xAD 0x00AD S	0x045B 0xAE 0x00AE S	0x045F 0xAF 0x0407 i
0x0452 0xA0 0x00A0 0 0xB0 0xB0	0x91 0x2018 Ž 0xA1 0x040E ± 0xB1	0x92 0x2019 Ŭ 0xA2 0x045E 1 0xB2 0x0406	0×93 0×201C J 0×A3 0×0408 i 0×B3 0×0456	0x94 0x201D 0xA4 0x00A4 C 0xB4 0x0491	0x93 0x2022 C 0xA5 0x0490 UxB5 0x0085	0x90 0x2013 0xA6 0x00A6 ¶ 0xB6 0x00P6	0x2014 S 0xA7 0x00A7 - 0xB7 0x00P7	Ë 0xA8 0x0401 ë 0xB8	0x2122 © 0xA9 0x00A9 NO. 0xB9 0x2116	0x0459 E 0xAA 0x0404 E 0xBA 0x0454	0x203A (0xAB 0x00AB 0x00AB 0xBB 0x00BB	0x045A 0xAC 0x00AC j 0xBC 0x0458	0x045C (R) 0xAD 0x00AD 0x00AD 0x00AD 0x00AD	0x045B 0x045B 0xAE 0x00AE S 0xBE 0x0455	0x045F 0xAF 0x0407 i 0xBF
0x0452 0x0452 0x00A0 0 0x00A0 0 0x00B0 0x00B0	0x91 0x2018 Ў 0xA1 0x040E ⊥ 0xB1 0x00B1 Б	0x92 0x2019 0xA2 0x045E 0x045E 0x0406 R	0×93 0×201C J 0×A3 0×0408 i 0×B3 0×0456	0x94 0x201D 0xA4 0x00A4 C 0xB4 0x0491	0x93 0x2022 C 0xA5 0x0490 U 0xB5 0x00B5 F	0x90 0x2013 0xA6 0x00A6 ¶ 0xB6 0x00B6 0x00B6	0x2014 § 0xA7 0x00A7 • 0xB7 0x00B7 Q	Ë 0xA8 0x0401 ë 0xB8 0x0451 √	0x2122 © 0xA9 0x00A9 0x00A9 0x00A9 0x89 0x2116	0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K	0x203A (0xAB 0x00AB 0x00AB 0xBB 0x00BB	0x045A 0xAC 0x00AC j 0xBC 0x0458 M	0x045C (R) 0xAD 0x00AD 0x00AD 0x0405 H	0x045B 0x045B 0xAE 0x00AE 0x00AE 0x08E 0x0455 0x0455	0x045F 0xAF 0x0407 i 0xBF 0x0457
0x0452 0x0452 0x00A0 0x00A0 0 0x00B0 0x00B0 0x00B0	0x91 0x2018 Ў 0xA1 0x040E 土 0xB1 0x00B1 Б	0×92 0×2019 Ў 0×A2 0×045E I 0×B2 0×0406 B	0×93 0×201C 0×A3 0×0408 i 0×B3 0×0456	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 0x0491	0×93 0×2022 C 0×A5 0×0490 U×B5 0×00B5 E	0x90 0x2013 0xA6 0x00A6 ¶ 0xB6 0x00B6 0x00B6 0x00B6	0x2014 S 0xA7 0x00A7 • 0xB7 0x00B7 S 0x00B7 S 0x00B7 S 0x00B7 S 0x00A7	E 0xA8 0x0401 ë 0xB8 0x0451 V	0x2122 © 0xA9 0x00A9 NO. 0xB9 0x2116 Ŭ	0x0459 8 0xAA 0x0404 8 0xBA 0x0454 K	0×203A (Constraints) 0×AB 0×00AB 0×00BB 0×00BB 0×00BB	0x045A 0x045A 0xAC 0x00AC j 0xBC 0x0458 M	0x045C ® 0xAD 0x00AD S 0xBD 0x0405 H	0x045B 0x045B 0xAE 0x00AE 0x00AE 0xBE 0x0455 0 0	0x045F 0xAF 0x0407 i 0xBF 0x0457
0x0452 0x0452 0x00A0 0x00A0 0x00B0 0x00B0 0x00B0 0x00B0 0x0010	0x91 0x2018 Ў 0xA1 0x040E ⊥ 0xB1 0x0B1 5 0xC1 0xC1 0xC1	0x92 0x2019 Ў 0xA2 0x045E I 0xB2 0x0406 B 0xC2 0x0412	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0xC413	0x94 0x201D 0xA4 0x00A4 r 0xB4 0x0491 <u>0xC4</u> 0xC4	0x93 0x2022 C 0xA5 0x0490 0xB5 0x0085 E 0xC5 0xC5	0x96 0x2013 0xA6 0x00A6 0x00A6 0x00B6 0x00B6 0x00B6 0x06 0x06 0x06	0x07 0x2014 S 0xA7 0x0A7 0x00A7 • 0xB7 0x00B7 3 0xC7	Ë 0xA8 0x0401 ë 0xB8 0x0451 V 0xC8	0x2122 © 0xA9 0x00A9 0x00A9 0x89 0x2116 0x29 0xC9 0xC9	0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA	0x203A 0xAB 0x00AB 0x00BB 0x00BB 0x00BB 0x00BB	0x045A 0xAC 0xAC 0x00AC j 0xBC 0x0458 M 0xCC 0x041C	0x045C (R) 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0x041D	0x045B 0xAE 0xAE 0x00AE 0x0455 0x0455 0x041E	0x045F 0xAF 0x0407 i 0xBF 0x0457 0xCF 0xCF
0x0452 0x0452 0x0000 0x0000 0x0000 0x0000 0x000 0x0010 0x0410 P	0x91 0x2018 Ў 0xA1 0x040E ± 0xB1 0x0B1 0x00B1 0xC1 0x0411 C	0x92 0x2019 Ў 0xA2 0x045E I 0xB2 0x0406 B 0xC2 0x0412 T	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y	0x94 0x201D Фхоил 0x044 0x00A4 С 0x0491 0x0491 0x0491 0x0414 Ф	0x93 0x2022 ľ 0xA5 0x0490 µ 0xB5 0x00B5 E 0xC5 0x0415 X	$ \begin{array}{c} 0x96 \\ 0x2013 \\ 1 \\ 0xA6 \\ 0x00A6 \\ \hline 0x00A6 \\ 0x00B6 \\ 0x00B6 \\ \hline 0x00B6 \\ 0x00416 \\ \hline 1 \\ 1 \end{array} $	0x87 0x2014 § 0xA7 0x00A7 • 0x00A7 • 0x087 0x00B7 0x00B7 0x07 0x0417 Q	і 0×А8 0×0401 С 0×В8 0×0451 0×С8 0×С8 0×С8 0×С8	0x2122 0xA9 0x00A9 0x00A9 0x00A9 0x00A9 0x02116 0xC9 0xC9 0xC9 0x0419	0x0459 0xAA 0x0404 0xBA 0x0454 K 0xCA 0xCA 0xCA	0x203A 0xAB 0x00AB 0x00AB 0x00BB 0x00BB 0x00BB 0xCB 0xCB 0xCB	0x045A 0xAC 0xAC 0xBC 0x0458 0x0458 M 0xCC 0x041C b	0x045C (R) 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0xCD 0x041D Ox	0x045B 0x045B 0xAE 0x00AE 0x0455 0x0455 0xCE 0x041E HO	0x045F 0xAF 0x0407 i 0xBF 0x0457 0xCF 0xCF 0xCF 0x041F 9
0x0452 0x0452 0x00 0x00A0 0x00A0 0x00B0 0x00B0 0x00B0 0x0410 0x0410 0x00	$\begin{array}{c} 0 \times 91 \\ 0 \times 2018 \\ \hline $	0x92 0x2019 Ў 0xA2 0x045E I 0xB2 0x0406 B 0xC2 0x0412 T 0xD2	$\begin{array}{c} 0 \times 93 \\ 0 \times 201 C \\ \hline \\ 0 \times A3 \\ 0 \times 0408 \\ \hline \\ 0 \times B3 \\ 0 \times 0456 \\ \hline \\ 0 \times C3 \\ 0 \times 0413 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	0x94 0x201D 0xA4 0x00A4 0x044 0x0491 0xC4 0x0414 Ф 0xD4	$0 \times 93 \\ 0 \times 2022 \\ \Gamma \\ 0 \times 45 \\ 0 \times 0490 \\ \mu \\ 0 \times 85 \\ 0 \times 0490 \\ F \\ 0 \times 05 \\ 0 \times 0415 \\ X \\ 0 \times 05 \\ 0 \times $	0x96 0x2013 0xA6 0x00A6 0x00A6 0x00B6 0x00B6 0x00B6 0x0416 0x0416	0x2014 § 0xA7 0x00A7 · 0xB7 0x00B7 0x00B7 0x00B7 0x0017 Qx0417 U 0x0417 Qx047	Е 0xA8 0x0401 С 0xB8 0x0451 ОxC8 0x0418 0x0418 0x0418	0x2122 0xA9 0x00A9 0x00A9 0x089 0x2116 X 0xC9 0xC9 0x0419 U 0x09 0x0419 0x09	0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A D 0xDA	0x203A 0xAB 0x00AB 0x00BB 0x00BB 0x00BB 0x00BB 0x00BB 0x00BB 0x00BB 0x00BB 0x00BB 0x00BB 0x00BB	0x045A 0xAC 0x00AC 0x00AC 0x0458 M 0xCC 0x0458 0xCC 0x041C 0xDC	0x045C (R) 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0x041D 0x041D 0xDD	0x045B 0x045B 0xAE 0x00AE 0x0455 0x05 0x	0x045F 0xAF 0x0407 i 0xBF 0x0457 0 xCF 0x041F 9 0xDF
0x0452 0xA0 0x00A0 0 0x00B0 0x00B0 0x00B0 0x00B0 0x0410 0x0410 0x0410 0x0420	$\begin{array}{c} 0x91 \\ 0x2018 \\ \hline y \\ 0xA1 \\ 0x040E \\ \hline \\ 0xB1 \\ 0x00B1 \\ \hline \\ 0x00B1 \\ \hline \\ 0x0411 \\ \hline \\ 0x0411 \\ \hline \\ 0x041 \\ 0x0421 \\ \hline \end{array}$	0x92 0x2019 Ŭ 0xA2 0x045E I 0xB2 0x0406 B 0xC2 0x0412 T 0xD2 0x0422	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423	0x94 0x201D 0xA4 0x00A4 0x0491 0xC4 0x0491 0xC4 0x0414 Ф 0x044 0x044	0x93 0x2022 C 0xA5 0x0490 0xB5 0x0490 E 0xB5 0x005 0x0415 X 0xD5 0x0425	0x96 0x2013 0xA6 0x00A6 0x00A6 0x00B6 0x00B6 0x00B6 0x0416 U 0xD6 0x0426	0x2014 § 0xA7 0x00A7 • 0xB7 0x00B7 0x00B7 0x00B7 0x0417 Q 0xC7 0x0417 Q 0xD7 0x0427	ё 0×А8 0×0401 ё 0×0451 0×0451 0×0451 0×0418 0×0418 0×0418 0×0428	0x2122 0xA9 0x00A9 0x00A9 0x049 0x2116 X 0xC9 0x0419 0x04 0x09 0x0429	0x0459 E 0xAA 0x0404 E 0xBA 0x0454 K 0xCA 0x041A D 0xDA 0x0A	0x203A 0xAB 0x0AB 0x0BB 0x0BB 0x0BB 0x0BB 0x041B 0x0B 0x0B 0x0B	0x045A 0xAC 0x00AC 0x00AC 0x0458	0x045C (R) 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0x041D 0x041D 0x0D 0x042D	0x045B 0x045B 0xAE 0x00AE 0x0455	0x045F 0xAF 0x0407 Ï 0x0407 Qx0457 Qx0457 Qx0457 Qx041F Qx041F Qx0F 0x042F
0x0452 0x0452 0x00A0 0 0x00A0 0 0x00B0 0x00B0 0x00B0 0x00B0 0x0410 0x0410 0x0420 0x0420 0x0420	0x91 0x2018 Ý 0xA1 0x040E ± 0xB1 0x00B1 0x00B1 0x0411 0x0411 0x0411 0x0411 0x0411 0x0411 0x041 0x041 0x041 0x041 0x040 0x04 0	0x92 0x2019 Ў 0xA2 0x045E I 0x0406 B 0xC2 0x0412 T 0xD2 0x0422 B	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C	0x94 0x201D 0xA4 0x00A4 0x0491 0x0491 0x0491 0x0491 0x0414 0x0414 0x0414 0x0424 Д	0x93 0x2022 C 0xA5 0x0490 0xB5 0x0085 0x0085 0x0085 0x0425 0x0425 0x0425 0x0425	0x90 0x2013 0xA6 0x00A6 0x00A6 0x00B6 0x00B6 0x00B6 0x0416 0x0416 0x0426 0x0426 X	0x2014 S 0xA7 0x00A7 0x00A7 0x07 0x00B7 0x00B7 0x0417 Qx0417 Qx0417 Qx0427 3	Е 0×А8 0×0401 ė 0×B8 0×0451 Л 0×C8 0×0418 0×0418 0×0428 0×0428 0×0428 Л	0x2122 0xA9 0x0A9 0x0A9 0xB9 0x2116 0xC9 0xC9 0xC419 0x0419 0xD9 0x0429 Ň	0x0459 8 0xAA 0x0404 8 0xBA 0x0454 K 0xCA 0xCA 0x041A 0x042A K	0x203A 0xAB 0x0AB 0x0AB 0x0BB 0x0BB 0x0BB 0x041B 0x041B 0x042B Л	0x045A 0xAC 0x00AC 0x00AC 0x0458 M 0xCC 0x041C 0x041C 0x042C M	0x045C (R) 0xAD 0x00AD S 0x0405 H 0xCD 0x041D 0x041D 0x042D H	0x045B 0x045B 0x04E 0x00AE 0x0455 0x0455 0x0455 0x0455 0x041E 0x041E 0x042E 0x042E 0	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0x0457 0x041F 9 0x0F 0x041F 9 0x0F 0x042F
0x0452 0x0452 0x00A0 0 0x00A0 0 0x00B0 0x00B0 0x00B0 0x00410 0x0410 0x0410 0x0420 0x0420 0x0420 0x0420	$\begin{array}{c} 0 \times 91 \\ 0 \times 2018 \\ \hline $	0x92 0x2019 Ŭ 0xA2 0x045E I 0x0406 B 0xC2 0x0412 T 0xD2 0x0422 B 0xE2	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3	0x94 0x201D 0xA4 0x00A4 0x0491 0x0491 0x0491 0x0414 0x0414 0x0424 Д 0xE4	0x93 0x2022 C 0xA5 0x0490 0xB5 0x00B5 0x00B5 0x00B5 0x0425 0x0425 0x0425 0xE5	$\begin{array}{c} 0 \times 90 \\ 0 \times 2013 \\ 0 \times 20$	0x2014 S 0xA7 0x00A7 0x00A7 0x07 0x00B7 0x0417 0x0417 0x0427 3 0xE7	Е 0×А8 0×0401 0×В8 0×0451 0×С8 0×0418 0×0428 0×D8 0×0428 0×0428 0×E8	0x2122 © 0xA9 0x00A9 0x00A9 0x0419 0xC9 0x0419 0x09 0x0429 0x0429 0x0429 0x0429 0x0429 0x0429 0x049 0x049 0x049 0x04 0x	0x0459 0xAA 0x0404 0xBA 0xBA 0xCA 0xCA 0x041A 0xCA 0xDA 0x042A K 0xEA	0x203A 0xAB 0x0AB 0x00AB 0x0B 0x0B 0x041B 0x0B 0x042B 0x042B 0x0B 0x042B	0x045A 0xAC 0x00AC 0x00AC 0x0458 M 0xCC 0x041C 0x041C 0x042C M 0xEC	0x045C (R) 0xAD 0x00AD S 0x0405 H 0xCD 0x041D 0x041D 0x042D H 0xED	0x045B 0x045B 0x04E 0x00AE 0x0455 0x0455 0x0455 0x041E 0x041E 0x042E 0x042E 0x042E 0x042E	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0x0457 0x041F 9 0x041F 0x042F 0x042F 0x042F
0x0452 0x0452 0x00A0 0 0x00A0 0 0x00B0 0x00B0 0x00B0 0x0410 0x0410 0x0410 0x0420 0x0420 0x0430	$\begin{array}{c} 0 \times 91 \\ 0 \times 2018 \\ \hline \hline \\ 0 \times 041 \\ 0 \times 040E \\ \hline \\ 0 \times 041 \\ \hline \\ 0 \times 00B1 \\ 0 \times 00B1 \\ \hline \\ 0 \times 0411 \\ \hline \\ 0 \times 0411 \\ \hline \\ 0 \times 041 \\ \hline \\ 0 \times 041 \\ \hline \\ 0 \times 041 \\ \hline \\ 0 \times 0431 \\ \hline \end{array}$	0x92 0x2019 Ў 0xA2 0x045E I 0x0406 B 0xC2 0x0412 T 0xD2 0x0422 B 0xE2 0x0432	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3 0x0433	0x94 0x201D C 0xA4 0x00A4 r 0xB4 0x0491 0xC4 0x0414 0x0414 0x0424 Д 0x042 Д 0x0424 Д 0x044 0x044 Д	0x93 0x2022 C 0xA5 0x0490 0xB5 0x00B5 0x00B5 0x00B5 0x0425 0x0425 0x0425 0xE5 0x0435	$\begin{array}{c} 0 \times 90 \\ 0 \times 2013 \\ 0 \times 20$	0x2014 S 0xA7 0x00A7 0x00A7 0x07 0x00B7 0x0477 0x0417 Qx0417 Qx0427 3 0xE7 0x0437	ін ін 0xA8 0x0401 0x 0x88 0x0451 In 0xC8 0x0451 0x0418 In 0x0428 In 0x0428 In 0x0438 In	0x2122 © 0xA9 0x00A9 0x00A9 0x0419 0xC9 0x0419 0x0429 0x0429 0x0429 0x0439 0xE9 0x0439	0x0459 0xAA 0x0404 0xBA 0xBA 0x0454 K 0xCA 0x041A 0x041A 0xDA 0x042A K 0xEA 0xEA	0x203A (0xAB 0x00AB 0x00AB 0x0B 0x0B 0x041B 0x0B 0x042B 0x042B 0x042B 0x043B	0x045A 0xAC 0x00AC 0x00AC 0x0458 M 0xCC 0x041C 0x041C 0x042C 0x042C M 0xEC 0x043C	0x045C (R) 0xAD 0x00AD S 0xBD 0x0405 H 0xCD 0x041D 0x041D 0x042D H 0xED 0x043D	0x045B 0x045B 0x00AE 0x00AE 0x0455 0x0455 0x0455 0x0455 0x041E 0x041E 0x042E 0x042E 0x043E	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0x0457 0x041F 9 0x042F 0x042F 0x042F 0xEF 0x043F
0x0452 0x0452 0x0452 0x00A0 o 0x00B0 0x00B0 0x00B0 0x00B0 0x0410 0x0410 0x0420 0x0420 0x0420 0x0420 0x0420 0x0420 0x0420 0x040 0x0452	$\begin{array}{c} 0 \times 91 \\ 0 \times 2018 \\ \hline 0 \times 2018 \\ \hline 0 \times 041 \\ 0 \times 040E \\ \hline \\ 0 \times 0411 \\ \hline \\ 0 \hline 0 \\ 0 \hline \hline \\ 0 \hline 0 \\ 0 \hline 0 \hline 0$	0x92 0x2019 ÿ 0xA2 0x045E I 0x0406 B 0xC2 0x0412 T 0x0422 0x0422 B 0xE2 0x0432 T	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3 0x0433 y	0x94 0x201D 0xA4 0x00A4 0xB4 0x0491 0xC4 0x0414 Ф 0x0414 Ф 0x0424 Д 0xC4 0x0424 Ф	0x93 0x202 C 0xA5 0x0490 0xB5 0x0085 0x0085 0x0085 0x0415 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0425 0x0490 0x040 0x0490 0x0490 0x0400 0x0400 0x040	$\begin{array}{c} 0 \times 90 \\ 0 \times 2013 \\ 0 \times 20$	0x2014 S 0xA7 0x00A7 0x00A7 0x087 0x0087 0x0477 0x0477 0x0427 3 0xE7 0x0437 4	ЭхА8 0хА8 0х0401 Ö 0х0401 Ö 0x0401 Ö 0x0401 Ö 0x0401 0x041 0x041	0x2122 © 0xA9 0x00A9 0x00A9 0x2116 Й 0xC9 0x0419 0x0429 0x049	0x0459 0xAA 0x0404 0x0404 0x0454 0x0454 K 0x0454 0x041A 0x041A 0x042A K 0x042A K 0x043A CxEA 0x043A CxEA	0x203A 0xAB 0xAB 0x00AB 0x00BB 0x00B 0x041B 0x041B 0x042B 0x042B 0x042B 0x042B 0x042B 0x042B 0x043B 0x043B	0x045A 0xAC 0x0AC 0x0AC 0x0458 M 0xCC 0x0458 M 0xCC 0x041C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x045	0x045C (R) 0xAD 0x0AD 0x0AD 0x0405 H 0xCD 0x041D 0x041D 0x042D 0x042D 0x042D 0x042D 0x042D 0x042D 0x042D 0x042D 0x042D	0x045B 0x045B 0x00AE 0x00AE 0x0455 0 0x0455 0 0x0455 0 0x041E 0x041E 0x042E 0x04E	0x045F 0xAF 0x0407 i 0xBF 0x0457 0xCF 0x041F 9 0x041F 0x042F 0x042F 0x042F 0x043F 0xEF 0x043F
0x0452 0x0452 0x0452 0x00A0 o 0x00A0 0x00B0 0x00B0 0x00B0 0x0410 0x0410 0x0420 0x0420 0x0420 0x0420 0x0420 0x0420 0x0452	$\begin{array}{c} 0 \times 91 \\ 0 \times 2018 \\ \hline 0 \times 2018 \\ \hline 0 \times 041 \\ 0 \times 040E \\ \hline \\ 0 \times 0411 \\ \hline \\ 0 \times 0 \\ \hline 0 \\ 0 \hline 0 \\ 0 \\ 0 \hline 0 \\ 0 \\ 0 \hline 0 \\ 0 \hline 0 \\ 0 \hline 0$	0x92 0x2019 ÿ 0xA2 0x045E I 0xB2 0x0406 B 0xC2 0x0412 T 0xD2 0x0422 B 0xE2 0x0432 T 0xF2	0x93 0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3 0x0433 y 0xF3	0x94 0x201D C 0xA4 0x00A4 r 0xB4 0x0491 0x0491 0x0491 0x0414 0x0414 0x0414 0x0424 0x0424 Q 0xE4 0x0434 0xF4	0x93 0x202 C 0xA5 0x0490 0xB5 0x0085 C 0x045 0x0415 0x0425 0x0425 0x0435 C 0xE5 0x0435 0xE5	$\begin{array}{c} 0 \times 90 \\ 0 \times 2013 \\ 0 \times 20$	0x2014 S 0xA7 0x00A7 • 0xB7 0x00B7 Ox07 0x0417 Q 0x07 0x0427 Q 0xE7 0x0437 Q Q Q V Q V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O V O O O O O O O O	ін 0×А8 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0401 0×0402 0×0428 0×0403 0×0403 0×0403 0×0403 0×0403 0×0403	0x2122 0xA9 0xA9 0x00A9 0x00A9 0x2116 0xC9 0xC9 0x0419 0x0429 0x0429 0x0429 0x0429 0x0429 0x0439 UL 0xF9	0x0459 0xAA 0x0404 0x0404 0x0454 K 0x0454 0x0454 0x041A 0x042A 0x042A K 0x042A 0x042A 0x043A K 0x043A 0x043A	0x203A 0xAB 0xAB 0x00AB 0x00BB 0x00B 0x041B 0x042B 0x04B 0x04B 0x04B 0x04B 0x04B 0x04B 0x04B 0x04B 0x0	0x045A 0xAC 0x0AC 0x0AC 0x0AC 0x0458 M 0xCC 0x0458 M 0xCC 0x041C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x042C 0x0458 0	0x045C (R) 0xAD 0x0AD 0x0AD 0x0405 H 0xCD 0x041D 0x041D 0x042D 0x04	0x045B 0x045B 0x0AE 0x00AE 0x0455 0 0x0455 0 0x0455 0 0x041E 0x042E 0x042E 0x042E 0x043E 0x043E 0x043E	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0x0457 0x041F 0x041F 0x042F 0x042F 0x042F 0x043F R 0xEF 0x043F

■ Character List of Stroke Fonts Exclusive to Thai

The following characters are supported as Thai.

The Character Code is displayed under each letter. The first code is Native code and the second is Unicode.

• The red characters cannot be displayed on a Data Display Part (Text Display).

		"	#	\$	0/	8.		(*	+		_		/
020	021	022	π	Ψ	/U	026	0	020	/	024	02D	,	02D	•	/
0x20	0x21	0x22 0x0022	0x23 0x0023	0x24 0x0024	0x25 0x0025	0x20 0x0026	0x27 0x0027	0x28 0x0028	0x29 0x0029	0x2A 0x002A	0x2B 0x002B	0x20 0x002C	0x2D 0x002D	0x2E 0x002E	0x2F 0x002F
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
0x30	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
0x0030	0x0031	0×0032	0×0033	0×0034	0×0035	0×0036	0×0037	0x0038	0×0039	0x003A	0x003B	0x003C	0×003D	0x003E	0x003F
@	Α	B	C	D	E	F	G	Н	Ι	J	K	L	M	N	0
0x40	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
0x0040	0x0041	0x0042	0x0043	0x0044	0x0045	0x0046	0x0047	0x0048	0x0049	0x004A	0x004B	0x004C	0x004D	0x004E	0x004F
P	Q	R	S		U	V	W	Х	Y	Ζ	L	¥			_
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
×0000	0x0051	0x0032	0x0055	000000	0x00000	0x00000	0x0037	000000	0x0059	0x003A	I	0x0050	02003D	UXUUJE	0x003F
	а	b	С	d	е	Ť	g	n	I	J	K		m	n	0
0x60	0x61	0x62	0x63	0x64	0x65	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
0x0060	0X0061	0x0062	0x0063	0x0064	0x0065	0X0066	0x0067	0X0068	0x0069	0X006A	0X006B	UX006C	10X000D	0x006E ∼	0X006F
р	q	r	S	t	u	V	W	X	У	Z	{		}		
0x70	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
0x0070	0x0071	0x0072	0x0073	0x0074	0×0075	0x0076	0x0077	0x0078	0x0079	0x007A	0x007B	0x007C	0x007D	0x007E	0x007F
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
0x20AC					0×2026										
	4	,	66	77	-	_	_								
0x90	0x91	0×92	0x93	0x94	0×95	0x96	0x97	0x98	0×99	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F
0x90	0x91 0x2018	0x92 0x2019	0x93 0x201C	0x94 0x201D	0x95 0x2022	0x96 0x2013	0x97 0x2014	0x98	0x99	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F
0x90	_{0x91} 0x2018 ก	0x92 0x2019 ป	0x93 0x201C വ്വ	_{0x94} 0x201D ค	_{0x95} 0x2022 ศา	0x96 0x2013 %J	0x97 0x2014	0x98 จ	0×99 จิ	0x9A 	0x9B ฏ	_{0x9C}	_{0x9D} ស្ព	0x9E ฏ	0x9F រា
0x90	0x91 0x2018 ก 0xA1	0x92 0x2019 ป 0xA2	0×93 0×201C ฏ 0×A3	0x94 0x201D ค 0xA4	0x95 0x2022 ค า 0xA5	0x96 0x2013 %J 0xA6	0×97 0×2014 √ 0×A7	0×98 จ 0×A8	0×99 7 b 0×A9	0x9A 	0x9B ข 0xAB	0x9C ณ อxAC	0x9D ព្យ 0xAD	0x9E ฏ 0xAE	0x9F ភ្លា 0xAF
0×90 0×A0 0×A0	0x91 0x2018 n 0xA1 0x0E01	0x92 0x2019 1) 0xA2 0x0E02	0x93 0x201C ŋ 0xA3 0x0E03	0x94 0x201D ค 0xA4 0x0E04	0x95 0x2022 6 0xA5 0x0E05	0×96 0×2013 %J 0×A6 0×0E06	0x97 0x2014 0xA7 0x0E07	0×98 J 0×A8 0×0E08	0×99 7k 0×A9 0×0E09	0x9A ฏ 0xAA 0x0E0A	0x9B গ্র 0xAB 0x0E0B	0x9C ณ 0xAC 0x0E0C	0x9D ស្លូ 0xAD 0x0E0D	0x9E ฏ 0xAE 0x0E0E	0x9F ฏ 0xAF 0x0E0F
0x90 0xA0 0x00A0 จิฐ	0x91 0x2018 n 0xA1 0x0E01	0x92 0x2019 ข 0xA2 0x0E02 ตุม	0x93 0x201C ข 0xA3 0x0E03 ถู	0x94 0x201D ନ 0xA4 0x0E04 ର	0x95 0x2022 คำ 0xA5 0x0E05 ตำ	0x96 0x2013 จูป 0xA6 0x0E06 ถ	0×97 0×2014 ง 0×A7 0×0E07 ที	0×98 v 0×A8 0×0E08 D	0×99 จิ 0×A9 0×0E09 น	0x9A ข 0xAA 0x0E0A ป	0x9B ช 0xAB 0x0E0B ป	0x9C ณ 0xAC 0x0E0C ผ	0x9D ญ 0xAD 0x0E0D	0x9E ฏ 0xAE 0x0E0E ฟ	0x9F වූ 0xAF 0x0E0F ฟ
0×90 0×A0 0×00A0 9 9 0×B0 0×B0	0x91 0x2018 n 0xA1 0x0E01 M 0xB1	0x92 0x2019 1) 0xA2 0x0E02 ตุ <mark>ม</mark> 0xB2	0x93 0x201C ๆJ 0xA3 0x0E03 ถุน 0xB3	0x94 0x201D ค 0xA4 0x0E04 ด 0xB4	0x95 0x2022 คำ 0xA5 0x0E05 ดำ 0xB5	0x96 0x2013 % 0xA6 0x0E06 ຄ 0xB6	0x97 0x2014 N 0xA7 0x0E07 N 0xB7	0×98 v 0×A8 0×0E08 D 0×B8 0×B8	0×99 & 0×A9 0×0E09 & 0×B9 0×B9	0x9A ข 0xAA 0x0E0A ป 0xBA	0×9B ช 0×AB 0×0E0B ป 0×BB	0x9C ณ 0xAC 0x0E0C ฝ 0xBC	0x9D ญ 0xAD 0x0E0D ฝ 0xBD	0x9E Ĵ 0xAE 0x0E0E Ŵ 0xBE	0x9F 0xAF 0x0E0F W 0xBF
0×90 0×A0 0×00A0 จิ <u>ม</u> 0×B0 0×0E10	0x91 0x2018 n 0xA1 0x0E01 % 0xB1 0x0E11	0x92 0x2019 1) 0xA2 0x0E02 ตุม 0x0E2 0x0E12	0x93 0x201C ๆJ 0xA3 0x0E03 ถุม 0x0E3 0x0E13	0x94 0x201D P 0xA4 0x0E04 P 0xB4 0x0E14	0×95 0×2022 61 0×A5 0×0E05 61 0×B5 0×0E15	0x96 0x2013 %J 0xA6 0x0E06 n 0x0E6 0x0E16	0×97 0×2014 3 0×A7 0×0E07 1 0×0E7 0×0E17	0×98 v 0×A8 0×0E08 v 0×B8 0×0E18	0×99 จ. 0×A9 0×0E09 น 0×B9 0×0E19	0×9A ข 0×AA 0×0E0A ป 0×BA 0×0E1A	0×9B ข 0×AB 0×0E0B ป 0×BB 0×0E1B	0×9C	0×9D の×AD 0×0E0D ん 0×0E1D	0x9E ① 0xAE 0x0E0E W 0xBE 0x0E1E	0x9F 0xAF 0x0E0F W 0xBF 0x0E1F
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0x90 0xA0 0x00A0 0x0E10 0x0E10 0x0E20 0x0E20 0x0E20 0x0E30 0x0E30 0x0E30	0x91 0x2018 0xA1 0x0E01 %M 0xB1 0x0E11 0x0E11 0x0E21 ~ 0xD1 0x0E31 UL UxE1 0xE1	0x92 0x2019 7J 0xA2 0x0E02 % A 0x0E2 0x0E12 E 0x02 0x0E22 7 0x022 0x0E32 C 0x0E32 C	0x93 0x201C 9J 0xA3 0x0E03 Rk 0xB3 0x0E13 7 0xC3 0x0E23 0x0E23 7 0xD3 0x0E33 0x0E33 0x0E33 0x0E35 0x0E3	0x94 0x201D P1 0xA4 0x0E04 P 0xB4 0x0E14 F1 0xC4 0x0E24 0x0E34 0x0E34 C	0x95 0x2022 P1 0xA5 0x0E05 P3 0xB5 0x0E15 0x0E15 0x0E25 0x05 0x0E35 0x05 0x0E35 0x05 0x0E35	0x96 0x2013 % 0xA6 0x0E06 0x0E16 0x0E16 0x0E26 0x0E26 0x0E26 0x0E36 0x0E36 0x0E36	0x97 0x2014 \$ 0xA7 0x0E07 % 0x0E17 0x0E17 0x0E27 0x0E27 0x0E37 % 0xE7 0xE7	0×98 0×A8 0×A8 0×B8 0×B8 0×0E18 0×C8	0×99 N 0×A9 0×A9 0×0E09 14 0×0E19 14 0×0E29 0×0E29 0×0E39 2 ² 0×0E5 0×0E5	0x9A 3 0xAA 0x0E0A 1 0xBA 0x0E1A 0x0E2A 0x0E2A 0xDA 0x0E3A 0xEA 0xEA	0x9B ช 0xAB 0xAB 0x0E0B ป 0x0E1B 74 0xCB 0x0E2B 0xDB + 0xEB	0x9C îk) 0xAC 0x0E0C ik) 0x0E1C 0x0E1C 0x0E2C 0xDC 0xDC	0x9D 彩 のxAD 0xAD 0x0E0D 約 0x0E1D 0x0E1D 0x0E2D 0x0E2D 0xDD	0x9E 0xAE 0xAE 0x0E0E 0x0E1E 0x0E1E 0x0E2E 0x0E2E 0xDE c 0xEE 0xEE	0x9F 0xAF 0xAF 0x0E0F W 0xBF 0x0E1F 0x0E2F B 0xDF 0x0E3F 0x0F 0x0F
0x90 0xA0 0x00A0 3 0xB0 0x0E10 7 0x0E 0x0E20 0x0E20 0x0E30 0x0E30 0x0E40	0x91 0x2018 ก 0xA1 0x0E01 จิฟ 0xB1 0x0E11 จิฟ 0xC1 0x0E21 จิ 0xD1 0x0E31 ปเ ยเ 0xE1 0x0E41	0x92 0x2019 7J 0xA2 0x0E02 %J 0x0E2 0x0E12 EJ 0xC2 0x0E22 7 0x0E22 0x0E32 0x0E32 0x0E32 0x0E32	0x93 0x201C 9J 0xA3 0x0E03 Rk 0xB3 0x0E13 7 0xC3 0x0E23 0x0E23 7 0xD3 0x0E33 0x0E33 0x0E33 0x0E43	0x94 0x201D P1 0xA4 0x0E04 P1 0xB4 0x0E14 P1 0xC4 0x0E24 0x0E34 0xD4 0xE4 0x0E44	0x95 0x2022 P1 0xA5 0x0E05 P1 0xB5 0x0E15 0x0E15 0x0E25 0x0E25 0x0E35 0x0E35 0x0E5 0x0E45	0x96 0x2013 % 0xA6 0x0E06 0x0E16 0x0E16 0x0E26 0x0E26 0x0E36 0x0E36 0x0E36 0xE6 0x0E46	0x97 0x2014 \$ 0xA7 0x0E07 % 0x0E17 0x0E17 0x0E17 0x0E27 c 0x07 0x0E37 c 0xE7 0xE47	0×98 0×A8 0×A8 0×B8 0×B8 0×0E18 61 0×C8 0×C8 0×C8 0×0E38 0×0E38 0×0E38 0×C8	0×99 N 0×A9 0×A9 0×0E09 U 0×0E9 0×0E19 0×0E9 0×0E39 0×0E39 0×0E9 0×0E49	0x9A 3 0xAA 0x0E0A 1 0xBA 0x0E1A 3 0xCA 0x0E2A 0xDA 0x0E3A 0xEA 0xEA	0x9B ช 0xAB 0xAB 0x0E0B ป 0x0E1B 74 0xCB 0x0E2B 0xDB + 0xEB 0x0E4B	0x9C î) 0xAC 0xAC 0x0E0C i) 0x0E1C 0x0E1C 0x0E2C 0xDC 0xDC 0xEC 0xEC	0x9D 彩 のxAD 0xAD 0x0E0D 約 0x0E1D 0x0E1D 0x0E2D 0x0E2D 0xDD 0xDD 0xDD	0x9E 0xAE 0xAE 0x0E0E 0x0E1E 0x0E1E 0x0E2E 0x0E2E 0xDE c 0xEE 0xEE 0xEE	0x9F 0xAF 0xAF 0x0E0F W 0xBF 0x0E1F 0x0E2F B 0x0F 0x0E3F 0x0EF 0x0EF 0x0E4F
0x90 0xA0 0x00A0 0x0E10 0x0E10 0x0E20 0x0E20 0x0E30 0x0E30 0x0E30 0x0E40 0x0E40 0	0x91 0x2018 n 0xA1 0x0E01 % 0xB1 0x0E11 0x0E11 0x0E21 ~ 0xD1 0x0E31 UL 0xE1 0xE1 0xE1 0xE41 0x0E41	0x92 0x2019 7 0xA2 0x0E02 % 0x0E2 0x0E12 0x0E22 0x0E22 7 0x0E2 0x0E32 0x0E32 7 0xE2 0x0E42 0x0E42	0x93 0x201C ໆJ 0xA3 0x0E03 ຄ 0x0E3 0x0E13 0x0E33 0x0E33 0x0E33 0x0E33 0x0E33 0x0E33 0x0E43 0x0E43 0x0E43	0x94 0x201D P1 0xA4 0x0E04 P 0x0E14 P 0x0E14 0x0E24 0x0E34 0x0E34 Qx0E44 0x0E44 Q	0x95 0x2022 P1 0xA5 0x0E05 P3 0x0E15 0x0E15 0x0E25 0x0E25 0x0E35 0x0E35 0x0E5 0x0E45	0x96 0x2013 %1 0xA6 0x0E06 0x0E16 0x0E16 0x0E26 0x0E26 0x0E36 0x0E36 0x0E46 0x0E46 0x0E46	۵x97 0x2014 ۹ 0xA7 0x0E07 भ 0x0E17 0x0E17 0x0E27 ۹ 0xD7 0x0E37 ۹ 0xE7 0x0E47 0x0E47	0×98 0×A8 0×A8 0×0E08 0×0E18 0×0E18 0×0E28 0×0E28 0×0E38 0×0E38 0×0E48 0×0E48 0×0E48 0×0E48	0×99 % 0×A9 0×A9 0×0E09 ¼ 0×0E19 1 0×0E19 0×0E29 0×0E29 0×0E39 0×0E39 0×0E49 0×0E49 0 ×0E49 0 ×0E49	0x9A 1 0xAA 0x0E0A 1 0xBA 0x0E1A 0x0E1A 0xCA 0x0E2A 0xDA 0x0A 0x0E3A 0x0E3A 0x0E4A 0x0E4A	0x9B จป 0xAB 0x0E0B ป 0x0E1B 0x0E1B 0x0E2B 0x0E2B 0xDB 	0x9C î 0xAC 0x0E0C 0x0E1C 0x0E1C 0x0E2C 0x0E2C 0xDC 0xEC 0xEC 0x0E4C	0x9D	0x9E 0xAE 0xAE 0x0E0E W 0x0E1E 0x0E1E 0x0E2E 0x0E2E 0xDE c 0xEE 0x0E4E	0x9F 0xAF 0xAF 0x0E0F W 0x0E1F 0x0E2F B 0x0F 0x0E3F 0xEF 0x0E4F
0x90 0xA0 0x00A0 9 0x0E10 0x0E10 0x0E20 0x0E20 0x0E30 0x0E30 0x0E30 0x0E30 0x0E40 0xE0 0xE40 0xE0	0x91 0x2018 n 0xA1 0x0E01 % 0xB1 0x0E11 % 0xC1 0x0E21 ~ 0xD1 0x0E31 U 0xD1 0x0E31 U 0xE1 0x0E41 0xE1 0x0E41 0xE1	0x92 0x2019 0xA2 0x0E02 %J 0x0E12 0x0E12 0x0E22 0x0E22 7 0x0E2 0x0E32 7 0x0E32 0x0E32 0x0E42 0x0E42 0x0E42 0x0E42	0x93 0x201C ໆJ 0xA3 0x0E03 ຄ 0x0E3 0x0E13 0x0E23 ° 1 0xD3 0x0E33 0x0E33 0x0E33 0x0E33 0x0E43 0xE43 0xE43 0xE43	0x94 0x201D P1 0xA4 0x0E04 P1 0x0E4 0x0E14 P1 0x0E4 0x0E4 0x0E4 0x0E4 0x0E44 Cx 0xF4 0x0F4 0x0F4	0x95 0x2022 P1 0xA5 0x0E05 Ø1 0x0E5 0x0E15 0x0E25 0x0E25 0x0E35 0x0E35 0x0E5 0x0E45 0xE5 0x0E45 Cx	0x96 0x2013 %1 0xA6 0x0E06 0x0E16 0x0E16 0x0E26 0x0E26 0x0E36 0x0E46 0x0E46 0x0E46 0x0E46 0x0E46	0x97 0x2014	0×98 0×A8 0×A8 0×DE08 0×B8 0×DE18 0×C8 0×	0×99 % 0×A9 0×A9 0×0E09 ¼ 0×0E19 ½ 0×0E29 0×0E29 0×0E39 ° 0×0E39 ° 0×0E9 0×0E49 ° 0×0E49 ° °	0x9A 3 0xAA 0x0E0A 1 0xBA 0x0E1A 0x0E1A 0xCA 0x0E2A 0xDA 0xDA 0xDA 0x0E3A 0x0E4A 0x0E4A 3 0xFA 0xFA	0x9B 91 0xAB 0x0E0B 1 0xBB 0x0E1B 1 1 0xCB 0x0E2B 0x0E2B 0x0E4B 0x0E4B 0x0E4B 0x0E4B 0x0E4B	0x9C î 0xAC 0x0E0C 0x0E1C 0x0E1C 0x0E2C 0x0E2C 0xDC 0xC	0x9D	0x9E 0xAE 0xAE 0x0E0E W 0x0E1E 0x0E1E 0x0E2E 0x0E2E 0xDE c 0xEE 0x0E4E 0xFE	0x9F 0xAF 0xAF 0xAF 0x0E0F W 0x0E1F 0x0E2F B 0xDF 0x0E3F 0x0E4F 0xFF

NOTE

• Thai has many letters which are made up with multiple Unicodes (superimposed characters). However, GP recognizes each Unicode as one letter. As a result, letters drawn on GP-Pro EX may look different on GP.

For example, "Hello"



• You cannot use key parts for Thai, superimposed characters.

6.2.2 Setup Procedure

NOTE	 Japanese Standard Font, ASCII Standard Font, and English Stroke Font are fixed. You do not have to add or delete these fonts as in steps 1-4 below. Please refer to the settings guide for details. * "9.12.1 Text Settings Guide" (page 9-77)
	• For more information about text, please refer to "9.3 Writing Text" (page 9-23)

These fonts are used normally.

The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well.

For example, Text in stroke font



1 From the [System Settings] menu, select [Font Settings]. The following dialog box appears.



NOTE

• If the [System Settings] tab is not displayed, from the [View (V)] menu, point to [Work Space (W)] and select [System Settings (S)].

2 From [Font Used in Project], select the [Chinese (Simplified) Stroke Font] check box.



3 The following message appears.



Click [Yes]. You can confirm that the User Screen Area is also used.

Font Used in Project	-Font Size		
Japanese Standard Font	Font Area	3959 / 4096KB	The font data is
 English Stroke Font Chinese(Traditional) Standard Font 	User Screen Area		area where the
✓ Chinese (Simplified) Standard Font ✓ Chinese (Simplified) Standard Font		427 / 8192KB	screen data is
			saved.
Chinese(Traditional) Stroke Font			
Korean Stroke Font			
*The selected font will be transferred to the main unit.			

Click [No]. The font addition is canceled.

4 Clear the check box for the fonts you are not using. This allows more free space in the Font Area.

Font		
Font Used in Project	Font Size	
Japanese Standard Font	Font Area	J
English Standard Font Fnglish Stroke Font	427 / 4096KE	3
Chinese(Simplified) Standard Pont Chinese(Simplified) Standard Font Korean Stanard Font Chinese(Traditional) Stroke Font Chinese(Simplified) Stroke Font Korean Stroke Font To calested font will be transferred to	User Screen Area 0 / 6144Kt	3
the main unit.		

5 As an example, add text in Simplified Chinese to a screen. This example assumes you have enabled the Chinese (Simplified) font in your operating system. See the Appendix for more information. Place text in the drawing area then double-click to open the [Text] dialog box. In [Font Type], select [Stroke Font]. In [Display Language], select [Chinese (Simplified)]. In the text box, enter the text using pin yin. Then click [OK] to close the dialog box.

		(Setting
- - - - - - - - - - - - - - - - - - -	定输入画面	Image: Stroke Font Image: Stroke Font Ab c Font Image: Stroke Font Image: Stroke Font Im
		Text Color 了 P Blink None P E 王 王 Background Color Transparent P Blink None P Line Spacing 0
NOTE	 When you select th Language], the foll font type since a sw Confirm Font Type Ad Selected font ty Add the selected font ty Event Yes C To add the font, click If you click [No], add 	e [Stroke Font] in [Font Type] or change the [Display owing dialog box may appear. This confirms to add the vitch has been set before adding the font. Id pe is not set up in the Font Settings. d font type? No (N) : [Yes]. ding the font is canceled. The entered text cannot be

6.3 Image Font

6.3.1 Introduction

This font is used to draw with a Windows font and can appear pixelated when enlarged. You can use bold and italics as well as the standard style.



• You can select this font only when [Direct Text] is set in the partis label/text.

Text Feature

• You can display characters with various Windows fonts. Displays a Windows font as a bitmap.

For: "Arial/Italic"

• Text displays well regardless of enlargement/reduction or the text size. For example, if the placement size is enlarged by increasing the number of characters in the text, the text is displayed with the set font and text size.



- Can be used for bold/italics.
- Using too much of this font restricts the User Screen Area capacity. The image font uses the User Screen Area.

Taking a lot of memory by using larger character sizes or more characters may cause restrictions to create a screen. From the [Project (F)] menu, verify [Information (I)] - [Project Information (I)] - [Send Data] - [Send Size] to make sure not use too many Image Fonts.

NOTE

• The User Screen Area's capacity depends on the GP model. ** "1.3 List of Supported Functions by Device" (page 1-5)

6.3.2 Setup Procedure

```
NOTE
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• Please refer to the settings guide for details. ** "9.12.1 Text Settings Guide" (page 9-77)

Use the "Image Font". You can use bold and italics as well as the standard style. "Arial/Italic"



1 From the [Draw (D)] menu, select [Text (S)] or click A from the toolbar. Click on the base screen and drag to the desired size. Right-click to release the draw mode.

-	-
	· · · · · · · · · · · · · · · · ·

2 Double-click the new text. The following dialog box appears.

💰 Text					×
	Direct Text	C Text Table	•		
	Font				
	Font Type	Standard Font	•	Text Size	16 x 56 Pixel
ABC .	Display Language	ASCII	•	Text Attribute	Normal 💌
1 20 0	Direction	Horizontal	• 1	Alignment	
	-Color				
	Text Color	7	•	Blink Non	e 💌
	Background Color	Transparent	•	Blink Non	e 🔽
Line Spacing 0 🚊	Shadow Color	1	Ŧ	Blink Non	e 🔽
Text			_		
					_
				OK (<u>O</u>)	Cancel

3 In [Font Type], select [Image Font].

💰 Text				×
	 Direct Text 	C Text Table		
	Font		_	
	Font Type	Image Font 💌	J	
IABCI	Select Font	Microsoft San•••	Ţ	
	🔽 Compress		Alignment	
	-Color			
	Text Color	7	r Blink None 💌]
토토토티	Background Color	Transparent 🗨	Blink None 💌]
Line Spacing				
Text				
			OK (<u>O</u>)	Cancel

4 Click the [Select Font] button to display the setting dialog box.

Select Font	Microsoft S	an∵×	Click here.

5 Set the [Font], [Font Style] and [Size], then click [OK].

<u>F</u> ont:	Font style:	<u>Size:</u>	
Arial	Italic	14	OK
Arial Arial Black O Arial Narrow O Bold Italic Art O Book Antiqua O Book Antiqua O Bookshelf Symbol 7	Regular Italic Bold Bold Italic	14 18 20 22 24 26	Cancel
	Sample AaBby	′yZz	
	Seript:		

NOTE

If you use vertical text, select a font for vertical text (beginning with @ "For example, @MS Gothic") for the font.

6 Select the [Compress] check box. The font file size is compressed to about half the size, depending on characters.

💰 Text			×
	Direct Text Font	🔿 Text Table	
ABC	Font Type Select Font	Image Font 💽 HG創英角ポッ… 📰	C (dimensi
	Color	7	Blink None
E E E E	Background Color	Transparent 💽	Blink None 🔽
Text			
			OK (Q) Cancel

• [Compress] is recommended for reducing the project file volume.

7 Select the colors you want and input text in the Input Text border.



8 Click [OK] and the setting are completed.



6.4 [Font] Settings Guide



Se	tting	Description		
Font		Configure font settings.		
Font Used in		Select the fonts used in project files.		
	Project	NOTE		
		• Japanese Standard Font, ASCII Standard Font, and English Stroke Font are fixed.		
Font Size		Displays the memory size of the font.		
	Font Area	Displays the memory size in the font area from 0/4096 KB to 4096/4096		
		KB. When the font size exceeds the font area, it uses the user screen area.		
		NOTE		
		• GP-32**Series cannot be used in the font area.		
		When using a font other than [Japanese Standard Font], [ACSII Standard		
		Font] and [English Stroke Font], it uses the user screen area.		
	User Screen	Displays the memory size of the font used in the user screen area. The		
	Area	capacity of the user screen varies among GP models.		
		"1.3 List of Supported Functions by Device" (page 1-5)		

6.5 Restrictions

6.5.1 Restrictions for Standard Font

- When [ASCII] is selected for the [Standard Font] [Display Language], select a text size from the three fixed sizes [6 x 10 dot], [8 x 13 dot], and [13 x 23 dot].
- When the [Character Size] is [6 x 10 dot] fixed size, you cannot select [Bold] from the [Text Attribute].
- When you display the text registered in a text table on a part with a [Fixed Size], refer to the ASCII text table and select or add the partís text. Text on a table without ASCII language settings cannot be properly displayed on the GP.
- If you change the font type to [Standard Font] after the text has been entered as a [Stroke Font], the text may not be displayed on the GP.
- If you compare the display on GP-Pro EX and the GP main unit, there may be slight differences in the appearance of the standard font letters. This is caused by the fact that the standard font uses a Windows font and displays it in GP-Pro EX.
- GP-32**Series cannot be used in the font area. When using a font other than [Japanese Standard Font], [ACSII Standard Font] and [English Stroke Font], it uses the user screen area.
- If using several types of fonts, the user screen area is used for the font area excess. Therefore, the screen data capacity is decreased.

6.5.2 Restrictions for Image Font

• [Image Font] is a bitmap image. You cannot set the [Display Language], [Text Type], or Vertical Text (where the [Direction] is [Vertical].).