USER'S MANUAL

MP-1060

Thermal Receipt Printer

MP-1060 M1

MP-1060
Thermal Printer

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DISCLAIMER

This operation manual is meant to assist you in using the printer board. The information contained in this document is subject to change without any notice.

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INTRODUCTION

CHAPTER

1

This chapter gives you the information for MP-1060. It also outlines the system specifications.

Sections include:

- About This Manual
- System Specifications
- Safety Precautions

Experienced users can jump to chapter 2 on page 2-1 for a quick start.

1-1. ABOUT THIS MANUAL

Thank you for purchasing our MP-1060 Thermal Receipt Printer System. The MP-1060 is an updated system designed to be comparable with the highest performance of Point-of-Sale platforms. The MP-1060 provides faster processing speed, greater flexibility and can handle more commands than ever. This manual is designed to assist you how to install and set up the whole system. It contains five chapters. The user can refer the user's manual for configuration according to the following chapters:

Chapter 1 Introduction

This chapter introduces you to the background of this manual, and the specifications for this printer board. The final page of this chapter will indicate how to avoid damaging this board.

Chapter 2 Parts and Basic Operation

Chapter 3 Install and Set Up

Chapter 4 Hexadecimal Dumping & Self-Test

Chapter 5 Software Configuration

This chapter indicates you how to set up the printer system through the software utility.

Catchphrase:

1-2. SYSTEM SPECIFICATION

Features:

- 200mm high speed printing
- Vertical and horizontal stand position capable
- Built-in multi-language codepage includes Chinese, Japanese and Korean characters
- Support digital LOGO printing saved in FLASH ROM
- Modularized design of printer head.
- Multiple interface for USB/Serial and Ethernet Port
- Auto paper cutter for full cut and partial cut available
- Paper-near-end detector sensor and LED/Buzzer warring indicator.
- EPSON command and other emulation
- 1D/2D barcode printing supported
- Easy to set and high volume capacity of paper
- Spectacular value-add accessories
- OPOS driver supported

1-3. GENERAL SPECIFICATIONS

General	Print method	Thermal Line Printing
	Printing width	72mm
	Paper width	80mm
	Printable dot No.	576 dots
	Printing speed	Up to 200 mm/sec
	Resolution	8 dot/mm
	Sensors	Paper end, Cover Open, Paper-near-end(Optional)
	Cutter	Auto Cutter (Full/Partial) Tear bar
Paper	Type	Receipt Thermal paper
	Thickness	0.06mm~0.09mm
	Roll diameter	Max. 80.0mm
Reliability	Printing head	100 km
	MCBF	60 million lines
	Auto cutter	1.5 million cuts
Performance	Interface	USB(Virtual COM)/Serial, Ethernet(Optional)
	Receive Buffer	4KB
	Logo size	64K
Software	Emulation -	ESC/POS CMD compatible
	Driver	WinXP/Win7/Win8/ -32bits & 64bits/OPOS
Physical	Dimensions	142mm x 127mm x 154mm
	Weight	980g (w/o paper roll)
	Cash drawer	1x 6pin RJ-11 connecter
	Power supply	External 24v Adaptor

Language	Character Sets	Alphanumeric Characters: 95 Extended Characters: 128 x 8 Page (Blank x 1 Page) International Characters: 32
	Code Page	CP-437, Katakana character set, CP-850, CP-852, CP-860, CP-863, CP-865, WPC-1252
	Compound Character	Traditional Chinese, Simple Chinese, Japanese, Korean
	Character Size	Font A: 12 x 24 (default) Font B: 9 x 17 Font C: 24 x 24
	No. char per line	Font A: 36 C/L Font B: 48 C/L Font C: 18 C/L
Barcode	1D	UPC-A, UPC-E, JAN8(EAN8), JAN13(EAN13), CODE39, ITF(Interleaved 2 of 5), CODABAR(NW-7), CODE93, CODE128,
	2D	QR Code
Environment	Operating Temp	-10 to 50℃ (35 ℃ In case of Printing-rate over 10%)
	Storage Temp	-30 to 60℃
	Operating Temp	10 to 90% RH
	Storage Temp	10 to 90% RH expect for paper
Accessories		2” Paper Guide, Splash Proof Cover, Wall-mount Kit, Cable Cover, Paper-near-end Sensor Kit, Melody Box, Interface Cables, International Power Cords
Certification		CE, FCC

1-4. SAFETY PRECAUTIONS

Following messages are safety reminders on how to protect your systems from damages. And thus, helps you lengthen the life cycle of the system.

1. Check the Line Voltage

a. The operating voltage for the power supply should cover the range of 100VAC-240V AC, otherwise the system may be damaged.

2. Environmental Conditions

a. Avoid extremely hot or cold places to install MP-1060.

b. Avoid exposure to sunlight for a long period of time (for example in a closed car in summer time. Also avoid the system from any heating device.). Or do not use MP-1060 when it's been left outdoors in a cold winter day.

c. Bear in mind that the operating ambient temperature is from 5°C up to +35°C.

d. Avoid moving the system rapidly from a hot place to a cold place or vice versa because condensation may come from inside of the system.

e. Place MP-1060 against strong vibrations, which may cause hard disk failure.

f. Do not place the system too close to any radioactive device. Radio-active device may cause interference.

3. Good Care

a. When the outside of the case is stained, remove the stain with neutral washing agent with a dry cloth.

b. Never use strong agents such as benzene and thinner to clean the system.

c. If heavy stains are present, moisten a cloth with diluted neutral washing agent or with alcohol and then wipe thoroughly with a dry cloth.

d. If dust has been accumulated on the outside, remove it by using a special made vacuum cleaner for computers.

PARTS AND BASIC OPERATION

CHAPTER

2

Helpful information describes the parts and operation of MP-1060.

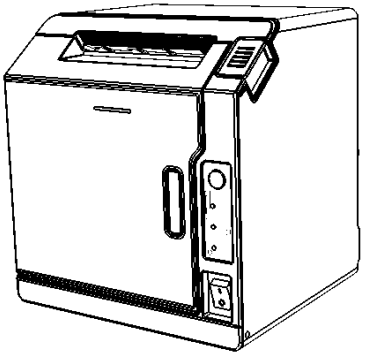
Sections include:

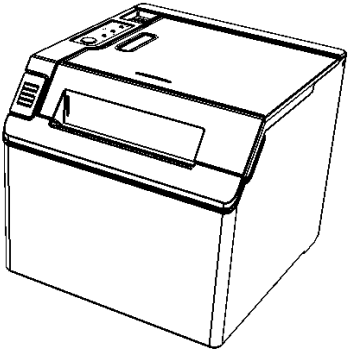
- Unpacking
- Part Structure
- Connectors

2-1. UNPACKING

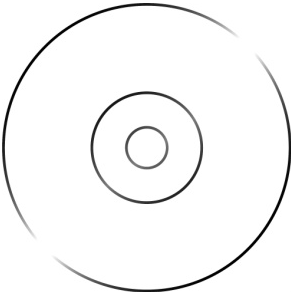
2-1-1 Main parts

- Printer (body) × 1





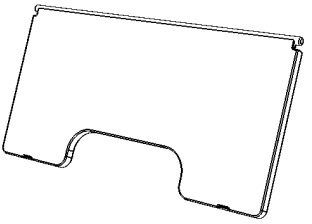
- User's CD-ROM × 1



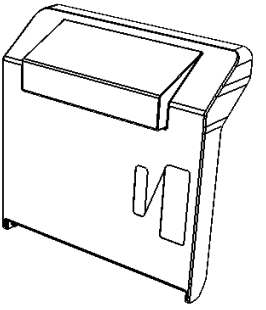
- External power supply unit × 1

2-1-2 Options

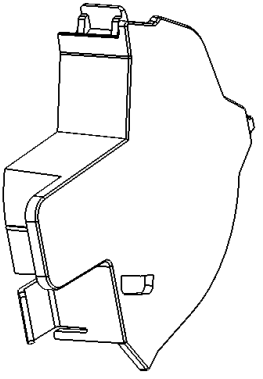
- Cable cover



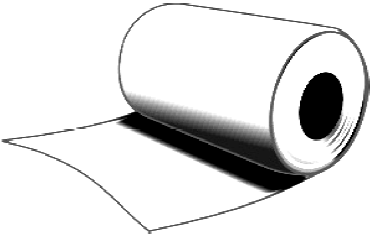
- Splash proof cover



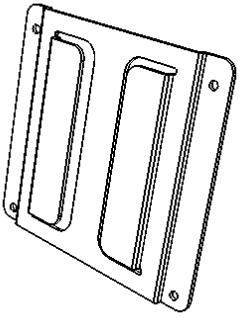
- 2" Paper guide

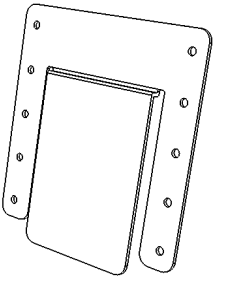


- 2"/3" 10M Test Roll paper

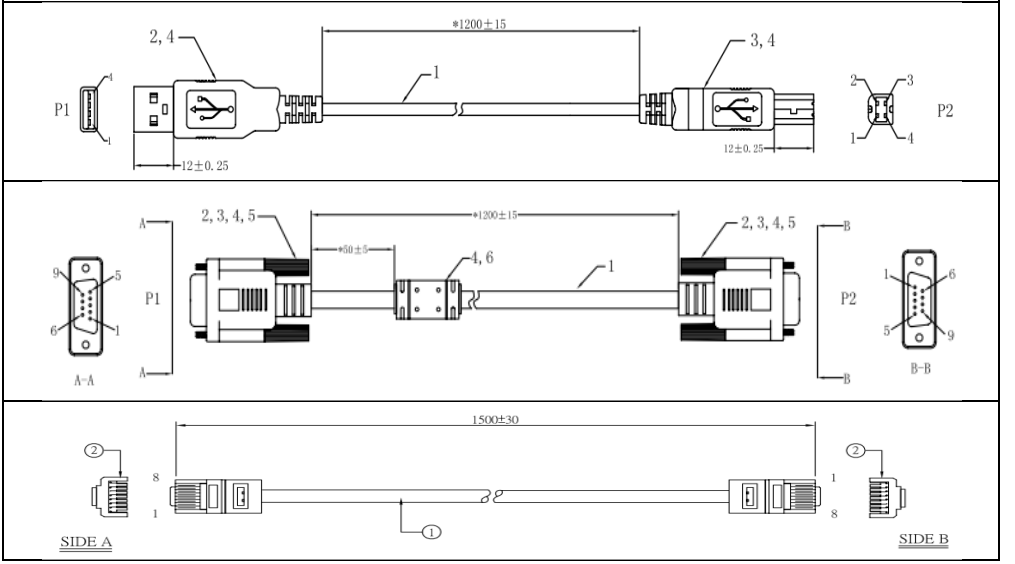


- Wall mount kits Hanging bracket set



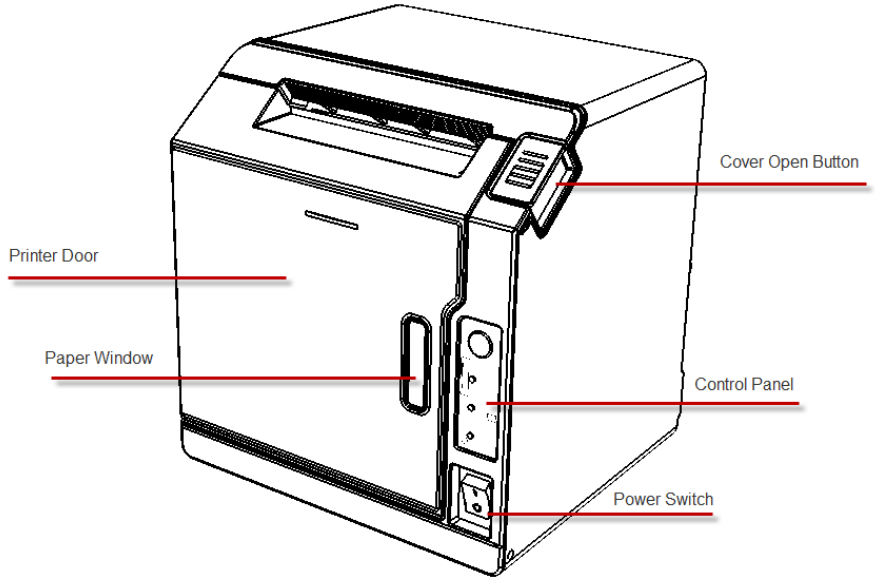


➢ External Interface Cables (USB/Serial/LAN)

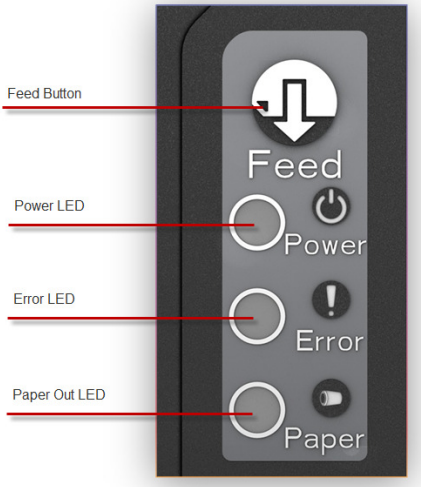


2-2 Part Structure

2-2-1 Main body



2-2-2 Control Panel



POWER (Blue)
- Lights when the power supply is on.
- Goes out when the power supply is turned off.

ERROR (Red)
- Lights when an error occurs.
- Goes out during regular operation.

PAPER (Yellow)
- Lights when there is no more roll paper.
- Goes out when there is a sufficient amount of roll paper remaining.
- Flashes when paper near end sensor is enabled and there is little remaining.

2-2-3 Buttons

FEED button
Pressing this button once feeds the roll paper by one line. Holding this button down and feeds the roll paper continuously.

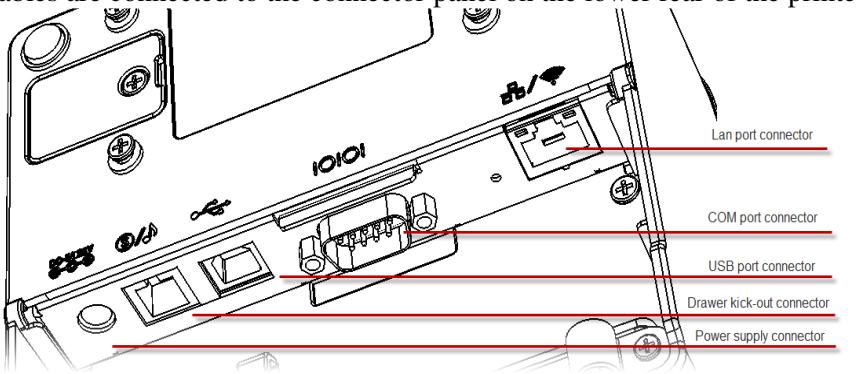
2-2-4 Power Switch

The power switch is located at the bottom right front of the printer.
Turn the printer on or off. The marks on the switch (0 = on / 1 = off) indicate the printer switch position.

CAUTION:
Before turning on the printer be sure to check that the AC adapter is connected to the power supply.

2-3 Connectors

All cables are connected to the connector panel on the lower rear of the printer.



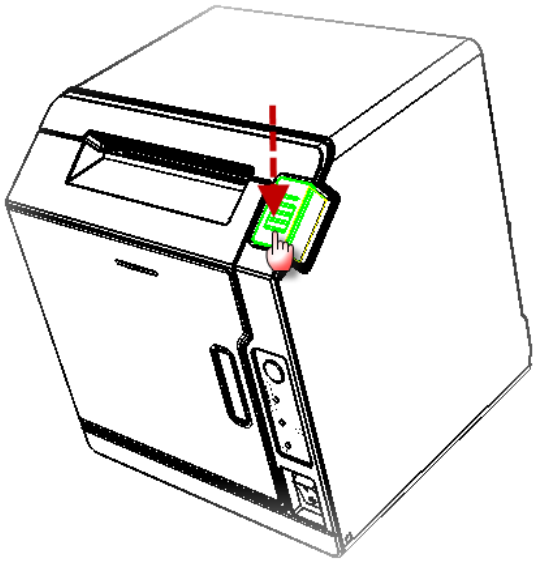
- Drawer kick-out connector for connecting the cash drawer
- Power supply connector for connecting the power supply unit
- Interface connector to connect the printer to the host computer interface (serial/USB/LAN)

2-4 Installing and Replacing Roll Paper

CAUTION:
Be sure to use roll paper that meets printer specifications. Do not use roll paper whose trailing end is glued to the roll paper core.

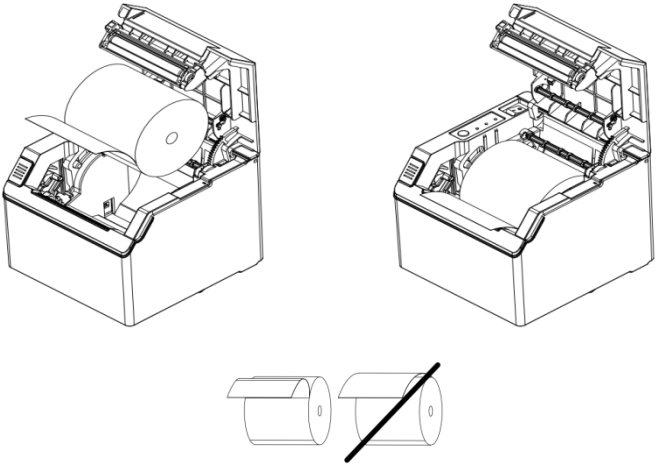
Installing Roll Paper

1. Make sure the host has not sent a printing command to the printer, and press the cover open button to open the printer cover.

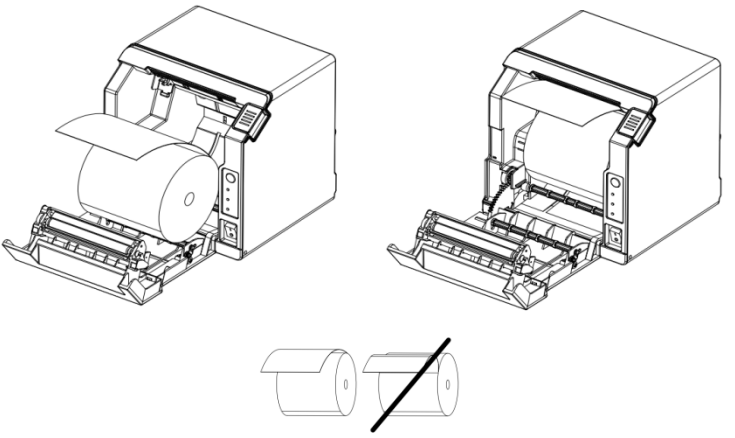


2. Load the roll paper.

- Horizontal position:



- Vertical position:



CAUTION:
When loading the roll paper, pay attention to the direction that the roll paper is fed out of the printer.

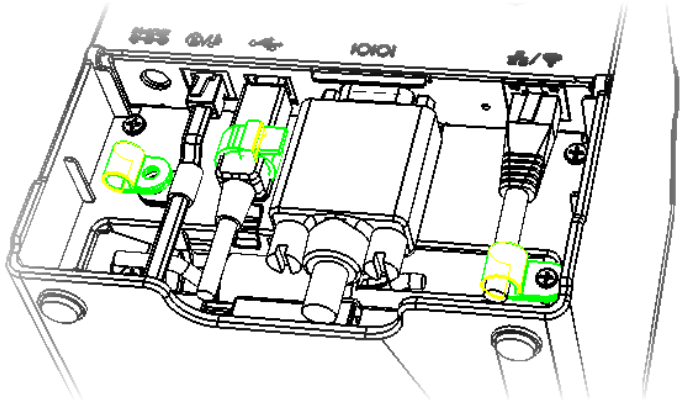
3. Pull out the roll paper toward you, and then close the printer cover.

2-5 Attaching and Removing the Connector Cover

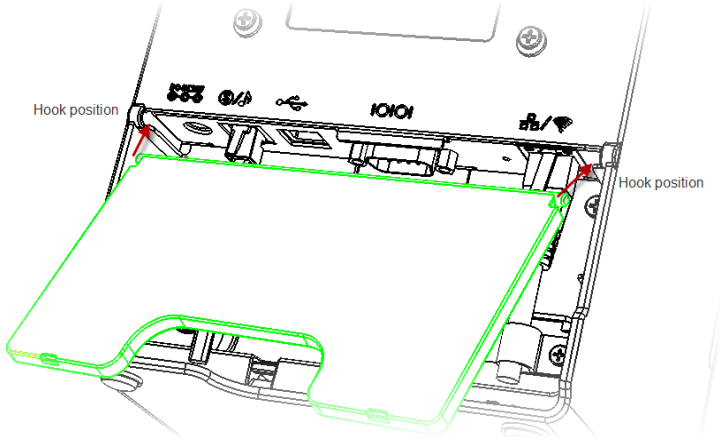
These instructions apply if a cable is packed with your printer to protect your cables.

To attach it, follow the steps below:

1. First, connect all the cables and use cable clip and screw to fix the cables, as shown in illustration



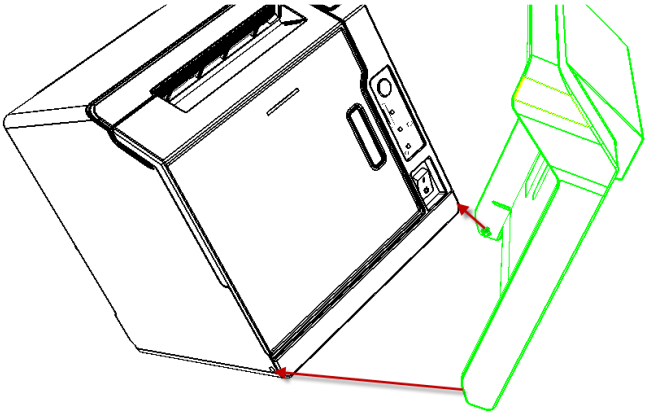
2. Position the two hooks on the connector cover so that they hook the printer case, as shown in illustration.



3. Push the connector cover down to click onto the printer case.

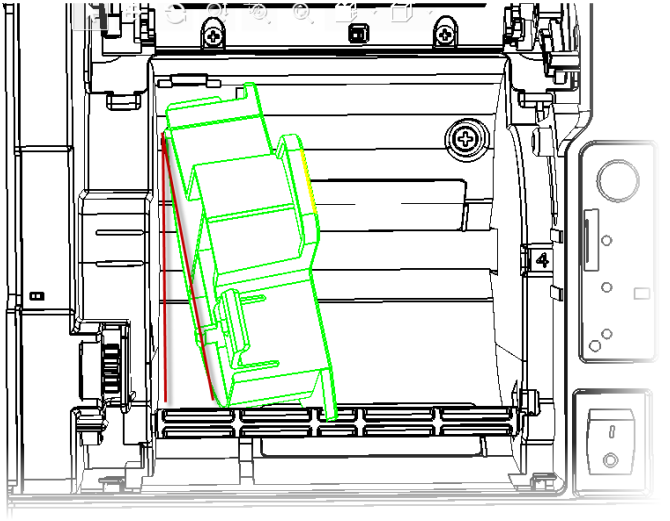
2-6 Attaching and Removing the Splash Proof Cover

1. Position the two hooks on the right and left side at the bottom, so that they could hook the printer case, as shown in illustration.

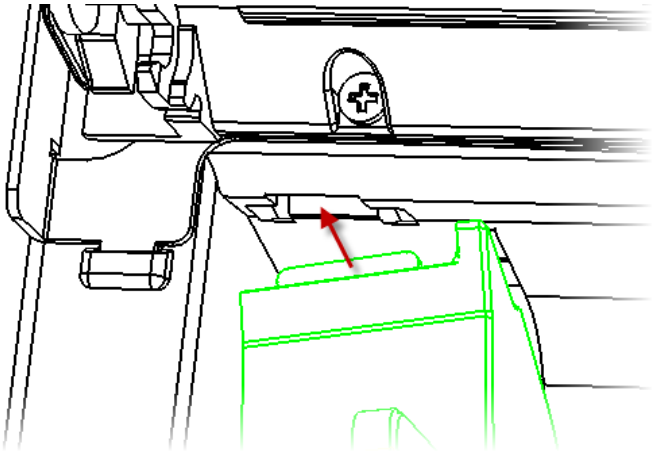


2-7 Attaching and Removing the Paper Guide

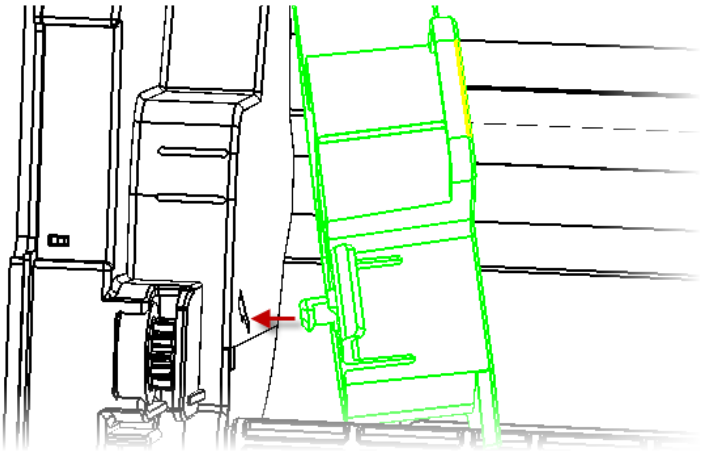
1. Open the front door and insert the paper guide as shown in illustration.



2. Position the top hook point of the paper guide into the corresponding hole of the printer, as shown in illustration.



3. Position the left hook point of the paper guide into the corresponding hole of the printer, as shown in illustration.



INSTALL AND SETUP

CHAPTER

3

This chapter comprises the information of install and setup for MP-1060.

Sections include:

- Install the printer
- Setting the DIP Switch
- DIP Switches functions
- Adjusting the Paper-near-end sensor.

3-1 Install the Printer

In addition to regular horizontal and vertical installation, the printer can be hung on a wall using the optional Wall hanging bracket Set.

3-1-1 Precautions for regular vertical and horizontal Installation

- Install the printer in a flat, horizontal or vertical position.
- Avoid locations susceptible to dust and other foreign matter.
- Be sure to avoid bumping so that the printer is not exposed to strong impact during operation.
- Avoid placing the printer on top of the power supply or other cables or other objects.

3-1-2 Precautions for Wall Installation

- Make the following settings on the printer when you hang it on a wall.
  1.Set the printer at vertical position
  2.Adjust of near-end detector
  3.Attach the connector cover
  4.Install the Hanging Bracket Set

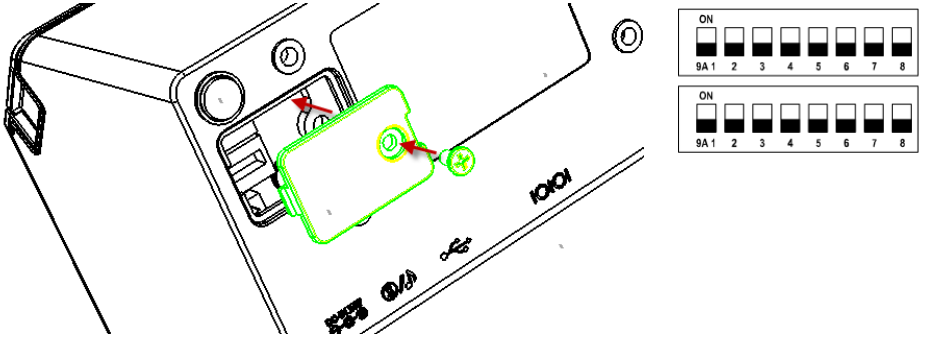
3-2 Setting the DIP Switches

DIP Switch Positions and Steps for Changing DIP Switch Settings

Follow the steps below to change the DIP switch settings

CAUTION:
Always change DIP switch settings only when the printer is turned off.
Change made with the power on have no effect and then on again.

1. Make sure the power supply for the printer is turned off.
2. Unscrew the screw to remove the DIP switch cover from the base of the printer.



3. Set the DIP switches as desired, using the tip of a tool, such as a small screwdriver.
4. Attach the DIP switch cover, and screw in place.

3-3 DIP Switches functions

3-3-1 RS-232C Serial Interface

DIP Switch 1

SW	Function	ON	OFF	Default
1	Auto Line Feed	Always disabled	Always enabled	OFF
2	Initial setting	Initial by SW	Initial by HW	OFF
3	Handshaking	XON/OFF	DTR/DSR	OFF
4	Word length	7 bits	8 bits	OFF
5	Parity check	Yes	No	OFF
6	Parity selection	EVEN	ODD	OFF
7	Baud rate selection	Refer to Table 1 - Baud Rate Selection		OFF
8				OFF

DIP Switch 2

SW	Function	ON	OFF	Default
1	Code Page Selection	Table 3 - Code Page Selection		OFF
2				OFF
3				OFF
4	Internal bell control	Enable	Disable	ON
5	Ethernet Interface	Enable	Disable	OFF
6	Near End Sensor Status	Enable	Disable	OFF
7	Select Print Density	Refer to Table 2 – Density Selection		OFF
8				OFF

3-3-2 USB/IEEE1284 Interface

DIP Switch 1

SW	Function	ON	OFF	Default
1	Auto Line Feed	Always disabled	Always enabled	OFF
2	Reserved	-	-	OFF
3	Reserved	-	-	OFF
4	Reserved	-	-	OFF
5	Reserved	-	-	OFF
6	Reserved	-	-	OFF
7	Reserved	-	-	OFF
8	Reserved	-	-	OFF

DIP Switch 2

SW	Function	ON	OFF	Default
1	Code Page Selection	Table 3 - Code Page Selection		OFF
2				OFF
3				OFF
4	Internal bell control	Enable	Disable	ON
5	Ethernet Interface	Enable	Disable	OFF
6	Near End Sensor Status	Enable	Disable	OFF
7	Select Print Density	Refer to Table 2 – Density Selection		OFF
8				OFF

3-3-3 Ethernet Interface

DIP Switch 1

SW	Function	ON	OFF	Default
1	Auto Line Feed	Always disabled	Always enabled	OFF
2	Reserved	-	-	OFF
3	Reserved	-	-	OFF
4	Reserved	-	-	OFF
5	Reserved	-	-	OFF
6	Reserved	-	-	OFF
7	Reserved	-	-	OFF
8	Reserved	-	-	OFF

DIP Switch 2

SW	Function	ON	OFF	Default
1	Code Page Selection	Table 3 - Code Page Selection		OFF
2				OFF
3				OFF
4	Internal bell control	Enable	Disable	ON
5	Ethernet Interface	Enable	Disable	ON
6	Near End Sensor Status	Enable	Disable	OFF
7	Select Print Density	Refer to Table 2 – Density Selection		OFF
8				OFF

Table 1 - Baud Rate Selection

Baud rate	**SW-7**	**SW-8**
115200	OFF	OFF
57600	OFF	ON
19200	ON	OFF
9600	ON	ON

Table 2 - Density Selection

Print Density	**SW2-7**	**SW2-8**	**Note**
1 (Light)	OFF	ON	60%
2	ON	OFF	80%
3	OFF	OFF	100%
4(Dark)	ON	ON	120%

Table 3 - Code Page Selection

Code Page	**SW1-1**	**SW1-2**	**SW1-3**
CP-437	OFF	OFF	OFF
Katakana character	OFF	OFF	ON
CP-850	OFF	ON	OFF
CP-852	OFF	ON	ON
CP-860	ON	OFF	OFF
CP-863	ON	OFF	ON
CP-865	ON	ON	OFF
WPC-1252	ON	ON	ON

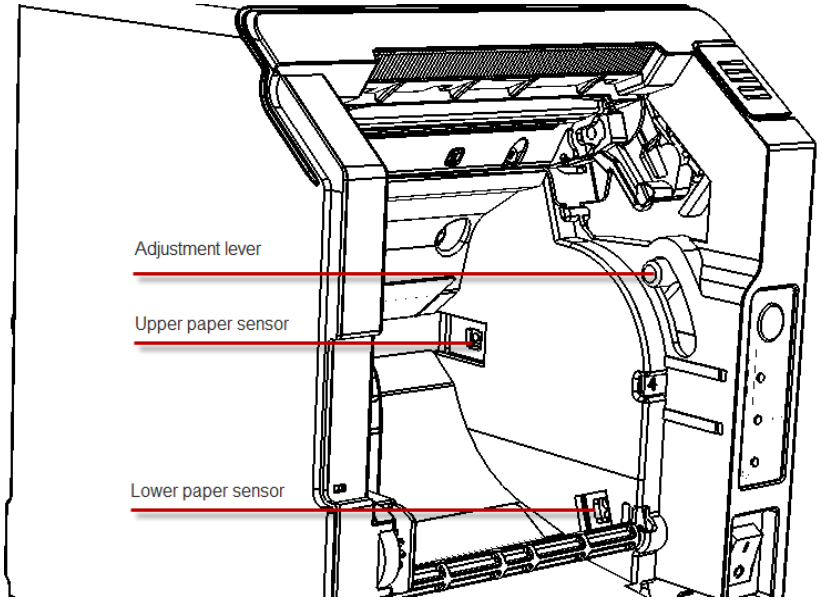
3-4 Adjusting the Paper-near-end sensor

Since roll paper cores vary slightly in shape, depending on paper roll design and manufacturing tolerances, it impossible to detect the remaining paper exactly.

Use roll paper with a core inner diameter of 12 mm and outer diameter of 18 mm, so the paper detector can detect the remaining paper as accurately as possible.

Follow the procedure below to adjust the roll paper detector position.

1. Open the roll paper cover, and remove the roll paper.
2. Bend the adjustment lever to reposition paper sensor. Adjustment positions are as follows:



3. After adjustment, load the roll paper.
4. Close the roll paper cover.

Adjustment position/Remaining amount of roll paper (outer diameter: mm)

Lv	3" Vertical	3" Horizontal	2" Vertical	2" Horizontal
4	7.65mm~7.68mm	7.39mm~7.41mm	7.77mm~7.80mm	7.35mm~7.47mm
3	7.05mm~7.08mm	6.86mm~6.90mm	7.49mm~7.57mm	6.93mm~7.08mm
2	6.92mm~6.97mm	6.13mm~6.15mm	6.99mm~7.00mm	6.12mm~6.18mm
1	6.36mm~6.45mm	6.02mm~6.06mm	6.39mm~6.46mm	5.75mm~5.99mm

HEXADECIMAL DUMPING & SELF-TESTING

CHAPTER

4

This chapter shows hexadecimal dumping and self-testing of MP-1060.

Sections include:

- Hexadecimal dumping
- Self-Testing

4-1. HEXADECIMAL DUMPING

Explanation: Allow users to conduct Software problem finding through observing Data in Hex format feed to the printer.

Turn on:
1. Open “Printer Cover” when the computer is off
2. Click on the “Feed” to open “ Power switch”
3. Close the “Cover” to enter Hex dump mode
4. Execute any program to send data to printer. The printer will then print out the data in two rows and hexadecimal format.

Turn off:
1. After the printing is complete, turn off the printer. The printer will resume normal printing mode after restart.

4-2. THE SELF-TESTING

Explanation: Printing the FW Version and DIP Switch

How to Print:
1. Click on the “Feed” to open “ Power switch” when the computer is off
2. Data will be printed and paused when this information shows up.
3. Press the “Feed” button again, the printer will conduct printing test
4. After printing is complete, trim the paper and end the printing process.

SOFTWARE CONFIGURATION

CHAPTER

5

Helpful information that describes the settings for the display and you'll know how to install MP-1060 Utility step by step in this chapter

.

Sections include:

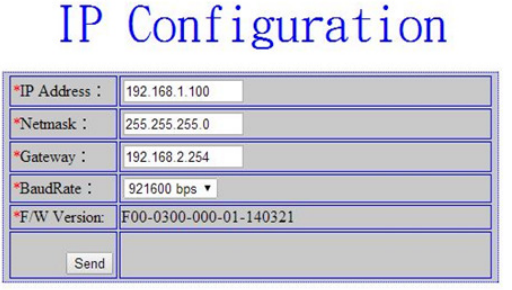
- Ethernet Interface Card Setting
- Printer Driver Setting

5-1 ETHERNET INTERFACE CARD SETTING

(1) Connect LAN cable to Ethernet interface card and turn on the Power.
(2) Open your Browser and Input default IP : 192.168.1.100

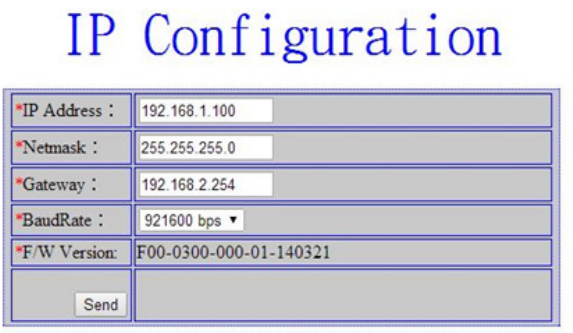
If you could not open the web page, please reset the interface card.
(IP return to the default value)

Default Setting:
IP Address: 192.168.1.100
Netmask: 255.255.255.0
Gateway : 192.168.2.254
BaudRate : 115200 bps
Local port : 9100



(3) Enter your settings (IP Address, Netmask, Gateway, BaudRate)

※BaudRate setting value must be 921600 bps

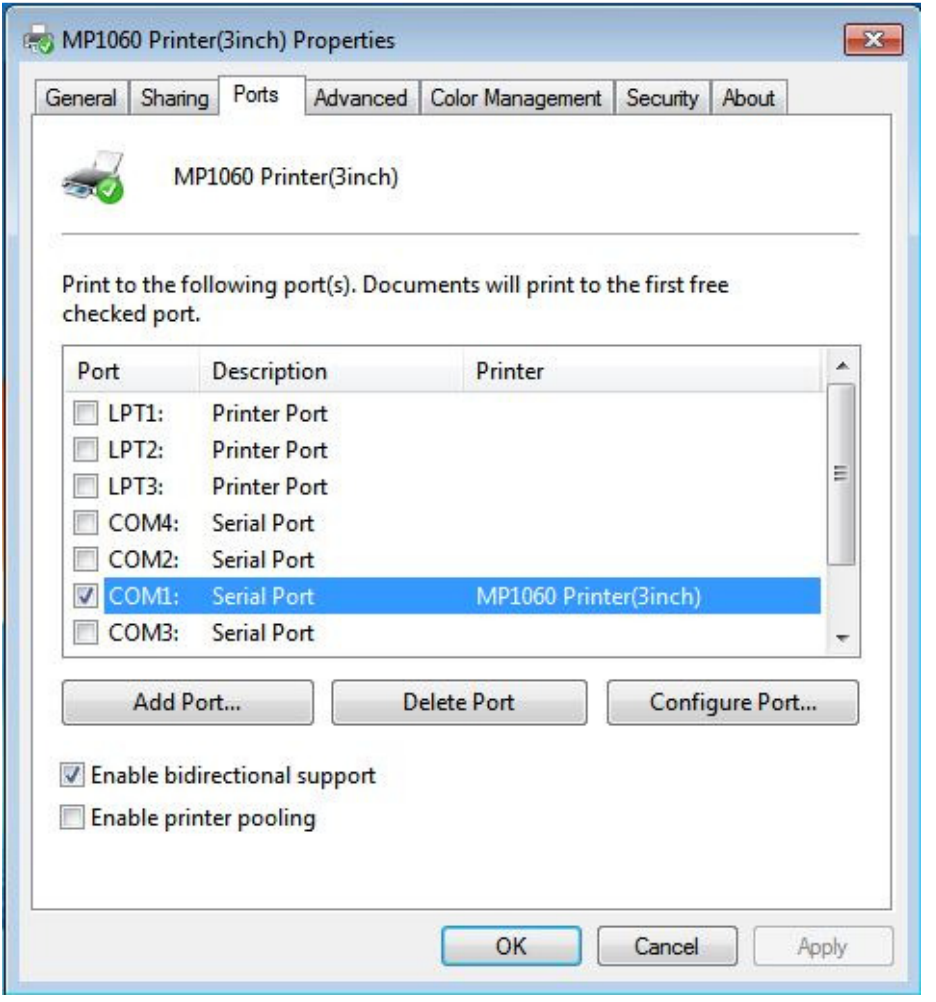


(4) Press the "Send" button, wait for the browser connection error.
(5) Input new IP in the browser

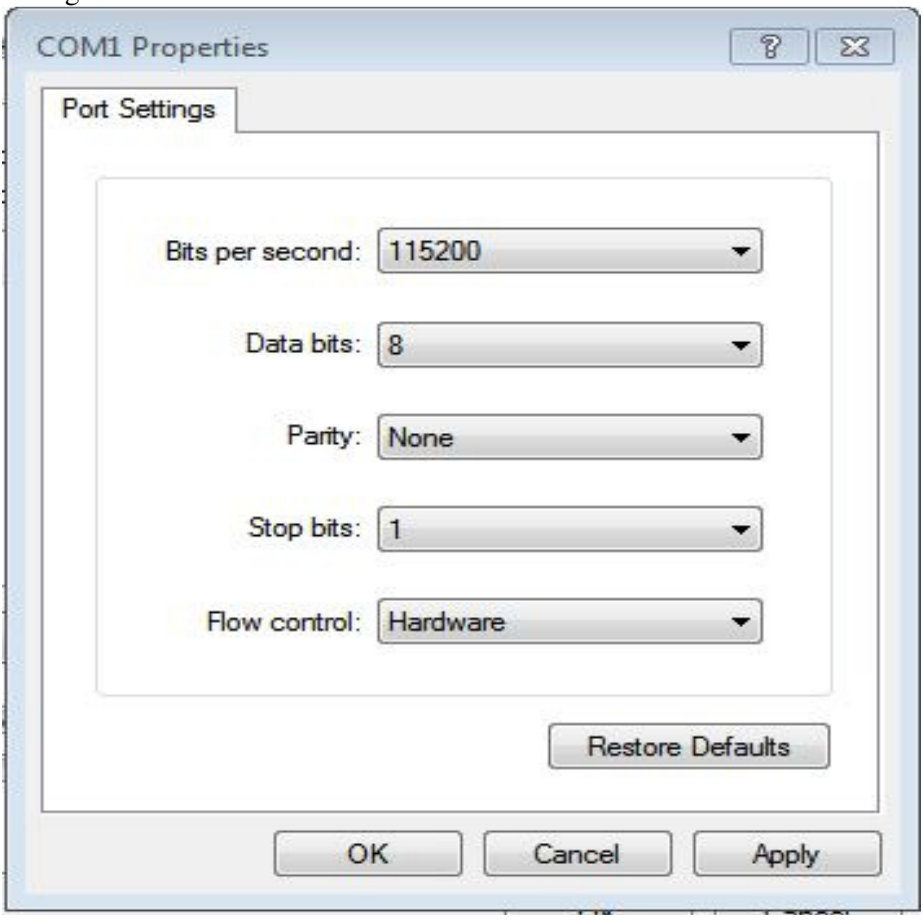
If you could open the web page, this configuration was successful.
If you could not open the web page, please go back to step (2).

5-2 PRINTER DRIVER SETTING

(1) Printer Driver Installation
(2) Setting Ports
    (a) Serial Port & USB Interface
        Select the Serial Port: COM1

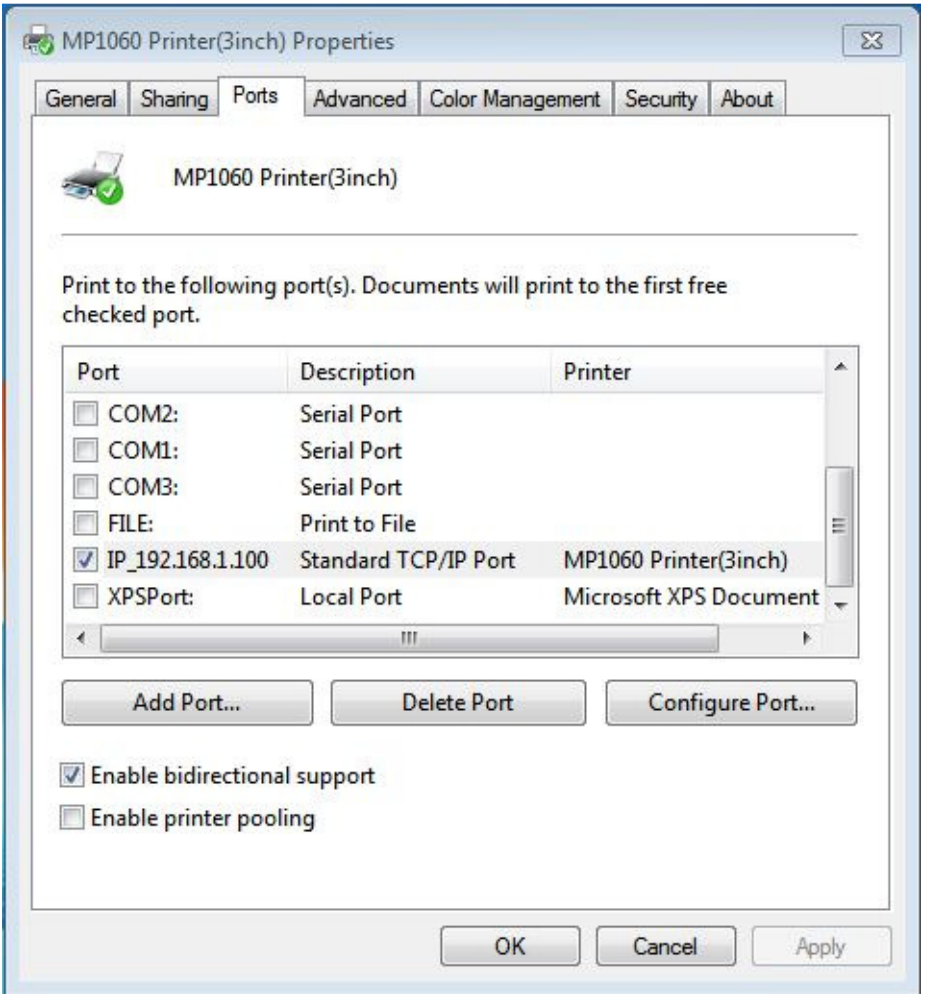


Configure Port

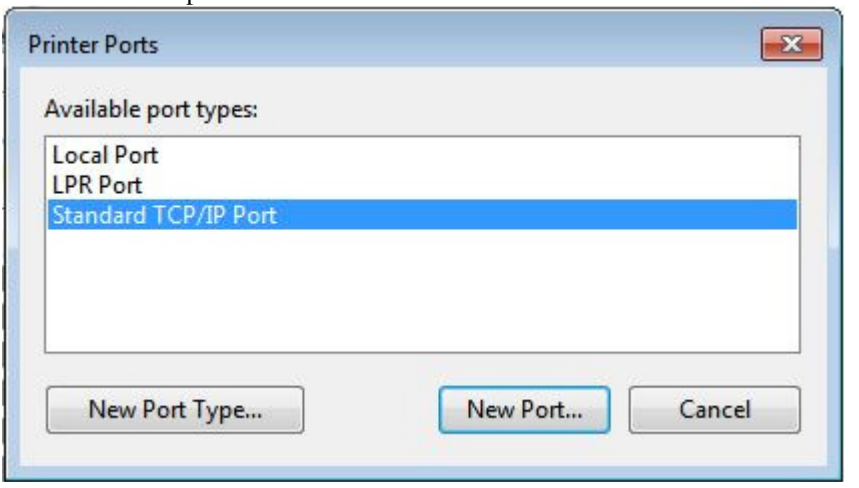


(b) Ethernet Interface

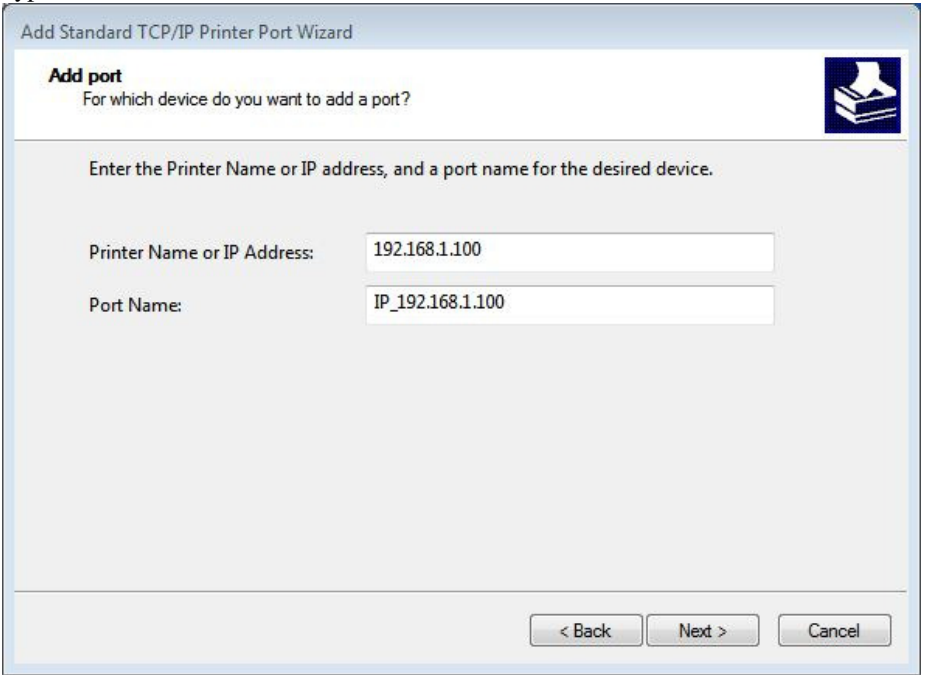
Add Port


MP1060 Printer(3inch) Properties
General
Sharing
Ports
Advanced
Color Management
Security
About
MP1060 Printer(3inch)
Print to the following port(s). Documents will print to the first free checked port.
Port
Description
Printer
COM2: Serial Port
COM1: Serial Port
COM3: Serial Port
FILE: Print to File
IP_192.168.1.100 Standard TCP/IP Port MP1060 Printer(3inch)
XPSPort: Local Port Microsoft XPS Document
Add Port...
Delete Port
Configure Port...
Enable bidirectional support
Enable printer pooling
OK
Cancel
Apply

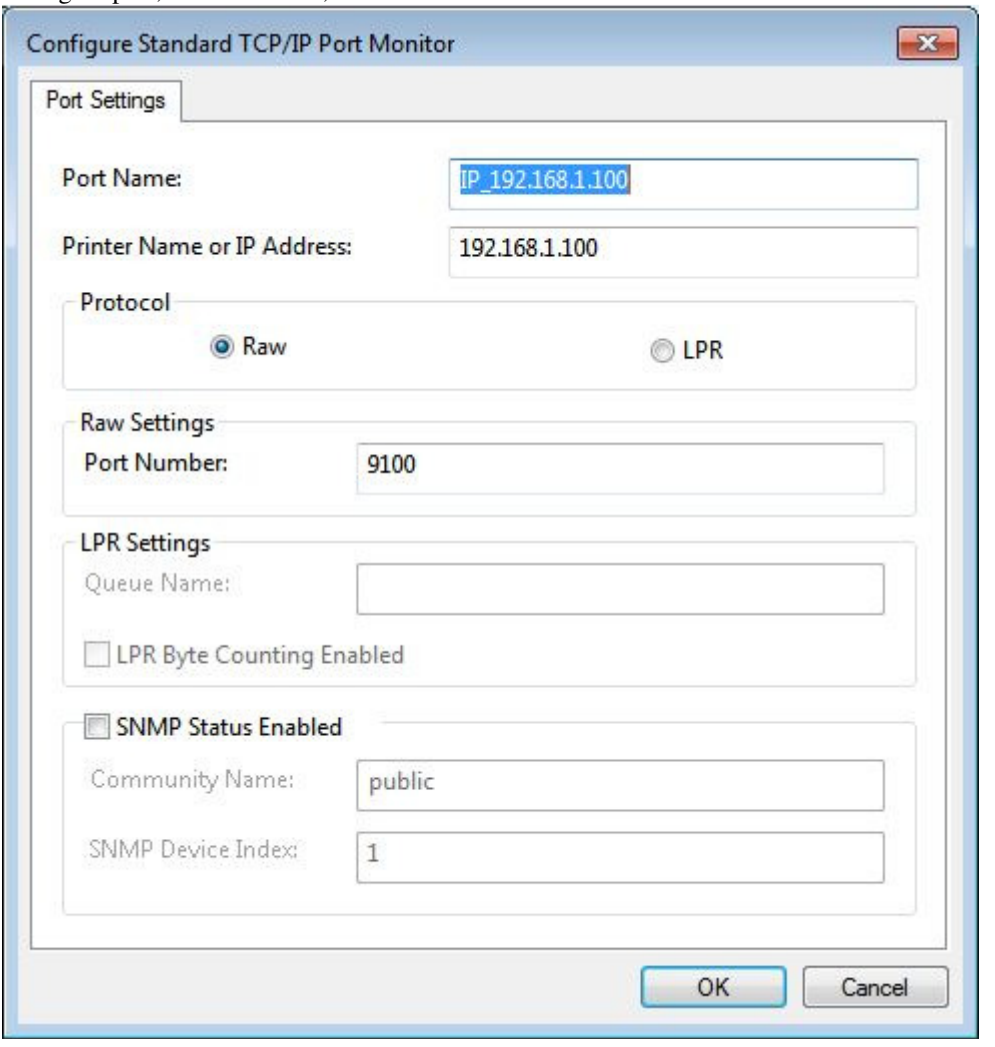
Standard TCP/IP port



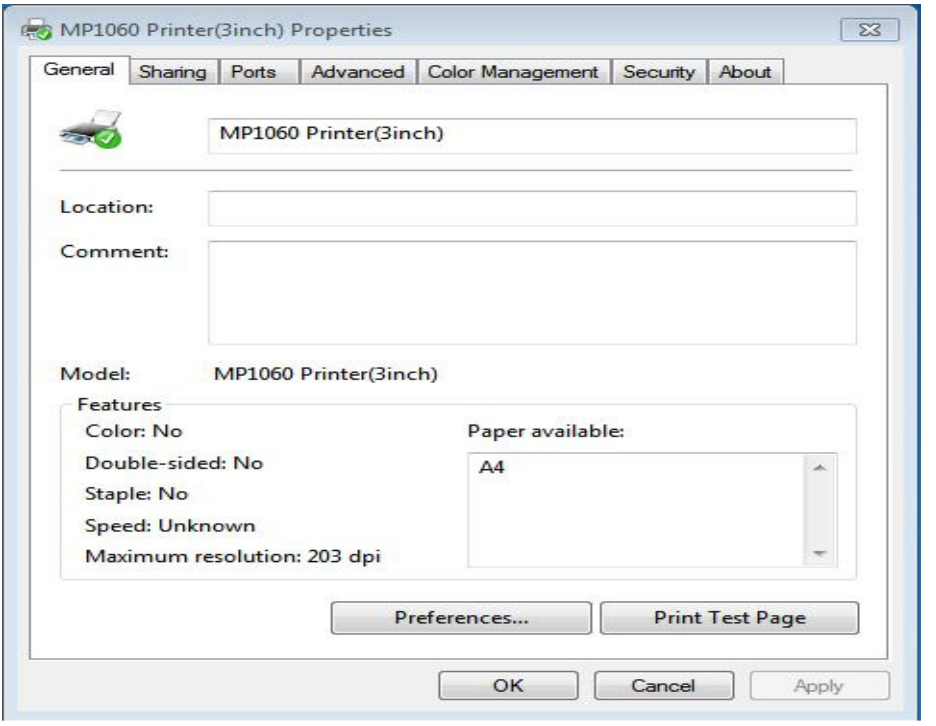
Type in IP address: 192.168.1.100 and Port Name: IP_192.168.1.100



Configure port, Protocol: Raw, Port Number: 9100



(3) Print Test Page



COMMAND LIST

CHAPTER

6

This chapter shows tables of character codes.

Note: All **t**he tables only show the character configurations. They do not show the actual print pattern.

Sections include:

- Standard Command List
- Two-Dimensional Bar Code Command Details
- Kanji Control Command Details
- Standard Command Details

6-1 Standard Commands

Control codes	Hexadecimal codes	Function	Standard mode	Page mode
<HT>	09	Horizontal tab	○	○
<LF>	0A	Print and line feed	○	○
<FF>	0C	Print and recover to standard mode (in page mode)	Ignored	○
<CR>	0D	Print and carriage return	○	○
<CAN>	18	Cancel print data in page mode	Ignored	○
<DLE EOT>	10 04	Real-time status transmission	○	○
<DLE ENQ>	10 05	Real-time request to printer	○	○
<DLE DC4>	10 14	Real-time output of specified pulse	○	○
<ESC FF>	1B 0C	Print data in page mode	Ignored	○
<ESC SP>	1B 20	Set right-side character spacing	○	○
<ESC !>	1B 21	Select print mode(s)	○	○
<ESC $>	1B 24	Set absolute print position.	○	○
<ESC *>	1B 2A	Select bit image mode	○	○
<ESC ->	1B 2D	Turn underline mode on/off.	○	○
<ESC 2>	1B 32	Select default line spacing	○	○
<ESC 3>	1B 33	Set line spacing	○	○
<ESC =>	1B 3D	Select peripheral device	○	○
<ESC @>	1B 40	Initialize printer	○	○
<ESC D>	1B 44	Set horizontal tab position	○	○
<ESC E>	1B 45	Turn emphasized mode on/off	○	○
<ESC G>	1B 47	Turn double-strike mode on/off	○	○
<ESC J>	1B 4A	Print and feed paper	○	○
<ESC L>	1B 4C	Select page mode	◎	Ignored
<ESC M >	1B 4D	Select character font	○	○
<ESC R>	1B 52	Select an international character set	○	○
<ESC S>	1B 53	Select standard mode	Ignored	○
<ESC T>	1B 54	Select print direction in page mode	▲	○
<ESC V>	1B 56	Turn 90 degree clockwise rotation mode on/off	○	▲
<ESC W>	1B 57	Set printing area in page mode	▲	○
<ESC \>	1B 5C	Set relative print position	○	○
<ESC a>	1B 61	Select justification	◎	▲
<ESC c 3>	1B 63 33	Select paper sensor(s) to output paper-end signals	○	○

<ESC c 4>	1B 63 34	Select paper sensor(s) to stop printing	○	○
<ESC c 5>	1B 63 35	Enable/disable panel buttons	○	○
<ESC d>	1B 64	Print and feed n lines	○	○
<ESC i>	1B 69	Full cut	○	Disabled
<ESC m>	1B 6D	Partial cut	○	Disabled
<ESC p>	1B 70	General pulse	○	○
<ESC t>	1B 74	Select character code table	○	○
<ESC {>	1B 7B	Turn upside-down printing mode on/off	◎	▲
<FS p>	1C 70	Print NV bit image	○	Disabled
<FS q>	1C 71	Define NV bit image	◎	Disabled
<GS !>	1D 21	Select character size		○
<GS $>	1D 24	Set absolute vertical print position in page mode	Ignored	○
<GS *>	1D 2A	Define download bit images	○	○
<GS (A>	1D 28 41	Execute test print	○	Disabled
<GS (K>	1D 28 4B	Set print density	○	Disabled
<GS />	1D 2F	Print download bit image	●	○
<GS B>	1D 42	Turn white/black reverse printing mode on/off	○	○
<GS H>	1D 48	Select printing position of HRI characters	○	○
<GS I>	1D 49	Transmit printer ID	○	Disabled
<GS L>	1D 4C	Set left margin	◎	Disabled
<GS P>	1D 50	Set basic calculated pitch	○	○
<GS V>	1D 56	Cut paper	◎	○
<GS W>	1D 57	Set printing area width	◎	▲
<GS \>	1D 5C	Set relative vertical print position in page mode	Ignored	
<GS a>	1D 61	Enable/disable Automatic Status Back (ASB)	○	○
<GS f>	1D 66	Select font for HRI characters	○	○
<GS h>	1D 68	Set bar code height	○	○
<GS k>	1D 6B	Print bar code	●	○
<GS r>	1D 72	Transmit status	○	○
<GS v 0>	1D 76 30	Print raster bit image	●	Disabled
<GS w>	1D 77	Set bar code width	○	○

6-2 Two-dimensional Bar Code Commands

Control codes	Hexadecimal codes	Function	Standard mode	Page mode
<DC2 ;>	12 3B	Specifies a module size of QR Code and Data Matrix	○	○
<GS p 1>	1D 70 01	Prints QRCode data based on the specified contents	○	○

6-3 Kanji Control Commands

(When the Japanese, Simplified Chinese, Traditional Chinese, or Korean model is used)

Control codes	Hexadecimal codes	Function	Standard mode	Page mode
<FS !>	1C 21	Set print mode(s) for Kanji characters	○	○
<FS &>	1C 26	Select Kanji character mode	○	○
<FS ->	1C 2D	Turn underline mode on/off for Kanji characters	○	○
<FS .>	1C 2E	Cancel Kanji character mode	○	○
<FS S>	1C 53	Set Kanji character spacing	○	○
<FS W>	1C 57	Turn quadruple-size mode on/off for Kanji characters	○	○

Command classification
Executing : Printer executes the command, which does not then affect the following data.
Setting : Printer uses flags to make settings, and those settings affect the following data.

○: Enabled.
◎: Enabled only when the command is set at the beginning of a line.
●: Enabled only when data is not present in the printer buffer.
▲: Only value setting is possible.
Disabled: Parameters are processed as printable data.
Ignored: All command codes including parameters are ignored and nothing is executed.

6.4 STANDARD COMMAND DETAILS

HT

[Name]	Horizontal tab
[Format]	ASCII HT Hex. 09 Decimal 9
[Range]	N/A
[Description]	Moves print position to next horizontal tab position. ● This command is ignored if the next tab is not set. ● If the next tab position exceeds the print region, the print position is moved to [print region + 1]. ● The horizontal tab position is set by ESC D (Set/cancel horizontal tab position). ● When the print position is at the [print region + 1] position and this command is received, the current line buffer full is printed and a horizontal tab is executed from the top of the next line. ● The initial value of the horizontal tab position is every 8 characters of Font A (the 9th, 17th, 25th positions, etc.)

LF

[Name]	Print and line feed
[Format]	ASCII LF Hex. 0A Decimal 10
[Range]	N/A
[Description]	Prints the data in the print buffer and performs a line feed based on the set line feed amount. ● After execution, makes the top of the line the next print starting position.

FF

[Name]	Print and recover to standard mode (in page mode)
[Format]	ASCII FF Hex. 0C Decimal 12
[Range]	N/A
[Description]	Prints all buffered data to the print region collectively, then recovers to the standard mode. ● All buffer data is deleted after printing. ● The print area set by ESC W (Set print region in page mode) is reset to the default setting. ● No paper cut is executed. ● Sets the print position to the beginning of the next line after execution. ● This command is enabled only in page mode.

CR

[Name]	Print and carriage return
[Format]	ASCII CR Hex. 0D Decimal 13
[Range]	N/A
[Description]	When an automatic line feed is enabled, this command functions in the same way as LF(print and line feed). When the automatic line feed is disabled, this command is ignored. ● This command is ignored with serial interface models. ● Sets the print position to the beginning of the next line after execution.

CAN

[Name]	Cancel print data in page mode
[Format]	ASCII CAN Hex. 18 Decimal 24
[Range]	N/A
[Description	Deletes all print data in the currently set print region in page mode. ● This command is enabled only in page mode. ● Portions included in the currently set print region are also deleted, even if previously set print region data.

DLE EOT n

[Name]	Real-time status transmission.
[Format]	ASCII OLE EOT n

	Hex. 10 04 n Decimal 16 4 n
[Range]	$1 \le n \le 4$
[Description]	Transmits the selected printer status specified by n in real time, according to the following parameters: n = 1 : Transmit printer status. n = 2 : Transmit off-line status. n = 3 : Transmit error status. n = 4 : Transmit paper roll sensor status.

n = 1 : Printer status.

Bit	On / Off	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off.
1	On	02	2	Not used. Fixed to On.
2	Off	00	0	Drawer open/close signal is LOW.
	On	04	4	Drawer open/close signal is HIGH.
3	Off	00	0	On-line.
	On	08	8	Off-line.
4	On	10	16	Not used. Fixed to On.
5	Off	00	0	Not used. Fixed to Off.
6	Off	00	0	Not used. Fixed to Off.
7	Off	00	0	Not used. Fixed to Off.

n = 2 : Off-line status.

Bit	On / Off	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off.
1	On	02	2	Not used. Fixed to On.
2	Off	00	0	Cover is closed.
	On	04	4	Cover is open.
3	Off	00	0	Not used. Fixed to Off.
4	On	10	16	Not used. Fixed to On.
5	Off	00	0	No paper-end stop.
	On	20	32	Printing stops due to paper end.
6	Off	00	0	No error.
	On	40	64	Error occurs.
7	Off	00	0	Not used. Fixed to Off.

n = 3 : Error status

Bit	On / Off	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off.
1	On	02	2	Not used. Fixed to On.
2	Off	00	0	Not used. Fixed to Off.
3	Off	00	0	Not used. Fixed to Off.

4	On	10	16	Not used. Fixed to On.
5	Off	00	0	Not used. Fixed to Off.
6	Off	00	0	Not used. Fixed to Off.
7	Off	00	0	Not used. Fixed to Off.

n = 4 : Continuous paper sensor status.

Bit	On / Off	Hex	Decimal	Function
0	Off	00	0	Not used. Fixed to Off.
1	Off	02	2	Not used. Fixed to On.
2	Off	00	0	No paper-near-end stop.
	On	04	4	Printing stops due to paper near end.
3	Off	00	0	No paper-near-end stop.
	On	08	8	Printing stops due to paper near end.
4	On	10	16	Not used. Fixed to On.
5	Off	00	0	No paper-end stop.
	On	20	32	Printing stops due to paper end.
6	Off	00	0	No paper-end stop.
	On	40	64	Printing stops due to paper end.
7	Off	00	0	Not used. Fixed to Off.

DLE ENQ n

[Name]	Real-time request to printer.
[Format]	ASCII DLE ENQ n Hex. 10 05 n Decimal 16 5 n
[Range]	$1 \leq n \leq 2$
[Description]	Responds to requests n specifications from the host in real-time. n specifications are below. n = 1: Recover from the error and start printing from the line where the error occurred. n = 2: Recover from error after clearing the reception buffer and print buffer. This command is enabled even when the printer specification is disabled by ESC = (select Peripheral devices).

DLE DC4 n m t

[Name]	Real-time output of specified pulse.
[Format]	ASCII DLE DC4 n m t Hex. 10 14 n m t Decimal 16 20 n m t
[Range]	n = 1 m = 0,1 $1 \leq t \leq 8$
[Description]	This outputs a signal specified by t to the connector pin specified by m. m = 0: #2 Pin of the drawer kick connector m = 1: #5 Pin of the drawer kick connector On time is set to t x 100 msec; Off time is set to t x 100 msec.

ESC FF

[Name]	Print data in page mode.
[Format]	ASCII ESC FF Hex. 1B 0C Decimal 27 12
[Range]	N/A
[Description]	Prints all buffered data in the print area collectively in page mode. ● This command is enabled only in page mode. ● Holds the following information after printing. a. Expanded data b. Character print direction selection in page mode (ESC T) c. Set print region (ESC W) in the page mode. d. Character expansion position

ESC SP n

[Name]	Set right-side character spacing.
[Format]	ASCII ESC SP n Hex. 1B 20 n Decimal 27 32 n
[Range]	$0 \leq n \leq 255$ Initial Value n = 0
[Description]	This command sets the size of space to right of character. Right space = n × [horizontal motion units].

ESC ! n

[Name]	Select print mode(s).
[Format]	ASCII ESC ! n Hex. 1B 21 n Decimal 27 33 n
[Range]	$0 \le n \le 255$ Initial Value n = 0
[Description]	This command selects print mode(s) with bits having following meanings.

Bit	On / Off	Hex	Decimal	Function
0	Off	00	0	Character font A selected.
	On	01	1	Character font B selected.
1	Off	00	0	Not used. Fixed to Off.
2	Off	00	0	Not used. Fixed to Off.
3	Off	00	0	Emphasized mode not selected.
	On	08	8	Emphasized mode selected.
4	Off	00	0	Double-height mode not selected
	On	10	16	Double-height mode selected
5	Off	00	0	Double-width mode not selected.
	On	20	32	Double-width mode selected.
6	Off	00	0	Not used. Fixed to Off.
7	Off	00	0	Underline mode not selected.
	On	80	128	Underline mode selected.

ESC $ nL nH

[Name]	Set absolute print position.
[Format]	ASCII ESC $ nL nH Hex. 1B 24 nL nH Decimal 27 36 nL nH
[Range]	0 ≤ (nL + nH x 256) ≤ 65535 (0 ≤ nH ≤ 255, 0 ≤ nL ≤ 255)
[Description]	This command specifies the next print starting position in reference to the left edge of the print area. The printing start position is calculated using (nL + nH x 256) x (vertical or horizontal motion units). Specifications exceeding the print range are ignored.

ESC * m nL nH d1…dk

[Name]	Select bit image mode
[Format]	ASCII ESC * m nL nH d1...dk Hex. 1B 2A m nL nH d1...dk Decimal 27 42 m nL nH d1...dk
[Range]	m = 0,1,32,33 0 ≤ nL ≤ 255 0 ≤ nH ≤ 3 0 ≤ d ≤ 255
[Description]	Selects a bit-image mode in mode *m* for the number of dots specified by *nL* and *nH*. m = 1,33 : (nL+nH×256)<576 (3 inch);(nL+nH×256)<432 (2 inch). m = 0,32 : (nL+nH×256)<288 (3 inch);(nL+nH×256)<216 (2 inch).

m	Mode	Number of Vert. Dir. Dots	Density of Vert. Dir. Dots	Density of Hor. Dir. Dots	Data Count (k)
0	8 dot single density	8	67 DPI	101 DPI	nL+nH×256
1	8 dot double density	8	67 DPI	203 DPI	nL+nH×256
32	24 dot single density	24	203 DPI	101 DPI	(nL+nH×256) ×3
33	24 dot double density	24	203 DPI	203 DPI	(nL+nH×256) ×3

ESC - n

[Name]	Turn underline mode on/off.
[Format]	ASCII ESC - n

	Hex. 1B 2D n Decimal 27 45 n
[Range]	0 ≤ n ≤ 2 Initial Value n = 0
[Description]	This command enables the print data following it to be printer out underlined. The underline mode varied depending on the following values of n:

n	Function
0	Turns off underline mode
1	Turns on underline mode, set at 1-dot thick
2	Turns on underline mode, set at 2-dot thick

ESC 2

[Name]	Select default line spacing.
[Format]	ASCII ESC 2 Hex. 1B 32 Decimal 27 50
[Range]	N/A
[Description]	This command sets the default line spacing The default line spacing is approximately 4.25 mm, which is equivalent to 34 dots.

ESC 3 n

[Name]	Set line spacing.
[Format]	ASCII ESC 3 n Hex. 1B 33 n Decimal 27 51 n
[Range]	0 ≤ n ≤ 255 Initial Value n = 34
[Description]	This command sets the line spacing using a following rule. Line spacing = n x (vertical or horizontal motion units)

ESC = n

[Name]	Select peripheral device.
[Format]	ASCII ESC = n Hex. 1B 3D n Decimal 27 61 n
[Range]	0 ≤ n ≤ 255 Initial Value n = 1
[Description]	Selects the peripheral device for which the data is effective from the host computer.

Bit	Function	"0"	"1"
7	Undefined		
6	Undefined		
5	Undefined		
4	Undefined		
3	Undefined		
2	Undefined		
1	Undefined		
0	Printer	Invalid	Valid

ESC @

[Name]	Initialize printer.
[Format]	ASCII ESC @ Hex. 1B 40 Decimal 27 64
[Range]	N/A
[Description]	Clears data from the print buffer and sets the printer to its default settings.

ESC D n1…nk NUL

[Name]	Set horizontal tab position
[Format]	ASCII ESC D n1...nk NUL Hex. 1B 44 n1...nk NUL Decimal 27 68 n1...nk NUL
[Range]	$1 \le n \le 255$ $0 \le k \le 32$
[Description]	Sets horizontal tab position ● n specifies the column number for setting a horizontal tab position from the left margin or the beginning of the line. ● k indicates the number of horizontal tab positions to be set.

ESC E n

[Name]	Turn emphasized mode on / off.
[Format]	ASCII ESC E n Hex. 1B 45 n Decimal 27 69 n
[Range]	$0 \le n \le 255$ Initial Value n = 0
[Description]	This command turns emphasized mode on or off by toggling the least significant bit of n like following. When the LSB of n is 0, emphasized mode is turned off. When the LSB of n is 1, emphasized mode is turned on.

ESC G n

[Name]	Turn double-strike mode on/off.
[Format]	ASCII ESC G n Hex. 1B 47 n Decimal 27 71 n
[Range]	$0 \le n \le 255$ Initial Value n = 0
[Description]	Specifies or cancels double printing. Cancels double printing when n = <*******0>B. Specifies double printing when n = <*******1>B. ● n is effective only when it is the lowest bit. ● This printer is not capable of double printing, so the print is the same as when using emphasized printing. ● This command is enabled for ANK characters

ESC J n

[Name]	Print and feed paper.
[Format]	ASCII ESC J n

	Hex. 1B 4A n Decimal 27 74 n
[Range]	$0 \leq n \leq 255$
[Description]	This command prints the data in the print buffer and feeds the paper [n X vertical motion unit]. ● Sets the print position to the beginning of the next line after printing. ● In standard mode, the printer uses the vertical motion unit (*y*). ● In page mode, this command functions as follows, depending on the starting position of the printable area: (1)When the starting position is set to the upper left or lower right of the printable area using **ESC T**, the vertical motion unit (*y*) is used. (2)When the starting position is set to the upper right or lower left of the print able area using **ESC T**, the horizontal motion unit (*x*) is used. ● The maximum line spacing is 150mm {5.9 inches}. When the setting value exceeds the maximum, it is converted to the maximum automatically.

ESC L

[Name]	Select page mode
[Format]	ASCII ESC L Hex. 1B 4C Decimal 27 76
[Range]	N/A
[Description]	● Enabled only when input with the top of line. ● Invalid when input by page mode. ● Returns to standard mode after the following commands are issued. a. FF (Print and recover to page mode) b. ESC S (Select standard mode) ● Character expansion position has the starting point specified by ESC T (Character print direction selection in page mode) in the printing region designated by the ESC W (Set print region in the page mode) command. ● This command switches the settings for the following commands the values of which can be set independently in standard mode and page mode to those for page mode a. Set space amount: ESC SP, FS S b. Set line feed amount: ESC 2, ESC 3 ● The following commands are enabled only when in page mode. a. ESC V :Specify/cancel character 90 degree clockwise rotation b. ESC a :Position alignment c. ESC { :Specify/cancel upside-down printing d. GS W :Set print region width ● The following command is ignored in page mode. a. GS (A :Test print ● The following commands are invalid in page mode. a. FS p :Print NV bit image b. FS q :Define NV bit image c. GS v 0 :Print raster bit images d. GS L :Set left margin ● Recover to standard mode using ESC @ (initialize printer).

ESC M n

[Name]	Select character font.
[Format]	ASCII ESC M n Hex. 1B 4D n Decimal 27 77 n
[Range]	n = 0, 1 Initial Value n = 0
[Description]	This command selects ANK character fonts using n as following.

n	Function
0	Character font A selected
1	Character font B selected

ESC R n

[Name]	Select an international character set.
[Format]	ASCII ESC R n Hex. 1B 52 n Decimal 27 82 n
[Range]	$0 \leq n \leq 16$ Initial Value n = 0
[Description]	This command specifies international characters according to n values.

n	Character set
0	USA
1	France
2	Germany
3	UK
4	Denmark I
5	Sweden
6	Italy
7	Spain
8	Japan
9	Norway
10	Denmark II
11	Spain II
12	Latin America
13	Korea
14	Russia
15	Slavonic
16	User Define

ESC S

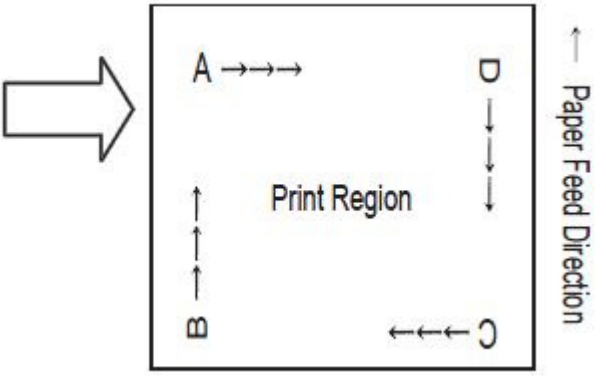
[Name]	Select standard mode
[Format]	ASCII ESC S

	Hex. 1B 53 Decimal 27 83
[Range]	N/A
[Description]	● Valid only when input by page mode. ● All buffer data in page mode is deleted. ● Sets the print position to the beginning of the next line after execution. ● The print area set by ESC W (Set print region in page mode) is reset to the default setting. ● This command switches the settings for the following commands the values of which can be set independently in standard mode and page mode to those for standard mode a. ESC SP :Set character right space amount b. FS S :Set Chinese character space amount c. ESC 2 :Set default line spacing d. ESC 3 :Set line feed amount ● The following commands are effective only when in standard mode. a. ESC W :Set print region in page mode b. ESC T :Select character print direction in page mode ● The following commands are ignored in standard mode. a. GS $:Specify absolute position for character vertical direction in page mode b. GS \: :Specify relative position for character vertical direction in page mode ● Standard mode is selected when the power is turned on; the printer is reset or initialized (ESC @).

ESC T n

[Name]	Select print direction in page mode.
[Format]	ASCII ESC T n Hex. 1B 54 n Decimal 27 84 n
[Range]	$0 \le n \le 3, 48 \le n \le 51$ Initial Value n = 0
[Description]	Selects the character printing direction and starting point in page mode.

n	Print Direction	Starting Point
0, 48	Left to Right	Upper Left (A in the figure below)
1, 49	Bottom to Top	Lower Left (B in the figure below)
2, 50	Right to Left	Lower Right (C in the figure below)
3, 51	Top to Bottom	Upper Right (D in the figure below)

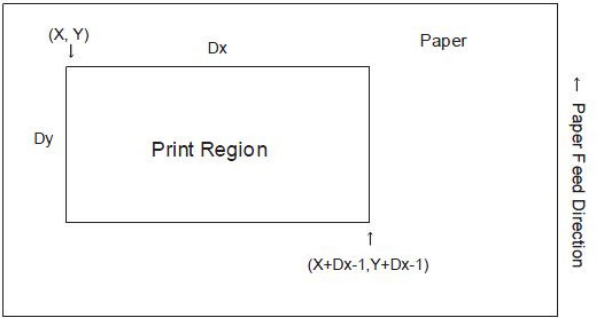


ESC V n

[Name]	Turn 90 degree clockwise rotation mode on/off
[Format]	ASCII ESC V n

<table>
<tr><td></td><td>Hex. 1B 56 n
Decimal 27 86 n</td></tr>
<tr><td>[Range]</td><td>0 ≤ n≤ 1, 48≤ n ≤49
Initial Value n = 0</td></tr>
<tr><td>[Description]</td><td>Specifies or cancels character 90 degree clockwise rotation.
<table>
<tr><th>n</th><th>Function</th></tr>
<tr><td>0, 48</td><td>Turns off 90 degree clockwise rotation mode</td></tr>
<tr><td>1, 49</td><td>Turns on 90 degree clockwise rotation mode</td></tr>
</table>
● Underlines are not applied to characters rotated 90 degrees clockwise even when ESC !,ESC - or FS - commands are given.
● If 90 degree clockwise rotation is specified, double-wide and double-tall commands in the 90 rotation mode enlarges characters in the opposite directions to double-wide and double-tall commands.
● This command only affects printing in standard mode.
● In page mode, this command is only effective for the setting.
● This command is effective for ANK and Chinese characters.</td></tr>
</table>

ESC W xL xH yL yH dxL dxH dyL dyH

[Name]	Set printing area in page mode
[Format]	ASCII ESC W xL xH yL yH dxL dxH dyL dyH Hex. 1B 57 xL xH yL yH dxL dxH dyL dyH Decimal 27 87 xL xH yL yH dxL dxH dyL dyH
[Range]	0 ≤ xL, xH, yL, yH, dxL, dxH, dyL, dyH ≤ 255 However, this excludes dxL = dxH = 0 or dyL = dyH = 0 Initial Value xL = xH = yL = yH = 0
[Description]	Sets the print region position and size. ● Horizontal direction starting point [(xL + xH x 256) x basic calculated pitch] ● Vertical direction starting point [(yL + yH x 256) x basic calculated pitch] ● Horizontal direction length [(dxL + dxH x 256) basic calculated pitch] ● Vertical direction length = [(dyL + dyH x 256) basic calculated pitch] ● (X+Dx-1)<576 (3 inch,basic calculated pitch=1);(X+Dx-1)<432 (2 inch,basic calculated pitch=1) ● (Y+Dy-1)<768 (basic calculated pitch=1); ● If (horizontal starting position + printing area width) exceeds the printable area, the printing area width is automatically set to (horizontal printable area - horizontal starting position). ● If (vertical starting position + printing area height) exceeds the printable area, the printing area height is automatically set to (vertical printable area - vertical starting position). 

ESC \ nL nH

[Name]	Set relative print position.
[Format]	ASCII ESC \ nL nH Hex. 1B 5C nL nH Decimal 27 92 nL nH
[Range]	0 ≤ (nL + nH x 256) ≤ 65535 (0 ≤ nL 255, 0 ≤ nH ≤ 255)
[Description]	Specifies the next print starting position with a relative position based on the current position. This sets the position from the current position to [(nL + nH x 256) x basic calculated pitch] for the next print starting position. ● Specifications exceeding the print range are ignored..

ESC a n

[Name]	Select justification.
[Format]	ASCII ESC a n Hex. 1B 61 n Decimal 27 97 n
[Range]	0 ≤ n ≤2 Initial Value n = 0
[Description]	This command specifies position alignment for all data in one line in standard mode, using n as follows: n: Alignment 0: Left alignment 1: Center alignment 2: Right alignment This command has no effect in page mode.

ESC c 3 n

[Name]	Select paper sensor(s) to output paper-end signals.
[Format]	ASCII ESC c 3 n Hex. 1B 63 33 n Decimal 27 99 51 n
[Range]	Specification: 0 ≤ n ≤ 3 Initial Value n = 0
[Description]	Selects paper out detector that outputs a paper out signal when paper has run out.

Bit	Function	"0"	"1"
7	Undefined		
6	Undefined		
5	Undefined		
4	Undefined		
3	Undefined		
2	Undefined		
1	Paper roll near end detector	Invalid	Valid
0	Paper roll near end detector	Invalid	Valid

ESC c 4 n

[Name]	Select paper sensor(s) to stop printing.
[Format]	ASCII ESC c 4 n Hex. 1B 63 34 n Decimal 27 99 52 n
[Range]	Specification: 0 ≤ n ≤ 3 Initial Value n = 0
[Description]	Selects the paper out detector to stop printing when paper has run out.

Bit	Function	"0"	"1"
7	Undefined		
6	Undefined		
5	Undefined		
4	Undefined		
3	Undefined		
2	Undefined		
1	Paper roll near end detector	Invalid	Valid
0	Paper roll near end detector	Invalid	Valid

ESC c 5 n

[Name]	Enable/disable panel buttons
[Format]	ASCII ESC c 5 n Hex. 1B 63 35 n

	Decimal 27 99 53 n
[Range]	Specification: 0 ≤ n ≤ 255 Initial Value n = 0
[Description]	Toggles the panel switches between enabled and disabled. ● Enables panel switches when n = <*******0>B. ● Disables panel switches when n = <*******1>B. ● n is effective only when it is the lowest bit. ● When disabled, all panel switches are disabled.

ESC d n

[Name]	Print and feed n lines
[Format]	ASCII ESC d n Hex. 1B 64 n Decimal 27 100 n
[Range]	0 ≤ n ≤ 255
[Description]	Prints the data in the print buffer and performs a paper feed of n lines. ● Sets the print position to the beginning of the next line after printing. ● Paper is fed approximately 150 mm if the [n x basic calculated pitch] exceeds approximately 150 mm (5.9 inches).

ESC i

[Name]	Full cut.
[Format]	ASCII ESC i Hex. 1B 69 Decimal 27 105
[Range]	N/A
[Description]	This command executes a full cut of the paper in standard mode

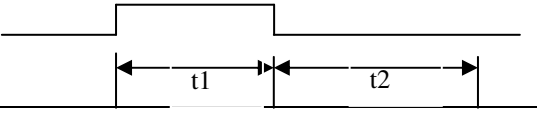
ESC m

[Name]	Partial cut.
[Format]	ASCII ESC m Hex. 1B 6D Decimal 27 109
[Range]	N/A
[Description]	This command executes a partial cut of the paper with one point uncut in standard mode.

ESC p m t1 t2

[Name]	General pulse.
[Format]	ASCII ESC p m t1 t2 Hex. 1B 70 m t1 t2 Decimal 27 112 m t1 t2
[Range]	$0 \le m \le 1, 48 \le m \le 49$ $0 \le t1 \le 255$ $0 \le t2 \le 255$
[Description]	This outputs a signal specified by t1 and t2 to the connector pin specified by m. Drawer kick on time is set to t1 x 2 ms; off time is set to t2 x 2 ms.

m	Connector Pin
0, 48	Drawer kick connector pin #2
1, 49	Drawer kick connector pin #5



ESC t n

[Name]	Select character code table.
[Format]	ASCII ESC t n Hex. 1B 74 n Decimal 27 116 n
[Range]	0 ≤ n ≤ 8 Initial Value n = 0
[Description]	Select page n of the character code table.

n	Character set
0	CP-437
1	Katakana
2	CP-850
3	CP-852
4	CP-860
5	CP-863
6	CP-865
7	CP-1252
8	User Define

ESC { n

[Name]	Turns upside-down printing mode on/off.
[Format]	ASCII ESC { n Hex. 1B 7B n Decimal 27 123 n
[Range]	0 ≤ n ≤ 255 Initial Value n = 0
[Description]	Specifies or cancels upside-down printing. ● Cancels upside-down printing when n = <*******0>H. ● Specifies upside-down printing when n = <*******1>H. ● n is effective only when it is the lowest bit. ● This command is effective only when input at the top of the line when standard mode is being used. ● This command has no affect in page mode. In page mode, this command is only effective for the setting. ● Upside-down printing rotates line data 180 degrees.

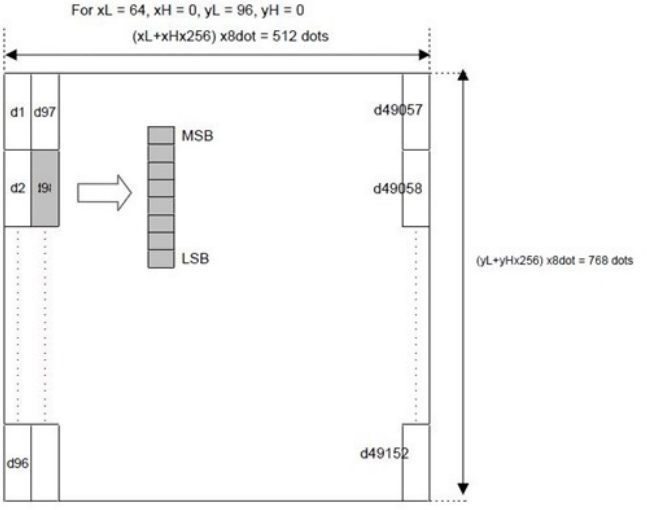
n	Upside-down mode
0	Turned off
1	Turned on

FS p n m

[Name]	Print NV bit image.
[Format]	ASCII FS p n m Hex. 1C 70 n m Decimal 28 112 n m
[Range]	$1 \le n \le 255$ $0 \le m \le 3, 48 \le m \le 51$
[Description]	Prints NV bit image n using mode m. ● n specifies the NV bit image number. ● m specifies the bit-image mode. ● NV bit image is a bit image defined in non-volatile memory by FS q and printed by this command. ● This command is ignored when the specified NV bit image n is undefined. ● This command is effective only when no data exists in the print buffer in standard mode.

m	Mode
0, 48	Nornal
1, 49	Double-width
2, 50	Double-height
3, 51	Quadruple

FS q n [xL xH yL yH d1…dk]1…[xL xH yL yH d1…dk]n

[Name]	Define NV bit image.
[Format]	ASCII FS q n [xL xH yL yH d1…dk]1…[xL xH yL yH d1…dk]n Hex. 1C 71 n [xL xH yL yH d1…dk]1…[xL xH yL yH d1…dk]n Decimal 28 113 n [xL xH yL yH d1…dk]1…[xL xH yL yH d1…dk]n
[Range]	$1 \le n \le 255$ $1 \le (xL + xH \times 256) \le 54$ ($0 \le xL \le 54$, xH=0) for 2 inch $1 \le (xL + xH \times 256) \le 72$ ($0 \le xL \le 72$, xH=0) for 3 inch $1 \le (yL + yH \times 256) \le 96$ ($0 \le yL \le 96$, yH=0) $0 \le d \le 255$ $k = (xL + xH \times 256) \times (yL + yH \times 256) \times 8$
[Description]	Defines the specified NV bit image. ● n specifies the number of NV bit images to define. ● xL and xH specify the horizontal direction for one NV bit image (xL + xH x 256) x 8 dots. ● yL and yH specify the vertical direction for one NV bit image (yL + yH x 256) x 8 dots. 

GS ! n

[Name]	Select character size.
[Format]	ASCII GS ! n Hex. 1D 21 n Decimal 29 33 n
[Range]	0 ≤ n ≤ 255 (1 ≤ Vertical enlargement ≤ 8, 1 ≤ Horizontal enlargement ≤ 8) Initial Value n = 0
[Description]	This command selects the character height and width using bits 0 to 3, and bits 4 to 7 respectively as follows:

Bit	Function	Setting
0 1 2 3	Specifies the number of times normal font size in the vertical direction	Refer to Table 2 [Enlarged in vertical direction]
4 5 6 7	Specifies the number of times normal font size in the horizontal direction	Refer to Table 1 [Enlarged in horizontal direction]

Table 1 [Enlarged in horizontal direction]

Hex	Decimal	Enlargement
00	0	1 time(standard)
10	16	2 times
20	32	3 times
30	48	4 times
40	64	5 times
50	80	6 times
60	96	7 times
70	112	8 times

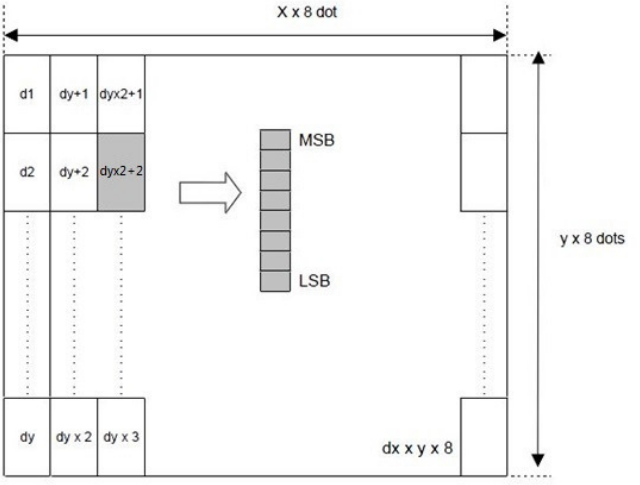
Table 2 [Enlarged in vertical direction]

Hex	Decimal	Enlargement
00	0	1 time(standard)
01	1	2 times
02	2	3 times
03	3	4 times
04	4	5 times
05	5	6 times
06	6	7 times
07	7	8 times

GS $ nL nH

[Name]	Set absolute vertical print position in page mode
[Format]	ASCII GS $ nL nH Hex. 1D 24 nL nH Decimal 29 36 nL nH
[Range]	0 ≤ nL ≤ 255, 0 ≤ nH ≤ 255,
[Description]	Specifies the character vertical direction position for the data expansion starting position using the absolute position based on the starting point in page mode. The position of the character vertical direction for the next data expansion starting position is the position specified by [(nL + nH x 256) x basic calculated pitch] from the starting point. ● When not in page mode, this command is ignored. ● Specifications for absolute positions that exceed the specified print range are ignored.

GS * X Y [d1…d(X x Y x 8)]

[Name]	Define download bit images.
[Format]	ASCII GS * X Y [d1…d(X x Y x 8)] Hex. 1D 2A X Y [d1…d(X x Y x 8)] Decimal 29 42 X Y [d1…d(X x Y x 8)]
[Range]	1 ≤ X ≤ 54 (for 2 inch) 1 ≤ X ≤ 72 (for 3 inch) 1 ≤ Y ≤ 96 0 ≤ d ≤ 255
[Description]	Defines the download bit image of the number of dots specified by X and Y. ● X specifies the number of bytes in the horizontal direction. ● Y specifies the number of bytes in the vertical direction. ● Horizontal direction dot count is X x 8 dots; Vertical direction dot count is Y x 8 dots ● d indicates the bit-image data. Bits that correspond to the dots to print are 1, and the bits that correspond to the dots that are not printed are 0. 

GS (A pL pH n m

[Name]	Execute test print.
[Format]	ASCII GS (A pL pH n m Hex. 1D 28 41 pL pH n m Decimal 29 40 65 pL pH n m
[Range]	{pL+ (pH×256) } = 2 (pL = 2,pH = 0) 0 ≤ n ≤ 2 , 48 ≤ n ≤ 50 2 ≤ m ≤ 3 , 50 ≤ m ≤ 51
[Description]	Executes the specified test print. The following command is ignored in page mode. Specifies the parameter count following pL and pH in (pL + (pH x 256)) bytes. *n* specifies the paper to be tested.

n	Paper Type
0 , 48	Basic sheet (paper roll)
1 , 49 2 , 50	Paper Roll

m specifies a test pattern..

m	Type of Test Print
2 , 50	Printer Status (Self Print)
3 , 51	Rolling Pattern Print

GS (K pL pH n m

[Name]	Set print density.
[Format]	ASCII GS (A pL pH n m Hex. 1D 28 4B pL pH n m Decimal 29 40 75 pL pH n m
[Range]	{pL+ (pH×256) } = 2 (pL = 2,pH = 0) n = 49 250 ≤ m ≤ 255, 0 ≤ m ≤ 6 Initial Value m = 0

[Description] Sets print density..

m	Print Density
250	0.7
251	0.7
252	0.8
253	0.8
254	0.9
255	0.9
0	1.0
1	1.1
2	1.1
3	1.2
4	1.2
5	1.3
6	1.3

GS / m

[Name] Print downloaded bit image.

[Format]
ASCII GS / m
Hex. 1D 2F m
Decimal 29 47 m

[Range] $0 \le m \le 3, 48 \le m \le 51$

[Description] This command prints the downloaded bit image defined by GS * according to the mode denoted by m.

m	Mode	Vertical dot density(DPI)	Horizontal dot density(DPI)
0 , 48	Normal	203	203
1 , 49	Double-width	203	101
2 , 50	Double-height	101	203
3 , 51	Quadruple	101	101

GS B n

[Name] Turn white/black reverse printing mode on/off

[Format]	ASCII GS B n Hex. 1D 42 n Decimal 29 66 n
[Range]	0 ≤ n ≤ 255 Initial Value n = 0
[Description]	Specifies or cancels black and white inverted printing. ● Cancels black and white inverted printing when n = <*******0>B. ● Specifies black and white inverted printing when n = <*******1>B. ● n is effective only when it is the lowest bit. ● Internal characters and download characters are targeted for black and white inverted printing. ● This command is effective for ANK and Chinese characters.

GS H n

[Name]	Select printing position of HRI characters.
[Format]	ASCII GS H n Hex. 1D 48 n Decimal 29 72 n
[Range]	0 ≤ n ≤ 3, 48 ≤ n ≤ 51 Initial Value n = 0
[Description]	Selects the printing position of HRI characters when printing bar codes.

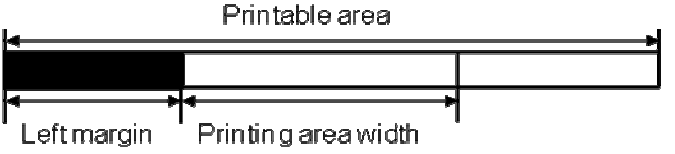
m	Printing Position
0, 48	No print
1, 49	Above bar code
2, 50	Below bar code
3, 51	Above and below bar code(both)

GS I n

[Name]	Transmit printer ID.
[Format]	ASCII GS I n Hex. 1D 49 n Decimal 29 73 n
[Range]	$1 \le n \le 3, 49 \le n \le 51, 65 \le n \le 69$
[Description]	Transmits the printer ID specified by *n* as follows:

n	Printer ID Type	Specifications
1, 49	Model ID	MB-1030 or MP-1060
2, 50	Type ID	1030-XX or 1060-XX
3, 51	ROM Version ID	Depends on the ROM version
65	Firmware Version	Depends on the firmware version
66	Manufacturer Name	MB-1030 System or MP-1060 System
67	Model Name	MB-1030 or MP-1060
68	Serial Number	Depends on the serial number
69	Chinese Character Types	Taiwan Language Characters: TW_BIG5 Japanese Language Characters: JP_SJIS Chinese Language Characters: CN_GB2312 Korean Language Characters: KO_EUC-KR

GS L nL nH

[Name]	Set left margin.
[Format]	ASCII GS L nL nH Hex. 1D 4C nL nH Decimal 29 76 nL nH
[Range]	0 ≤ nL ≤ 255, 0 ≤ nH ≤ 255 Initial Value (nL + nH x 256)=0 (nL=0, nH=0)
[Description]	nL and nH set the specified left margin. The left margin is [(nL + nH x 256) x basic calculated pitch]. 

GS P x y

[Name]	Set basic calculated pitch.
[Format]	ASCII GS P x y Hex. 1D 50 x y Decimal 29 80 x y
[Range]	0 ≤ x ≤ 255 0 ≤ y ≤ 255 Initial Value x = 203, y = 203: EPSON targeted model print head 203 DPI
[Description]	Sets the horizontal basic calculated pitch to approximately 25.4/xmm [(1/x) inch], and the vertical basic calculated pitch to approximately 25.4/ymm [(1/y) inch]. x = 0: Returns the horizontal basic calculated pitch to its default value. y = 0: Returns the vertical basic calculated pitch to its default value.

GS V m

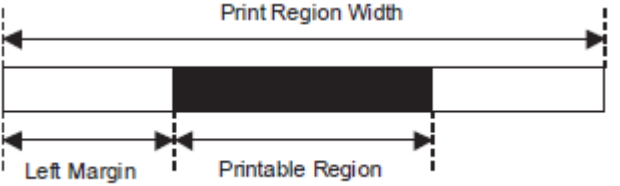
[Name]	Cut paper.
[Format]	ASCII GS V m (n)

	Hex. 1D 56 m (n) Decimal 29 86 m (n)
[Range]	m = 0,1,48,49,65,66 0 ≤ n ≤ 255
[Description]	Executes specified paper cut.

m	Function
0 , 48	Full cut
1 , 49	Partial cut (one point uncut)
65	Feeds paper to (cutting position + [n x basic calculated pitch]) and performs a full cut
66	Feeds paper to (cutting position + [n x basic calculated pitch]) and performs a partial cut (one point uncut)

GS W nL nH

[Name]	Set printing area width.
[Format]	ASCII GS W nL nH Hex. 1D 57 nL nH Decimal 29 87 nL nH
[Range]	0 ≤ nL ≤ 255, 0 ≤ nH ≤ 255
[Description]	● Sets the print region width specified by nL and nH. ● Print region width is [(nL + nH x 256) x basic calculated pitch]. ● [(nL + nH x 256) x basic calculated pitch] >=24.



GS \ nL nH

[Name]	Set relative vertical print position in page mode.
[Format]	ASCII GS \ nL nH Hex. 1D 5C nL nH Decimal 29 92 nL nH
[Range]	0 ≤ nL ≤ 255 0 ≤ nH ≤ 255
[Description]	Specifies the character vertical direction position for the data expansion starting position using the relative position based on the current point in page mode. This sets the position moved from the current position to [(nL + nH x 256) x basic calculated pitch] for the next data expanding starting position. ● When not in page mode, this command is ignored.

GS a n

[Name]	Enable/disable Automatic Status Back (ASB).
[Format]	ASCII GS a n Hex. 1D 61 n Decimal 29 97 n
[Range]	0 ≤ n ≤ 255 Initial Value n = 0

[Description]

Selects the statuses that are targeted for transmission with the automatic status function (ASB: Automatic Status Back).

Bits	Statuses Targeted for ASB	"0"	"1"
7	Undefined	---	---
6	Undefined	---	---
5	Undefined	---	---
4	Undefined	---	---
3	Continuous Paper Detector	Invalid	Valid
2	Error	Invalid	Valid
1	ONLINE/OFFLINE Status	Invalid	Valid
0	Drawer kick connector pin #3	Invalid	Valid

The printer information transmitted is comprised of 4 bytes as follows:

First byte(printer information)

Bit	Off/On	Hex	Decimal	Function
7	Off	00	0	Not used. Fixed to Off
6	Off	00	0	Paper is not being fed by the paper feed button
	On	40	64	Paper is being fed by the paper feed button
5	Off	00	0	Cover is close
	On	20	32	Cover is open
4	On	10	16	Not used. Fixed to On
3	Off	00	0	On-line
	On	08	8	Off-line
2	Off	00	0	Drawer kick-out connector pin 3 is LOW
	On	04	4	Drawer kick-out connector pin 3 is HIGH
1	Off	00	0	Not used. Fixed to Off
0	Off	00	0	Not used. Fixed to Off

Second byte(printer information)

Bit	Off/On	Hex	Decimal	Function
7	Off	00	0	Not used. Fixed to Off

6	Off	00	0	Not used. Fixed to Off
5	Off	00	0	Not used. Fixed to Off
4	Off	00	0	Not used. Fixed to Off
3	On	08	8	Not used. Fixed to Off
2	On	04	4	Not used. Fixed to Off
1	On	02	2	Not used. Fixed to Off
0	On	01	1	Not used. Fixed to Off

Third byte (paper sensor information)

Bit	Off/On	Hex	Decimal	Function
7	Off	00	0	Not used. Fixed to Off
6	Off	00	0	Not used. Fixed to Off
5	Off	00	0	Not used. Fixed to Off
4	On	00	0	Not used. Fixed to Off
2,3	Off	00	0	Paper end sensor: paper present
	On	0C	12	Paper end sensor: no paper present
0,1	Off	00	0	Paper near end sensor: paper adequate
	On	03	3	Paper near end sensor: paper near end

Fourth byte (paper sensor information)

Bit	Off/On	Hex	Decimal	Function
7	Off	00	0	Not used. Fixed to Off
6	Off	00	0	Black mark sensor status
5	Off	00	0	Not used. Fixed to Off
4	Off	00	0	Not used. Fixed to Off
3	On	08	8	Not used. Fixed to On
2	On	04	4	Not used. Fixed to On
1	On	02	2	Not used. Fixed to On
0	On	01	1	Not used. Fixed to On

GS f n

[Name]	Select font for HRI characters.
[Format]	ASCII GS f n Hex. 1D 66 n Decimal 29 102 n
[Range]	n = 0,1,48,49 Initial Value n = 0
[Description]	Selects the HRI character font when printing bar codes.

n	Font
0, 48	Selects Font A (12 x 24).
1, 49	Selects Font B (9 x 17).

GS h n

[Name]	Set bar code height.
[Format]	ASCII GS h n Hex. 1D 68 n Decimal 29 104 n
[Range]	1 ≤ n ≤ 255 Initial Value n = 162
[Description]	Sets bar code height to n dots.

1. GS k m d1 … dk NUL.
2. GS k m n d1 … dk

[Name]	Print bar code.
[Format]	1. ASCII GS k m d1...dk NUL Hex. 1D 6B m d1...dk NUL Decimal 29 107 m d1...dk NUL 2. ASCII GS k m n d1...dk Hex. 1D 6B m n d1...dk Decimal 29 107 m n d1...dk
[Range]	1. 0 ≤ m ≤ 6 The definition region of k and d differ according to the bar code type. 2. 65 ≤ m ≤ 73 The definition region of n and d differ according to the bar code type.
[Description]	Selects bar code type and prints bar codes. 1:

m	Bar Code Type	Defined region of k	Defined region of d

0	UPC-A	11 ≤ k ≤ 12	48 ≤ d ≤ 57
1	UPC-E	11 ≤ k ≤ 12	48 ≤ d ≤ 57
2	JAN13 (EAN13)	12 ≤ k ≤ 13	48 ≤ d ≤ 57
3	JAN8 (EAN8)	7 ≤ k ≤ 8	48 ≤ d ≤ 57
4	CODE39	1 ≤ k ≤ 255	48 ≤ d ≤ 57, 65 ≤ d ≤ 90, 32, 36, 37, 43, 45, 46, 47
5	ITF	2 ≤ k ≤ 254 (However, this is an even number.)	48 ≤ d ≤ 57
6	CODABAR	1 ≤ k ≤ 255	48 ≤ d ≤ 57, 65 ≤ d ≤ 68, 36, 43, 45, 46, 47, 58

2:

m	Bar Code Type	Defined region of n	Defined region of d
65	UPC-A	11 ≤ n ≤ 12	48 ≤ d ≤ 57
66	UPC-E	11 ≤ n ≤ 12	48 ≤ d ≤ 57
67	JAN13 (EAN13)	12 ≤ n ≤ 13	48 ≤ d ≤ 57
68	JAN8 (EAN8)	7 ≤ n ≤ 8	48 ≤ d ≤ 57
69	CODE39	1 ≤ n ≤ 255	48 ≤ d ≤ 57, 65 ≤ d ≤ 90, 32, 36, 37, 43, 45, 46, 47
70	ITF	2 ≤ n ≤ 254 (However, this is an even number.)	48 ≤ d ≤ 57
71	CODABAR	1 ≤ n ≤ 255	48 ≤ d ≤ 57, 65 ≤ d ≤ 68, 36, 43, 45, 46, 47, 58
72	CODE93	1 ≤ n ≤ 255	0 ≤ d ≤ 127
73	CODE128	2 ≤ n ≤ 255	0 ≤ d ≤ 127

GS r n

[Name]	Transmit status.
[Format]	ASCII GS r n Hex. 1D 72 n Decimal 29 114 n
[Range]	n = 1, 2, 49, 50
[Description]	Sends the specified status.

Detector Status (n=1,49)

Bit	Status	"0"	"1"
7	Fixed at 0		
6	Undefined		
5	Undefined		
4	Fixed at 0		
3	Paper roll end detector	Has Paper	Paper out
2	Paper roll end detector	Has Paper	Paper out
1	Paper roll near end detector	Has Paper	Paper out
0	Paper roll near end detector	Has Paper	Paper out

Drawer Kick Connector Status (n=2,50)

Bit	Status	"0"	"1"
7	Fixed at 0		
6	Undefined		
5	Undefined		
4	Fixed at 0		
3	Undefined		
2	Undefined		
1	Undefined		
0	Drawer kick connector pin #3	"L"	"H"

GS v 0 m xL xH yL yH d1 … dk

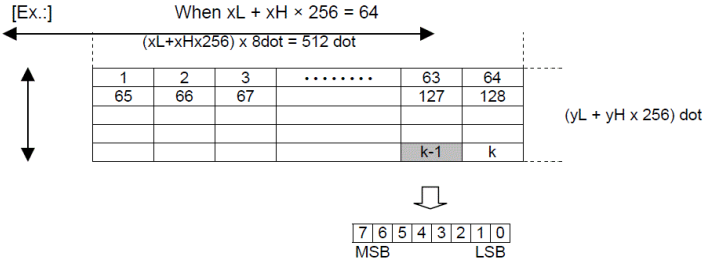
[Name]	Print raster bit image.
[Format]	ASCII GS v 0 m xL xH yL yH d1...dk Hex. 1D 76 30 m xL xH yL yH d1...dk Decimal 29 118 48 m xL xH yL yH d1...dk
[Range]	m = 0, m = 48 0 ≤ xL ≤ 54(for 2 inch) 0 ≤ xL ≤ 72(for 3 inch)

$0 \leq xH \leq 0$
$0 \leq yL \leq 255$
$0 \leq yH \leq 3$
$0 \leq d \leq 255$
$k = (xL+xH\times256) \times (yL+yH\times256)$ However, $k \neq 0$

[Description] Prints raster method bit images using mode m.

m	Mode	Density of Vert. Dir. Dots	Density of Hor. Dir. Dots
0, 48	Normal Mode	203 DPI	203 DPI

- xL and xH specify the horizontal direction data count for one bit image (xL + xH x 256) in bytes.
- yL and yH specify the vertical direction data count for one bit image (yL + yH x 256) in bytes.



GS w n

[Name]	Set bar code width.
[Format]	ASCII GS w n Hex. 1D 77 n Decimal 29 119 n
[Range]	$1 \leq n \leq 6$ Initial Value n = 2
[Description]	Sets the bar code horizontal size.

n	Multi-level Bar Code Module Width [mm]	Binary Level Bar Code	
		Fine Element Width[mm]	Thick Element Width[mm]
1	0.141	0.141	0.423
2	0.282	0.282	0.706
3	0.423	0.423	1.129
4	0.564	0.564	1.411
5	0.706	0.706	1.834
6	0.847	0.847	2.258

TWO-DIMENSIONAL BAR CODE COMMAND DETAILS

DC2 ; n

[Name]	QR Code Module Size Set
[Format]	ASCII DC ; n Hex. 12 3B n Decimal 18 59 n
[Range]	$2 \leq n \leq 16$ Initial Value n = 2
[Description]	Specifies a module size of QR Code and Data Matrix. n: The number of dots for one side of the module size.

GS p 1

[Name]	QR Code Print
[Format]	ASCII GS p 1 model e v mode nl nh [data] Hex. 1D 70 01 model e v mode nl nh [data] Decimal 29 112 01 model e v mode nl nh [data]
[Range]	model=01, 02 e=4Ch, 4Dh, 51h, 48h 0, 1 ≤ v ≤ 40 mode=4Eh, 41h, 42h, 4Bh, 4Dh 1≤ nh×256+nl≤ 7089
[Description]	Prints QRCode data based on the specified contents. model: Specifies a model e: Selects an error correction level. 'L' (4CH), 'M' (4DH), 'Q' (51H), 'H' (48H) v: =0: Automatic selection (A version is automatically selected depending on the number of input data.) 1 ≤ v ≤ 40 Fixed version (up to 14 for model-1) mode: Specifies a mode of data.

Mode	Hexadecimal	Mode
N	4E	Numerical mode
A	41	Alphanumeric mode
B	42	8-bit byte mode
K	4B	Kanji mode
M	4D	Mixed mode

nl, nh: Specifies the number of data.

Data: Kanji data of the QRCode data should be set by Shift JIS code.

KANJI CONTROL COMMAND DETAILS

FS ! n

[Name]	Set print mode(s) for Kanji characters.
[Format]	ASCII FS ! n Hex. 1C 21 n Decimal 28 33 n
[Range]	0 ≤ n ≤ 255 Initial Value n = 0
[Description]	Batch specifies the Kanji character print mode.

Bit	Function	"0"	"1"
7	Underline	Off	On
6	Undefined		
5	Undefined		
4	Undefined		
3	Double tall expanded	Off	On
2	Expanded wide	Off	On
1	Undefined		
0	Undefined		

FS &

[Name]	Select Kanji character mode.
[Format]	ASCII FS & Hex. 1C 26 Decimal 28 38
[Range]	N/A
[Description]	Specifies Kanji character mode.

FS - n

[Name]	Turn underline mode on/off for Kanji characters
[Format]	ASCII FS - n Hex. 1C 2D n Decimal 28 45 n
[Range]	0 ≤ n ≤ 2, 48 ≤ n ≤ 50
[Description]	Specifies or cancels Kanji character underlines.

n	Function
0,48	Cancels Kanji character underline
1,49	Sets to one-dot width Kanji character underline and specifies Kanji character underlines.
2,50	Sets to two-dot width Kanji character underline and cancels Kanji character underlines.

FS .

[Name]	Cancel Kanji character mode.
[Format]	ASCII FS . Hex. 1C 2E Decimal 28 46
[Range]	N/A
[Description]	Cancels Kanji character mode.

FS S n1 n2

[Name]	Set Kanji character spacing
[Format]	ASCII FS S n1 n2 Hex. 1C 53 n1 n2 Decimal 28 83 n1 n2
[Range]	0 ≤ n1 ≤ 255, 0 ≤ n2 ≤ 255 Initial Value n1 = 0, n2=0
[Description]	Sets the Kanji character space amount and right space amount. ● Left space amount: n1 x (basic calculated pitch) ● Right space amount: n2 x (basic calculated pitch)

FS W n

[Name]	Turn quadruple-size mode on/off for Kanji characters.
[Format]	ASCII FS W n Hex. 1C 57 n Decimal 28 87 n
[Range]	$0 \leq n \leq 255$ Initial Value n = 0
[Description]	Specifies or cancels quadruple size Kanji character. ● Cancels quadruple size when n = <*******0>B. ● Specifies quadruple size when n = <*******1>B. ● n is effective only when it is the lowest bit.

LANGUAGES

CHAPTER

7

This chapter shows tables of character codes.

Note: All the tables only show the character configurations. They do not show the actual print pattern.

Sections include:

- Ank Code Page
- INTERNATIONAL CHARACTERS
- Japanese Language Codes (Shift-JIS Codes)
- Taiwanese Language Codes
- Simplified Chinese Language Codes
- Korean Language Codes

7-1 Ank Codes

CP-437

CP-850

CP-857

CP-737

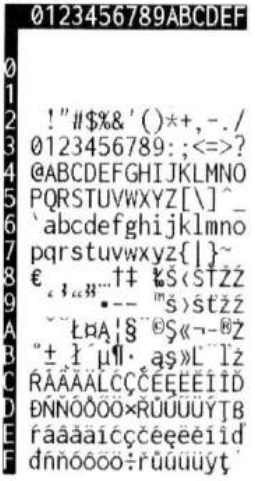
CP-852

CP-860

CP-862

CP-865

CP-1250



CP-863

CP-866

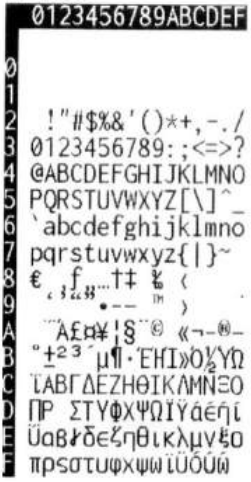
CP-1251

CP-1252

CP-1254

Katakana

CP-1253

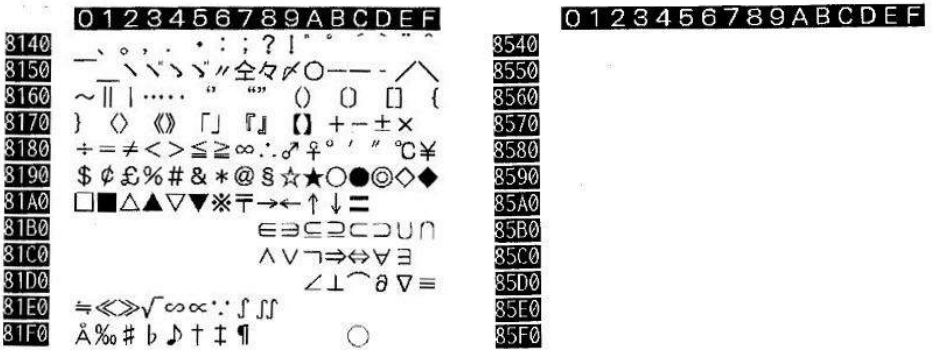


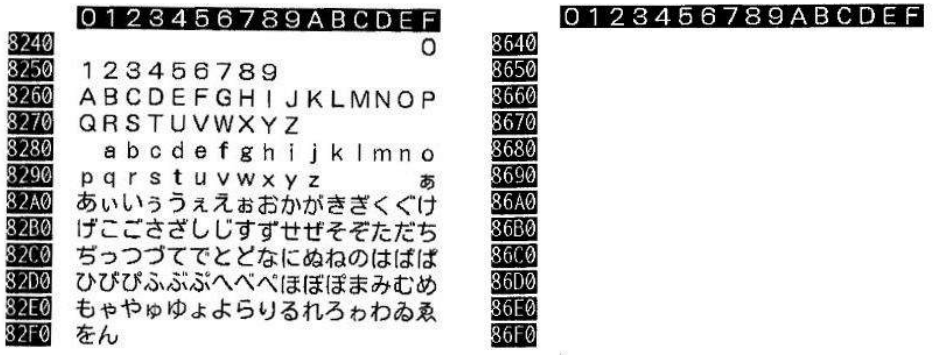
CP-1257

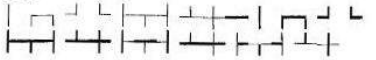
7-2 International Characters

	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
U.S.A	#	$	@	[	\	]	^	`	{	|	}	~
France	#	$	à	°	Ç	§	^	`	é	ù	è	¨
Germany	#	$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß
UK	£	$	@	[	\	]	^	`	{	|	}	~
Denmark I	#	$	@	Æ	Ø	Å	^	`	æ	ø	å	~
Swden	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italy	#	$	@	°	\	é	^	ù	à	ò	è	ì
Spain	₧	$	@	¡	Ñ	¿	^	`	¨	ñ	}	~
Japan	#	$	@	[	¥	]	^	`	{	|	}	~
Norway	#	¤	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Denmark II	#	$	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Spain II	#	$	á	¡	Ñ	¿	é	`	í	ñ	ó	ú
Latin America	#	$	á	¡	Ñ	¿	é	ü	í	ñ	ó	ú
Korea	#	$	@	[	₩	]	^	`	{		}	~
Russia	#	$	@	[	\	]	^	`	{		}	~
Slavonic	#	$	@	[	\	]	^	`	{		}	~

7-3 Japanese Language Codes (Shift-JIS Codes)





	0 1 2 3 4 5 6 7 8 9 A B C D E F
8440	А Б В Г Д Е Ё Ж З И Й К Л М Н О
8450	П Р С Т У Ф Х Ц Ч Ш Щ Ъ Ы Ь Э Ю
8460	Я
8470	а б в г д е ё ж з и й к л м н
8480	о п р с т у ф х ц ч ш щ ъ ы ь э
8490	ю я
84A0	
84B0	
84C0	
84D0	
84E0	
84F0	

	0 1 2 3 4 5 6 7 8 9 A B C D E F
8840	
8850	
8860	
8870	
8880	
8890	亜
88A0	唖娃阿哀愛挨姶逢葵茜穐悪握渥旭葦
88B0	芦鯵梓圧斡扱宛姐虻飴絢綾鮎或粟袷
88C0	安庵按暗案闇鞍杏以伊位依偉囲夷委
88D0	威尉惟意慰易椅為畏異移維緯胃萎衣
88E0	謂違遺医井亥域育郁磯一壱溢逸稲茨
88F0	芋鰯允印咽員因姻引飲淫胤蔭

	0 1 2 3 4 5 6 7 8 9 A B C D E F
8940	院陰隠韻吋右宇烏羽迂雨卯鵜窺丑碓
8950	臼渦嘘唄鬱蔚鰻姥厩浦瓜閏噂云運雲
8960	荏餌叡営嬰影映曳栄永泳洩瑛盈穎頴
8970	英衛詠鋭液疫益駅悦謁越閲榎厭円
8980	園堰奄宴延怨掩援沿演炎焔煙燕猿縁
8990	艶苑薗遠鉛鴛塩於汚甥凹央奥往応押
89A0	旺横欧殴王翁襖鴬鴎黄岡沖荻億屋憶
89B0	臆桶牡乙俺卸恩温穏音下化仮何伽価
89C0	佳加可嘉夏嫁家寡科暇果架歌河火珂
89D0	禍禾稼箇花苛茄荷華菓蝦課嘩貨迦過
89E0	霞蚊俄峨我牙画臥芽蛾賀雅餓駕介会
89F0	解回塊壊廻快怪悔恢懐戒拐改

	0 1 2 3 4 5 6 7 8 9 A B C D E F
8D40	后喉坑垢好孔孝宏工巧巷幸広庚康弘
8D50	恒慌抗拘控攻昂晃更杭校梗構江洪浩
8D60	港溝甲皇硬稿糠紅紘絞綱耕考肯肱腔
8D70	膏航荒行衡講貢購郊酵鉱砿鋼閤降
8D80	項香高鴻剛劫号合壕拷濠豪轟麹克刻
8D90	告国穀酷鵠黒獄漉腰甑忽惚骨狛込此
8DA0	頃今困坤墾婚恨懇昏昆根梱混痕紺艮
8DB0	魂些佐叉唆嵯左差査沙瑳砂詐鎖裟坐
8DC0	座挫債催再最哉塞妻宰彩才採栽歳済
8DD0	災采犀砕砦祭斎細菜裁載際剤在材罪
8DE0	財冴坂阪堺榊肴咲崎埼碕鷺作削咋搾
8DF0	昨朔柵窄策索錯桜鮭笹匙冊刷

	0 1 2 3 4 5 6 7 8 9 A B C D E F
8A40	魁晦械海灰界皆絵芥蟹開階貝凱劾外
8A50	咳害崖慨概涯碍蓋街該鎧骸浬馨蛙垣
8A60	柿蛎鈎劃嚇各廓拡撹格核殻獲確穫覚
8A70	角赫較郭閣隔革学岳楽額顎掛笠樫
8A80	橿梶鰍潟割喝恰括活渇滑葛褐轄且鰹
8A90	叶椛樺鞄株兜竃蒲釜鎌噛鴨栢茅萱粥
8AA0	刈苅瓦乾侃冠寒刊勘勧巻喚堪姦完官
8AB0	寛干幹患感慣憾換敢柑桓棺款歓汗漢
8AC0	潤灌環甘監看竿管簡緩缶翰肝艦莞観
8AD0	諌貫還鑑間閑関陥韓館舘丸含岸巌玩
8AE0	癌眼岩翫贋雁頑顔願企伎危喜器基奇
8AF0	嬉寄岐希幾忌揮机旗既期棋棄

	0 1 2 3 4 5 6 7 8 9 A B C D E F
8E40	察挿撮擦札殺薩雑皐鯖捌錆鮫皿晒三
8E50	傘参山惨撒散桟燦珊産算纂蚕讃賛酸
8E60	餐斬暫残仕仔伺使刺司史嗣四士始姉
8E70	姿子屍市師志思指支孜斯施旨枝止
8E80	死氏獅祉私糸紙紫肢脂至視詞詩試誌
8E90	諮資賜雌飼歯事似侍児字寺慈持時次
8EA0	滋治爾璽痔磁示而耳自蒔辞汐鹿式識
8EB0	鴫竺軸宍雫七叱執失嫉室悉湿漆疾質
8EC0	実蔀篠偲柴芝屡蕊縞舎写射捨赦斜煮
8ED0	社紗者謝車遮蛇邪借勺尺杓灼爵酌釈
8EE0	錫若寂弱惹主取守手朱殊狩珠種腫趣
8EF0	酒首儒受呪寿授樹綬需囚収周

	0 1 2 3 4 5 6 7 8 9 A B C D E F
8B40	機帰毅気汽畿祈季稀紀徽規記貴起軌
8B50	輝飢騎鬼亀偽儀妓宜戯技擬欺犠疑祇
8B60	義蟻誼議掬菊鞠吉吃喫桔橘詰砧杵黍
8B70	却客脚虐逆丘久仇休及吸宮弓急救
8B80	朽求汲泣灸球究窮笈級糾給旧牛去居
8B90	巨拒拠挙渠虚許距鋸漁凝魚亨享京供
8BA0	侠僑兇競共凶協匡卿叫喬境峡強彊怯
8BB0	恐恭挟教橋況狂狭矯胸脅興蕎郷鏡響
8BC0	饗驚仰凝尭暁業局曲極玉桐粁僅勤均
8BD0	巾錦斤欣欽琴禁禽筋緊芹菌衿襟謹近
8BE0	金吟銀九倶句区狗玖矩苦躯駆駈駒具
8BF0	愚虞喰空偶寓遇隅串櫛釧屑屈

	0 1 2 3 4 5 6 7 8 9 A B C D E F
8F40	宗就州修愁拾洲秀秋終繍習臭舟蒐衆
8F50	襲讐蹴輯週酋酬集醜什住充十従戎柔
8F60	汁渋獣縦重銃叔夙宿淑祝縮粛塾熟出
8F70	術述俊峻春瞬竣舜駿准循旬楯殉淳
8F80	準潤盾純巡遵醇順処初所暑曙渚庶緒
8F90	署書薯藷諸助叙女序徐恕鋤除傷償勝
8FA0	匠升召哨商唱嘗奨妾娼宵将小少尚庄
8FB0	床廠彰承抄招掌捷昇昌昭晶松梢樟樵
8FC0	沼消渉湘焼焦照症省硝礁祥称章笑粧
8FD0	紹肖菖蒋蕉衝裳訟証詔詳象賞醤鉦鍾
8FE0	鐘障鞘上丈丞乗冗剰城場壌嬢常情擾
8FF0	条杖浄状畳穣蒸譲醸錠嘱埴飾

	0 1 2 3 4 5 6 7 8 9 A B C D E F
8C40	掘窟沓靴轡窪熊隈粂栗繰桑鍬勲君薫
8C50	訓群軍郡卦袈祁係傾刑兄啓圭珪型契
8C60	形径恵慶慧憩掲携敬景桂渓畦稽系経
8C70	継茎茣荊蛍計詣警軽頚鶏芸迎鯨
8C80	劇戟撃激隙桁傑欠決潔穴結血訣月件
8C90	倹倦健兼券剣喧圏堅嫌建憲懸拳捲検
8CA0	権牽犬献研硯絹県肩見謙賢軒遣鍵険
8CB0	顕験鹸元原厳幻弦減源玄現絃舷言諺
8CC0	限乎個古呼固姑孤己庫弧戸故枯湖狐
8CD0	糊袴股胡蒐虎誇跨鈷雇顧鼓五互伍午
8CE0	呉吾娯後御悟梧檎瑚碁語誤護醐乞鯉
8CF0	交佼侯候倖光公功効勾厚口向

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9040	拭植殖燭織職色触食蝕辱尻伸信侵唇
9050	娠寝審心慎振新晋森榛浸深申疹真神
9060	秦紳臣芯薪親診身辛進針震人仁刃塵
9070	壬尋甚尽腎訊迅陣靭笥諏須酢図厨
9080	逗吹垂帥推水炊睡粋翠衰遂酔錐錘随
9090	瑞髄崇嵩数枢趨雛据杉椙菅頗雀裾澄
90A0	摺寸世瀬畝是凄制勢姓征性成政整星
90B0	晴棲栖正清牲生盛精聖声製西誠誓請
90C0	逝醒青静斉税脆隻席惜戚斥昔析石積
90D0	籍績脊責赤跡蹟碩切拙接摂折設窃節
90E0	説雪絶舌蝉仙先千占宣専尖川戦扇撰
90F0	栓栴泉浅洗染潜煎煽旋穿箭線

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9440	如尿韮任妊忍認濡禰祢寧葱猫熱年念
9450	捻撚燃粘乃廼之埜嚢悩濃納能脳膿農
9460	覗蚤巴把播覇杷波派琶破婆罵芭馬俳
9470	廃拝排敗杯盃牌背肺輩配倍培媒梅
9480	楳煤狽買売賠陪這蝿秤矧萩伯剥博拍
9490	柏泊白箔粕舶薄迫曝漠爆縛莫駁麦函
94A0	箱硲箸肇筈櫨噸肌畑畠八鉢溌発醗髪
94B0	伐罰抜筏閥鳩噺塙蛤隼伴判半反叛帆
94C0	搬斑板氾汎版犯班畔繁般藩販範釆煩
94D0	頒飯挽晩番盤磐蕃蛮匪卑否妃庇彼悲
94E0	扉批披斐比泌疲皮碑秘緋罷肥被誹費
94F0	避非飛樋簸備尾微枇毘琵眉美

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9140	繊奏腺舛船薦詮賎践選遷銭銑閃鮮前
9150	善漸然全禅繕膳糎噌塑岨措曾曽楚狙
9160	疏踈礎祖租粗素組蘇訴阻遡鼠僧創双
9170	叢倉喪壮奏爽宋層匝惣想捜掃挿掻
9180	操早曹巣槍槽漕燥争痩相窓糟総綜聡
9190	草荘葬蒼藻装走送遭鎗霜騒像増憎臓
91A0	蔵贈造促側則即息捉束測足速俗属賊
91B0	族続卒袖其揃存孫尊損村遜他多太汰
91C0	詑唾堕妥惰打柁舵楕陀駄騨体堆対耐
91D0	岱帯待怠態戴替泰滞胎腿苔袋貸退逮
91E0	隊黛鯛代台大第醍題鷹滝瀧卓啄宅托
91F0	択拓沢濯琢託鐸濁諾茸凧蛸只

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9540	鼻柊稗匹疋髭彦膝菱肘弼必畢筆逼桧
9550	姫媛紐百謬俵彪標氷漂瓢票表評豹廟
9560	描病秒苗錨鋲蒜蛭鰭品彬斌浜瀕貧賓
9570	頻敏瓶不付埠夫婦富冨布府怖扶敷
9580	斧普浮父符腐膚芙譜負賦赴阜附侮撫
9590	武舞葡無部封楓風葺蕗伏副復幅服福
95A0	腹複覆淵弗払沸仏物鮒分吻噴墳憤扮
95B0	焚奮粉糞紛雰文聞丙併兵塀幣平弊柄
95C0	並蔽閉陛米頁僻壁癖碧別瞥蔑箆偏変
95D0	片篇編辺返遍便勉娩弁鞭保舗鋪圃捕
95E0	歩甫補輔穂募墓慕戊暮母簿菩倣俸包
95F0	呆報奉宝峰峯崩庖抱捧放方朋

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9240	叩但達辰奪脱巽竪辿棚谷狸鱈樽誰丹
9250	単嘆坦担探旦歎淡湛炭短端箪綻耽胆
9260	蛋誕鍛団壇弾断暖檀段男談値知地弛
9270	恥智池痴稚置致蜘遅馳築畜竹筑蓄
9280	逐秩窒茶嫡着中仲宙忠抽昼柱注虫衷
9290	註酎鋳駐樗瀦猪苧著貯丁兆凋喋寵帖
92A0	帳庁弔張彫徴懲挑暢朝潮牒町眺聴脹
92B0	腸蝶調諜超跳銚長頂鳥勅捗直朕沈珍
92C0	賃鎮陳津墜椎槌追鎚痛通塚栂掴槻佃
92D0	漬柘辻蔦綴鍔椿潰坪壺嬬紬爪吊釣鶴
92E0	亭低停偵剃貞呈堤定帝底庭廷弟悌抵
92F0	挺提梯汀碇禎程締艇訂諦蹄逓

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9640	法泡烹砲縫胞芳萌蓬蜂褒訪豊邦鋒飽
9650	鳳鵬乏亡傍剖坊妨帽忘忙房暴望某棒
9660	冒紡肪膨謀貌貿鉾防吠頬北僕卜墨撲
9670	朴牧睦穆釦勃没殆堀幌奔本翻凡盆
9680	摩磨魔麻埋妹昧枚毎哩槙幕膜枕鮪柾
9690	鱒桝亦俣又抹末沫迄侭繭麿万慢満漫
96A0	蔓味未魅巳箕岬密蜜湊蓑稔脈妙粍民
96B0	眠務夢無牟矛霧鵡椋婿娘冥名命明盟
96C0	迷銘鳴姪牝滅免棉綿緬面麺摸模茂妄
96D0	孟毛猛盲網耗蒙儲木黙目杢勿餅尤戻
96E0	籾貰問悶紋門匁也冶夜爺耶野弥矢厄
96F0	役約薬訳躍靖柳薮鑓愉愈油癒

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9340	邸鄭釘鼎泥摘擢敵滴的笛適鏑溺哲徹
9350	撤轍迭鉄典填天展店添纏甜貼転顛点
9360	伝殿澱田電兎吐堵塗妬屠徒斗杜渡登
9370	菟賭途都鍍砥砺努度土奴怒倒党冬
9380	凍刀唐塔塘套宕島嶋悼投搭東桃梼棟
9390	盗淘湯涛灯燈当痘祷等答筒糖統到董
93A0	蕩藤討謄豆踏逃透鐙陶頭騰闘働動同
93B0	堂導憧撞洞瞳童胴萄道銅峠鴇匿得徳
93C0	涜特督禿篤毒独読栃橡凸突椴届鳶苫
93D0	寅酉瀞噸屯惇敦沌豚遁頓呑曇鈍奈那
93E0	内乍凪薙謎灘捺鍋楢馴縄軟難
93F0	汝二尼弐迩匂賑肉虹廿日乳入

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9740	諭輸唯佑優勇友宥幽悠憂揖有柚湧涌
9750	猶猷由祐裕誘遊邑郵雄融夕予余与誉
9760	輿預傭幼妖容庸揚揺擁曜楊様洋溶熔
9770	用窯羊耀葉蓉要謡踊遥陽養慾抑欲
9780	沃浴翌翼淀羅螺裸来莱頼雷洛絡落酪
9790	乱卵嵐欄濫藍蘭覧利吏履李梨理璃痢
97A0	裏裡里離陸律率立葎掠略劉流溜琉留
97B0	硫粒隆竜龍侶慮旅虜了亮僚両凌寮料
97C0	梁涼猟療瞭稜糧良諒遼量陵領力緑倫
97D0	厘林淋燐琳臨輪隣鱗麟瑠塁涙累類令
97E0	伶例冷励嶺怜玲礼苓鈴隷零霊麗齢暦
97F0	歴列劣烈裂廉恋憐漣煉簾練聯

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9840	蓮連練呂魯櫓炉賂路露労婁廊弄朗楼
9850	榔浪漏牢狼篭老聾蝋郎六麓禄肋録論
9860	倭和話歪賄脇惑枠鷲亙亘鰐詫藁蕨椀
9870	湾碗腕
9880	
9890	弋
98A0	丐丕个丱丶并丿乂乖乘亂亅豫事舒弐
98B0	于亞亟一亢亰亳亶从仍仄仆仂仗仞伃
98C0	仟价伉佚估佛佝佗佇佶侈侏侘佻佩佰
98D0	侑佯來侖儘俔俟俎俘俛俑俚俐俤俥倚
98E0	倨倔倪倥倯倅俸倡倩倬倖倂倘倆倕假
98F0	會偕偺偈做偖偬偸傀傚傅傴傲

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9C40	廖廣廝廚廬廠廡廨廩廬廱廳廰廴廸廾
9C50	弃弉彝彜弋弍弓弩弭弸彁彈彌彎弯弔
9C60	彙彗彙彡彭彳彷徃徂彿徊很徑徇従徙
9C70	徘徠徨徭徼忖忻忤忸忱忝悳忿怡恠
9C80	怙怐怩怎怱怛怕怫怦怏怺恚恁恪恷恟恊
9C90	恊恆恍恣恃恤恂恬恫恙悁悍惧悃悚悄
9CA0	悛悖悗悒悧悋惡悸惠惴悴悽惆悵惘悸
9CB0	惱惲惹惶惹惻惴悩惶惚惻悩慇愎慇慊
9CC0	慈愡慊愿愼愬愴愽慂慊慳慷慘慙慚慈
9CD0	慴慯慥慱慟慝慷慵慊慼慇慼慷憧憮憑
9CE0	憫憺懃懋應懷懈懃懆憺懋罹懍憾懴懶
9CF0	戁戇戉戀懽戄懋戈戊戌戍戟戛戞戡

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9940	僉僊傳僂僖僞僥僭僣僮價僵儉儁儂儖
9950	儕儔儚儡儺儷儼儻儿兀兒兌兔兢競兩
9960	兪兮冀冂冏冑冓冕冖冤冦冢冩冪冫决
9970	冱冲冰况冽凅凉凛几處凩凭
9980	凰凵函刋刋刎刧刪刮刳刹刷剋剌剃剏剽
9990	剞剔剪剩剳剿剽剣剱劔劒剱劈劑辨辦
99A0	劬劭劼劵勁勍勗勞勣勦飭勠勳勵勸勹
99B0	匆匈甸匍匐匏匕匚匣匯匱匳匸區卆卅
99C0	丗卉卍凖卞卩卮夘卻卷厂厖厠厦厥厮
99D0	厰厶參簒雙叟曼燮叮叨叭叺吁吽呀听
99E0	吭吼吮吶吩吝呎咏呵咎呟呱呷呰咒呻
99F0	咀呪呫呷呴呿呰咸哇咬哄哈咨

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9D40	戞戡截戮戰戲戳扁扎扞扣扛扠扨扼抂
9D50	抉找抒抓抖拔抃抔拗拑抻拯拾拴挈拳拆
9D60	拜拌拊拂拇抛拉挌拮拱挧挂挈拯拵捐
9D70	挾捍搜捏掖掎掀掫捶掣掏掉掟掵捫
9D80	捩掾揩揀揆揣揉插揶揄搖搴搆搓搦搶
9D90	攝搗搨搏摧摯搶摞撳撕撓撥撩撈撼據
9DA0	擒擋撙撻擘擂擱擧舉擠擡抬擣擯攬擶
9DB0	擴擲擺攀擥擯攜攅攤攣攫攴攵攷收攸
9DC0	畋效敖敕敍敘敞敝敲數斂斃變斛斟斫
9DD0	斷旆旋旁旄旌旒旛旙无旡旱杲昊昃昈
9DE0	杳昵昶昴昜晏晄晉晁晞晝晤晧晨晟晢
9DF0	晰暃暈暎暉暄暘暝曁暹曉曠曙

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9A40	咫哂咤唹哽哮哦唏唔哽哮哭哺哢唶唸
9A50	唷唧唾售啜啅啖啗唸唵唼唧喨喀喝喊喟
9A60	啻啾喘喞單啼喃喩喇喨嗚嗅嗟嗄嗜嗝嗑
9A70	嗔嘔嗷嘖嗾嗽嘛嗹噎噐營嘴嘶嘲嘸
9A80	噫噤噤噬噪噣噙噠噌噭噲噸噮噱噯噻
9A90	噂噶嚏噂噁噦噥噲囗囤圇囫圊囵圇圈
9AA0	國圍圓團圖嗇圜圦圩圬坁坎圻址坏圩垂
9AB0	垡坡垹垉垓垠垳垤垪垙埃埆埔埒埓堊
9AC0	埡埤堋堙堝塲堡塢塋塰毀塒堐塹墅墹
9AD0	墟墫墺壞墻墸墮壅壓壑壗壙壘壜壥壞
9AE0	壟壯壺壹壻壼壽夂夊夐夛梦夥夬夭夲
9AF0	夸夾奇奕奐奎奚奘奢奩奧奬奩

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9E40	曄皹曖曚曠皦曦曩曰曳曷朏朖朦朧
9E50	霸朮朿朶杁朸杷杙杩杞杠杙杣杤枉杰枩
9E60	杼杪枌枋枦枡枅柯柺柬枳柩枸柤柞
9E70	柝柢柮枹桎柼柧桁桄栖桎栩柧栲桉桍
9E80	梳栫桙档桷桿梟梏梭梔條梆桾棡棹棧棔
9E90	棼梨棪椏椁棓棊棬棘椢棒椑棚椌椎棍椵
9EA0	棧棕榠榔椄棗棣椥棹棠棯椨椏楫楔楝
9EB0	楡楹楴楛椸楩楔楝楷楛楂楹楸楑椰橡楙楞
9EC0	楝榛楳榲榮槐榿槓槓槙槎槧槠槭榱槲槮
9ED0	樻樫槫槟榕榴槢樂樛樔樒櫁槾樻樾樹槧
9EE0	樅橐橘櫪櫟槫樊樒櫁櫂樣檬櫥櫝櫃檻櫑
9EF0	欅欐檐檣橈樸檎檐檻檠檄檢檣

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9B40	奸妁妝佞佼妞妲姆姨姜妍妘姚娥娟娑
9B50	娜娉婀婀婬婉娵娶婢婪媚媚婿婚婢婦媽
9B60	媽嫗嫦嫩嫖嫻嫻嬌嬋嬖嬲嫐嬪嬶嬾孃
9B70	孀孀孑孕孚孛孥孩孰孳孵學孜孺宀
9B80	它宦宸寃寇寉寐寤實寢寞寥寫寰寶寳
9B90	寿尌將專對尓尠尢尩尪尹尻屆屎屓屘屜
9BA0	屝屠屢屮屺屻屹屾岌岑岔岜岝岨岫岱岷峁
9BB0	峇峋峒峙峩峽峿峭峪峯峱岷崁崆崇崋崌
9BC0	崑崔崢崚崙崘嵌嵎嵋嵌嵬嵳嵵嵫嵴嶁嶂
9BD0	嶄嶇嶋嶙嶝嶞嶠嶡嶢嶧嶪嶬嶮嶰嶲嶼巛巫已
9BE0	巵帋帚帙帑帛帶帷幄幃幀幎幗幔幟幢
9BF0	幤幫幵幷幺麼广庠廁廂廈廏廐廖

	0 1 2 3 4 5 6 7 8 9 A B C D E F
9F40	鑿鑼鑑鑵鑺钁镽閂閇閊閌閍閎閐閑閒間閘閙閠閡櫻欅
9F50	蘘欄灤欖鬱欟欸欷盜欹飲歇歃歉歐歙
9F60	歟歛歕歡歸歹歿殀殄殃殍殘殕殞殤殪
9F70	殫殯殲殳殷殼毆毋毓毟毬毫毳毯
9F80	麾氈氓气氛氤氣汞汕汢汪沂沍沚沁沛汾
9F90	汨汳沒沐泄泱泓沽泗泅泝沮沱沽沼泉泊
9FA0	泛泯泙泪洩衍洶洫洽洸洙洵洳洒洌浣
9FB0	涓浤浚浹浙涎涕濤涅淹渕渊涵淇淦涸
9FC0	淆淬淞淌淨淒淅淺淙淤淥淪淮渭湮渟
9FD0	渙湲湟渾渣湫湮渠渥湍渟湃渺湎渤滿渝
9FE0	游渫溪溘滉溷滓溽溯滄溲滔滕滷溥滂
9FF0	滢滎滧灌灄滾滻滲漱滯漲滌

	0 1 2 3 4 5 6 7 8 9 A B C D E F
E040	漾漓滷澆潺潸澁澀潯潛濳潭濊濘濤濠濮濯濱濺
E050	濬濼濡濮濞濯澹濜濠濉濬濵濴濶濡濱濴濛
E060	濮濛瀉瀋濺瀑瀁瀏瀘瀛瀚瀋瀝瀘瀟瀰
E070	瀾瀲灑灣炙炒炯炯炬炸炳炮炯烟烝
E080	烙焉烽焜焙煥煕熈煦煢煌煖煬熏燻燼燹
E090	燽熬熱爛爂爇熾燔燖燠燬燧燵燼燹
E0A0	燿爍爐爛爨爭爬爰爲爻爿爿牀牆牋牘
E0B0	牴牾犂犁犇犒犖犢犧犹犲狃狆狄狎狒狨
E0C0	狯狷狡狭狷倏猗猊猜猖猝猴猯猩猥猾
E0D0	獎獏默獗獪獨獰獸獵獻獺珈玳珎玻珀
E0E0	珥珮珞璢琅瑯琥珶琲琺瑕瑾瑙瑁瑜
E0F0	瑩瑰瑣瑪瑶瑾璋璞璧瓊瓏瓔珱

	0 1 2 3 4 5 6 7 8 9 A B C D E F
E440	隋腆脾腓腑胼腱腮腥腦腴膃膈膊膀膂
E450	膠膕膨膛膠膓膪膰膵膾膫膘臂臀膺臉
E460	臍臑臙臘臈臚臟臟臧臺臻臾臯臺與
E470	舊舍舐舖舩舫舸舳艀艙艘艚艟艤
E480	艦艪艟艫艸艾芍芒芫芟芻芬苡
E490	苣苟苒苴苳苺莓范荏苧荼苞茆苜茉苣茵
E4A0	茴茖茲茱荀茹荐荅茯茫茗荔荛莅莚莪莟
E4B0	莢莖莫莎莇莊茶莵荳荵莠莉莨菴萓菫
E4C0	菎菽萃菘蓁普菩萇菠菲萍勉萌葎葫葭
E4D0	葯葆葬葱葭萿萸萩葛葽葚葩葆萬葯葹
E4E4	萼葥葢蒹葭荺莅薈蓊蓐蓑蓆蓖蔾蔡
E4F0	蓿蓴蔗蔘蔬蔟蔕蔔蔓蔚蕀蕁藁蕙

	0 1 2 3 4 5 6 7 8 9 A B C D E F
E140	瓠瓣瓧瓩瓮瓲瓰瓱瓸瓷甄甃甅甌甎甍
E150	甕甓甝甦甬甼畄畚畔畖畛畆畤畧畭畸當
E160	畺畹畸當疆疇畴疊疉疂疔疚疝疥疣痂疳
E170	疽痃疵疽疸疼疱痍痊痒痙痣痎痾痿
E180	瘋瘁瘐瘖瘧瘠瘼瘟瘧瘭瘰瘿瘵瘻瘤瘴
E190	瘵瘰瘺瘻瘼癀癁癆癇癈癉癌癘癙癜癠癡
E1A0	癤癸發皀皃皈皋皎皖皓皙皚皰皴皺皸
E1B0	皻盂盍盖盒盞盡盥盧盪蘆盻眈眇眄眩眴
E1C0	眵眞眥眦眛眷眸睞睡睫睛睥睿睽睾睹
E1D0	瞎瞋瞑瞠瞞瞰瞶瞹瞿瞼瞽瞻瞼矇矍矗矚
E1E1	矜矣矮矼砌砒礦砠礪砨碎砒礬砦硼碚碌
E1F0	碣碵碪磯磧磭磔碾碼磅磊磬

	0 1 2 3 4 5 6 7 8 9 A B C D E F
E540	蕚蘂蓬猶藍薙薈薑劇蘪蘭薔薛藪薇薜
E550	蕷蕾薇藉薺藏薹虢稿藝藥藜鵲蘊蘓蘋
E560	藾藺藘龍鮮穫蘿虎虒虔號虧虱蚓蚣蚩
E570	蚪蚋蚌蚶蚯蛄蛆蛉蠣蛔蛞蛩蛬蛟蛛蛯蜒蛹
E580	蛻蛸蜷蜿蜆蜈蜑蛻蜉蝣蜍蛹蜊蜴蜘
E590	蜷蜻蜥蜩蜚蝠蝟蝸蝌蝎蝎蝴蝗蝨蝮蝙蝓
E5A0	蝣蝪蠅螢螟螂螯蟋螽蟀蟐雖螫蟄螳蟇
E5B0	蟆螻蟯蟲蟠蠏蠍蟾蠁蠑蠕蠡蠟蠣蟷蠱
E5C0	蠱蠻蠶蠹蠧衊衂衒衙衞衢衫袁衾袞
E5D0	衵衼袵袷袂袗袒袮袍袤袰袿袱袴
E5E5	裔裘裟裙裝裹褂裼裴裨裲褄褌褊褓
E5F0	褫褥褪褶褸褽褾襁襃襄褻褶褸襌褝襠襞

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
E240	礄	磚	礙	礎	礒	礫	礙	礬	礫	祀	祠	祗	祟	祚	祕	
E250	祓	祺	祿	禊	禝	禧	齋	禪	禮	禳	禹	禺	秉	秕	秧	秬
E260	秡	秣	稈	稍	稘	稙	稞	稟	稱	稻	稾	稷	穃	穗	穉	
E270	穡	穢	穩	龝	穵	穽	竆	窗	窕	窘	窖	窗	竈	窘		
E280	竇	竅	竄	窿	邃	竇	竊	竍	竚	竝	竪	竦	竭	端	竴	竽
E290	竿	笁	笂	笄	笆	笊	笎	笏	笐	笑	笔	笘	笙	笛	笝	笞
E2A0	笠	笡	笤	笥	符	笩	笭	笮	笱	笳	笵	笶	笹	笻	笽	笿
E2B0	筀	筁	筂	筃	筄	筅	筆	筈	筊	筍	筎	筑	筒	筓	答	筕
E2C0	策	筗	筘	筙	筚	筛	筜	筝	筞	筟	筠	筡	筢	筣	筤	筥
E2D0	筦	筧	筨	筩	筪	筫	筬	筭	筮	筯	筰	筱	筲	筳	筴	筵
E2E2	籵	籺	籽	粀	粁	粂	粃	粄	粅	粆	粇	粈	粉	粊	粋	粌
E2F0	粍	粎	粏	粐	粑	粒	粓	粔	粕	粖	粗	粘	粙	粚	粛	粜

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
E640	禍	禐	禑	禒	禓	禔	禕	禖	禗	禘	禙	禚	禛	禜	禝	禞
E650	禟	禠	禡	禢	禣	禤	禥	禦	禧	禨	禩	禪	禫	禬	禭	禮
E660	禯	禰	禱	禲	禳	禴	禵	禶	禷	禸	禹	禺	离	禼	禽	禾
E670	秀	秂	秃	秄	秅	秆	秇	秈	秉	秊	秋	秌	秎	秏	秐	秒
E680	秓	秔	秕	秖	秗	秘	秙	秚	秛	秜	秝	秞	租	秠	秡	秢
E690	秣	秤	秥	秦	秧	秨	秩	秪	秫	秬	秭	秮	积	秱	秲	秳
E6A0	秴	秵	秶	秷	秸	秹	秺	秼	秽	秾	秿	稀	稁	稂	稃	稄
E6B0	稅	稆	稇	稈	稉	稊	程	稌	稍	税	稏	稐	稑	稒	稓	稔
E6C0	稕	稖	稗	稘	稙	稚	稛	稜	稝	稞	稟	稠	稡	稢	稣	稤
E6D0	稥	稦	稧	稨	稩	稪	稫	稬	稭	種	稯	稰	稱	稲	稳	稴
E6E6	赳	趁	趂	趃	趄	超	趆	趇	趈	趉	越	趋	趌	趍	趎	趏
E6F0	踔	踕	踖	踗	踘	踙	踚	踛	踜	踝	踞	踟	踠	踡	踢	踣

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
E340	紂	紜	紕	紖	紗	紘	紙	級	紛	紜	紝	紞	紟	素	索	紡
E350	紣	紤	紥	紦	紧	紨	紩	紪	紫	紬	紭	紮	累	細	紱	紲
E360	紳	紴	紵	紶	紷	紸	紹	紺	紻	紼	紽	紾	紿	絀	終	絁
E370	絃	組	絅	絆	絇	絈	絉	絊	絋	経	絍	絎	絏	結	絑	絒
E380	絓	絔	絕	絖	絗	絘	絙	絚	絛	絜	絝	絞	絟	絠	絡	絢
E390	絣	給	絥	給	絧	絨	絩	絪	絫	絬	絭	絮	絯	絰	統	絲
E3A0	絳	絴	絵	絶	絷	絸	絹	絺	絻	絼	絽	絾	絿	綀	綁	綂
E3B0	綃	綄	綅	綆	綇	綈	綉	綊	綋	綌	綍	綎	綏	綐	綑	綒
E3C0	經	綔	綕	綖	綗	綘	継	続	綛	綜	綝	綞	綟	綠	綡	綢
E3D0	綣	綤	綥	綦	綧	綨	綩	綪	綫	綬	維	綮	綯	綰	綱	網
E3E3	聰	聶	聹	聽	聿	肄	肆	肅	肛	肓	肚	肭	肫	肭	胛	胥
E3F0	胙	胝	胄	胚	胖	脉	胯	胱	脛	脩	脣	脯	腋			

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
E740	蠢	蹉	蹌	蹐	蹈	蹙	蹤	蹠	蹡	蹢	蹣	蹤	蹬	蹭	蹯	蹲
E750	蹴	躁	躇	躊	躋	躍	躏	躐	躑	躒	躓	躔	躕	躖	躗	躘
E760	躙	車	軛	軜	軝	軞	軠	軡	軤	軥	軦	軧	軨	軩	軪	軫
E770	軬	軭	軮	軯	軰	軱	軲	軳	軴	軵	軶	軷	軸	軹	軺	軻
E780	軼	軽	軾	較	辂	辀	辁	辂	较	辄	辅	辆	辇	辈	辉	辊
E790	近	迹	迺	迷	迸	迹	迻	迼	追	迾	迿	退	送	适	逃	逄
E7A0	逅	逆	逇	逈	选	逊	逋	逌	逍	逎	透	逐	逑	递	逓	途
E7B0	逕	逖	逗	逘	這	通	逛	逜	逝	逞	速	造	逡	逢	連	逤
E7C0	逥	逦	逧	逨	逩	逪	逫	逬	逭	逮	逯	逰	週	進	逳	逴
E7D0	逵	逶	逷	逸	逹	逺	逻	逼	逽	逾	逿	遀	遁	遂	遃	遄
E7E7	鈞	鈄	鈔	鈬	鈕	鈑	鈒	鈦	鈏	鈐	鈑	鈔	鈒	鈬	鈕	鈑
E7F0	銜	銖	銓	銛	銜	銛	銹	銷	鍇	鍭	鍪	鍰	鍗	鍠	鍤	鍭

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
E840	錙	錢	錚	錣	錡	錛	錻	鍀	鍁	鍇	鍈	鍉	鍊	鍋	鍌	鍍
E850	鍐	鍪	鍰	鍖	鍺	鍤	鍫	鍬	鍭	鍮	鍯	鍰	鍱	鍲	鍳	鍴
E860	鍵	鑂	鑄	鑆	鑈	鑊	鑌	鑐	鑏	鑒	鑓	鑔	鑕	鑖	鑗	鑘
E870	鑙	鑚	鑛	鑜	鑝	鑞	鑟	鑠	鑡	鑢	鑣	鑤	鑥	鑦	鑧	鑨
E880	閆	閇	閈	閉	閊	開	閌	閍	閎	閏	閐	閑	閒	間	閔	閕
E890	閖	閗	閘	閙	阡	阤	阮	阯	陂	陌	陏	陋	陑	陒	陓	陔
E8A0	陟	陠	陡	陱	陰	陳	陴	陵	陶	陷	陸	陹	険	陻	陼	陽
E8B0	隹	雎	雉	雍	雐	雑	雒	雓	雔	雕	雖	雗	雘	雙	雚	雛
E8C0	雝	雞	雟	雠	雡	離	難	雤	雥	雦	雧	雨	雩	雪	雫	雬
E8D0	雭	雮	雯	雰	雱	雲	雳	雴	雵	零	雷	雸	雹	雺	電	雼
E8E8	鞙	鞚	鞛	鞜	鞝	鞞	鞟	鞠	鞡	鞢	鞣	鞤	鞥	鞦	鞧	鞨
E8F0	頍	頎	頏	預	頑	頒	頓	頔	頕	頖	頗	領	頙	頚	頛	頜

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
E940	顱	顴	顳	颪	颯	颱	颶	飄	飃	飆	飩	飫	餃	餉	餒	餔
E950	餘	餡	餝	餞	餤	餠	餬	餮	餽	餾	饂	饉	饅	饐	饋	饑
E960	饒	饌	饕	馗	馘	馥	馭	馮	馼	駟	駛	駝	駘	駑	駭	駮
E970	駱	駲	駻	駸	騁	騏	騅	駢	騙	騫	騷	驅	驂	驀	驃	
E980	騾	驕	驍	驛	驗	驟	驢	驥	驤	驩	驫	驪	骭	骰	骼	髀
E990	髏	髑	髓	體	髞	髟	髢	髣	髦	髯	髫	髮	髴	髱	髷	髻
E9A0	鬆	鬘	鬚	鬟	鬢	鬣	鬥	鬧	鬨	鬩	鬪	鬮	鬯	鬲	魄	魃
E9B0	魏	魍	魎	魑	魘	魴	鮓	鮃	鮑	鮖	鮗	鮟	鮠	鮨	鮴	鯀
E9C0	鯊	鮹	鯆	鯏	鯑	鯒	鯣	鯢	鯤	鯔	鯡	鰺	鯲	鯱	鯰	鰕
E9D0	鰔	鰉	鰓	鰌	鰆	鰈	鰒	鰊	鰄	鰮	鰛	鰥	鰤	鰡	鰰	鱇
E9E9	鰲	鱆	鰾	鱚	鱠	鱧	鱶	鱸	鳧	鳬	鳰	鴉	鴈	鳫	鴃	鴆
E9F0	鴪	鴦	鶯	鴣	鴟	鵄	鴕	鴒	鵁	鴿	鴾	鵆	鵈	鵝	鵞	鵤

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
EA40	鵝	鶩	鵤	鵑	鵐	鵙	鵲	鶉	鶇	鶫	鵺	鶚	鶤	鶩	鶲	鶲
EA50	鷄	鷁	鶻	鶸	鶺	鷆	鷏	鷂	鷙	鷓	鷸	鷦	鷭	鷯	鷽	鸚
EA60	鸛	鸞	鹵	鹹	鹽	麁	麈	麋	麌	麒	麕	麑	麝	麥	麩	麸
EA70	麪	麭	靡	黌	黎	黏	黐	黔	黜	點	黝	黠	黥	黨	黯	
EA80	黴	黶	黷	黹	黻	黼	黽	鼇	鼈	皷	鼕	鼡	鼬	鼾	齊	齒
EA90	齔	齣	齟	齠	齡	齦	齧	齬	齪	齷	齲	齶	龕	龜	龠	堯
EAA0	槇	遙	瑤													
EAB0																
EAC0																
EAD0																
EAEA																
EAF0																

7-4 Taiwanese Language Codes

	0 1 2 3 4 5 6 7 8 9 A B C D E F
A440	一乙丁七乃九了二人儿入八几刀刁力
A450	匕十卜又三下丈上丫丸凡久么也乞于
A460	亡兀刃勺千叉口土士夕大女子孑孓寸
A470	小尢尸山川工己已巳巾干廾弋弓才
A480	
A490	
A4A0	丑丐不中丰丹之尹予云井互五亢仁
A4B0	什仃仆仇仍今介仄元允內六兮公冗凶
A4C0	分切刈勻勾勿化匹午升卅卞厄友及反
A4D0	壬天夫太夭孔少尤尺屯巴幻廿弔引心
A4E0	戈戶手扎支文斗斤方日曰月木欠止歹
A4F0	毋比毛氏水火爪父爻片牙牛犬王丙

	0 1 2 3 4 5 6 7 8 9 A B C D E F
A140	， 、 。 · ； ： ？ ！ … ‥ ， 、 ·
A150	· ； ： ？ ！ ｜ — ｜ — 「 」 （） ︵
A160	） 〔〕 ～ 〔 〕 ⌒ ⌒ 【 】 ﹁ ﹂ 《》 ≪
A170	≫ 〈〉 ﹀ ﹀ 「 」 ┴ ┴ 『 』 ┼ ┼ 0
A180	
A190	
A1A0	0 0 ‘’ “” 〝〞 ˇ 艹 & ✳
A1B0	※ § 〃 ○ ● △ ▲ ◎ ☆ ★ ◇ ◆ □ ■ ▽ ▼
A1C0	㊣ ℅ ¯ ¯ ＿ ﹍ ﹉ ～ ～ ♯ & ＊ +
A1D0	− × ÷ ± √ < > = ≦ ≧ ≠ ∞ ≒ ≡ + −
A1E0	< > ≈ ～ ∩ ∪ ⊥ ∠ ∟ ⊿ log ln ∫ ∮ ∵ ∴
A1F0	♀ ♂ ⊕ ⊙ ↑ ↓ ← → ↖ ↗ ↙ ↘ ∥ ｜ ／

	0 1 2 3 4 5 6 7 8 9 A B C D E F
A240	＼ ／ ＼ $ ￥ 〒 ¢ £ % @ ℃ ℉ $ ％ ‰ ㎜
A250	㎜ ㎝ ㎞ ㏎ ㎡ ㎥ ㎎ ㎏ ㏄ ° 兙 旺 旺 兙 兙 兙 兙
A260	兙 旺 糎 ▁ ▂ ▃ ▄ ▅ ▆ ▇ ▌ ▌ ▌ ▌ ▌
A270	■ ╋ ╪ ┿ ┥ ┝ ╤ ─ ｜ ｜ ┌ ┐ └ ┘ ╭
A280	
A290	
A2A0	、 ﹀ ＝ ⊢ ⊣ ◢ ◣ ◥ ◤ ○
A2B0	1 2 3 4 5 6 7 8 9 Ⅰ Ⅱ Ⅲ Ⅳ Ⅴ Ⅵ Ⅶ
A2C0	Ⅷ Ⅸ Ⅹ Ⅰ Ⅱ Ⅲ Ⅺ Ⅻ ㄧ 二 三 ㄨ 十 廿 卅 A
A2D0	B C D E F G H I J K L M N O P Q
A2E0	R S T U V W X Y Z a b c d e f g
A2F0	h i j k l m n o p q r s t u v

	0 1 2 3 4 5 6 7 8 9 A B C D E F
A540	世丕且丘主乍乏乎以付仔仕他仗代令
A550	仙仞充兄冉冊冬凹出凸刊加功包匆北
A560	匝仟半卉卡占卯卮去可古右召叮叩叨
A570	叼司叵叫另只史叱台句叭叻四囚外
A580	
A590	
A5A0	央失奴奶孕它尼巨巧左市布平幼弁
A5B0	弘弗必戊打扔扒扑斥旦朮本未末札正
A5C0	母民氏永汁汀汎犯玄玉瓜瓦甘生用甩
A5D0	田由甲申疋白皮皿目矛矢石示禾穴立
A5E0	丞丟乒乓乩亙交亦亥仿伉伙伊伕伍伐
A5F0	休伏仲件任仰仳份企伋光兇兆先全

	0 1 2 3 4 5 6 7 8 9 A B C D E F
A640	共再冰列刑划刎刖劣匈匡匠印危吉吏
A650	同吊吐吁吋各向名合吃后吆吒因回囝
A660	圳地在圭圬圯圩夙多夷夸妄奸妃好她
A670	如妁字存宇守宅安寺尖屹州帆并年
A680	
A690	
A6A0	式弛忙忖戎戌戍成扣扛托收早旨旬
A6B0	旭曲曳有朽朴朱朵次此死氖汝汗汙江
A6C0	池汐汕污汛汍汎灰牟牝百竹米糸缶羊
A6D0	羽老考而耒耳聿肉肋肌臣自至臼舌舛
A6E0	舟艮色艾虫血行衣西阡串亨位住佇佗
A6F0	佞伴佛何估佐佑伽伺伸佃佔似但佣

	0123456789ABCDEF
A340	wxyzΑΒΓΔΕΖΗΘΙΚΛΜ
A350	ΝΞΟΠΡΣΤΥΦΧΨΩαβγδ
A360	εζηθικλμνξοπρστυ
A370	φχψω ㄅㄆㄇㄈㄉㄊㄋㄌㄍㄎㄏ
A380	
A390	
A3A0	ㄐㄑㄒㄓㄔㄕㄖㄗㄘㄙㄚㄛㄜㄝㄞ
A3B0	ㄟㄠㄡㄢㄣㄤㄥㄦㄧㄨㄩ· ˊˇˋ
A3C0	
A3D0	
A3E0	
A3F0	

	0123456789ABCDEF
A740	作你伯低伶余佝佈佚兌克免兵冶冷別
A750	判利刪刨劫助努劬匣即卵吝吭吞吾否
A760	呎吧呆呃吳呈呂君吩告吹吻吸吮吵吶
A770	吠吼呀吱含吟听囪困囤囫坊坑址坍
A780	
A790	
A7A0	均坎圾坐坏圻壯夾妝妒妨妞妣妙妖
A7B0	妍妤妓妊妥孝孜孚孛完宋宏尬局屁尿
A7C0	尾岐岑岔岌巫希序庇床廷弄弟彤形彷
A7D0	役忘忌志忍忱快忸忪戒我抄抗抖技扶
A7E0	抉扭把扼找批扳抒扯折扮投抓抑抆改
A7F0	攻攸旱更束李杏材村杜杖杞杉杆杠

	0123456789ABCDEF
A840	杓杗步每求汞沙沁沈沉沅沛汪決沐汰
A850	沌汨沖沒汽沃汲汾汴沆汶沍沔沘沂灶
A860	灼災灸牢牡牠狄狂玖甬甫男甸皂盯矣
A870	私秀禿究系罕肖肓肝肘肛肚育良芒
A880	
A890	
A8A0	芋芍見角言谷豆豕貝赤走足身車辛
A8B0	辰迂迆迅迄巡邑邢邪邦那酉釆里防阮
A8C0	阱阪阬並乖乳事些亞享京佯依侍佳使
A8D0	佬供例來侃佰併侈佩佻侖佾侏侑佺兔
A8E0	兒兕兩具其典冽函刻券刷刺到刮制剁
A8F0	劾劻卒協卓卑卦卷卸卹取叔受味呵

	0123456789ABCDEF
AC40	拯括拾拴挑挂政故斫施既春昭映昧是
AC50	星昨昱昤曷柿染柱柔某柬架枯柵柩柯
AC60	柄柑枴柚查枸柏柞柳枰柙柢柝柒歪殃
AC70	殆段毒毗氟泉洋洲洪流津洌洱洞洗
AC80	
AC90	
ACA0	活洽派洶洛泵洹洧洸洩洮洵洎洫炫
ACB0	為炳炬炯炭炸炮炤爰牲牯牴狩狠狡玷
ACC0	珊玻玲珍珀玳甚甭畏界畎畋疫疤疥疢
ACD0	疣癸皆皇皈盈盆盃盅省盹相眉看盾盼
ACE0	眇矜砂研砌砍祆祉祈祇禹禺科秒秋穿
ACF0	突竿竽籽紂紅紀紉紇約紆缸美羿耄

	0123456789ABCDEF
A940	咖呸咕咀呻呷咄咒咆呼咐呱呶和咚呢
A950	周咋命咎固垃坷坪坩坡坦坤坼夜奉奇
A960	奈奄奔妾妻委妹妮姑姆姐姍始姓姊妯
A970	妳姒姅孟孤季宗定官宜宙宛尚屈居
A980	
A990	
A9A0	屆岷岡岸岩岫岱岳帘帚帖帕帛帑幸
A9B0	庚店府底庖延弦弧弩往征彿彼忝忠忽
A9C0	念忿怏怔怯怵怖怪怕怡性怩怫怛或戕
A9D0	房戾所承拉拌拄抿拂抹拒招披拓拔拋
A9E0	拈抨抽押拐拙拇拍抵拚抱拘拖拗折抬
A9F0	拎放斧於旺昔易昌昆昂明昀昏昕昊

	0123456789ABCDEF
AD40	耐耍耑耶胖胥胚胃胄背胡胛胎胞胤胝
AD50	致舢苧范茅苣苛苦茄若茂茉苒苗英茁
AD60	苜苔苑苞苓苟苯茆虐虹虻虺衍衫要觔
AD70	計訂訃貞負赴赳趴軍軌述迦迢迪迥
AD80	
AD90	
ADA0	迭迫迤迨郊郎郁郃酋酊重閂限陋陌
ADB0	降面革韋韭音頁風飛食首香乘亳倌倍
ADC0	倣俯倦倥俸倩倖倆值借倚倒們俺倀倔
ADD0	倨俱倡個候倘俳修倭倪俾倫倉兼冤冥
ADE0	冢凍凌准凋剖剜剔剛剝匪卿原厝叟哨
ADF0	唐唁唷哼哥哲唆哺唔哩哭員唉哮哪

	0 1 2 3 4 5 6 7 8 9 A B C D E F
AA40	昇服朋杭枋枕東果杳杷枇枝林杯杰板
AA50	枉松析杵枚料杼杪杲欣武歧歿殀氛泣
AA60	注泳沱泌泥河沽沾沼波沫法泓沸泄油
AA70	況沮泗泅泱沿治泡泛泊沬泯泯泖泠
AA80	
AA90	
AAA0	炕炎炒炊炙爬爭爸版牧物狀狎狙狗
AAB0	狐玩玨玫玳玷甽疝疙疚的盂盲直知矽
AAC0	社祀祁祇祖空穹竺糾罔羌羋者肺肥肢
AAD0	肱股肫肩肴肪肯臥臾舍芳芝芙芭芽芟
AAE0	芹花芬芥芯芸芾芻芭虎虱初表軋迎
AAF0	返近邵邸邱邶采金長門阜陀阿邯附

	0 1 2 3 4 5 6 7 8 9 A B C D E F
AB40	陂佳雨青非亟亭亮信侵侯便俠俑俏保
AB50	促侶俘俟俊俗侮俐俄係俚俎俞侷兗冒
AB60	冑冠剎剃削前剌剋則勇勉勃勁匍南卻
AB70	厚叛咬哀咨哎哉咸咦咳哇哂咽咪品
AB80	
AB90	
ABA0	哄哈咯咫咱咻咩咧咮哨垂型垠垣垢
ABB0	城垮垓奕契奏奎奐姜姘姿姣姨娃姥姪
ABC0	姚姦威姻孩宣宦室客宥封屎屏屍屋峙
ABD0	峒巷帝帥帘幽庠度建弈弭彥很待徊律
ABE0	徇後徉怒思怠急怎怨恍恰恨恢恆恃恬
ABF0	恫恪恤扁拜挖按拼拭持拮拽指拱拷

	0 1 2 3 4 5 6 7 8 9 A B C D E F
B040	虔虹虻蚓蚕蚩蚪蚋蚌蚶蚣蚤衾袁袂衽衩記
B050	訐訖訓訕訌訛訝訥豈豺貂財貢起
B060	躬軒軔軫軱辱送逆迷退迺迴逃追逅迸邕
B070	郡郝郢郪酉酊酋酌釘針釗釜釙閃院陣陡
B080	
B090	
B0A0	陛陝除陘陞隻飢馬骨高鬥鬲鬼乾偺
B0B0	偽停假偃偌做偉健偶偎偕偵側偷偏倏
B0C0	偯偭兜冕凰剪副勒務勘動匐匏匙匿區
B0D0	匾參曇商啪啕啻啄啞啡啃啊唪啾啤啉啁唯
B0E0	啣唸售啜啖啵啶啷唳唔啼啞圈國埡域堅堊堆
B0F0	埠埤基堂堵執培夠奢娶婁婉婦婪婀

	0 1 2 3 4 5 6 7 8 9 A B C D E F
AE40	哪唧唇哽唏圄圊哽埔埋埃堉夏套奘奚
AE50	娑娘娜娟娛娓姬娠娣娩娥娌娉孫屘宰
AE60	害家宴宮宵容宸射屑展屜峭峽峻峪峨
AE70	峰島崁峴差席師庫庭座弱徒徑徐恙
AE80	
AE90	
AEA0	恣恥恐恕恭恩息悄悟悚悍悔悌悅悖
AEB0	扇拳挈拿捎挾振捕捂捆捏捉挺捐挽挪
AEC0	挫挨挹捌效敉料旁旅時晉晏晃晒晌晅
AED0	晁書朔朕朗校核案框桓根桂桔栩梳栗
AEE0	桌桑栽柴桐桀格桃株桅栓栘桁殊殉殷
AEF0	氣氧氨氦氤泰浪涕消涇浦浸海涙涓

	0 1 2 3 4 5 6 7 8 9 A B C D E F
AF40	浬涉浮浚浴浩涌涊浹涅淌浜烊烘烤烙
AF50	烈烏爹特狼狹狽狸狷玆玩珏琉珮珠珪珞
AF60	畔畝畜畚留疾病症疲疳疽疼疹痂疸皋
AF70	皰益盍盎眩真眠眨矩砰砧砸砝破砷
AF80	
AF90	
AFA0	砥砭砠砟砲祕祐祠祟祖神祝祗祚秤
AFB0	秣秧租秦秩秘窄窈站笆笑粉紡紗紋紊
AFC0	素索純紐紕級紜納紙紛缺罟羔翅翁耆
AFD0	耘耕耙耗耽耿胱脂胰脅胭脒胯胸脛脘脈
AFE0	能脊胼胯臭臬舀舐航舫舨般舸茫荒荔
AFF0	荊茸荐草茵茴茱茲茹茶茗荀茱茨荃

	0 1 2 3 4 5 6 7 8 9 A B C D E F
B440	婷婵婿媒媛媧孳孱寒富寓寐尊尋就嵌
B450	嵐嵎嵋巽幅幀幃幀幛幾廊廁廂廄弼彫徨復
B460	循徨惑惡悲悶惠悴愕愣惺愕愾惻惱惲惴惻
B470	愎惶愉愀愒戡戢扉掣掌描揀揩揉揆揖揍
B480	
B490	
B4A0	插揣揉揖揩揮揭揶揸揪揄揚揂揩揜
B4B0	敦敢散斑斐斯普晰晴晶景暑智晾晷曾
B4C0	替期朝棺棕棠棘棗椅棟棵森棧棹棒棲
B4D0	棣棋棍植椒椎棉棚楮棻款欺欽殘殖殼
B4E0	毯氮氧氬港游湔渡渲湧湊渠渥渣減湛
B4F0	湘渤湖渺湮渭渦湯渴湍渺測湃渝渾滋

	0 1 2 3 4 5 6 7 8 9 A B C D E F
B140	媚婢婚婆婊孰寇寅寄寂宿密尉專將屠
B150	屜屏崇嵕嵎嵫嵐崢崑崩崔崙嵯崧崗巢
B160	常帶帳帷康庸庶庵廁張強彗彬彩彫得
B170	徙從徘御徠徜惠患悉悠您惋悴悼悽
B180	
B190	
B1A0	情悻悵惜悼悔惕惆惟悸惚惇戚戛扈
B1B0	掠控捲掖探接捷捧掘措捱掩掉掃掛捫
B1C0	推掄授掙採掬排掏掀捻捩捨捺敝敖救
B1D0	教敗啟敏敘敕敔斜斛斬族旋旌旎晝晚
B1E0	晤晨晦晞曹勗望梁梯梢梓梵桿桶梱梧
B1F0	梗械梃棄梭梆梅桷條梨枭梳棣欲殺

	0 1 2 3 4 5 6 7 8 9 A B C D E F
B240	毫毬氫涎凌淳淙液淡淌淤添淺清淇淋
B250	涯淑涮淞淹涸混淵析淒渚渙淚淫淘淪
B260	深淮淨淆淄涪淬涿淦烹焉焊烽烯爽牽
B270	犁猜猛猖猓猙率琅琊球理現琍瓠瓶
B280	
B290	
B2A0	瓷甜產略畦畢異疏痔痕疵痊痍皎盔
B2B0	盒盛眷眾眼眶眸睛睦睫矸砰票祭移窒
B2C0	窕笠笨笛第符笙笞笮粒粗粕絆絃統絮
B2D0	紹紼絀細紳組累終紲紱紿絆蛘蛩翌翎習
B2E0	耜聊聆脯脣脣脫脩脰脤舂舵舷舶船莎
B2F0	莞莘莩莢莖莽莫莒莊莓莉莠荷荻荼

	0 1 2 3 4 5 6 7 8 9 A B C D E F
B340	莆莧處虎虯虺虹虻虼蚓蚕蚜蚣蚪蚋蚌蚶蚯蛄蛆蛋蛀蛇蛉術衰
B350	袈被袒袖袍袋覓規訪訝訣訥許設訟訛
B360	訢豉豚販責貫貨貪貧貶赦赴趺軛軟這
B370	逍通逗連速逝逐逕逞造透逢逖逛途
B380	
B390	
B3A0	部郭都郵郫郢郴郵郾郿陀陵陳
B3B0	陸陰陴陶陷陬雀雪雩章竟頂頃魚鳥鹵
B3C0	鹿麥麻傢傍傳備傑傀傖傘傚最凱割劃
B3D0	創剩勞勝勛博厥啻喀喧啼喊喝喘喂喜
B3E0	喪喔喇喋喃喳單喟唾喲喚喻喬喱啾喉
B3F0	喫喙圍堯堪場堤堰報堡堝堠壹壺奠

	0 1 2 3 4 5 6 7 8 9 A B C D E F
B540	溉渙渢滑滓渲渾煌煒焚焦焰無然煮焜
B550	牌犄犀猶猥猴猩猛琺琪琳琢琥琵琶琴琯
B560	琛琦琨琺甦畫番痢痛痣痙痘痞痠登發
B570	皖皓皴盜睏短硝硬硯稍稈程稅稀窘
B580	
B590	
B5A0	窗窖童竣等策筆筐筒答筍筋筏筑粟
B5B0	粥絞結絨絕紫絮絲絡給絢絖絞絳絺綉綆綁綏縅繃縉縊
B5C0	臺貼肅脹脛腋腑腎脤腮腹脾腆脯腐腓腴舒舜
B5D0	菩萃菸萍菠菅萋菁華菱菴著萊菰萌菌
B5E0	菽菲菊萸萎菊菜萇菔菟虛蛟蛙蛭蛔蛛
B5F0	蛤蛐蛞街裁裂袱覃視註詠評詞証詁

	0 1 2 3 4 5 6 7 8 9 A B C D E F
B640	詔詛詐詆訴診訶詖象貂貯貼貳貽賁費
B650	賀貴買貶貿貸越超趁跎距跋跚跑跌跛
B660	跆軻軸軼辜逮逵週逸進逶鄂郵鄉郾酣
B670	酥量鈔鈕鈣鈉鈞鈍鈐鈇鈑閔閏開閑
B680	
B690	
B6A0	間閒閎隊階隋陽隅隆陲隈隍雁雅雄
B6B0	集雇雯雲韌項順須飧飪飯飩飲飭馮馭
B6C0	黃黍黑亂傭債傲傳僅傾催傷傻傺僑僥僭剿
B6D0	剷剽募勦勤勢勣匯嗟嗨嗓嗦嗎嗜嗇嗑
B6E0	嗣嗤嗯嗚嗡嗅嗆嗥嗉園圓塞塑塘塗塚
B6F0	塔填塌塭塊塢塒塋奧嫁嫉嫌媾媽媚

	0 1 2 3 4 5 6 7 8 9 A B C D E F
B740	媳媼媲嵩嵯幌幹廉廈弒彙徬微愚意慈
B750	感想愛惹愁愈慎慌慄慍愾愴愧愍愆愷
B760	戡戢搓搾搞搪搭搽搬搏搜搔損搶搖搗
B770	搆敬斟新暗暉暇暈暖暄暘暍會榔業
B780	
B790	
B7A0	楚楷楠楔極椰概楊楨楫楞楓楹榆楝
B7B0	楣楛歇歲毀殿毓毽溢溯滓溶滂源溝滇
B7C0	滅溥滔塗溺溫溽準溜滄滔溪滃漠煎煙
B7D0	煩煤煉照煜煬熙煌煥煖煆煇煨爺牒猷
B7E0	獅猿猾瑯瑚瑕瑟瑞瑁琿瑙瑛瑜當畸瘀
B7F0	瘀瘁瘋瘧瘠瘓瘢瘟瘧瘡瘥盥盤瞎瞌瞑瞋瞠瞰

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B840	睹	睾	瞋	瞌	瞑	瞠	瞞	瞰	瞳	瞽	瞿	矇	矍	矗	矚	矜
B850	確	碌	祺	祿	禁	萬	禽	稜	稚	稠	稔	稟	稞	窟	窠	筷
B860	節	筠	筮	筧	箸	箙	粵	經	絹	綑	綁	綏	縛	置	罩	罪
B870	署	義	羨	群	聖	聘	肆	肄	腱	腰	腸	腹	腮	腸	腫	
B880																
B890																
B8A0			腹	腺	腦	舅	艇	蒂	葷	落	萱	葵	葦	葫	葉	葬	葛
B8B0	萼	萬	葡	董	葩	piece	朝	葆	虞	虜	號	蒲	蜓	蜒	蜈	蝣	蜀	蛾
B8C0	蛻	蜂	蜜	蜆	蜊	蜀	袋	裔	裙	補	裘	裝	裡	裊	裕	裒		
B8D0	覜	解	詫	該	詳	試	詩	詰	誇	詼	詣	誠	話	誅	詭	詢		
B8E0	詮	詬	詹	諉	諗	詵	豹	貌	賊	資	賈	賄	賞	賃	賂			
B8F0	賅	跡	跟	跨	路	跳	躁	跪	跤	跦	躲	較	載	軾	輊			

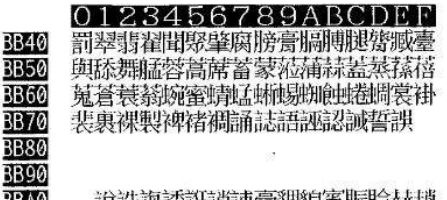
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B940	辟	農	運	遊	道	遂	達	逼	違	遐	遇	遏	過	遍	遑	逾
B950	遁	鄧	鄔	酒	酬	酪	酩	釉	鈷	鉗	鈸	鈽	鉀	鈾	鉛	鉋	鉤	
B960	鉑	鈴	鉉	鉍	迢	鉞	鈿	銅	閘	閂	閹	閾	閼	隕	雍	雋	雉	雒
B970	雷	電	雹	零	靖	靴	靶	預	頑	頓	頁	頊	頌	頓	頃	飴		
B980																		
B990																		
B9A0			飽	飾	馳	駁	馴	髡	鳩	麂	鼎	鼓	鼠	僧	儂	儆	僖	
B9B0	僭	僚	僕	像	僑	僱	僎	僩	兢	凳	劃	劂	慟	厲	奮	厭	嘉	嗾
B9C0	嘛	嘗	嗷	嘓	嘿	嘻	嘍	嘳	嘩	噪	噗	噴	嘴	嘶	嚕	嘰	嚀	圖
B9D0	塵	塾	境	墓	墊	塹	墅	墜	墟	毒	墨	夢	夤	奮	奪	嫡	嫦	
B9E0	嫩	嫗	嫵	嫻	嫦	嫣	寞	寧	寡	寥	實	寨	寤	寮	察	對		
B9F0	屢	嶄	嶇	障	幣	幕	幗	幽	廓	廖	弊	彆	彰	徹	慇			

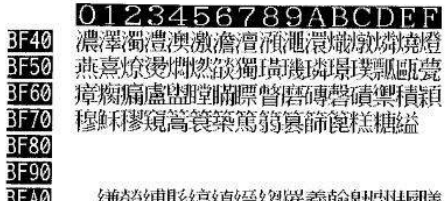
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BA40	慝	態	慵	慢	慣	慟	慚	慘	慵	截	撇	摘	摔	撤	摸	摟		
BA50	摺	摑	摧	摯	摭	摻	敲	斡	旗	旖	暢	暘	暨	暝	榜	榨	榕	
BA60	槁	榮	槓	構	榛	榷	榻	榫	槀	槐	榿	槍	榭	槌	榦	槃	榣	
BA70	歉	歌	氳	漳	演	滾	漓	滴	漩	漾	漠	漬	漏	漂	漢			
BA80																		
BA90																		
BAA0			滿	滯	漆	漱	漸	漲	漣	漕	漫	漯	澈	漪	滬	漁	滲	
BAB0	滷	熔	熙	煙	熊	熄	熒	爾	犒	犖	獄	獐	瑤	瑣	瑪			
BAC0	瑰	瑭	甄	疑	瘧	瘍	瘋	瘉	瘓	盡	監	瞄	瞥	瞰	矯	磁		
BAD0	磔	磐	磧	確	磯	祺	禍	禎	福	禍	種	稱	窪	窩	竭	端	管	箕
BAE0	箋	箾	算	箝	箔	箏	箸	箇	箄	粹	粽	精	綻	綰	綜	綽		
BAF0	綾	綠	緊	綴	網	綱	綺	綢	綿	綵	綸	維	緒	緇	綬			

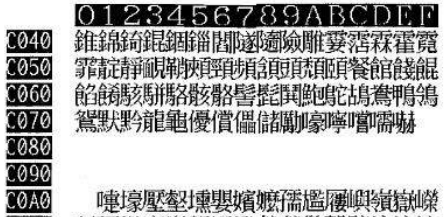
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BC40	劇	劈	劉	劍	劊	勰	厭	嘴	嘔	嘗	嘖	嘸	噪	噤	噓	噫		
BC50	噗	噴	嘶	嘯	嚏	噸	嚇	嘽	墳	墟	增	墩	墮	墜	墩	噥	嚅	嚊
BC60	嬋	嫵	嬉	嬈	寮	寬	審	寫	層	履	嶝	嶔	幢	幟	幡	廢		
BC70	廚	廟	廝	廣	廂	廛	彈	影	德	徵	慶	慧	慮	慝	慕	憂		
BC80																		
BC90																		
BCA0			慝	憑	摩	撻	摹	撞	撲	撈	撐	增	撓	撏	撙	撢	撳	
BCB0	撾	撿	擎	擘	擄	擂	擅	擊	擋	擒	擔	擗	擠	擰	擦	擬	擱	
BCC0	擢	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷		
BCD0	擦	擬	擱	擢	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱		
BCE0	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺		
BCF0	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴		

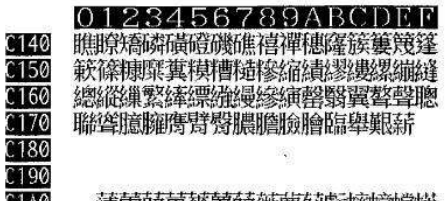
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BD40	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱		
BD50	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺		
BD60	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴		
BD70	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱		
BD80																		
BD90																		
BDA0			擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	
BDB0	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲		
BDC0	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯		
BDD0	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷		
BDE0	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲		
BDF0	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯	擱	擲	擴	擷	擺	擯		

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BE40	轄	適	遮	遨	遭	遷	鄰	鄭	鄧	鄱	酈	醉	醋	醃	鋅	銻		
BE50	銷	鍘	銬	鍋	鋁	銳	銼	鋒	銖	鉾	閂	閒	閎	霄	霆	震		
BE60	霉	靠	鞦	鞋	鞏	頡	頫	頜	颳	養	餓	餒	餘	駝	駐	駟		
BE70	駛	駕	駑	駒	駙	髡	髮	鬌	鬧	魅	魄	魃	魯	鴆	鴉			
BE80																		
BE90																		
BEA0			鴃	齜	齊	齏	墨	齒	儒	儘	儔	儐	儕	冀	冪	凜	劑	
BEB0	劓	勗	嘴	嚳	嚭	嚀	嚐	嚅	嚇	嚏	壁	墾	壇	壅	奮	嬝	嬴	學
BEC0	寰	導	彊	憲	憑	憩	憊	懍	憶	憾	懊	懈	戰	擅	擁	擋	撻	撼
BED0	據	擄	操	擷	擘	擠	擔	擗	擐	擣	擤	擬	擯	攆	擾	攀	擷	攔
BEE0	攜	攄	攏	擺	整	曆	曉	暹	曄	曇	暸	樽	樸	樑	樅	橙	橫	橘
BEF0	樹	機	橾	橢	橐	橋	樵	機	橈	歙	歷	氅	濂	澱	澡			









	0 1 2 3 4 5 6 7 8 9 A B C D E F
CA40	汌奶扮犴犵玎用饥穹网艸竹芎芄艽芴虍
CA50	襾邙邗阢邛阝阢陋阢屹祕俘佢佉体伝
CA60	伾伟侠佟佁佘侅世伊俗闯泼荆即剧勋
CA70	劬匏卣鄙厎厔呔唀呫呔呅呕呖咿吥咋
CA80	
CA90	
CAA0	哗咿昀吨哎咎囤陼闶抵坽垒坨坋埜
CAB0	傘奂蚌妄婀娉娿坋姣姣妩妡宾宅彪尬
CAC0	岍岴岘圾昀岭罡岆峤穴竖粑帗虔庳庠
CAD0	庍庐弁驷彸彶忐忐忭沅忮怢忡忤忣吸
CAE0	忺怚怛惭怀怜昶抖抇抡抾抚抔抳扱抚抵
CAF0	拢拗拑扶抪拎扮攸旰盱昀昊昆杆杓

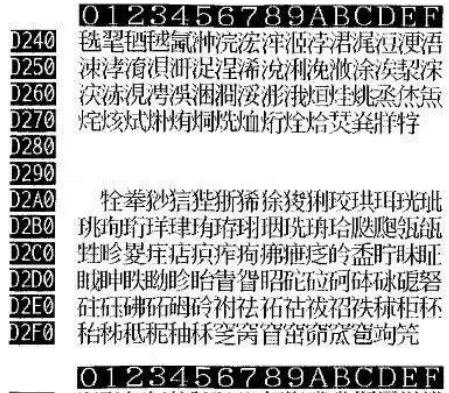
	0 1 2 3 4 5 6 7 8 9 A B C D E F
CB40	杕杚杌杈杷杼杶杌毒氩氚沥汫汫沄冼
CB50	沏沢沍泊沚汭沇沏汛汦汳汴沘灴灺
CB60	牳狌狎狃狆狣狕狂玨玕玓玙玥玎甽虰
CB70	疋卓矽耘肋肓肣肩胯肭肜芊芷芍芑芧
CB80	
CB90	
CBA0	芊芃芄豸迟迆邡邡邴邦邡陼陼陴陬阯
CBB0	阬弗侹佼侅侁侀侗侇倩俱俦俓俪侀侗佪
CBC0	侚俶侙佸侐侑侔俯倗佼侂侷侅侶侴釆冼冷
CBD0	刖刲刳剋朋勘勀匍匼匿匾匯呶呙咁呷哂
CBE0	哳呫哕咀哨哂咽哅唻哶哂呷哂昵咻哂哎唭
CBF0	圉垉圩垹垹圮垹垌堌垹圬垉垣坻坳垄垚

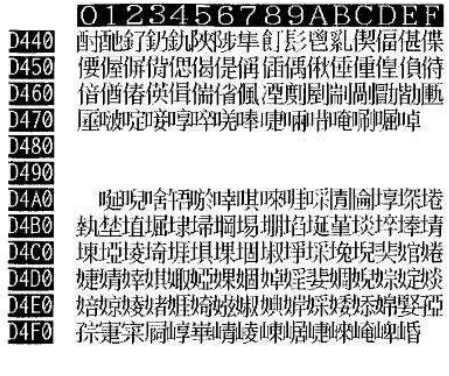
	0 1 2 3 4 5 6 7 8 9 A B C D E F
CC40	坨坽麦帾妹拑姊妠妲姘姆姣妤妣妽妲娏
CC50	婶秈姈媵妵孢琴宓宕屎屇岮峏峘峂峉
CC60	峘岬峽峋峐岭茸弹窖峏峨峪峙峻峨峽
CC70	弼弊弼弧彙徂彾彽恣氖恍怦怙悄悱
CC80	
CC90	
CCA0	恍惆岿怳怛怞怬怢挾怍恟恟拗恢怑怛抱
CCB0	怜蔓屋抗揕拑抾抪拱拊掙掘担捫捫捩
CCC0	抸放肝旒昉畋昄盼叟昊香眲眧吨呤
CCD0	昤舀阮栟栻栿栨秈杶杻枸枻枸栲枌秘
CCE0	栻栭栭栘栿极栊栘吹殀殉笔氯沓淤
CCF0	泫泮浮沂泔涕戚泼渤洞泅洶洗泋沛

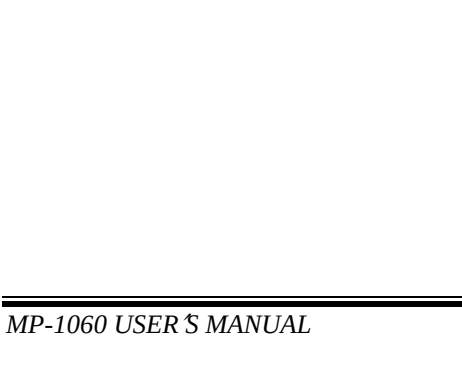
	0 1 2 3 4 5 6 7 8 9 A B C D E F
CD40	溉泝淆烚烶籽泞洞洹泽泇沼泹泄泩渹
CD50	炔炘炅料炆炟烶炖烩畎交牲狈狉狻狂
CD60	狳狒狠狙狌狉玨玵玭玦玠玲玥玕烻珏
CD70	盱畀畓聿疝蚜盱盱盹矸矼砇砑砭砥
CD80	
CD90	
CDA0	砑祂矧秖歹牢笏籽紅耵肴肮哃胷胯胱
CDB0	脞肋艾芫芫芭芷萝芵芋芮笔芼芙芟芨
CDC0	芠芩芠艽芰芍芒虹虺劬虮豕远迂迸迷
CDD0	述迂迭邶两邯阸陷邵郜邮邸阾俍俦俜
CDE0	倀倍倱傒倱傅倀倪侳侳侻侹倩俜俟侹偃
CDF0	剄剋剫勘匾匯庳庫厘晅哽喊哠晅哏

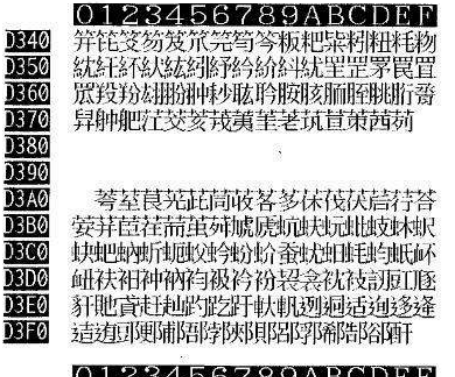
	0 1 2 3 4 5 6 7 8 9 A B C D E F
CE40	啊苟啡啄啤吧唔啕哆冒昔咼喟哓啡啤啕
CE50	按垀垚垣垌垘垴堍垛堕垘埂埕垛垥垃垚壹
CE60	复豢姞姞姮娀娉姝娀娘姎姆姶姮娟娴
CE70	婶娉媚婀娌娶婆宛屑崁峘峘峮峮峒岪
CE80	
CE90	
CEA0	嵒峯峯峇垦崁峽峗峮峒峪峪崦峨嵉
CEB0	帡帢希帛帑屏庳庶庪庞麻弇弯豢洒恋
CEC0	您恔恲恲恍恄恇恆恍恣恄恫恤恁恃惏
CED0	恫恮屑扁搴按挋挎拷挎挜挶挜挶挌拶拶
CEE0	振挀衩揀挦拔挋战殴峤肪昶昡哳昵昜
CEF0	昇晒晌昳晃昝晅昧昜晒胸柁柲桦桋

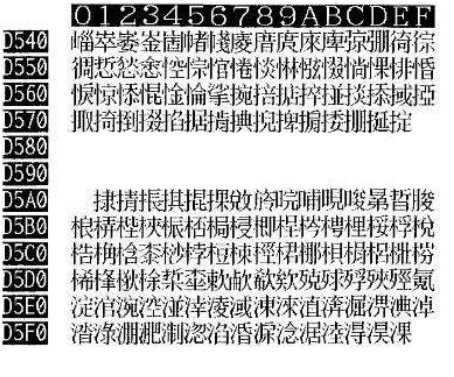
	0 1 2 3 4 5 6 7 8 9 A B C D E F
CF40	桓桱桮栝桉栭梶桐桐栺桉栻栺桐栖
CF50	栻栲桅桐栝柔梟桉栵桉桐牯柦柙栻栓
CF60	柊柃栩梖梖殂殄投毖毘笔氠氧浚湃涯
CF70	洟洼洿洒洊泚洳洄洙洛洚洑洧洟涘
CF80	
CF90	
CFA0	洁涔涇涘湎涌浻涣洇淹沨沥沂灶炟
CFB0	烜炅焉烶炔烽炴泂胖牉炳牳牰栺牳犁昊猜
CFC0	狱狉狟狪狦狸狄狈珈珇珅玭玘玾珌珲珐
CFD0	珚珀玾珒珀琏珊胍瓮筘畇畈疵疟篾盥
CFE0	眨眐眄眩眐毗眇畇眍妖砆砑砒砞砐砌
CFF0	砜耆研砐祊祌祋祆祇枇种耗秖秎窀

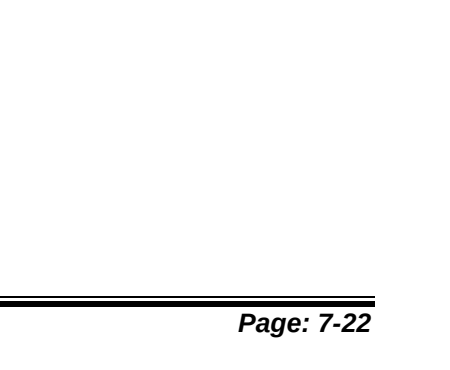


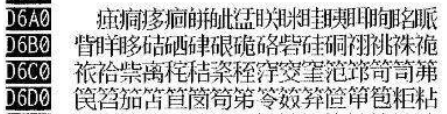


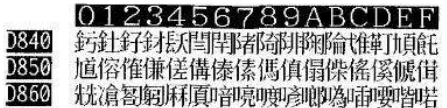


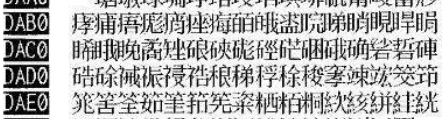


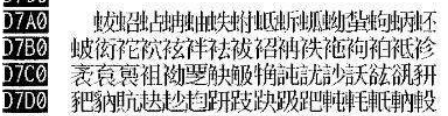


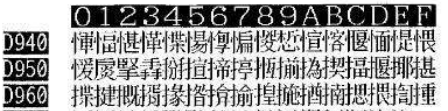


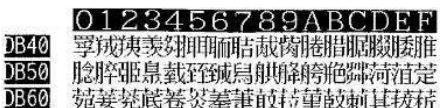


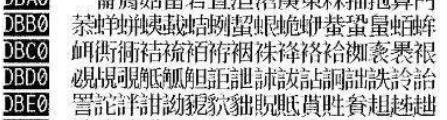


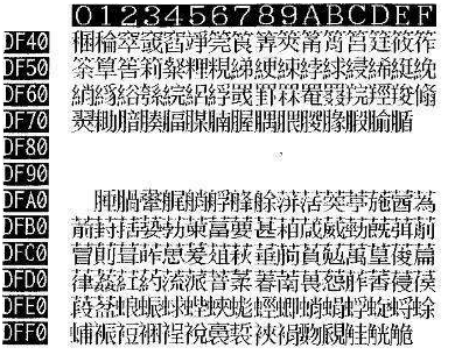


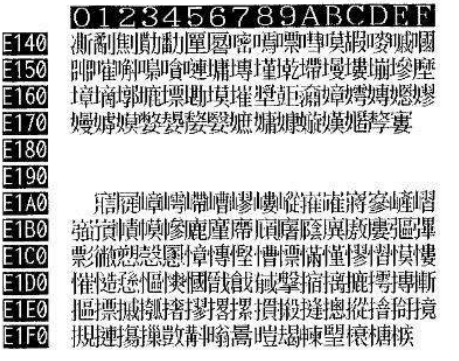


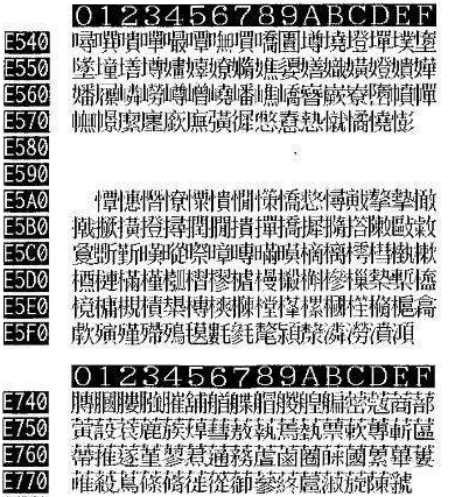


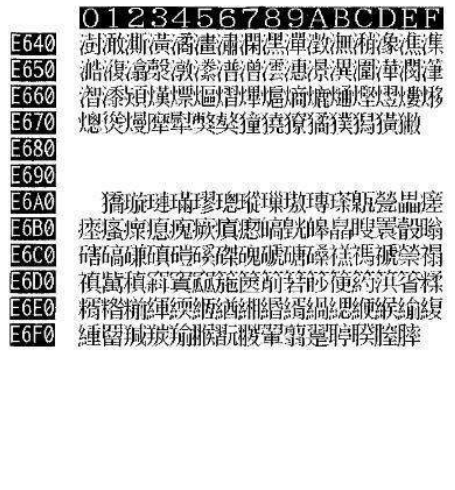


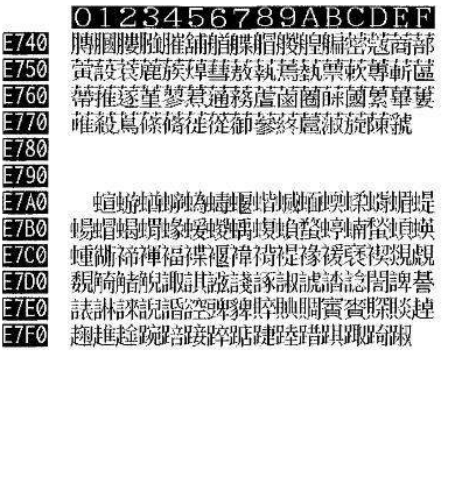












	0 1 2 3 4 5 6 7 8 9 A B C D E F
E840	踉踠踧踔踑踖踘踜踟踣踤踥踦踧蹀蹁蹂蹃蹄蹅蹆蹇蹉蹊蹌
E850	蹐蹓蹔蹕蹖蹗蹙蹛蹜蹝蹞蹠蹡蹢蹣蹤蹥蹧蹨蹩蹪蹫蹬蹭
E860	蹯蹰蹱蹲蹳蹴蹵蹶蹷蹸蹹蹺蹻蹼蹽蹾躀躁躂躃躄躅躆躇
E870	躈躉躊躋躌躍躎躏躐躑躒躓躕躖躗躘躙躚躛躜躝躞躟躠
E880	
E890	
E8A0	躡躢躣躤躥躦躧躨躩躪身躬躭躮躯躰躱躲躳躴躵躶躷
E8B0	躸躹躺躻躼躽躾躿軀軁軂軃軄軅軆軇軈軉車軋軌軍軎
E8C0	軏軐軑軒軓軔軕軖軗軘軙軚軛軜軝軞軟軠軡転軣軤
E8D0	軥軦軧軨軩軪軫軬軭軮軯軰軱軲軳軴軵軶軷軸軹軺
E8E0	軻軼軽軾較軿輀輁輂較輄輅輆輇輈載輊輋輌輍輎輏
E8F0	輐輑輒輓輔輕輖輗輘輙輚輛輜輝輞輟輠輡輢輣輤輥

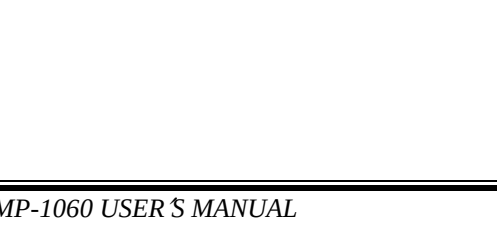
	0 1 2 3 4 5 6 7 8 9 A B C D E F
E940	嚄嚅嚆嚇嚈嚉嚊嚋嚌嚍嚎嚏嚐嚑嚒嚓嚔嚕嚖嚗嚘嚙
E950	嚚嚛嚜嚝嚞嚟嚠嚡嚢嚣嚤嚥嚦嚧嚨嚩嚪嚫嚬嚭嚮嚯
E960	嚰嚱嚲嚳嚴嚵嚶嚷嚸嚹嚺嚻嚼嚽嚾嚿囀囁囂囃囄囅
E970	囆囇囈囉囊囋囌囍囎囏囐囑囒囓囔囕囖囗囘囙囚囜
E980	
E990	
E9A0	懰懱懲懳懴懵懶懷懸懹懺懻懼懽懾懿戁戂戃戄戅
E9B0	戆戇戈戉戊戋戌戍戎戏成我戒戓戔戕或戗战戙戚
E9C0	戛戜戝戞戟戠戡戢戣戤戥戦戧戨戩戫戬戭戮戯戰
E9D0	戱戲戳戴戵戶户戸戹戺戻戼戽戾房所扁扇扈扉手
E9E0	扒扔扖扗扙扚扛扜扝扞扟扠扡扢扣扤扥扦执扨扩
E9F0	扪扫扬扭扮扯扰扱扲扳扴扵扶扷扸批扺扻扼扽抁

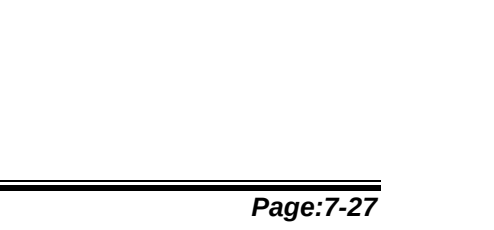
	0 1 2 3 4 5 6 7 8 9 A B C D E F
EA40	灌灏灐灒灔灕灖灗灘灙灚灛灜灝灞灟灠灡灢灣灤灥
EA50	灦灧灨灩灪火火灭灮灯灰灱灲灳灴灵灶灷灸灹灺灻
EA60	灼災灾灿炀炁炂炃炄炅炆炇炈炉炊炋炌炍炎炏炐炑
EA70	炒炓炔炕炖炗炘炙炚炛炜炝炞炟炠炡炢炣炤炥炦炧
EA80	
EA90	
EAA0	鳴鳵鳶鳷鳸鳹鳺鳻鳼鳽鳾鳿鴀鴁鴂鴃鴄鴅鴆鴇鴈
EAB0	鴉鴊鴋鴌鴍鴎鴏鴐鴑鴒鴓鴔鴕鴖鴗鴘鴙鴚鴛鴜鴝
EAC0	鴞鴟鴠鴡鴢鴣鴤鴥鴦鴧鴨鴩鴪鴫鴬鴭鴮鴯鴰鴱鴲
EAD0	鴳鴴鴵鴶鴷鴸鴹鴺鴻鴼鴽鴾鴿鵀鵁鵂鵃鵄鵅鵆鵇
EAE0	鵈鵉鵊鵋鵌鵍鵎鵏鵐鵑鵒鵓鵔鵕鵖鵗鵘鵙鵚鵛鵜
EAF0	鵝鵞鵟鵠鵡鵢鵣鵤鵥鵦鵧鵨鵩鵪鵫鵬鵭鵮鵯鵰鵱

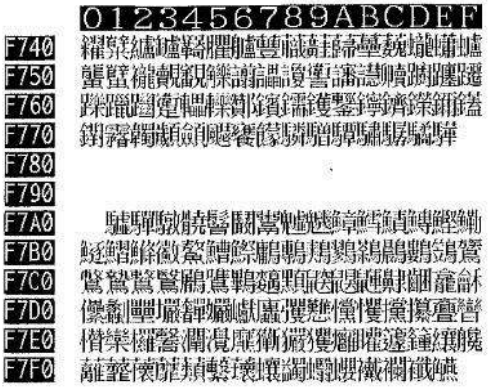
	0 1 2 3 4 5 6 7 8 9 A B C D E F
EB40	鵲鵳鵴鵵鵶鵷鵸鵹鵺鵻鵼鵽鵾鵿鶀鶁鶂鶃鶄鶅鶆鶇
EB50	鶈鶉鶊鶋鶌鶍鶎鶏鶐鶑鶒鶓鶔鶕鶖鶗鶘鶙鶚鶛鶜鶝
EB60	鶞鶟鶠鶡鶢鶣鶤鶥鶦鶧鶨鶩鶪鶫鶬鶭鶮鶯鶰鶱鶲
EB70	鶳鶴鶵鶶鶷鶸鶹鶺鶻鶼鶽鶾鶿鷀鷁鷂鷃鷄鷅鷆鷇
EB80	
EB90	
EBA0	譯譱譲譳譴譵譶護譸譹譺譻譼譽譾譿讀讁讂讃讄讅
EBB0	讆讇讈讉讋讌讍讎讏讐讑讒讓讔讕讖讗讘讙讚讛讜
EBC0	讝讞讟讠计订讣讥讦讧讨让讪讫讬训议讯记讲讳讴
EBD0	讵讶讷许讹论讻讼讽设访诀证诂诃评诅识诇诈诉诊
EBE0	诋诌词诎诏诐译诒诓诔试诖诗诘诙诚诛话诞诟诠
EBF0	诡询诣诤该详诧诨诩诪诫诬语诮误诰诱诲诳说诵

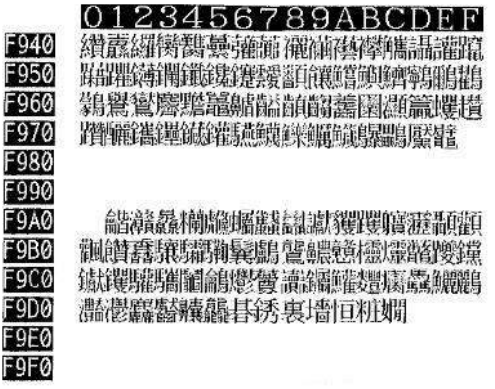
	0 1 2 3 4 5 6 7 8 9 A B C D E F
EC40	鋀鋁鋂鋃鋄鋅鋆鋇鋈鋉鋊鋋鋌鋍鋎鋏鋐鋑鋒鋓鋔鋕
EC50	鋖鋗鋘鋙鋚鋛鋜鋝鋞鋟鋠鋡鋢鋣鋤鋥鋦鋧鋨鋩鋪鋫
EC60	鋬鋭鋮鋯鋰鋱鋲鋳鋴鋵鋶鋷鋸鋹鋺鋻鋼鋽鋾鋿錀錁
EC70	錂錃錄錅錆錇錈錉錊錋錌錍錎錏錐錑錒錓錔錕錖錗
EC80	
EC90	
ECA0	錙錚錛錜錝錞錟錠錡錢錣錤錥錦錧錨錩錪錫錬錭
ECB0	錮錯錰錱録錳錴錵錶錷錸錹錺錻錼錽錾錿鍀鍁鍂
ECC0	鍃鍄鍅鍆鍇鍈鍉鍊鍋鍌鍍鍎鍏鍐鍑鍒鍓鍔鍕鍖鍗
ECD0	鍘鍙鍚鍛鍜鍝鍞鍟鍠鍡鍢鍣鍤鍥鍦鍧鍨鍩鍪鍫鍬鍭
ECE0	鍮鍯鍰鍱鍲鍳鍴鍵鍶鍷鍸鍹鍺鍻鍼鍽鍾鍿鎀鎁鎂鎃
ECF0	鎄鎅鎆鎇鎈鎉鎊鎋鎌鎍鎎鎏鎐鎑鎒鎓鎔鎕鎖鎗鎘鎙

	0 1 2 3 4 5 6 7 8 9 A B C D E F
ED40	鎚鎛鎜鎞鎟鎠鎡鎢鎣鎤鎥鎦鎧鎨鎩鎪鎫鎬鎭鎮鎯鎰
ED50	鎱鎲鎳鎴鎵鎶鎷鎸鎹鎺鎻鎼鎽鎾鎿鏀鏁鏂鏃鏄鏅鏆
ED60	鏇鏈鏉鏊鏋鏌鏍鏎鏏鏐鏑鏒鏓鏔鏕鏖鏗鏘鏙鏚鏛鏜
ED70	鏝鏞鏟鏠鏡鏢鏣鏤鏥鏦鏧鏨鏩鏪鏫鏬鏭鏮鏯鏰鏱
ED80	
ED90	
EDA0	鏲鏳鏴鏵鏶鏷鏸鏹鏺鏻鏼鏽鏾鏿鐀鐁鐂鐃鐄鐅鐆
EDB0	鐇鐈鐉鐊鐋鐌鐍鐎鐏鐐鐑鐒鐓鐔鐕鐖鐗鐘鐙鐚鐛
EDC0	鐜鐝鐞鐟鐠鐡鐢鐣鐤鐥鐦鐧鐨鐩鐪鐫鐬鐭鐮鐯鐰
EDD0	鐱鐲鐳鐴鐵鐶鐷鐸鐹鐺鐻鐼鐽鐾鐿鑀鑁鑂鑃鑄鑅
EDE0	鑆鑇鑈鑉鑊鑋鑌鑍鑎鑏鑐鑑鑒鑓鑔鑕鑖鑗鑘鑙鑚
EDF0	鑛鑜鑝鑞鑟鑠鑡鑢鑣鑤鑥鑦鑧鑨鑩鑪鑫鑬鑭鑮鑯

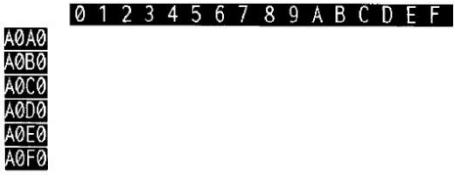


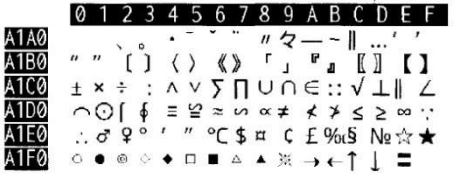


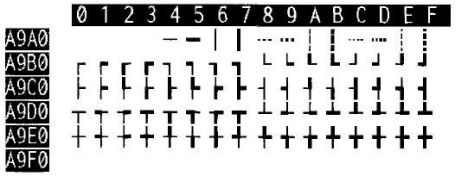


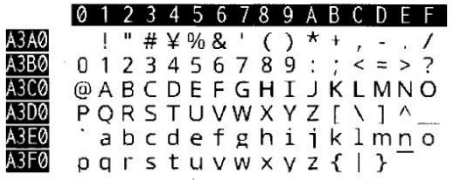


7-5 Simplified Chinese Language Codes









	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A4A0		ぁ	あ	ぃ	い	ぅ	う	ぇ	え	ぉ	お	か	が	き	ぎ	く
A4B0	ぐ	け	げ	こ	ご	さ	ざ	し	じ	す	ず	せ	ぜ	そ	ぞ	た
A4C0	だ	ち	ぢ	っ	つ	づ	て	で	と	ど	な	に	ぬ	ね	の	は
A4D0	ば	ぱ	ひ	び	ぴ	ふ	ぶ	ぷ	へ	べ	ぺ	ほ	ぼ	ぽ	ま	み
A4E0	む	め	も	ゃ	や	ゅ	ゆ	ょ	よ	ら	り	る	れ	ろ	ゎ	わ
A4F0	ゐ	ゑ	を	ん												

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
ACA0																
ACB0																
ACC0																
ACD0																
ACE0																
ACF0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A5A0		ァ	ア	ィ	イ	ゥ	ウ	ェ	エ	ォ	オ	カ	ガ	キ	ギ	ク
A5B0	グ	ケ	ゲ	コ	ゴ	サ	ザ	シ	ジ	ス	ズ	セ	ゼ	ソ	ゾ	タ
A5C0	ダ	チ	ヂ	ッ	ツ	ヅ	テ	デ	ト	ド	ナ	ニ	ヌ	ネ	ノ	ハ
A5D0	バ	パ	ヒ	ビ	ピ	フ	ブ	プ	ヘ	ベ	ペ	ホ	ボ	ポ	マ	ミ
A5E0	ム	メ	モ	ャ	ヤ	ュ	ユ	ョ	ヨ	ラ	リ	ル	レ	ロ	ヮ	ワ
A5F0	ヰ	ヱ	ヲ	ン	ヴ	ヵ	ヶ									

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
ADA0																
ADB0																
ADC0																
ADD0																
ADE0																
ADF0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A6A0		Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο
A6B0	Π	Ρ	Σ	Τ	Υ	Φ	Χ	Ψ	Ω							
A6C0		α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο
A6D0	π	ρ	σ	τ	υ	φ	χ	ψ	ω							
A6E0																
A6F0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
AEA0																
AEB0																
AEC0																
AED0																
AEE0																
AEF0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
A7A0		А	Б	В	Г	Д	Е	Ё	Ж	З	И	Й	К	Л	М	Н
A7B0	О	П	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э
A7C0	Ю	Я														
A7D0		а	б	в	г	д	е	ё	ж	з	и	й	к	л	м	н
A7E0	о	п	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э
A7F0	ю	я														

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
AFA0																
AFB0																
AFC0																
AFD0																
AFE0																
AFF0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B0A0	啊	阿	埃	挨	哎	唉	哀	皑	癌	蔼	矮	艾	碍	爱	隘	
B0B0	鞍	氨	安	俺	按	暗	岸	胺	案	肮	昂	盎	凹	敖	熬	翱
B0C0	袄	傲	奥	懊	澳	芭	捌	扒	叭	吧	笆	八	疤	巴	拔	跋
B0D0	靶	把	耙	坝	霸	罢	爸	白	柏	百	摆	佰	败	拜	稗	斑
B0E0	班	搬	扳	般	颁	板	版	扮	拌	伴	瓣	半	办	绊	邦	帮
B0F0	梆	榜	膀	绑	棒	磅	蚌	镑	傍	谤	苞	胞	包	褒	剥	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B1A0	薄	雹	保	堡	饱	宝	抱	报	暴	豹	鲍	爆	杯	碑	悲	
B1B0	卑	北	辈	背	贝	钡	倍	狈	备	惫	焙	被	奔	苯	本	笨
B1C0	崩	绷	甭	泵	蹦	迸	逼	鼻	比	鄙	笔	彼	碧	蓖	蔽	毕
B1D0	毙	毖	币	庇	痹	闭	敝	弊	必	辟	壁	臂	避	陛	鞭	边
B1E0	编	贬	扁	便	变	卞	辨	辩	辫	遍	标	彪	膘	表	鳖	憋
B1F0	别	瘪	彬	斌	濒	滨	宾	摈	兵	冰	柄	丙	秉	饼	炳	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B2A0	病	并	玻	菠	播	拨	钵	波	博	勃	搏	铂	箔	伯	帛	
B2B0	舶	脖	膊	渤	泊	驳	捕	卜	哺	补	埠	不	布	步	簿	部
B2C0	怖	擦	猜	裁	材	才	财	睬	踩	采	彩	菜	蔡	餐	参	蚕
B2D0	残	惭	惨	灿	苍	舱	仓	沧	藏	操	糙	槽	曹	草	厕	策
B2E0	侧	册	测	层	蹭	插	叉	茬	茶	查	碴	搽	察	岔	差	诧
B2F0	拆	柴	豺	搀	掺	蝉	馋	谗	缠	铲	产	阐	颤	昌	猖	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B3A0	场	尝	常	长	偿	肠	厂	敞	畅	唱	倡	超	抄	钞	朝	
B3B0	嘲	潮	巢	吵	炒	车	扯	撤	掣	彻	澈	郴	臣	辰	尘	晨
B3C0	忱	沉	陈	趁	衬	撑	称	城	橙	成	呈	乘	程	惩	澄	诚
B3D0	承	逞	骋	秤	吃	痴	持	匙	池	迟	弛	驰	耻	齿	侈	尺
B3E0	赤	翅	斥	炽	充	冲	虫	崇	宠	抽	酬	畴	踌	稠	愁	筹
B3F0	仇	绸	瞅	丑	臭	初	出	橱	厨	躇	锄	雏	滁	除	楚	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B8A0	浮	涪	福	袱	弗	甫	抚	辅	俯	釜	斧	脯	腑	府	腐	
B8B0	赴	副	覆	赋	复	傅	付	阜	父	腹	负	富	讣	附	妇	缚
B8C0	咐	噶	嘎	该	改	概	钙	盖	溉	干	甘	杆	柑	竿	肝	赶
B8D0	感	秆	敢	赣	冈	刚	钢	缸	肛	纲	岗	港	杠	篙	皋	高
B8E0	膏	羔	糕	搞	镐	稿	告	哥	歌	搁	戈	鸽	胳	疙	割	革
B8F0	葛	格	蛤	阁	隔	铬	个	各	给	根	跟	耕	更	庚	羹	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B9A0	埂	耿	梗	工	攻	功	恭	龚	供	躬	公	宫	弓	巩	汞	
B9B0	拱	贡	共	钩	勾	沟	苟	狗	垢	构	购	够	辜	菇	咕	箍
B9C0	估	沽	孤	姑	鼓	古	蛊	骨	谷	股	故	顾	固	雇	刮	瓜
B9D0	剐	寡	挂	褂	乖	拐	怪	棺	关	官	冠	观	管	馆	罐	惯
B9E0	灌	贯	光	广	逛	瑰	规	圭	硅	归	龟	闺	轨	鬼	诡	癸
B9F0	桂	柜	跪	贵	刽	辊	滚	棍	锅	郭	国	果	裹	过	哈	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BAA0	骸	孩	海	氦	亥	害	骇	酣	憨	邯	韩	含	涵	寒	函	
BAB0	喊	罕	翰	撼	捍	旱	憾	悍	焊	汗	汉	夯	杭	航	壕	嚎
BAC0	豪	毫	郝	好	耗	号	浩	呵	喝	荷	菏	核	禾	和	何	合
BAD0	盒	貉	阂	河	涸	赫	褐	鹤	贺	嘿	黑	痕	很	狠	恨	哼
BAE0	亨	横	衡	恒	轰	哄	烘	虹	鸿	洪	宏	弘	红	喉	侯	猴
BAF0	吼	厚	候	后	呼	乎	忽	瑚	壶	葫	胡	蝴	狐	糊	湖	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BBA0	弧	虎	唬	护	互	沪	户	花	哗	华	猾	滑	画	划	化	
BBB0	话	槐	徊	怀	淮	坏	欢	环	桓	还	缓	换	患	唤	痪	豢
BBC0	焕	涣	宦	幻	荒	慌	黄	磺	蝗	簧	皇	凰	惶	煌	晃	幌
BBD0	恍	谎	灰	挥	辉	徽	恢	蛔	回	毁	悔	慧	卉	惠	晦	贿
BBE0	秽	会	烩	汇	讳	诲	绘	荤	昏	婚	魂	浑	混	豁	活	伙
BBF0	火	获	或	惑	霍	货	祸	击	圾	基	机	畸	稽	积	箕	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B4A0	础	储	矗	搐	触	处	揣	川	穿	椽	传	船	喘	串	疮	
B4B0	窗	幢	床	闯	创	吹	炊	捶	锤	垂	春	椿	醇	唇	淳	纯
B4C0	蠢	戳	绰	疵	茨	磁	雌	辞	慈	瓷	词	此	刺	赐	次	聪
B4D0	葱	囱	匆	从	丛	凑	粗	醋	簇	促	蹿	篡	窜	摧	崔	催
B4E0	脆	瘁	粹	淬	翠	村	存	寸	磋	撮	搓	措	挫	错	搭	达
B4F0	答	瘩	打	大	呆	歹	傣	戴	带	殆	代	贷	袋	待	逮	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B5A0	怠	耽	担	丹	单	郸	掸	胆	旦	氮	但	惮	淡	诞	弹	
B5B0	蛋	当	挡	党	荡	档	刀	捣	蹈	倒	岛	祷	导	到	稻	悼
B5C0	道	盗	德	得	的	蹬	灯	登	等	瞪	凳	邓	堤	低	滴	迪
B5D0	敌	笛	狄	涤	翟	嫡	抵	底	地	蒂	第	帝	弟	递	缔	颠
B5E0	掂	滇	碘	点	典	靛	垫	电	佃	甸	店	惦	奠	淀	殿	碉
B5F0	叼	雕	凋	刁	掉	吊	钓	调	跌	爹	碟	蝶	迭	谍	叠	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B6A0		丁	盯	叮	钉	顶	鼎	锭	定	订	丢	东	冬	董	懂	动
B6B0	栋	侗	恫	冻	洞	兜	抖	斗	陡	豆	逗	痘	都	督	毒	犊
B6C0	独	读	堵	睹	赌	杜	镀	肚	度	渡	妒	端	短	锻	段	断
B6D0	缎	堆	兑	队	对	墩	吨	蹲	敦	顿	囤	钝	盾	遁	掇	哆
B6E0	多	夺	垛	躲	朵	跺	舵	剁	惰	堕	蛾	峨	鹅	俄	额	讹
B6F0	娥	恶	厄	扼	遏	鄂	饿	恩	而	儿	耳	尔	饵	洱	二	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B7A0		贰	发	罚	伐	乏	阀	法	珐	藩	帆	番	翻	樊	矾	
B7B0	钒	繁	凡	烦	反	返	范	贩	犯	饭	泛	坊	芳	方	肪	房
B7C0	防	妨	仿	访	纺	放	菲	非	啡	飞	肥	匪	诽	吠	肺	废
B7D0	沸	费	芬	酚	吩	氛	分	纷	坟	焚	汾	粉	奋	份	忿	愤
B7E0	粪	丰	封	枫	蜂	峰	锋	风	疯	烽	逢	冯	缝	讽	奉	凤
B7F0	佛	否	夫	敷	肤	孵	扶	拂	辐	幅	氟	符	伏	俘	服	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BCA0		肌	饥	迹	激	讥	鸡	姬	绩	缉	吉	极	棘	辑	籍	集
BCB0	及	急	疾	汲	即	嫉	级	挤	几	脊	己	蓟	技	冀	季	伎
BCC0	祭	剂	悸	济	寄	寂	计	记	既	忌	际	妓	继	纪	嘉	枷
BCD0	夹	佳	家	加	荚	颊	贾	甲	钾	假	稼	价	架	驾	嫁	歼
BCE0	监	坚	尖	笺	间	煎	兼	肩	艰	奸	缄	茧	检	柬	碱	硷
BCF0	拣	捡	简	俭	剪	减	荐	槛	鉴	践	贱	见	键	箭	件	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BDA0		健	舰	剑	饯	渐	溅	涧	建	僵	姜	将	浆	江	疆	蒋
BDB0	桨	奖	讲	匠	酱	降	蕉	椒	礁	焦	胶	交	郊	浇	骄	娇
BDC0	嚼	搅	铰	矫	侥	脚	狡	角	饺	缴	绞	剿	教	酵	轿	较
BDD0	叫	窖	揭	接	皆	秸	街	阶	截	劫	节	桔	杰	捷	睫	竭
BDE0	洁	结	解	姐	戒	藉	芥	界	借	介	疥	诫	届	巾	筋	斤
BDF0	金	今	津	襟	紧	锦	仅	谨	进	靳	晋	禁	近	烬	浸	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BEA0		尽	劲	荆	兢	茎	睛	晶	鲸	京	惊	精	粳	经	井	警
BEB0	景	颈	静	境	敬	镜	径	痉	靖	竟	竞	净	炯	窘	揪	究
BEC0	纠	玖	韭	久	灸	九	酒	厩	救	旧	臼	舅	咎	就	疚	鞠
BED0	拘	狙	疽	居	驹	菊	局	咀	矩	举	沮	聚	拒	据	巨	具
BEE0	距	踞	锯	俱	句	惧	炬	剧	捐	鹃	娟	倦	眷	卷	绢	撅
BEF0	攫	抉	掘	倔	爵	觉	决	诀	绝	均	菌	钧	军	君	峻	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BFA0		俊	竣	浚	郡	骏	喀	咖	卡	咯	开	揩	楷	凯	慨	刊
BFB0	堪	勘	坎	砍	看	康	慷	糠	扛	抗	亢	炕	考	拷	烤	靠
BFC0	坷	苛	柯	棵	磕	颗	科	壳	咳	可	渴	克	刻	客	课	肯
BFD0	啃	垦	恳	坑	吭	空	恐	孔	控	抠	口	扣	寇	枯	哭	窟
BFE0	苦	酷	库	裤	夸	垮	挎	跨	胯	块	筷	侩	快	宽	款	匡
BFF0	筐	狂	框	矿	眶	旷	况	亏	盔	岿	窥	葵	奎	魁	傀	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C0A0	馈	愧	溃	坤	昆	捆	困	括	扩	廓	阔	垃	拉	喇	蜡	
C0B0	腊	辣	啦	莱	来	赖	蓝	婪	栏	拦	篮	阑	兰	澜	谰	揽
C0C0	览	懒	缆	烂	滥	琅	榔	狼	廊	郎	朗	浪	捞	劳	牢	老
C0D0	佬	姥	酪	烙	涝	勒	乐	雷	镭	蕾	磊	累	儡	垒	擂	肋
C0E0	类	泪	棱	楞	冷	厘	梨	犁	黎	篱	狸	离	漓	理	李	里
C0F0	鲤	礼	莉	荔	吏	栗	丽	厉	励	砾	历	利	傈	例	俐	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C1A0	痢	立	粒	沥	隶	力	璃	哩	俩	联	莲	连	镰	廉	怜	
C1B0	涟	帘	敛	脸	链	恋	炼	练	粮	凉	梁	粱	良	两	辆	量
C1C0	晾	亮	谅	撩	聊	僚	疗	燎	寥	辽	潦	了	撂	镣	廖	料
C1D0	列	裂	烈	劣	猎	琳	林	磷	霖	临	邻	鳞	淋	凛	赁	吝
C1E0	拎	玲	菱	零	龄	铃	伶	羚	凌	灵	陵	岭	领	另	令	溜
C1F0	琉	榴	硫	馏	留	刘	瘤	流	柳	六	龙	聋	咙	笼	窿	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C2A0	隆	垄	拢	陇	楼	娄	搂	篓	漏	陋	芦	卢	颅	庐	炉	
C2B0	掳	卤	虏	鲁	麓	碌	露	路	赂	鹿	潞	禄	录	陆	戮	驴
C2C0	吕	铝	侣	旅	履	屡	缕	虑	氯	律	率	滤	绿	峦	挛	孪
C2D0	滦	卵	乱	掠	略	抡	轮	伦	仑	沦	纶	论	萝	螺	罗	逻
C2E0	锣	箩	骡	裸	落	洛	骆	络	妈	麻	玛	码	蚂	马	骂	嘛
C2F0	吗	埋	买	麦	卖	迈	脉	瞒	馒	蛮	满	蔓	曼	慢	漫	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C3A0	谩	芒	茫	盲	氓	忙	莽	猫	茅	锚	毛	矛	铆	卯	茂	
C3B0	冒	帽	貌	贸	么	玫	枚	梅	酶	霉	煤	没	眉	媒	镁	每
C3C0	美	昧	寐	妹	媚	门	闷	们	萌	蒙	檬	盟	锰	猛	梦	孟
C3D0	眯	醚	靡	糜	迷	谜	弥	米	秘	觅	泌	蜜	密	幂	棉	眠
C3E0	绵	冕	免	勉	娩	缅	面	苗	描	瞄	藐	秒	渺	庙	妙	蔑
C3F0	灭	民	抿	皿	敏	悯	闽	明	螟	鸣	铭	名	命	谬	摸	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C8A0	取	娶	龋	趣	去	圈	颧	权	醛	泉	全	痊	拳	犬	券	
C8B0	劝	缺	炔	瘸	却	鹊	榷	确	雀	裙	群	然	燃	冉	染	瓤
C8C0	壤	攘	嚷	让	饶	扰	绕	惹	热	壬	仁	人	忍	韧	任	认
C8D0	刃	妊	纫	扔	仍	日	戎	茸	蓉	荣	融	熔	溶	容	绒	冗
C8E0	揉	柔	肉	茹	蠕	儒	孺	如	辱	乳	汝	入	褥	软	阮	蕊
C8F0	瑞	锐	闰	润	若	弱	撒	洒	萨	腮	鳃	塞	赛	三	叁	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C9A0	伞	散	桑	嗓	丧	搔	骚	扫	嫂	瑟	色	涩	森	僧	莎	
C9B0	砂	杀	刹	沙	纱	傻	啥	煞	筛	晒	珊	苫	杉	山	删	煽
C9C0	衫	闪	陕	擅	赡	膳	善	汕	扇	缮	墒	伤	商	赏	晌	上
C9D0	尚	裳	梢	捎	稍	烧	芍	勺	韶	少	哨	邵	绍	奢	赊	蛇
C9E0	舌	舍	赦	摄	射	慑	涉	社	设	砷	申	呻	伸	身	深	娠
C9F0	绅	神	沈	审	婶	甚	肾	慎	渗	声	生	甥	牲	升	绳	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CAA0	省	盛	剩	胜	圣	师	失	狮	施	湿	诗	尸	虱	十	石	
CAB0	拾	时	什	食	蚀	实	识	史	矢	使	屎	驶	始	式	示	士
CAC0	世	柿	事	拭	誓	逝	势	是	嗜	噬	适	仕	侍	释	饰	氏
CAD0	市	恃	室	视	试	收	手	首	守	寿	授	售	受	瘦	兽	蔬
CAE0	枢	梳	殊	抒	输	叔	舒	淑	疏	书	赎	孰	熟	薯	暑	曙
CAF0	署	蜀	黍	鼠	属	术	述	树	束	戍	竖	墅	庶	数	漱	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CBA0	恕	刷	耍	摔	衰	甩	帅	栓	拴	霜	双	爽	谁	水	睡	
CBB0	税	吮	瞬	顺	舜	说	硕	朔	炼	斯	撕	嘶	思	私	司	丝
CBC0	死	肆	寺	嗣	四	伺	似	饲	巳	松	耸	怂	颂	送	宋	讼
CBD0	诵	搜	艘	擞	嗽	苏	酥	俗	素	速	粟	僳	塑	溯	宿	诉
CBE0	肃	酸	蒜	算	虽	隋	随	绥	髓	碎	岁	穗	遂	隧	祟	孙
CBF0	损	笋	蓑	梭	唆	缩	琐	索	锁	所	塌	他	它	她	塔	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C4A0	摹	蘑	模	膜	磨	摩	魔	抹	末	莫	墨	默	沫	漠	寞	
C4B0	陌	谋	牟	某	拇	牡	亩	姆	母	墓	暮	幕	募	慕	木	目
C4C0	睦	牧	穆	拿	哪	呐	钠	那	娜	纳	氖	乃	奶	耐	奈	南
C4D0	男	难	囊	挠	脑	恼	闹	淖	呢	馁	内	嫩	能	妮	霓	倪
C4E0	泥	尼	拟	你	匿	腻	逆	溺	蔫	拈	年	碾	撵	捻	念	娘
C4F0	酿	鸟	尿	捏	聂	孽	啮	镊	镍	涅	您	柠	狞	凝	宁	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C5A0	拧	泞	牛	扭	钮	纽	脓	浓	农	弄	奴	努	怒	女	暖	
C5B0	虐	疟	挪	懦	糯	诺	哦	欧	鸥	殴	藕	呕	偶	沤	啪	趴
C5C0	爬	帕	怕	琶	拍	排	牌	徘	湃	派	攀	潘	盘	磐	盼	畔
C5D0	判	叛	乓	庞	旁	耪	胖	抛	咆	刨	炮	袍	跑	泡	呸	胚
C5E0	培	裴	赔	陪	配	佩	沛	喷	盆	砰	抨	烹	澎	彭	蓬	棚
C5F0	硼	篷	膨	朋	鹏	捧	碰	坯	砒	霹	批	披	劈	琵	毗	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C6A0	啤	脾	疲	皮	匹	痞	僻	屁	譬	篇	偏	片	骗	飘	漂	
C6B0	瓢	票	撇	瞥	拼	频	贫	品	聘	乒	坪	苹	萍	平	凭	瓶
C6C0	评	屏	坡	泼	颇	婆	破	魄	迫	粕	剖	扑	铺	仆	莆	葡
C6D0	菩	蒲	埔	朴	圃	普	浦	谱	曝	瀑	期	欺	栖	戚	妻	七
C6E0	凄	漆	柒	沏	其	棋	奇	歧	畦	崎	脐	齐	旗	祈	祁	骑
C6F0	起	岂	乞	企	启	契	砌	器	气	迄	弃	汽	泣	讫	掐	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C7A0	恰	洽	牵	扦	钎	铅	千	迁	签	仟	谦	乾	黔	钱	钳	
C7B0	前	潜	遣	浅	谴	堑	嵌	欠	歉	枪	呛	腔	羌	墙	蔷	强
C7C0	抢	橇	锹	敲	悄	桥	瞧	乔	侨	巧	鞘	撬	翘	峭	俏	窍
C7D0	切	茄	且	怯	窃	钦	侵	亲	秦	琴	勤	芹	擒	禽	寝	沁
C7E0	青	轻	氢	倾	卿	清	擎	晴	氰	情	顷	请	庆	琼	穷	秋
C7F0	丘	邱	球	求	囚	酋	泅	趋	区	蛆	曲	躯	屈	驱	渠	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CCA0	猬	挞	蹋	踏	胎	苔	抬	台	泰	酞	太	态	汰	坍	摊	
CCB0	贪	瘫	滩	坛	檀	痰	潭	谭	谈	坦	毯	袒	碳	探	叹	炭
CCC0	汤	塘	搪	堂	棠	膛	唐	糖	倘	躺	淌	趟	烫	掏	涛	滔
CCD0	绦	萄	桃	逃	淘	陶	讨	套	特	藤	腾	疼	誊	梯	剔	踢
CCE0	锑	提	题	蹄	啼	体	替	嚏	惕	涕	剃	屉	天	添	填	田
CCF0	甜	恬	舔	腆	挑	条	迢	眺	跳	贴	铁	帖	厅	听	烃	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CDA0	汀	廷	停	亭	庭	挺	艇	通	桐	酮	瞳	同	铜	彤	童	
CDB0	桶	捅	筒	统	痛	偷	投	头	透	凸	秃	突	图	徒	途	涂
CDC0	屠	土	吐	兔	湍	团	推	颓	腿	蜕	褪	退	吞	屯	臀	拖
CDD0	托	脱	鸵	陀	驮	驼	椭	妥	拓	唾	挖	哇	蛙	洼	娃	瓦
CDE0	袜	歪	外	豌	弯	湾	玩	顽	丸	烷	完	碗	挽	晚	皖	惋
CDF0	宛	婉	万	腕	汪	王	亡	枉	网	往	旺	望	忘	妄	威	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CEA0	巍	微	危	韦	违	桅	围	唯	惟	为	潍	维	苇	萎	委	
CEB0	伟	伪	尾	纬	未	蔚	味	畏	胃	喂	魏	位	渭	谓	尉	慰
CEC0	卫	瘟	温	蚊	文	闻	纹	吻	稳	紊	问	嗡	翁	瓮	挝	蜗
CED0	涡	窝	我	斡	卧	握	沃	巫	呜	钨	乌	污	诬	屋	无	芜
CEE0	梧	吾	吴	毋	武	五	捂	午	舞	伍	侮	坞	戊	雾	晤	物
CEF0	勿	务	悟	误	昔	熙	析	西	硒	矽	晰	嘻	吸	锡	牺	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CFA0	稀	息	希	悉	膝	夕	惜	熄	烯	溪	汐	犀	檄	袭	席	
CFB0	习	媳	喜	铣	洗	系	隙	戏	细	瞎	虾	匣	霞	辖	暇	峡
CFC0	侠	狭	下	厦	夏	吓	掀	锨	先	仙	鲜	纤	咸	贤	衔	舷
CFD0	闲	涎	弦	嫌	显	险	现	献	县	腺	馅	羡	宪	陷	限	线
CFE0	相	厢	镶	香	箱	襄	湘	乡	翔	祥	详	想	响	享	项	巷
CFF0	橡	像	向	象	萧	硝	霄	削	哮	嚣	销	消	宵	淆	晓	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D0A0		小	孝	校	肖	啸	笑	效	楔	些	歇	蝎	鞋	协	挟	携
D0B0	邪	斜	胁	谐	写	械	卸	蟹	懈	泄	泻	谢	屑	薪	芯	锌
D0C0	欣	辛	新	忻	心	信	衅	星	腥	猩	惺	兴	刑	型	形	邢
D0D0	行	醒	幸	杏	性	姓	兄	凶	胸	匈	汹	雄	熊	休	修	羞
D0E0	朽	嗅	锈	秀	袖	绣	墟	戌	需	虚	嘘	须	徐	许	蓄	酗
D0F0	叙	旭	序	畜	恤	絮	婿	绪	续	轩	喧	宣	悬	旋	玄	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D1A0		选	癣	眩	绚	靴	薛	学	穴	雪	血	勋	熏	循	旬	询
D1B0	寻	驯	巡	殉	汛	训	讯	逊	迅	压	押	鸦	鸭	呀	丫	芽
D1C0	牙	蚜	崖	衙	涯	雅	哑	亚	讶	焉	咽	阉	烟	淹	盐	严
D1D0	研	蜒	岩	延	言	颜	阎	炎	沿	奄	掩	眼	衍	演	艳	堰
D1E0	燕	厌	砚	雁	唁	彦	焰	宴	谚	验	殃	央	鸯	秧	杨	扬
D1F0	佯	疡	羊	洋	阳	氧	仰	痒	养	样	漾	邀	腰	妖	瑶	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D2A0		摇	尧	遥	窑	谣	姚	咬	舀	药	要	耀	椰	噎	耶	爷
D2B0	野	冶	也	页	掖	业	叶	曳	腋	夜	液	一	壹	医	揖	铱
D2C0	依	伊	衣	颐	夷	遗	移	仪	胰	疑	沂	宜	姨	彝	椅	蚁
D2D0	倚	已	乙	矣	以	艺	抑	易	邑	屹	亿	役	臆	逸	肄	疫
D2E0	亦	裔	意	毅	忆	义	益	溢	诣	议	谊	译	异	翼	翌	绎
D2F0	茵	荫	因	殷	音	阴	姻	吟	银	淫	寅	饮	尹	引	隐	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D3A0		印	英	樱	婴	鹰	应	缨	莹	萤	营	荧	蝇	迎	赢	盈
D3B0	影	颖	硬	映	哟	拥	佣	臃	痈	庸	雍	踊	蛹	咏	泳	涌
D3C0	永	恿	勇	用	幽	优	悠	忧	尤	由	邮	铀	犹	油	游	酉
D3D0	有	友	右	佑	釉	诱	又	幼	迂	淤	于	盂	榆	虞	愚	舆
D3E0	余	俞	逾	鱼	愉	渝	渔	隅	予	娱	雨	与	屿	禹	宇	语
D3F0	羽	玉	域	芋	郁	吁	遇	喻	峪	御	愈	欲	狱	育	誉	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D8A0		亍	丌	兀	丐	廿	卅	丕	亘	丞	鬲	孬	噩	丨	禺	丿
D8B0	匕	乇	夭	爻	卮	氐	囟	胤	馗	毓	睾	鼗	丶	亟	鼐	乜
D8C0	乩	亓	芈	孛	啬	嘏	仄	厍	厝	厣	厥	厮	靥	赝	匚	叵
D8D0	匦	匮	匾	赜	卦	卣	刂	刈	刎	刭	刳	刿	剀	剌	剞	剡
D8E0	剜	蒯	剽	劂	劁	劐	劓	冂	罔	亻	仃	仉	仂	仨	仡	仫
D8F0	仞	伛	仳	伢	佤	仵	伥	伧	伉	伫	佞	佧	攸	佚	佝	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D9A0		佟	佗	伲	伽	佶	佴	侑	侉	侃	侏	佾	佻	侪	佼	侬
D9B0	侔	俦	俨	俪	俅	俚	俣	俜	俑	俟	俸	倩	偌	俳	倬	倏
D9C0	倮	倭	俾	倜	倌	倥	倨	偾	偃	偕	偈	偎	偬	偻	傥	傧
D9D0	傩	傺	僖	儆	僭	僬	僦	僮	儇	儋	仝	氽	佘	佥	俎	龠
D9E0	汆	籴	兮	巽	黉	馘	冁	夔	勹	匍	訇	匐	凫	夙	兕	亠
D9F0	兖	亳	衮	袤	亵	脔	裒	禀	嬴	蠃	羸	冫	冱	冽	冼	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
DAA0		凇	冖	冢	冥	讠	讦	讧	讪	讴	讵	讷	诂	诃	诋	诏
DAB0	诎	诒	诓	诔	诖	诘	诙	诜	诟	诠	诤	诨	诩	诮	诰	诳
DAC0	诶	诹	诼	诿	谀	谂	谄	谇	谌	谏	谑	谒	谔	谕	谖	谙
DAD0	谛	谘	谝	谟	谠	谡	谥	谧	谪	谫	谯	谲	谳	谴	谵	谶
DAE0	卩	卺	阝	阢	阡	阱	阪	阽	阼	陂	陉	陔	陟	陧	陬	陲
DAF0	陴	隈	隍	隗	隰	邗	邛	邝	邙	邬	邡	邴	邳	邶	邺	邺

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
DBA0		邸	邰	郏	郅	邾	郐	郄	郇	郓	郦	郢	郜	郗	郛	郫
DBB0	郯	郾	鄄	鄢	鄞	鄣	鄱	鄹	鄹	酃	酆	刍	奂	劢	劬	劭
DBC0	劾	哿	勐	勖	勰	叟	燮	矍	廴	凵	凼	鬯	厶	弁	畚	巯
DBD0	坌	垩	垡	塾	墼	壅	壑	圩	圬	圪	圳	圹	圮	圯	坜	圻
DBE0	坂	坩	垅	坫	垆	坼	坻	坨	坭	坶	坳	垭	垤	垌	垲	埏
DBF0	垧	垴	垓	垠	垾	埘	埚	埙	埒	垸	埴	埯	埸	埤	埝	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D4A0	浴	寓	裕	预	豫	驭	鸳	渊	冤	元	垣	袁	原	援	辕	
D4B0	园	员	圆	猿	源	缘	远	苑	愿	怨	院	曰	约	越	跃	钥
D4C0	岳	粤	月	悦	阅	耘	云	郧	匀	陨	允	运	蕴	酝	晕	韵
D4D0	孕	匝	砸	杂	栽	哉	灾	宰	载	再	在	咱	攒	暂	赞	赃
D4E0	脏	葬	遭	糟	凿	藻	枣	早	澡	蚤	躁	噪	造	皂	灶	燥
D4F0	责	择	则	泽	贼	怎	增	憎	曾	赠	扎	喳	渣	札	轧	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D5A0	铡	闸	眨	栅	榨	咋	乍	炸	诈	摘	斋	宅	窄	债	寨	
D5B0	瞻	毡	詹	粘	沾	盏	斩	辗	崭	展	蘸	栈	占	战	站	湛
D5C0	绽	樟	章	彰	漳	张	掌	涨	杖	丈	帐	账	仗	胀	瘴	障
D5D0	招	昭	找	沼	赵	照	罩	兆	肇	召	遮	折	哲	蛰	辙	者
D5E0	锗	蔗	这	浙	珍	斟	真	甄	砧	臻	贞	针	侦	枕	疹	诊
D5F0	震	振	镇	阵	蒸	挣	睁	征	狰	争	怔	整	拯	正	政	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D6A0	帧	症	郑	证	芝	枝	支	吱	蜘	知	肢	脂	汁	之	织	
D6B0	职	直	植	殖	执	值	侄	址	指	止	趾	只	旨	纸	志	挚
D6C0	掷	至	致	置	帜	峙	制	智	秩	稚	质	炙	痔	滞	治	窒
D6D0	中	盅	忠	钟	衷	终	种	肿	重	仲	众	舟	周	州	洲	诌
D6E0	粥	轴	肘	帚	咒	皱	宙	昼	骤	珠	株	蛛	朱	猪	诸	诛
D6F0	逐	竹	烛	煮	拄	瞩	嘱	主	著	柱	助	蛀	贮	铸	筑	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
D7A0	住	注	祝	驻	抓	爪	拽	专	砖	转	撰	赚	篆	桩	庄	
D7B0	装	妆	撞	壮	状	椎	锥	追	赘	坠	缀	谆	准	捉	拙	卓
D7C0	桌	琢	茁	酌	啄	着	灼	浊	兹	咨	资	姿	滋	淄	孜	紫
D7D0	仔	籽	滓	子	自	渍	字	鬃	棕	踪	宗	综	总	纵	邹	走
D7E0	奏	揍	租	足	卒	族	祖	诅	阻	组	钻	纂	嘴	醉	最	罪
D7F0	尊	遵	昨	左	佐	柞	做	作	坐	座						

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
DCA0	堋	堍	埸	埭	堀	堞	堙	塄	堠	塥	塘	堑	墚	墀		
DCB0	馨	鼙	懿	艹	艽	艿	芏	芊	芎	芑	芏	芗	芙	芫	芸	
DCC0	芾	芰	芳	芘	芭	芘	芷	芮	芄	芫	芼	芴	芩	芴	芪	芟
DCD0	芊	芑	芄	芟	芣	苯	苞	芟	苜	苴	苒	苘	苻	苻	苓	
DCE0	葛	茆	茆	苹	苄	苊	苣	茜	萁	菡	莙	苹	莘	苊	苗	茱
DCF0	莛	荞	茯	荏	荇	荃	荟	荀	茗	荠	荽	荛	荠	茫	荤	荥

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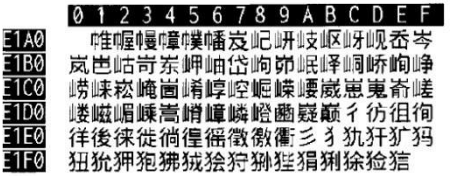
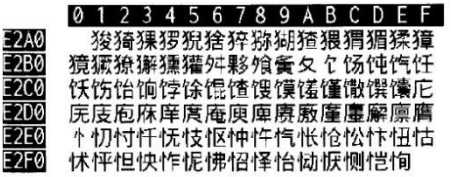
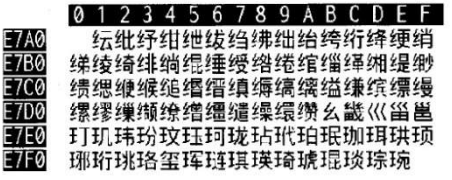
DDA0	荨	莨	荩	荬	荪	荭	荻	荸	莳	莴	莠	莪	莓	莜		
DDB0	莅	荼	莶	莩	荽	莰	荿	莘	莞	莨	莺	莼	菁	萁	萚	崧
DDC0	菖	恭	萋	菠	菅	萌	萏	萑	萆	萸	萓	菟	萘	萃	菸	菹
DDD0	菪	菅	菀	萦	菰	菡	葜	葑	葚	葙	葳	蒇	蒈	葺	蒉	葸
DDE0	萼	葆	葩	葶	蒌	蒎	萱	葭	蓁	蓍	蓐	蓦	蔥	蓓	蓊	蒿
DDF0	蒺	蓠	蒡	蒹	蒴	蒲	蒽	蓥	苌	蒯	薤	白	徙	薮	族	葡

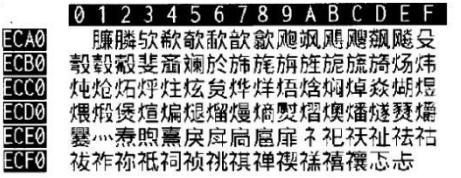
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
DEA0	藁	藏	蒋	蘼	蕙	蕈	蕨	蕞	蕺	瞢	蕃	蘅	薪	蕲	薤	
DEB0	薨	薇	薏	薤	薮	薛	薷	薹	薷	藐	藓	藁	藜	藿	蘧	蘅
DEC0	蘩	蘖	蘼	廾	弈	夼	奁	奁	奕	奚	奘	匏	尢	尬	尴	扪
DED0	扌	扪	抟	抻	拚	拗	拮	挢	拶	挹	捋	捃	掭	揶	揸	揿
DEE0	挶	搳	掴	挲	掼	掳	掸	掴	掷	掭	掮	掼	揸	揖	揿	揲
DEF0	摒	揆	掾	摅	摁	搂	搠	摏	摒	掼	搀	摁	搡	摞	撼	摭

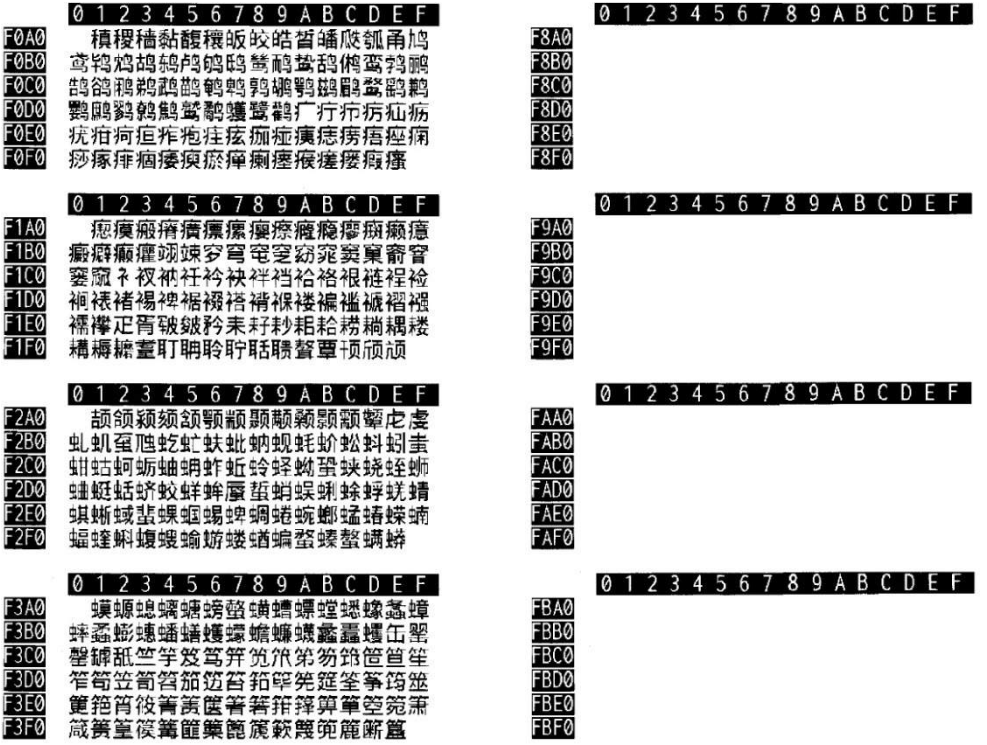
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
DFA0	撷	撸	撺	擞	攥	擐	擗	擤	擢	攉	攥	攫	弋	忒		
DFB0	甙	弒	卟	叱	叽	叩	叨	叻	吒	吖	吆	呋	呒	呓	呔	呖
DFC0	呃	呗	呙	吣	吲	咂	咔	呷	呱	呤	咚	咛	咄	呶	呦	
DFD0	咝	哐	咭	哂	咴	哒	咧	咦	哓	哔	哔	呲	咻	哕	咿	呸
DFE0	哌	哚	哜	咩	咪	咤	哝	哏	哞	唢	唠	哒	哧	唛	唝	哙
DFF0	哳	唧	唔	哮	哚	哏	喵	唑	唧	唪	喋	喱	唛	唷	喽	唑

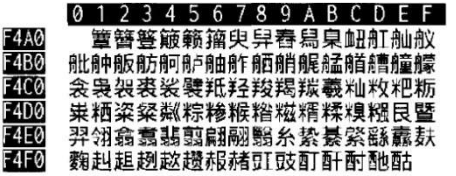


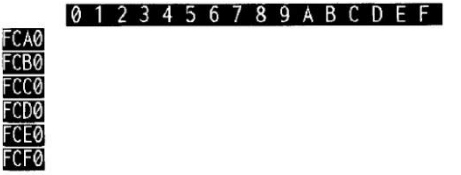


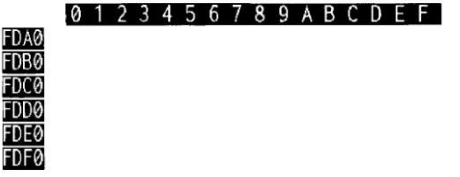


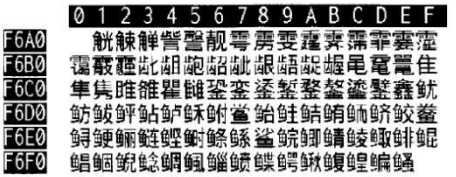


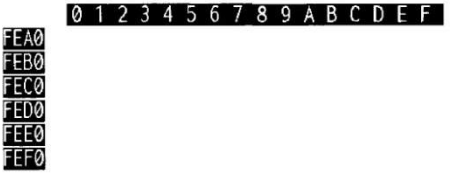




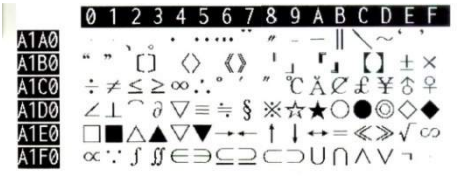


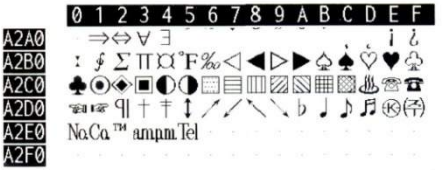


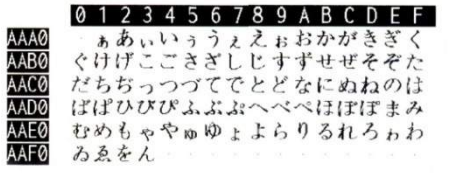


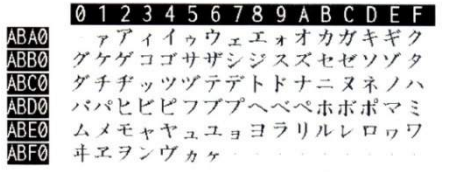


7-6 Korean Language Codes



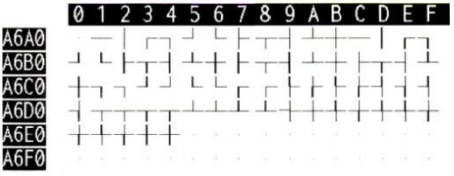




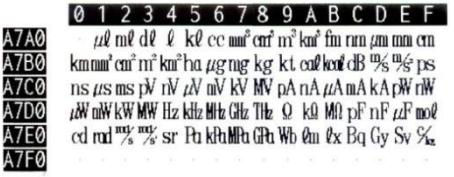


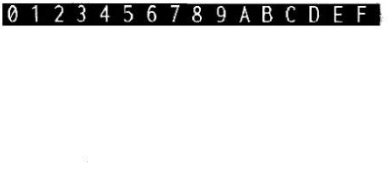
0 1 2 3 4 5 6 7 8 9 A B C D E F
A5A0 i ii iii iv v vi vii viii ix x
A5B0 Ⅰ Ⅱ Ⅲ Ⅳ Ⅴ Ⅵ Ⅶ Ⅷ Ⅸ Ⅹ
A5C0 Α Β Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο
A5D0 Π Ρ Σ Τ Υ Φ Χ Ψ Ω
A5E0 α β γ δ ε ζ η θ ι κ λ μ ν ξ ο
A5F0 π ρ σ τ υ φ χ ψ ω

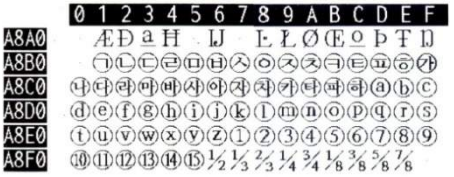
0 1 2 3 4 5 6 7 8 9 A B C D E F
ADA0
ADB0
ADC0
ADD0
ADE0
ADF0


0 1 2 3 4 5 6 7 8 9 A B C D E F
A6A0
A6B0
A6C0
A6D0
A6E0
A6F0

0 1 2 3 4 5 6 7 8 9 A B C D E F
AEA0
AEB0
AEC0
AED0
AEE0
AEF0


0 1 2 3 4 5 6 7 8 9 A B C D E F
A7A0 μℓ mℓ dℓ ℓ kℓ cc mm² cm² m² km² fm rm μm mm cm
A7B0 km mm³ cm³ m³ km³ ha μg mg kg kt cal kcal dB ‰ ‱ ps
A7C0 ns μs ms pV nV μV mV kV MV pA nA μA mA kA pW nW
A7D0 μW mW kW MW Hz kHz MHz GHz THz Ω kΩ MΩ pF nF μF mol
A7E0 cd rad ‰ ‱ sr Pa kPa MPa GPa Wb °C lx Bq Gy Sv %
A7F0


0 1 2 3 4 5 6 7 8 9 A B C D E F
AFA0
AFB0
AFC0
AFD0
AFE0
AFF0


0 1 2 3 4 5 6 7 8 9 A B C D E F
A8A0 Æ Ð a Ħ IJ Ŀ Ł Ø Œ º Þ Ŧ Ŋ
A8B0 ㉠ ㉡ ㉢ ㉣ ㉤ ㉥ ㉦ ㉧ ㉨ ㉩ ㉪ ㉫ ㉬ ㉭
A8C0 ㉮ ㉯ ㉰ ㉱ ㉲ ㉳ ㉴ ㉵ ㉶ ㉷ ㉸ ㉹ ⓐ ⓑ ⓒ
A8D0 ⓓ ⓔ ⓕ ⓖ ⓗ ⓘ ⓙ ⓚ ⓛ ⓜ ⓝ ⓞ ⓟ ⓠ ⓡ ⓢ
A8E0 ⓣ ⓤ ⓥ ⓦ ⓧ ⓨ ⓩ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
A8F0 ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ½ ⅓ ⅔ ¼ ¾ ⅛ ⅜ ⅝ ⅞

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B0A0		가	각	간	갇	갈	갉	갊	감	갑	값	갓	갔	강	갖	갗
B0B0	같	갚	갛	개	객	갠	갤	갬	갭	갯	갰	갱	갸	갹	갼	걀
B0C0	걋	걍	걔	걘	걜	거	걱	건	걷	걸	걺	검	겁	것	겄	겅
B0D0	겆	겉	겊	겋	게	겐	겔	겜	겝	겟	겠	겡	겨	격	겪	견
B0E0	겯	결	겸	겹	겻	겼	경	곁	계	곈	곌	곕	곗	고	곡	곤
B0F0	곧	골	곪	곬	곯	곰	곱	곳	공	곶	과	곽	관	괄	괆	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B1A0		괌	괍	괏	광	괘	괜	괠	괩	괬	괭	괴	괵	괸	괼	굄
B1B0	굅	굇	굉	교	굔	굘	굡	굣	구	국	군	굳	굴	굵	굶	굻
B1C0	굼	굽	굿	궁	궂	궈	궉	권	궐	궜	궝	궤	궷	귀	귁	귄
B1D0	궐	귐	귑	귓	규	균	귤	그	극	근	귿	글	긁	금	급	긋
B1E0	긍	긔	기	긱	긴	긷	길	긺	김	깁	깃	깅	깆	깊	까	깍
B1F0	깎	깐	깔	깖	깜	깝	깟	깠	깡	깥	깨	깩	깬	깰	깸	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B2A0		깹	깻	깼	깽	꺄	꺅	꺌	꺼	꺽	꺾	껀	껄	껌	껍	껏
B2B0	껐	껑	께	껙	껨	껫	껭	껴	껸	껼	껿	꼈	꼍	꼐	꼬	
B2C0	꼭	꼰	꼲	꼴	꼼	꼽	꼿	꽁	꽂	꽃	꽈	꽉	꽐	꽜	꽝	꽤
B2D0	꽥	꽹	꾀	꾄	꾈	꾐	꾑	꾕	꾜	꾸	꾹	꾼	꿀	꿇	꿈	꿉
B2E0	꿋	꿍	꿎	꿔	꿜	꿨	꿩	꿰	꿱	꿴	꿸	뀀	뀁	뀄	뀌	뀐
B2F0	뀔	뀜	뀝	뀨	끄	끅	끈	끊	끌	끎	끓	끔	끕	끗	끙	

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B3A0		끝	끼	끽	낀	낄	낌	낍	낏	낑	나	낙	낚	난	낟	날
B3B0	낡	낢	남	납	낫	났	낭	낮	낯	낱	낳	내	낵	낸	낼	냄
B3C0	냅	냇	냈	냉	냐	냑	냔	냘	냠	냥	너	넉	넋	넌	널	넓
B3D0	넓	넘	넙	넛	넜	넝	넣	네	넥	넨	넬	넴	넵	넷	넸	넹
B3E0	녀	녁	년	녈	념	녑	녔	녕	녘	녜	녠	노	녹	논	놀	놂
B3F0	놈	놉	놋	농	높	놓	놔	놘	놜	놨	뇌	뇐	뇔	뇜	뇝	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B4A0		뇟	뇨	뇩	뇬	뇰	뇹	뇻	뇽	누	눅	눈	눋	눌	눔	눕
B4B0	눗	눙	눠	눴	눼	뉘	뉜	뉠	뉨	뉩	뉴	뉵	뉼	늄	늅	늉
B4C0	느	늑	는	늘	늙	늚	늠	늡	능	늦	늪	늬	늰	늴	니	
B4D0	닉	닌	닐	닒	님	닙	닛	닝	닢	다	닥	닦	단	닫	달	닭
B4E0	닮	닯	닳	담	답	닷	닸	당	닺	닻	닿	대	댁	댄	댈	댐
B4F0	댑	댓	댔	댕	댜	더	덕	덖	던	덛	덜	덞	덟	덤	덥	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B5A0		덧	덩	덫	덮	데	덱	덴	델	뎀	뎁	뎃	뎄	뎅	뎌	뎐
B5B0	뎔	뎠	뎡	뎨	뎬	도	독	돈	돋	돌	돎	돐	돔	돕	돗	동
B5C0	돛	돝	돠	돤	돨	돼	됐	되	된	될	됨	됩	됫	됴	두	둑
B5D0	둔	둘	둠	둡	둣	둥	둬	뒀	뒈	뒝	뒤	뒨	뒬	뒵	뒷	뒹
B5E0	듀	듄	듈	듐	듕	드	득	든	듣	들	듦	듬	듭	듯	등	듸
B5F0	디	딕	딘	딛	딜	딤	딥	딧	딨	딩	딪	따	딱	딴	딸	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B6A0		땀	땁	땃	땄	땅	땋	때	땍	땐	땔	땜	땝	땟	땠	땡
B6B0	떠	떡	떤	떨	떪	떰	떱	떳	떴	떵	떻	떼	떽	뗀	뗄	
B6C0	뗌	뗍	뗏	뗐	뗑	뗘	뗬	또	똑	똔	똘	똥	뙈	뙤	뙨	뚸
B6D0	뛴	뚜	뚝	뚠	뚤	뚫	뚬	뚭	뛔	뛰	뛴	뛸	뜀	뜁	뜅	뜨
B6E0	뜩	뜬	뜰	뜸	뜹	뜻	띄	띈	띌	띔	띕	띠	띤	띨	띰	
B6F0	띱	띳	띵	라	락	란	랄	람	랍	랏	랐	랑	랒	랖	랗	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B7A0		래	랙	랜	랠	램	랩	랫	랬	랭	랴	략	랸	랻	량	러
B7B0	럭	런	럴	럼	럽	럿	렀	렁	렇	레	렉	렌	렐	렘	렙	렛
B7C0	렝	려	력	련	렬	렴	렵	렷	렸	령	례	롄	롈	롑	로	록
B7D0	론	롤	롬	롭	롯	롱	롸	뢴	뢸	뢺	뢼	뢿	룀	룁	룃	
B7E0	룅	료	룐	룔	룝	룟	룡	루	룩	룬	룰	룸	룹	룻	룽	뤄
B7F0	뤘	뤠	뤼	뤽	륀	륄	륌	륏	륑	류	륙	륜	률	륨	륩	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B8A0		륫	륭	르	륵	른	를	름	릅	릇	릉	릊	릍	릎	리	릭
B8B0	린	릴	림	립	릿	링	마	막	만	많	맏	말	맑	맒	맘	맙
B8C0	맛	망	맞	맡	맣	매	맥	맨	맬	맴	맵	맷	맸	맹	맺	먀
B8D0	먁	먈	먕	머	먹	먼	멀	멂	멈	멉	멋	멍	멎	멓	메	멕
B8E0	멘	멜	멤	멥	멧	멨	멩	며	멱	면	멸	몃	몄	명	몇	몌
B8F0	모	목	몫	몬	몰	몲	몸	몹	못	몽	뫄	뫈	뫘	뫙	뫼	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
B9A0		묀	묄	묍	묏	묑	묘	묜	묠	묩	묫	무	묵	묶	문	묻
B9B0	물	묽	묾	뭄	뭅	뭇	뭉	뭍	뭏	뭐	뭔	뭘	뭡	뭣	뭬	뮈
B9C0	뮌	뮐	뮤	뮨	뮬	뮴	뮷	므	믄	믈	믐	믓	미	믹	민	믿
B9D0	밀	밂	밈	밉	밋	밌	밍	및	밑	바	박	밖	밗	반	받	발
B9E0	밝	밟	밟	밤	밥	밧	방	밭	배	백	밴	밸	뱀	뱁	뱃	뱄
B9F0	뱅	뱉	뱌	뱍	뱐	뱝	버	벅	번	벋	벌	벎	범	법	벗	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BAA0		벙	벚	베	벡	벤	벧	벨	벰	벱	벳	벴	벵	벼	벽	변
BAB0	별	볍	볏	볐	병	볕	볘	볜	보	복	볶	본	볼	봄	봅	봇
BAC0	봉	봐	봔	봤	봬	뵀	뵈	뵉	뵌	뵐	뵘	뵙	뵤	뵨	부	북
BAD0	분	붇	불	붉	붊	붐	붑	붓	붕	붙	붚	붜	붤	붰	붸	뷔
BAE0	뷕	뷘	뷜	뷩	뷰	뷴	뷸	븀	븃	븅	브	븍	븐	블	븜	븝
BAF0	븟	비	빅	빈	빌	빎	빔	빕	빗	빙	빚	빛	빠	빡	빤	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BBA0		빨	빪	빰	빱	빳	빴	빵	빻	빼	빽	빤	빨	빰	빱	빳
BBB0	빴	빵	빠	빡	빰	뻐	뻑	뻔	뻗	뻘	뻠	뻣	뻤	뻥	뻬	뻥
BBC0	뼈	뼉	뼘	뼙	뼛	뼜	뼝	뽀	뽁	뽄	뽈	뽐	뽑	뽕	뾔	뾰
BBD0	뿅	뿌	뿍	뿐	뿔	뿜	뿟	뿡	쀼	쁑	쁘	쁜	쁠	쁨	쁩	삐
BBE0	삑	삔	삘	삠	삡	삣	삥	사	삭	삯	산	삳	살	삵	삶	삼
BBF0	삽	삿	샀	상	샅	새	색	샌	샐	샘	샙	샛	샜	생	샤	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BCA0		샥	샨	샬	샴	샵	샷	샹	섀	섄	섈	섐	섕	서	석	섞
BCB0	섟	선	섣	설	섦	섧	섬	섭	섯	섰	성	섶	세	섹	센	셀
BCC0	셈	셉	셋	셌	셍	셔	셕	션	셜	셤	셥	셧	셨	셩	셰	셴
BCD0	셸	솅	소	속	솎	손	솔	솖	솜	솝	솟	송	솥	솨	솩	솬
BCE0	솰	솽	쇄	쇈	쇌	쇔	쇗	쇘	쇠	쇤	쇨	쇰	쇱	쇳	쇼	쇽
BCF0	숀	숄	숌	숍	숏	숑	수	숙	순	숟	술	숨	숩	숫	숭	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BDA0		숯	숱	숲	숴	쉈	쉐	쉑	쉔	쉘	쉠	쉥	쉬	쉭	쉰	쉴
BDB0	쉼	쉽	쉿	슁	슈	슉	슐	슘	슛	슝	스	슥	슨	슬	슭	슴
BDC0	습	슷	승	시	식	신	싣	실	싫	심	십	싯	싱	싶	싸	싹
BDD0	싻	싼	쌀	쌈	쌉	쌌	쌍	쌓	쌔	쌕	쌘	쌜	쌤	쌥	쌨	쌩
BDE0	썅	써	썩	썬	썰	썲	썸	썹	썼	썽	쎄	쎈	쎌	쎈	쏘	쏙
BDF0	쏜	쏟	쏠	쏢	쏨	쏩	쏭	쏴	쏵	쏸	쐈	쐤	쐬	쐭	쐬	쐰

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BEA0		쐴	쐼	쐽	쑈	쑤	쑥	쑨	쑬	쑴	쑵	쑹	쒀	쒔	쒜	쒸
BEB0	쒼	쓩	쓰	쓱	쓴	쓸	쓺	쓿	씀	씁	씩	씬	씔	씜	씨	씩
BEC0	씬	씰	씸	씹	씻	씽	아	악	안	앉	않	알	앍	앎	앓	암
BED0	압	앗	았	앙	앝	앞	애	액	앤	앨	앰	앱	앳	앴	앵	야
BEE0	약	얀	얄	얇	얌	얍	얏	양	얕	얗	얘	얜	얠	얩	어	억
BEF0	언	얹	얻	얼	얽	얾	엄	업	없	엇	었	엉	엊	엌	엎	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
BFA0		에	엑	엔	엘	엠	엡	엣	엥	여	역	엮	연	열	엶	엷
BFB0	염	엽	엾	엿	였	영	옅	옆	옇	예	옌	옐	옘	옙	옛	옜
BFC0	오	옥	온	올	옭	옮	옰	옳	옴	옵	옷	옹	옻	와	왁	완
BFD0	왈	왐	왑	왓	왔	왕	왜	왝	왠	왬	왯	왱	외	왹	왼	욀
BFE0	욈	욉	욋	욍	요	욕	욘	욜	욤	욥	욧	용	우	욱	운	울
BFF0	욹	욺	움	웁	웃	웅	워	웍	원	월	웜	웝	웠	웡	웨	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C0A0		웩	웬	웰	웹	웹	웽	위	윅	윈	윌	윔	윕	윗	윙	유
C0B0	육	윤	율	윰	윱	윳	융	윷	으	윽	은	을	읊	음	읍	읏
C0C0	응	읒	읓	읔	읕	읖	읗	의	읜	읠	읨	읫	이	익	인	일
C0D0	읽	읾	잃	임	입	잇	있	잉	잊	잎	자	작	잔	잖	잗	잘
C0E0	잚	잠	잡	잣	잤	장	잦	재	잭	잰	잴	잼	잽	잿	쟀	쟁
C0F0	쟈	쟉	쟌	쟎	쟐	쟘	쟝	쟤	쟥	쟬	저	적	전	절	젊	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C1A0		점	접	젓	정	젖	제	젝	젠	젤	젬	젭	젯	젱	져	젼
C1B0	졀	졈	졉	졌	졍	졔	조	족	존	졸	졺	좀	좁	좃	종	좆
C1C0	좇	좋	좌	좍	좔	좝	좟	좡	좨	좼	좽	죄	죈	죌	죔	죕
C1D0	죗	죙	죠	죡	죤	죵	주	죽	준	줄	줅	줆	줌	줍	줏	중
C1E0	줘	줬	줴	쥐	쥑	쥔	쥘	쥠	쥡	쥣	쥬	쥰	쥴	쥼	즈	즉
C1F0	즌	즐	즘	즙	즛	증	지	직	진	짇	질	짊	짐	집	짓	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C2A0		징	짓	짙	짚	짜	짝	짠	짢	짤	짧	짬	짭	짯	짰	짱
C2B0	째	짹	짼	짤	쨈	쨉	쨋	쨌	쨍	쨔	쨘	쨩	쩌	쩍	쩐	쩔
C2C0	쩜	쩝	쩟	쩠	쩡	쩨	쩽	쪄	쪘	쪼	쪽	쫀	쫄	쫌	쫍	쫏
C2D0	쫑	쫓	쬐	쫙	쫠	쫬	쫴	쬈	쬐	쬔	쬘	쬠	쬡	쭁	쭈	쭉
C2E0	쭌	쭐	쭘	쭙	쭝	쭤	쭸	쭹	쮜	쮸	쮸	쯔	쯤	쯧	찌	찍
C2F0	찐	찔	찜	찝	찡	찢	찧	차	착	찬	찮	찰	참	찹	찻	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C3A0		찼	창	찾	채	책	챈	챌	챔	챕	챗	챘	챙	챠	챤	챦
C3B0	챨	챰	챵	처	척	천	철	첨	첩	첫	첬	청	체	첵	첸	첼
C3C0	쳄	쳅	쳇	쳉	쳐	쳔	쳤	쳬	쳰	쳉	초	촉	촌	촐	촘	촙
C3D0	촛	총	촤	촨	촬	촹	최	쵠	쵤	쵬	쵭	쵯	쵱	쵸	춈	추
C3E0	축	춘	출	춤	춥	춧	충	춰	췄	췌	췐	취	췬	췰	췸	췹
C3F0	췻	췽	츄	츈	츌	츔	츙	츠	측	츤	츨	츰	츱	츳	층	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C8A0		혤	혭	호	혹	혼	홀	홅	흠	흡	홋	홍	홑	화	확	환
C8B0	활	홧	황	홰	홱	홴	횃	횅	회	획	횐	횔	횝	횟	횡	효
C8C0	횬	횰	횹	횻	후	훅	훈	훌	훑	훔	훗	훙	훠	훤	훨	훰
C8D0	훵	훼	훽	휀	휄	휑	휘	휙	휜	휠	휨	휩	휫	휭	휴	휵
C8E0	휸	휼	흄	흇	흉	흐	흑	흔	흖	흗	흘	흙	흠	흡	흣	흥
C8F0	흩	희	흰	흴	흼	흽	힁	히	힉	힌	힐	힘	힙	힛	힝	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C9A0																
C9B0																
C9C0																
C9D0																
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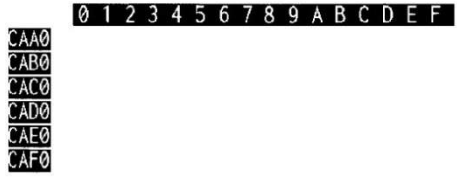
C9F0																



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CAA0																
CAB0																
CAC0																
CAD0																
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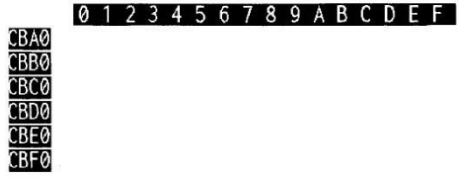
CAF0																



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CBA0																
CBB0																
CBC0																
CBD0																
CBE0																
CBF0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C4A0		치	칙	친	칟	칠	칡	침	칩	칪	칫	칭	카	칵	칸	칼	캄
C4B0	캅	캇	캉	캐	캑	캔	캘	캠	캡	캣	캤	캥	캬	캭	캰	캴	커
C4C0	컥	컨	컫	컬	컴	컵	컷	컸	컹	케	켁	켄	켈	켐	켑	켓	
C4D0	켕	켜	켠	켤	켬	켭	켯	켰	켱	켸	코	콕	콘	콜	콤	콥	
C4E0	콧	콩	콰	콱	콴	콸	콤	콩	쾌	쾡	쾨	쾰	쿄	쿠	쿡	쿤	
C4F0	쿨	쿰	쿱	쿳	쿵	쿼	퀀	퀄	퀑	퀘	퀭	퀴	퀵	퀸	퀼		

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CCA0																
CCB0																
CCC0																
CCD0																
CCE0																
CCF0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C5A0		큅	큇	큉	큐	큔	큘	큠	크	큭	큰	클	큼	큽	킁	
C5B0	키	킥	킨	킬	킴	킵	킷	킹	타	탁	탄	탈	탉	탐	탑	탓
C5C0	탔	탕	태	택	탠	탤	탬	탭	탯	탰	탱	탸	턍	터	턱	턴
C5D0	털	턺	텀	텁	텃	텄	텅	테	텍	텐	텔	템	텝	텟	텡	텨
C5E0	텬	텼	톄	톈	토	톡	톤	톨	톰	톱	톳	통	톺	퇴	퇸	퇘
C5F0	퇴	퇸	툇	툉	툐	투	툭	툰	툴	툼	툽	툿	퉁	퉈	퉜	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CDA0																
CDB0																
CDC0																
CDD0																
CDE0																
CDF0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C6A0		퉤	튁	튄	튈	튐	튑	튕	튜	튠	튤	튬	튭	튱	트	특
C6B0	튼	튿	틀	틂	틈	틉	틋	틱	틴	틸	팀	팁	팃	팅	파	팍
C6C0	팎	판	팔	팖	팜	팝	팟	팠	팡	팥	패	팩	팬	팰	팸	팹
C6D0	팻	팼	팽	퍄	퍅	퍼	퍽	펀	펄	펌	펍	펏	펐	펑	페	펙
C6E0	펜	펠	펨	펩	펫	펭	펴	편	펼	폄	폅	폇	폈	평	폐	폘
C6F0	폡	폣	폥	폐	폘	폡	폣	포	폭	폰	폴	폼	폽	폿	퐁	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CEA0																
CEB0																
CEC0																
CED0																
CEE0																
CEF0																

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C7A0		퐈	퐝	푀	푄	표	푠	푤	푭	푯	푸	푹	푼	푿	풀	풂
C7B0	품	풉	풋	풍	풔	풩	퓌	퓐	퓔	퓜	퓟	퓨	퓬	퓰	퓸	퓻
C7C0	퓽	프	픈	플	픔	픕	픗	피	픽	핀	필	핌	핍	핏	핑	하
C7D0	학	한	할	핥	함	합	핫	항	해	핵	핸	핼	햄	햅	햇	했
C7E0	행	햐	향	허	헉	헌	헐	헒	험	헙	헛	헝	헤	헥	헨	헬
C7F0	헴	헵	헷	헹	혀	혁	현	혈	혐	협	혓	혔	형	혜	혠	

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
CFA0																
CFB0																
CFC0																
CFD0																
CFE0																
CFF0																