## TOSHIBA

TOSHIBA Barcode Printer

## B-FV4 Series

## External Equipment Interface Specification

First Edition: July 18, 2014

## MODIFICATION HISTORY

EXTERNAL EQUIPMENT INTERFACE SPECIFICATION

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## TABLE OF CONTENTS

1. SCOPE ..... 1-1
2. GENERAL DESCRIPTION ..... 2-1
3. INTERFACE ..... 3-1
3.1 SERIAL INTERFACE ..... 3-1
3.2 PARALLEL INTERFACE ..... 3-4
3.3 USB INTERFACE ..... 3-6
3.4 NETWORK INTERFACE ..... 3-6
4. KEY OPERATION FUNCTIONS ..... 4-1
4.1 SYSTEM MODE (POWER UP WITH KEY PRESSED) ..... 4-1
4.1.1 Transmissive sensor select \& adjustment (with moving home position) ..... 4-1
4.1.2 Reflective sensor select \& adjustment (with moving home position) ..... 4-1
4.1.3 Parameter clearance ..... 4-1
4.1.4 Auto call cancellation ..... 4-4
4.1.5 Reserved ..... 4-4
4.1.6 BASIC mode setting disable ..... 4-4
4.1.7 Self-test printing / Dump mode ..... 4-4
4.2 ONLINE MODE FUNCTIONS ..... 4-7
5. TRANSMISSION SEQUENCE ..... 5-1
5.1 INITIALIZATION ..... 5-1
5.2 LABEL ISSUE OPERATION ..... 5-3
6. INTERFACE COMMANDS ..... 6-1
6.1 OUTLINE OF COMMANDS ..... 6-1
6.2 LIST OF COMMANDS ..... 6-3
6.3 COMMANDS FOR CREATING APPLICTION ..... 6-5
6.3.1 LABEL SIZE SET COMMAND [ESC] D ..... 6-5
6.3.2 POSITION FINE ADJUST COMMAND [ESC] AX ..... 6-9
6.3.3 PRINT DENSITY FINE ADJUST COMMAND [ESC] AY ..... 6-14
6.3.4 IMAGE BUFFER CLEAR COMMADN [ESC] C ..... 6-15
6.3.5 CLEAR AREA COMMAND [ESC] XR ..... 6-16
6.3.6 LINE FORMAT COMMAND [ESC] LC ..... 6-18
6.3.7 BIT MAP FONT FORMAT COMMAND [ESC] PC ..... 6-22
6.3.8 OUTLINE FONT FORMAT COMMAND [ESC] PV ..... 6-36
6.3.9 BARCODE FORMAT COMMAND [ESC] XB ..... 6-51
6.3.10 BIT MAP FONT DATA COMMAND [ESC] RC ..... 6-95
6.3.11 OUTLINE FONT DATA COMMAND [ESC] RV ..... 6-100
6.3.12 BARCODE DATA COMMAND [ESC] RB ..... 6-103
6.3.13 ISSUE COMMAND [ESC] XS ..... 6-119
6.3.14 FEED COMMAND [ESC] T ..... 6-130
6.3.15 EJECT COMMAND [ESC] IB ..... 6-135
6.3.16 FORWARD/REVERSE FEED COMMAND [ESC] U1, [ESC] U2 ..... 6-136
6.3.17 STORAGE AREA ALLOCATE COMMAND [ESC] XF ..... 6-138
6.3.18 FLASH MEMORY FORMAT COMMAND [ESC] J1 ..... 6-139
6.3.19 USB MEMORY FORMAT COMMAND [ESC] JA ..... 6-140
6.3.20 BIT MAP WRITABLE CHARACTER COMMAND [ESC] XD ..... 6-141
6.3.21 HEAD BROKEN DOT CHECK COMMAND [ESC] HD ..... 6-148
6.3.22 GRAPHIC COMMAND [ESC] SG ..... 6-149
6.3.23 SAVE START COMMAND [ESC] XO ..... 6-157
6.3.24 SAVE TERMINATE COMMAND [ESC] XP ..... 6-158
6.3.25 SAVED DATA CALL COMMAND [ESC] XQ ..... 6-159
6.3.26 RESET COMMAND [ESC] WR ..... 6-160
6.3.27 STATUS REQUEST COMMAND [ESC] WS ..... 6-161
6.3.28 RECEIVE BUFFER FREE SPACE STATUS REQUEST COMMAND [ESC] WB ..... 6-162
6.3.29 VERSION INFORMATION ACQUIRE COMMAND [ESC] WV ..... 6-164
6.3.30 USB MEMORY INFORMATION ACQUIRE COMMAND [ESC] WI ..... 6-165
6.3.31 PRINTER INFORMATION STORE COMMAND [ESC] IG ..... 6-167
6.3.32 PRINTER INFORMATION REQUEST COMMAND [ESC] IR ..... 6-168
6.3.33 IP ADDRESS SET COMMAND [ESC] IP ..... 6-169
6.3.34 SOCKET COMMUNICATION PORT SET COMMAND [ESC] IS ..... 6-170
6.3.35 DHCP FUNCTION SET COMMAND [ESC] IH ..... 6-171
6.4 COMMANDS FOR SYSTEM ADMINISTRATOR ..... 6-172
6.4.1 PARAMETER SET COMMAND [ESC] Z2; 1 ..... 6-172
6.4.2 FINE ADJUSTMENT VALUE SET COMMAND [ESC] Z2; 2 ..... 6-175
6.4.3 BATCH RESET COMMAND [ESC] ZO ${ }^{\text {(zero) }}$ ..... 6-177
7. CONTROL CODE SELECTION ..... 7-1
8. ERROR PROCESSING ..... 8-1
8.1 COMMUNICATION ERRORS ..... 8-1
8.2 ERRORS IN ISSUING OR FEEDING ..... 8-1
8.3 ERRORS IN WRITABLE CHARACTER AND PC COMMAND SAVE MODES ..... 8-3
9. STATUS RESPONSE ..... 9-1
9.1 SERIAL INTERFACE(RS-232C), USB, BLUETOOTH, LAN ..... 9-1
9.1.1 FUNCTIONS ..... 9-1
9.1.2 STATUS FORMAT ..... 9-1
9.1.3 DETAIL STATUS ..... 9-2
9.1.4 STATUS RESPONSE IN MULTIPLE SOCKET SESSIONS ..... 9-3
9.2 PARALLEL INTERFACE. ..... 9-3
10. LED INDICATIONS ..... 10-1
11. CHARACTER CODE TABLE ..... 11-1
11.1 TIMES ROMAN, HELVETICA, LETTER GOTHIC, PRESTIGE ELITE, COURIER ..... 11-1
11.2 PRESENTATION (Bit map font type: M) ..... 11-8
11.3 OCR-A (Bit map font type: S) ..... 11-12
11.4 OCR-B (Bit map font type: T) ..... 11-19
11.5 TEC OUTLINE FONT 1 (Outline font type: A, B) ..... 11-25
11.6 PRICE FONT 1, 2, 3 (Outline font type: E, F, G) ..... 11-32
11.7 TRUE TYPE FONT ..... 11-33
11.8 GB18030 (2-byte Code) ..... 11-41
11.9 GB18030 (4-byte Code) ..... 11-57
12. BARCODE TABLE ..... 12-1
13. DRAWING OF BARCODE DATA ..... 13-1
14. AUTOMATIC ADDING OF START/STOP CODE ..... 14-1
15. ABOUT USB MEMORY ..... 15-1

## 1. SCOPE

This specification applies to the external equipment interface for use with the models, B-FV4 series generalpurpose thermal label/tag printers.

## 2. GENERAL DESCRIPTION

The external equipment interface connects a printer to the host computer through a serial interface (RS-232C), parallel interface (Centronics), USB, Bluetooth, or a network for making various settings and printing labels.

This specification describes how to use the external equipment interface for the TPCL (TEC Printer Command Language).

The following table shows the system configuration.

| Models |  | Standard model |  |  | Courier model ${ }^{* 1}$ | Linerless model ${ }^{* 1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Memory | Flash ROM | 16 MB |  |  |  |  |
|  | SDRAM | 32 MB |  |  |  |  |
| Interface | Standard | $\begin{aligned} & \text { USB } \\ & \text { LAN } \end{aligned}$ | $\begin{gathered} \text { USB } \\ \text { LAN } \\ \text { RS-232C } \end{gathered}$ | USB <br> Centronics (SPP) | $\begin{gathered} \text { USB } \\ \text { LAN } \\ \text { RS-232C } \end{gathered}$ | $\begin{gathered} \text { USB } \\ \text { LAN } \\ \text { RS-232C } \end{gathered}$ |
|  | Option | Wireless LAN ${ }^{* 1}$ or Bluetooth ${ }^{* 1}$ |  |  |  |  |
| Cutter | Full cut | Optional |  |  | Not applicable |  |
|  | Partial cut | Optional |  |  | Not applicable |  |
|  | Linerless ${ }^{* 1}$ | Not applicable |  |  |  | Optional |
| Peel-off |  | Optional |  |  | Available as standard | Not applicable |

Note *1 These printer model and options will be available in the future.

## 3. INTERFACE

### 3.1 SERIAL INTERFACE


(13) Transmission Control : XON/XOFF (DC1/DC3) Protocol RTS Protocol
(1) XON/XOFF (DC1/DC3) Protocol

- When initialized after power on, this printer becomes ready to receive data.
- The printer sends an XOFF code $(13 \mathrm{H})$ when the blank positions in the receive buffer become 16 K bytes or less.
- The printer sends an XON code $(11 \mathrm{H})$ when the blank positions in the receive buffer are 40 K bytes or more.
- After detecting the XOFF code, the host computer must stop transmission before the printer 16 K receive buffer becomes full.
- The printer sends an XOFF code (13H) when the H/W reset.
(2) RTS Protocol
- When initialized after the power is turned on, this printer turns the RTS signal to "High" (READY).
- The printer turns the RTS signal to "Low" (BUSY) when the blank positions in the receive buffer are 16 K bytes or less.
- The printer turns the RTS signal to "High" (READY) when the blank positions in the receive buffer are 40 K bytes or more.
- After detecting the BUSY signal, the host computer must stop transmission before the printer 16 K receive buffer becomes full.
(14) RS-232 Interface pin configuration

| Printer DB-9P |  | Host(PC) DB-9P |  |
| :---: | :---: | :---: | :---: |
| 1 | +5V | 1 | CD |
| 2 | TXD | 2 | RXD |
| 3 | RXD | 3 | TXD |
| 4 | CTS | 4 | DTR |
| 5 | GND | 5 | GND |
| 6 | RTS | 6 | DSR |
| 7 | N.C. | 7 | RTS |
| 8 | RTS | 8 | CTS |
| 9 | N.C. | 9 | Cl |

Straight cable
(15)

Connector Pin Assignment and Signal Description

| Pin No. | Signal <br> Name |  | Signal Direction |
| :---: | :---: | :--- | :---: |
| 1 | +5 V | Provide the power of 5V |  |
| 2 | TXD | Transmit data | Printer $\rightarrow$ |
| 3 | RXD | Receive data | $\leftarrow$ Host |
| 4 | CTS | Clear to send | $\leftarrow$ Host |
| 5 | GND | General Ground |  |
| 6 | RTS | Request to send | Printer $\rightarrow$ |
| 7 | N.C. | Not connected | Printer $\rightarrow$ |
| 8 | RTS | Request to send |  |
| 9 | N.C. | Not connected |  |

### 3.2 PARALLEL INTERFACE

(1) Type : Centronics
(2) Mode : Conforms to IEEE1284 compatible mode
(3) Data Input Method : Parallel 8 bits (DATA1~8)
(4) Control Signals : ACK, BUSY, SELECT, STB, FAULT, PE
(5) Data Input Code
ASCII code
European character set 8 bit code
Graphics 8 bit code
UTF-8
(6) Receive Buffer : 81920 bytes
(7) Connector : T.B.D.
(8) Connector Pin Diagram:

| Pin No. | Signal Name | Pin No. | Signal Name |
| :---: | :--- | :---: | :--- |
| 1 | STB | 19 | GND |
| 2 | DATA 1 | 20 | GND |
| 3 | DATA 2 | 21 | GND |
| 4 | DATA 3 | 22 | GND |
| 5 | DATA 4 | 23 | GND |
| 6 | DATA 5 | 24 | GND |
| 7 | DATA 6 | 25 | GND |
| 8 | DATA 7 | 26 | GND |
| 9 | DATA 8 | 27 | GND |
| 10 | ACK | 28 | GND |
| 11 | BUSY | 29 | GND |
| 12 | PE | 30 | GND |
| 13 | SELECT | 31 | NC |
| 14 | NC | 32 | FAULT |
| 15 | NC | 33 | GND |
| 16 | GND | GND | 34 |
| 17 | +5V | 35 | NC |
| 18 | 36 | NC |  |



### 3.3 USB INTERFACE

(1) Standard:
(2) Data Transfer Type:
(3) Transfer Rate:
(4) Receive Buffer Size:
(5) Transfer Control Method: diately after [ESC]WB[LF][NUL], as described below. Based on this status response, the host computer can transmit data to prevent the buffer from becoming full. Status to be returned immediately after [ESC]WB[LF][NUL] is sent ( 23 bytes):

| SOH | 01H | Indicates the header of the status block |
| :---: | :---: | :---: |
| STX | 02H |  |
| Status | 3XH | Printer status *Details are described later |
|  | 3XH |  |
| Status type | 33H | Indicates that the status includes the receive buffer free space information. |
| Remaining count | 3XH | Remaining number of labels to be printed *Details are described later |
|  | 3XH |  |
|  | 3XH |  |
|  | 3XH |  |
| Length | 3xH | Total number of bytes of this status block |
|  | 3XH |  |
| Free space of receive buffer | 3XH | Free space of the receive buffer "00000" (0K byte) to "99999" (99999K bytes) However, the maximum value should be the receive buffer capacity. |
|  | 3XH |  |
|  | 3XH |  |
|  | 3XH |  |
|  | 3XH |  |
| Receive buffer capacity | 3XH | Receive buffer capacity "00000" (OK byte) to "99999" (99999K bytes) However, the maximum value is 80 K bytes for B-FV. |
|  | 3XH |  |
|  | 3XH |  |
|  | 3XH |  |
|  | 3XH |  |
| CR | ODH | Indicates the footer of the status block. |
| LF | OAH |  |

### 3.4 NETWORK INTERFACE

Conforming to USB Standard Rev. 2.0
Control transfer, Bulk transfer
Full speed (12Mbps)
5120 bytes

Status with the receive buffer free space information is sent in
(1) Configuration:
(2) Protocol:
(3) Network Specification:
(4) Receive Buffer Size:

10/100BASE LAN
TCP/IP
Socket communication function,
SNMP agent function, DHCP client function
40960 bytes

## 4. KEY OPERATION FUNCTIONS

### 4.1 SYSTEM MODE (POWER UP WITH KEY PRESSED)

There are 8 LED light indications with following sequence.
(1) Solid green(LED1 and LED2) followed by solid orange(LED1 and LED2) indicates the printer has entered into system mode.
(2) Solid green(LED1) and Solid red(LED2)
(3) Solid green(LED1) and Solid orange(LED2)
(4) Solid red(LED1) and Solid red(LED2)
(5) Solid red(LED1) and Solid orange(LED2)
(6) Solid red(LED1) and Solid green(LED2)
(7) Solid orange(LED1) and Solid red(LED2)
(8) Solid orange(LED1) and Solid green(LED2)

* The period of each sequence is 1.5 sec .
4.1.1 Transmissive sensor select \& adjustment (with moving home position)

1) Install a label roll with the sensor located at proper position.
2) Release FEED key at LED light sequence (2) and push FEED key.
3) Transmissive sensor is selected and adjusted. After sensor adjustment, the label stops at the home position.

### 4.1.2 Reflective sensor select \& adjustment (with moving home position)

1) Install a tag roll with the sensor located at proper position.
2) Release FEED key at LED light sequence (3) and push FEED key.
3) Reflective sensor is selected and adjusted. After sensor adjustment, the tag stops at the home position.

### 4.1.3 Parameter clearance

1) Release FEED key at LED light sequence (4) and hold pushing FEED key more than 3 sec.
2) The printer will restore to default setting and reset automatically.
(During executing parameter clear, flashing red (LED1 and LED2) )

| The value is set by parameter clearance | Setting Value |
| :--- | :--- |
| Parameter Name | -3 |
| Tone adjust value(Trans.) | 0 |
| Tone adjust value(Direct) | 0.0 mm |
| Feed adjust value | 0.0 mm |
| Cut adjust value | 0.0 mm |
| Backfeed adjust value | Not clear |
| X-coordinate adjust value | PC-850 |
| Codepage | No slash |
| Zero Font | OxB0 |
| Euro Code | Auto change Mode |
| Control Code | TYPE1(Normally) |
| Maxi Code Spec | 76.2 mm |
| Label Pitch | 104.0 mm |
| Effective print width | 74.2 mm |
| Effective print length | Countinuty print |
| Print mode | $203 d p i: ~ 5 i p s ~ / ~ 300 d p i ~: ~ 4 i p s ~$ |
| Print speed | Transmissive sensor |
| Print sensor select | Disable |
| Auto status response | Not clear |
| Ribbon detect sensor | Feed |
| Feed key | Enable |
| Forward Feed Wait | Not clear |
| Auto Calibration | Disable |
| Auto TPH check | Flash memory |
| PC save auto call mode | Disable |
| Multiple Label | Disable |
| BASIC Interpreter | Not clear |
| Reserved item1 | Not clear |
| Reserved item2 | Not clear |
| Destination | Not clear |
| USB Serial number | Not clear |
| Model Name | Not clear |
| Printer Serial Number | Not clear |
| Total Feed1 | Not clear |
| Total Feed2(for MPS) | Not clear |
| Total Print | Not clear |
| Total Cut | 9600 bps |
| Baud Rate | 8 bit |
| Data Length | Not |
| Stop Bit | XON |
| Parity | Not clear |
| Flow Control | MAC Address |
| IP Address | Subnet Mask |
| Gateway | DHCP |
|  |  |


| DHCP Client ID | FFFFFFFFFFFFFFFFFFFFFFFFFFFF |
| :--- | :--- |
|  | FFFF |
| DHCP Host Name | 0000000000000000000000000000000 |
|  | 0000000000000000000000000000000 |
|  | 0000 |
| Socket | Enable |
| Port Number | 8000 |
| SNMP | Not clear |
| SNMP Trap1 | Not clear |
| Trap1 IP Address | Not clear |
| SNMP Trap2 | Not clear |
| Trap2 IP Address | Not clear |

### 4.1.4 Auto call cancellation

1) Release FEED key at LED light sequence (5) and push FEED key
2) The printer will cancel Auto Call execution. (Refer to 6.3.24)

### 4.1.5 Reserved

### 4.1.6 BASIC mode setting disable

1) Release FEED key at LED light sequence (7) and push FEED key.
2) The printer will cancel BASIC mode.

### 4.1.7 Self-test printing / Dump mode

1) Release FEED key at LED light sequence (8) and push FEED key
2) The printer will execute self-test printing then enter the dump mode.

| B-FV4T-G PRINTER INFO. |  |
| :---: | :---: |
| PROGRAM VERSION | XXJAN20XXB-FV4 V1.0 |
| TPCL VERSION | XXJAN20XX V1.0 |
| CG VERSION | XXJAN20XX V1.0 |
| CHINESE VERSION | XXJAN20XX V1.0 |
| CODEPAGE VERSION | XXJAN20XX V1.0 |
| BOOT VERSION | V1.0 |
| KERNEL FONT VER. | 1. 0.00 |
| [PARAMETERS] |  |
| HW DETECT | [0000000000000000] |
| TONE ADJUST ( T ) | [+00] |
| TONE ADJUST ( D ) | [+00] |
| FEED ADJUST | [+0.0mm] |
| CUT ADJUST | [ +0.0 mm ] |
| BACKFEED ADJUST | [ +0.0 mm ] |
| X COORD. ADJUST | [+0.0mm] |
| CODEPAGE | [PC-850] |
| ZERO SLASH | [0] |
| FEED KEY | [FEED] |
| EURO CODE | [B0] |
| CONTROL CODE | [AUTO] |
| MAXI CODE SPEC. | [TYPE1] |
| SENSOR SELECT | [None] |
| PRINT SPEED | [6ips] |
| FORWARD WAIT | [0N] |
| AUTO CALIB. | [0FF] |
| MULTI LABEL | [0FF] |
| AUTO TPH CHK | [0FF] |
| BASIC | [0FF] |
| Reserved item1 |  |
| Reserved item2 |  |
| FLASH ROM | [16MB] |
| SDRAM | [32MB] |
| USB SERIAL NUM. | [000000000000] |
| [INFORMATION] |  |
| INFORMATION | [XXXXXXXXXXXXXXXXXXXX] |
|  | [XXXXXXXXXXX] |
| TOTAL FEED1 | [0.00km] |
| TOTAL FEED2 |  |
|  | ch] |
| TOTAL PRINT | [0.00km] |
| TOTAL CUT | [0] |
| [RS-232C] |  |
| BAUD RATE | [9600] |
| BIT | [8] |
| STOP BIT | [1] |
| PARITY | [None] |


| FLOW | $[X 0 N / X 0 F F]$ |  |  |
| :--- | :--- | :---: | :---: |
| [LAN] |  |  |  |
| IP ADDRESS | $[192.168 .010 .020]$ |  |  |
| SUBNET MASK | $[255.255 .255 .000]$ |  |  |
| GATEWAY | $[000.000 .000 .000]$ |  |  |
| MAC ADDRESS | $[X X-X X-X X-X X-X X-X X]$ |  |  |
| DHCP | $[0 F F]$ |  |  |
| DHCP CLIENT ID | $[X X X X X X X X X X X X X X X X]$ |  |  |
|  | $[X X X X X X X X X X X X X X X X]$ |  |  |
| DHCP HOST NAME | $[X X X X X X X X X X X X X X X X]$ |  |  |
|  | $[X X X X X X X X X X X X X X X X]$ |  |  |
| SOCKET COMM. | $[0 N]$ |  |  |
| SOCKET PORT | $[8000]$ |  |  |
|  |  |  |  |
|  |  |  |  |

### 4.2 ONLINE MODE FUNCTIONS

The online mode provides the following functions for issuing labels.
(1) Issuing labels (by external equipment interface commands)
(2) Paper feed (by the [FEED] key in idle state) (when feed key setting is [FEED])

When the printer is in cover(head) open state, the printer do not work.
(3) Reprint (by the [FEED] key in idle state) (when feed key setting is [PRINT])

When the printer is in waiting for strip state, the printer hold pushing [FEED] key.
After stripping the final label, the printer reprint.
When the printer is in cover(head) open state, the printer do not work.
(4) Pause (by pressing the [FEED] key while printing)
(5) Cancel pause state (by the [FEED] key in pause state)
(6) Error indication
(7) Error restart

While the printer is in an error state, the [FEED] key functions as restart key.
[Restart / No restart] depends on error status (Refer to 10. LED INDICATIONS)
(8) Upload to USB memory (by holding the [FEED] key for more than 3 sec and release in idle state)

* Parameters
* Dump data \& Log data

This function is enable only when installed USB memory.
(9) BASIC mode

Action of [FEED] key depends on BASIC program.

## 5. TRANSMISSION SEQUENCE

This section describes the outline of the transmission sequence.

### 5.1 INITIALIZATION

Writable characters, logo, and PC interface commands must be stored before the label issue operation.
(1) Storing writable characters and logo


NOTES: (1) The storage of PC commands is only performed if it is required.
(2) When the USB memory is used, and another operation (storing PC interface commands or label issue operation) is performed after storing writable characters or logos, the image buffer will be cleared automatically.
(2) Storing PC interface commands


NOTES: (1) The storage of PC commands is only performed if it is required.
(2) When the USB memory is used, and another operation (storing writable characters or logos, label issue operation) is performed after storing PC interface commands, the image buffer will be cleared automatically.
(3) Select commands to be stored as the occasion demands.

### 5.2 LABEL ISSUE OPERATION

An example of the label issue operation is described below.
(1) Where the Saved Data Call Command is not used:

[ESC] D: Sets the label size.
[ESC] AX: Adjusts the feed length, cut position, and back feed length.
[ESC] AY: Adjusts the print density.
[ESC] T: Feeds one sheet of paper and aligns it with the first printing position.
[ESC] C: Clears the image buffer.
[ESC] LC: Sets the line format and draws it.
[ESC] PC: Sets the bit map font format.
[ESC] PV: Sets the outline font format.
[ESC] XB: Sets the bar code format.
[ESC] RC: Draws bit map font data.
[ESC] RV: Draws outline font data.
[ESC] RB: Draws bar code data.
[ESC] XS: Issues (prints) the label.

NOTES: (1) When placing new paper, the Label Size Set Command and Feed Command must always be sent. When using the same paper after the power is turned off and on, the Label Size Set Command and Feed Command may be omitted.
(2) After the power is turned off and on, the Bit Map Font Format Command, the Outline Font Format Command, and the Barcode Format Command should be sent as occasion demands because they are not protected in memory.
(2) Where the Saved Data Call Command is used:

[ESC] XQ: Calls the label format stored in the flash memory.
[ESC] T: Feeds one sheet of paper and aligns it with the first printing position.
[ESC] RC: Draws bit map font data.
[ESC] RV: Draws outline font data.
[ESC] RB: Draws bar code data.
[ESC] XS: Issues (prints) the label.

NOTES: (1) When placing new paper, the Feed Command must always be sent. When using the same paper after the power is turned off and on, the Feed Command may be omitted.
(2) If the option for "automatic call at power on" for the Saved Data Call Command has previously been selected, the Saved Data Call Command may be omitted after the power is turned off and on.

## 6. INTERFACE COMMANDS

### 6.1 OUTLINE OF COMMANDS

(1) Format of Interface command


- The length from [ESC] to [LF] [NUL] must be as specified by each command.
- There are the following three kinds of control codes:
(1) ESC (1BH), LF ( 0 AH ), NUL $(00 \mathrm{H})$
(2) $\{\quad(7 \mathrm{BH}), \mid \quad(7 \mathrm{CH})$,$\} \quad (7DH)$
(3) Automatic selection
(2) How to use reference


## Function Describes the outline of the function of the command.

Format
Shows the format of the command.
The format designation method should conform to the following rules:

- Each set of small letters (such as aa, bbbb) indicates a parameter item.
- An item enclosed in parentheses may be omitted.
- "..." indicates the repetition of an item.
- Brackets and parentheses are used only in coding, and must not be transmitted in practice.
- Other symbols must always be inserted at the designated positions before being transmitted.

Term
Explains the term(s) used in the format.

- "0 to 999 " described in the entry range indicates that up to 3-digit variable-length entry is allowed. (Entry of "001" or "009" is also possible.) "000 to 999 " indicates that entry must be fixed as 3 digits.

Explanation Explains the command in detail.

## Note

Supplementary explanation of the command.

## Refer to Related commands

Examples Explains the command examples.

## [ESC] T20C30 [LF] [NUL]

The above corresponds to the transfer of the following:

$$
\frac{1 \mathrm{~B}}{[\mathrm{ESC}]} \frac{54}{\mathrm{~T}} \frac{32}{2} \frac{30}{0} \quad \frac{43}{\mathrm{C}} \frac{33}{3} \quad \frac{30}{0} \frac{0 \mathrm{~A}}{[\mathrm{LF}]} \frac{00}{[\mathrm{NUL}]}
$$

(3) Precautions
The commands and parameters described in this specification must always be used. If any
command or parameter other than those covered in this specification is used, the printer
operation will not be guaranteed. The commands must be used in the online mode. If any
command is transmitted in system mode, the printer will not operate.

## NOTES:

1. If a command is not recognized as a command, it is ignored.
e.g.) [ESC] H, [ESC]AA, and so on.
2. If the number of digits of the parameter is specified, when the number of in put digits does not match the specified number of digits, a command error occurs.
3. When a parameter is set to any character/value other than specified characters/values, a command error occurs.
e.g.) In the case that a value should be set for parameter, "0001" is acceptable, however, "000A" results in an error.
In the case that a character should be set for parameter, "A" is acceptable, however, "1" results in an error.
4. If the value range of the parameter is specified, when any value beyond the range is entered, a command error occurs. (Except for the D command)
5. When a parameter is missing, which cannot be omitted, a command error occurs.
6. The parameter should be set to either a value or a character, even if the parameter is defined as "Ignore".
e.g.) a : Ignore

If it is omitted, a command error occurs, except when the parameter is omissible.
If the number of digits of the parameter is specified, when the number of input digits does not match the specified number of digits, a command error occurs.
7. When any value/character other than available values/characters for the parameter function is set, a command error occurs.
e.g.) Parameter "e" for the LC command.
e: Type of line
0 : Line
1: Rectangle
If " 2 " is set to parameter "e", a command error occurs.
8. About $D$ command

1) Parameter "aaaa", "bbbb" and "cccc"

When any value lager than maximum value is entered for these three parameters, the entered value is internally changed to the maximum value.
When any value smaller than minimum value is entered for these tree parameters, the entered value is internally changed to the minimum value.
2) When "aaaa" is smaller than "cccc", a command error occurs.
3) When "aaaa - cccc < 2 mm ", it is internally changed to "cccc $=$ aaaa -2 mm ".

### 6.2 LIST OF COMMANDS

(1) Commands related to setting

Label Size Set Command
(2) Commands related to fine adjustment Position Fine Adjust Command Print Density Fine Adjust Command
(3) Commands related to clear Image Buffer Clear Command Clear Area Command
(4) Commands related to drawing format setting

Line Format Command
Bit Map Font Format Command Outline Font Format Command Barcode Format Command
(5) Commands related to print data

Bit Map Font Data Command Outline Font Data Command Barcode Data Command
(6) Commands related to issue and feed Issue Command Feed Command Eject Command Forward/Reverse Feed Command (Reserved for future)
(7) Commands related to writable characters

Storage Area Allocate Command
Flash Memory Format Command USB memory Format Command Bit Map Writable Character Command
(8) Commands related to check Head broken dots check Command
(9) Commands related to graphics

Graphic Command
(10) Commands related to PC command saving

Save Start Command
Save Terminate Command
Saved Data Call Command
(11) Commands related to control

Reset Command
Batch Reset Command
(12) Commands related to status

Status Request Command
Receive Buffer Free Space Status Request Command
Version Information Acquire Command
USB memory Information Acquire Command
[ESC] D..................................6-5
[ESC] AX.................................6-9
[ESC] AY...............................6-14
[ESC] C.................................6-15
[ESC] XR ..............................6-16
[ESC] LC...............................6-18
[ESC] PC ..............................6-22
[ESC] PV...............................6-36
[ESC] XB...............................6-51
[ESC] RC ..............................6-95
[ESC] RV .............................6-100
[ESC] RB ............................6-103
[ESC] XS.............................6-119
[ESC] T ...............................6-130
[ESC] IB ..............................6-135
[ESC] U1, [ESC] U2.............6-136
[ESC] XF.............................6-138
[ESC] J1..............................6-139
[ESC] JA .............................6-140
[ESC] XD .............................6-141
[ESC] HD .............................6-148
[ESC] SG ............................6-149
[ESC] XO .............................6-157
[ESC] XP.............................6-158
[ESC] XQ ............................6-159
[ESC] WR ...........................6-160
[ESC] ZO .............................6-177
[ESC] WS............................6-161
[ESC] WB............................6-162
[ESC] WV............................6-164
[ESC] WI.............................6-165
(13) Commands related to printer information

Printer Information Store Command
Printer Information Request Command
[ESC] IG
6-167
[ESC] IR
6-168
(14) Commands related to TCP/IP setting

IP Address Set Command
Socket Communication Port Set Command DHCP Function Set Command
(15) Commands related to parameter setting

Parameter Set Command
[ESC] Z2;1
6-172
Fine Adjustment Value Set Command

### 6.3 COMMANDS FOR CREATING APPLICTION

### 6.3.1 LABEL SIZE SET COMMAND [ESC] D

## Function Sets the size of a label or tag.

## Format [ESC] Daaaa, bbbb, cccc (,dddd) [LF] [NUL]

Term aaaa: Pitch length of the label or tag

4 and 5 digits (in 0.1 mm units)
4 digits: 203dpi Max. 9990 ( 999.0 mm) / 300dpi Max. 4572(457.2 mm) 5 digits: 203dpi Max. 09990 ( 999.0 mm) / 300dpi Max. 04572 (457.2mm)
bbbb: Effective print width
Fixed as 4 digits (in 0.1 mm units)
cccc: Effective print length
4 and 5 digits (in 0.1 mm units)
4 digits: 203dpi Max. 9970 ( 997.0 mm) / 300dpi Max. 4552 ( 455.2 mm )
5 digits: 203dpi Max. 09970 ( 9997.0 mm) / 300dpi Max. 04552 (455.2mm) dddd: (Omissible) Function: Ignore

## Explanation

[Labels]



## [Setting range]



* The cut position is 2 mm in front from the edge of the next label/tag.(is not center of gap/black mark)

TT model
[mm]

| Model |  |  | 203 dpi model |  |  | 300 dpi model |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item | Issue mode |  | Batch | Strip | Cutter | Batch | Strip | Cutter |
| Thermal head dot density |  |  | 8 dots/mm (203 dpi) |  |  | 11.8 dots/mm (300 dpi) |  |  |
| Thermal head width |  |  | 108 |  |  | 105.7 |  |  |
| A: Label/tag pitch | Label | Min. | 10 | 25.4 | 25.4 | 10 | 25.4 | 25.4 |
|  |  | Max. | 999 | 152.4 | 999 | 457.2 | 152.4 | 457.2 |
|  | Tag | Min. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
|  |  | Max. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
| B: Label length |  | Min. | 8 | 23.4 | 19.4 | 8 | 23.4 | 19.4 |
|  |  | Max. | 997 | 150.4 | 993 | 455.2 | 150.4 | 451.2 |
| C: Backing paper width/ Tag width |  | Min. | 25.4 |  |  |  |  |  |
|  |  | Max. | 118 |  |  |  |  |  |
| D: Label width |  | Min. | 22.4 |  |  |  |  |  |
|  |  | Max. |  |  |  |  |  |  |
| E: Label-to-label gap length |  | Min. | 2.0 |  | 6.0 | 2.0 |  | 6.0 |
|  |  | Max. |  |  | 6.0 |  |  | 6.0 |
| F: Black mark length |  | Min. | T.B.D. | T.B.D. | T.B.D. | T.B.D. | T.B.D. | T.B.D. |
|  |  | Max. | T.B.D. | T.B.D. | T.B.D. | T.B.D. | T.B.D. | T.B.D. |
| G: Effective print width |  | Min. | 13 |  |  | 13 |  |  |
|  |  | Max. |  | 108 |  |  | 105.7 |  |
| H: Effective print length | Label | Min. | 6 | 21.4 | 17.4 | 6 | 21.4 | 17.4 |
|  | Label | Max. | 995 | 148.4 | 991 | 453.2 | 148.4 | 449.2 |
|  |  | Min. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
|  | Tag | Max. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
| I: Slow up/ down interval |  |  |  |  |  |  |  |  |
|  | Slow |  |  |  |  |  |  |  |
| J: Thickness |  |  | $\begin{gathered} 0.06 \text { to } \\ 0.19 \\ \hline \end{gathered}$ | $\begin{gathered} 0.12 \text { to } \\ 0.14 \\ \hline \end{gathered}$ | $\begin{gathered} 0.06 \text { to } \\ 0.19 \\ \hline \end{gathered}$ | $\begin{gathered} 0.06 \text { to } \\ 0.19 \\ \hline \end{gathered}$ | $\begin{gathered} 0.12 \text { to } \\ 0.14 \\ \hline \end{gathered}$ | $\begin{gathered} 0.06 \text { to } \\ 0.19 \\ \hline \end{gathered}$ |
|  |  |  | $\begin{gathered} 0.06 \text { to } \\ 0.19 \end{gathered}$ | $\begin{gathered} 0.12 \text { to } \\ 0.14 \end{gathered}$ | $\begin{gathered} 0.06 \text { to } \\ 0.19 \end{gathered}$ | $\begin{gathered} 0.06 \text { to } \\ 0.19 \end{gathered}$ | $\begin{gathered} 0.12 \text { to } \\ 0.14 \end{gathered}$ | $\begin{gathered} 0.06 \text { to } \\ 0.19 \end{gathered}$ |

(1) Before changing the label size or type of sensor, the Label Size Set Command must first be transmitted.
(2) The Label Size Set Command is protected in memory (even if the power is turned off).
(3) After sending the Label Size Set Command, one sheet of paper must be fed by the Feed Command ([ESC] T) and must be aligned with the first print position prior to printing.
(4) The origin of drawing coordinates, print stop position (head position at stop), and cut position are determined according to the parameters of the Label Size Set Command as shown in the figure on the preceding page. For the print stop position in strip issue mode, refer to the section of the Position Fine Adjust Command. The effective print area is centered on the label/tag.
(5) Printing cannot be performed in the slow up (1 mm) and slow down (1 mm) areas. Consequently, [A: label/tag pitch] - [H: effective print length] $\geq 2 \mathrm{~mm}$ must be assumed.
(6) The origin of drawing coordinates, print stop position (head position at stop), and cut position are adjustable by the Fine Adjust Commands.
(7) The tag rotation designation of the Issue Command ([ESC] XS) causes the origin of drawing coordinates to be origin (1) in the case of "printing bottom first" and to be origin (2) in the case of "printing top first", as shown in the figure.
(8) The parameters must be as shown in the figure and table. Any value or paper outside the range results in a failure of printing or an error.
(9) The setting for the backing paper width is used for the control of the backing paper rewind motor for a strip issue. Therefore, this setting is not effective for any mode other than strip issue mode

## Examples

(1) Labels

[ESC] D0508, 0760, 0468, 0820 [LF] [NUL]
[ESC] T20C30 [LF] [NUL]
(2) Tags

[ESC] D0762, 0996, 0722 [LF] [NUL]
[ESC] T10C30 [LF] [NUL]

### 6.3.2 POSITION FINE ADJUST COMMAND [ESC] AX

## Function

## Format

Term
[ESC] AX; abbb, cddd, eff [LF] [NUL]
a: Indicates the direction, forward or backward, in which a fine adjustment is to be made.
+: Backward
-: Forward
bbb: Feed value to be finely adjusted.
000 to 500 (in 0.1 mm units)
c: Indicates the direction, forward or backward, in which a cut position (or strip position) fine adjustment is to be made.
+: Backward
-: Forward
If cutter and strip module is not installed, this value is ignored.
ddd: Amount for finely adjusting the cut position (or strip position).
000 to 180 (in 0.1 mm units)
If cutter and strip module is not installed, this value is ignored.
e: Indicates whether the back feed is to be increased or decreased.
+: Increase
-: Decrease
ff: Amount for finely adjusting the back feed. 00 to 99 (in 0.1 mm units)

Explanation [Feed Length Fine Adjustment] (To finely adjust the feed for shifting backward or forward)

[Cut Position Fine Adjustment] (To finely adjust the cut position for shifting backward or forward)



Paper feed direction
[Strip Position Fine Adjustment]

[Back Feed Fine Adjustment] (To finely adjust the back feed for shifting backward or forward)

+3.0 mm


First print position (home position after back feed)



Paper feed direction
(1) The max. fine adjustment values are as follows. However, the max. feed fine adjustment value is limited within the label pitch.

Feed value fine adjustment $\pm 50.0 \mathrm{~mm}$
Cut position (or strip position) fine adjustment............................ $\pm 18.0 \mathrm{~mm}$
Back feed value fine adjustment
$\pm 9.9 \mathrm{~mm}$
(2) After changing the fine adjustment value by this command, one label must be fed by the Feed Command ([ESC] T) to adjust the first print position.
(3) Each fine adjustment value is protected in memory (even if the power is turned off).
(4) If a fine adjustment value is improper, printing will not be performed correctly.

For example, if the back feed fine adjustment value is not set properly, the print positions without cutting and after cutting will be different from each other. If the label is fed back excessively, the paper will not be fed correctly during printing.
In the strip issue mode, the print position may differ between the first label and the second label. The back feed fine adjustment is used to adjust the length so that the label is correctly fed back to the position placed before the forward feed is performed.
(5) The cut position (or the strip position) fine adjustment and back feed value fine adjustment are effective only when the printer is in cut issue or strip issue mode.

## Examples <br> (1) Cut issue



Paper feed direction
[ESC] AX; +020, +035, +10 [LF] [NUL]
[ESC] T21C30 [LF] [NUL]
(2) Strip issue




- Finely adjust the strip position by +2.0 mm .
- Finely adjust the print position by +1.0 mm .

$\begin{array}{cl}\text { Paper feed } & {[E S C] \text { AX; +010, +020, +00 [LF] [NUL] }} \\ \text { direction } & {[E S C] \text { T20D30 [LF] [NUL] }}\end{array}$


### 6.3.3 PRINT DENSITY FINE ADJUST COMMAND [ESC] AY

## Function

Adjusts the automatically set print density.

Format

Term [ESC] AY; abb, c [LF] [NUL]
a: Indicates whether to increase or decrease the density.

+ : Increase (darker)
-: Decrease (lighter)
bb: Print density fine adjustment value 00 to 10 (in units of 1 step)
c: Indicates the mode for fine adjustment, thermal transfer or direct thermal.
0: Thermal transfer
1: Direct thermal

To set the density in thermal transfer print mode to -2 .
[ESC] AY; -02, 0 [LF] [NUL]
To set the density in direct thermal print mode to +3 .
[ESC] AY; +03, 1 [LF] [NUL]

### 6.3.4 IMAGE BUFFER CLEAR COMMADN [ESC] C

## Function <br> Clears the image buffer for drawing characters, lines, barcodes, and graphics.

Format

## Explanation

(1) After changing the label size, the image buffer must be cleared.
(2) The increment/decrement designation (described later) is valid until the Image Buffer Clear Command is transmitted.
(3) The link field designation (described later) is effective until the Image Buffer Clear Command is sent.

Examples [ESC] D0508, 0760, 0468 [LF] [NUL]
[ESC] T20C51 [LF] [NUL]
[ESC] C [LF] [NUL]
[ESC] RC000; ABC [LF] [NUL]
[ESC] RC001; DEF [LF] [NUL]
[ESC] XS; I, 0001, 0002C3000 [LF] [NUL]

### 6.3.5 CLEAR AREA COMMAND [ESC] XR

Function Clears the designated area or reverses the white/black dot pattern in the designated area in the drawing area.

Format [ESC] XR; aaaa, bbbb, cccc, dddd, e [LF] [NUL]

## Term

aaaa: Designated area start point X -coordinate Fixed as 4 digits (in 0.1 mm units)
bbbb: Designated area start point $Y$-coordinate 4 or 5 digits (in 0.1 mm units)
cccc: Designated area end point X -coordinate Fixed as 4 digits (in 0.1 mm units)
dddd: Designated area end point Y -coordinate 4 or 5 digits (in 0.1 mm units)
e: Type of clear
A: Clears the contents in the designated area to zeros.
B: Reverses the white/black dot pattern in the designated area.

## Explanation



Notes
(1) The result is the same even if the start and end point coordinates are reversed.
(2) The result is the same even if the start and end point coordinates are set to an upper right and a lower left points, respectively.
(3) The start and end coordinates of the designated area must be set within the effective print area set by the Label Size Set Command ([ESC] D).
[Effective print area]
[mm]

| Model |  |  | 203 dpi |  |  | 300 dpi |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Batch | Strip | Cutter | Batch | Strip | Cutter |
| Effective print width |  | Min. | 13 |  |  | 13 |  |  |
|  |  | Max. | 108 |  |  | 105.7 |  |  |
| Effective print length | Label | Min. | 6 | 21.4 | 17.4 | 6 | 21.4 | 17.4 |
|  |  | Max. | 995 | 148.4 | 991 | 453.2 | 148.4 | 449.2 |
|  | Tag | Min. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
|  |  | Max. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |

## Examples


[ESC] XR; 0345, 0100, 0762, 0585, A [LF] [NUL]
[ESC] RC000; ABC [LF] [NUL]
[ESC] RC001; DEF [LF] [NUL]
[ESC] XS; I, 0001, 0002C3000 [LF] [NUL]

### 6.3.6 LINE FORMAT COMMAND [ESC] LC

## Function

Sets the line format and draws the line.

Format
[ESC] LC; aaaa, bbbb, cccc, dddd, e, f (, ggg) [LF] [NUL]

## Term

aaaa: Start point X-coordinate Fixed as 4 digits (in 0.1 mm units)
bbbb: Start point Y-coordinate 4 or 5 digits (in 0.1 mm units)
cccc: End point X-coordinate Fixed as 4 digits (in 0.1 mm units)
dddd: End point Y-coordinate 4 or 5 digits (in 0.1 mm units)
e: $\quad$ Type of line
0: Line (horizontal, vertical, slant)
1: Rectangle
f: $\quad$ No. of line width dots 1 to 9 (in 0.1 mm units)
ggg: Radius of rounded corners of rectangles
(Omissible. If omitted, the chamfering process for rectangle corners is not performed.)
Fixed as 3 digits (in 0.1 mm units)

## Explanation


[Print direction: Printing bottom first]

[Print direction: Printing top first]
[Line]
(1) Horizontal line (In the case of $\left|Y_{2}-Y_{1}\right|=0$ )

(2) Vertical line (In the case of $\left|X_{2}-X_{1}\right|=0$ )

(3) Slant line $A\left(\left|X_{2}-X_{1}\right| \leq\left|Y_{2}-Y_{1}\right|\right)$

(4) Slant line $B\left(\left|X_{2}-X_{1}\right|>\left|Y_{2}-Y_{1}\right|\right)$

[Rectangle]
(1) Radius of rounded corners $=000$ or parameter omitted

(2) Radius of rounded corners $\neq 000$

(1) In line designation, a horizontal line, vertical line, or slant line $A / B$ is drawn according to the start and end point coordinates.
(2) The result is the same even if the start and end point coordinates are reversed.
(3) The start and end point coordinates must be set so that the result of line drawing will be within the effective print area set by the Label Size Set Command ([ESC] D).
(4) Programming the radius of the rounded corner is effective only when the type of line is 1 (rectangle). When the type of line is 0 , designation of the radius is ignored. When the type of line is 1 , and the radius of the rounded corner is 000 or omitted, a rectangle is printed.
(5) A circle is assumed when:



|  | Model Issue mode |  | 203 dpi |  |  | 300 dpi |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item | Issue mode |  | Batch | Strip | Cutter | Batch | Strip | Cutter |
| Effective print width |  | Min. | 13 |  |  | 13 |  |  |
|  |  | Max. |  | 108 |  |  | 105.7 |  |
| Effective print length | Label | Min. | 6 | 21.4 | 17.4 | 6 | 21.4 | 17.4 |
|  |  | Max. | 995 | 148.4 | 991 | 453.2 | 148.4 | 449.2 |
|  |  | Min. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
|  | Tag | Max. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |

## Examples


[ESC] C [LF] [NUL]
[ESC] LC; 0200, 0350, 0305, 0050, 0, 4 [LF] [NUL]
[ESC] LC; 0200, 0050, 0200, 0280, 0, 4 [LF] [NUL]
[ESC] XS; I, 0001, 0002C3000 [LF] [NUL]

### 6.3.7 BIT MAP FONT FORMAT COMMAND [ESC] PC

## Function <br> Sets the format indicating on the label at which the bit map font is to be printed and how it

 is to be printed.
## Format

(1) [ESC] PCaaa; bbbb, cccc, d, e, ff (, ghh), ii, j (, Jkkll) (, Mm) (, noooooooooo) (, Zpp) (, Pq) (=rrr------rrr) [LF] [NUL]
(2) [ESC] PCaaa; bbbb, cccc, d, e, ff (, ghh), ii, j (, Jkkll) (, Mm) (, noooooooooo)
(, Zpp) (, Pq) (; ss $\left.\mathrm{si}_{1}, \mathrm{ss}_{2}, \mathrm{ss}_{3},------, s_{20}\right)$ [LF] [NUL]
Term
aaa: Character string number 000 to 199 (two digits, 00 to 99, also acceptable)
bbbb: Print origin of X -coordinate of character string Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of character string 4 or 5 digits (in 0.1 mm units)
d: Character horizontal magnification
1 to 9 (in magnifications)

* Two digit designation enables magnifications in 0.5 units (05 ~ 95: 0.5 to 9.5 magnifications).
The magnification can be designated in 0.1 units between 0.5 to 1 . (06~09: 0.6 to 0.9 magnifications).
d d
L—Designation in 0.5 magnification units : 0 or 5 (5 to 9 , up to 1 magnification) Designation in magnifications : 0 to 9
e: Character vertical magnification
1 to 9 (in magnifications)
* Two digit designation enables magnifications in 0.5 units (05 ~ 95: 0.5 to 9.5 magnifications).
The magnification can be designated in 0.1 units between 0.5 to 1 . (06~09: 0.6 to 0.9 magnifications).

ff: Type of font
A: Times Roman (Medium)
B: Times Roman (Medium)
C: Times Roman (Bold)
D: Times Roman (Bold)
E: Times Roman (Bold)
F: Times Roman (Italic)
G: Helvetica (Medium)
H: Helvetica (Medium)
I: Helvetica (Medium)
J: Helvetica (Bold)
K: Helvetica (Bold)
L: Helvetica (Italic)
M: Presentation (Bold)
N: Letter Gothic (Medium)
O: Prestige Elite (Medium)

203dpi models 300dpi models
12point 8point
15point 10point
15point 10point
18point 12point
21point 14point
18point 12point
9point 6point
15point 10point
18point 12point
18point 12point
21point 14point
18point 12point
27point 18point
14.3point 9.5point
10.5point 7point

| P: | Prestige Elite (Bold) | 15point | 10point |
| :--- | :--- | :---: | ---: |
| Q: | Courier (Medium) | 15point | 10point |
| R: | Courier (Bold) | 18 point | 12point |
| S: | OCR-A | 12point | 12point |
| T: | OCR-B | 12point | 12point |

r: Chinese (24 x 24 dots)
01 (a): Writable character 1 ( $1 \times 1$ dot to $720 \times 720$ dots)
to
40 (a): Writable character 40 ( $1 \times 1$ dot to $720 \times 720$ dots)
51 (a): 2-byte code set writable character 1 ( $1 \times 1$ dot to $720 \times 720$ dots)
to
55 (a): 2-byte code set writable character 5 ( $1 \times 1$ dot to $720 \times 720$ dots)
a: Drive
(Omissible. If omitted, flash ROM on the CPU board is selected.)
0: Flash ROM on the CPU board
1, 2: USB memory (Option)

* Fonts $A$ to $L$ are proportional fonts.
ghh: Fine adjustment of character-to-character space
(Omissible. If omitted, space is adjusted according to the designated font.)
g : Designates whether to increase or decrease the character-to-character space.
+: Increase
-: Decrease
hh: No. of space dots between characters
00 to 99 (in dots)
ii: Rotational angles of a character and character string
00: $\quad 0^{\circ}$ (char.) $\quad 0^{\circ}$ (char.-string)
11: $\quad 90^{\circ}$ (char.) $\quad 90^{\circ}$ (char.-string)
22: $180^{\circ}$ (char.) $180^{\circ}$ (char.-string)
33: $270^{\circ}$ (char.) $270^{\circ}$ (char.-string)
01: $\quad 0^{\circ}$ (char.) $\quad 90^{\circ}$ (char.-string)
12: $90^{\circ}$ (char.) $180^{\circ}$ (char.-string) Available only to the font
23: $180^{\circ}$ (char.) $270^{\circ}$ (char.-string) $\}$ type of r.
30: $270^{\circ}$ (char.) $\quad 0^{\circ}$ (char.-string)
$\mathrm{j}: \quad$ Character attribution
B: Black character
W (aabb): Reverse character
aa: No. of dots from the character string to the end of the black background in the horizontal direction
bb: No. of dots from the character string to the end of the black background in the vertical direction
aa: 01 to 99 (in units of dots)
bb: 01 to 99 (in units of dots)
F (aabb): Boxed character
aa: No. of dots from the character string area to the box in the horizontal direction
bb: No. of dots from the character string area to the box in the vertical direction
aa: 01 to 99 (in units of dots)
bb: 01 to 99 (in units of dots)

C (aa): Stroked out character
aa: No. of dots from the character string area to the end of the stroke aa: 01 to 99 (in units of dots)

* Descriptions in parentheses are omissible.
(If omitted, it is character magnification (the larger one of horizontal or vertical magnifications) $\times 6$ dots.)
JkkIl: Bold character designation
(Omissible. If omitted, this process is not performed.)
kk: $\quad$ No. of horizontal shift dots
00 to 16 (in dots)
II: $\quad$ No. of vertical shift dots
00 to 16 (in dots)
Mm: Type of check digits to be attached.
(Omissible. If omitted, this process is not performed)
m : Type of check digit
0: Modulus 10 (Draws data and check digit)
1: Modulus 43 (Draws data and check digit)
2: DBP Modulus 10 (check digit)
noooooooooo: Increment and decrement
(Omissible. If omitted, incrementing/decrementing is not performed.)
n : Designates whether to increment or decrement.
+ : Increment
-: Decrement
0000000000: Skip value
0000000000 to 9999999999
Zpp: Zero suppression
(Omissible. If omitted, the zero suppression process is not performed.)
pp: No. of zeros to be suppressed 00 to 20

Pq: Alignment (Omissible, If omitted, the alignment is set to left.)
q : Designates the character position
1: Left
2: Center
3: Right
4aaaa: Equal space
aaaa: X direction of character string area 203dpi: 0050 to 1040 (in 0.1 mm units) 300dpi: 0050 to 1057 (in 0.1 mm units)
5aaaabbbcc: Automatic line feed aaaa: Character string area of $X$ direction 0050 to 1040 (in 0.1 mm units) bbb: Line feed length

010 to 500 (in 1 mm units)
cc: Number of lines
01 to 99
rrr------rrr: Data string to be printed (Omissible)
Max. 255 digits
$s s_{1}, s_{2}, s_{3},------, s_{20}: \quad$ Link field No. (Omissible)
01 to 99 (1 to 99 can be also used.)
Up to 20 fields can be designated using commas.
Explanation (1) Character string number
When drawing by the Data Command ([ESC] RC), the format designated by the character string number is selected.
(2) Print origin of coordinates


The print origin of coordinates must be set so that the result of character drawing will be within the effective print area set by the Label Size Set Command ([ESC] D).
[Effective print area]
[mm]

| Item Model |  |  | 203 dpi |  |  | 300 dpi |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Batch | Strip | Cutter | Batch | Strip | Cutter |
| Effective print width |  | Min. | 13 |  |  | 13 |  |  |
|  |  | Max. | 108 |  |  | 105.7 |  |  |
| Effective print length | Label | Min. | 6 | 21.4 | 17.4 | 6 | 21.4 | 17.4 |
|  |  | Max. | 995 | 148.4 | 991 | 453.2 | 148.4 | 449.2 |
|  | Tag | Min. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
|  |  | Max. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |

(3) Horizontal magnification and vertical magnification

[Relationship between drawing coordinates and magnification]

(4) Type of font

A: Times Roman : !"\# S\% $^{\prime}()^{*}+,-. / 0123456789: ;<=>? @ A B C D E F G H I J K L M a b c d e f g h i j k l m A ̊ i \emptyset Æ a ̊ i Æ ~$
B: Times Roman : !"\#\$\%\&'()*+,-./0123456789:;<=>?@A BCDEFGabcdefgÅîØÆåìÆ
C: Times Roman : !"\#\$\%\&'()*+,-./0123456789:;<=>?@ABCDEFGabcdefgÅîØÆåìÆ
D: Times Roman : !"\#\$\% \&' ()*+, $\cdot . / 0123456789: ;<>$ ?@ABCDEFGabcdefgÅîØÆåiÆ






J: Helvetica
!"\#\$\%\&'()*+,-./0123456789@ABCDEFGabcdeÂîøÆåiÆE
K: Helvetica : !"\#\$\%\&0123456789@ABCDEFabcdefÅîØÆåìモ

| L: Helvetica | !"\#\$\%\&'()*+,-./0123456789@ABCDEFGHabcdeÅiØFåiÆ |
| :---: | :---: |
| M: Presentation |  |
| N: Letter Gothic | !"\#\$\%8'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPabcdefghijklmnopAi¢fåif |
| O: Prestige Elite |  |
| P: Prestige Elite |  |
| Q: Courier |  |
| R: Courier |  |
| S: OCR-A |  |
| T: OCR-B | $!^{\prime \prime \# \$ \% \& '() *+,-. / 0123456789: ; ~}<=>$ ? @ABCDEabcdef |
| r: Chinese ( $24 \times 24$ ) |  |

(5) Fine adjustment of character-to-character space

If no character-to-character space is specified or the number of space dots between characters is 0 , drawing will take place according to the horizontal spacing/proportional spacing determined for each character. If character-to-character space is specified, drawing will take place according to the value obtained by adding the character spacing/proportional spacing to the specified value.

(6) Rotational angles of a character and character string

$01,12,23$, and 30 are available only to the font type of $r$.
(7) Selection of character attribution

## A B

Black characters


Boxed characters


Reverse characters

No. of dots in the horizontal direction


Stroked out characters
(8) Bold character designation

(9) Check digit to be attached

When Modulus 10 or Modulus 43 is selected, the check digit of a data row is calculated and attached to the data row for drawing.

When DBP Modulus 10 is selected, the check digit of a data row is calculated and only the check digit is drawn. When the data includes any data other than the numerals, drawing is not performed.

* DBP Modulus 10 is Modulus 10 for Deutsche Bundespost Postdienst only.
(10) Increment/decrement

Printing is performed while the data is incremented or decremented every time a label is issued. Where the data row exceeds the maximum number of digits (40), the data row will not be drawn. When the font type is $51,52,53,54,55$, or $r$, the incrementing/decrementing cannot be designated. (If it is designated, it is ignored, and the printer operates as if there was no designation.)

| Initial value | 0000 | 0000 | 0000 | 0000 | 999999 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| INC/DEC | +10 | +10 | +10 | +10 | +1 |
| Zero suppression | Not designated | 5 | 3 | 0 | 3 |
| 1st label | 0000 | 0000 | $\checkmark 000$ | 0000 | 999999 |
| 2nd label | 0010 | 0010 | $\checkmark 010$ | 0010 | -பー000 |
| 3rd label | 0020 | 0020 | $\checkmark 020$ | 0020 | பபᄃ001 |
| 4th label | 0030 | 0030 | -030 | 0030 | பーப002 |
| 5th label | 0040 | 0040 | $\checkmark 040$ | 0040 | -ப 003 |

Letters and numerals for increment/decrement
For the data string, up to 40 digits (including letters, numerals, and symbols) are possible. Only the numerals are picked up and calculated for incrementing/decrementing, and then are returned to the previous position to draw the data.

Example of increment/decrement calculation

| Initial value | 00000 | A0A0A | 7 A8/9 | A2A0A |
| :--- | :--- | :--- | :--- | :--- |
| INC/DEC | +1 | +1 | +3 | -3 |
| 1st label | 00000 | A0A0A | $7 A 8 / 9$ | A2A0A |
| 2nd label | 00001 | A0A1A | $7 A 9 / 2$ | A1A7A |
| 3rd label | 00002 | A0A2A | $7 A 9 / 5$ | A1A4A |
| 4th label | 00003 | A0A3A | $7 A 9 / 8$ | A1A1A |
| 5th label | 00004 | A0A4A | $8 A 0 / 1$ | A0A8A |

(11) Zero suppression

| No. of zeros to be suppressed | 0 | 1 | 2 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Data | 0000 | 0000 | 0000 | 0A12 | 0123 | 0123 | 0123 |
| Print | 0000 | - 0 | - 00 | -A12 | -123 | 0123 | 0123 |

The leading zero(s) in a data row is replaced by a space(s) according to the designated number of digits. However, if the number of digits to be suppressed is greater than the data row, the data row will be drawn without zero suppression. Where the data row exceeds the maximum number of digits (40), the data row will not be drawn. When the font type is $51,52,53,54,55$, or $r$, zero suppression is not designated. If it is designated, it is ignored, and the printer operates as if there was no designation.
(12) Alignment


If characters are not placed on one line when equal space and automatic line feed is designated, the following steps should be performed.

Decrease the value of the character-to-character space. When characters are not placed on one line if the value is set to 0 , return the value to its default, and then reduce the horizontal magnification for a character by 0.5 .

If characters are still not placed on one line, repeatedly decrease the value of the character-to-character space, and then reduce the horizontal magnification. When characters are not placed on one line if the character magnification is set to 0.5 and the character-to-character space is set to 0 , the field is not drawn. (The same previous field is also not drawn.)
(13) Data string to be printed

Drawing data can be programmed by designating the number of digits after the symbol "=." Up to 255 digits can be printed. If the number of digits exceeds 255 , the excessive data will be discarded.
For the character code table, refer to the character code table mentioned later.
(14) Link field No.

The link field No. can be programmed by designating it after the symbol ";". After the link field No. is designated using the Format Command, the data strings are linked by the Link Field Data Command to draw an image.
Up to 20 fields can be linked.
The following shows an example of linked fields on the two continuous labels.
[Format Command]
[ESC] PC01; ....................... ; 01 [LF] [NUL] : Link field No. 1 is designated
[ESC] PC02; ....................... ; 03 [LF] [NUL] : Link field No. 3 is designated.
[ESC] PC03; ....................... ; 04 [LF] [NUL] : Link field No. 4 is designated.
[ESC] XB01; ....................... ; 03, 04 [LF] [NUL] : Link fields No. 3 and No. 4 are designated.
[ESC] PC04; ....................... ; 02 [LF] [NUL] : Link field No. 2 is designated.
[ESC] PC05; ....................... ; 03 [LF] [NUL] : Link field No. 3 is designated.
[ESC] PC06; ....................... ; 04 [LF] [NUL] : Link field No. 4 is designated.
[ESC] XB02; ........................ ; 03, 04 [LF] [NUL] : Link fields No. 3 and No. 4 are designated.

Designating link field No.
[Data Command]
[ESC] RC; A [LF] B [LF] ABCD [LF] 001 [LF] [NUL]


Link field No. 1

(1) The check digit attach, increment/decrement, and zero suppress processes are performed according to the following priority. If any of the conditions is improper, no drawing will take place.
For example, the zero(s) is replaced by a space(s) as a result of zerל suppression but the modulus 10 designated to be attached cannot be calculated.

Increment/decrement > zero suppression > attachment of check digit
(2) Up to 32 fields for which incrementing/decrementing has been designated can be drawn. If the total of bit map font, outline font or barcode increment/decrement fields exceeds 32, drawing will take place without incrementing/decrementing any excessive field. The field to be incremented or decremented is incremented or decremented until the Image Buffer Clear Command ([ESC] C) is transmitted.

## [Example]

1) Format Command (Increment character string No. 001 (+1))
2) Format Command (No incrementing for character string No. 002)
3) Format Command (Increment character string No. 003 (+2))
4) Image Buffer Clear Command
5) Data Command (Character string No. 001 "0001")
6) Data Command (Character string No. 002 "AB-")
7) Data Command (Character string No. 003 "0100")
8) Issue Command (2 labels)

0001

AB-0100

0002

AB-0102
9) Issue Command (1 label)

0003

AB-0104
10) Image Buffer Clear Command
11) Data Command (Character string No. 002 " 00000 ")
12) Issue Command (1 label)

(3) The Bit Map Font Format Command may be connected to the Outline Font Format Command when transmitted.
[ESC] P C001; 0100, 0150, 1, 1, A, 00, B [LF]
C002; 0350, 0180, 1, 1, A, 00, B [LF]
C005; 0200, 0300, 25, 2, C, +05, 00, B, +0000000001 [LF]
V01; 0500, 0400, 0100, 0100, A, 00, B [LF] [NUL]
(4) When the drawing data is changed per label issue during printing, the field of the drawing data for the previous label is automatically cleared using the character string number, then the next drawing data is printed. Therefore, the character string number which differs according to the drawing fields should be designated. Since the automatic field clear is not performed between the Clear Command ([ESC] C) and Issue Command ([ESC] XS), the fixed data may be drawn using the same character string number. In this case, the Format Command and Data Command should be sent alternately. (After the Issue Command is sent, the fields with the same character string number are automatically cleared until the Clear Command is sent.)
(5) The link field designation is cleared by omitting the link field designation using the same character string No. and reformatting data.
The link field designation can be also cleared by the Image Buffer Clear Command.
(6) A print data string and link field No. cannot be programmed at the same time.
(7) The same character string number cannot be programmed more than once in one format (one page).

## Refer to Bit Map Font Data Command ([ESC] RC) <br> Outline Font Format Command ([ESC] PV) <br> Barcode Format Command ([ESC] XB)

## Examples


[ESC] C [LF] [NUL]
[ESC] PC000; 0200, 0300, 1, 1, A, 00, B=ABCD [LF] [NUL]
[ESC] PC001; 0200, 0125, 1, 1, C, 00, B [LF] [NUL]
[ESC] PC002; 0650, 0550, 2, 2, G, 33, B, +0000000001 [LF] [NUL]
[ESC] RC001; Sample [LF] [NUL]
[ESC] RC002; 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

[ESC] C [LF] [NUL]
[ESC] PC001; 0200, 0300, 1, 1, C, 00, B; 01, 02 [LF] [NUL]
[ESC] PV01; 0650, 0550, 0200, 0150, B, 33, B; 02 [LF] [NUL]
[ESC] XB01; 0200, 0550, 3, 1, 03, 03, 08, 08, 03, 0, 0150; 01, 02 [LF] [NUL]
[ESC] RC; S [LF] 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

### 6.3.8 OUTLINE FONT FORMAT COMMAND [ESC] PV

Function Sets the format to indicate the position on the label, at which the outline font is to be printed and how it is to be printed.
© Fonts other than TrueType font

## Format

(1) [ESC] PVaa; bbbb, cccc, dddd, eeee, f (, ghhh), ii, j (, Mk) (, Immmmmmmmmm) (, Znn) (, Po) (=ppp------ppp) [LF] [NUL]
(2) [ESC] PVaa; bbbb, cccc, dddd, eeee, f (, ghhh), ii, j (, Mk) (, Immmmmmmmmm) (, Znn) (, Po) (; qq $\left.1, q_{2}, q^{2}, \cdots----, q_{20}\right)[L F][N U L]$

Term
aa: Character string number 00 to 99
bbbb: Print origin of X -coordinate of the character string Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y -coordinate of the character string 4 or 5 digits (in 0.1 mm units)
dddd: Character width 0020 to 0850 (in 0.1 mm units)
eeee: Height of the character 0020 to 0850 (in 0.1 mm units)
f: Type of font
A: TEC FONT1 (Helvetica [bold])
B: TEC FONT1 (Helvetica [bold] proportional)
E: Price Font 1
F: Price Font 2
G: Price Font 3
ghhh: Fine adjustment of character-to-character space
(Omissible. If omitted, space is adjusted according to the designated font.)
g: Designates whether to increase or decrease the character-to-character space.
+: Increase
-: Decrease
hhh: No. of space dots between characters 000 to 512 (in dots)
ii: Rotational angles of a character and character string

| $00:$ | $0^{\circ}$ (char.) | $0^{\circ}$ (char.-string) |
| ---: | ---: | :--- |
| 11: | $90^{\circ}$ (char.) | $90^{\circ}$ (char.-string) |
| 22: | $180^{\circ}$ (char.) | $180^{\circ}$ (char.-string) |
| $33:$ | $270^{\circ}$ (char.) | $270^{\circ}$ (char.-string) |

Character attribution
B: Black character
W (aabb): Reverse character
aa: No. of dots from the character string to the end of the black background in the horizontal direction.
bb: No. of dots from the character string to the end of the black background in the vertical direction.
aa: 01 to 99 (in units of dots)
bb: 01 to 99 (in units of dots)
F (aabb): Boxed character
aa: No. of dots from the character string area to the box in the horizontal direction.
bb: No. of dots from the character string area to the box in the vertical direction.
aa: 01 to 99 (in units of dots)
bb: 01 to 99 (in units of dots)
C (aa): Stroked out character
aa: No. of dots from the character string area to the end of the stroke aa: 01 to 99 (in units of dots)

* Descriptions in parentheses are omissible. (If omitted, it is character size (the larger character width or height) $\div 8$ dots.)

Mk: Type of the check digit to be attached
(Omissible. If omitted, the check digit is not drawn.)
k: Type of check digit
0 : Modulus 10 (Draws data and check digit)
1: Modulus 43 (Draws data and check digit)
2: DBP Modulus 10 (Draws check digit only)
Immmmmmmmm: Increment and decrement
(Omissible. If omitted, incrementing/decrementing is not performed.)
I: Designates whether to increment or decrement.
+: Increment
-: Decrement
mmmmmmmmmm: Skip value
0000000000 to 9999999999
Znn: Zero suppression
(Omissible. If omitted, the zero suppression process is not performed.)
nn : No. of zeros to be suppressed 00 to 20

Po: Alignment (Omissible. If omitted, the alignment is set to left.)
o: Designates the character position.
1: Left
2: Center
3: Right
4aaaa: Equal space
aaaa: X direction of character string area 203dpi: 0050 to 1040 (in 0.1 mm units) 300dpi: 0050 to 1057 (in 0.1 mm units)
ppp------ppp: Data string to be printed (Omissible) Max. 255 digits
$\mathrm{qq}_{1}, \mathrm{qq}_{2}, \mathrm{qq}_{3},------\mathrm{qq}_{20}: \quad$ Link field No. (Omissible) 01 to 99 (1 to 99 can be also used.) Up to 20 fields can be designated using commas.

## $\bigcirc$ TrueType font

Format
[ESC] PVaa; bbbb, cccc, dddd, eeee, ff, g (, hiii), jj, k (,Lmm)(=ppp ------ ppp) [LF] [NUL]

Term
aa: Character string number 00 to 99
bbbb: Print origin of $X$-coordinate of the character string Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of the character string 4 or 5 digits (in 0.1 mm units)
dddd: Character width 0020 to 0850 (in 0.1 mm units)
eeee: Height of the character 0020 to 0850 (in 0.1 mm units)
ff: Type of font
01: BalloonPExtBol (File name: Ballp_eb.ttf)
02: BlacklightD (File name: Blklt_rg.ttf)
03: BrushScrD (File name: Brush_rg.ttf)
04: CG Times (File name: Tec_cgt.ttf)
05: CG Times Bold (File name: Tec_cgtb.ttf)
06: CG Times Italic (File name: Tec_cgti.ttf)
07: Clarendon Condensed Bold (File name: Tec_clcd.ttf)
08: FlashPBol (File name: Flash_bd.ttf)
09: Garamond Kursiv Halbfett (File name: Tec_gmkh.ttf)
10: GoudyHeaP (File name: Gdyhp_rg.ttf)
11: GilliesGotDBol (File name: Gilli_bd.ttf)
12: GilliesGotLig (File name: Gilli_It.ttf)
13: NimbusSanNovTUltLigCon (File name: Nsnct_ul.ttf)
14: Ryahd (File name: ryahd.ttf)
15: Ryahd Bold (File name: ryahdbd.ttf)
16: CG Triumvirate (File name: Trium.ttf)
17: CG Triumvirate Condensed Bold (File name: Triumcb.ttf)
18: Univers Medium (File name: Tec_uni.ttf)
19: Univers Bold (File name: Tec_unib.ttf)
20: Univers Medium Italic (File name: Tec_unii.ttf)
21: add_on TrueType font 1 (File name: addttf01.ttf)
22: add_on TrueType font 2 (File name: addttf02.ttf)
23: add_on TrueType font 3 (File name: addttf0e.ttf)
24: add_on TrueType font 4 (File name: addttf04.ttf)
25: add_on TrueType font 5 (File name: addttf05.ttf)
(*1) The font types 21 to 25 are the fonts that a user adds. These fonts can be used by specifying "addttf01.ttf" to "addttf05.ttf" for the file names and installing these in the USB memory.
(*2) For the fonts stored in flash ROM on the CPU board, parameter "ff" for the type of font corresponds to the font type according to the setting made when fonts are stored.
g: $\quad$ Drive
Indicates where the TrueType font files are stored.
0: Flash ROM on the CPU board
1: USB memory (Option)
2: USB memory (Option)
hiiii: Fine adjustment of character-to-character space
(Omissible. If omitted, space is adjusted according to the designated font.)
h: Designates whether to increase or decrease the character-to-character space.
+: Increase
-: Decrease
iii: No. of space dots between characters 000 to 512 (in dots)
jj: Rotational angles of a character and character string
$\begin{array}{rr}00: & 0^{\circ} \text { (char.) } \\ \text { 11: } & 90^{\circ} \text { (char.) } \\ 22: & 180^{\circ} \text { (char.) } \\ 33: & 270^{\circ} \text { (char.) }\end{array}$ ( $\left.\quad \begin{array}{l}0^{\circ} \text { (char.-string) } \\ 90^{\circ} \text { (char.-string) } \\ 180^{\circ} \text { (char.-string) } \\ 270^{\circ} \text { (char.-string) }\end{array}\right)$
k: Character attribution
B: Black character
ppp------ppp: Data string to be printed (Omissible) Max. 255 digits

* TrueType fonts are not included in the standard character generator data. Therefore, they must be installed in flash ROM on the CPU board, or the USB memory. For installation of TrueType font and details, refer to the TrueType Font Specification .
* If Arabic is selected as the character code, letters are written from right to left.


```
Explanation (1) Character string number
When drawing by the Data Command ([ESC] RV), the format designated by the character string number is selected.
(2) Print origin of coordinates
```



- The print origin of coordinates must be set so that the result of character drawing will be within the effective print area set by the Label Size Set Command ([ESC] D).
(3) Type of font

A: TEC FONT1 (Helvetica [bold])

| 0123456789 : ; <= > ? @ABCDEFGHIJKLMNO abcdefghijkImno Cü éâäà à çêèè ï í ì ÄÅ |
| :---: |
|  |  |
|  |  |
|  |  |

B：TEC FONT1（Helvetica［bold］proportional）

## ！＂\＃\＄\％\＆＇（）＊＋，－．／ <br> 0123456789：；＜＝＞？ <br> ＠ABCDEFGHIJKLMNO <br> ＇abcdefghijkImno <br> CüéâäàåcêëèìīîÄ Å

E：Price font 1 （POP font）

$$
\begin{aligned}
& \$ \%,-.1 \\
& 0123456789
\end{aligned}
$$

円 $\mathcal{F}$～

F：Price font 2 （POP font）
\＄\％，－．／
0123456789
円¥～

G：Price font 3 （POP font）
\＄\％，－．／
0123456789
円キ～
(4) Character width and character height



Standard size

(5) Fine adjustment of character-to-character space

If no character-to-character space is specified or the number of space dots between characters is 0 , drawing will take place according to the horizontal spacing/proportional spacing determined for each character. If character-tocharacter space is specified, drawing will take place according to the value obtained by adding the character spacing/proportional spacing to the specified value. When equal space is selected for the alignment, the character-to-character space setting is invalid. (The horizontal spacing/proportional spacing are increased or decreased depending on the character size.)

A B C


A B C
(6) Rotational angles of a character and character string

$0^{\circ}(00)$

$90^{\circ}(11)$

$270^{\circ}(33)$
(7) Selection of character attribution

## A B

Black characters


Boxed characters

No. of dots in the horizontal direction


Reverse characters

No. of dots in the horizontal direction


Stroked out characters
(8) Increment/decrement

Printing is performed while the data is incremented or decremented each time a label is issued. Where the data row exceeds the maximum number of digits (40), the data row will not be drawn.

| Initial value | 0000 | 0000 | 0000 | 0000 | 999999 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| INC/DEC | +10 | +10 | +10 | +10 | +1 |
| Zero suppression | Not designated | 5 | 3 | 0 | 3 |
| 1st label | 0000 | 0000 | $\checkmark 000$ | 0000 | 999999 |
| 2nd label | 0010 | 0010 | -010 | 0010 | -ப=000 |
| 3rd label | 0020 | 0020 | $\checkmark 020$ | 0020 | - 0001 |
| 4th label | 0030 | 0030 | $\checkmark 030$ | 0030 | - -002 |
| 5th label | 0040 | 0040 | -040 | 0040 | -ப=003 |

Letters and numerals for increment/decrement
For the data string, up to 40 digits (including letters, numerals and symbols) are possible. Only the numerals are picked up and calculated for incrementing/ decrementing, and then are returned to the previous position to draw the data.

Example of increment/decrement calculation

| Initial value | 00000 | A0A0A | 7 A8/9 | A2A0A |
| :--- | :--- | :--- | :--- | :--- |
| INC/DEC | +1 | +1 | +3 | -3 |
| 1st label | 00000 | A0A0A | $7 A 8 / 9$ | A2A0A |
| 2nd label | 00001 | A0A1A | $7 A 9 / 2$ | A1A7A |
| 3rd label | 00002 | A0A2A | $7 A 9 / 5$ | A1A4A |
| 4th label | 00003 | A0A3A | 7A9/8 | A1A1A |
| 5th label | 00004 | A0A4A | $8 A 0 / 1$ | A0A8A |

(9) Data string to be printed

Drawing data can be programmed by designating the number of digits after the symbol "=." Up to 255 digits can be printed. When the number of digits exceeds 255 , the excessive data will be discarded.
For the character code table, refer to the character code table mentioned later.
(10) Link field No.

The link field No. can be programmed by designating it after the symbol ";." After the link field No. is designated using the Format Command, the data strings are linked by the Link Field Data Command to draw an image.
Up to 20 fields can be linked.
The following shows an example of linked fields on the two continuous labels.
[Format Command]
[ESC] PV01; ....................... ; 01 [LF] [NUL] : Link field No. 1 is designated.
[ESC] PV02; ....................... ; 03 [LF] [NUL] : Link field No. 3 is designated.
[ESC] PV03; ....................... ; 04 [LF] [NUL] : Link field No. 4 is designated.
[ESC] XB01; ....................... ; 03, 04 [LF] [NUL] : Link fields No. 3 and No. 4 are designated.
[ESC] PV04; ........................ ; 02 [LF] [NUL] : Link field No. 2 is designated.
[ESC] PV05; ....................... ; 03 [LF] [NUL] : Link field No. 3 is designated.
[ESC] PV06; ...................... ; 04 [LF] [NUL] : Link field No. 4 is designated.
[ESC] XB02; ....................... ; 03, 04 [LF] [NUL] : Link fields No. 3 and No. 4 are designated.

Designating link field No.
[Data Command]
[ESC] RV; A [LF] B [LF] ABCD [LF] 001 [LF] [NUL]

(1) The check digit attach, increment/decrement, and zero suppress processes are performed according to the following priority. If any of the conditions is improper, no drawing will take place.
$\left[\begin{array}{l}\text { For example, the zero(s) is replaced by a space(s) as a result of zero } \\ \text { suppression but the modulus } 10 \text { designated to be attached cannot be calculated. }\end{array}\right]$
Increment/decrement > zero suppression > attachment of check digit
(2) Up to 32 fields for which incrementing/decrementing has been designated can be drawn. If the total of bit map font, outline font, or barcode increment/decrement fields exceeds 32, drawing will take place without incrementing/decrementing any excessive field. The field to be incremented or decremented is incremented or decremented until the Image Buffer Clear Command ([ESC] C) is transmitted.

## [Examples]

1) Format Command (Increment character string No. 01 (+1))
2) Format Command (No incrementing for character string No. 02)
3) Format Command (Increment character string No. 03 (+2))
4) Image Buffer Clear Command
5) Data Command (Character string No. 01 " 0001 ")
6) Data Command (Character string No. 02 "AB-")
7) Data Command (Character string No. 03 " 0100 ")
8) Issue Command (2 labels)

0001

AB-0100

0002
AB-0102
9) Issue Command (1 label)
0003

AB-0104
10) Image Buffer Clear Command
11) Data Command (Character string No. 02 " 00000 ")
12) Issue Command (1 label)

(3) The Outline Font Format Command may be connected to the Bit Map Font Format Command when transmitted.
[ESC] PC001; 0100, 0150, 1, 1, A, 00, B [LF]
C002; 0350, 0180, 1, 1, A, 00, B [LF]
C005; 0200, 0300, 25, 2, C, +05, 00, B, +0000000001 [LF]
V01; 0500, 0400, 0100, 0100, A, 00, B [LF] [NUL]
(4) When the drawing data is changed per label issue during printing, the field of the drawing data for the previous label is automatically cleared using the character string number, then the next drawing data is printed. Therefore, the character string number which differs according to the drawing fields should be designated. Since the automatic field clear is not performed between the Clear Command ([ESC] C) and Issue Command ([ESC] XS), the fixed data may be drawn using the same character string number. In this case, the Format Command and Data Command should be sent alternately. (After the Issue Command is sent, the fields with the same character string number are automatically cleared until the Clear Command is sent.)
(5) When characters overlap due to the character-to-character space fine adjustment, the outline font is not painted properly. Program the fine adjust value so that characters will not overlap. Also, when drawings such as lines or characters are on the outline font drawing position, the outline font is not painted properly. For font types $A$ and $B$, the fine adjustment value should be set so that other drawings do not overlap the area in which the outline font is to be drawn. For font types C, E, F and G, the fine adjustment value should be set so that other drawings do not overlap the area for the designated character width and height.
(6) The link field designation is cleared by omitting the link field designation using the same character string No. and reformatting data.
The link field designation can be also cleared by the Image Buffer Clear Command.
(7) A print data string and link field No. cannot be programmed at the same time.
(8) The same character string number cannot be programmed more than once in one format (one page).

## Refer to Outline Font Data Command ([ESC] RV) <br> Bit Map Font Format Command ([ESC] PC) <br> Barcode Format Command ([ESC] XB)

## Examples


[ESC] C [LF] [NUL]
[ESC] PV00; 0200, 0300, 0080, 0080, B, 00, B=ABCD [LF] [NUL]
[ESC] PV01; 0200, 0125, 0100, 0100, B, 00, B [LF] [NUL]
[ESC] PV02; 0650, 0550, 0200, 0150, B, 33, B, +0000000001 [LF] [NUL]
[ESC] RV01; Sample [LF] [NUL]
[ESC] RV02; 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

[ESC] C [LF] [NUL]
[ESC] PC001; 0200, 0300, 1, 1, C, 00, B; 01, 02 [LF] [NUL]
[ESC] PV01; 0650, 0550, 0200, 0150, B, 33, B; 02 [LF] [NUL]
[ESC] XB01; 0200, 0550, 3, 1, 03, 03, 08, 08, 03, 0, 0150; 01, 02 [LF] [NUL]
[ESC] RV; S [LF] 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000"; LF\$; NUL\$;

### 6.3.9 BARCODE FORMAT COMMAND [ESC] XB

Function Sets the format to indicate the position on the label, at which the barcode is to be printed and how it is to be printed.

○ In the case of WPC, CODE93, CODE128, UCC/EAN128, POSTNET, RM4SCC, KIX CODE (WPC is the generic name for barcodes of JAN, EAN and UPC.)

Format (1) [ESC] XBaa; bbbb, cccc, d, e, ff, k, IIII (, mnnnnnnnnnn, ooo, p, qq) (= sss ------ sss) [LF] [NUL]
(2) [ESC] XBaa; bbbb, cccc, d, e, ff, k, IIII (, mnnnnnnnnnn, ooo, p, qq)
(; $\mathrm{tt}_{1}, \mathrm{tt}_{2}, \mathrm{tt}_{3},-----, \mathrm{tt}_{20}$ ) [LF] [NUL]
Term aa: Barcode number
00 to 31
bbbb: Print origin of $X$-coordinate of the barcode Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of the barcode 4 or 5 digits (in 0.1 mm units)
d: Type of barcode
0: JAN8, EAN8
5: JAN13, EAN13
6: UPC-E
7: EAN13 + 2 digits
8: EAN13 + 5 digits
9: CODE128 (with auto code selection)
A: CODE128 (without auto code selection)
C: CODE93
G: UPC-E + 2 digits
H: UPC-E +5 digits
I: EAN8 + 2 digits
J: EAN8 + 5 digits
K: UPC-A
L: UPC-A + 2 digits
M: UPC-A + 5 digits
$\mathrm{N}: \quad$ UCC/EAN128
U: POSTNET (Postal code for U.S)
V: RM4SCC (ROYAL MAIL 4 STATE CUSTOMER CODE)
(Postal code for U.K)
W: KIX CODE (Postal code for Belgium)
d: USPS Intelligent mail barcode
e: Type of check digit
1: Without attaching check digit
2: Check digit check
WPC Modulus 10

CODE93 Modulus 47
CODE128 PSEUDO 103
3: Check digit auto attachment (1)
WPC Modulus 10

CODE93 Modulus 47
CODE128 PSEUDO 103
UCC/EAN128 Modulus 10 + Modulus 103
POSTNET Special check digit
RM4SCC Special check digit
4: Check digit auto attachment (2) WPC Modulus 10 + Price C/D 4 digits

5: Check digit auto attachment (3) WPC Modulus 10 + Price C/D 5 digits

* For the POSTNET, RMC4SCC, and USPS Intelligent mail barcode, only "3: Check digit auto attachment (1)" is effective.
ff: 1-module width
01 to 15 (in dots)
k : Rotational angle of barcode
0: $0^{\circ}$
1: $90^{\circ}$
2: $180^{\circ}$
3: $270^{\circ}$
IIII: Height of the barcode
0001 to 1000 (in 0.1 mm units)
For the POSTNET, RMC4SCC, KIX CODE, and USPS Intelligent mail barcode, the height of the long bar is specified.
mnnnnnnnnnn: Increment/decrement (Omissible. If omitted, incrementing/decrementing is not performed.)
m : Indicates whether to increment or decrement
+: Increment
-: Decrement
nnnnnnnnnn: Skip value 0000000000 to 9999999999

000: Length of WPC guard bar
(Omissible. If omitted, the guard bar is not attached.)
000 to 100 (in 0.1 mm units)
p: $\quad$ Selection of print or non-print of numerals under bars
(Omissible. If omitted, the numerals under the bars are not printed.)
0 : Non-print
1: Print
qq: $\quad$ No. of zeros to be suppressed
(Omissible. If omitted, the zero suppression process is not performed.) 00 to 20
sss ------ sss: Data string to be printed (Omissible)
Max. 126 digits. However, it varies depending on the type of barcode.
$\mathrm{tt}_{1}, \mathrm{tt}_{2}, \mathrm{tt}_{3},-----. \mathrm{tt}_{20}: \quad$ Link field No. (Omissible)
01 to 99 (1 to 99 can be also used.)
Up to 20 fields can be designated using commas.

* Omissible parameters (such as "Increment/decrement", "Selection of print or non-print of numerals under bars" and "No. of zeros to be suppressed") cannot be set when the postal code (POSTNET, RM4SCC, KIX CODE, and USPS Intelligent mail barcode) is selected.
© In the case of MSI, Interleaved 2 of 5, CODE39, NW7, and Industrial 2 of 5


## Format

(1) [ESC] XBaa; bbbb, cccc, d, e, ff, gg, hh, ii, jj, k, IIII (, mnnnnnnnnnnn, p, qq) (, r) (=sss------sss) [LF] [NUL]
(2) [ESC] XBaa; bbbb, cccc, d, e, ff, gg, hh, ii, jj, k, IIII (, mnnnnnnnnnn, p, qq) (, r) (; $\left.\mathrm{tt}_{1}, \mathrm{tt}_{2}, \mathrm{tt}_{3},-----, \mathrm{tt}_{20}\right)$ [LF] [NUL]

Term
aa: Barcode number 00 to 31
bbbb: Print origin of $X$-coordinate of the barcode Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of the barcode 4 or 5 digits (in 0.1 mm units)
d: Type of barcode
1: MSI
2: Interleaved 2 of 5 (ITF)
3: CODE39 (standard)
4: NW7
B: CODE39 (full ASCII)
O: Industrial 2 of 5
e: Type of check digit
1: Without attaching check digit
2: Check digit check

| CODE39 | Modulus 43 |
| :--- | :--- |
| MSI | IBM modulus 10 |
| ITF | Modulus 10 |
| Industrial 2 of 5 | Modulus check character |

3: Check digit auto attachment (1)
CODE39 Modulus 43

MSI IBM modulus 10
ITF Modulus 10
Industrial 2 of 5 Modulus check character
4: Check digit auto attachment (2)
MSI IBM modulus $10+$ IBM modulus 10
ITF DBP Modulus 10
5: Check digit auto attachment (3)
MSI IBM modulus $11+$ IBM modulus 10
ff: Narrow bar width
01 to 99 (in dots)
gg: $\quad$ Narrow space width 01 to 99 (in dots)

* In the case of industrial 2 of 5 , an element-to-element space is designated.
hh: Wide bar width
01 to 99 (in dots)
ii: Wide space width 01 to 99 (in dots)
* In the case of industrial 2 of 5 , the value is fixed to 00 .
jj: Character-to-character space width 01 to 99 (in dots)
* In the case of MSI and ITF, character-to-character space width is set to 00 .
k: Rotational angle of barcode
0: $0^{\circ}$
1: $90^{\circ}$
2: $180^{\circ}$
3: $270^{\circ}$
IIII: Height of the barcode
0000 to 1000 (in 0.1 mm units)
mnnnnnnnnnnn: Increment/decrement (Omissible. If omitted, incrementing/decrementing is not performed.)
m : Indicates whether to increment or decrement
+: Increment
-: Decrement
nnnnnnnnnn: Skip value 0000000000 to 9999999999
p: $\quad$ Selection of print or non-print of numerals under bars
(Omissible. If omitted, the numerals under the bars are not printed.)
0: Non-print
1: Print
qq: $\quad$ No. of zeros to be suppressed (Omissible. If omitted, the zero suppression process is not performed.) 00 to 20
r: Designates the attachment of start/stop code (Omissible. If omitted, the start/stop code is automatically attached.)
T: Attachment of start code only
P: Attachment of stop code only
N : Start/stop code unattached
sss------sss: Data string to be printed (Omissible)
Max. 126 digits. However, the number of digits varies depending on the type of barcode.
$\mathrm{tt}_{1}, \mathrm{tt}_{2}, \mathrm{tt}_{3}, \cdots----, \mathrm{tt}_{20}$ : Link field No. (Omissible)
01 to 99 (1 to 99 can be also used.)
Up to 20 fields can be designated using commas.
© In the case of GS1 DataBar


## Format

(1) [ESC] XBaa; bbbb, cccc, d, e, ff, g, hhhh (, ijijjijijijj, kk) (,SII) (= sss ------ sss) [LF] [NUL]
[ESC] XBaa; bbbb, cccc, d, e, ff, g, hhhh (, Muuu------uuu,vwww------www) (, SII) (=sss------sss)[LF][NUL]
(2) [ESC] XBaa; bbbb, cccc, d, e, ff, g, hhhh (, ijijjijijijjj, kk) (,SII) (; $\left.\mathrm{tt}_{1}, \mathrm{tt}_{2}, \mathrm{tt}_{3},------, \mathrm{tt}_{20}\right)$ [LF] [NUL]
[ESC] XBaa; bbbb, cccc, d, e, ff, g, hhhh (, Muuu------uuu,vwww------www) (, SII)
(; $\left.\mathrm{tt}_{1}, \mathrm{tt}_{2}, \mathrm{tt}_{3},-----, \mathrm{tt}_{20}\right)[\mathrm{LF}][\mathrm{NUL}]$
Term
aa: Barcode number 00 to 31
bbbb: X-coordinate of the print origin of barcode Fixed as 4 digits (in 0.1 mm units)
cccc: Y-coordinate of the print origin of barcode 4 or 5 digits (in 0.1 mm units)
d: $\quad$ Type of barcode b: GS1 DataBar family
e: Version (Type of GS1 DataBar)
1: GS1 DataBar Omnidirectional/GS1 DataBar Truncated
2: GS1 DataBar Stacked
3: GS1 DataBar Stacked Omnidirectional
4: GS1 DataBar Limited
5: GS1 DataBar Expanded
6: GS1 DataBar Expanded Stacked
7: UPC-A
8: UPC-E
9: EAN-13
A: EAN-8
B: UCC/EAN-128 with CC-A or CC-B
C: UCC/EAN-128 with CC-C

* When a composite component is printed, the linear barcode data is separated from the 2D code data with "|" (7CH). Data = Linear barcode data | 2D code data
ff: 1-module width 01 to 15 (in units of dots)
* This data is also used for the height of a row of 2D codes.

Height of a row $=(1$-module width $\times 2)$ dots
$\mathrm{g}: \quad$ Rotational angle of barcode
0: $0^{\circ}$
1: $90^{\circ}$
2: $180^{\circ}$
3: $270^{\circ}$
hhhh: Height of barcode
0000 to 1000 (in 0.1 mm units)
In the case of GS1 DataBar Truncated, set a value obtained by multiplying one module width by 13.

When "0000" is set for the barcode height, no barcode (including guard bar)
and numerals under bar are printed. A barcode printed on the previous label is cleared. Although the barcode height can be set as you like, it is preferable to set the recommended height for each barcode.
ijijjijijjjj: Increment/decrement (Omissible. When omitted, incrementing/decrementing is not performed.) i: Indicates whether to increment or decrement
+: Increment
-: Decrement
ijijijijijj: Skip value 0000000000 to 9999999999

* Increment/decrement cannot be specified when the mask pattern increment/ decrement parameter is specified. When this parameter is set, the mask pattern increment/decrement will be ignored.
* Depending on the barcode type, data that cannot be printed may be generated. In that case, the mask pattern increment/decrement shall be used.
kk: No. of digits after zero suppression
(Omissible. When omitted, zero suppression is not performed.)
00 to 20
Muuuuu ------ uuuuu: Mask pattern increment/decrement
(Omissible. When omitted, mask pattern incrementing/
decrementing is not performed.)
O or o: Octal number
D or d: Decimal number
H: Hexadecimal number (Capital alphabet letters)
h: Hexadecimal number (Small alphabet letters)
A: Alphabet (Capital alphabet letters)
a: Alphabet (Small alphabet letters)
$\mathrm{N}: \quad$ Alphanumerals (Capital alphabet letters)
n : Alphanumerals (Small alphabet letters)
\%: Skip character
* Mask pattern increment/decrement cannot be specified when the increment/ decrement parameter is specified. When the increment/decrement parameter is set, the mask pattern increment/decrement will be ignored.
* Up to 40 digits can be specified.
* Up to 32 fields can be specified per label.
vwww ------ www:Mask pattern increment/decrement skip value (Omissible)
* Enabled only when the mask pattern increment/decrement parameter is set.
v : Whether to increment or decrement
+ : Increment
-: Decrement
www ------ www: Skip value (It depends on the mask pattern character to be separate incremented/decremented.)

O or o: 0 to 7
D or d: 0 to 9
H: $\quad 0$ to 9 , A to $F$
h: $\quad 0$ to 9 , a to $f$
A: $\quad$ A to $Z$
a: $\quad$ a to $z$
$\mathrm{N}: \quad 0$ to $9, \mathrm{~A}$ to Z

| $\mathrm{n}:$ | 0 to 9, a to $z$ |
| :--- | :--- |
| $\%:$ | 0 |

* Up to 40 digits can be specified.
* When the number of digits of the mask pattern and that of the skip value do not match, the processing is performed from the right-most digit.
* When omitted, the lowest digit will be incremented by 1.

SII: Segment width (Omissible. When omitted, "04" is specified.) 02 to 22 (Even number only. Specifying an odd number causes a command error.)
This parameter is effective only when the version (type of GS1 DataBar) is set to "6: GS1 DataBar Expanded Stacked."
Setting this parameter to "22" makes the symbol look similar to the GS1 DataBar Expanded.

```
sss ------ sss: Data string to be printed (Omissible)
                                    Max. }2000\mathrm{ digits. However, it varies depending on the type of barcode.
                            (Refer to the max. number of characters per barcode.)
                        The printer receives data up to the command terminator ([LF][NUL]),
                        but may not print barcodes depending on the version because the
                        number of effective characters and effective character code are
                        different.
```

```
tt
01 to 99 (1 to 99 can also be used.)
Up to 20 fields can be designated using commas.
```


## Explanation

Mask pattern increment/decrement

Example) Only the lowest 3 digits out of 10-digit data are to be incremented:
Mask pattern = M\%\%\%\%\%\%\%DDD,+0000000001
$\mathrm{ABC} 0000123 \rightarrow \mathrm{ABC0000124} \rightarrow \ldots \rightarrow \mathrm{ABC0000998} \rightarrow \mathrm{ABC} 0000999 \rightarrow \mathrm{ABC} 0000001 \ldots$
Mask pattern $=\mathrm{M} \% \% \% \% \% \% \%$ DDN,+0000000001
$\mathrm{ABC000012A} \rightarrow \mathrm{ABC000012B} \rightarrow \ldots \rightarrow \mathrm{ABC000099Y} \rightarrow \mathrm{ABC000099Z} \rightarrow \mathrm{ABC0000000}$

Example) Only the 4 digits in the middle of 10-digit data are to be incremented:
Mask pattern = M\%\%\%hhhh\%\%\%,+0000001000
$0001119000 \rightarrow 000111 \mathrm{aOO0} \rightarrow \ldots \rightarrow 000 \mathrm{fffe} 000 \rightarrow 000 \mathrm{ffff000} \rightarrow 0000000000$
Mask pattern $=$ M\%\%\%AAAA\%\%\%,+0000001000
000AAAA000 $\rightarrow$ 000AAAB000 $\rightarrow \ldots \rightarrow 000 Z Z Z Y 000 \rightarrow 000 Z Z Z Z 000 \rightarrow$ 000AAAA000

Example) Only the highest 3 digits out of 10-digit data are to be decremented:
Mask pattern = MAAA\%\%\%\%\%\%\%,-0010000000
AAA0000123 $\rightarrow$ ZZZ0000123 $\rightarrow$ ZZY0000123 $\rightarrow \ldots \rightarrow$ AAB0000123 $\rightarrow$ AAA0000123
Mask pattern $=$ Mooo\%\%\%\%\%\%\%,-0010000000
000000012A $\rightarrow$ 777000012A $\rightarrow$ 776000012A $\rightarrow \ldots \rightarrow 001000012 A \rightarrow 000000012 A$
$\odot$ In the case of Data Matrix (Two-dimensional code)

Format
(1) [ESC] XBaa; bbbb, cccc, d, ee, ff, gg, h (, Ciiijjj) (, Jkkllmmmnnn) (= ooo ------ooo) [LF] [NUL]
(2) [ESC] XBaa; bbbb, cccc, d, ee, ff, gg, h (, Ciiijjj) (, Jkkllmmmnnn)
$\left(=\mathrm{pp}_{1}, \mathrm{pp}_{2}, \mathrm{pp}_{3},-----, \mathrm{pp}_{20}\right)[\mathrm{LF}][\mathrm{NUL}]$

## Term

aa: Barcode number 00 to 31
bbbb: Print origin of $X$-coordinate of the barcode Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of the barcode 4 or 5 digits (in 0.1 mm units)
d: $\quad$ Type of barcode
Q: Data Matrix (Two-dimensional code)
ee: ECC type
20: ECC200
ff: 1-cell width 00 to 99 (in dots)
gg: Format ID
No function(ignore)
h: Rotational angle of barcode
0 : $0^{\circ}$
1: $90^{\circ}$
2: $180^{\circ}$
3: $270^{\circ}$
Ciiijjj: No. of cells
(Omissible. If omitted, it is automatically set.)
iii: No. of cells in $X$ direction $\quad 000$ to 144
jij: No. of cells in Y direction 000 to 144

* Cell setting varies according to the ECC type.

|  | ECC200 |
| :--- | :--- |
| No. of cells to be <br> designated | Even numbers only |
| Min./Max. No. of cells | $10 \times 10$ to $144 \times 144$ |
| Rectangular code | $18 \times 8$ |
|  | $32 \times 8$ |
|  | $26 \times 12$ |
|  | $36 \times 12$ |
|  | $36 \times 16$ |
|  | $48 \times 16$ |

- When this parameter is omitted, the number of cells is automatically set. Also, when any data other than the above values is designated for the number of cells in X and Y directions, the number of cells is automatically set.


## Connection setting

(Omissible. No connection if this parameter is omitted.)
kk: Code number 01 to 16
II: $\quad$ No. of divided codes $\quad 02$ to 16
mmm: ID number 1001 to 254
nnn: ID number 2001 to 254
000 ------ 000: Data string to be printed (Omissible)
Max. 2000 digits.
pp1, pp2, pp3, ------, pp20: Link field No. (Omissible)
01 to 99 (1 to 99 can also be used.)
Up to 20 fields can be designated using commas.

○ In the case of PDF417 (Two-dimensional code)

## Format

(1) [ESC] XBaa; bbbb, cccc, d, ee, ff, gg, h, iiii (=jjj------jjj) [LF] [NUL]
(2) [ESC] XBaa; bbbb, cccc, d, ee, ff, gg, h, iiii (; $\mathrm{kk}_{1}, \mathrm{kk}_{2}, \mathrm{kk}_{3},------, k_{20}$ ) [LF] [NUL]

## Term

aa: Barcode number 00 to 31
bbbb: Print origin of X-coordinate of the barcode Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of the barcode 4 or 5 digits (in 0.1 mm units)
d: Type of barcode P: PDF417 (Two-dimensional code)
ee: Security level
00: Level 0
01: Level 1
02: Level 2
03: Level 3
04: Level 4
05: Level 5
06: Level 6
07: Level 7
08: Level 8
ff: 1-module width 01 to 10 (in dots)
gg: $\quad$ No. of columns (strings) 01 to 30
h: Rotational angle of barcode
0 : $0^{\circ}$
1: $90^{\circ}$
2: $180^{\circ}$
3: $270^{\circ}$
iiii: Bar height
0000 to 0100 (in 0.1 mm units)
jjj-----jjj: Data string to be printed (Omissible)
Max. 2,000 digits
$\mathrm{kk}_{1}, \mathrm{kk}_{2}, \mathrm{kk}_{3},------, \mathrm{kk}_{20}$ : Link field No. (Omissible) 01 to 99 (1 to 99 can be also used.)
Up to 20 fields can be designated using commas.
© In the case of MicroPDF417 (Two-dimensional code)

## Format

(1) [ESC] XBaa; bbbb, cccc, d, ee, ff, gg, h, iiii (=jjj------jjj) [LF] [NUL]
(2) [ESC] XBaa; bbbb, cccc, d, ee, ff, gg, h, iiii (; $\mathrm{kk}_{1}, \mathrm{kk}_{2}, \mathrm{kk}_{3},-----, k_{20}$ ) [LF] [NUL]

## Term

> aa: $\quad$ Barcode number 00 to 31
bbbb: Print origin of X-coordinate of the barcode Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of the barcode 4 or 5 digits (in 0.1 mm units)
d: Type of barcode X: MicroPDF417 (Two-dimensional code)
ee: Security leve
00: Fixed
ff: 1-module width
01 to 10 (in dots)
gg: No. of columns/rows
00 to 38
h: Rotational angle of barcode
0: $0^{\circ}$
1: $90^{\circ}$
2: $180^{\circ}$
3: $270^{\circ}$
iiii: Bar height
0000 to 0100 (in 0.1 mm units)
jjj-----jjj: Data string to be printed (Omissible) Max. 366 digits
$\mathrm{kk}_{1}, \mathrm{kk}_{2}, \mathrm{kk}_{3},------\mathrm{kk}_{20}$ : Link field No. (Omissible) 01 to 99 (1 to 99 can also be used.)
Up to 20 fields can be designated using commas.

The maximum number of columns and rows for the MicroPDF417

| $\begin{gathered} \text { Parameter } \\ (\mathrm{gg}) \\ \hline \end{gathered}$ | No. of columns | No. of rows | Max. number of digits for binary mode | Max. number of digits for upper case letter/space mode | Max. number of digits for numeric mode |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | - | - | 150 | 250 | 366 |
| 01 | 1 | - | 22 | 38 | 55 |
| 02 | 2 | - | 43 | 72 | 105 |
| 03 | 3 | - | 97 | 162 | 237 |
| 04 | 4 | - | 150 | 250 | 366 |
| 05 | 1 | 11 | 3 | 6 | 8 |
| 06 |  | 14 | 7 | 12 | 17 |
| 07 |  | 17 | 10 | 18 | 26 |
| 08 |  | 20 | 13 | 22 | 32 |
| 09 |  | 24 | 18 | 30 | 44 |
| 10 |  | 28 | 22 | 38 | 55 |
| 11 | 2 | 8 | 8 | 14 | 20 |
| 12 |  | 11 | 14 | 24 | 35 |
| 13 |  | 14 | 21 | 36 | 52 |
| 14 |  | 17 | 27 | 46 | 67 |
| 15 |  | 20 | 33 | 56 | 82 |
| 16 |  | 23 | 38 | 64 | 93 |
| 17 |  | 26 | 43 | 72 | 105 |
| 18 | 3 | 6 | 6 | 10 | 14 |
| 19 |  | 8 | 10 | 18 | 26 |
| 20 |  | 10 | 15 | 26 | 38 |
| 21 |  | 12 | 20 | 34 | 49 |
| 22 |  | 15 | 27 | 46 | 67 |
| 23 |  | 20 | 39 | 66 | 96 |
| 24 |  | 26 | 54 | 90 | 132 |
| 25 |  | 32 | 68 | 114 | 167 |
| 26 |  | 38 | 82 | 138 | 202 |
| 27 |  | 44 | 97 | 162 | 237 |
| 28 | 4 | 4 | 8 | 14 | 20 |
| 29 |  | 6 | 13 | 22 | 32 |
| 30 |  | 8 | 20 | 34 | 49 |
| 31 |  | 10 | 27 | 46 | 67 |
| 32 |  | 12 | 34 | 58 | 85 |
| 33 |  | 15 | 45 | 76 | 111 |
| 34 |  | 20 | 63 | 106 | 155 |
| 35 |  | 26 | 85 | 142 | 208 |
| 36 |  | 32 | 106 | 178 | 261 |
| 37 |  | 38 | 128 | 214 | 313 |
| 38 |  | 44 | 150 | 250 | 366 |

"-" for parameter 00 to 04 indicates that the numbers of columns/rows are automatically set by the printer. In this case, the pattern which has a smaller number of code words is automatically selected. When the numbers of code words is equal, the smaller number of columns is selected.

○ In the case of QR code (Two-dimensional code)

Format
(1) [ESC] XBaa; bbbb, cccc, d, e, ff, g, h (, Mi) (, Kj) (, Jkkllmm) (= nnn --- nnn) [LF] [NUL]
(2) [ESC] XBaa; bbbb, cccc, d, e, ff, g, h (, Mi) $(, \mathrm{Kj})(, \mathrm{Jkkllmm})\left(=00_{1}, 00_{2}, 00_{3}-----0_{20}\right)$ [LF] [NUL]

## Term

aa: Barcode number

00 to 31
bbbb: Print origin of $X$-coordinate of the barcode Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of the barcode 4 or 5 digits (in 0.1 mm units)
d: Type of barcode T: QR code (Two-dimensional code)
e: Designation of error correction level
L: High density level
M: Standard level
Q: Reliability level
H: High reliability level
ff: 1-cell width 00 to 52 (in dots)
g: $\quad$ Selection of mode
M: Manual mode
A: Automatic mode
$\mathrm{h}: \quad$ Rotational angle of the barcode
0: $0^{\circ}$
1: $90^{\circ}$
2: $180^{\circ}$
3: $270^{\circ}$
Mi: Selection of model
(Omissible. If omitted, Model 1 is automatically selected.)
i = 1: Model 1
2: Model 2

Kj: Mask number
(Omissible. If omitted, the number is automatically set.)
j = 0 to 7: Mask number 0 to 7
8: No mask

Jkkllmm: Connection setting
(Omissible. No connection if this parameter is omitted.)
$\mathrm{kk}=01$ to 16: Value indicating which divided code is connected.
II = 01 to 16: Number of divided codes
$\mathrm{mm}=00$ to FF: A value for all data (before divided) to be printed, to which
XOR is applied in units of bytes
nnn --- nnn: Data string to be printed (Omissible)
Model 1 or 2: Max. 2000 digits
001 --- oo20: Link field No. (Omissible)

01 to 99 (1 to 99 can also be used.)
Up to 20 digits can be designated using commas.

○ In the case of MaxiCode (Two-dimensional code)

## Format

(1) [ESC] XBaa; bbbb, cccc, d (, e) (, Jffgg) (, Zh) [LF] [NUL]

Term
aa: Barcode number 00 to 31
bbbb: Print origin of $X$-coordinate of the barcode Fixed as 4 digits (in 0.1 mm units)
cccc: Print origin of Y-coordinate of the barcode 4 or 5 digits (in 0.1 mm units)
d: Type of barcode
Z: MaxiCode (Two-dimensional code)
e: Mode selection (Omissible)

- When the MaxiCode specification setting is set to TYPE1 Default: Mode 2
0: Mode 2
1: $\quad$ Mode 4
2: $\quad$ Mode 2
3: $\quad$ Mode 3
4: $\quad$ Mode 4
5: $\quad$ Mode 2
6: $\quad$ Mode 6
7: $\quad$ Mode 2
8: $\quad$ Mode 2
9: $\quad$ Mode 2
- When the MaxiCode specification setting is set to TYPE2

Default: Mode 2 or Mode 3(*)
0: Mode 2 or Mode 3(*)

1. Mode 4

2: Mode 2
3: Mode 3
4: $\quad$ Mode 4
5: Mode 2 or Mode 3 (*)
6: Mode 6
7: $\quad$ Mode 2 or Mode 3 (*)
8: $\quad$ Mode 2 or Mode 3 (*)
9: $\quad$ Mode 2 or Mode 3 (*)
*: Mode 2 or Mode 3 shall be determined depending on the country code of the data command. When the country code is 840 , select Mode 2 . For other codes than 840, select Mode 3.

Jffgg: Connection setting (Omissible. No connection if this parameter is omitted.) (If mode 0 or mode 1 is designated, it is ignored.)
ff: Code number 01 to 08
gg: No. of divided codes 01 to 08
$\mathrm{Zh}: \quad$ Attachment of Zipper block and Contrast block (If mode 0 or mode 1 is designated, it is ignored.)
(Omissible. If omitted, they are not attached.)
h= 0: No attachment of Zipper block and Contrast block
1: Attachment of Zipper block and Contrast block
2: Attachment of Zipper block

3: Attachment of Contrast block

## Explanation (1) Barcode number

When drawing by the Data Command ([ESC] RB), the format designated by the barcode is selected.
(2) Print origin of coordinates


The print origin of coordinates must be set so that the result of barcode drawing will be within the effective print area set by the Label Size Set Command ([ESC] D).
[Effective print area] [mm]

| \$ | Model <br> Issue mode |  | 203 dpi |  |  | 300 dpi |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item | Issue mode |  | Batch | Strip | Cutter | Batch | Strip | Cutter |
| Effective print width |  | Min. | 13 |  |  | 13 |  |  |
|  |  | Max. |  | 108 |  |  | 105.7 |  |
| Effective print length | Label | Min. | 6 | 21.4 | 17.4 | 6 | 21.4 | 17.4 |
|  |  | Max. | 995 | 148.4 | 991 | 453.2 | 148.4 | 449.2 |
|  |  | Min. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
|  | Tag | Max. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |

(3) Type of barcode

0: JAN8, EAN8


2: Interleaved 2 of 5


4: NW7


6: UPC-E


8: EAN13 +5 digits


B: CODE39 (Full ASCII)

1: MSI


3: CODE39 (standard)


5: JAN13, EAN13


7: EAN13 + 2 digits


9: A: CODE128


C: CODE93

G: UPC-E + 2 digits


I: EAN8 + 2 digits


K: UPC-A


H: UPC-E + 5 digits


J: EAN8 + 5 digits


L: UPC-A + 2 digits


M：UPC－A＋ 5 digits


O：Industrial 2 of 5


Q：Data Matrix


U：POSTNET


W：KIX code

d：USPS Intelligent mail


N：UCC／EAN128


P：PDF417


T：QR code

## 㽞置四 <br> V：RM4SCC

ויון

X：MicroPDF417


Z：MaxiCode

b: GS1 DataBar family
<When no compound composite is printed>
GS1 DataBar (Truncated)


GS1 DataBar Stacked Omnidirectional


GS1 DataBar Expanded


UPC-A


EAN-13


EAN-8


UCC/EAN-128 with CC-A or CC-B or CC-C

<When a compound composite is printed>


GS1 DataBar Stacked Omnidirectional


GS1 DataBar Expanded


UPC-A


EAN-13


GS1 DataBar Stacked


GS1 DataBar Limited


GS1 DataBar Expanded Stacked


UPC-E


EAN-8



UCC/EAN-128 with CC-A or CC-B


UCC/EAN-128 with CC-C


Applicable composite components to each barcode version

| Barcode version (Detailed type) | Composite component version |  |  |
| :--- | :---: | :---: | :---: |
|  | CC-A <br> MicroPDF417 variant | CC-B <br> MicroPDF417 | CC-C <br> PDF417 |
| GS1 DataBar | $\checkmark$ | $\checkmark$ | - |
| GS1 DataBar Truncated | $\checkmark$ | $\checkmark$ | - |
| GS1 DataBar Stacked | $\checkmark$ | $\checkmark$ | - |
| GS1 DataBar Stacked Omnidirectional | $\checkmark$ | $\checkmark$ | - |
| GS1 DataBar Limited | $\checkmark$ | $\checkmark$ | - |
| GS1 DataBar Expanded | $\checkmark$ | $\checkmark$ | - |
| UPC-A | $\checkmark$ | $\checkmark$ | - |
| UPC-E | $\checkmark$ | $\checkmark$ | - |
| EAN-13 | $\checkmark$ | $\checkmark$ | - |
| EAN-8 | $\checkmark$ | $\checkmark$ | - |
| UCC/EAN-128 with CC-A or CC-B | $\checkmark$ | $\checkmark$ | - |
| UCC/EAN-128 with CC-C | - | - | $\checkmark$ |

Selection between CC-A (MicroPDF417 variant) and CC-B (MicroPDF417) is automatically performed Refer to "Max. number of data digits" in Chapter 12 (14) GS1 DataBar Expanded/GS1 DataBar Expanded Stacked.
(4) Type of check digit
(1) Where no check digit is attached, the barcode of the data row will be drawn.
(2) In the case of the check digit check, if each check digit checked according to the type of barcode is normal, the barcode will be drawn. If the check digit not meeting the requirement is designated, the barcode will not be drawn.
(3) In the case of the check digit auto attachment, each check digit is attached according to the type of barcode and the barcode is drawn.
(4) If the type of barcode is CODE93, CODE128 (with auto code selection), or UCC/EAN128, the check digit will always be attached regardless of the designation of the type of check digit.
(5) If the type of barcode is JAN, EAN, or UPC, the designation of no check digit attachment automatically assume the check digit check.
(6) DBP Modulus 10 is Modulus 10 for Deutsche Bundespost Postdienst only.
(5) Bar width, space width, and character-to-character space

Designate the bar, space, and character-to-character space widths according to the type of barcode. Note that the designated proper value differs according to the rotational angle of barcode, type, number of digits, print speed, paper used, etc. Examples of such designations are listed below. ( 1 dot $=1 / 11.8 \mathrm{~mm}$ )

In the case of JAN, EAN, UPC, CODE93, CODE128, UCC/EAN128, PDF417, or MicroPDF417, a 2 to 6 -module width is calculated automatically when a 1-module width is designated.

| Type of barcode | 1 module |  | 2 modules |  | 3 modules |  | 4 modules |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5ar | modules |  | 6 modules |  |  |  |  |
|  | Bar | Space | Bar | Space | Bar | Space | Bar | Space |
| Bar | Space | Bar | Space |  |  |  |  |  |
| JAN, EAN, UPC | 4 | 8 |  | 12 | 16 | - | - |  |
| CODE93 | 3 | 6 | 9 | 12 | - | - |  |  |
| CODE128, EAN128 | 3 | 6 | 9 | 12 | - | - |  |  |
| PDF417 | 3 | 6 | 9 | 12 | 15 | 18 |  |  |
| MicroPDF417 | 2 | 4 | 6 | 8 | 10 | 12 |  |  |


| Type of barcode | Narrow |  | Wide |  | Character-to-character |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | Bar | Space | Bar | Space | space |
| MSI | 3 | 3 | 8 | 8 | 0 |
| ITF | 3 | 3 | 8 | 8 | 0 |
| CODE39 | 3 | 3 | 8 | 8 | 3 |
| NW7 | 3 | 3 | 8 | 8 | 3 |
| Industrial 2 of 5 | 3 | 3 | 8 | 0 | 3 |

When NW7 is used, transmission of the space character assumes the space of (narrow space $\times 12$ ) dots. In this case, the space is max. 255 dots.

In the case of Data Matrix


When 1-cell width is 00 for the Data Matrix, a two-dimensional code is not drawn. However, the two-dimensional code printed on the previous label is cleared.


When the 1 -cell width is 0 , a two-dimensional code is not drawn. However, the barcode printed on the previous label is cleared.

In the case of a postal code

(6) Rotational angle of barcode

Point of origin


$90^{\circ}$

$180^{\circ}$

(7) Barcode height

[GS1 DataBar]
<When no compound composite is printed>

<When a compound composite is printed>

[GS1 DataBar Stacked]
<When no compound composite is printed>

<When a compound composite is printed>

[GS1 DataBar Stacked Omnidirectional]
<When no compound composite is printed>


Height
(The height of the lower bar code is the same as the specified height.)
<When a compound composite is printed>

[GS1 DataBar Limited]
<When no compound composite is printed>

[GS1 DataBar Expanded]
<When no compound composite is printed>

<When a compound composite is printed>

[GS1 DataBar Expanded Stacked]
<When no compound composite is printed>

<When a compound composite is printed>

[UPC-A]
<When no compound composite is printed>

[UPC-E]
<When no compound composite is printed>

[EAN-13]
<When no compound composite is printed>

<When a compound composite is printed>

[EAN-8]
<When no compound composite is printed>

<When a compound composite is printed>

[UCC/EAN-128 with CC-A, CC-B, or CC-C]
<When no compound composite is printed>

<When a compound composite is printed: UCC/EAN-128 with CC-A or CC-B>

<When a compound composite is printed>


When the barcode height is 0000, barcode (including guard bars) and numerals under bars are not drawn. However, the barcode printed on the previous label is cleared.
(8) Length of guard bar

The length of guard bar is valid only when the type of barcode is WPC. It is ignored in any other cases.

(9) Numerals under bars

Numerals are not or provided under bars according the parameter for the presence or absence of numerals under bars. The contents of numerals under bars to be printed vary according to the type of barcode. The character set of numerals under bars is OCR-B. Such numerals are enlarged or reduced only horizontally according to the width of the barcode. They are drawn vertically in the fixed one magnification.
[Drawing positions of numerals under bars]
(1) In the case of JAN and EAN
(Example) EAN13 + 2 digits

(Example) EAN8

(2) In the case of UPC
(Example) UPC-A +2 digits

(Example) UPC-E

(3) In the case of barcodes other than JAN, EAN, and UPC (Example) CODE39

(Example) UCC/EAN128


## (10) Start/Stop Code

- This parameter is valid only when the type of barcode is CODE39 and NW7.
- Where the parameter is designated, the program will not check if the transmit print data is with a start code and stop code.
- When the parameter is omitted in the case of CODE39 and NW7, a start/stop code will be attached. The code to be added is "*" in the case of CODE39, and "a" in the case of NW7.
- For details, refer to "Auto Attachment of Start/Stop Code" to be discussed later in this specification.
(11) Increment/decrement

Printing is performed while the data is incremented or decremented every time a label is issued. Where the data row exceeds the maximum number of digits (40), the data row will not be drawn.

When CODE128 (without auto code selection) is used, the number of the start code (code A , code B , and code C ) digits is regarded as 2 .

| Initial value | 0000 | 0000 | 0000 | 0000 | 999999 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| INC/DEC | +10 | +10 | +10 | +10 | +1 |
| Zero suppression | Not designated | 5 | 3 | 0 | 3 |
| 1st label | 0000 | 0000 | -000 | 0000 | 999999 |
| 2nd label | 0010 | 0010 | $\checkmark 010$ | 0010 | 二ーப000 |
| 3 rd label | 0020 | 0020 | -020 | 0020 | - - 001 |
| 4th label | 0030 | 0030 | $\bigcirc 030$ | 0030 | - -002 |
| 5th label | 0040 | 0040 | $\bigcirc 040$ | 0040 | - 0003 |

Letters and numerals for increment/decrement
For CODE39 (standard), CODE39 (full ASCII), NW-7, CODE93, CODE128, if a data string other than numerals is included in the data, increment/decrement designation is performed. If any code which does not exist in each barcode table is contained in the data, increment/decrement designation is not performed.

Up to 40 digits (including letters, numerals and symbols) are possible. Only the numerals are picked up and calculated for incrementing/decrementing, and then are returned to the previous position to draw the data.

Example of increment/decrement calculation

| Initial value | 00000 | A0AOA | $7 \mathrm{~A} 8 / 9$ | A2AOA |
| :---: | :---: | :---: | :---: | :---: |
| INC/DEC | +1 | +1 | +3 | -3 |
| 1st label | 00000 | A0A0A | $7 \mathrm{~A} 8 / 9$ | A2A0A |
| 2nd label | 00001 | A0A1A | $7 \mathrm{~A} 9 / 2$ | A1A7A |
| 3rd label | 00002 | A0A2A | 7A9/5 | A1A4A |
| 4th label | 00003 | A0A3A | 7A9/8 | A1A1A |
| 5th label | 00004 | A0A4A | $8 A 0 / 1$ | A0A8A |

Example of increment/decrement of data including the special codes of CODE128
Increment/decrement calculation starts from the last digit in the data strings. When the data string to be calculated is numeric, and the next (upper) digit is ">", that is a special code (shown with underline below). The next digit is calculated without incrementing/decrementing these two digits.

Example of increment/decrement calculation of CODE128

| Initial value | 00000 | $00 \geq 08$ | $0 \mathrm{~A} \geq 08$ | $0 \mathrm{~A} 9 \geq 08$ |
| :---: | :---: | :---: | :---: | :---: |
| INC/DEC | +1 | +1 | +1 | +1 |
| 1st label | 00000 | $00 \geq 08$ | $0 \mathrm{~A} \geq 08$ | $0 \mathrm{~A} 9 \geq 08$ |
| 2nd label | 00001 | $00 \geq 09$ | $0 \mathrm{~A} \geq 09$ | $0 \mathrm{~A} 9 \geq 09$ |
| 3rd label | 00002 | $01 \geq 00$ | $1 \mathrm{~A} \geq 00$ | $1 \mathrm{~A} 0 \geq 00$ |
| 4th label | 00003 | $01 \geq 01$ | $1 \mathrm{~A} \geq 01$ | $1 \mathrm{~A} 0 \geq 01$ |
| 5th label | 00004 | $01 \geq 02$ | $1 \mathrm{~A} \geq 02$ | $1 \mathrm{AO} \geq 02$ |

(12) Zero suppression

| No. of zeros to be suppressed <br> No. of zeros to be <br> suppressed | 0 | 1 | 2 | 2 | 3 | 4 | 5 |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Data | 0000 | 0000 | 0000 | 0 A 12 | 0123 | 0123 | 0123 |
| Print | 0000 | $\boxed{-} 0$ | $\boxed{-} 00$ | $\boxed{A 12}$ | -123 | 0123 | 0123 |

The leading zero(s) in a data row is replaced by a space(s) according to the designated number of digits. However, if the number of digits to be suppressed is greater than the data row, the data row will be drawn without zero suppression. Where the data row exceeds the maximum number of digits (40), the data row will not be drawn.

When the print data including start/stop code is sent to sending print data, the start/stop code is also counted as a digit. When the barcode type is JAN, EAN, UPC, UPC/EAN128, MSI, Interleaved 2 of 5 (ITF), Industrial 2 of 5, MATRIX 2 of 5 for NEC, or GS1 DataBar (GS1 DataBar Expanded and GS1 DataBar Expanded Stacked are excluded), the data will be drawn without zero suppression.
(13) Data string to be printed

Drawing data can be programmed by designating the number of digits after the symbol "=." The maximum number of digits to be printed varies according to the types of barcodes. For codes, refer to the barcode table mentioned later.
(14) Link field No.

The link field No. can be programmed by designating it after the symbol ";." After the link field No. is designated using the Format Command, the data string are linked by the Link Field Data Command to draw an image.
Up to 20 fields can be linked.
The following shows an example of linked fields on the two continuous labels.
[Format Command]
[ESC] PC01; ....................... ; 01 [LF] [NUL] : Link field No. 1 is designated
[ESC] PC02; ...................... ; 03 [LF] [NUL] : Link field No. 3 is designated.
[ESC] PC03; ....................... ; 04 [LF] [NUL] : Link field No. 4 is designated.
[ESC] XB01; ....................... ; 03, 04 [LF] [NUL] : Link fields No. 3 and No. 4 are designated.
[ESC] PC04; ....................... ; 02 [LF] [NUL] : Link field No. 2 is designated.
[ESC] PC05; ....................... ; 03 [LF] [NUL] : Link field No. 3 is designated.
[ESC] PC06; ....................... ; 04 [LF] [NUL] : Link field No. 4 is designated.
[ESC] XB02; ....................... ; 03, 04 [LF] [NUL] : Link fields No. 3 and No. 4 are designated.
[Data Command]
[ESC] RB; A [LF] B [LF] ABCD [LF] 001 [LF] [NUL]
Link field No. 4
Link field No. 3
Link field No. 2
Link field No. 1


Explanation for Data Matrix
(1) ECC type

Data Matrix contains a function to correct a code reading error using an error correction code (ECC) and restore normal data. Since there are several ECCs. ECC should be designated according to usage. The general correction ability is as follows. However, it may vary according to the error conditions.

| ECC type | Overhead by ECC |
| :--- | :--- |
| ECC200 | Approx. $30 \%$ |

(2) Format ID

No function (Ignore)
(3) Maximum number of digits

The maximum number of digits varies according to the ECC type. Since each Kanji character uses 2 bytes, the maximum number of digits for it becomes half of the following values.

|  | Numeric | Alphanumeric | 8 bit |
| :---: | :---: | :---: | :---: |
| ECC200 | 2000 | 2000 | 1556 |

For the maximum number of digits in cell units, see the next page.
(4) Connection setting

The connection setting is used to comprise data with a set of two-dimensional codes when the data cannot be expressed with a two-dimensional code. When three twodimensional codes are used to comprise data, identification information of $1 / 3,2 / 3$, and $3 / 3$ is inserted into each two-dimensional code. The ID number is programmed to include a proper combination of two-dimensional codes when one label contains plural connecting symbols. For example, when there are two kinds of data containing identification information for $1 / 2$ and $2 / 2$ in the same label, combination of twodimensional codes is unclear. By adding the ID number, the combination is made clear.

Cell size and the effective data capacity


Rectangular code

|  |  | ECC200 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Symbol size |  | Numeric capacity | Alphanum capacity | 8-bit byte |
| Row | Col |  |  |  |
| 8 | 18 | 10 | 6 | 3 |
| 8 | 32 | 20 | 13 | 8 |
| 12 | 26 | 32 | 22 | 14 |
| 12 | 36 | 44 | 31 | 20 |
| 16 | 36 | 64 | 46 | 30 |
| 16 | 48 | 98 | 72 | 47 |

(1) Security level

The PDF417 contains a function to correct a code reading error using an error correcting code word and restore normal data. The security level should be designated according to usage to perform the error correction function.

For the MicroPDF417, the printer sets the security level automatically.

| Security level | Error Correction Ability | No. of error correction code words |
| :---: | :---: | :---: |
| Level 0 |  | 0 |
| Level 1 | Low | 2 |
| Level 2 | $\uparrow$ | 6 |
| Level 3 |  | 14 |
| Level 4 |  | 30 |
| Level 5 |  | 62 |
| Level 6 |  | 126 |
| Level 7 | High | 254 |
| Level 8 |  | 510 |

(2) No. of columns (strings)

The number of rows is variable in the PDF417. The row length (No. of data strings) is also variable. Therefore, a symbol can be created in a form that can be easily printed, by changing the proportion of the height and width.
The number of columns (data strings) is variable between 1 and 30.
If the number of columns is small when data amount is large and security level is high, drawing may not be performed. This is because the number of rows exceeds 90 when the number of columns becomes small. (When the PDF417 is used, the number of rows of symbols is limited from 3 to 90 .)

For the MicroPDF417, not only the number of columns (data strings) but also the number of rows (data lines) can be designated. When these are to be designated, see the table on page 72. Note that the max. number of digits for the set parameter (gg) varies according to the character type. If data over the max. number of digits for the set parameter ( gg ) is set, the barcode is not printed. The number of columns (data strings) is variable from 1 to 4 .

However, the max. number of lines, which is 44 , depends on the number of columns.

Explanation for QR code
(1) Error correction level

The QR code contains functions to detect and correct an error. If one of the data characters is damaged, the information can be restored when this code is read.
There are 4 levels that can be designated. The level should be specified according to usage. The general correction ability is as follows.

| Level | Error correction ability | Overhead by correcting <br> an error |
| :---: | :---: | :---: |
| High density level | Low | $7 \%$ |
| Standard level |  | $15 \%$ |
| Reliability level |  | $25 \%$ |
| $n n$ | $\downarrow$ | $30 \%$ |
| High reliability level | High |  |



When the 1 －cell width is 0 ，a two－dimensional code is not drawn．However，the two－ dimensional code printed on the previous label is cleared．
（3）Selection of mode
All codes including alphanumerics，symbols，and Kanji can be used in one QR code． Manual mode or automatic mode can be selected to perform the operation．
（4）Selection of model
Model 1：Original specification
Model 2：Extended specification which enhances the function of position correction and can contain a large amount of data．
（5）Mask number
To be sure to read the $Q R$ code，it is preferable that white and black modules are arranged in this symbol in a balanced manner．This prevents the bit pattern＂1011101＂， which is characteristically seen in the position detecting pattern，from appearing in the symbol as much as possible．
The mask number for $Q R$ code ranges from 0 to 7 or 0 to 3 ，respectively．
The pattern is determined by placing each masking pattern for the mask number upon the module pattern．When the mask number is set to 8 ，masking is not performed． When the parameter is omitted，the most appropriate mask number is automatically selected to perform masking．
（6）Connection setting
For $Q R$ code，data can be divided into several codes．Even though there is only a narrow print space，the code can be entered in the space by dividing the code．The data can be divided into a max．of 16 codes．Parity data is obtained by XORing all input data in units of bytes before dividing．The input data is calculated based on shift JIS for Kanji，or on JIS 8 for others．Examples are shown below：
＂0123456789日本＂is divided into＂0123＂，＂4567＂，and＂89日本＂．

| Code No． 1 | No．of divided codes： 3 | Parity data： 84 | Data＂0123＂ |
| :--- | :--- | :--- | :--- |
| Code No． 2 | No．of divided codes： 3 | Parity data： 84 | Data＂4567＂ |
| Code No． 3 | No．of divided codes： 3 | Parity data： 84 | Data＂89日本＂ |

＊The parity data is the XORed value for＂0123456789日本＂． 3031323334353637383993 FA $967 B=84$
（18）Explanation for MaxiCode
（1）Connection setting

For MaxiCode, data can be divided into a max. of 8 codes.

## (19) Explanation for GS1 DataBar

(1) When the command control code is manually set to " $\mid$ " ( $0 \times 7 \mathrm{c}$ ) or a printable data code, printing of a GS1 DataBar is not guaranteed.
(2) When the increment/decrement is specified for the composite component, the data for both the linear barcode and the 2D code is incremented/decremented together across the "|" (0x7c).

Example) Increment

$$
12345|\mathrm{ABC} 997 \rightarrow 12345| \mathrm{ABC998} \rightarrow 12345\left|\mathrm{ABC} \underline{999} \rightarrow 1234 \underline{\left.\frac{1}{4} \right\rvert\, \mathrm{ABC} \underline{000}} \rightarrow 12346\right| \mathrm{ABC} 001
$$

Example) Decrement

$$
12345|\mathrm{ABC} 002 \rightarrow 12345| \mathrm{ABC} 001 \rightarrow 12345|\mathrm{ABC} \underline{000} \rightarrow 12344| \mathrm{ABCg99} \rightarrow 12344 \mid \mathrm{ABC998}
$$

(3) To disable incrementing/decrementing the data across the linear barcode and the 2D code, the mask pattern increment/decrement shall be used.

```
Example) Only the lowest 3 digits out of 10-digit data are to be incremented:
Mask pattern = M%%%%%%%%DDD,+0000000001
    12345|ABC997 }->\mathrm{ 12345|ABC998 }->12345|ABC\underline{999}->12345|ABC\underline{000
        ->12345|ABC001.....
    Mask pattern = M%%%%%%%DDN,+0000000001
        12345|ABC99X }->\mathrm{ 12345|ABCgY }->12345|ABC\underline{99Z }->12345|ABC\underline{000
        ->12345|ABC001.....
```

Example) Only the lowest 3 digits out of 10-digit data are to be decremented:
Mask pattern = M\%\%\%\%\%\%\%DDD,+0000000001
$12345|A B C 002 \rightarrow 12345| A B C \underline{001} \rightarrow 12345|A B C \underline{000} \rightarrow 12345| A B C \underline{999}$
$\rightarrow$ 12345|ABC998......
Mask pattern $=$ M\%\%\%\%\%\%\%DDN,+0000000001
$12345|\mathrm{ABCO02} \rightarrow 12345| \mathrm{ABCO01} \rightarrow 12345|\mathrm{ABCO00} \rightarrow 12345| \mathrm{ABCg9Z}$
$\rightarrow 12345 \mid A B C 99 Y \ldots$.
(4) The max. barcode width is 542 modules of GS1 DataBar Expanded.

- When 1 module width is set to 1 dot: $(25.4 \mathrm{~mm} / 203 \mathrm{dpi}) \times 542 \approx 67.8 \mathrm{~mm}$
- When 1 module width is set to 2 dots, the barcode width will be 135.6 mm . In this case, a barcode does not fit into 4 -inch print head width when it is printed at $0^{\circ}$ or $180^{\circ}$ rotation.
(5) The max. barcode height is 373 modules of GS1 DataBar Expanded Stacked (11 rows) +89 modules of the composite component (44 rows x 2 modules and 1-module separator)
- When 1 module width is set to 1 dot: $(25.4 \mathrm{~mm} / 203 \mathrm{dpi}) \times(373+88+1) \approx 57.8 \mathrm{~mm}$
- When 1 module width is set to 2 dots, the barcode height will be 115.6 mm . In this case, a barcode does not fit into 4-inch print head width when it is printed at $90^{\circ}$ or $270^{\circ}$ rotation.
(1) The check digit attach and increment/decrement, and zero suppress processes are performed according to the following priority. If any of the conditions is improper, no drawing will take place.
[For example, the zero(s) is replaced by a space(s) as a result of zero suppression but the modulus 10 designated to be attached cannot be calculated.

Increment/decrement > zero suppression > attachment of check digit
(2) Up to 32 fields for which incrementing/decrementing has been designated can be drawn. If the total of bit map font, outline font or barcode increment/decrement fields exceeds 32 , drawing will take place without incrementing/decrementing any excessive field. The field to be incremented or decremented is incremented or decremented until the Image Buffer Clear Command ([ESC] C) is transmitted.

## [Example]

(1) Format Command (Increment barcode No. 01 (+1))
(2) Format Command (Increment barcode No. 02 (+2))
(3) Image Buffer Clear Command
(4) Data Command (Barcode No. 01 "0001")
(5) Data Command (Barcode No. 02 "0100")
(6) Issue Command (2 labels)

(0002)

(0102)
(7) Issue Command (1 label)

(8) Image Buffer Clear Command
(9) Data Command (Barcode No. 02 " 3000 ")
(10) Issue Command (1 label)

(3) More than one Barcode Format Command can be connected when transmitted.
[ESC] XB01; 0100, 0150, 3, 1, 02, 02, 06, 06, 02, 0, 0150 [LF]
B02; 0350, 0150, 3, 1, 02, 02, 06, 06, 02, 0, 0150 [LF] [NUL]
(4) When the drawing data is changed per label issue during printing, the field of the drawing data for the previous label is automatically cleared using the barcode number, then the next drawing data is printed. Therefore, the barcode number which differs according to the drawing fields should be designated. Since the automatic field clear is not performed between the Clear Command ([ESC] C) and issue Command ([ESC] XS), the fixed data may be drawn using the same barcode number. In this case, the Format Command and Data Command should be sent alternately. (After the Issue Command is sent, the fields with the same barcode number are automatically cleared until the Clear Command is sent.)
(5) The link field designation is cleared by omitting the link field designation using the same barcode No. and reformatting data.
The link field designation can be also cleared by the Image Buffer Clear Command.
(6) A print data string and link field No. cannot be programmed at the same time.
(7) The same barcode number cannot be programmed more than once in one format (one page).

## Refer to Bit Map Font Format Command ([ESC] PC) <br> Outline Font Format Command ([ESC] PV) <br> Barcode Data Command ([ESC] RB)

## Examples


[ESC] C [LF] [NUL]
[ESC] XB01; 0200, 0125, 3, 1, 03, 03, 08, 08, 03, 0, 0150=12345 [LF] [NUL]
[ESC] XB02; 0830, 0550, 3, 1, 02, 04, 07, 08, 04, 3, 0150, +0000000000, 1, 00, N [LF] [NUL]
[ESC] RB02; *ABC* [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

[ESC] C [LF] [NUL]
[ESC] PC001; 0200, 0300, 1, 1, C, 00, B; 01, 02 [LF] [NUL]
[ESC] PV01; 0650, 0550, 0200, 0150, B, 33, B; 02 [LF] [NUL]
[ESC] XB01; 0200, 0550, 3, 1, 03, 03, 08, 08, 03, 0, 0150; 01, 02 [LF] [NUL]
[ESC] RB; S [LF] 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

[ESC] C [LF] [NUL]
[ESC] XB01; 0200, 0125, P, 04, 02, 03, 0, 0010 [LF] [NUL]
[ESC] XB02; 0830, 0550, Q, 08, 03, 05, 3 [LF] [NUL]
[ESC] RB01; PDF417 [LF] [NUL]
[ESC] RB02; Data Matrix [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

### 6.3.10 BIT MAP FONT DATA COMMAND [ESC] RC

## Function Provides data for the bit map font row.

## Format

(1) [ESC] RCaaa; bbb ------ bbb [LF] [NUL]
(2) Link Field Data Command
[ESC] RC; ccc ------ ccc [LF] ddd ------ ddd [LF] ------ [LF] xxx ------ xxx [LF] [NUL]
Term aaa: Character string number
000 to 199 (Two digits, 00 to 99, also acceptable.)
bbb ------ bbb: Data string to be printed
Max. 255 digits
(Max. 127 digits when the font type is $\mathrm{r}, 51,52,53,54$, or 55 .)
Any excess data will be discarded.
For the character codes, refer to the character code table to be given later in this specification.

CCC ------ ccc: Data string of link field No. 1
ddd ------ ddd: Data string of link field No. 2
to
xxx ------ xxx: Data string of link field No. 99

## Explanation (1) Link field data string

- After the link field No. is designated in the Format Command, data strings are linked using the Link Field Data Command to draw an image.
- Up to 255 digits of data strings can be linked. However, when the font type is r , $51,52,53,54$, or 55 , only up to 127 digits can be linked. When the number of digits exceeds the maximum value, excess data will be discarded.
- Up to 99 data strings can be linked.
- Up to 2048 bytes can be used as the command length ([ESC] to [NUL]) of the Link Field Data Command.
- When the data string is omitted in the Link Field Data Command, the following process is performed:
(1) No process will be performed for the field which contains no print data due to the omission
(2) When the field partially loses print data due to the omission, the only remaining data will be processed as print data.
- The Link Field Data Command can be used for the bit map font fields, outline font fields, and barcode fields.
(The same result is obtained when any of the "RC," "RV" or "RB" command code is designated.)
(2) Data string for Chinese character
- When the font type is r , Chinese character is selected. GB18030 can be printed.
（3）Chinese character code selection
－The character code is automatically selected in the manner described below．
（1）GB18030（Chinese characters）
© 20h to A0h：One－byte character Other codes：GB18030
A：Chinese character［中国］
［D6h］［D0h］［B9h］［FAh］
中
国

B：Chinese character＋One－byte character［中ABC 国abc］ ［D6h］［D0h］［41h］［42h］［43h］［B9h］［FAh］［61h］［62h］［63h］

中 A B C 国 a b

C：One－byte character［123ABC］
［31h］［32h］［33h］［41h］［42h］［43h］
$1323 \begin{array}{lllll}1 & 2 & \text { A }\end{array}$
（4）To mix Chinese characters and writable characters on the same field
－The character code is specified in the manner described below．
（1）GB18030（Chinese characters）
© 20h to A0h：One－byte character Other codes：GB18030
A：Kanji［中国＋Writable character
［D6h］［D0h］［B9h］［FAh］［FAh］［A1h］
中 国 Writable character

B：Chinese character＋One－byte character 中 ABC国 abc］＋Writable character
［D6h］［D0h］［41h］［42h］［43h］［B9h］［FAh］［61h］［62h］［63h］
中 A B C 国 a b c
［FAh］［A1h］
Writable character

C：One－byte character［123ABC］＋Writable character
［31h］［32h］［33h］［41h］［42h］［43h］［FAh］［A1h］

| 1 | 2 | 3 | $A$ | $B$ | $C$ | Writable character |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Refer to Bit Map Font Format Command（［ESC］PC）

## Examples

(1)

[ESC] C [LF] [NUL]
[ESC] PC001; 0200, 0125, 1, 1, C, 00, B [LF] [NUL]
[ESC] PC002; 0650, 0550, 2, 2, G, 33, B, +0000000001 [LF] [NUL]
[ESC] RC001; Sample [LF] [NUL]
[ESC] RC002; 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

[ESC] C [LF] [NUL]
[ESC] PC001; 0200, 0300, 1, 1, C, 00, B; 01, 02 [LF] [NUL]
[ESC] PV01; 0650, 0550, 0200, 0150, B, 33, B; 02 [LF] [NUL]
[ESC] XB01; 0200, 0550, 3, 1, 03, 03, 08, 08, 03, 0, 0150; 01, 02 [LF] [NUL]
[ESC] RC; S [LF] 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

［ESC］C［LF］［NUL］
［ESC］PC000；0200，0125，1，1，r，00，B［LF］［NUL］
［ESC］PC001；0200，0300，1，1，r，01，B［LF］［NUL］
［ESC］RC000；东艺泰克［LF］［NUL］
［ESC］RC001；东芝泰克［LF］［NUL］
［ESC］XS；I，0002，0002C3000［LF］［NUL］

### 6.3.11 OUTLINE FONT DATA COMMAND [ESC] RV

## Function

Provides data for the outline font row.

Format
(1) [ESC] RVaa; bbb ------ bbb [LF] [NUL]
(2) Link Field Data Command [ESC] RV; ccc ------ ccc [LF] ddd ------ ddd [LF] ------ [LF] xxx ------ xxx [LF] [NUL]

## Term

aa: $\quad$ Character string number 00 to 99
bbb ------ bbb: Data string to be printed Max. 255 digits
Any excess data will be discarded.
For the character codes, refer to the character code table to be given later in this specification.
ccc ------ ccc: Data string of link field No. 1
ddd ------ ddd: Data string of link field No. 2
to
xxx ------ xxx: Data string of link field No. 99
Explanation (1) Link field data string

- After the link field No. is designated in the Format Command, data strings are linked using the Link Field Data Command to draw an image.
- Up to 255 digits of data strings can be linked. Data exceeding the max. number of digits will be discarded.
- Up to 99 data strings can be linked.
- Up to 2048 bytes can be used as the command length ([ESC] to [NUL]) of the Link Field Data Command.
- When the data string is omitted in the Link Field Data Command, the following process is performed:
(1) No process will be performed for the field which contains no print data due to the omission.
(2) When the field partially loses print data due to the omission, the only remaining data will be processed as print data.
- The Link Field Data Command can be used for the bit map font fields, outline font fields, and barcode fields.
(The same result is obtained when any of the "RC," "RV" or "RB" command code is designated.)

Refer to Outline Font Format Command ([ESC] PV)

## Examples


[ESC] C [LF] [NUL]
[ESC] PV01; 0200, 0125, 0100, 0100, B, 00, B [LF] [NUL]
[ESC] PV02; 0650, 0550, 0200, 0150, B, 33, B, +0000000001 [LF] [NUL]
[ESC] RV01; Sample [LF] [NUL]
[ESC] RV02; 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

[ESC] C [LF] [NUL]
[ESC] PC001; 0200, 0300, 1, 1, C, 00, B; 01, 02 [LF] [NUL]
[ESC] PV01; 0650, 0550, 0200, 0150, B, 33, B; 02 [LF] [NUL]
[ESC] XB01; 0200, 0550, 3, 1, 02, 02, 06, 06, 02, 0, 0150; 01, 02 [LF] [NUL]
[ESC] RC; S [LF] 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

### 6.3.12 BARCODE DATA COMMAND [ESC] RB

## Function Provides data for the barcode.

Format
(1) [ESC] RBaa; bbb ------ bbb [LF] [NUL]
(2) Link Field Data Command
[ESC] RB; ccc ------ ccc [LF] ddd ------ ddd [LF] ------ [LF] xxx ------ xxx [LF] [NUL]
(3) Link Field Data Command (specifying the number of data digits)

aa: Barcode number
00 to 31
bbb ------ bbb: Data string to be printed
The maximum number of digits varies according to the type of barcode.
ccc ------ ccc: Data string of link field No. 1
ddd ------ ddd: Data string of link field No. 2
to
xxx ------ xxx: Data string of link field No. 99
${ }^{\wedge}<$ eeee ${ }^{\wedge}<$ : $\quad$ The minimum number of data digits for link field No. 1
fff---fff|ggg---ggg: Data string for link field No. 1 The separator, which follows the first minimum data length specified by parameter eeee, is searched in the data string for link field No. 1.
${ }^{\wedge}=h h h h^{\wedge}=$ : $\quad$ The number of data digits for link field No. 2
iii---iii: Data string for link field No. 2
Whether the code, coming right after the first minimum data length specified by parameter hhhh, is a separator or not is checked in the data string for link field No. 2.
to
${ }^{\wedge}<y_{y y y}{ }^{\wedge}<$ : $\quad$ The minimum number of data digits for link field No. 99
xxx---xxx: Data string for link field No. 99

NOTES: - The command length ([ESC] to [NUL]) of the Barcode Data Command is up to 2048 bytes. ([EXC], [LF] and [NUL] are included, but designation of the minimum number of data digits ( $\wedge$ eeeee ${ }^{\wedge}<,{ }^{\wedge}=h_{h h h}{ }^{\wedge}=$ ) are excluded.)

- Up to 2000 digits of data strings per link field can be specified. The number of digits differs according to the barcode type.
- The Data Command for the MaxiCode is described later.

The Data Command for the MaxiCode is described later.

## Explanation (1) Data check

If there is data in the data row, which does not meet the type of barcode, the barcode will not be drawn. If wrong code selection takes place in the data row of CODE128 (without auto code selection), the barcode will not be drawn.

If there is data different from the one designated using the format ID when Data Matrix is used, the symbol is not drawn.

When the Barcode Data Command is sent without entering any data string for the specified number (e.g. [ESC]RB00;[LF][NUL]), the data string of the same character string number (No. 00 in the case of the above example) printed on the previous label is deleted.

In the case of the barcode type of which data length is specified (e.g. Binary mode of QR code), the previously drawn barcode cannot be deleted just by setting the data length to zero. To delete the previous barcode, be sure to send the command without entering any data string.
(2) Number of data digits for link field

When the command control code is set to " $\mid$ | \}", both the separator for GS1 DataBar with composite component and the link field separator use the same code "ן" (0x7c). To properly print barcode data for GS1 DataBar including "|" (0x7c), the minimum number of data digits and the number of data digits are specified.

- The minimum number of data digits Data received before the first separator " ${ }^{\prime \prime}$ " (0x7c) or [LF] which comes after the first minimum data length specified by parameter $\wedge<$ eeee ${ }^{\wedge}$ < is considered as the data for one link field. (Any separators included in the first minimum data digits specified by parameter ${ }^{\wedge}<e e e e^{\wedge}<$ are not processed as the separator.)
- The number of data digits When the data which comes immediately after the minimum data length specified by parameter ${ }^{\wedge}=\mathrm{hhhh}^{\wedge}=$ is a separator "|" ( $0 \times 7 \mathrm{c}$ ) or [LF], the received data is considered as the data for one link field. Otherwise, a command error results. (Any separators included in the first minimum data digits specified by parameter ${ }^{\wedge}=\mathrm{hhhh}{ }^{\wedge}=$ are not processed as the separator.)
- Supplement

Link field can be specified only when the barcode type is set to b: GS1 DataBar family (with compound composite). Data link to a field is not guaranteed when the number of data digits is specified on the other conditions.

When the control code has been manually set, it must be different from "^", "<" or "=" used for specifying the number of data digits for link field. In the case the same code is used as the control code, such code will be considered as the control code. In this case, print data is not guaranteed.

Example 1) $\quad\{\mathrm{RB} ; \wedge<0014 \wedge<0123456789012|A B C D E F G| a b c d e f g h i j|123123123|\}$


The first 14 -byte data is unconditionally read, and the data before the next " ${ }^{\text {" " }}(0 \times 7 \mathrm{c})$ is considered as the data for one link field.

Data string for link field No. 1: $0123456789012 \mid A B C D E F G$
Data string for link field No. 2: abcdefghij
Data string for link field No. 3: 123123123


The first 13-byte data is unconditionally read, and the data before the next "|" $(0 \times 7 \mathrm{c})$ is considered as the data for one link field.

Data string for link field No. 1: 0123456789012
Data string for link field No. 2: ABCDEFG
Data string for link field No. 3: abcdefghij
Data string for link field No. 4: 123123123

NOTE: Though data of Example 2 is the same as that of Example 1, the data is separated differently when the minimum number of data digits differs.

## Example 3) $\{$ RB; $123123123|\wedge<0014 \wedge<0123456789012| A B C D E F G|a b c d e f g h i j|\}$

The first 14-byte data is unconditionally read, and the data before the next "|" (0x7c) or [LF] is considered as the data for one link field.

Data string for link field No. 1: 123123123
Data string for link field No. 2: $0123456789012 \mid A B C D E F G$
Data string for link field No. 3: abcdefghij

- ${ }^{\wedge}<e e e e^{\wedge}<$ specifies the minimum number of data digits only when it comes right after the first separator "|" or [LF] in a command . In other cases, it will be processed as normal print data.
- "eeee" is fixed to 4 digits. (0001 to 2000) Setting a value outside this range results in a command error.
- A value for "eeee" shall be entered between "^<" and "^<".
- A value entered for "eeee" shall not exceed the number of data digits to the lin $k$ field terminator. Otherwise, print data is not guaranteed.
- When a value does not meet the format of $\wedge<e e e e^{\wedge}$, it will be processed as normal print data.
- When a wrong value is entered for the minimum number of data digits or the data strings are entered in the wrong order, the data may not be printed.

Example 4) $\{$ RB; $\wedge=\mathbf{0 0 2 1 \wedge = 0 1 2 3 4 5 6 7 8 9 0 1 2 | A B C D E F G}|a b c d e f g h i j| 123123123 \mid\}$

The first 21-byte data is unconditionally read, and the next character is checked. When it is "l" (0x7c) or [LF], the read data is considered as the data for one link field.

Data string for link field No. 1: $0123456789012 \mid A B C D E F G$
Data string for link field No. 2: abcdefghij
Data string for link field No. 3: 123123123


The first 20 -byte data is unconditionally read, and the next character is checked. When it is not "|" (0x7c) or [LF], a command error occurs.

NOTE: Though data of Example 5 is the same as that of Example 4, a command error results when the minimum number of data digits differs.

- ${ }^{\wedge}<h h h h^{\wedge=}$ specifies the minimum number of data digits only when it comes right after the semi-colon ";" or the first separator "|" or [LF] in a command . In other cases, it will be processed as normal print data.
- "hhhh" is fixed to 4 digits. (0001 to 2000) Setting a value outside this range results in a command error.
- A value for "hhhh" shall be entered between " $=$ " and " $\wedge=$ ".
- A value entered for "hhhh" shall not exceed the number of data digits to the link field terminator. Otherwise, print data is not guaranteed.
- When a value does not meet the format of ${ }^{\wedge}=h h h h^{\wedge}=$, it will be processed as normal print data.
- When a wrong value is entered for the minimum number of data digits or the data strings are entered in the wrong order, the data may not be printed causing a command error.
(3) No. of digits of data

When data exceeding the maximum number of digits is sent, the excess data will be discarded. For the maximum number of digits for each barcode, see below.

| Data Matrix, PDF417, QR code: | 2000 digits |
| :--- | :--- |
| MicroPDF417: | 366 digits |
| MaxiCode: | 93 digits |
| POSTNET: | $5,9,11$ digits |
| ROYAL MAIL 4 STATE CUSTOMER CODE: | 12 digits |
| KIX CODE: | 18 digits |
| USPS Intelligent mail barcode | $20,25,29,31$ digits |
| Barcodes other than the above | 126 digits |

When the number of digits does not correspond to the barcode type, the barcode is not drawn.

For the MaxiCode, the maximum number of digits varies according to the mode. In mode 2 or 3 and mode 4 or 6 , the maximum number of digits is 84 and 93 , respectively.

The maximum number of digits for Data Matrix varies according to the settings for ECC type, format ID, and the cell size. In the case of Kanji, the maximum number of digits is half those of the values described below since a Kanji character occupies 2 bytes.

Max number of digits for Data Matrix

|  | Numeric | Alphanumeric | 8 bit |
| :---: | :---: | :---: | :---: |
| ECC200 | 2000 | 2000 | 1556 |

Cell Size and Effective Data Capacity


Rectangular code

|  |  | ECC200 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Symbol size |  | Numeric capacity | Alphanum capacity | $\begin{gathered} \begin{array}{c} 8 \text {-bit } \\ \text { byte } \\ \text { capaity } \end{array} \end{gathered}$ |
| Row | Col |  |  |  |
| 8 | 18 | 10 | 6 | 3 |
| 8 | 32 | 20 | 13 | 8 |
| 12 | 26 | 32 | 22 | 14 |
| 12 | 36 | 44 | 31 | 20 |
| 16 | 36 | 64 | 46 | 30 |
| 16 | 48 | 98 | 72 | 47 |

When PDF417 or MicroPDF417 is used, the number of symbol characters called code words is limited to 928 or less. Moreover, the data compression rate varies according to the contents of data. Therefore, the maximum number of digits according to modes is as follows.

When letters and numerics are mixed in data in EXC mode, for example, the maximum values become smaller than the following values, since the internal mode switching code is used.

To correct a reading error by designating the security level, the maximum value becomes smaller, since the error correction code words below are used.

When the number of the code words exceeds 928 , or when the number of lines exceeds 90, the symbols are not drawn.
For the MicroPDF417, the numbers of rows and columns can be specified.
The maximum number of digits varies according to the setting.
In the case of PDF417

- Extended Alphanumeric Compaction (EXC) mode: 1850 digits
- Binary/ASCII Plus mode: 1108 digits
- Numeric compaction mode: 2000 digits

In the case of MicroPDF417

- Binary mode:

150 digits

- Upper case letter/space mode: 250 digits
- Numeric compaction mode: 366 digits

No. of Error Correction Code Words of PDF417 [For the MicroPDF417, the printer sets the security level automatically.

| Security level | Error Correction Ability | No. of error correction code words |
| :---: | :---: | :---: |
| Level 0 |  | 0 |
| Level 1 | Low | 2 |
| Level 2 | $\uparrow$ | 6 |
| Level 3 |  | 14 |
| Level 4 |  | 30 |
| Level 5 |  | 62 |
| Level 6 | $\downarrow$ | 126 |
| Level 7 | High | 254 |
| Level 8 |  | 510 |

The maximum number of columns and rows for the MicroPDF417

| $\begin{array}{\|c\|} \hline \text { Parameter } \\ (\mathrm{gg}) \end{array}$ | No. of columns | No. of rows | Max. number of digits for binary mode | Max. number of digits for upper case letter/space mode | Max. number of digits for numeric mode |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 00 | - | - | 150 | 250 | 366 |
| 01 | 1 | - | 22 | 38 | 55 |
| 02 | 2 | - | 43 | 72 | 105 |
| 03 | 3 | - | 97 | 162 | 237 |
| 04 | 4 | - | 150 | 250 | 366 |
| 05 | 1 | 11 | 3 | 6 | 8 |
| 06 |  | 14 | 7 | 12 | 17 |
| 07 |  | 17 | 10 | 18 | 26 |
| 08 |  | 20 | 13 | 22 | 32 |
| 09 |  | 24 | 18 | 30 | 44 |
| 10 |  | 28 | 22 | 38 | 55 |
| 11 | 2 | 8 | 8 | 14 | 20 |
| 12 |  | 11 | 14 | 24 | 35 |
| 13 |  | 14 | 21 | 36 | 52 |
| 14 |  | 17 | 27 | 46 | 67 |
| 15 |  | 20 | 33 | 56 | 82 |
| 16 |  | 23 | 38 | 64 | 93 |
| 17 |  | 26 | 43 | 72 | 105 |
| 18 | 3 | 6 | 6 | 10 | 14 |
| 19 |  | 8 | 10 | 18 | 26 |
| 20 |  | 10 | 15 | 26 | 38 |
| 21 |  | 12 | 20 | 34 | 49 |
| 22 |  | 15 | 27 | 46 | 67 |
| 23 |  | 20 | 39 | 66 | 96 |
| 24 |  | 26 | 54 | 90 | 132 |
| 25 |  | 32 | 68 | 114 | 167 |
| 26 |  | 38 | 82 | 138 | 202 |
| 27 |  | 44 | 97 | 162 | 237 |
| 28 | 4 | 4 | 8 | 14 | 20 |
| 29 |  | 6 | 13 | 22 | 32 |
| 30 |  | 8 | 20 | 34 | 49 |
| 31 |  | 10 | 27 | 46 | 67 |
| 32 |  | 12 | 34 | 58 | 85 |
| 33 |  | 15 | 45 | 76 | 111 |
| 34 |  | 20 | 63 | 106 | 155 |
| 35 |  | 26 | 85 | 142 | 208 |
| 36 |  | 32 | 106 | 178 | 261 |
| 37 |  | 38 | 128 | 214 | 313 |
| 38 |  | 44 | 150 | 250 | 366 |

About USPS Intelligent mail barcode,
When the $2^{\text {nd }}$ digit of "Barcode Identifier" is not from 0 to 4 , the printer judges as a error and doesn't do drawing process.

| Type | Field | Digits | Range |
| :---: | :---: | :---: | :---: |
| Tracking Code | Barcode Identifier | 2 (2nd digit must be 0-4) | $\begin{aligned} & 00-04,10-14,20-24,30-34,40-44,50-54, \\ & 60-64,70-74,80-84, \text { and } 90-94 \end{aligned}$ |
|  | Service Type Identifier | 3 | 000-999 |
|  | Mailer Identifier | 6 or 9 | 000000-899999 or 900000000-999999999 |
|  | Serial Number | $\begin{array}{lcr} \hline 9 & \text { (when } & \text { used } \\ \text { with } & 6 & \text { digit } \\ \text { Mailer ID) } \end{array}$ | 000000000-999999999 |
|  |  | $\begin{array}{lcr} \hline 6 & \text { (when } & \text { used } \\ \text { with } & 9 & \text { digit } \\ \text { Mailer ID) } \end{array}$ | 000000-999999 |
| Routing Code | Delivery Point ZIP Code | $0,5,9$ or 11 | 00000-99999, 000000000-999999999, and 00000000000-99999999999 |
| Total |  | 31 maximum |  |

(4) CODE128 code selection

If the case of CODE128 (with auto code selection), code selection is performed in the following manner. (Conforming to USS-128 APPENDIX-G)
(1) Determining the start character
(a) If the data begins with four or more consecutive numerals, the start code to be used is (CODE C).
(b) In any case other than (a) in (1), if a control character appears before a small letter (see (4.) or four or more consecutive numerals, the start code is (CODE A).
(c) In none of the above cases, the start code is (CODE B).
(2) If the data begins with an odd number of digits in (a), (1):
(a) Insert the (CODE A) or (CODE B) character just before the last numeric data. When (FNC1), if found in the number, breaks a pair of digits in the number, insert the (CODE A) or (CODE B) character before the numeric data preceding the (FNC1). Selection of (CODE A) or (CODE B) should conform to (b) and (c) in (1).
(3) If four or more digits of numeric data continue in (CODE A) or (CODE B).
(a) When the numeric data is an even number of digits, insert the (CODE C) character just before the first numeric data.
(b) When the numeric data is an odd number of digits, insert the (CODE C) character immediately after the first numeric data.
(4) If a control character appears in (CODE B):
(a) In the subsequent data, when a small letter appears before the next control character or four or more consecutive digits, insert the (SHIFT) character before the first control character.
(b) When not so, insert the (CODE B) character just before the first control character.
(5) If a small letter appears in (CODE A):
(a) In the subsequent data, when a control character appears before the next small letter or four or more consecutive digits, insert the (SHIFT) character before the first small letter.
(b) When not so, insert the (CODE B) character just before the first small letter.
(6) If any data other than the numerals appears in (CODE C):
(a) Insert the (CODE A) or (CODE B) character just before the data other than the numerals. Selection of (CODE A) or (CODE B) should conform to (b) and (c) in (1).
(5) CODE128 code selection check

Check if selection of (CODE A), (CODE B), or (CODE C) of CODE128 has been set correctly. If an error is found, the barcode will not be drawn.
[Conditions causing an error]
(1) No start code is designated.
(2) A small letter (including $\{, \mid\},, \sim, \quad$ ) is found in (CODE A).
(3) A control character is found in (CODE B).
(4) Any data other than the numerals, (FNC1), (CODE A), and (CODE B) is found in (CODE C).
(5) There are two or more consecutive (SHIFT) characters.
© The number in (CODE C) is an odd number of digits.
(8) (SHIFT) is followed by (CODE A), (CODE B) or (CODE C).
(6) Kanji code selection

- In the case of Data Matrix and PDF417, Kanji codes can be printed. Shift JIS, JIS hexadecimal, JIS 8 codes can be mixed.
(7) Link field data string
- After the link field No. is designated in the Format Command, data strings are linked using the Link Field Data Command to draw an image.
- Up to 2000 digits of data strings of Data Matrix and PDF417 can be linked. For other barcodes, up to 126 digits can be linked. (The value varies according to the type of barcode.)
When the number of digits exceeds the maximum value, excess data will be discarded.
- Up to 99 data strings can be linked.
- Up to 2048 bytes can be used as the command length ([ESC] to [NUL]) of the Link Field Data Command.
- When the data string is omitted in the Link Field Data Command, the following process is performed:
(1) No process will be performed for the field which contains no print data due to the omission.
(2) When the field partially loses print data due to the omission, the only remaining data will be processed as print data.
- The Link Field Data Command can be used for the bit map font fields, outline font fields, and barcode fields.
(The same result is obtained when any of the "RC," "RV", or "RB" command code is designated.)
(8) When manual mode is selected in the Format Command for a QR code
(1) Numeric mode, alphanumeric and symbol mode, Kanji mode

| Mode selection | Data to be printed |
| :---: | :--- |

(2) Binary mode

| Mode selection | No. of data strings <br> (4 digits) | Data to be printed |
| :---: | :---: | :---: |

(3) Mixed mode

| Data | "," (comma) | Data | "," (comma) | Data |
| :---: | :---: | :---: | :---: | :---: |

The QR code can handle all codes including alphanumerics, symbols and Kanji. Since data compression rate varies according to codes, the code to be used is designated when the mode is selected.

| Mode | Code | Details |
| :---: | :--- | :--- |
| N | Numerals | 0 to 9 |
| A | Alphanumerics, symbols | A to Z 0 to 9 space <br> $\$ \%{ }^{*}+-. /:$ |
| B | Binary (8-bit) | 00 H to FFH |
| K | Kanji | Shift JIS, JIS hexadecimal |

If mixed mode is selected, up to 200 modes can be selected in a QR code.
(9) When the automatic mode is selected in the Format Command for a QR code.

| Data to be printed |
| :--- |

(10) How to transmit the control code data

| NUL (00H) | = | > @ | (3EH, 40H) |
| :---: | :---: | :---: | :---: |
| SOH (01H) | = | > A | (3EH, 41H) |
| STX (02H) | = | > B | (3EH, 42H) |
| GS (1DH) | = | >] | (3EH, 5DH) |
| RS (1EH) | = | > 1 | (3EH, 5EH) |
| US (1FH) | = | $>$ | (3EH, 5FH) |

* How to transmit the special codes
$>(3 E H) \quad=\quad>0(3 E H, 30 H)$
（11）Transfer code for QR code

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | NUL | DLE | SP | 0 | ＠ | P | $\cdot$ | p |  |  |  |  |  |  |  |  |
| 1 | SOH | DC1 | ！ | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 | STX | DC2 | $"$ | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 | ETX | DC3 | $\#$ | 3 | C | S | c | s |  |  |  |  |  |  |  |  |
| 4 | EOT | DC4 | \＄ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 | ENQ | NAK | $\%$ | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 | ACK | SYN | $\&$ | 6 | F | V | f | v |  |  |  |  |  |  |  |  |
| 7 | BEL | ETB | , | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 | BS | CAN | $($ | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 | HT | EM | $)$ | 9 | l | Y | i | y |  |  |  |  |  |  |  |  |
| A | LF | SUB | $*$ | $:$ | J | Z | j | z |  |  |  |  |  |  |  |  |
| B | VT | ESC | + | $;$ | K | $[$ | k | $\{$ |  |  |  |  |  |  |  |  |
| C | FF | FS | , | $<$ | L | l | I | l |  |  |  |  |  |  |  |  |
| D | CR | GS | - | $=$ | M | ］ | m | $\}$ |  |  |  |  |  |  |  |  |
| E | SO | RS | $\cdot$ | $>$ | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F | SI | US | $/$ | $?$ | O |  | o | DEL |  |  |  |  |  |  |  |  |

＊The shaded parts are Japanese． They are omitted here．
（12）Examples of data designation
（1）Alphanumeric mode： ABC 123
A A B C 123
 Designation of mode
（2）Binary mode： $01 \mathrm{H}, 03 \mathrm{H}, 05 \mathrm{H}$

（3）Mixed mode
Numeric mode
Kanji mode
Binary mode
123456

Alphanumeric mode：ABC
N 123456 ，K Kanji data，B 0010 aア iイuウe工o才，A ABC

（4）Automatic mode
When the data above（3）is designated in automatic mode：
123456 Kanji data aアiイuウeエoオABC
Data to be printed
(13) MaxiCode data

For mode 0 or 1 :
[ESC] RBaa; bbbbbbbbbcccdddeeeee --- eeeee [LF] [NUL]
For mode 2 or 3:
[ESC] RBaa; bbbbbbbbbcccdddeeeee --- eeeee [LF] [NUL]
For mode 4 or 6:
[ESC] RBaa; fffffffffggggg --- ggggg [LF] [NUL]
(1) bbbbbbbbb: Postal code Fixed as 9 digits

- Mode 0 or 2:
b1b2b3b4b5: Zip code Fixed as 5 digits (Numerics)
b6b7b8b9: Zip code extension Fixed as 4 digits (Numerics)
- Mode 1 or 3:
b1b2b3b4b5b6: Zip code Fixed as 6 digits (Character "A" of code set)
b7b8b9: Vacant Fixed as 3 digits (20H)
(2) Ccc: Class of service Fixed as 3 digits (Numerics)
(3) ddd: Country code Fixed as 3 digits (Numerics)
(4) eee --- eee: Message data strings 84 digits
(5) fffffffff: Primary message data strings 9 digits
(6) ggg --- ggg: Secondary message data strings 84 digits

NOTES: 1. When anything other than numerics is included in the data string of zip code (mode 2), zip code extension, class of service or country code, a MaxiCode is not drawn.
2. If the message data is less than 84 digits when mode 2 or 3 is selected, the printer adds a CR (000000) at the end of the data, and the remaining digits will be padded with FSs (011100). When message data exceeding 84 digits is received, the excess data will be discarded before drawing a MaxiCode.
3. If the message data is less than 93 digits ( 9 digits +84 digits) when mode 4 or 6 is selected, the printer adds a CR (000000) at the end of the data, and the remaining digits will be padded with FSs (011100). When message data exceeding 93 digits is received, the excess data will be discarded before drawing a MaxiCode.
4. Mode 6 should not be used for usual operation since it is used for scanner programming

## Examples

(1)

[ESC] C [LF] [NUL]
[ESC] XB01; 0200, 0125, 3, 1, 02, 02, 06, 06, 02, 0, 0150 [LF] [NUL]
[ESC] XB02; 0830, 0550, 3, 1, 02, 04, 07, 08, 04, 3, 0150, +0000000000, 1, 00, N [LF] [NUL]
[ESC] RB01; 12345 [LF] [NUL]
[ESC] RB02; *ABC* [LF] [NUL]
[ESC] XS; I, 0002, 0002 C 3000 [LF] [NUL]

[ESC] C [LF] [NUL]
[ESC] PC001; 0200, 0300, 1, 1, C, 00, B; 01, 02 [LF] [NUL]
[ESC] PV01; 0650, 0550, 0200, 0150, B, 33, B; 02 [LF] [NUL]
[ESC] XB01; 0200, 0550, 3, 1, 02, 02, 06, 06, 02, 0, 0150; 01, 02 [LF] [NUL]
[ESC] RB; S [LF] 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

[ESC] C [LF] [NUL]
[ESC] XB01; 0200, 0125, P, 04, 02, 03, 0, 0010 [LF] [NUL]
[ESC] XB02; 0830, 0550, Q, 08, 04, 05, 3 [LF] [NUL]
[ESC] RB01; PDF417 [LF] [NUL]
[ESC] RB02; Data Matrix [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

### 6.3.13 ISSUE COMMAND [ESC] XS

Function Issues labels according to the print conditions programmed.
Format
[ESC] XS; I, aaaa, bbbcdefgh [LF] [NUL]

Term
aaaa: Number of labels to be issued
0001 to 9999
bbb: Cut interval. Designates the number of pieces to be printed before the backing paper is cut. 000 to 100 (no cut when 000)

C: $\quad$ Type of sensor
0: No sensor
1: Reflective sensor
2: Transmissive sensor (when using normal labels)
3: Transmissive sensor (when using normal labels)
4: Reflective sensor
d: Issue mode
C: Batch mode
D: Strip mode (with back feed, the strip sensor is valid. 2ips and 3ips are valid for strip mode)
E: Strip mode (with back feed, the strip sensor is valid. 2ips and 3ips are valid for strip mode)
F: Partial cut mode (Non back feed cut mode)
G: Linerless cut mode (with back feed, the taken up sensor is valid.)
e: Issue speed
1: 2 inches/sec
2: 2 inches/sec
3: 3 inches/sec
4: 4 inches/sec
5: 5 inches/sec (300dpi 4inches/sec)
6: 6 inches/sec (300dpi 4inches/sec)
7: 6 inches/sec (300dpi 4inches/sec)
8: 6 inches/sec (300dpi 4inches/sec)
9: 6 inches/sec (300dpi 4inches/sec)
A: 6 inches/sec (300dpi 4inches/sec)
B: 6 inches/sec (300dpi 4inches/sec)
f: With/without ribbon
Direct thermal models (B-FV4D series):
Set to 0 .
Thermal transfer models (B-FV4T series):
0: Without ribbon
1: With ribbon
2: With ribbon
g: Designates tag rotation.
0 : Printing bottom first
1: Printing top first
2: Mirror printing bottom first
3: Mirror printing top first
h: Type of status response
0 : No status response
1: Status response

## Explanation (1) Number of labels to be issued

(1) If increment/decrement is not specified, the designated number of pieces with the same drawing data will be issued.
(2) If increment/decrement is specified, the designated number of pieces will be issued while incrementing/decrementing the piece of the designated drawing area.

* The increment/decrement designation is valid until the Image Buffer Clear Command ([ESC] C) is transmitted.
(2) Cut interval

The cut interval is valid only when the cutter has been installed and the issue mode is "C" of " F ". If an error occurs during an issue after the cut interval is designated, and then printing is restarted, the printer ejects the printed paper then resumes printing on the paper where the error occurred.
If no subsequent command is received from the PC for 1 seconds after cut-issuing the last label, when the cut interval is valid and "with automatic forward feed standby" set, the printer automatically performs forward feed to tear off position.
When the Issue Command is received during the automatic forward feed standby, an issue is started after a reverse feed to the original position.
If any command is sent and processed after the Issue Command is sent, the automatic forward feed is not performed. Therefore, a command should not be sent after the Issue Command is sent. If the power should not be turned off then on, or the printer should not be placed in a pause/reset state before the automatic forward feed, since the automatic forward feed is not performed when the paper is fed by turning the power off then on, or by pressing the [FEED] key of the printer in the pause/reset state.
If the paper is fed by pressing the [FEED] key of the printer during the forward feed standby, the printer feeds one label, cuts, performs the automatic forward feed then stops.
(3) Type of sensor
(1) No sensor: Printing takes place according to the parameter designated by the Label Size Set Command.
Note: When the "F: Partial cut mode" is designated for the issue mode, "No sensor" should be selected. (The partial cutter is supposed to be used for cutting continuous media, like receipt rolls.)
(2) Reflective sensor:

Printing takes place according to the parameter designated by the Label Size Set Command. However, the black mark provided on the back side of the tag paper is automatically sensed by the reflective sensor and the paper position is finely adjusted for every piece.
(3) Transmissive sensor (when using normal labels):

Printing takes place according to the parameter designated by the Label Size Set Command. However, the label-to-label gap is automatically sensed by the transmissive sensor and the paper position is finely adjusted for every piece.
(4) Issue mode
[C: Batch mode (cut interval 0)]

(1) Idling
(during automatic forward feed standby)
(2) Prints 1st label (A)
(3) Prints 2nd label (B)
(4) Prints 3rd label (C)
[C: Batch mode (Cut interval: 1, Issue count: 2)]
"Without automatic forward feed standby"

(1) Idlina
(2) End of printing 1st label (A)
(3) Feeds to the cut position
(4) The 1st label (A) reaches the cut position and is colt
(5) Feeds back to the head position and start to nrint the nd $^{\text {nd }}$ lahal (R)
(6) End of printing 2nd label (B)
(7) Feeds to the cut position
(8) The 2nd label (B) reaches the cut position and is c.ut
(9) Feeds back to the home position
[C: Batch mode (Cut interval: 1, Issue count: 2)]
"With automatic forward feed standby"

(1) Idlina
(2) End of printing 1 st label (A)
(3) Feeds to the cut position
(4) The 1st label (A) reaches the cut position and is cut.
(5) Feeds back to the head position and start to print the $2^{\text {nd }}$ label (B).
(6) End of printina 2nd label (B)
(7) Feeds to the cut position
(8) The 2nd label (B) reaches the cut position and is cut.
(9) Feeds back to the home position
(10) Automatic forward feed to tear off position after 1 seconds
[D: Strip mode (Issue count: 3)]


(1) Idling
(2) End of printing 1 st label (A)
(3) Feeds to the cut position
(4) The 1st label (A) is partially cut.
(5) End of printing 2nd label (B)
(6) Feeds to the cut position
(7) The 2nd label (B) is partially cut The 1st and 2 nd labels are removed together.
(8) Idling
[G: Linerless cut mode (Issue count: 2)]

(2) End of printing 1st label (A)
(3) Feeds to the cut position and cuts1 ${ }^{\text {st }}$ label (A).
(4) Removes 1st label (A)
(5) Feeds back to the home position
(6) End of printing 2nd label (B)
(3) Feeds to the cut position and cuts2 ${ }^{\text {nd }}$ abel (B)

* The next label is not printed until the printed label is removed.
(5) Issue speed
- Printing takes place at the designated speed.
- The possible issue speed varies according to types and sizes of the paper supply. For details, refer to the Supply Specification.

Issue speed

| Model | 203 dpi model |  |  | 300 dpi model |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | C: Batch | D: Strip | E: Strip | C: Batch | D: Strip | E: <br> Strip |
| 1 | 2" | 2"/sec | 2" ${ }^{\text {cec }}$ | 2" | 2" ${ }^{\text {cec }}$ | 2"/sec |
| 2 | $2 / \mathrm{sec}$ | $2 / \mathrm{sec}$ | $2 / \mathrm{sec}$ | 2 /sec | 2/sec | $2 / \mathrm{sec}$ |
| 3 | 3"/sec | 3"/sec | 3"/sec | 3"/sec | 3"/sec | 3"/sec |
| 4 | 4"/sec | 3"/sec | 3"/sec | 4"/sec | 3"/sec | 3"/sec |
| 5 | 5"/sec | 3 "/sec | 3"/sec | 4"/sec | $3 \mathrm{l} / \mathrm{sec}$ | 3"/sec |
| 6 | 6"/sec | 3"/sec | 3"/sec |  |  |  |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |
| A |  |  |  |  |  |  |
| B |  |  |  |  |  |  |

Printing is performed according to the issue speed parameter settings:
(6) Tag rotation

The origin of coordinates and printing direction vary according to the designation of tag rotation.
(1) Printing bottom first

(2) Printing top first

(3) Mirror printing bottom first

(4) Mirror printing top first


## (7) Status response

When the option with status response has been selected, a status response is made at the end of printing or if an error occurs.
In batch mode and cut mode, the print end status response is made after printing on the designated number of labels.
In strip mode, the status response is made after printing one label.

* Do not change the parameter for status response/no status response during printing. Otherwise the status response may not be performed properly.


## Examples


[ESC] D0762, 0820, 0732 [LF] [NUL]
[ESC] T11C30 [LF] [NUL]
[ESC] C [LF] [NUL]
[ESC] PC001; 0150, 0410, 1, 1, A, 00, B [LF] [NUL]
[ESC] RC001; Sample [LF] [NUL]
[ESC] XS; I, 0004, 0011C5201 [LF] [NUL]
(1) Explanation of processes involved to stop the label at the home position after the head-open state is detected:

When the gap between labels (black mark) is found after the head open state is detected, the value to stop at the home position of each label between the head and the sensor is set again.


- The paper is moved in the above state.

- Stop position after feeding one label

(2) Any cut or strip issue commands should not be sent to the printer on which the cutter or strip module is not installed.


### 6.3.14 FEED COMMAND [ESC] T

## Function Feeds the paper

## Format <br> [ESC] Tabcde [LF] [NUL] <br> Term <br> a: Type of sensor <br> 0: No sensor

1: Reflective sensor
2: Transmissive sensor (when using normal labels)
3: Transmissive sensor (when using normal labels)
4: Reflective sensor
b: Selects cut or non-cut
0: Non-cut
1: Cut
c: Feed mode
C: Batch mode (Cut and feed when "Cut" is selected for parameter b.)
D: Strip mode (with back feed, 2ips and 3ips are valid for strip mode)
E: Strip mode (with back feed, 2ips and 3ips are valid for strip mode)
F: Partial cut mode (Non back feed cut mode)
G: Linerless cut mode (with back feed)
d: Feedspeed
1: 2 inches/sec (2 inches/sec for the 300 dpi model)
2: 2 inches/sec (2 inches/sec for the 300 dpi model)
3: 3 inches/sec ( 3 inches/sec for the 300 dpi model)
4: 4 inches/sec (4 inches/sec for the 300 dpi model)
5: 5 inches/sec (4 inches/sec for the 300 dpi model)
6: 6 inches/sec (4 inches/sec for the 300 dpi model)
7: 6 inches/sec (4 inches/sec for the 300 dpi model)
8: 6 inches/sec (4 inches/sec for the 300 dpi model)
9: 6 inches/sec (4 inches/sec for the 300 dpi model)
A: 6 inches/sec ( 4 inches/sec for the 300 dpi model)
B: 6 inches/sec. (4 inches/sec for the 300 dpi model)
e: With/without ribbon
Direct thermal models (B-FV4D series):
Set to 0.
Thermal transfer models (B-FV4T series):
0: Without ribbon
1: With ribbon
2: With ribbon
Explanation (1) Type of sensor
(1) No sensor:

Media feed takes place according to the parameter designated by the Label Size Set Command.
Note: When the "F: Partial cut mode" is designated for the feed mode, "No sensor" should be selected. (The partial cutter is supposed to be used for cutting continuous media, like receipt rolls.)
(2) Reflective sensor:

Media feed takes place according to the parameter designated by the Label Size Set Command. However, the black mark provided on the back side of the tag paper is automatically sensed by the reflective sensor and the stop position is fine adjusted.
(3) Transmissive sensor (when using normal labels):

Media feed takes place according to the parameter designated by the Label Size Set Command. However, the label-to-label gap is automatically sensed by the transmissive sensor and the stop position is finely adjusted.
(2) Cut/non-cut

This option is valid in batch feed mode only. (Non-cut is selected in strip mode.) When "with automatic forward feed standby" is set by the parameter setting and if no subsequent command from the PC is received within 1 second after cut-feeding, the printer automatically performs forward feed to tear off position..
When the Feed Command is received in the forward feed standby state, the printer performs a reverse feed to the original position.

* For notes, refer to the section regarding the Issue Command.
(3) Feed mode
[C: Batch (Non-cut)]
Head position

(1) Place paper.
(2) End of feed
(Completes feeding to the top of form and stops)
[C: Batch (Cut)]
"Without automatic forward feed standby"

(1) Place paper.
(2) End of feed (Completes feeding to the top of form)
(3) Feeds to the cut position.
(4) Cuts unnecessary paper.
(5) Feeds back to the home position.
[C: Batch (Cut)]
"With automatic forward feed standby"

(2) End of feed (Completes feeding to the top of form)
(3) Feeds to the cut position.
(4) Cuts unnecessary paper.
(5) Feeds back to the home position.
(6) Automatic forward feed to tear off position after 1 seconds
[D: Strip]

(1) Place paper.
(2) Feeds back to the home position.
(3) Feeding starts
(4) End of feed
(Completes feeding to the top of form and stops)
* If a label is not removed, a feed is performed.
[ F : Partial cut mode]

(1) Place paper.
(2) End of feed (Completes feeding to the top of form)
(3) Feeds to the cut position.
(4) Cuts and unnecessary paper is cut off manually.
(5) Idling.
[G: Linerless cut mode]

(4) Feed speed
- A feed is performed at the designated speed.

However, the back feed speed in the cut mode or the strip mode is 3 "/sec.

- The possible issue speed varies according to types and sizes of the paper supply.
For details, refer to the Supply Specification.

| Model | 203 dpi model |  |  | 300 dpi model |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underbrace{\text { Issue mode }}_{\text {Parameter }}$ | C: Batch | D: Strip | E: Strip | C: Batch | D: Strip | E: <br> Strip |
| 1 |  |  |  |  |  |  |
| 2 | $2 / \mathrm{sec}$ | $2 / \mathrm{sec}$ | 2/sec | $2 / \mathrm{sec}$ | $2 / \mathrm{sec}$ | $2 / \mathrm{sec}$ |
| 3 | 3"/sec | $3 \mathrm{l} / \mathrm{sec}$ | 3"/sec | 3"/sec | 3"/sec | 3"/sec |
| 4 | $4 " / \mathrm{sec}$ | $3 \mathrm{l} / \mathrm{sec}$ | 3"/sec | $4 " / \mathrm{sec}$ | $3 " / \mathrm{sec}$ | $3 \mathrm{l} / \mathrm{sec}$ |
| 5 | 5"/sec | $3 \mathrm{\prime} \mathrm{\prime} / \mathrm{sec}$ | 3"/sec | 4"/sec | 3"/sec | 3"/sec |
| 6 | $6 " / \mathrm{sec}$ | $31 / \mathrm{sec}$ | 3"/sec |  |  |  |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |
| A |  |  |  |  |  |  |
| B |  |  |  |  |  |  |

(1) If a change of label size or type of sensor, feed fine adjustment, cut position fine adjustment (or strip position fine adjustment) or back feed fine adjustment is made, one label must be fed to adjust the first print position prior to printing.
(2) The parameter of the Feed Command is protected in memory (even if the power is turned off).
(3) When "status response made" is selected in the Issue Command parameter setting, a status response is made after the end of feed or when an error occurs.
(4) For explanation about the process to stop the label at the home position, refer to the section regarding the Issue Command.
(5) When "with automatic forward feed standby" is selected by the parameter setting and if no subsequent command is received from the PC after the last label has
been fed, the printer automatically performs forward feed to tear off position. When the Feed Command is received during the forward feed standby, the printer feeds the label in reverse to the original position.

* For notes, refer to the section regarding the Issue Command.


## Examples


[ESC] D0762, 0820, 0732 [LF] [NUL]
[ESC] AX; +010, +000, +10 [LF] [NUL]
[ESC] T11C30 [LF] [NUL]
[ESC] C [LF] [NUL]
[ESC] PC001; 0150, 0410, 1, 1, A, 00, B [LF] [NUL]
[ESC] RC001; Sample [LF] [NUL]
[ESC] XS; I, 0004, 0011C3001 [LF] [NUL]

### 6.3.15 EJECT COMMAND [ESC] IB

Function Ejects (cuts) the label presently remaining between the head and the cutter and returns to the original position.

## Format <br> [ESC] IB [LF] [NUL]

Notes
When "with automatic forward feed standby" is selected by the parameter setting and if no subsequent command from the PC is received within 1 second after ejection, the printer automatically performs forward feed to tear off position.
When the Eject Command is received in the forward feed standby state, the printer feeds the label in reverse to the original position and ejects it.

* For notes, refer to the section regarding the Issue Command.


## Examples


(1) Idlina
(2) End of printing 1st label (A)
(3) End of printina 2nd label (B)
(4) End of printina 3rd label (C)
(5) Feeds to the cut position by the Fiant Cnmmand
(6) End of cuttina
(7) Since non-stop cut is performed, naner is fed nver the cult nosition
(8) Feeds back to home position.
[ESC] C [LF] [NUL]
[ESC] PC001; 0200, 0125, 1, 1, A, 00, B [LF] [NUL]
[ESC] RC001; A [LF] [NUL]
[ESC] XS; I, 0001, 0001C3001 [LF] [NUL]
[ESC] RC001; B [LF] [NUL]
[ESC] XS; I, 0001, 0001 C 3001 [LF] [NUL]
[ESC] RC001; C [LF] [NUL]
[ESC] XS; I, 0001, 0001C3001 [LF] [NUL]
[ESC] IB [LF] [NUL]

### 6.3.16 FORWARD/REVERSE FEED COMMAND [ESC] U1, [ESC] U2

Function After printing or feeding the paper, feeds the paper to a manually cut position.
When issuing the next label, feeds the paper back to the first printing position.
Format Forward Feed
[ESC] U1; aaaa [LF] [NUL]

## Reverse Feed

[ESC] U2; aaaa [LF] [NUL]

Term aaaa: Feed value by which the paper is fed forward or backward. 0030 to 2000 (in 0.1 mm units)
(1) When the [FEED] key is pressed on the printer, one label is fed, and then fed by the forward feed value automatically if the Forward Feed Command has already been transmitted.
(2) The Forward/Reverse Feed Command is protected in memory (even if the power is turned off).
(3) The Forward/Reverse Feed Command is ignored when the following conditions are satisfied.
(1) When the strip module has been installed and the previous issue was executed by:

- Issue command with the issue mode set to "D: Strip mode" or "E: Strip mode"
- Feed command with the feed mode set to "D: Strip mode" or "E: Strip mode"
(2) When the cutter module has been installed and the previous issue was executed by:
- Issue command with the issue mode set to "C: Batch mode" and the cut interval set to 001 or more
- Issue command with the issue mode set to "F: Partial cut mode"
- Feed command with the feed mode set to "F: Partial cut mode"
- Eject command
(3) When "Forward feed standby" is set to ON.
(4) The forward feed is performed at the speed designated in the Issue Command or Feed Command.


## Examples


(1) Idlina
(2) Feeds one label
(3) Feeds to the position at which a label can be cut manually.
(4) Cut manually.
(5) Standbv
(6) Feeds back to the home position
(7) Prints three A labels
(8) Feeds to the position at which labels can be cut manuallv.
(9) Cut manually.
(10) Standbv
(11) Feeds back to home position
(12) Prints one $B$ label
(13) Feeds to the position at which a label can be c.ut manuallv
(14) Cut manually.
(15) Standbv
[ESC] T20C30 [LF] [NUL]
[ESC] U1; 0120 [LF] [NUL]
Cut manually.
[ESC] U2; 0120 [LF] [NUL]
[ESC] RC001; A [LF] [NUL]
[ESC] XS; I, 0003, 0002C3001 [LF] [NUL]
[ESC] U1; 0120 [LF] [NUL]
Cut manually.
[ESC] U2; 0120 [LF] [NUL]
[ESC] RC001; B [LF] [NUL]
[ESC] XS; I, 0001, 0002 C 3001 [LF] [NUL]
[ESC] U1; 0120 [LF] [NUL]

### 6.3.17 STORAGE AREA ALLOCATE COMMAND [ESC] XF

Function Clear the storage area in flash ROM on the CPU board or in USB memory.
Format [ESC] XF; aa, bb [, cc] [, Ed] [LF] [NUL]

Term
aa: ignore
bb: ignore
cc: ignore
Ed: Indicates where the upper files are stored. (Omissible)
d:
0: Flash ROM on the CPU board 1: USB Memory

Explanation If this command is received, the storage area in flash ROM on the CPU or in USB memory is cleared.

Refer to - Bit Map Writable Character Command ([ESC] XD)

- Save Start Command ([ESC] XO)
- Flash Memory Format Command ([ESC] J1)

Example The storage area in flash ROM on the CPU is cleared.
[ESC] XF; 01, 01, 01, E0 [LF] [NUL]

### 6.3.18 FLASH MEMORY FORMAT COMMAND [ESC] J1

Function Formats (initializes) the flash ROM on the CPU board or USB memory for storage.
Format [ESC] J1; a (, b) [LF] [NUL]
Term a: Formatting (initializing) range
A: Entire area of the flash memory or USB Memory (PC save area + writable character area)
B: PC save area of the flash memory or USB Memory
C: Writable character storage area of the flash memory or USB Memory
D: True Type area
b: Drive (Omissible. When omitted, the flash ROM on the CPU board is selected.)
0: Flash ROM on the CPU board
1: USB Memory
2: USB Memory

Explanation If this command is received, the specified storage area in flash ROM on the CPU or in USB memory is cleared.

Refer to - Bit Map Writable Character Command ([ESC] XD)

- Save Start Command ([ESC] XO)
- Save Terminate Command ([ESC] XP)

Example
[ESC] J1; A, 0 [LF] [NUL]

### 6.3.19 USB MEMORY FORMAT COMMAND [ESC] JA

Function Formats (initializes) the flash ROM on the CPU board or USB memory for storage.
Format [ESC] JA; a (, b) [LF] [NUL]

Term

## Explanation

a: Formatting (initializing) range for the flash ROM on the CPU board or USB memory A: All area
B: PC save area
C: Bitmap writable character storage area
D: True Type area
b: Drive (Omissible, If omitted, flash ROM on the CPU board is selected.)
0: Flash ROM on the CPU board
1: USB memory
2: USB memory
(1) Up to 16GB USB memory can be formatted. (There are recommended USB memorys.)
(2) When using a new USB memory, the area to be used must be formatted (initialized) before the PC interface command is saved or writable characters are stored.

Refer to - Bit Map Writable Character Command ([ESC] XD)

- Save Start Command ([ESC] XO)
- Save Terminate Command ([ESC] XP)


### 6.3.20 BIT MAP WRITABLE CHARACTER COMMAND [ESC] XD

## Function <br> Writes writable characters and logos in USB memory, or flash ROM on the CPU board.

Format
For USB memory or flash ROM on the CPU board
[ESC] XD; (Sj, ) aa, b, ccc, ddd, eee, fff, ggg, h, iii ------ iii [LF] [NUL]

Term
Sj: Drive
0: Flash ROM on the CPU board
1: USB memory
2: USB memory
aa: Writable character set
01 to 40
51 to 55 (2-byte code character)
b(b): Writable character code
20H to FFH (Set in hex.)
2020 H to FFFFH (When the writable character set is 51 to 55 )
ccc: Left offset 000 to 719 (in dots)
ddd: Top offset 000 to 719 (in dots)
eee: Character width 001 to 720 (in dots)
fff: Character height 001 to 720 (in dots)
ggg: Horizontal spacing/proportional spacing 000 to 999 (in dots)
$\mathrm{h}: \quad$ Type of writable character data
0: Nibble mode (4 bits/byte)
1: Hex. mode (8 bits/byte)
iii --- iii: Writable character data to be stored

Explanation (1) Type of writable character
Up to 45 writable character sets can be stored for USB memory, respectively. However, the maximum number of characters varies depending on the writable character size and number of characters because of the limited memory capacity.
(2) Character code

Up to 224 characters can be stored per character set. The maximum number of characters is 40 sets $\times 224$ characters $=8960$ characters. It varies depending on the writable character size and number of characters because of the limited memory capacity.
(3) USB memory can be used for storing a writable character.
(4) The configuration of the writable character file stored in USB memory is as follows.

| 1st byte | No. of dots for left offset <br> (from upper to lower) |
| :---: | :--- |
| 2nd byte | No. of dots for top offset <br> (from upper to lower) |
| 3rd byte | No. of dots for character height <br> (from upper to lower) |
| 4th byte | No. of dots for character width <br> (from upper to lower) |
| 5th byte | No. of dots for horizontal spacing/proportional spacing <br> 6th byte |
| 7th byte | (from upper to lower) |



- How to assign the directory name for a writable character set

Directory name for writable character $01 \rightarrow$ "0100"
Directory name for writable character $02 \rightarrow$ "0101"

Directory name for writable character $39 \rightarrow$ "0126"
Directory name for writable character $40 \rightarrow$ "0127"

Directory name for writable character $51 \rightarrow$ "0200"

Directory name for writable character $55 \rightarrow$ "0204"

- How to assign the file name

0100 0022. UDF (Writable character 40: writable character file for character code 22H) Identifier indicating the writable character file
Character code (2-byte code: Code 22H)
Writable character set (Writable character 40: Same as the directory name)

(6) Writable character set: 01 to 40,51 to 55



| Hex. mode |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 00H | 2 | OFH | 3 COH | 4 | 00H |
| 5 | FCH | 6 | 7FH |  |  |  |
|  |  |  |  | - |  |  |
|  |  |  |  | - |  |  |
|  |  |  |  | - |  |  |
|  |  |  |  | - |  |  |
|  |  |  |  | - |  |  |
|  |  |  |  | - |  |  |
|  |  |  |  | - |  |  |
|  |  |  |  | - |  | 0 OOH |
| 241 | FFH | 242 | FCH | 24300 H |  | $4 \mathrm{00H}$ |

[Nibble mode]
(1) The writable character data to be stored is separated into four dot units and sent in the following order ( $\mathbf{1} \boldsymbol{\rightarrow 2 4 8}$ ). (High order digit: " 3 ")
(2) The data of writable characters to be stored is 30 H to 3 FH .
(3) The minimum unit in the $X$ direction is 8 dots. Dots with no data are transmitted as data 0.
(4) The data count of writable characters to be stored must be as follows: Data count of writable characters to be stored $=$ $\{($ No. of char. width dots +7$) / 8\} \times$ No. of char. height dots $\times 2$

* The value in the brackets is rounded down to the nearest whole number.
[Hex. mode]
(1) The writable character data to be stored is separated into eight dot units and sent in the following order ( $1 \rightarrow$ 124).
(2) The data of writable characters to be stored is 00 H to FFH .
(3) The minimum unit in the $X$ direction is 8 dots. Dots with no data are transmitted as data 0.
(4) The data count of writable characters to be stored must be as follows: Data count of writable characters to be stored $=$ $\{($ No. of char. width dots +7$) / 8\} \times$ No. of char. height dots
* The value in the brackets is rounded down to the nearest whole number.


## Notes

(1) With the same writable character set designated, character width and character height can be designated for each writable character code. In other words, character size can be changed for each character, thus saving memory.
(2) Proportional spacing and descending characters are possible depending on the parameters of horizontal spacing/proportional spacing, left offset, and top offset.
(3) When top offset is 000, the reference coordinates are at the above left when drawing because the base line is at the top. (Coordinate setting is facilitated for logos.)
(1) No matter what character set or character code is selected, no memory will be wasted.
(2) When a new writable character is stored, Flash Memory Format Command ([ESC] J1) must be transmitted.

Refer to Flash Memory Format Command ([ESC] J1)
USB memory Format Command ([ESC] JA)

## Examples Writable character set: 03

Writable character code 70 H

[ESC] J1; C [LF] [NUL]
[ESC] XD; 03, p, 002, 022, 026, 031, 030, 0, 000?<000?<7??800?<???<00?=?03>001?
<00?001?8007001?0007801>0003801>0003<01<0001<01<0001<01<0001<01<0001<01<0001<01>0 $001<01>0003<01>0003801 ? 0007801 ? 800 ? 001 ?<01 ? 001=? 07>001<? ? ?<001<7 ? ? 8001<0 ?<$
$0001<0000001<0000001<0000001<000000 ? ? ?<0000 ? ? ?<0000 ? ? ?$ ? 0000 [LF] [NUL]

```
* 30H = "0"
31H="1"
32H = "2"
33H = "3"
34H = "4"
35H = "5"
36H = "6"
37H = "7"
38H = "8"
39H = "9"
3AH = ";"
3BH = ";"
3CH = "<"
3DH = "="
3EH = ">"
3FH = "?"
```


### 6.3.21 HEAD BROKEN DOT CHECK COMMAND [ESC] HD

Function Checks the thermal head for broken dots.

Format
[ESC]HD001(,a)[LF][NUL]. $\qquad$ All dots check

Term
a: Check result transmission (Omissible)

A: Check result is sent. (When omitted, the check result is not sent.)
Explanation (1) The Head Broken Dots Check Command is processed in batch. In the case this command is sent after the Label Issue Command which instructs issuing 100 labels, the head broken dots check will be executed after 100 labels have been issued.
(2) When the check result transmission is not disabled, the next command is processed when the broken dots check normally terminated. If any abnormality is found, an error occurs. Whether or not to send the status at an occurrence of an error depends on the setting in the Issue Command.
When the check result transmission is enabled, a head check normal end status is sent and the next command is processed when the broken dots check normally terminated. If any abnormality is found, the printer sends a head check error status and stops.

- Head check normal end status
[SOH] [STX] "0020000" [EXT] [EOT] [CR] [LF]
- Head check error status [SOH] [STX] "1720000" [EXT] [EOT] [CR] [LF]
(3) In the case of using The Head Broken Dots Check Command, this command need to be send when printer is in idle state.
[ESC] C [LF] [NUL]
[ESC] RC001; Sample [LF] [NUL]
[ESC] RC002; 001 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]
[ESC] HD001 [LF] [NUL]


### 6.3.22

 GRAPHIC COMMAND [ESC] SG
## Function Draws graphic data.

Format [ESC] SG; aaaa, bbbb, cccc, dddd, e, ggg --- ggg [LF] [NUL] or [ESC] SG0; aaaa, bbbb, cccc, dddd, e, ffff, ggg --- ggg [LF] [NUL]

Term
aaaa: Print origin of X -coordinate for drawing graphic data Fixed as 4 digits (in 0.1 mm units)
bbbb: Print origin of Y-coordinate for drawing graphic data 4 or 5 digits (in 0.1 mm units)
cccc: No. of graphic width dots
Fixed as 4 digits (in dots)
However, when the graphic data " 2 : BMP file" or " 6 : PCX file" is selected, this designation is ignored. (The information of the graphic width is contained in the graphic data.)
dddd: No. of graphic height dots 4 or 5 digits (in dots)

However, when the graphic data " 2 : BMP file" or " 6 : PCX file" is selected, this designation is ignored. (The information of the graphic width is contained in the graphic data.)
When " 3 : TOPIX compression mode" is selected for the type of graphic data:
Resolution of graphic data: *only two types
$\begin{cases}0150: & 150 \mathrm{DPI} \text { (The data is drawn in double resolution.) } \\ 0300: & 300 \mathrm{DPI} \text { (The data is drawn in single resolution.) }\end{cases}$
e: $\quad$ Type of graphic data
[ESC] SG; -- command:
0: Nibble mode (4 dots/byte) Overwrite drawing
1: Hex. mode (8 dots/byte) Overwrite drawing
2: BMP file mode (monochrome bmp) Overwrite drawing
3: TOPIX compression mode Overwrite drawing
4: Nibble mode (4 dots/byte) OR drawing
5: Hex. mode (8 dots/byte) OR drawing
6: PCX file mode (monochrome pcx) Overwrite drawing
[ESC] SGO; -- command:
A: Printer driver compression mode Overwrite drawing
ffff: Data count (Effective only for [ESC] SG0; -- command)
Fixed as 4 digits
Represents the total number of bytes for the compressed graphic data by 32 bits in Hex.
Range: 0 to 4,294,967,295 bytes
( $00 \mathrm{H}, 00 \mathrm{H}, 00 \mathrm{H}, 00 \mathrm{H}$ to $\mathrm{FFH}, \mathrm{FFH}, \mathrm{FFH}, \mathrm{FFH}$ )
ggg --- ggg: Graphic data

Explanation (1) When the graphic data " 0 ", " 1 ", " 2 ", " 3 ", " 6 ", or " $A$ " is selected, the graphic data is drawn by overwriting the image buffer.
(2) When the graphic data " 4 " or " 5 " is selected, the graphic data is drawn by carrying out OR between the graphic data and the data in the image buffer.


[Nibble mode]
(1) The graphic data is separated into four dot units and sent in the following order ( $1 \rightarrow$ 132). (High order digit: " 3 ")
(2) The graphic data is 30 H to 3 FH .
(3) The minimum unit in the X direction is 8 dots. Dots with no data are transmitted as data 0 .
(4) The graphic data count must be as follows:

Graphic data count $=\{($ No. of graphic width dots +7$) / 8\} \times$ No. of graphic height dots $\times 2$

* The value in the brackets is rounded down to the nearest whole number.
[Hex. mode]
(1) The graphic data is separated into eight dot units and sent in the following order (1 $\rightarrow 66$ ).
(2) The graphic data is 00 H to FFH .
(3) The minimum unit in the X direction is 8 dots. Dots with no data are transmitted as data 0.
(4) The graphic data count must be as follows:

Graphic data count $=\{($ No. of graphic width dots +7$) / 8\} \times$ No. of graphic height dots

* The value in the brackets is rounded down to the nearest whole number.
[When TOPIX compression mode is selected]

(1) Length: Total number of bytes of the graphic data ( $0001 \mathrm{H} \sim$ )

Ex. Length $=20$ bytes: $000 \quad 14$
(2) L1 parameter: Shows in which large block ( 512 dots/block) the changed data is contained.

(3) L2 parameter: Shows in which medium block (64 dots/block) the changed data is contained (of the L1 large block).

(4) L3 parameter: Shows in which small block (8 dots/block) the changed data is contained (of the L2 medium block).


Exclusive-OR is carried out between the current image data and the image data one line previous. Only the changed bit is set to ON (1). The alignment of dots is MSB (left dots) and LSB (right dots).

* The graphic width for only the smaller value of either the designated value or the max. buffer size ( 512 KB ) is drawn. The minimum unit of the data drawing is 8 dots ( 1 byte). If the graphic width is set to 3 dots, it will be reset to 8 dots ( 1 byte).
[When the printer driver compression mode is selected]
(1) For the [ESC] SGO; -- command, only "A: Printer driver compression mode" can be selected for the type of graphic data. The parameter for the data count is attached after the parameter for the type of graphic data. When the total number of data cannot be provided by the printer driver, " $00 \mathrm{H}, 00 \mathrm{H}, 00 \mathrm{H}, 00 \mathrm{H}$ " should be specified for the number of graphic data. However, in this case, the printer diver cannot support printing through a serial interface (RS-232C).
(2) How to compress data

Compression is performed for every data of one line specified for the number of graphic width dots.
The data is made up in units of 8 dots. A repeated value is encoded in 2 bytes. The first byte is a numeric value $n$ indicating that a value is repeated $(-n+1)$ times.
The range is between -127 and -1 . The second byte is the repeated value.
If a value is not repeated the first byte is the numeric value $m$. The length of the values is indicated in $(m+1)$. The range of " $m$ " is between 0 and 126. The length of the repetition of the value and " $m$ " should not exceed 127 and 126 , respectively.
If it exceeds the range, it should be divided into blocks of repetition.
When the same contents as the data for 1 line appear repeatedly in the next line and after, the number of lines in which the same contents appear is encoded in 2 bytes. The first byte is fixed as 127. The second byte indicates " N " times that the same contents are repeated. Its range is between 1 and 255 . " $N$ " should not exceed 255 . If it exceeds the range, the data for the excess number of times should be compressed as the new data of 1 line, and the remaining number of repetitions should be encoded.

## [Example]

Data before being compressed (Width: 120 dots, Height: 300 lines)
Line No. Graphic data
1 AAh AAh AAh AAh AAh AAh AAh BBh CCh DDh EEh FFh FFh FFh FFh 2 AAh AAh AAh AAh AAh AAh AAh BBh CCh DDh EEh FFh FFh FFh FFh

Data after being compressed
Line No. Graphic data

```
1 FAh AAh 03h BBh CCh DDh EEh FEh FFh
2 to 256 7FH FFH
257 FAh AAh 03h BBh CCh DDh EEh FDh FFh
258 to }30
```



```
-(-6) + 1 = 7
```

(1) The print origin of coordinates must be set so that the result of drawing the graphic data will be within the effective print area set by the Label Size Set Command ([ESC] D).
(2) The number of graphic width dots and the number of graphic height dots must also be set so that the result of drawing the graphic data will be within the effective print area set by the Label Size Set Command ([ESC] D) in the same manner as the above.
(3) Both width and height are 8 dots $/ \mathrm{mm}$.
(4) The actual result of drawing may deviate within $\pm 0.33 \mathrm{~mm}$ in the $X$ direction with respect to the designated print origin of the X -coordinate.
(To draw the received graphic data at high speed, the data is directly developed in the image buffer without applying correction to each bit with respect to the designated X -coordinate. Consequently, an error of up to 4 bits occurs.
[Effective print area]
[mm]

| Item Model | Model |  | 203 dpi |  |  | 300 dpi |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Issue mode |  | Batch | Strip | Cutter | Batch | Strip | Cutter |
| Effective print width |  | Min. | 13 |  |  | 13 |  |  |
|  |  | Max. |  | 108 |  |  | 105.7 |  |
| Effective print length | Label | Min. | 6 | 21.4 | 17.4 | 6 | 21.4 | 17.4 |
|  |  | Max. | 995 | 148.4 | 991 | 453.2 | 148.4 | 449.2 |
|  | Tag | Min. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |
|  | Tag | Max. | T.B.D. | --- | T.B.D. | T.B.D. | --- | T.B.D. |

## Examples


[ESC] C [LF] [NUL]
[ESC] SG; 0100, 0240, 0019, 0022, 0, 003000003800003<00003>000037000033800031 <00030<00030>00030600030>00030<00031<00033800?33003??0007??000???000??
>000??>0007? <0003?0000 [LF] [NUL]
[ESC] XS; I, 0001, 0002C3000 [LF] [NUL]

* $30 \mathrm{H}=$ " 0 " $38 \mathrm{H}=$ " 8 "
$31 \mathrm{H}=$ " 1 " $\quad 39 \mathrm{H}=$ " 9 "
$32 \mathrm{H}=$ " 2 " $\quad 3 \mathrm{AH}=$ " "
$33 \mathrm{H}=$ " 3 " $\quad 3 \mathrm{BH}=$ ";"
$34 \mathrm{H}=$ " 4 " $3 \mathrm{CH}=$ " $<$ "
$35 \mathrm{H}=$ " 5 " $3 \mathrm{DH}=$ " $=$ "
$36 \mathrm{H}=$ " 6 " $3 \mathrm{EH}=$ " $>"$
$37 \mathrm{H}=$ " 7 " $3 \mathrm{FH}=$ "?"
[TOPIX compression mode]

[ESC] SG; 0100, 0240, 0019, 0300, 3, 00 5C 80804030 Length L1 L2 L3 Data (1st line)

80804008808040048080400280804009 (2nd line) (3rd line) (4th line) (5th line)
$\underline{8080600480} 8080600240 \quad 80804001 \underline{80802020}$ (6th line) (7th line) (8th line) (9th line)
$80802080 \quad 8080208080802020 \quad 80804001$ (10th line) (11th line) (12th line) (13th line)
$\frac{8080600240}{(14 \text { th line })} \frac{8080 \mathrm{AO} \mathrm{OF} 80}{(15 \text { th line })} \frac{8080 \mathrm{CO} 30 \mathrm{C} 3}{(16 \text { th line })} \frac{80808040}{(17 \text { th line })}$
8080808080804010008080 CO 80208080 CO 40 CO [LF] [NUL] (18th line) (19th line)(20th line) (21st line) (22nd line)

### 6.3.23 SAVE START COMMAND [ESC] XO

Function Declares the start of saving PC interface commands.
(Places the printer in the mode where PC interface commands are written in USB memory, or flash ROM on the CPU board.)

Format [ESC] XO; aa, (Sb, ) c [LF] [NUL]

Term aa: Identification number to be used for saving in the USB memory or calling 01 to 99
dddddddd: Ignore
Sb : Drive in which the PC interface command is stored
b: Drive
0: Flash ROM on the CPU board
1: USB memory
2: USB memory
c: Status response at save time
0 : No status response made
1: Status response made
Explanation (1) When the PC interface command is stored in the USB memory, "Specified file name. PCS" is created under the "PIC\E" directory level.
(1) After sending the Save Start Command ([ESC] XO), any command other than the following will be saved into the USB memory.

- Save Start Command ([ESC] XO)
- Save Terminate Command ([ESC] XP)
- Saved Data Call Command ([ESC] XQ)
- Bit Map Writable Character Command ([ESC] XD)
- Reset Command ([ESC] WR)
- Status Request Command ([ESC] WS)
- Flash Memory Format Command ([ESC] J1)
- USB memory Format Command ([ESC] JA)
(2) No error check is made for the commands at save time.


## Refer to - Save Terminate Command ([ESC] XP)

- Flash Memory Format Command ([ESC] J1)
- USB memory Format Command ([ESC] JA)


## Examples

```
[ESC] J1; B [LF] [NUL]
    [ESC] XO; 01, 0 [LF] [NUL]
    [ESC] D0508, 0760, 0468 [LF] [NUL]
    [ESC] T20C30 [LF] [NUL]
    [ESC] C [LF] [NUL]
    [ESC] PC001; 0200, 0125, 1, 1, A, 00, B [LF] [NUL]
    [ESC] PC002; 0650, 0550, 2, 2, G, 33, B, +0000000001 [LF] [NUL]
    [ESC] XP [LF] [NUL]
```


### 6.3.24 SAVE TERMINATE COMMAND [ESC] XP

Function Declares the termination of saving PC interface commands.
Format [ESC] XP [LF] [NUL]
Note
Refer to Save Start Command ([ESC] XO)

### 6.3.25 SAVED DATA CALL COMMAND [ESC] XQ

## Function <br> Calls PC interface commands saved in USB memory, or flash ROM on the CPU board.

Format
[ESC] XQ; aa, (Sb,) c, d [LF] [NUL]

Term

Notes
(1) If the relevant save identifier is not found, an error will result.
(2) However, if no save number subject to auto call is found with the option for auto call at power on time selected, the option for no auto call will be selected causing no error.
(3) If a command error is found in the PC interface command in auto call at power on time by the Saved Data Call Command, a command error will result. After an error has occurred, the power must be turned off. The option for no auto call is selected when the power is turned on again.
(4) The printer enters the online mode (label issue operation) when the Save Data Call Command is sent after the Save Terminate command.

## Refer to - Save Start Command ([ESC] XO)

- Save Terminate Command ([ESC] XP)


## Examples

[ESC] XQ; 01, 0, L [LF] [NUL]
[ESC] RC001; Sample [LF] [NUL]
[ESC] RC002; 100 [LF] [NUL]
[ESC] XS; I, 0002, 0002C3000 [LF] [NUL]

### 6.3.26 RESET COMMAND [ESC] WR

Function Returns the printer to its initial state.
Format [ESC] WR [LF] [NUL]
Explanation The printer is returned to the same state as when the power was turned on. When the printer receives this command during printing, it returns to its initial state after issuing the label which is being printed. The next command must not be sent while the printer is performing initial processing after this command is transmitted.

Notes (1) This command is available for the serial interface (RS-232C), USB interfaces, or LAN interface(socket communications). (T.B.D about parallel interface (Centronics), Bluetooth interface and WLAN interface(socket communications))
(2) After the code of the Writable Character Command ([ESC] XD) or Graphic Command ([ESC] SG) is received, the Reset Command is not processed until the printer receives the data specified for the type of data.

### 6.3.27 STATUS REQUEST COMMAND [ESC] WS

Function Sends the printer status to the host computer.
Format [ESC] WS [LF] [NUL]
Explanation This command makes the printer send its status regardless of the setting of "status response/no status response." The status to be transmitted is the current printer status, and indicates the latest status only. The remaining count indicates the remaining count of the batch currently being printed. No remaining count of the batch waiting to be printed is transmitted.

Notes (1) About the transmission of this command, it is available for the serial interface (RS232C), USB interface, or LAN interface(socket communications). (T.B.D about parallel interface (Centronics), Bluetooth interface or WLAN interface(socket communications))

The response of this command is returned to all conected interfaces except parallel interface (Centronics). (T.B.D about Bluetooth interface and WLAN interface(socket communications))
(2) After the code of the Writable Character Command ([ESC] XD) or Graphic Command ([ESC] SG) is received, the Status Request Command is not processed until the printer receives the data specified for the type of data.

Example [ESC] WS [LF] [NUL]

### 6.3.28 RECEIVE BUFFER FREE SPACE STATUS REQUEST COMMAND [ESC] WB

Function Sends information on the printer status and the free space of the receive buffer to the host computer.

Format [ESC] WB [LF] [NUL]
Explanation This command makes the printer send information on its status and free space of the receive buffer regardless of the setting of "status response/no status response." The status to be transmitted is the current printer status, and indicates the latest status only. The remaining count indicates the remaining count of the batch currently being printed. No remaining count of the batch waiting to be printed is transmitted. Free space of the receive buffer for the interface which sent this command, is returned to the host.

Status Format (23 bytes)

| SOH | 01H | Indicates the top of the status block. |
| :---: | :---: | :---: |
| STX | 02H |  |
| Status | 3 XH | Detailed status |
|  | 3XH |  |
| Status type | 33H | Indicates the status requested by the WB command. |
| Remaining issue count | 3XH | Remaining number of labels to be issued. |
|  | 3XH |  |
|  | 3XH |  |
|  | 3XH |  |
| Length | 3XH | Total number of bytes of the status block. "30H30H"(0) ~ "39H39H"(99) <br> Note: In case of this status format ( 23 bytes), This is " 32 H 33 H ". |
|  | 3XH |  |
| Free space of receive buffer | 3XH | Free space of receive buffer "30H30H30H30H30H"(0 Kbyte) ~ "39H39H39H39H39H" (99999 Kbytes) <br> Note: The maximum value must be the receive buffer capacity. |
|  | 3XH |  |
|  | 3 XH |  |
|  | 3XH |  |
|  | 3XH |  |
| Receive buffer capacity | 3 XH | Receive buffer capacity "30H30H30H30H30H" (0 Kbyte) ~ "39H39H39H39H39H" (99999 Kbytes) <br> Note: The maximum value is $80 K$ bytes for $B-F V$. |
|  | 3XH |  |
|  | 3XH |  |
|  | 3XH |  |
|  | 3XH |  |
| CR | ODH | Indicates the end of the status block. |
| LF | OAH |  |

(1) About the transmission of this command, it is available for the serial interface (RS232C), USB interface, or LAN interface(socket communications). (T.B.D about parallel interface (Centronics), Bluetooth interface or WLAN interface(socket communications))

The response of this command is returned to all conected interfaces except parallel interface (Centronics). (T.B.D about Bluetooth interface and WLAN interface(socket communications))
(2) After the code of the Writable Character Command ([ESC] XD) or Graphic Command ([ESC] SG) is received, the Status Request Command is not processed until the printer receives the data specified for the type of data.

## Example <br> [ESC] WB [LF] [NUL]

### 6.3.29 VERSION INFORMATION ACQUIRE COMMAND [ESC] WV

Function Sends information such as the program version of the printer.

Format
[ESC] WV [LF] [NUL]
Explanation (1) The format of the program version data (total 27 bytes of data) to be returned to the host is as follows.

| SOH |  | 01H | - Creation date of program:9 bytes of data indicated in order of Day-Month-Year |
| :---: | :---: | :---: | :---: |
| STX |  | 02H |  |
| Creation date | "0" | 30 H |  |
|  | "4" | 34H |  |
|  | "A" | 41H |  |
|  | "P" | 50H |  |
|  | "R" | 52H |  |
|  | "2" | 32H |  |
|  | "0" | 30 H |  |
|  | "1" | 31H |  |
|  | "4" | 34 H |  |
| Model | "B" | 42H | - Model: <br> 7 bytes of ASCII code indicating model |
|  | "-" | 2DH |  |
|  | "F" | 46H |  |
|  | "V" | 56H |  |
|  | "4" | 34H |  |
|  | "D" | 44H |  |
|  | SP | 20H |  |
| Version | "V" | 56H |  |
|  | "1" | 31H |  |
|  | "." | 2EH |  |
|  | "0" | 30H |  |
|  | "A" | 41H |  |
| ETX |  | 03H | - Version |
| EOT |  | 04H |  |
| CR |  | ODH |  |
| LF |  | OAH |  |

(2) This command is one of the types of commands that is processed as it is received. Processing takes place starting from the ones received first. Until the process of the command previously sent is completed, the next command is not processed. Therefore, if the printer is not in the idle state when this command is sent, the program version data may not be returned immediately.
(1) About the transmission of this command, it is available for the serial interface (RS232C), USB interface, or LAN interface(socket communications). (T.B.D about parallel interface (Centronics), Bluetooth interface or WLAN interface(socket communications))
The response of this command is returned to all conected interfaces except parallel interface (Centronics). (T.B.D about Bluetooth interface and WLAN interface(socket communications))

### 6.3.30 USB MEMORY INFORMATION ACQUIRE COMMAND [ESC] WI

Function Sends information regarding the use of the memory board to the host.
Format
[ESC] WI; a, b [LF] [NUL]

## Term

a: Drive
1: Slot 1 USB memory
2: Slot 1 USB memory
b: Information to be acquired
A: Free space
B: Bitmap
C: Stored PC command save file
D: TrueType

## Explanation (1) The format of information to be returned to the host is as follows:

A: Free space


When the memory board is not inserted into a specified slot, " $00 \mathrm{H}, 00 \mathrm{H}, 00 \mathrm{H}, 00 \mathrm{H}$, $00 \mathrm{H}, 00 \mathrm{H} "$ is returned for the free spaces.

B: Writable character list

| SOH | STX | "B" | Slot | Storage information for writable character <br> (55 bytes) |  |  | ETX | EOT | CR | LF |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01 H | 02 H | 42 H | xXH | $" 0 " / " 1 "$ | $" 0 " / " 1 "$ | $\ldots \ldots .$. | $" 0 " / " 1 "$ | $" 0 " / " 1 "$ | 03 H | 04 H | 0 DH |



If only one writable character is stored, information of the writable character No. is set to "1" (Stored). The storage information of a specified character code can be acquired by using the memory board Stored Writable Character Information Acquire Command ([ESC] WG).
The storage information for the writable character has a total of 55 bytes. The writable character No. is assigned from 01 to 40, and from 51 to 55 . Therefore, bytes to which Nos. 41 to 50 are assigned are sure to be set to " 0 " $(30 \mathrm{H})$. When the memory board is not inserted in the specified slot, " 00 H " for the storage information for the writable character is returned.

C: Stored PC command save file

| SOH | STX | "C" | Slot | Stored PC command save file name |  |  | ETX | EOT | CR | LF |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01H | 02H | 43H | xxH | File name 100 H | File name | $00 \mathrm{H} \cdots$ File name $n 00 \mathrm{H}$ | 03H | 04H | 0DH | OAH |
|  |  |  |  |  |  |  |  |  |  |  |

In the following cases, 1 byte of " 00 H " is returned as the stored PC command save file name.
(1) There is no file.
(2) The memory board is not inserted in the specified slot.

D: Stored True Type Font file

| SOH | STX | "D" | Slot | Stored PC command save file name | ETX | EOT | CR | LF |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $01 H$ | $02 H$ | $43 H$ | xxH | File name 100 H File name $200 \mathrm{H} \cdots$ File namen 00 H | 03 H | 04 H | 0 DH | 0 HH |

In the following cases, 1 byte of " 00 H " is returned as the stored True Type Font file name.
(1) There is no file.
(2) The memory board is not inserted in the specified slot.
(2) This command is one of the types of commands that is processed as it is received. Processing takes place starting from the ones received first. Until the process of the command previously sent is completed, this command is not processed. Therefore, if the printer is not in the idle state when this command is sent, the program version data may not be returned immediately.
(1) About the transmission of this command, it is available for the serial interface (RS232C), USB interface, or LAN interface(socket communications). (T.B.D about parallel interface (Centronics), Bluetooth interface or WLAN interface(socket communications))
The response of this command is returned to all conected interfaces except parallel interface (Centronics). (T.B.D about Bluetooth interface and WLAN interface(socket communications))

### 6.3.31 PRINTER INFORMATION STORE COMMAND [ESC] IG

Function Sets the printer information.

Format
[ESC] IG; aaa --- aaabbb --- bbb [LF] [NUL]

Term

$$
\begin{array}{ll}
\text { aaa --- aaa: } & \text { Model name (Fixed as } 20 \text { digits) } \\
& 20 \mathrm{H} \text { to 7FH of ASCII codes } \\
\text { bbb --- bbb: } & \text { Serial No. (Fixed as 11digits) } \\
& 20 \mathrm{H} \text { to 7FH of ASCII codes }
\end{array}
$$

## Explanation <br> (1) The model name and serial No. of the printer can be optionally stored. The

 character codes which can be set in each item are 20 H to 7 FH . If any code other than these is used, it is replaced with the space code.(2) The printer information has already been set when shipped.
(3) The stored printer information is backed up in memory and is kept even if the power is turned off.
(4) This stored information should be printed on self-test printing.

Examples The following information is stored in the printer.
Model name: B-FV4D-GS12-QM-R
Serial No.: 2303A000001
[ESC] IG; [42H][2DH][46H][56H][34H][44H][2DH][47H][53H][31H][32H][2DH][51H][4DH][2DH] $[52 \mathrm{H}][2 \mathrm{OH}][2 \mathrm{OH}][2 \mathrm{OH}][2 \mathrm{OH}] \quad[32 \mathrm{H}][33 \mathrm{H}][30 \mathrm{H}][33 \mathrm{H}][41 \mathrm{H}][30 \mathrm{H}][30 \mathrm{H}][30 \mathrm{H}][30 \mathrm{H}][30 \mathrm{H}]$ [31H] [LF] [NUL]

Refer to Printer Information Request Command ([ESC] IR)

### 6.3.32 PRINTER INFORMATION REQUEST COMMAND [ESC] IR

Function Retrieves the printer information.

Format

## Explanation

(1) The model name and serial No. set by the Printer Information Store Command ([ESC] IG) are retrieved
[Information field]

| Model name | Serial No. |
| :---: | :---: |
| 20 bytes | 11 bytes |

Examples The following information is stored in the printer.
Model name: B-FV4D-GS12-QM-R Serial No.: 2303A000001

Model name: $\quad[42 \mathrm{H}][2 \mathrm{DH}][46 \mathrm{H}][56 \mathrm{H}][34 \mathrm{H}][44 \mathrm{H}][2 \mathrm{DH}][47 \mathrm{H}][53 \mathrm{H}][31 \mathrm{H}][32 \mathrm{H}][2 \mathrm{DH}][51 \mathrm{H}][4 \mathrm{DH}][2 \mathrm{DH}]$ $[52 \mathrm{H}][2 \mathrm{OH}][2 \mathrm{OH}][2 \mathrm{H}][2 \mathrm{OH}]$

Serial No.: $\quad[32 \mathrm{H}][33 \mathrm{H}][30 \mathrm{H}][33 \mathrm{H}][41 \mathrm{H}][30 \mathrm{H}][30 \mathrm{H}][30 \mathrm{H}][30 \mathrm{H}][30 \mathrm{H}][31 \mathrm{H}]$

Refer to Printer Information Store Command ([ESC] IG)

### 6.3.33 IP ADDRESS SET COMMAND [ESC] IP

Function Sets the IP address to be required for the network connection.

Format
[ESC] IP; a, bbb, ccc, ddd, eee [LF] [NUL]
Term
a: IP address to be set
2: Printer IP address (Initial value: 192.168.10.20)
3: Gateway IP address (Initial value: 0.0.0.0)
4: Subnet mask
(Initial value: 255.255.255.0)
bbb: First 8 bits
000 to 255
ccc: Second 8 bits 000 to 255
ddd: Third 8 bits
000 to 255
eee: Last 8 bits
000 to 255
Examples To set the printer IP address to "157.69.9.78".
[ESC] IP; 2, 157, 069, 009, 078 [LF] [NUL]

### 6.3.34 SOCKET COMMUNICATION PORT SET COMMAND [ESC] IS

Function Enables or disables the socket communication, and sets the communication port number to be used.

Format
[ESC] IS; a, bbbb [LF] [NUL]

Term
a:
0 : Socket communication is disabled.
1: Socket communication is enabled.
bbbbb: Port number (It must be set in 5 digits.)
00000 to 65535
Examples To enable the socket communication and set the port number to " 8000 ".
[ESC] IS; 1, 08000 [LF] [NUL]

### 6.3.35 DHCP FUNCTION SET COMMAND [ESC] IH

Function Enables or disables the DHCP function, and sets the DHCP client ID.

Format
[ESC] IH; a(, bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb) [LF] [NUL]

Term
a: $\quad 0:$ DHCP function is disabled.
1: DHCP function is enabled.
bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb:
DHCP client ID (Omissible. When omitted, FFH is set for all bytes.)
(16-byte data is described in 32-byte hexadecimal.)

Explanation "FFH" in the client ID is assumed as a terminator. Therefore, "FFH" must not be used in data.

If "FFH" is specified as the first byte of the DHCP client ID, the printer assumes the DHCP client ID has not been specified. So the printer uses the MAC address as the DHCP client ID instead.

DHCP client ID shall be even byte hex. format data. Otherwise, a command error occurs.

When the DHCP client ID is less than 32 bytes, insufficient bytes are filled with FFH.

Examples To enable the DHCP function and set the DHCP client ID to "12H56HCDH".
[ESC] IH; 1, 1256CDFFFFFFFFFFFFFFFFFFFFFFFFFF[LF] [NUL]

### 6.4 COMMANDS FOR SYSTEM ADMINISTRATOR

### 6.4.1 PARAMETER SET COMMAND [ESC] Z2; 1

Function Sets each parameter on the printer.

Format [ESC] Z2; 1, abcdefghijklmnopqqrst(uvw) [LF] [NUL]
Term
a: Character code selection
0: PC-850
1: PC-852
2: PC-857
3: PC-8
4: PC-851
5: PC-855
6: PC-1250
7: PC-1251
8: PC-1252
9: PC-1253
A: PC-1254
B: PC-1257
C: LATIN9
D: Arabic
E: PC-866
F: UTF-8
b: Font "0" selection
0: 0 (without slash)
1: 0 (with slash)
c: RS-232C communication speed
0: 2400 bps
1: 4800 bps
2: 9600 bps
3: 19200 bps
4: 38400 bps
5: 57600 bps
6: 115200 bps
d: $\quad$ RS-232C data length
0: 7 bits
1: 8 bits
e: Stop bit length
0: 1 bit
1: 2 bits
f: RS-232C parity check (Not initialized by parameter clearance by key operation)
0 : NONE (QM)
1: EVEN
2: ODD
g: RS-232C transmission control
0: XON/XOFF protocol : (No XON output when the power is turned on, no XOFF output when the power is turned OFF)
1: Ignore
2: Ignore
3: XON/XOFF protocol : (No XON output when the power is turned on, no XOFF output when the power is turned OFF)

4: RTS protocol : (No XON output when the power is turned on, no XOFF output when the power is turned OFF)
h: Destination selection (Not initialized by parameter clearance by key operation)
0: QM
1: Ignore
2: Ignore
3: Ignore
4: Ignore
5: CN
6: Ignore
i: Forward feed standby after an issue
0:OFF
1: ON
j : Head up operation after a label is cut
0: Ignore
1: Ignore
k: Ribbon saving system
0 : Ignore
1: Ignore
I: Type of control code
0 : Automatic selection
1: ESC, LF, NUL mode
2: $\{, \mid$,$\} mode$
m : Ribbon type selection
0 : Ignore
1: Ignore
n : Strip status selection
0: Ignore
1: Ignore
o: [FEED] key function
0: FEED: Feeds one label.
1: PRINT: Prints data from the image buffer on one label.
p : Kanji code selection
0 : Ignore
1: Ignore
qq : Euro code setting " 20 " to "FF" (Specify the hex code in 2 bytes of ASCII code) *1
r: Automatic head broken dots check
0 : OFF
1: ON
s: Centronics ACK/BUSY timing setting
0 : Ignore
1: Ignore
t: Web printer function setting
0 : Ignore
1: Ignore
u: Automatic home position detection (Omissible and not initialized by parameter clearance by key operation)
0 : Ignore
1: Ignore
v: Automatic calibration setting (Omissible and not initialized by parameter clearance by key operation)
0: OFF (Default)
1: ON with current sensor when power on
w: Printer model setting (Omissible and not initialized by parameter clearance by key operation)

0 : Ignore
1: Ignore

Explanation (1) This command is not executed until the printer enters an idle state.
(2) The parameters set by this command become effective when the power is turned on.
(3) When the Automatic head broken dots check is set to ON, the broken dots check will be performed when the power is turned on.
(4) When the Automatic calibration setting is set to ON, the automatic calibration will be performed when the power is turned on.
*1: Hex codes to be set are expressed in 2 bytes of ASCII code as shown below:
Example 1: To set 36 H : "36" $(33 \mathrm{H}, 36 \mathrm{H})$
Example 2: To set $42 \mathrm{H}: ~ " 42 "(34 \mathrm{H}, 32 \mathrm{H})$
Example 3: To set FFH: "FF" (46H, 46H)

### 6.4.2 FINE ADJUSTMENT VALUE SET COMMAND [ESC] Z2; 2

Function Sets various fine adjustment values on the printer.
Format
[ESC] Z2; 2, abbbcdddeffghhhijjkllmnnoppqqrr(ss(tt(uu))) [LF] [NUL]

Term
a: Indicates the direction, forward or backward, in which a feed length fine adjustment is to be made.
+: Ignore
-: Ignore
bbb: Feed length fine adjustment value Ignore
c: Indicates the direction, forward or backward, in which a cut position (or strip position) fine adjustment is to be made.

+ : Ignore
-: Ignore
ddd: Fine adjustment value for the cut position (or strip position) Ignore
e: Indicates whether the back feed is to be increased or decreased.
+: Ignore
-: Ignore
ff: Back feed length fine adjustment value Ignore
g: Indicates the direction, positive or negative, in which the X-coordinate fine adjustment is to be made. (Not initialized by parameter clearance by key operation.)
+: Positive direction
-: Negative direction
hhh: X-coordinate fine adjustment value (Not initialized by parameter clearance by key operation.)
000 to 995 (in units of 0.1 mm )
i: Indicates whether to increase or decrease the density in the thermal transfer print mode.
+: Ignore
-: Ignore
jj: Print density fine adjustment value (for the thermal transfer print mode) Ignore
k: Indicates whether to increase or decrease the density in the direct thermal print mode.
+: Ignore
-: Ignore
II: Print density fine adjustment value (for the direct thermal print mode) Ignore
m : Fine adjustment direction for the ribbon rewind motor voltage
-: Ignore
nn : Fine adjustment value for the ribbon rewind motor voltage
Ignore
o: Fine adjustment direction for the ribbon back tension motor voltage
+: Ignore
-: Ignore
pp: Fine adjustment value for the ribbon back tension motor voltage Ignore
qq: Reflective sensor manual threshold fine adjustment value Ignore
rr: Transmissive sensor manual threshold fine adjustment value Ignore
ss: Sensor sensitivity adjustment value for transmissive sensor (Omissible. When omitted, the sensor sensitivity is not changed. To omit this parameter, parameters "tt" and "uu" need to be omitted together. Not initialized by parameter clearance by key operation.) Ignore
tt : Sensor sensitivity adjustment value for reflective sensor (Omissible. When omitted, the reflective sensor sensitivity is not changed. To omit this parameter, parameter "uu" needs to be omitted together. Not initialized by parameter clearance by key operation.)
Ignore
uu: Blank space length adjustment value for simplified receipt mode (Omissible. When omitted, the blank space length is not changed. Not initialized by parameter clearance by key operation.)
Ignore

Explanation (1) This command is not executed until the printer enters an idle state.
(2) With some exceptions, the parameters set by this command become effective when the power is turned on or the printer is reset.
(3) X-coordinate fine adjustment value is affected print image as below.


### 6.4.3 BATCH RESET COMMAND [ESC] Z0 ${ }^{\text {(zero) }}$

Function Resets the printer.

Format [ESC] ZO [LF] [NUL]
Explanation - This command is not executed until the printer enters an idle state.

- Some values in the Parameter Set Command ([ESC] Z2;1) and the Fine Adjustment Value Set Command ([ESC Z2;2]), will become effective when the printer is initialized. This command should be sent after the Parameter Set Command ([ESC] Z2;1) or Fine Adjustment Value Set Command ([ESC] Z2;2) is sent.


## 7. CONTROL CODE SELECTION

(1) Automatic Selection

This printer automatically selects [ESC] (1BH). [LF] (0AH). [NUL] (00H) or \{(7BH). | (7CH).\} (7DH) as an interface command control code. After the power is turned on, the program checks the data from the host for [ESC] and \{ and assumes the data whichever has been sent first to be a control code.
For example, if [ESC] is sent first after the power is turned on, [ESC]. [LF]. [NUL] becomes a control code, and if $\{$ is sent first, $\{. \mid$.$\} becomes a control code. Control code selection is made for every$ command. If the first command is [ESC] ~ [LF] [NUL], followed by [ESC], the control code becomes [ESC]. [LF]. [NUL], and if it is followed by $\{$, the control code for the next command becomes $\{. \mid$.$\} .$ When $\{. \mid$.$\} is a control code, the data of 00 \mathrm{H}$ to 1 FH in $\{\sim \mid\}$ is ignored. However, the data of 00 H to 1 FH becomes valid while processing the Graphic Command or Writable Character Command in hexadecimal mode. When $\{. \mid$.$\} is a control code, \{. \mid$.$\} cannot be used in the data of the Data$ Command or Display Command.

(2) Manual Selection (ESC. LF. NUL)

The control code of the command is [ESC] (1BH). [LF] (OAH). [NUL] ( 00 H ), and the control code selection is not performed.
(3) Manual Selection ( $\{. \mid$.$\} )$

The control code of the command is $\{(7 \mathrm{BH}) . \mid(7 \mathrm{CH})\}.(7 \mathrm{DH})$, and the control code selection is not performed. Data of 00 H to 1 FH is ignored and discarded in this mode. However, data of 00 H to 1FH becomes valid while processing the Graphic Command or Writable Character Command in hexadecimal mode. $\{. \mid$.$\} cannot be used in the data of the Data Command or Display Command.$

## 8. ERROR PROCESSING

If the printer detects any of the following errors, it will display the error message (LED), makes status response (serial interface, parallel interface and USB interface), and stops its operation.

### 8.1 COMMUNICATION ERRORS

(1) Command Errors

An error results if a command length error, command transmission sequence error, command format error, or parameter designation error is found in analyzing the command. An error results if the Format Command of a field is not transmitted and its Data Command is transmitted. When attempting to call a PC Save Command of a save identifier which is not saved, an error results. An undefined command is not detected as an error, and data is discarded until [NUL] or [\}] is received.
(2) Hardware Errors

An error results if a framing error, overrun error or parity error is found during data reception when using the serial interface (RS-232C).

* At the moment when a command error or hardware error occurs, the printer shows the error message and makes status response before stopping. The Status Request Command and Reset Command only can be processed and other commands are not processed. When the printer is restored by the [FEED] key, the printer enters the initial state which is obtained after the power is turned on.


### 8.2 ERRORS IN ISSUING OR FEEDING

(1) Feed Jam
(1) When the relation between the programmed label (or tag) pitch (A) and the label (or tag) pitch detected by the sensor $(B)$ is not indicated by the following formula, an error will result: $(A) \times$ $50 \% \leq(B) \leq(A) \times 150 \%$

- A paper jam has occurred during paper feed.
- The paper is not placed properly.
- The actual label does not match the type of the sensor.
- The sensor position is not aligned with the black mark.
- The actual label size does not meet the designated label length.
- No label-to-label gap is detected due to preprint.
- The sensor is not thoroughly adjusted.
(The sensor is not adjusted for the label to be used.)
(2) If the stripped label does not cover the strip sensor when printing or feeding is completed in strip mode, an error will result.
(2) Cutter Error
- Cutter

When the cutter does not move from the cutter home position even if about 126 ms passes after send the cutting signal to cutter module, an error will result.
After send the cutting signal to cutter module, the cutter moves from the cutter home position, however, when it does not return to the cutter home position even if about 870 ms passes, an error will result.
(3) Label End
(1) When the transmissive sensor and reflective sensor detect the label end state in 10 mm continuously, an error will result.
(2) If the transmissive sensor and reflective sensor detect the label end state when an issue, feed and ejection is attempted in a printer stop state, an error will result.
(4) Head Open Error

If the head open sensor detects the open state when an issue, feed and ejection is attempted in a printer stop state, an error will result.
(5) Thermal Head Excessive Temperature

When the thermal head temperature detection thermistor detects an excessively high temperature, an error will result.
(6) The ribbon has run out

When the ribbon has been broken/torn, an error will result.
When a ribbon end occurred, an error will result.

### 8.3 ERRORS IN WRITABLE CHARACTER AND PC COMMAND SAVE MODES

(1) Write Error

- An error has occurred in writing in the Flash ROM on the CPU board or USB memory.
(2) Format Error
- An erase error has occurred in formatting the Flash ROM on the CPU board or USB memory.
(3) Memory Full
- Storing is impossible because of the insufficient Flash ROM on the CPU board or USB memory capacity.
* At the moment when an error occurs, the printer indicates the error by the LED, makes status response, then stops. The Status Request Command and Reset Command only can be processed and other commands are not processed. Restoration using the [FEED] key is impossible.


## 9. STATUS RESPONSE

### 9.1 SERIAL INTERFACE(RS-232C), USB, BLUETOOTH, LAN

### 9.1.1 FUNCTIONS

There are the following two kinds of status response functions.
(1) Status transmission function at the end of normal transmission and occurrence of an error (auto status transmission)

If the option for "status response" has been selected, the printer sends status to the host computer when the printer performs a feed or completes an issue normally (For batch/cut mode: after the designated number of labels are printed, For strip mode: after one label is printed). In the online mode, the head up/down status is sent to the host computer.

When each error occurs, the status is sent to the host computer.
The remaining count in the status response indicates the remaining count of the batch currently being printed. No remaining count of the batch waiting to be printed is transmitted.
(2) Status transmission function by status request (Status Request Command)

Upon request to send status by the Status Request Command, the printer sends the latest status indicating its current state to the host computer, regardless of the option for "status response/no status response" . The remaining count indicates the remaining count of the batch currently being printed. No remaining count of the batch waiting to be printed is transmitted. This command is not stored in the receive buffer and executed immediately when it is received.

### 9.1.2 STATUS FORMAT

| SOH | STX | Status |  |  | Remaining count |  |  |  | ETX | EOT | CR | LF |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01H | 02H | 3XH | 3XH | 3XH | 3XH | 3XH | 3XH | 3XH | 03H | 04H | ODH | OAH |
|  |  |  |  |  |  |  | Type <br> "1" <br> " 2 " | Rema <br> 000 <br> (Fix <br> f statu <br> 31H) <br> 32H) | ning <br> ~ 99 <br> d as <br> S <br> Status <br> Auto s | ount <br> 9 <br> 000 in | save <br> st Co ansm | mode) <br> mand <br> sion) |

### 9.1.3 DETAIL STATUS

| Printer Status | Detail Status |  |
| :---: | :---: | :---: |
|  | Auto Status Transmission | Status Request Command |
| The top cover(head) was closed in the online mode. | 00 | 00 |
| A head broken dots check has been completed normally. | 00 | - |
| The top cover(head) was opened in the online mode. | 01 | 01 |
| Operating (Analyzing command, drawing, printing, feeding) | - | 02 |
| Exclusively accessed by other host. | - | 03 |
| In pause | - | 04 |
| Waiting for stripping | - | 05 |
| A command error was found while analyzing the command. | 06 | 06 |
| A parity error, overrun error or framing error occurred during communication by RS-232C | 07 | 07 |
| A paper jam occurred during paper feed. | 11 | 11 |
| An abnormal condition occurred at the cutter. | 12 | 12 |
| The label has run out. | 13 | 13 |
| An attempt was made to feed or issue with the top cover(head) open.(except the [FEED] key) | 15 | 15 |
| A broken dot error has occurred in the thermal head. | 17 | 17 |
| The thermal head temperature has become excessively high. | 18 | 18 |
| The ribbon has run out. | 21 | 21 |
| The last label has been issued normally and the label has run out. | 23 | 23 |
| Reserved | 36 | 36 |
| A label issue is completed normally. | 40 | - |
| The feed has been terminated normally. | 41 | - |
| In writable character or PC command save mode. (to FlashROM on the CPU board or to USB memory) | - | 55 |
| An error has occurred in writing data into the FlashROM on the CPU board or USB memory. | 50 | 50 |
| An erase error has occurred in formatting the FlashROM on the CPU board or USB memory. | 51 | 51 |
| Saving failed because of the insufficient capacity of the FlashROM on the CPU board or USB memory. | 54 | 54 |
| The FlashROM on the CPU board or USB memory is being initialized. | - | 55 |
| An EEPROM for back up cannot be read/written properly. | 55 | 55 |

### 9.1.4 STATUS RESPONSE IN MULTIPLE SOCKET SESSIONS

Up to 5 TCP/IP socket sessions are enabled at the same time. However, received data of a new session will not be processed until older sessions are closed. The specification is changed to enable the upper host to determine whether a currently connected session is effective or not.

Connection of multiple sessions
Session 1 SYN Sesper

In the case of TCP/IP socket connection, up to 5 sessions can be connected at the same time. For the 6th and later sessions, an RST is returned and no connection is allowed.

Data received from sessions other than the oldest one will not be processed unless the data is WS, WB or WR. When a session becomes the oldest due to a disconnection of others, its data will be processed.

Status transmission when multiple sessions are connected. (In the case of "No paper" error)

Session 1 Status response $\longrightarrow \longrightarrow$| Session 1: Status request (WS) |
| :--- |
| Session 3 Status response 2 Status response |
| 1310001 |
| Session 2: Status request (WS) |
| 0310001 |
| Session 3: Status request (WS) |
| 0310001 |

In response to a status request (WS or WB) from the oldest connection, a printer status is sent to the requesting destination.

In the case a status request (WS or WB) is not sent from the oldest connection, " 03 " is returned to the requesting destination to notify that other connection is still effective.

In the case of the automatic status transmission, a printer status is sent only to the oldest

### 9.2 PARALLEL INTERFACE

| Printer Status | Output Signal |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | BUSY | SELECT | FAULT | PE |
| In the online mode | L | H | H | L |
| In the online mode (communicating) | L, H | H | H | L |
| The top cover(head) was opened in the online mode. | - | L | L | L |
| In a pause state | - | L | L | L |
| Data was set from the host with the receive buffer full. | - | H | H | L |
| After data was sent from the host with the receive buffer full, <br> some data is processed and room becomes available. | - | H | H | L |
| Initialize process in execution | - | L | L | L |
| A command error was found while analyzing the command. | - | L | L | L |
| A paper jam occurred during paper feed. | - | L | L | L |
| An abnormal condition occurred at the cutter. | - | L | L | L |
| The label has run out. | - | L | L | H |
| A feed or an issue was attempted with the top cover(head) <br> opened. (except the [FEED] key) | - | L | L | L |
| A broken dot error has occurred in the thermal head. | - | L | L | L |
| The thermal head temperature has become excessively high. | - | L | L | L |
| The ribbon has run out. | - | L | L | L |
| The last label has been issued normally and the label has run <br> out. | - | L | L | H |
| Reserved | - | H | H | L |
| In writable character or PC command save mode <br> (to FlashROM on the CPU board or to USB memory) | - | H | H | L |
| An error has occurred in writing data into the FlashROM on <br> the CPU board or USB memory. | - | L | L | L |
| An erase error has occurred in formatting the FlashROM on <br> the CPU board or USB memory. | - | L | L | L |
| Saving failed because of the insufficient capacity of the <br> FlashROM on the CPU board or USB memory. | - | L | L | L |
| The FlashROM on the CPU board or USB memory is being <br> initialized. | - | Lery power interruption has occurred. | - | L |
| A momentary | L | L |  |  |
| An EEPROM for back-up cannot be read/written properly. | - | L | L | L |


| Printer Status | Output Signal |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | BUSY | SELECT | fault | PE |
| (a) A command has been fetched from an odd address. <br> (b) Word data has been accessed from a place other than the boundary of the word data. <br> (c) Long word data has been accessed from a place other than the boundary of the long word data. <br> (d) An undefined command in a place other than the delay slot has been decoded. <br> (e) An undefined command in the delay slot has been decoded. <br> (f) A command which rewrites the data in the delay slot has been decoded. | - | L | L | L |

## 10. LED INDICATIONS

| No. | LED1 Indication |  |  | LED2 Indication |  |  | Printer Status | Restoration by <br> [FEED] key while error state Yes/No | Acceptance of Status Request Reset Command Yes/No |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Green | Red | Orange | Green | Red | Orange |  |  |  |
| 1 | $\bigcirc$ |  |  | $\times$ | $x$ |  | In the online mode | - | Yes |
|  | $\star$ |  |  | $\times$ | $x$ |  | In the online mode (Communicating) | - | Yes |
| 2 | $\times$ | $\times$ |  | $\times$ | $\times$ |  | The top cover(head) was opened in the online mode. | - | Yes |
| 3 | $t$ |  |  | $\times$ | x |  | In a pause state | Yes | Yes |
| 4 |  | - |  | $\bigcirc$ |  |  | A parity error, overrun error or framing error has occurred during communication by RS-232C. | Yes | Yes |
| 5 |  |  | - | $\bigcirc$ |  |  | A paper jam occurred during paper feed. | Yes | Yes |
| 6 |  | $\bigcirc$ |  | $\star$ |  |  | An abnormal condition occurred at the cutter. | Yes | Yes |
| 7 |  |  | $\bigcirc$ |  | $\bigcirc$ |  | The label has run out. | Yes | Yes |
| 8 |  | $\bigcirc$ |  |  | © |  | A feed or an issue was attempted with the top cover(head) opened. <br> (except the [FEED] key) | Yes | Yes |
| 9 |  | $\bigcirc$ |  |  |  | © | A broken dot error has occurred in the thermal head. | Yes | Yes |
| 10 |  | $\bigcirc$ |  |  |  | * | The thermal head temperature has become excessively high. | No *2 | Yes |
| 11 |  |  | $\bigcirc$ |  |  | $\bigcirc$ | The ribbon has run out. | Yes | Yes |
| 12 |  |  | $\bigcirc$ |  | * |  | The last label has been issued normally and the label has run out. | Yes | Yes |
| 13 |  | $\bigcirc$ |  |  | $+$ |  | Reserved | No | Yes |
| 14 | - |  |  | - |  |  | In writable character or PC command save mode | - | Yes |
| 15 |  | $\bigcirc$ |  | $\bigcirc$ |  |  | An error has occurred in writing data into the FlashROM on the CPU board or USB memory. | No | Yes |
| 16 |  | $\bigcirc$ |  | $\bigcirc$ |  |  | An erase error has occurred in formatting the FlashROM on the CPU board or USB memory. | No | Yes |
| 17 |  | $\bigcirc$ |  | $\bigcirc$ |  |  | Saving failed because of the insufficient capacity of the FlashROM on the CPU board or USB memory. | No | Yes |
| 18 | $\bigcirc$ |  |  | © |  |  | The FlashROM on the CPU board or USB memory is being initialized. | - | - |
| 19 |  | $\bigcirc$ |  | $\times$ | $\times$ |  | An EEPROM for back-up cannot be read/written properly. | No | No |


| No. | LED1 Indication |  |  | LED2 Indication |  |  | Printer Status | Restoration by [FEED] key while error state Yes/No | Acceptance of Status Request Reset Command Yes/No |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Green | Red | Orange | Green | Red | Orange |  |  |  |
| 20 |  | $\bigcirc$ |  | $\times$ | $\times$ |  | (a) A command has been fetched from an odd address. <br> (b) Word data has been accessed from a place other than the boundary of the word data. <br> (c) Long word data has been accessed from a place other than the boundary of the long word data. <br> (d) An undefined command in a place other than the delay slot has been decoded. <br> (e) An undefined command in the delay slot has been decoded. <br> (f) A command which rewrites the data in the delay slot has been decoded. <br> (g) The thermal head cannot be detected. | No | No |
| 21 |  | $\bigcirc$ |  | $t$ |  |  | A command error was found while checking the command sequence. | Yes | Yes |
| 22 | $\bigcirc$ |  |  |  | (0*1 | ©*1 | In updating firmware | - | No |
| 23 |  | ( $)$ |  | $\times$ | $\times$ |  | An error has occurred in updating firmware | No | No |

NOTE 1: - : On

+ :Slow-speed Blinking (Interval: 2.0sec)
(0) :Medium-speed Blinking (Interval: 1.0sec)
$\star$ :Fast-speed Blinking (Interval: 0.5sec)
X : Off

Red and orange lights alternatively blink for every one-second.
*2 "The thermal head temperature has become excessively high" restore automatically.

## 11．CHARACTER CODE TABLE

The followings are the character code tables．However，the characters which can be printed are different according to the character type．

## 11．1 TIMES ROMAN，HELVETICA，LETTER GOTHIC，PRESTIGE ELITE，COURIER

（Bit map font type：A，B，C，D，E，F，G，H，I，J，K，L，N，O，P，Q，R）
（1）PC－850，PC－866

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | ＠ | P |  | p | Ç | É | á | $€$ |  | ð | Ó | － |
| 1 |  |  | ！ | 1 | A | Q | a | q | ü | æ | í |  |  | Đ | B | $\pm$ |
| 2 |  |  | ＂ | 2 | B | R | b | r | é | た | ó |  |  | É | Ô | ＝ |
| 3 |  |  | \＃ | 3 | C | S | C | S | â | ô | ú |  |  | Ë | Ò | 3／4 |
| 4 |  |  | \＄ | 4 | D | T | d | t | ä | ö | ñ |  |  | Ė | õ | IT |
| 5 |  |  | \％ | 5 | E | U | e | u | à | ò | $\tilde{N}$ | Á |  | 1 | Õ | § |
| 6 |  |  | \＆ | 6 | F | V | f | V | à | û | a | Â | ã | Í | $\mu$ | $\div$ |
| 7 |  |  | ， | 7 | G | W | g | w | ç | ù | $\bigcirc$ | À | Ã | Î | p |  |
| 8 |  |  | （ | 8 | H | X | h | X | ê | $\ddot{\text { ÿ }}$ | i | © |  | Ï | $p$ |  |
| 9 |  |  | ） | 9 | 1 | Y | i | y | ë | Ö | ® |  |  |  | Ú |  |
| A |  |  | ＊ | ： | J | Z | j | z | è | Ü | 7 |  |  |  | Û | － |
| B |  |  | ＋ | ； | K | ［ | k | \｛ | ï | $\varnothing$ | 1／2 |  |  |  | Ù | 1 |
| C |  |  | ， | ＜ | L | 1 | 1 | 1 | î | £ | $1 / 4$ |  |  |  | y | 3 |
| D |  |  | － | ＝ | M | ］ | m | \} | ì | $\varnothing$ | i | $\phi$ |  | I | Y＇ | 2 |
| E |  |  |  | ＞ | N | $\wedge$ | n | $\sim$ | Ä | $\times$ | « | $¥$ |  | İ |  | $\square$ |
| F |  |  | 1 | ？ | 0 |  | 0 | § | Å | $f$ | ＂ |  | a |  |  |  |

The Euro code（BOH）can be changed in the parameter set command．
（2）PC－8

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | ＠ | $P$ | － | p | Ç | É | á | も |  |  | $\alpha$ | $\equiv$ |
| 1 |  |  | ！ | 1 | A | Q | a | q | ü | æ | í |  |  |  | $\beta$ | $\pm$ |
| 2 |  |  | ＂ | 2 | B | R | b | r | é | 无 | ó |  |  |  | $\Gamma$ | $\geq$ |
| 3 |  |  | \＃ | 3 | C | S | C | s | â | ô | ú |  |  |  | $\pi$ | $\leq$ |
| 4 |  |  | \＄ | 4 | D | T | d | t | ä | Ö | n |  |  |  | $\Sigma$ | 1 |
| 5 |  |  | \％ | 5 | E | U | e | u | à | ò | N |  |  |  | $\sigma$ | J |
| 6 |  |  | \＆ | 6 | F | V | f | v | å | û | $\underline{\square}$ |  |  |  | $\mu$ | $\div$ |
| 7 |  |  | ＇ | 7 | G | W | g | W | Ç | ù | $\bigcirc$ |  |  |  | $\tau$ | $\approx$ |
| 8 |  |  | $($ | 8 | H | X | h | x | ê | ÿ | i |  |  |  | $\Phi$ | － |
| 9 |  |  | ） | 9 | 1 | Y | i | y | ë | Ö | $\ulcorner$ |  |  |  | $\Theta$ | $\bullet$ |
| A |  |  | ＊ | ： | J | Z | j | z | è | Ü | $\neg$ |  |  |  | $\Omega$ | $\bullet$ |
| B |  |  | ＋ | ； | K | ［ | k | \｛ | ï | ¢ | 1／2 |  |  |  | $\delta$ | $\sqrt{ }$ |
| C |  |  | ， | ＜ | L | 1 | 1 | 1 | î | £ | $1 / 4$ |  |  |  | $\infty$ | n |
| D |  |  | － | $=$ | M | ］ | m | \} | ì | ¥ | i |  |  |  | $\varnothing$ | 2 |
| E |  |  | ． | $>$ | N | $\wedge$ | n | $\sim$ | Ä | Pt | « |  |  |  | $\varepsilon$ | $\square$ |
| F |  |  | 1 | ？ | 0 |  | 0 | \％ | Å | J | » |  |  |  | $\bigcirc$ |  |

The Euro code（ BOH ）can be changed in the parameter set command．
(3) PC-852

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | $P$ |  | p | Ç | É | á | $€$ |  |  | Ó | - |
| 1 |  |  | ! | 1 | A | Q | a | q | u |  | í |  |  | Đ | B |  |
| 2 |  |  | " | 2 | B | R | b | r | é |  | ó |  |  |  | Ô |  |
| 3 |  |  | \# | 3 | C | S | C | S | â | ô | ú |  |  | Ë |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t | ä | ö |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  | Á |  |  |  | § |
| 6 |  |  | \& | 6 | F | V | f | V |  |  |  | Â |  | İ |  | $\div$ |
| 7 |  |  |  | 7 | G | W | g | w | Ç |  |  |  |  | Î |  |  |
| 8 |  |  | ( | 8 | H | X | h | x |  |  |  |  |  |  |  | - |
| 9 |  |  | ) | 9 | 1 | Y | i | y | ë | Ö |  |  |  |  | Ú | . |
| A |  |  | * | : | J | Z | j | z |  | Ü | ᄀ |  |  |  |  | - |
| B |  |  | + | ; | K | [ | k | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L | 1 | 1 | 1 | î |  |  |  |  |  | ý |  |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  |  |  | Ý |  |
| E |  |  |  | $>$ | N | $\wedge$ | n | $\sim$ | Ä | $\times$ | « |  |  |  |  | $\square$ |
| F |  |  | 1 | ? | O |  | 0 | 又 |  |  | " |  | a |  |  |  |

The Euro code ( BOH ) can be changed in the
parameter set command.
(4) PC-857

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P | - | p | Ç | É | á | $€$ |  | $\bigcirc$ | Ó | - |
| 1 |  |  | ! | 1 | A | Q | a | q | ü | æ | í |  |  | - | B | $\pm$ |
| 2 |  |  | " | 2 | B | R | b | r | é | た | ó |  |  | E | Ô |  |
| 3 |  |  | \# | 3 | C | S | C | S | â | ô | ú |  |  | Ë | Ò | $3 / 4$ |
| 4 |  |  | \$ | 4 | D | T | d | t | ä | ö | ñ |  |  | È | õ | II |
| 5 |  |  | \% | 5 | E | U | e | u | à | ò | $\tilde{N}$ | Á |  |  | Õ | $\S$ |
| 6 |  |  | \& | 6 | F | V | f | V | å | û |  | Â | ã | Í | $\mu$ | $\div$ |
| 7 |  |  | ' | 7 | G | W | g | w | ç | ù |  | À | Ã | Î |  |  |
| 8 |  |  | $($ | 8 | H | X | h | X | ê |  | i | © |  | Ï | $\times$ | - |
| 9 |  |  | ) | 9 | I | Y | i | y | ë | Ö | ® |  |  |  | Ú | * |
| A |  |  | * | : | J | Z | j | Z | è | Ü | 7 |  |  |  | Û | - |
| B |  |  | + | ; | K | [ | k | \{ | i | $\varnothing$ | 1/2 |  |  |  | Ù | 1 |
| C |  |  | , | < | L | 1 | 1 | 1 | ̂̂ | £ | $1 / 4$ |  |  |  | ì | 3 |
| D |  |  | - | = | M | ] | m | \} |  | $\varnothing$ | i | $\phi$ |  | ! | $\ddot{\text { y }}$ | 2 |
| E |  |  |  | $>$ | N | $\wedge$ | n | $\sim$ | Ä |  | « | $¥$ |  | Ì |  | $\square$ |
| F |  |  | 1 | ? | 0 |  | 0 | \$ | Å |  | " |  | a |  | , |  |

The Euro code (BOH) can be changed in the parameter set command.
（5）PC－851

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | ＠ | P |  | p | Ç |  |  | € |  |  |  |  |
| 1 |  |  | ！ | 1 | A | Q | a | q | ü |  |  |  |  |  |  | $\pm$ |
| 2 |  |  | ＂ | 2 | B | R | b | r | é |  |  |  |  |  |  |  |
| 3 |  |  | \＃ | 3 | C | S | C | S | â | ô |  |  |  |  |  |  |
| 4 |  |  | \＄ | 4 | D | T | d | t | ä | ö |  |  |  |  |  |  |
| 5 |  |  | \％ | 5 | E | U | e | u | à |  |  |  |  |  |  | $\S$ |
| 6 |  |  | \＆ | 6 | F | V | f | V |  | û |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W | g | w | ç | ù |  |  |  |  |  |  |
| 8 |  |  | （ | 8 | H | X | h | x | ê |  |  |  |  |  |  | 。 |
| 9 |  |  | ） | 9 | 1 | Y | i | y | ë | Ö |  |  |  |  |  | ${ }^{*}$ |
| A |  |  | ＊ | ： | J | Z | j | z | è | Ü |  |  |  |  |  |  |
| B |  |  | ＋ | ； | K | ［ | k | \｛ | Ï |  | 1／2 |  |  |  |  |  |
| C |  |  | ， | ＜ | L | 1 | 1 | 1 | î | £ |  |  |  |  |  |  |
| D |  |  | － | ＝ | M | ］ | m | \} |  |  |  |  |  |  |  |  |
| E |  |  | ． | $>$ | N | $\wedge$ | n | $\sim$ | Ä |  | ＂ |  |  |  |  | $\square$ |
| F |  |  | 1 | ？ | 0 |  | 0 | 䆖 |  |  | ＂ |  |  |  |  |  |

The Euro code $(\mathrm{BOH})$ can be changed in the parameter set command．
（6）PC－855

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | ＠ | P |  | p |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | ！ | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 |  |  | ＂ | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 |  |  | \＃ | 3 | C | S | C | s |  |  |  |  |  |  |  |  |
| 4 |  |  | \＄ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 |  |  | \％ | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 |  |  | \＆ | 6 | F | V | f | v |  |  |  |  |  |  |  |  |
| 7 |  |  | ， | 7 | G | W | g | W |  |  |  |  |  |  |  |  |
| 8 |  |  | （ | 8 | H | X | h | X |  |  |  |  |  |  |  |  |
| 9 |  |  | ） | 9 | 1 | Y | i | y |  |  |  |  |  |  |  |  |
| A |  |  | ＊ | ： | J | Z | j | z |  |  |  |  |  |  |  |  |
| B |  |  | ＋ | ； | K | ［ | k | \｛ |  |  |  |  |  |  |  |  |
| C |  |  | ， | ＜ | L | 1 | 1 |  |  |  |  |  |  |  |  |  |
| D |  |  | － | ＝ | M | ］ | m | \} |  |  |  |  |  |  |  | $\S$ |
| E |  |  | ． | ＞ | N | $\wedge$ | n | $\sim$ |  |  | « |  |  |  |  | $\square$ |
| F |  |  | 1 | ？ | O |  | 0 | 縟 |  |  | » |  | a |  |  |  |

The Euro code（ BOH ）can be changed in the
parameter set command．
(7) PC-1250

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  | $\pm$ | Á |  | á |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  |  |  | Â |  | â |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  |  |  |  | Ó |  | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a | , | Ä | Ô | ä | ô |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  | $\mu$ |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | $f$ | v |  |  | I | II |  | Ö |  | ö |
| 7 |  |  | , | 7 | G | W | g | w |  |  | § | . | Ç | $\times$ | Ç | $\div$ |
| 8 |  |  | $($ | 8 | H | X | h | X |  |  | .. |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | i | y |  |  | © |  | É |  | é |  |
| A |  |  | * | : | J | Z | j | z |  |  |  |  |  | Ú |  | ú |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " | Ë |  | ë |  |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ |  |  | Ü |  | ü |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  | İ | Ý | í | ý |
| E |  |  |  | > | N | $\wedge$ | n | $\sim$ |  |  | ${ }^{\circledR}$ |  | Î |  | î |  |
| F |  |  | 1 | ? | 0 |  | 0 | \% |  |  |  |  |  | B |  |  |

The Euro code $(\mathrm{BOH})$ can be changed in the parameter set command.
(8) PC-1251

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | $!$ | 1 | A | Q | a | q |  |  |  | $\pm$ |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | c | S |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  | $\mu$ |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | f | v |  |  | 1 | II |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | g | w |  |  | § | . |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | 1 | y |  |  | © |  |  |  |  |  |
| A |  |  | * | : | J | Z | j | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " |  |  |  |  |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ |  |  |  |  |  |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ |  |  | ® |  |  |  |  |  |
| F |  |  | 1 | ? | O |  | 0 | 砣 |  |  |  |  |  |  |  |  |

The Euro code ( BOH ) can be changed in the
parameter set command.
（9）PC－1252

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | ＠ | P |  | p |  |  |  | $€$ | À | Đ | à | ठ |
| 1 |  |  | ！ | 1 | A | Q | a | q |  |  | i | $\pm$ | Á | $\tilde{N}$ | á | ñ |
| 2 |  |  | ＂ | 2 | B | R | b | r |  |  | $\phi$ | 2 | Â | Ò | â | ò |
| 3 |  |  | \＃ | 3 | C | S | c | S | $f$ |  | £ | 3 | Ã | Ó | ã | ó |
| 4 |  |  | \＄ | 4 | D | T | d | t |  |  | a | ， | Ä | Ô | ä | ô |
| 5 |  |  | \％ | 5 | E | U | e | u |  |  | ¥ | $\mu$ | Å | O | à | õ |
| 6 |  |  | \＆ | 6 | F | V | f | v |  |  | I | II | た | Ö | æ | Ö |
| 7 |  |  | ， | 7 | G | W | g | w |  |  | § | ． | Ç | $\times$ | Ç | $\div$ |
| 8 |  |  | （ | 8 | H | X | h | X | $\wedge$ | $\sim$ | ． |  | Ė | $\varnothing$ | è | $\varnothing$ |
| 9 |  |  | ） | 9 | 1 | Y | 1 | y |  |  | © | 1 | É | Ù | é | ù |
| A |  |  | ＊ | ： | J | Z | j | z |  |  | a | $\bigcirc$ | $\hat{E}$ | Ú | ê | ú |
| B |  |  | ＋ | ； | K | ［ | k | \｛ |  |  | « | ＂ | Ë | Û | ë | û |
| C |  |  | ， | ＜ | L | 1 | 1 | 1 |  |  | ᄀ | $1 / 4$ | 1 | Ü | ì | ü |
| D |  |  | － | ＝ | M | ］ | m | \} |  |  |  | 1／2 | Í | Ý | í | ý |
| E |  |  |  | $>$ | N | $\wedge$ | n | $\sim$ |  |  | ® | 3／4 | 1 | P | î | p |
| F |  |  | 1 | ？ | 0 |  | 0 | 荿 |  |  |  | i | Ï | B | İ | $\ddot{\text { y }}$ |

The Euro code $(\mathrm{BOH})$ can be changed in the
parameter set command．
（10）PC－1253

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | ＠ | P |  | p |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | ！ | 1 | A | Q | a | q |  |  |  | $\pm$ |  |  |  |  |
| 2 |  |  | ＂ | 2 | B | R | b | r |  |  |  | 2 |  |  |  |  |
| 3 |  |  | \＃ | 3 | C | S | c | S | $f$ |  | £ | 3 |  |  |  |  |
| 4 |  |  | \＄ | 4 | D | T | d | t |  |  | a |  |  |  |  |  |
| 5 |  |  | \％ | 5 | E | U | e | u |  |  | $¥$ | $\mu$ |  |  |  |  |
| 6 |  |  | \＆ | 6 | F | V | f | v |  |  | 1 | 1 |  |  |  |  |
| 7 |  |  |  | 7 | G | W | g | w |  |  | § | $\cdot$ |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | h | X |  |  | ＊ |  |  |  |  |  |
| 9 |  |  | $)$ | 9 | 1 | Y | i | y |  |  | © |  |  |  |  |  |
| A |  |  | ＊ | ： | J | Z | j | z |  |  | $\underline{\square}$ |  |  |  |  |  |
| B |  |  | ＋ | ； | K | ［ | k | \｛ |  |  | « | ＂ |  |  |  |  |
| C |  |  | ， | ＜ | L | 1 | 1 | 1 |  |  | ᄀ |  |  |  |  |  |
| D |  |  | － | ＝ | M | ］ | m | \} |  |  |  | $1 / 2$ |  |  |  |  |
| E |  |  |  | $>$ | N | $\wedge$ | n | $\sim$ |  |  | ® |  |  |  |  |  |
| F |  |  | 1 | ？ | 0 |  | 0 | 妆 |  |  |  |  |  |  |  |  |

The Euro code（ BOH ）can be changed in the
parameter set command．
(11) PC-1254

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | $P$ |  | p |  |  |  | $€$ | À |  | à |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  | i | $\pm$ | Á | Ñ | á | ñ |
| 2 |  |  | " | 2 | B | R | b | r |  |  | ¢ | 2 | Â | Ò | â | ò |
| 3 |  |  | \# | 3 | C | S | C | S | $f$ |  | £ | 3 | Ã | Ó | ã | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a | , | Ä | Ô | ä | ô |
| 5 |  |  | \% | 5 | E | U | e | u |  |  | ¥ | $\mu$ | A | Õ | å | õ |
| 6 |  |  | \& | 6 | F | V | f | v |  |  | I | II | F | Ö | æ | ö |
| 7 |  |  |  | 7 | G | W | g | w |  |  | § | . | Ç | $\times$ | Ç | $\div$ |
| 8 |  |  | $($ | 8 | H | X | h | X | $\wedge$ | $\sim$ | .. |  | E | $\varnothing$ | è | $\varnothing$ |
| 9 |  |  | ) | 9 | I | Y | I | y |  |  | © | 1 | É | Ù | é | ù |
| A |  |  | * | : | J | Z | j | z |  |  | a | $\bigcirc$ | E | Ú | ê | ú |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " | Ë | Û | ë | û |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ | $1 / 4$ | I | Ü | ì | ü |
| D |  |  | - | = | M | ] | m | \} |  |  |  | $1 / 2$ | I |  | í | 1 |
| E |  |  |  | $>$ | N | $\wedge$ | n | $\sim$ |  |  | ® | 3/4 | Î |  | î |  |
| F |  |  | 1 | ? | 0 |  | 0 | \% |  |  |  | i | 1 | B | ï | $\ddot{\text { ÿ }}$ |

The Euro code $(\mathrm{BOH})$ can be changed in the
parameter set command.
(12) PC-1257

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | € |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  | $\pm$ |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  | $\phi$ | 2 |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  | £ | 3 |  | Ó |  | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a | ' | Ä |  | ä |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  | $\mu$ | Å | Õ | å | õ |
| 6 |  |  | \& | 6 | F | V | f | v |  |  | 1 | II |  | Ö |  | Ö |
| 7 |  |  | ' | 7 | G | W | g | W |  |  | § | . |  | $\times$ |  | $\div$ |
| 8 |  |  | ( | 8 | H | X | h | X |  |  | $\varnothing$ | $\varnothing$ |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | i | y |  |  | © | 1 | É |  | é |  |
| A |  |  | * | : | J | Z | j | Z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " |  |  |  |  |
| C |  |  | , | $<$ | L | 1 | 1 | 1 |  |  | 7 | $1 / 4$ |  | Ü |  | ü |
| D |  |  | - | $=$ | M | ] | m | \} | * | - |  | 1/2 |  |  |  |  |
| E |  |  | . | $>$ | N | $\wedge$ | n | $\sim$ |  |  | ® | 3/4 |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 | 药 | , |  | F | æ |  | B |  |  |

The Euro code ( BOH ) can be changed in the
parameter set command.
(13) LATIN9

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | $€$ | À | Đ | à | ð |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  | i | $\pm$ | Á | Ñ | á | ñ |
| 2 |  |  | " | 2 | B | R | b | r |  |  | $\phi$ | 2 | Â | Ò | â | ò |
| 3 |  |  | \# | 3 | C | S | C | S |  |  | £ | 3 | Ã | Ó | ã | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | $€$ |  | Ä | Ô | ä | ô |
| 5 |  |  | \% | 5 | E | U | e | u |  |  | ¥ | $\mu$ | Å | Õ | å | õ |
| 6 |  |  | \& | 6 | F | V | f | v |  |  |  | II | Æ | Ö | æ | ö |
| 7 |  |  | , | 7 | G | W | g | w |  |  | $\S$ | . | Ç | $\times$ | Ç | $\div$ |
| 8 |  |  | $($ | 8 | H | X | h | x |  |  |  |  | Ė | $\varnothing$ | è | $\varnothing$ |
| 9 |  |  | ) | 9 | I | Y | 1 | y |  |  | © | 1 | É | Ù | é | ù |
| A |  |  | * | : | J | Z | j | z |  |  | a | $\bigcirc$ | É | Ú | ê | ú |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " | Ë | Û | ë | û |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ |  | Ì | Ü | ì | ü |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  | Í | Ý | í | y |
| E |  |  |  | $>$ | N | $\wedge$ | n | $\sim$ |  |  | ® |  | $\hat{1}$ | P | î | p |
| F |  |  | 1 | ? | 0 |  | 0 | \% |  |  |  | i | Ï | B | ï | $\ddot{\text { y }}$ |

The Euro code $(\mathrm{BOH})$ can be changed in the
parameter set command.
(14) Arabic

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | € |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | f | v |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | h | X |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | i | y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | j | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | $<$ | L | 1 | 1 | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E |  |  |  | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 | 级 |  |  |  |  |  |  |  |  |

The Euro code ( BOH ) can be changed in the
parameter set command.

### 11.2 PRESENTATION (Bit map font type: M)

(1) PC-850, PC-857, PC-866

|  | 0 | 1 |  | 2 | 3 | 4 |  | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  |  | 0 | @ |  | P |  | P |  |  |  | $€$ |  |  |  | - |
| 1 |  |  |  | ! | 1 | A |  | Q | A | Q |  |  |  |  |  |  |  |  |
| 2 |  |  |  | " | 2 | B |  | R | в | R |  |  |  |  |  |  |  |  |
| 3 |  |  |  | \# | 3 | C |  | S | c | s |  |  |  |  |  |  |  |  |
| 4 |  |  |  | \$ | 4 | D |  | T | D | T |  |  |  |  |  |  |  |  |
| 5 |  |  |  | \% | 5 | E |  | U | E | $\cup$ |  |  |  |  |  |  |  |  |
| 6 |  |  |  | \& | 6 | F |  | V | F | $v$ |  |  |  |  |  |  |  |  |
| 7 |  |  |  | ' | 7 | G |  | W | G | w |  |  |  |  |  |  |  |  |
| 8 |  |  |  | $($ | 8 | H |  | X | H | $x$ |  |  |  |  |  |  |  |  |
| 9 |  |  |  | ) | 9 | I |  | Y | 1 | r |  |  |  |  |  |  |  |  |
| A |  |  |  | . | : | J |  | Z | J | z |  |  |  |  |  |  |  |  |
| B |  |  |  | + | ; | K |  | [ | K | \{ |  |  |  |  |  |  |  |  |
| C |  |  |  |  | < | L |  | 1 | L | 1 |  |  |  |  |  |  |  |  |
| D |  |  |  | - | $=$ | M |  | ] | m | \} |  |  |  |  |  |  |  |  |
| E |  |  |  |  | $>$ | N |  | $\wedge$ | N | $\sim$ |  |  |  | $¥$ |  |  |  |  |
| F |  |  |  | 1 | ? | 0 |  |  | - | \% |  |  |  |  |  |  |  |  |

The Euro code ( BOH ) can be changed in the
parameter set command.
(2) $\mathrm{PC}-8$

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | P |  |  |  | € |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | A | Q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | B | R |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | c | s |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | D | T |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | E | U |  |  |  |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | F | $v$ |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | G | w |  |  |  |  |  |  |  |  |
| 8 |  |  | ( | 8 | H | X | H | $\times$ |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | 1 | Y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | J | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  |  |  |  |  |  |  |
| C |  |  |  | < | L | 1 | L | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | = | M | ] | M | \} |  | $¥$ |  |  |  |  |  |  |
| E |  |  |  | > | N | $\wedge$ | N | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | O |  | - |  |  |  |  |  |  |  |  |  |

The Euro code $(\mathrm{BOH})$ can be changed in the parameter set command.
(3) PC-852

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | P |  |  |  | $€$ |  |  |  | - |
| 1 |  |  | $!$ | 1 | A | Q | A | Q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | B | R |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | s |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | D | T |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | E | U |  |  |  |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | F | v |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | G | w |  |  |  |  |  |  |  |  |
| 8 |  |  | 1 | 8 | H | X | H | X |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | 1 | Y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | J | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | K | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L | 1 | L | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | = | M | ] | M | \} |  |  |  |  |  |  |  |  |
| E |  |  | . | > | N | $\wedge$ | N | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 |  |  |  |  |  |  |  |  |  |

The Euro code ( BOH ) can be changed in the parameter set command.
(4) PC-851, PC-855, PC-1250, PC-1251, PC-1257, Arabic

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | P |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | A | Q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | B | R |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | D | T |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | E | U |  |  |  |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | F | v |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | G | w |  |  |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | H | x |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | I | Y | 1 | Y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | J | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | K | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L | 1 | L | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | = | M | ] | M | \} |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N | $\wedge$ | N | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 | $\square$ |  |  |  |  |  |  |  |  |

The Euro code ( BOH ) can be changed in the
parameter set command.
(5) PC-1252, PC-1254

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | P |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | A | Q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | B | R |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | D | T |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | E | $u$ |  |  | ¥ |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | F | v |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | G | w |  |  |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | H | X | $\wedge$ | $\sim$ |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | 1 | Y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | J | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | K | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L | 1 | L | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E |  |  |  | > | N | $\wedge$ | N | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 | $\square$ |  |  |  |  |  |  |  |  |

The Euro code (BOH) can be changed in the parameter set command.
(6) PC-1253

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | P |  |  |  | $€$ |  |  |  | - |
| 1 |  |  | ! | 1 | A | Q | A | Q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | B | R |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | D | T |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | E | U |  |  | ¥ |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | F | v |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | G | w |  |  |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | H | x |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | I | Y | 1 | Y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | J | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | K | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L | 1 | L | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | = | M | ] | M | \} |  |  |  |  |  |  |  |  |
| E |  |  | . | > | N | $\wedge$ | N | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 | - |  |  |  |  |  |  |  |  |

The Euro code ( BOH ) can be changed in the
parameter set command.
(7) LATIN9

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | P |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | A | Q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | B | R |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | D | T |  |  | € |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | E | U |  |  | ¥ |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | F | V |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | G | w |  |  |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | H | x |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | 1 | Y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | J | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | K | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L | 1 | L | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | = | M | ] | M | \} |  |  |  |  |  |  |  |  |
| E |  |  |  | > | N | $\wedge$ | N | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 | - |  |  |  |  |  |  |  |  |

The Euro code (BOH) can be changed in the parameter set command.
11.3 OCR-A (Bit map font type: S)
(1) PC-850, PC-857, PC-866
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P | H |  |  |  |  |  |  |  |  |  |

(2) 300-dpi print head model

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

(2) PC-8
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P | H |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  | 1 | A | Q |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  | N | 2 | B | R |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  | $¥$ |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | O |  |  |  |  |  |  |  |  |  |  |  |

(2) 300-dpi print head model

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

(3) PC-852
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P | H |  |  |  |  |  |  |  |  | - |
| 1 |  |  |  | 1 | A | Q |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  | N | 2 | B | R |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

(2) 300-dpi print head model

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

(4) PC-851, PC-855, PC-1250, PC-1251, PC-1257, Arabic
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P | H |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  | 1 | A | Q |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  | N | 2 | B | R |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | O |  |  |  |  |  |  |  |  |  |  |  |

(2) 300-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P | H | p |  |  |  |  |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | c | S |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | f | V |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 |  |  | ( | 8 | H | X | h | X |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | I | Y | i | y |  |  |  |  |  |  |  |  |
| A |  |  | * | . | J | Z | j | Z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L | $\backslash$ | 1 | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | $=$ | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N | $\wedge$ | n | $\Sigma$ |  |  |  |  |  |  |  |  |
| F |  |  | / | ? | 0 | 4 | 0 | $\square$ |  |  |  |  |  |  |  |  |

(5) PC-1252, PC-1254
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P | H |  |  |  |  |  |  |  |  | - |
| 1 |  |  |  | 1 | A | Q |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  | N | 2 | B | R |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  |  |  | $\nexists$ |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  | $\wedge$ | $\sim$ |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | O |  |  |  |  |  |  |  |  |  |  |  |

(2) 300-dpi print head model

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

(6) PC-1253
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P | H |  |  |  |  |  |  |  |  | - |
| 1 |  |  |  | 1 | A | Q |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  |  |  | $\neq$ |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

(2) 300-dpi print head model

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

(7) LATIN9
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P | H |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  | 1 | A | Q |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  | N | 2 | B | R |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  |  |  | $\nexists$ |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

(2) 300-dpi print head model

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

### 11.4 OCR-B (Bit map font type: T)

(1) PC-850, PC-857, PC-866
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P |  |  | 0 |  |  |  |  |  |  | - |
| 1 |  |  |  | 1 | A | Q |  |  | 1 |  |  |  |  |  |  |  |
| 2 |  |  | N | 2 | B | R |  |  | 2 |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  | 3 |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  | 4 |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  | 5 |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  | 6 |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  | 7 |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  | 8 |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  | 9 |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  | $¥$ |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(2) 300-dpi print head model

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

The size of the numerals of codes $80 \mathrm{~h} \sim 89$ here reduced to $80 \%$.
(2) PC-8
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P |  |  | 0 |  |  |  |  |  |  |  |
| 1 |  |  |  | 1 | A | Q |  |  | 1 |  |  |  |  |  |  |  |
| 2 |  |  | V | 2 | B | R |  |  | 2 |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  | 3 |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  | 4 |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  | 5 |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  | 6 |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  | 7 |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  | 8 |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  | 9 |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  | $¥$ |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(2) 300-dpi print head model

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

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(3) PC-852
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P |  |  | 0 |  |  |  |  |  |  | - |
| 1 |  |  |  | 1 | A | Q |  |  | 1 |  |  |  |  |  |  |  |
| 2 |  |  | N | 2 | B | R |  |  | 2 |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  | 3 |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  | 4 |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  | 5 |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  | 6 |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  | 7 |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  | 8 |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  | 9 |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(2) 300-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | $\bigcirc$ | @ | P |  | p | 0 |  |  |  |  |  |  | - |
| 1 |  |  | ! | 1 | A | Q | a | q | 1 |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r | 2 |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | S | 3 |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t | 4 |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u | 5 |  |  |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | f | v | 6 |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | g | w | 7 |  |  |  |  |  |  |  |
| 8 |  |  | ( | 8 | H | X | h | x | 8 |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | I | Y | i | y | 9 |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | j | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L | $\backslash$ | 1 | 1 |  |  |  |  |  |  |  |  |
| D |  |  | - | $=$ | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 | - | 0 | - |  |  |  |  |  |  |  |  |

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(4) PC-851, PC-855, PC-1250, PC-1251, PC-1257, Arabic
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P |  |  | 0 |  |  |  |  |  |  |  |
| 1 |  |  |  | 1 | A | Q |  |  | 1 |  |  |  |  |  |  |  |
| 2 |  |  | H | 2 | B | R |  |  | 2 |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  | 3 |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  | 4 |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  | 5 |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  | 6 |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  | 7 |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  | 8 |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  | 9 |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(2) 300-dpi print head model

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

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(5) PC-1252, PC-1254, LATIN9
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P |  |  | 0 |  |  |  |  |  |  |  |
| 1 |  |  |  | 1 | A | Q |  |  | 1 |  |  |  |  |  |  |  |
| 2 |  |  | N | 2 | B | R |  |  | 2 |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  | 3 |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  | 4 |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  | 5 |  | $\nexists$ |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  | 6 |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  | 7 |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  | 8 | $\sim$ |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  | 9 |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(2) 300-dpi print head model

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

The size of the numerals of codes $80 \mathrm{~h} \sim 89 \mathrm{~h}$ are reduced to $80 \%$.
(6) PC-1253
(1) 203-dpi print head model

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  | P |  |  | 0 |  |  |  |  |  |  |  |
| 1 |  |  |  | 1 | A | Q |  |  | 1 |  |  |  |  |  |  |  |
| 2 |  |  | V | 2 | B | R |  |  | 2 |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 | C | S |  |  | 3 |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 | D | T |  |  | 4 |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 | E | U |  |  | 5 |  | $\nexists$ |  |  |  |  |  |
| 6 |  |  |  | 6 | F | V |  |  | 6 |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W |  |  | 7 |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 | H | X |  |  | 8 |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 | I | Y |  |  | 9 |  |  |  |  |  |  |  |
| A |  |  |  |  | J | Z |  |  |  |  |  |  |  |  |  |  |
| B |  |  | + |  | K |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  | $<$ | L |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  | M |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . | $>$ | N |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  | $/$ |  | 0 |  |  |  |  |  |  |  |  |  |  |  |

The size of the numerals of codes $80 \mathrm{~h} \sim 89$ h are reduced to $80 \%$.
(2) 300-dpi print head model

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

The size of the numerals of codes $80 \mathrm{~h} \sim 89$ hare reduced to $80 \%$.

### 11.5 TEC OUTLINE FONT 1 (Outline font type: A, B)

(1) PC-850, PC-866

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p | Ç | É | á | $€$ |  |  |  | - |
| 1 |  |  | ! | 1 | A | Q | a | q | ü | æ | í | $€$ |  |  | B | $\pm$ |
| 2 |  |  | " | 2 | B | R | b | r | é | $\ldots$ | ó |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | s | â | ô | ú |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t | ä | ö | ñ |  |  |  | õ |  |
| 5 |  |  | \% | 5 | E | U | e | u | à | ò | $\tilde{N}$ |  |  |  |  | $\S$ |
| 6 |  |  | \& | 6 | F | V | f | V | å | û | $\underline{\square}$ |  | ã |  | $\mu$ | $\div$ |
| 7 |  |  |  | 7 | G | W | g | w | ç | ù | $\bigcirc$ |  |  |  |  |  |
| 8 |  |  | ( | 8 | H | X | h | X | ê | $\ddot{\text { y }}$ | ¿ |  |  |  |  | 。 |
| 9 |  |  | ) | 9 | I | Y | i | y | ë | Ö |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | J | Z | è | Ü | ᄀ |  |  |  |  | - |
| B |  |  | + | ; | K | [ | k | \{ | ï | $\varnothing$ | 1/2 |  |  |  |  |  |
| C |  |  | , | < | L | 1 | 1 | 1 | ̂̂ | £ | $1 / 4$ |  |  |  |  |  |
| D |  |  | - | = | M | ] | m | \} | ì | $\varnothing$ | i | $\phi$ |  |  |  | 2 |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ | Ä |  | « | ¥ |  |  |  | $\square$ |
| F |  |  | 1 | ? | 0 |  | 0 | $\triangle$ | Å | $f$ | » |  | a |  |  |  |

The Euro code (BOH) can be changed in the parameter set command.
(2) PC-8

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P | - | p | Ç | É | á | $€$ |  |  | $\alpha$ | $\equiv$ |
| 1 |  |  | ! | 1 | A | Q | a | q | ü | æ | í | $€$ |  |  | $\beta$ | $\pm$ |
| 2 |  |  | " | 2 | B | R | b | r | é | た | ó |  |  |  | $\Gamma$ | $\geq$ |
| 3 |  |  | \# | 3 | C | S | C | s | â | ô | ú |  |  |  | $\pi$ | $\leq$ |
| 4 |  |  | \$ | 4 | D | T | d | t | ä | Ö | $\tilde{n}$ |  |  |  | $\Sigma$ | 1 |
| 5 |  |  | \% | 5 | E | U | e | u | à | ò | $\tilde{N}$ |  |  |  | $\sigma$ | J |
| 6 |  |  | \& | 6 | F | V | f | v | à | û | a |  |  |  | $\mu$ | $\div$ |
| 7 |  |  | ' | 7 | G | W | g | W | Ç | ù | $\bigcirc$ |  |  |  | $\tau$ | $\approx$ |
| 8 |  |  | $($ | 8 | H | X | h | X | ê | $\ddot{\text { y }}$ | i |  |  |  | $\Phi$ | - |
| 9 |  |  | ) | 9 | 1 | Y | i | y | ë | Ö |  |  |  |  | $\Theta$ | $\bullet$ |
| A |  |  | * | . | J | Z | j | z | è | Ü | ᄀ |  |  |  | $\Omega$ | - |
| B |  |  | + | ; | K | [ | k | \{ | ï | $\phi$ | 1/2 |  |  |  | $\delta$ | $\sqrt{ }$ |
| C |  |  | , | < | L | 1 | 1 | 1 | ̂̂ | £ | $1 / 4$ |  |  |  | $\infty$ | n |
| D |  |  | - | = | M | ] | m | \} | ì | ¥ | i |  |  |  | $\varnothing$ | 2 |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ | Ä | Pt | « |  |  |  | $\varepsilon$ | $\square$ |
| F |  |  | 1 | ? | 0 |  | 0 | $\triangle$ | Å | 1 | » |  |  |  | $\bigcirc$ |  |

The Euro code ( BOH ) can
（3）PC－852

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | ＠ | P |  | p | Ç | É | á | $€$ |  |  |  | － |
| 1 |  |  | ！ | 1 | A | Q | a | q | ü |  | í | $€$ |  |  | B |  |
| 2 |  |  | ＂ | 2 | B | R | b | r | é |  | ó |  |  |  |  |  |
| 3 |  |  | \＃ | 3 | C | S | c | S | â | ô | ú |  |  |  |  |  |
| 4 |  |  | \＄ | 4 | D | T | d | t | ä | Ö |  |  |  |  |  |  |
| 5 |  |  | \％ | 5 | E | U | e | u |  |  |  |  |  |  |  | $\S$ |
| 6 |  |  | \＆ | 6 | F | V | f | v |  |  |  |  |  |  |  | $\div$ |
| 7 |  |  | ， | 7 | G | W | g | w | Ç |  |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | h | x |  |  |  |  |  |  |  | 。 |
| 9 |  |  | ） | 9 | 1 | Y | i | y | ë | Ö |  |  |  |  |  |  |
| A |  |  | ＊ | ： | J | Z | j | z |  | Ü | ᄀ |  |  |  |  | － |
| B |  |  | ＋ | ； | K | ［ | k | \｛ |  |  |  |  |  |  |  |  |
| C |  |  | ， | ＜ | L | 1 | 1 | 1 | î |  |  |  |  |  |  |  |
| D |  |  | － | $=$ | M | ］ | m | \} |  |  |  |  |  |  |  |  |
| E |  |  |  | ＞ | N | $\wedge$ | n | $\sim$ | Ä |  | ＂ |  |  |  |  | $\square$ |
| F |  |  | 1 | ？ | 0 |  | 0 | $\triangle$ |  |  | ＂ |  | a |  |  |  |

The Euro code $(\mathrm{BOH})$ can be changed in the parameter set command．

## （4）PC－857

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | ＠ | P |  | p | Ç | É | á | € |  | $\bigcirc$ |  | － |
| 1 |  |  | $!$ | 1 | A | Q | a | q | ü | æ | í | € |  | a | B | $\pm$ |
| 2 |  |  | ＂ | 2 | B | R | b | r | é | た | ó |  |  |  |  |  |
| 3 |  |  | \＃ | 3 | C | S | c | s | â | ô | ú |  |  |  |  |  |
| 4 |  |  | \＄ | 4 | D | T | d | t | ä | Ö | $\tilde{\sim}$ |  |  |  | õ |  |
| 5 |  |  | \％ | 5 | E | U | e | u | à | ò | $\tilde{N}$ |  |  |  |  | $\S$ |
| 6 |  |  | \＆ | 6 | F | V | f | v | å | û |  |  | ã |  | $\mu$ | $\div$ |
| 7 |  |  | ＇ | 7 | G | W | g | w | ç | ù |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | h | X | ê |  | i |  |  |  |  | 。 |
| 9 |  |  | ） | 9 | 1 | Y | i | y | ë | Ö |  |  |  |  |  |  |
| A |  |  | ＊ | ： | J | Z | j | z | è | Ü | $\neg$ |  |  |  |  | － |
| B |  |  | ＋ | ； | K | ［ | k | \｛ | ï | $\varnothing$ | 1／2 |  |  |  |  |  |
| C |  |  | ， | ＜ | L | 1 | 1 | 1 | $\hat{\imath}$ | £ | $1 / 4$ |  |  |  | ì |  |
| D |  |  | － | ＝ | M | ］ | m | \} |  | $\varnothing$ | i | $\phi$ |  |  | y | 2 |
| E |  |  | ． | ＞ | N | $\wedge$ | n | $\sim$ | Ä |  | « | $¥$ |  |  |  | $\square$ |
| F |  |  | 1 | ？ | 0 |  | 0 |  | Å |  | ＂ |  | a |  |  |  |

The Euro code（BOH）can be changed in the
parameter set command．
(5) PC-851

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P | $\cdot$ | p | Ç |  |  | € |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q | ü |  |  | € |  |  |  | $\pm$ |
| 2 |  |  | " | 2 | B | R | b | r | é |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | c | s | â | ô |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t | ä | ö |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u | à |  |  |  |  |  |  | $\S$ |
| 6 |  |  | \& | 6 | F | V | $f$ | v |  | û |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | g | w | c | ù |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | h | x | ê |  |  |  |  |  |  | $\bigcirc$ |
| 9 |  |  | ) | 9 | I | Y | i | y | ë | Ö |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | j | z | è | Ü |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ | İ |  | 1/2 |  |  |  |  |  |
| C |  |  |  | < | L | 1 | 1 | 1 | ̂ | £ |  |  |  |  |  |  |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E |  |  |  | > | N | $\wedge$ | n | $\sim$ | Ä |  | « |  |  |  |  | $\square$ |
| F |  |  | 1 | ? | 0 |  | 0 | $\triangle$ |  |  | » |  |  |  |  |  |

The Euro code (BOH) can be changed in the parameter set command.
(6) PC-855

|  | 0 | 1 | 2 | 3 | 4 | 5 |  | 6 | 7 | 8 | 9 | A | B | C | D | E | F | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | $\cdot$ | p |  |  |  | € |  |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | Q | a | q |  |  |  | € |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | R | b | r |  |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | S | c | s |  |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | T | d | t |  |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | U | e | u |  |  |  |  |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | V | $f$ | v |  |  |  |  |  |  |  |  |  |
| 7 |  |  | , | 7 | G | W |  | g | w |  |  |  |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X |  | h | x |  |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | Y | i | y |  |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z |  | j | z |  |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | [ | k | \{ |  |  |  |  |  |  |  |  |  |
| C |  |  |  | < | L | 1 | I | 1 | 1 |  |  |  |  |  |  |  |  |  |
| D |  |  | - | $=$ | M | ] |  | m | \} |  |  |  |  |  |  |  |  | $\S$ |
| E |  |  |  | > | N |  | $\wedge$ | n | $\sim$ |  |  | « |  |  |  |  |  | $\square$ |
| F |  |  | 1 | ? | 0 |  |  | 0 | $\triangle$ |  |  | " |  | a |  |  |  |  |

The Euro code ( BOH ) can be changed in the parameter set command.
(7) PC-1250

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  | € |  |  | á |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  |  |  |  |  | â |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  |  |  |  |  |  | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a |  | Ä |  | ä | ô |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  | $\mu$ |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | f | V |  |  |  |  |  | Ö |  | ö |
| 7 |  |  | ' | 7 | G | W | g | w |  |  | § | . | Ç |  | Ç | $\div$ |
| 8 |  |  | $($ | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | i | y |  |  |  |  | É |  | é |  |
| A |  |  | * | . | J | Z | J | z |  |  |  |  |  |  |  | ú |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " |  |  | ë |  |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ |  |  | Ü |  | ü |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  |  |  | I |  |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  | Î |  |
| F |  |  | / | ? | 0 |  | 0 | $\triangle$ |  |  |  |  |  | B |  |  |

The Euro code (BOH) can be changed in the
parameter set command.
(8) $\mathrm{PC}-1251$

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | € |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  | $€$ |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | c | s |  |  |  |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  | $\mu$ |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | f | V |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | g | w |  |  | § | . |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | I | Y | i | y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | j | Z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " |  |  |  |  |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ |  |  |  |  |  |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | / | ? | O |  | 0 | $\triangle$ |  |  |  |  |  |  |  |  |

The Euro code (BOH) can be changed in the
parameter set command.
(9) PC-1252

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | $€$ |  |  | à |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  | - | € |  | $\tilde{N}$ | á | ñ |
| 2 |  |  | " | 2 | B | R | b | r |  |  | $\phi$ | 2 |  |  | â | ò |
| 3 |  |  | \# | 3 | C | S | C | s | $f$ |  | £ |  |  |  | ã | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a |  | Ä |  | ä | ô |
| 5 |  |  | \% | 5 | E | U | e | u |  |  | \# | $\mu$ | Å |  | å | õ |
| 6 |  |  | \& | 6 | F | V | f | v |  |  |  |  | $\ldots$ | Ö | æ | Ö |
| 7 |  |  | ' | 7 | G | W | g | w |  |  | § | . | Ç |  | Ç | $\div$ |
| 8 |  |  | $($ | 8 | H | X | h | x | $\wedge$ | $\sim$ |  |  |  | $\varnothing$ | è | $\varnothing$ |
| 9 |  |  | ) | 9 | I | Y | 1 | y |  |  |  |  |  |  | é | ù |
| A |  |  | * | . | J | Z | j | z |  |  | a |  |  |  | ê | ú |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " |  |  | ë | û |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ | 1/4 |  | Ü | ì | ü |
| D |  |  | - | = | M | ] | m | \} |  |  |  | 1/2 |  |  | i |  |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  | î |  |
| F |  |  | / | ? | 0 |  | o | $\triangle$ |  |  |  | ¿ |  | B | ï | $\ddot{\text { y }}$ |

The Euro code (BOH) can be changed in the
parameter set command.
(10) PC-1253

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | € |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  | € |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  |  | 2 |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | c | s | $f$ |  | £ |  |  |  |  |  |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  | ¥ | $\mu$ |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | f | v |  |  |  |  |  |  |  |  |
| 7 |  |  | ' | 7 | G | W | g | w |  |  | $\S$ | . |  |  |  |  |
| 8 |  |  | ( | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | i | y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | j | z |  |  | a |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | » |  |  |  |  |
| C |  |  | , | < | L | 1 | 1 | , |  |  | ᄀ |  |  |  |  |  |
| D |  |  | - | = | M | ] | m | \} |  |  |  | 1/2 |  |  |  |  |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 | $\triangle$ |  |  |  |  |  |  |  |  |

The Euro code (BOH) can be changed in the
parameter set command.
(11) PC-1254

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | $P$ |  | p |  |  |  | $€$ |  |  | à |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  | i | $€$ |  | $\tilde{N}$ | á | ñ |
| 2 |  |  | " | 2 | B | R | b | r |  |  | $\phi$ | 2 |  |  | â | ò |
| 3 |  |  | \# | 3 | C | S | c | S | $f$ |  | £ |  |  |  | ã | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a |  | Ä |  | ä | ô |
| 5 |  |  | \% | 5 | E | U | e | u |  |  | ¥ | $\mu$ | Å |  | å | õ |
| 6 |  |  | \& | 6 | F | V | f | V |  |  |  |  | $\ldots$ | Ö | æ | Ö |
| 7 |  |  | ' | 7 | G | W | g | w |  |  | § | $\cdot$ | Ç |  | Ç | $\div$ |
| 8 |  |  | $($ | 8 | H | X | h | X | $\wedge$ | $\sim$ |  |  |  | $\varnothing$ | è | $\varnothing$ |
| 9 |  |  | ) | 9 | 1 | Y | 1 | y |  |  |  |  | É |  | é | ù |
| A |  |  | * | : | J | Z | j | Z |  |  | a | $\bigcirc$ |  |  | ê | ú |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " |  |  | ë | û |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ | 1/4 |  | Ü | ì | ü |
| D |  |  | - | = | M | ] | m | \} |  |  |  | 1/2 |  |  | i |  |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  | î |  |
| F |  |  | 1 | ? | 0 |  | $\bigcirc$ | $\triangle$ |  |  |  | ¿ |  | B | İ | ÿ |

The Euro code (BOH) can be changed in the
parameter set command.
(12) PC-1257

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | $€$ |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  | € |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  | $\phi$ | 2 |  |  |  |  |
| 3 |  |  | \# | 3 | C | S | C | S |  |  | £ |  |  |  |  | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | ¢ |  | Ä |  | ä |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  | $\mu$ | Å |  | à | õ |
| 6 |  |  | \& | 6 | F | V | f | v |  |  |  |  |  | Ö |  | Ö |
| 7 |  |  | ' | 7 | G | W | g | W |  |  | $\S$ | . |  |  |  | $\div$ |
| 8 |  |  | $($ | 8 | H | X | h | x |  |  | $\varnothing$ | $\varnothing$ |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | i | y |  |  |  |  | É |  | é |  |
| A |  |  | * | : | J | Z | j | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K | [ | k | \{ |  |  | « | " |  |  |  |  |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | 7 | $1 / 4$ |  | Ü |  | ü |
| D |  |  | - | = | M | ] | m | \} |  |  |  | 1/2 |  |  |  |  |
| E |  |  | . | $>$ | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 | $\triangle$ |  |  | $\ldots$ | æ |  | B |  |  |

The Euro code (BOH) can be changed in the
parameter set command.
(13) LATIN9

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | @ | P |  | p |  |  |  | $€$ |  |  | à |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  | i | € |  | $\tilde{N}$ | á | ñ |
| 2 |  |  | " | 2 | B | R | b | r |  |  | $\phi$ | 2 |  |  | â | ò |
| 3 |  |  | \# | 3 | C | S | c | S |  |  | £ |  |  |  | ã | ó |
| 4 |  |  | \$ | 4 | D | T | d | t |  |  | a |  | Ä |  | ä | ô |
| 5 |  |  | \% | 5 | E | U | e | u |  |  | ¥ | $\mu$ | Å |  | å | õ |
| 6 |  |  | \& | 6 | F | V | f | v |  |  |  |  | F | Ö | æ | ӧ |
| 7 |  |  | ' | 7 | G | W | g | w |  |  | § | . | Ç |  | Ç | $\div$ |
| 8 |  |  | $($ | 8 | H | X | h | x |  |  |  |  |  | $\varnothing$ | è | $\varnothing$ |
| 9 |  |  | ) | 9 | 1 | Y | i | y |  |  |  |  | É |  | é | ù |
| A |  |  | * | : | J | Z | j | z |  |  | a | ㅇ |  |  | ê | ú |
| B |  |  | + | , | K | [ | k | \{ |  |  | « | " |  |  | ë | û |
| C |  |  | , | < | L | 1 | 1 | 1 |  |  | ᄀ |  |  | Ü | ì | ü |
| D |  |  | - | = | M | ] | m | \} |  |  |  |  |  |  | i |  |
| E |  |  | . | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  | 1 |  |
| F |  |  | 1 | ? | 0 |  | 0 |  |  |  |  | ¿ |  | B | Ï | $\ddot{\text { y }}$ |

The Euro code (BOH) can be changed in the
parameter set command.
(14) Arabic

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

The Euro code (BOH) can be changed in the
parameter set command.
11.6 PRICE FONT 1, 2, 3 (Outline font type: E, F, G)
(1) All types of character codes

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 | M |  |  |  |  |  |  |  |  |  |  | - |
| 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  | $\$$ | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  | $\%$ | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  | , |  |  | $¥$ |  |  |  |  |  |  |  |  |  |  |
| D |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  | . |  |  |  |  | $\sim$ |  |  |  |  |  |  |  |  |
| F |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 11．7 TRUE TYPE FONT

（1）PC－850

|  | 2 | 3 | 4 |  | 5 | 6 | 7 | 8 | 9 |  | A | B | C | D | E | F | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 | ＠ |  | P |  | p | Ç | É |  | á | ：： | ᄂ | ð | Ó |  |  |
| 1 | ！ | 1 | A |  | Q | a | q | ü | æ |  | í | \％ | $\perp$ | Đ | B |  | $\pm$ |
| 2 | ＂ | 2 | B |  | R | b | r | é | $\nrightarrow$ |  | ó | 㕩 | T | E | Ô |  |  |
| 3 | \＃ | 3 | C |  | S | c | s | â | ô |  | ú | ｜ | $\vdash$ | Ë | Ò |  | $3 / 4$ |
| 4 | \＄ | 4 | D |  | T | d | t | ä | ö |  | ñ | －1 | － | E | õ | 9 |  |
| 5 | \％ | 5 | E |  | U | e | u | à | ò |  | N | Á | ＋ | 1 | Õ | § |  |
| 6 | \＆ | 6 | F |  | V | f | v | å | û |  | a | Â | ã | Í | $\mu$ |  | $\div$ |
| 7 | ＇ | 7 | G |  | W | g | w | ¢̧ | ù |  | － | À | Ã | Î | b |  |  |
| 8 | （ | 8 | H |  | X | h | x | ê | $\ddot{\text { y }}$ |  | i | © | ᄂ | İ | P | － |  |
| 9 | ） | 9 | I |  | Y | i | y | ë | O |  | ${ }^{\text {® }}$ | \＃ | $\Gamma$ | 」 | Ú |  |  |
| A | ＊ | ： | J |  | Z | j | z | è | U |  | $\neg$ | \｜ | $\Perp$ | $\Gamma$ | U |  |  |
| B | $+$ | ； | K |  |  | k | \｛ | ï | $\varnothing$ |  | 1／2 | 7 | $\overline{7}$ |  | U | 1 |  |
| C | ， | ＜ | L |  | I | 1 | $1$ | î | £ |  | $1 / 4$ | $\lrcorner$ | F |  | ý | 3 |  |
| D | － | $=$ | M |  |  | m | \} | ì | Ø |  |  | c | $=$ | I | Ý | 2 |  |
| E | ． | $>$ | N |  |  | n | ～ | Ä | $\times$ |  |  | \＃ | 动 | Ì | － |  |  |
| F | I | ？ | 0 |  |  | 0 | $\triangle$ | Å | $f$ |  |  | 7 |  | － |  |  |  |

（2）PC－8

|  | 2 | 3 | 4 | 5 | 5 | 6 | 7 |  | 8 | 9 | A | B | C | D | E | F | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 | ＠ | P | P |  | p |  | Ç | É | á | ：： | $\llcorner$ | $\Perp$ | $\alpha$ | $\equiv$ |  |
| 1 | ！ | 1 | A | Q | Q | a | q |  | ü | æ | í | \％ | $\perp$ | 〒 | B | $\pm$ |  |
| 2 | ＂ | 2 | B | R | R | b | r |  | é | $\nVdash$ | ó | 平 | T | $\pi$ | 「 | $\geq$ | $\geq$ |
| 3 | \＃ | 3 | C |  | S | c | s |  | â | ô | ú | \| | $\vdash$ | แ | $\pi$ | $\leq$ | $\leq$ |
| 4 | \＄ | 4 | D |  | T | d | t |  | ä | ö | ก | －1 | － | 匕 | L | 1 |  |
| 5 | \％ | 5 | E |  | U | e | u |  |  | ò | N | $=$ | ＋ | F | $\sigma$ | J | ， |
| 6 | \＆ | 6 | F |  | V | f | v |  | à | û | a | － | 1 | $\pi$ | $\mu$ | $\div$ |  |
| 7 | ＇ | 7 | G |  | W | g | w |  | ¢ | ù | 0 | $\pi$ | I－ | \＃ | $\tau$ |  |  |
| 8 | （ | 8 | H |  | X | h | x |  | ê | ÿ | i | 7 | L | $\neq$ | $\Phi$ |  |  |
| 9 | ） | 9 | I |  | Y | i | y |  |  | Ö | $\ulcorner$ | 引 | 「 | 」 | $\theta$ |  |  |
| A | ＊ | ： | J |  | Z | j | z |  |  | Ü | $\neg$ | ，｜｜ | $\xrightarrow{\circ}$ | $\ulcorner$ | $\Omega$ |  |  |
| B | ＋ | ； | K | ［ |  | k | \｛ |  |  | c | 1／2 | 7 | $\overline{7}$ | $\square$ | $\delta$ | $\checkmark$ | $\checkmark$ |
| C | ， | ＜ | L | \} |  | 1 | 1 |  |  | £ | 1／4 | $\lrcorner$ | 析 | － | $\infty$ | n | ， |
| D | － | $=$ | M | M |  | m | \} |  |  | $\pm$ | i | $\downarrow$ | $=$ | － | $\phi$ | ${ }^{2}$ |  |
| E | ． | $>$ | N |  |  | n |  |  | Ä | Pt | « | $\pm$ | H |  | $\epsilon$ | － |  |
| F | 1 | ？ | O |  |  | o |  |  | Å | $f$ | ＂ | 7 | $\perp$ | $\square$ | $\cap$ |  |  |

（3）PC－852

|  | 2 | 3 | 4 |  | 5 | 6 | 7 | 7 | 8 | 9 |  | A | B | C | D | E |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 | ＠ | （1） | P |  | p | p | Ç | É | á |  | ：： |  | d | Ó |  |  |
| 1 | ！ | 1 | A |  | Q | a | q | q | ü | Ĺ | í |  | 数 | $\perp$ | Đ | B |  |  |
| 2 | ＂ | 2 | B |  | R | b | r |  | é | 1 |  |  | 听 | ד | Ď | Ô |  |  |
| 3 | \＃ | 3 | C |  | S | c | s | s | â | ô |  | ú |  |  | Ë | N |  |  |
| 4 | \＄ | 4 | D |  | T | d | t |  | ä | ö |  | A | － | － | $\mathrm{d}^{\prime}$ | ń |  |  |
| 5 | \％ | 5 | E |  | U | e | u |  | ů | L | a |  | Á | ＋ | N | ñ | § |  |
| 6 | \＆ | 6 | F |  | V | f | v | v | ć | 1 |  | Ž | Â | Ă | Í | Š |  |  |
| 7 |  | 7 | G |  | W | g | w |  | ¢ | S |  |  | Ě | ă | İ | š |  |  |
| 8 | （ | 8 | H |  | X | h | x |  | 1 | s |  | E | S | ㄴ | ě | Ŕ |  |  |
| 9 | ） | 9 | I |  | Y | i | y |  | ë | Ö |  |  | \＃ | $\Gamma$ | － | Ú |  |  |
| A | ＊ | ： | J |  | Z | j | z |  | Ő | U |  |  | \｜ | 」 | $\ulcorner$ | ŕ |  |  |
| B | ＋ | ； | K |  | ［ | k | \｛ |  | ó | T |  |  | ， | $\overline{7}$ | － | Ü | ũ |  |
| C |  | ＜ | L |  | 1 | 1 |  |  | î | ${ }^{\text {t }}$ |  | Č | $\lrcorner$ | If |  | 今 | Ř |  |
| D | － | $=$ | M | M |  | m | \} |  | Ź | Ł |  |  | Ż | $=$ | T | Y | ř |  |
| E |  | $>$ | N |  |  | n |  |  | Ä | $\times$ |  |  | ż | 示 | U® | ！ | － |  |
| F | 1 | ？ | 0 |  |  | o |  | $\Delta$ | Ć | ć |  |  | 7 | a | － |  |  |  |

（4）PC－857

|  | 2 | 3 | 4 | 5 |  | 6 | 7 | 8 | 9 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 | ＠ | P | P |  | p | Ç | É | É | á | ：： | $\llcorner$ | － | Ó |  |
| 1 | ！ | 1 | A | Q | Q | a | q | ü | æ | æ | í | \％ | － | a | B | $\pm$ |
| 2 | ＂ | 2 | B | R |  | b | r | é |  | モ | ó | 曲 | ד | Ê | Ô |  |
| 3 | \＃ | 3 | C | S | S | c | s | â | ô |  | ú | 1 | 1 | Ë | Ò | 3／4 |
| 4 | \＄ | 4 | D | T | T | d | t | ä | ö |  | ñ | － | － | È | õ | 1 |
| 5 | \％ | 5 | E | U | U | e | u | à | ò |  | N | Á | ＋ |  | Õ | § |
| 6 | \＆ | 6 | F | V |  | f | v | å | û |  | Ğ | A | ã | Í | $\mu$ | $\div$ |
| 7 | ＇ | 7 | G | W | W | g | w | ¢ | ù |  | g | À | Ã | Î |  |  |
| 8 | （ | 8 | H | X |  | h | x | ê | I |  | $i$ | － | ᄂ | Ï | $\times$ | － |
| 9 | ） | 9 | I | Y |  | i | y | ë | Ö |  | （8） | H | 「 | $\lrcorner$ | Ú |  |
| A | ＊ | ： | J | Z |  | j | z | è |  |  | $\neg$ | ｜｜ | 」 |  | U |  |
| B | ＋ | ； | K | ［ |  | k | \｛ | i | $\varnothing$ |  | 1／2 | ㄱ | 7 |  | Ù | ${ }^{1}$ |
| C | ， | $<$ | L | 1 |  | 1 | $1$ | î |  |  | 1／4 | 」 | If | － | ì | 3 |
| D | － | $=$ | M | ］ |  | m | \} | 1 |  |  | i | c | $=$ | 1 | ÿ | 2 |
| E | ． | ＞ | N |  |  | n | － | Ä | S |  | ＂ | $\pm$ | 示 | Ì | － | － |
| F | ／ | ？ | O |  |  | o | $\bigcirc$ | Å | § |  | ＂ | 7 | a | － |  |  |

（5）PC－851

|  | 2 | 3 | 4 | 4 | 5 | 6 |  | 7 | 8 | 9 |  | A | B | C | D | E | F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 |  | ＠ | P |  |  | p | Ç | ＇I | i | i | ：： | $\llcorner$ | T | $\zeta$ | － |  |
| 1 | ！ | 1 |  | A | Q | a |  | q | ü |  | i |  | 荈 | ค | Y | $\eta$ | $\pm$ | $\pm$ |
| 2 | ＂ | 2 |  | B | R | b |  | r | é | ＇O | Ó | ó | 罒 | ד | Ф | $\theta$ | ט |  |
| 3 | \＃ | 3 |  | C | S | c |  | s | â | ô | ט́ |  | 1 | $\vdash$ | X | 1 | $\varphi$ |  |
| 4 | \＄ | 4 |  | D | T | d |  | t | ä | Ö |  | A | － | － | $\Psi$ | K | $\chi$ |  |
| 5 | \％ | 5 |  | E | U | e |  | u | à | Y | Y B | B | K | ＋ | $\Omega$ | $\lambda$ | § |  |
| 6 | \＆ | 6 | F | F | V | f |  | v | ＇A | û | $\Gamma$ | $\Gamma$ | $\Lambda$ | П | $\alpha$ | $\mu$ | $\psi$ |  |
| 7 |  | 7 |  | G | W | g |  | w | ¢ | ù | $\Delta$ | $\Delta$ | M | P | $\beta$ | $v$ |  |  |
| 8 | （ | 8 |  | H | X | h |  | x | ê | $\Omega$ | $\Omega$ E | E | N | ᄂ | $\gamma$ | $\xi$ |  |  |
| 9 | ） | 9 | I |  | Y | i |  | y | ë | Ö | Z | Z | \＃ | 「 | 」 | o |  |  |
| A | ＊ | ： | J | J Z | Z | j |  | z | è | Ü | H | H | ｜｜ | 」 | $\Gamma$ | $\pi$ | $\omega$ |  |
| B | ＋ | ； |  | K | ［ | k |  | $\{$ | i | $\dot{\alpha}$ | 1／2 | 1／2 | ㄱ | 7 |  | $\rho$ | ט̈ |  |
| C | ， | $<$ | L | L | 1 | 1 |  |  | î | £ | © | $\Theta$ | 」 | $1 /$ | ， | $\sigma$ | ü |  |
| D | － | ＝ |  | M | ］ | m |  | \} | E | $\dot{\varepsilon}$ | I |  | $\Xi$ | $=$ | $\delta$ | $\bigcirc$ | $\omega$ |  |
| E | ． | $>$ |  | N |  | n |  |  | Ä | ท | « |  | 0 | 示 | $\varepsilon$ | $\tau$ | － |  |
| F | ／ | ？ |  | 0 |  | 0 |  |  | ＇H |  |  |  | 7 | $\Sigma$ | － |  |  |  |

（6）PC－855

|  | 2 | 3 |  | 4 | 5 |  | 6 | 7 | 8 |  | 9 | A | B | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 |  | ＠ | P |  |  | p | 万 |  | љ | a | ：： | ： |  | л | я | － |
| 1 | ！ | 1 |  | A | Q |  | a | q |  | 万 | Љ | A | \％ | 亥 | － | Л | p | ы |
| 2 | ＂ | 2 |  | B | R |  | b | r | í |  | 也 | $\sigma$ | 四 | \＃ | T | м | P | b |
| 3 | \＃ | 3 |  | C | S |  | c | s |  | 「́ | Њ | Б |  |  | $\vdash$ | M | c | 3 |
| 4 | \＄ | 4 |  | D | T |  | d | t | ë |  | ћ | ц | － | $\dagger$ | － | н | C | 3 |
| 5 | \％ | 5 |  | E | U |  | e | u |  | Ë | 万 | Ц | ¢ |  | ＋ | H | T | ш |
| 6 | \＆ | 6 |  | F | V |  | f | v |  |  | ќ | д | X | X | к | o | T | Ш |
| 7 |  | 7 |  | G | W |  | g | w |  | € | К | Д | и |  | К | O | y | э |
| 8 | （ | 8 |  | H | X |  | ， | x | s |  | y̆ | e | И | I | ᄂ | п | Y | Э |
| 9 | ） | 9 |  | I | Y |  | i | y |  | S | y̆ | E | $\dagger$ |  | 「 | 」 | ж | щ |
| A | ＊ |  |  | J | Z |  | j | z |  |  | 凹 | 中 |  |  | $\xrightarrow{\text { L }}$ | $\ulcorner$ | Ж | щ |
| B | ＋ |  |  | K | I |  | k | \｛ |  |  | Џ | $\Phi$ |  |  | $\cdots$ |  | B | 4 |
| C | ， |  | $<$ | L | \} |  | 1 | 1 |  |  | ю | $\Gamma$ | $\lrcorner$ |  | If | － | B | 4 |
| D | － |  | $=$ | M | ］ |  | m | \} |  |  | Ю | $\Gamma$ | й |  | $=$ | $\Pi$ | b | § |
| E |  |  | ＞ | N |  |  |  | $\sim$ | j |  | b | ＂ | Й |  | 示 | я | b | － |
| F | ／ | ？ |  | O |  |  | 0 | $\Delta$ |  |  | b | ＂ |  |  | a |  | № |  |

(7) PC-1250

|  | 2 | 3 | 4 | 5 |  | 6 | 7 |  | 8 | 9 | A |  | B | C | D | E |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 | @ | P | P |  | p |  | € |  |  |  | - | Ŕ | Đ | ŕ |  | d |
| 1 | ! | 1 | A | Q | Q | a | q |  |  |  |  |  | $\pm$ | Á | Ń | á |  | ń |
| 2 | " | 2 | B |  | R | b | r |  |  |  |  |  |  | Â | Ň | â |  | ñ |
| 3 | \# | 3 | C | S | S | c | s |  |  | " | Ł | 1 |  | Ă | Ó | ă |  | ó |
| 4 | \$ | 4 | D | T | T | d | t |  | " | " | a |  |  | Ä | Ô | ä |  | ô |
| 5 | \% | 5 | E | U | U | e | u |  | ... | - | A |  | $\mu$ | Ĺ | Ő | í |  |  |
| 6 | \& | 6 | F |  | V | f | v |  | $\dagger$ | - | \| | ! | 1 | Ć | Ö | ć | ö | ӧ |
| 7 |  | 7 | G |  | W | g | w |  | $\ddagger$ | - | § |  |  | Ç | $\times$ | ¢̧ |  | $\div$ |
| 8 | ( | 8 | H |  | X | h | x |  |  |  | - |  |  | Č | Ř | č |  | r |
| 9 | ) | 9 | I | Y | Y | i | y |  | \%o | ${ }^{\text {TM }}$ | $\bullet$ | a | ą | É | U® | é |  | ư |
| A | * | : | J |  | Z | j | Z |  | S | š | Ş | § | § | E | Ú | ¢ |  | u |
| B | + | ; | K | [ |  | k | \{ |  |  | , | " |  | " | Ë | Ũ | ë |  | ú |
| C | , | < | L | 1 |  | 1 | \| |  | S | ś | $\neg$ |  | L | Ě | Ü | ¢ |  | u |
| D | - | $=$ | M | 1 |  | m | ) |  | Ť | ${ }^{\prime \prime}$ | - |  |  | Í | Ý | í | ý | y |
| E |  | > | N |  |  | n | $\sim$ |  | Ž | ž | ${ }^{\text {B }}$ | 1 |  | Î | T | î |  |  |
| F | 1 | ? | O |  |  | o | \% |  | Ź | ź | Ż |  | ż | Ď | B | $\mathrm{d}^{\prime}$ |  |  |

(8) PC-1251

|  | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  | 9 | A | B | C | D | E | F |
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| 0 |  | 0 | @ | P |  | p |  | 5 | 万 |  | - | A | P | a | p |
| 1 | ! | 1 | A | Q | a | q | İ |  | - | y̆ | $\pm$ | Б | C | $\sigma$ | c |
| 2 | " | 2 | B | R | b | r |  |  |  | y̆ | I | B | T | в | T |
| 3 | \# | 3 | C | S | c | s |  |  | " | J | i | $\Gamma$ | Y | г | y |
| 4 | \$ | 4 | D | T | d | t |  |  | " | a | ז | Д | $\Phi$ | д | ф |
| 5 | \% | 5 | E | U | e | u |  |  | - | $\Gamma$ | $\mu$ | E | X | e | x |
| 6 | \& | 6 | F | V | f | v |  |  | - | 1 | 1 | Ж | Ц | ж | ц |
| 7 | , | 7 | G | W | g | w | $\ddagger$ |  | - | § | . | 3 | Ч | 3 | ч |
| 8 | ( | 8 | H | X | h | $x$ |  |  |  | Ë | ë | И | Ш | и | ш |
| 9 | ) | 9 | I | Y | i | y |  | \% | ${ }^{\text {m }}$ | $\bullet$ | No | Й | щ | й | щ |
| A | * | : | J | Z | j | z |  | Љ | љ | $\epsilon$ | є | К | b | к | b |
| B | + | ; | K | [ | k | \{ |  |  | , | " | " | Л | Ы | л | ы |
| C | , | < | L | 1 | 1 | 1 |  | Њ | њ | $\neg$ | j | M | b | M | b |
| D | - | $=$ | M | ] | m | \} |  | К | ќ | - | S | H | $\ni$ | H | כ |
| E | . | > | N | * | n | - |  | h | ћ | ${ }^{(1)}$ | s | 0 | Ю | o | ю |
| F | 1 | ? | O |  | 0 | \% | 穴 | $\amalg$ | џ | İ | i | $\Pi$ | я | $\Pi$ | я |

(9) PC-1252

|  | 2 | 3 | 4 |  | 56 |  |  |  |  | A | A B | B C | C |  | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 | @ | (1) P | P |  | p | € |  |  |  | À | À | Đ | à | ¢ |
| 1 | ! | 1 | A | Q | Q | a | q |  |  | ; | $i \pm$ | $\pm$ Á | Á | N | á | ก |
| 2 | " | 2 | B |  | R b | b | r |  |  |  | $c^{2}$ | À | Â | ò | â | ò |
| 3 | \# | 3 | C | S | S | c | s | $f$ |  | ، £ | £ ${ }^{3}$ | ${ }^{3}$ À | Ã | O | ã | ó |
| 4 | \$ | 4 | D |  |  | d | t | " | " | व | a |  | Ä | Ô | ä | ô |
| 5 | \% | 5 |  |  | U | e | u | .. | - | - ${ }^{\text {l }}$ | y $\mu$ | $\mu$ Å | Å | õ | å | o |
| 6 | \& | 6 | F | V | V f | f | v | $\dagger$ | - | 1 | 1 1 | 9 $A$ | Æ | Ö | x | ö |
| 7 |  | 7 |  | G W | W g | g | w | $\ddagger$ | - | - § | § |  | Ç | $\times$ | ¢ |  |
| 8 |  | 8 | H | H | X h | h | x |  |  |  |  |  | E | $\varnothing$ | è | $\varnothing$ |
| 9 | ) | 9 | I |  | Y i |  | y |  | \%os ${ }^{\text {mo }}$ | " 0 | - | É | É | Ù | é | ù |
| A | * |  | J |  |  |  |  | š | š | ${ }^{\text {a }}$ | a ${ }^{\circ}$ | E |  | Ú | ê | ú |
| B | + |  | K | K |  | k | \{ |  |  | " | " | " E | E | U | ë | û |
| C |  | < |  |  |  |  |  |  | E | ¢ | $\checkmark 1 / 4$ | 1/4 |  | Ü | ì | ü |
| D |  | $=$ |  |  |  | m | \} |  |  |  | 1/2 | 1/2 |  | Ý | í | y |
| E |  | $>$ | > |  |  |  |  | ž | ž | \% | - 3 3/4 | $3 / 4 \mathrm{I}$ |  | P |  | p |
|  |  | ? |  |  |  |  | * |  | Y | Y ${ }^{-}$ | i | - I | I | B |  |  |

(10) PC-1253

|  | 2 | 3 | 4 |  | 56 | 6 | 7 | 8 | 9 | A | B |  |  | E |  | F |
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| 0 |  | 0 | @ | P | P | - p | p | € |  |  | - | i | п | п |  | $\pi$ |
| 1 | ! | 1 | A |  | Q a | a | q |  |  | * | $\pm$ | A | P | $\alpha$ |  | $\rho$ |
| 2 | " | 2 | B |  |  | b | r |  |  | A | ${ }^{2}$ | B |  | $\beta$ |  | s |
| 3 | \# | 3 | C |  | S | c | s | $f$ | " | £ | ${ }^{3}$ | $\Gamma$ | $\Sigma$ | $\Sigma$ |  | $\sigma$ |
| 4 | \$ | 4 | D |  | T d | d |  | " | " | a |  |  |  | T $\delta$ |  | $\tau$ |
| 5 | \% | 5 | E |  |  | e | u |  | - | ¥ | $\mu$ | E |  | Y |  | 0 |
| 6 | \& | 6 | F |  | V f | f | v | $\dagger$ | - | 1 | ¢ | Z | Ф | ¢ |  | $\varphi$ |
| 7 |  | 7 | G |  | W g | g | w | $\ddagger$ | - | § | - |  |  | X |  | $\chi$ |
| 8 | ( | 8 | H |  | X h | h | x |  |  | . |  | - | $\Psi$ | $\Psi \theta$ |  | $\psi$ |
| 9 | ) | 9 | I |  | Y | i | y |  | ${ }^{\text {¹0 }}$ | - |  | I | $\Omega$ | 22 |  | $\omega$ |
| A | * |  | J |  |  |  |  |  |  |  | I |  |  | к |  |  |
| B | + |  | K |  |  | k | \{ |  |  | « | " | $\Lambda$ | Ÿ | $\dot{y} \lambda$ |  | ü |
| C |  | < | L |  |  |  |  |  |  |  | O |  |  | ${ }^{\mu}$ |  |  |
| D |  | $=$ | M |  |  | m $\}$ |  |  |  |  | 1/2 |  | غ | $v$ |  |  |
| E |  | > | N |  |  |  | $\sim$ |  |  |  |  |  |  | ¢ $\xi$ |  | $\dot{\text { ¢ }}$ |
|  | 1 |  | 0 |  |  | o | 令 |  |  |  | $\bigcirc$ | O |  |  |  |  |

(11) PC-1254

|  | 2 | 3 | 4 | 5 | 56 | 6 | 7 | 8 | 9 | A |  | B C | C | D | E | F |
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| 0 |  | 0 | @ | P | P | - | p | $\epsilon$ |  |  |  | À | À | Ğ | à | ğ |
| 1 | ! | 1 | A | A | Q a | a | q |  |  | i |  | $\pm$ Á | Á | N | á | ñ |
| 2 | " | 2 | B | R | R b | b | r | , | , | c |  | Â | Â | ò | â | ò |
| 3 | \# | 3 | C | S | S | c | s | $f$ | " | £ |  | Ã | Ã | Ó | ã | ó |
| 4 | \$ | 4 | D | T | T d | d | t | " | " | a |  | Ä | Ä | Ô | à | o |
| 5 | \% | 5 | E | U | U e | e | u | ... | - | ¥ |  | $\mu$ Å | Å | õ | à | õ |
| 6 | \& | 6 | F | v | V f | f | v | $\dagger$ | - | 1 |  | 1 ¢ | 无 | Ö | æ | ӧ |
| 7 |  | 7 |  | G w | W g | g | w | $\ddagger$ | - | § |  |  | Ç $\times$ | $\times$ | ¢ | $\div$ |
| 8 | ( | 8 |  |  | X h | h | $x$ |  |  |  |  |  | Ė $\varnothing$ | $\varnothing$ | è | $\varnothing$ |
| 9 | ) | 9 | I | Y | Y i | i | y | \% | ${ }^{\text {mox }}$ | - |  | E | É Ù | U | é | ù |
| A | * |  | J |  | Z |  | z | Š | š | ${ }^{\text {a }}$ |  | E | Ê Ú | U | ê | ú |
| B | + | ; |  |  |  | k |  | , | , | * |  |  | Ë |  | è | û |
| C |  | < | < L | L | 1 | 1 |  |  | ๙ | $\neg$ | 1/4 | 1/4 | İ U̇ | Ü | i | ü |
| D |  | $=$ | $=\mathrm{M}$ | M 1 |  | m |  |  |  |  |  | 1/2 1 Í | Í i | 1 í | í |  |
| E |  | > | > | v | - $n$ | n | $\sim$ |  |  | ${ }^{8}$ | 3/4 | 3/4 |  | s | î |  |
| F |  | ? |  |  |  |  |  |  | $\ddot{Y}$ |  |  |  |  |  |  |  |

(12) PC-1257

|  | 2 | 3 | 4 | 5 | 56 | 6 | 7 | 8 | 8 | 9 A | A | B | C | D | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 |  |  | P |  | p | € | E |  |  | - | A |  | ś | a | š |
| 1 | ! | 1 | A | A | Q | a | q |  |  |  |  |  | I |  | Ń | i | ń |
| 2 | " | 2 | B |  | R b | b | r | , |  |  | ${ }^{\text {c }}{ }^{2}$ | 2 | A |  | N | à | п |
| 3 | \# | 3 | C | C | c | c | s |  |  |  | £ ${ }^{3}$ | ${ }^{3}$ | ć |  | Ó | ć | ó |
| 4 | \$ | 4 | D | , | T d | d | t | " | , " | a | व |  | Ä |  | ō | ä | $\bar{\square}$ |
| 5 | \% | 5 | E |  | U | e | u |  |  | - |  | $\mu$ | Å | O | O | à | o |
| 6 | \& | 6 | F | V | V f | $f$ | $\checkmark$ | $\dagger$ | - |  | 19 | 1 | E |  | ö | e | ӧ |
| 7 |  | 7 | G | G | W | g | w | $\ddagger$ | - | - | § |  | E |  | $\times$ è | è | $\div$ |
| 8 | ( | 8 | H |  | X | h | x |  |  |  | $\varnothing$ 。 | - | Č |  |  | č | 4 |
| 9 | ) | 9 | I |  | Y i | i | y |  | \%o ${ }^{\text {mt }}$ | ${ }^{\text {m }}$ | $0{ }^{1}$ |  | É | $\pm$ | é | é | 1 |
| A | * |  | J |  | Z j | j | z |  |  |  | R ${ }_{\text {r }}$ | r | ź |  |  | ź | s |
| B | + | ; | K |  | [ k | k | \{ |  |  |  | " " | " | E | Ū |  | è | ù |
| C | , | < | < L |  |  | 1 | \| |  |  |  | $\checkmark 11$ | $1 / 4$ | G | Ü |  |  | ü |
| D | - | $=$ | M |  |  | m | \} |  |  |  |  |  | $\underline{K}$ |  |  | k | z̀ |
| E |  | > | N |  |  | n | $\sim$ |  |  |  | ${ }^{8} 31 /$ | 3/4 |  | ž | ż |  | ż |
|  |  | ? |  |  |  |  | \% |  |  |  |  |  | $\underline{4}$ |  |  |  |  |

(13) LATIN9

|  | 2 | 3 | 4 | 45 | 5 | 6 | 7 |  |  |  |  |  | C D | D | E | F |
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| 0 |  | 0 | a | @ | P |  | p |  |  |  | - |  | À | Ð | à | б |
| 1 | ! | 1 | A | A Q | Q | a | q |  |  |  | $\pm$ | = Á | Á Ñ | N | á | ñ |
| 2 | " | 2 | B | B R | R | b | r |  |  | ¢ | ${ }^{2}$ |  | Â Ò | Ò | â | ò |
| 3 | \# | 3 | C | C S | S | c | s |  |  | £ | ${ }^{3}$ |  | Ã Ó | O | ã | ó |
| 4 | \$ | 4 | D | T | T | d | t |  |  | € | Ż |  | Ä Ô | Ô | ä | ô |
| 5 | \% | 5 | E | E U | U | - | u |  |  | ¥ | $\mu$ |  | A Õ | Õ | a | õ |
| 6 | \& | 6 | F | V | V | $f$ | v |  |  | Š | 1 |  | 无 Ö | Ö | æ | ö |
| 7 | ' | 7 |  | G W | W | g | w |  |  | § |  |  | C $\times$ | $\times$ | ç | $\div$ |
| 8 | ( | 8 | 8 H | H | X | h | x |  |  | š | ž | È | È $\varnothing$ | ø | è | $\varnothing$ |
| 9 | ) | 9 | I | I | Y | i | y |  |  | © |  |  | ù | Ù | é | ù |
| A | * |  |  | J | Z | j | z |  |  | a |  |  | Ú | Ú | ê | ú |
| B | + |  | K |  |  | k | \{ |  |  |  | " |  | Ë U | Û | ë | û |
| C | , | < | < | L |  | 1 | 1 |  |  |  | ¢ |  | U | U | i | ü |
| D | - | $=$ | M | M | ] | m | \} |  |  |  | $\propto$ | I | Y | Y | í | ý |
| E |  | $>$ | N | N |  | n | $\sim$ |  |  | ${ }^{\text {® }}$ | Y | Y Î | B | P | î | b |
| F | 1 |  |  |  |  |  | \% |  |  |  |  |  | I B | B | i | y |

(14) Arabic

|  | 2 | 3 | 4 |  | 56 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
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| 1 | i | - | $=$ |  | - 1 | , | $\varepsilon$ |  |  | 」 | s | $y$ | = | * |  |
| 2 | ' | . | , |  | $\star$, | , | $\varepsilon$ |  |  | $J$ | - | $x$ | * | " |  |
| 3 |  | , | : |  | $\rightarrow-$ | - | - |  |  | - | $\therefore$ | y | = |  |  |
| 4 |  | - | - |  |  | ; | * |  |  |  | ¢ | \& | : |  |  |
| 5 | ! | , |  |  |  | $\sim$ | $\varepsilon$ |  |  | - | 0 | y | - |  |  |
| 6 | " | r | 1 |  | $\sim$ | $\cdots$ | $\dot{\varepsilon}$ |  |  |  | 1 | x | - | \% |  |
| 7 | " | r |  |  | ~ | ~ | ; |  |  |  | 2 | $y$ |  | - |  |
| 8 | " | : | i |  |  |  |  |  |  |  | 3 | * |  |  |  |
| 9 | \% | - | i |  | $\sim$ | $\infty$ | $\checkmark$ |  |  |  | 4 |  |  |  |  |
| A | $\times$ | , | i |  |  | $\sim 3$ |  |  |  |  | 5 |  |  |  |  |
| B | - | $v$ |  |  |  | $\rightarrow$ | ; |  |  |  | 6 |  |  |  |  |
| C | ( | $\wedge$ | ! |  |  | - | - |  |  |  | 7 |  |  |  |  |
| D | , | 9 | - |  |  | b | $s$ |  |  |  | 8 | * |  |  |  |
| E |  | : | - |  |  | b | ك |  |  |  | 9 |  |  |  |  |
| F | + | : | - |  | 1 s | s |  |  |  |  | 's |  |  |  |  |

（15）PC－866

|  | 2 | 3 | 4 | 45 | 5 | 6 | 7 |  |  |  |  |  | C D | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 | a | a | P |  | p | A |  |  | a |  | L \＃ | $\Perp$ | p | Ë |
| 1 | ！ | 1 | A | Q | Q | a | q | Б | C | C б | б | 㖣 | ${ }^{\perp}$ 〒 | ¢ | c | ë |
| 2 | ＂ | 2 | B | B R | R | b | r | B |  |  |  |  | T $\pi$ | $\pi$ | т | $\epsilon$ |
| 3 | \＃ | 3 | C | C | S | － | s | $\Gamma$ | y | ז | ז |  | － | L | y | $\epsilon$ |
| 4 | \＄ | 4 | D | T | T | d | t | Д |  |  | － 1 | － | －E | E ${ }_{\text {d }}$ | ф | Ï |
| 5 | \％ | 5 | E | E U | U | e | u | E | X |  | e $=$ | \＃+ | ＋F | F | x | i |
| 6 | \＆ | 6 | F | V | V | $f$ | v | Ж |  |  | ж 1 | － 1 | F $\pi$ | $\pi$ | ц | y̆ |
| 7 | ＇ | 7 |  | G W | W | g | w | 3 |  |  |  | ${ }_{7}$ | HH | \＃ | ч | y̆ |
| 8 | （ | 8 |  | H | X | h | x | И |  |  |  | 7 Ц | L $\ddagger$ | \＃ | ш |  |
| 9 | ） | 9 |  | I | Y | i | y | Й |  |  |  | 和 | 匹 $\lrcorner$ | $\lrcorner$ | щ |  |
| A | ＊ |  |  | J | Z | j | z | К | b | K | к | \｜ | $\Perp$ | $\ulcorner$ ¢ | ъ |  |
| B | ＋ |  |  | K |  | k | \｛ |  |  |  |  |  | T |  | ы | $\checkmark$ |
| C | ， | ＜ |  | L |  | 1 |  | M |  |  |  | 」 15 | 15 | $\square$ |  | № |
| D | － |  |  | M |  | m | \} | H |  |  |  | $=$ | ＝【 | 1 | ${ }^{\text {¢ }}$ |  |
| E |  | ＞ |  |  |  | n | $\sim$ | O |  |  |  | $\pm$ 」 | \＃ | \ю | ю | － |
| F |  |  |  |  |  | o |  |  |  |  |  |  | $\pm \square$ |  |  |  |

## 11．8 GB18030（2－byte Code）

80XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ | $F$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

81XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

83XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## 85XX

|  | 0 |  |  |  | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 勿 | 智 |  | 睝 | 敂比 | 頃 |  | 固 | 国 |  | 园勿 | 汤 | 国号 | 匡 | 薔臣 | 區 |  |  |
| 50 | 國 | 表 |  | 淮 | 理 | 區 | 㖨 | 緆 | 原 |  | 國 | 医 | ᄃ | ᄃ | 圄号 | 匽 | 區 | 7 |
| 60 | t | 卆 |  | 茾 | 册习 | H | St | 協 | 単 |  | 旪策 | 荘 | 这 | 図 | 咼 | T | 印 | ז |
| 70 | 故 | 部 |  | 却卻 | 卻而 |  | 5 | 郘 |  |  | 倝 | F | 尻 | 干 |  |  | 厏 |  |
| 80 | 龙 | 成 |  | 缶国 | 表至 | 至 | 厡 | 屖 | 䡒 |  | 听 | 苼庣 | 园 | 則 | 析 | 粎 | 厧 | 星 |
| 90 | 願 | 暻 |  | 䎟㷴 | 㻺厝 | 顽 | 度限 | 㺃 | 笠 |  | 星物 | 國厷 | 厷 4 | 46 | 去 | 厺 |  | 厽 |
| A0 | 去 | 重 |  | 参垒 | 参参 | 祘 | 㧞云 | 䂭 | 収 |  | 麦友 | ， | 真 | 考 | 経叚 | 既 | 宔 | 坂 |
| B0 | 㲀 | 部 |  | 襄另 | 另省 | 叴吅 | 叺 | G | 听 |  | 叶宫 | 宫 | 呵 | 吇咐 | 时 |  |  |  |
| C0 | 呼 | 吜 |  | 吅吤 | 吤吥 | 吥叫 |  | 吰 | 吅 |  | 呐咉 | 块 | 㕰 | 姓 | 唃 | 呁 |  | 家 |
| D0 |  | 的 |  | 呉吅 | 呌呍 | 呍吸 | 吹咞 | 呏 |  |  | 吹咜 | 咜呞 | 呞咬 | 呟 | 呠叫 | 㢄 |  | ， |
| E0 | 氐 | 呩 |  | 呪呫 | 呫 | 四口 | 咀侶 | 呮 | 呯 |  | 皆吻 | 呴吹 | 呋揓 | 呺 | 咀呿 | 呿 |  | 吔 |
| F0 |  | 跇 |  | 嗂咉 | 咉味 | 味咬 |  |  |  |  | 近唯 | 咘呵 |  |  |  |  |  |  |

87XX

|  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 嘆 |  | 嗺 | 催唯 | 教㗢 | 㜢 | 嘐 | 㢈㖇 | 啫 | 哩 | 嘔 | 呵 | 唄 | 嘗 | 嘍 |  |  |
| 50 | 朝 |  | 喑 | 榬唃 | 新唯 | 徒 | 鲕 | 㖀嬂 | 荤 | 嘪 | 哆 | 柺 | 犍 | 嘰 | 噴 | 貴 | 唓 |
| 60 | 嘯 |  | 翌 | 唔嚾 | 梅 | 吅 | 翼嗃 | 㖟鮚 | 噂吅 | 䁘 | 㗎 |  | 喈 | 啴 | S | ， |  |
| 70 | 敨 | 啺 | 罊㗊 | 㗊嘱 | 湟 | 当唛 | 䛧 |  | 榢 | 膞 | 噛 |  | 噞 | 噟 | 喡 | 赵 |  |
| 80 | 蚼 | 噮 |  | 臓唓 | 苞唯 | 教 | 噮吅 | 噯啊 | 朖 1 | 龧 | 嘋 | 噴 | 缺 | 噈 | 颉 |  | 莉 |
| 90 | 柘 | 㖣 | 喀噿 | 㨳 | 禹 | 罦 | 監 | 暒㖇 | 轅 | 峰 | 䃘 | 豩 | 咱 | 哮 | 鮕 |  | 客 |
| A0 | 㗢 | 嗗 |  | 裳奮 | 嘈唼 |  | 嚗吅 | 噯响 | 鲌 |  | 弥 | 哩 | 䁔 | 畫 | 喠 | 敬 |  |
| B0 | 衰 | 垨 | 㩐 | 䵲㖆 |  | 犍蔀 | 斏 | 䌾 | 㴻 | 様 | 㘈 | 嚼 | 御 | 硆 | 喽 |  | 壹 |
| C0 | 閔 | 咆 | 咬 | 嘐砛 |  | 寺 | 嘍 |  | 嘖吅 | 㗺 | 嚄 | 㗘 | 噯 | 嚀 | 囃 | 䧺 | 䃌 |
| D0 | 鹪 | 第 | 哠 | 菭蔵 |  | 贊唯 | 嚾 | 讋嘅 | 䃭， | 繥 | 晡 | 晹 | 啊 | 瀥 | 喛 | 崖 | 回 |
| E0 | 包 | 匈 | － | 団远 | 园 | 图 | 圆 | 困 |  | 図 |  | 圖 | 国 | 囲 |  |  | 困 |
| F0 |  |  |  |  | 图 |  |  |  |  |  |  | 園 |  | 眺 |  | 國 |  |

## 88XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## 8AXX

|  | 0 | 1 | 2 | 3 | 34 |  | 5 | 6 | 7 | 8 | 9 | A | A |  | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 |  | 夷 | 艺 | 石 | 搝竞 | 㚜 | 易 | 亘 | 央 | 卓 | 去 | 去 | 奐 |  | 垶 | 者 | 蚄 | 奜 |
| 50 | 裔 | 㐋 | 有 |  | 宜 | 雩 | 离 | 会 | 奥 | 笑 | － | 塩 | 友有 | 嗲 | 鼎 | 車 | 需 | 㝻 |
| 60 | 見 | 员 | 紐 |  | 奵女 | 奸 | 㚬 | 姲 | 妋 | 处 | 尥 | － | 政 | 这 | 奴 | 妋 | 为 | 如 |
| 70 | 奴 | 碞 | 她 |  | 妧 | 妕 | 妘 | 㚭 | 安 | 姨 | 央妝 | 女晏 | 妟如 |  | 妡 | 妢 | 妦 |  |
| 80 | 妧 | 妬 | 㚭 |  | 作 | 妱 | 妳 | 败 | 好 | 始 | 㡎 | 失 |  | 妹 | 㡎 | 妽 | 妿 | 林 |
| 90 | 姁 | 妧 | 妞 |  | 共 | 姅 | 䔀 | 姈 | 姉 | 㭏 | 㜦 |  | 峡女 | 媢 | 紫 | 姖 | 姙 | 如 |
| A0 | 姑 | 姟 | 如 |  | 姡 | 娼 | 佑 | 妄 | 淁 | 姩 |  |  | 震 |  | 姮 | 姯 | 姰 | 塿 |
| B0 | 姲 | 姳 | 2 |  | 僰始 | 姶 | 姷 | 妍 | 姺 | 姼 |  |  | 姾多 | 战 |  | 娊 | 姢 |  |
| C0 | 娎 | 㚭 | 景妇 |  | 畮 | 娔 | 娕 | 娖 | 湕 | 娃 | 媎娣 |  | 灰 | 碞 | 娞 | 姑 | 始 | 荘 |
| D0 |  | 㚾 | 免姘 |  | 语㚾 |  | 侙 | 娭 | 娮 |  |  |  | 和 | 效 | 媑 | 娸 | 妍 |  |
| E0 | 媡 | 娃 | 氺嫝 |  | 罗 | 需 | 始 | 婃 | 媂 | 婊 |  | 和 | 棱 | 顾 | 婌 | 婍 | 婎 | 婒 |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

8CXX

|  | 0 | 1 |  |  |  |  |  |  |  |  |  |  | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 婻 | 孉 | 哬 |  |  | 要 | 䓵 | 陶 |  | 紬 | 子和 | 孙 | 心 |  |  | 等 | 者 |  |
| 50 |  | 孮 | 緊 | 1 | 1 | 香 | 等 | 䔩 |  | 䵓蒋 | ＋ |  | 㨍 | 翌 | 4 | 完 | 官 | 宊 |
| 60 | 実 | 实 | 囯 | 車 | 弃 | 宅 | 室 | 宖 |  | 実宦 | 家 | 茀 | 宩 | 成 | 奢 | 宮 | 泰 | 雔 |
| 70 | 委 | 寀 | 完 |  | 審完 | 寇 | 穼 | 䀄 |  | 冤考 | 青 | 寉 | 貝 | 考 | 盛 | 㐫 | 内 |  |
| 80 | 宿 | 是 | 擩 | 富 | 寑蒠 | 密 | 貝 | 鲧 |  | 室莌 | 寛 | 家 | 室 | 㖪 |  | 責 | 䀄 |  |
| 90 | 管 | 寫 | 寛 | 寞曾 | 通 | 㻤 | 寝 | 殏 |  | 珼䪽 | 貺蔇 | 節 | 資 | 寭 | 等 | 対 | 时 | 婁 |
| A0 | 尃 | 起 | 將 | 将専 | 專 | 氺 | 尌 | 垶 |  | 導少 | 少寺 | 余 | 尔 | 尗 | 尚 | 少 | 雲 | 趁 |
| B0 | 斯 | 縟 |  |  | 这才 | 发 | 追 | 延 |  | 囯尭 | 尭尤 | 趧 | 盧 | 犮 | 㞅 | 椬 | 楼 | 速 |
| C0 | 両 | 屌 |  |  | 圆 |  | 属 | 屑 |  | 展号 | 員 | 磊 | 屖 | 越 | 遑 | 屚 | 局 | 艮 |
| D0 | 屝 | 兑 | 厘 | 㟺首 | 層 | 履 | 莌 | 履 |  | 事履 | 螱 | 濁 | 眗 | 前 | 亗 | 六 | 令罠 | 产 |
| E0 | 屶 | 㛧 | 3 岒 | T | 汤屺 |  | 屽 | 㛧 |  | 出另 | 屴 | 岄 | 收 | 㰞 | 昮 | 场 | 弫 | ， |
| F0 | 岎 |  |  |  |  |  |  |  |  | 咉岠 | 峏 | 岡 | 岤 | 岥 | 岦 |  |  |  | 8EXX


|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 碞 | 嵮 | 焦 | 等 | 㖘 | 嶮 | 嶧 | 貿 | 崵 | 敇 | 滰 | 嶒 | 献 | 崄 | 娥 | 施 |
| 50 | 嶩 | 商 | 郢 | 奥 | 猅 | 㮢 | 笨 | 壃 | 詨 | 徵 |  | 獄 | 猺 | 掚 | 誰 |  |
| 60 | 衰 | 能 | 唯 | 嶝 | 㟋 | 䅻 | 滰 | 峌 | 宸 | 铰 |  | 荄 | 縝 | 䫑 | 䅾 | 左 |
| 70 | 斯 | 蕒 | 篒 | 殒 | 掝 | 峧 | 偖 | ＜＜ | 㐬 | 巠 | 果 | 笺 | 可 | 渠 | 㠫 |  |
| 80 | 䪽 | 厓 | 邵 | 臥 | 意 | 呮 | 巻 | 圌 | 市 | 币 |  | 肃 | 帉 | 帊 | 需 | 布 |
| 90 | 优 | 代 | 帓 | 拨 | 媔 | 㚐 | 帠 | 帡 | 帢 | 养 |  | 帥 | 悅 | 帩 | 帪 | 師 |
| AO | 布 | 帯 | 帰 | 形 | 帳 | 㖪 | 浣 | 帶 | 帹 | 晎 | 謿 | 性 | 幀 | 幁 | 啺 | 幆 |
| B0 | 幇 | 幈 | 榑 | 幁 | 艊 | 楠 | 挥 | 耏 | 勝 | 醇 | 隹 | 湌 | 际 | 帽 | 幘 |  |
| C0 | 帮 | 巽 | 隆 | 幟 | 筥 | 幣 | 幣 | 的 | 篣 | 幧 | 汸 | 幊 | 䟱 | 知 | 擡 |  |
| D0 | 熄 | 谳 | 帉 | 性 | 7f | 荆 | 幹 | 幾 | 庁 | 石 | 広 | 広 | 㡵 | 㢆 | 庌 | 方 |
| E0 | 底 | 庄 | 床 | 庣 | 弪 | 痃 | 庢 | 庣 | 庤 | 焏 | 寺 | 柽 | 庫 | 废 | 店 | 有 |
| F0 | 庰 | 度 | 柬 | 庴 | 琛 | 度 | 序 | 䖝 | 庿 | 瘲 | 寘 | 廂 | 廃 | 隹 | 廅 |  |

89XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## 8BXX

|  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 |  | 嗗 |  |  | 卓㡎 | 弗 | 㪟 | 新 |  |  | ， | 还 | 婮寝 | 㢻 | 媞 | 唛 |  |  |
| 50 | 㛾 | 㛎 | 嫃㛫 |  | 若始 | 婽 ${ }^{\text {b }}$ | 娧 | 娃 |  |  |  | 䐆 | 媄如 | 媅 |  |  |  |  |
| 60 |  | 猪 | 者㡎 |  |  | 媎 |  | 媐 | 娌 | 媑娃 | 媓妸 | 䢒女 | 姶 | 塻 |  |  |  |  |
| 70 | 媝 |  | 媒 |  | 者 | 媡 ${ }^{\text {b }}$ | 姐 | 堨 |  | 娚媽 | 姁 |  | 嗗 | 道 |  |  | 如兑 |  |
| 80 | 管 | 偷 | 始 |  | 龧 | 踽 | 娃 | 姐 | 妸 | 閏奸 | 閐 | 敏 | 妥嗗 | 媪 | 媽 | 媿 | 婞 |  |
| 90 | 嫄 | 娧 | 差挖 | 揢 | 氨空 | 縈 | 妳 | 曭 | 嗗 | 的歌 | 嫎嫏 | 郊 | 哪 | 10 |  | 始 | 嫗 |  |
| AO | 新 | 敨 | 猃 |  | 相娃 |  | 妋 | 强 | 姆 | 軎 | 㑯娃 | 焕 4 | 嫪㡎 | 㜃 | 婻 | 娸 |  |  |
| B0 | 婎 | 管 | 娭 |  | 婎 |  | 婻 | 璔 |  | 相 |  | 絲 |  | 嫽 | 嫾 | 媴 | 滑 |  |
| C0 | 紼 |  | 容如 | 璔 | 都 |  | 婻 | 嫃 | 巅 | 惲 | 姚娭 | 婻 | 暾㡎 | 兑 | 嬏 | 嬐 |  |  |
| D0 | 场 |  | 道寚 |  | 䢒始 | 嫱 | 㢈 | 䍗 | 輷 | 筌䜌 | 域 | 茦始 | 娬始 | 诨 | 嬡 | 嬞 |  |  |
| E0 | 嬥 |  | ， |  | 选 |  |  | 婑 | 娭 | 謓㛛 | 为 | 䢒 |  | 哭 | 全 | 嬳 |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 8DXX

|  | 0 |  |  | 2 | 34 | 45 | 5 6 |  |  |  |  | A B |  | c D | D E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 第 |  |  |  | 塢駩 | 珿的 | 㚱岶 | 岶崄 | 硈苓 |  | 掝洒 | 䑩岵 | 岾 | 亩炵 | 教 | 啲 |
| 50 | 峒 | 崇 |  | 峈客 | 客囬 | 息峏 | 峌峓 | 峍宔 | 食峏 |  | 垓峌 | 室酸 | 峓讳 | 姥岶 | 告姲 | 佹 |
| 60 | 峘 | 㠻 |  | 宔 | 迬茼 | 岢免 | 若寿 | 寿椟 | 婥峢 |  | 烧峈 | 峧较 | 莪 | 埔 | 輔妬 | ＊ |
| 70 | 堀 | 䇷 |  | 聣 | 峴浱 | 喏島 | 島 | 献 | 域 |  | 哽揢 | 峼峡 | 峓 |  | 峿 |  |
| 80 | 苓 | 检 |  | H | 偁峈 | 嵖伟 | 烌单 | 卷浱 | 婮悚 |  | 岻 | 埕崖 | 星 | it | 謨崕 | 畗 |
| 90 | 崘 | 崙 |  | 崚娷 | 埵讓 | 晴坴 |  | 悚甠 | 秽崢 |  | 娄嘲 | 㟫健 | 崖 | 崪崖 | 宪宩 | 詮 |
| A0 | 巏 | 前 |  | 崲崳 | 崳蚔 | 埸檪 | 新㟄 | 㟄崷 | 崸婻 |  |  | 泭掝 | 昭 | 栲䄈 | 呈娊 | 峺 |
| B0 | 軑 | 㟱 |  | 葴整 | 然㭠 | 嗳婻 | 嵉 | 峰 | 嵎䢒 |  | 压幆 | 㷎島 | 品 | 宮带 | 残 |  |
| C0 | 咸 | 秙 |  | 喜 | 奇新 | 嗡㕍 | 崔岈 | 謑颔 | 军嵢 |  | 㛺禜 | 瑶峪 | 筞 | 膛饾 | 䲧 | 㠃 |
| D0 | 嵭 | 嵮 |  | 滰塎 | 埪娌 | 㙫差 | 差岢 | 等㠃 | 㟝㟋 |  | 家 | 絃栲 | 嵺㟲 | 㛁嫎 | 㠉㴆 | 养 |
| E0 | 賈 |  |  | 嶁鍟 | 䩵䩚 | 笶皠 | 整故 | 嵮嗗 |  |  |  | 嶊嶋 | 鳴 | 馬 | 管 | 宸 |
| F0 |  |  |  |  |  | 歆崔 | 嶕峏 |  | 崺機 |  |  | 燱管 |  |  |  |  |

8FXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  | 0 | 1 | 12 |  | 3 | 4 | 4 |  | 6 | 7 | 8 | 9 |  | A | B | C | D |  | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 倬 | 祀 | 狍 | 艮 | 杯 | 性 | 旬 |  | 做 | 帖 | 志 | 相 | 且 | 田 | 低 | 惔 | 先 |  | 倠 | 析 |
| 50 | 恼 | 位 | 隹 | 怰 | 掲 | 怲 | 丙怳 | 况 | 侗 | 教 | 洔 |  | 杰 | ， | 栐 | 快 | 的 |  | 栘 | 宔 |
| 60 | 诸 |  | 目 | 恇 | 诨 | 悦 | 旨喽 | 堮 | 桃 | 恎 | 复 | 俯 | 危 | 画 | 洨 | 恩 | 㛈 |  | 㓪 | 回 |
| 70 | 弑 |  | 快 | 询 | 恠 | 恔 | 㝾㖒 | 析 | 帩 | 恮 | 悅 |  | 并 | S | 恵 | 等 | 供 |  | 俑 |  |
| 80 | 促 |  | 桂性 | 兌 | 愈 | 除 | 除 | 析 | 悊 | 恪 | 吘 |  | 夾 | ， | 㭪 | 晲 | 㥩 |  | 悗 | 㘼 |
| 90 | 惊 |  | 侱 1 | 识 | 悡 | 桹 | 晨 | 思 | 意 | 喺 | 依 |  | 悪 | 旲 | 腙 | 真 | 桐 |  | 閏 | 侯 |
| A0 | 宫 |  | 官 | 凄 | 椌 |  | 夸幏 | 解 | 想 | 性 | 㤷 |  | 赵 | 娔 | 䭪 | 忩 | 逭 |  | 恮 | 基 |
| B0 | 㑣 |  | 或 | 悡 | 橑 | 惔 | 炎 | 岩 | 惗 | 缷 | 恬 |  | 化 | 至 | 宛 | 慜 | 仿 |  | 罩 | 析 |
| C0 | 眯 |  | 楎 | 懆 | 春 |  | 告 | 側 | 榐 | 相 | 楥 |  | 徥 | 倖 | 愊 |  | 梅 |  | 愇 | 㑑 |
| D0 | 校 |  | 鱼 | 值 | 桶 |  | 曷暒 | 愓 | 㥉 | 年 | 憗 | 官 | 客 | 突 | 愛 | 健 | 慨 |  | 慄 | 淘 |
| E0 | 熼 |  | 模堂 | 䓡 | 㥧 |  | 員兑 | 筧 | 㥩 |  | 惟 |  | 晃 | 疾 | 愲 | 哭 | 援 |  |  | 恰 |
| F0 | 橖 |  |  | 资 | 宰 |  | 萄 | 㣫 | 傅 | 倞 | 侯 |  | 恩 | 涌 | 恌 | 保 |  |  | 骝 |  |

91XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  | 0 | 1 | 2 | 3 |  |  |  | 6 | 7 | 8 | 9 |  | A B | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 执 | 䡃 | 扎 | 扖 |  | 1 | 抆 | 抣 | 扜 | 抢 | 弓托 | 年 | ， | 投 | 扡 |  | 抗 | 托 |
| 50 | 㧋 | 扱 | 拎 | 扮 |  | ， | 扷 | 扸 | 抵 | 倍 | 扎 | 峌 |  | 玨 | 林 | 抱 | 抆 |  |
| 60 | 抈 | 地 | 込 | 㧴 |  | 抎抗 | 抏 | 抢 | 抔 |  | 手扰 | 虎 | － | 択 | 倣 | 抦 | 抧 |  |
| 70 | 拉 | 抗 | 抮 | 担 |  | 坱 | 抲 | 抳 | 推 | 揓 | 失拝 | 否㧊 | 抹 | 抹 | 抾 | 拀 | 拁 |  |
| 80 | 拃 | 拋 | 摮 | 摍 |  | 拕拝 | 拝 | 折 | 欨 | 桩 | 拡 | 拍 | 西 | 拫 | 推 | 奉 | 拵 | 栘 |
| 90 | 拹 | 撸 | 掞 | 诚 |  | 挃 | 挄 | 探 | 探 | 掉 | 歨 | 臣 | 格挍 | 挍 | 挏 | 乫 | 挒 | 挓 |
| A0 | 张 | 押 | 挍 | 捊 |  | 挙 | 扯 | 持 | 挧 | 挩 | 兄 | 克 | 挭 | 稊 | 捏 | 撛 | 饾 | 挴 |
| B0 | 挵 | 拘 | 挟 | 挸 |  | 遈扣 | 按 | 挟 | 揮 |  | 捀指 | 告幏 | 球 | 捇 | 促 | 捊 | 椇 | 捒 |
| CO | 搦 | 捔 |  | 踹 |  | 援 | 指 |  | 捛 | 摟 | 捿 | 兄 |  | 皃 | 挽 | 捦 | 括 |  |
| D0 | 捫 | 挷 | 挃 | 㧣 |  | 捲 | 掏 | 控 | 擙 | 倳 | 建 | 奔扬 | 捼 | 捽 | 椬 | 㧼 |  | 場 |
| E0 | 掄 | 捎 | H | 拓 |  | 砋 |  | 椒 | 掔 |  | 凌 | 永挨 | 播 | ． | 掛 |  |  | 掞 |
| F0 | 掟 | 採 |  | 揭 |  | 撖 | 措 | 孝 | 揭 | 拾 | 命 | 决 |  | 搔 | 㩑 |  | 俫 |  |

93XX

|  | 0 |  | 2 | 23 | 34 | 45 | 5 5 |  |  | 819 |  |  |  |  | D E |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 揁 |  |  | 解硅 | 标揓 | 摘扎 | 拘 | 坷旺 | 掦 | 撂㟫 | 白揓 | 播 |  | 揕诚 | 揗 | 皇肳 |  |
| 50 | 揚 | 換 |  | 搷指 | 指 | 指捜 | 挌 | 搒 | 揥操 | 㨽撃 | 整 | 学 |  | 換挥 | 揮 | 㙟 |  |
| 60 | 易 | 換 |  | 健捚 | 挿掑 |  | 摇掝 | 域 | 掦 | 揾 | 相 | 景搆 | 需 | 掉 | 描 | 隹 | 䖲 |
| 70 | 損 | 振 |  | 摘 | 搒捘 | 捁挌 | 挌㨶 | 㨶掅 | 書 | 挨 | 鲁 | 成澵 |  | 揞诚 | 掝指 | 会 |  |
| 80 | 搥 | 场 |  | 塌㘯 | 擈等 | 等诚 | 捒拍 | 筧捎 | 搰排 | 接振 | 据 | 揾 |  | 椇 | 䩀搩 | 尔 |  |
| 90 | 拿 | 毵 |  | 推扬 | 扬摂 | 摂括 | 䪱接 |  | 矩浐 | 摌挍 | 搈摛 | 措 |  | 据 | 搂 | 逢 |  |
| A0 | 挨 | 擞 |  | 連摚 | 摚彥 | 滾搷 | 賣㹉 | 掊搆 | 摟䆡 |  | 鐑 | 㧽 |  | 揭 | 摥 | 析 | 星 |
| B0 | 譏 | 規 |  | 境等 | 㢣紐 | 第摯 | 摯摄 | 摱澵 | 朝摳 | 摳暒 | 倳 | 搏 | 莗 | 掏 | 鉤 |  | 景 |
| CO | 掕 | 挽 |  | 䓵裹 | 鏲撃 | 軽䌘 | 擎授 | 㓡等 | 毣㧩 | 书 | 掛 | 筫掊 |  |  | 持 | － | 搷 |
| D0 | 㹉 |  |  | 格嵃 | 撚捙 | 撛招 |  | 捣㩲 | 摛辣 | 掝䋆 | 溪 | 掏 | 䱏 | 鹤嘋 | 撦 |  | 推 |
| E0 |  | 撫 |  | 㨋摘 | 掊搂 | 搆挨 | 撤撤 |  | 搆捝 | 筧㨒 | 進敓 | 教揵 | 撿 | 撿抭 | 摊 |  | 捕 |
| F0 |  |  |  | 挨 | 掦臐 |  | 揊擬 | 祴㪇 |  | 跤推 | 椎魩 |  |  |  |  |  |  |


|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 |  |  |  |  | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 擛 | 撤 | 㨫 | 撋 | 唁 | 擐 | 㜔 | 垄 | 年 | 踍 | 澵 | 撸 | 塈 | 棫 | 㘈 |  | 掝 |
| 50 | 㩲 | 挨 | 诚 | 潘 | 旿 | 垿 | 搪 | 撽 | ， | 做 | 拱 | 模 | 罭 | 接 | 敃 | 薬 | 擾 |
| 60 | 擔 | 曟 |  | 待 | 拢 | 損 | 号 | 徒 | 通疟 | 産 | 拱 | 䅥 | 畼 | 琼 | 摣 | 㨢 |  |
| 70 |  | 揬 | 揊 | 掝 | 攖 | 场 | 摸 |  |  | 豲 | 㶆 | 预 | 攞 | 㖸 | 挨 | 敬 |  |
| 80 | 撌 | 街 | 擏 | 㩣 | 撸 | 蠋 | 煺 | 黣眚 | 買 | 䢱 | 硅 | 攰 | 攱 | 城 | 起 | 攻 | 改 |
| 90 | 攼 | 放 | 放 | 战 | 放 | 喔 | 放 | 效敛 | 軥 | 故 | 㪈 | 㗔 | 絃 | 敎 | 敫 | 而 |  |
| A0 | 敨 | 敗 | 敘 | 效 | 拨 | 敷 | 敡 |  | 放晈 | 易 | 钻 | 敛 | 放 | 教 | 敔 | 敏 |  |
| B0 | 䁛 | 玷 |  | 效 | 枚 | 數 | 数 |  | 牫隹 | 复 | 璈 | 㒀 | 敨 | 教 | 忮 | 丽 | 欲 |
| C0 | 筧 | 第 | 淢 | 埸 | 妾 | 斉 | 章 | ＋ | 竞祍 | 齐 | 烺 | 站 | 䘧 | 萄 | 稁 | 外 | 4 |
| D0 | 䗌 | 伹 | 䊀 | 瀵 | 渴 | 所 |  |  | 所軞 | 斬 | 斯 |  | 新 | 斬 | 断 | 缷 | F |
| E0 | 斷 | 断 | 加 | 旌 | 施 | 斿 |  | 施 | 年 | 夜有 | 䢒 | \％ | 旗 | 族 | 族 | 南 | 斻 |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

95XX

|  | 0 | 1 | 2 | 3 |  |  |  |  | 7 | 8 | 89 |  |  |  | C | D |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 吴 | 旳 | 既 | 干号 | 可 |  | 㟯貝 | 晏 | 旼 |  | 电告 | 老盽 | 旿 | 㕧 | 䛀 |  | 昇 | 㖿 |  |
| 50 | 昉 | 者 | 㫜 | 昐 | 岎書 | 今 | 昒 | 昖 | 只 | 方 | 号㿽 | 令 | 吅 | 昜 | 唡 |  | 陔昢 |  |  |
| 60 | 昤 | 昇 | 㳍 | 束算 | 䒜珀 | 旬 | 艮耍 | 昮 | 是 |  | 咈映 | 失 | 昷 | 略 | 眿 | 会 | 昂 |  |  |
| 70 | 脏 | 跳 | 時 | 時晄 | 晄咟 |  | 晆 | 晇 | 晈 |  | 等眭 | 硦 | 明 | 晎 | 晐 |  | 暘 |  |  |
| 80 | 晙 | 晛 |  | 景亘 | 鲁陑 |  | 晠 | 晢 | 晰 |  | 㫜略 | 晧嚕 | 晩 | 咱 | 晫 |  | 晬 |  |  |
| 90 | 㫜 | 誓 | 啓 | 攵潞 | 敀暘 | 晹晾 | 晻咟 | 啘 | 啉 |  | 唱婎 | 往摬 | 暁 | 暃 | 稙 |  | 軍 |  | 早 |
| A0 | 暊 | 辟 | 限 | 曷瞙 | 渶 |  | 暐咟 | 暒 | 䅣 |  | 南梀 | 束哣 | 暘 | 暸 | 㺕 |  | 棈管 |  |  |
| B0 | 哣 | 䓂 | 时 | 缹 | 楊 | 氕 | 舫时 | 嫫 | 䄷 |  | 示 4 | 蚊圱 | 暂 | 智 | 畽 |  | 莫 |  |  |
| C0 | 暲 | 啫 | 嗼 | 莫 | 嗾陦 |  | 暯 | 姩 | 暻 |  | 警 | 暽喑 | 暿咟 | 㯛 | 暨 |  | 曂䂸 |  |  |
| D0 | 星 | 暦 | 堂 | 䊩 | 違摬 | 先 | 㵒 | 晤 | 晆 |  | 隹涬 | 程安 | 定 | 㫛 | 显 |  | 晃 |  |  |
| E0 | 噲 | 曖 | 棌 |  |  |  | 㣁 | 晨 | 暗 |  | 克防 | 类良 | 营 | 嚅 | 㖪 |  | 层曨 |  |  |
| F0 | 雎 | 港 | 㽬 | 蔀 | 溸 |  |  | 曳 |  |  |  |  |  | 曾 |  |  | 暘會 |  |  |


|  | 0 |  | 2 |  |  |  |  | 6 |  |  |  |  | A | B |  | D |  | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 輠 | 揭 | 畨 |  | 浬 |  | 䏩 | 朏 |  |  |  | 朓 | 眼 | 极 | 部 | 部 |  | 朜 | 䍓 |
| 50 | 膜 | 攻 | 䁘 | 堲璃 | 这 |  | 劦 | 瞯 | 勆 | ， | 尤 | 李 | 极 | 机 | 入㐓 | 罙材 | 初 | 朸 |  |
| 60 | 利 | 札 | 朾 | 丁束 | 束杖 | 权梡 | 杆 | 杆 | 标 | 准 | 相 | 相 | 杍 | 杨 | 杨杆 | 任材 | 杕 | 宗 |  |
| 70 | 材 | 杚 | 柯 | 打 | 他 | 圭相 | 杣 | 杤 | 万柗 | 标 | 杧 | 杫 | 杬 | 杮 | 柿束 | 束柗 | 杴 | 杶 |  |
| 80 | 杸 | 桃 | 机 | 边枉 | \＃ | 杽 | 条 | 相 | 构 | 枃枅 | 枅标 | 枆 | 果 | 㕲 | 䂙枌 | 扮 | 防 | 枎 | 棚 |
| 90 | 枑 | 枒 | 枓 | 科柃 | 性板 | 枖 | 槉 | 析 | 枟 | 枟 | 桿 | 枅 | 㚭 | 杆 | 可李 | 杰 | 枅 | 枮 | 㭘 |
| A0 | 㕖 | 柺 | 枹 | 构 | 林标 | 檤 | 枼 | 葉 | 穼桃 | 析 | 枡 | 柀 | 柂 | 柅 | 校 | 柆 | 柇 | 柈 | 极 |
| B0 | 柊 | 集 | 相 | 柯栲 | 坱梅 | 柎标 | 柕 | 柖 |  | 分楼 | 柛 | 枓 | 标 | 枎 | 相 | 相 | 柦 | 柧 | 布 |
| CO | 桝 | 梯 |  | 棫柮 | 出榎 | 校标 | 耐 | 相 | 枌 | 兄 | 杯 | 枒 | 枳 | 査 | 查 | 枍柾 | 柾 | 桝 | 梅 |
| D0 | 椖 | 栄 |  | 泰係 | 生标 | 栐 | 构 | 梁 | 架桹 | 栕 |  | 格 | 栚 | 榤 | 校 | 梀 | 森 | 栟 | 集 |
| E0 | 栢 | 杵 |  | 炏穼 | 穼 | 桝标 | 梩 |  |  | 有 | 栬柯 | 栭 | 相 | 栯 | 有椎 | 伐 | 栱 | 梅 | 称 |
| F0 | 相 | 校 |  | 式椎 | 优 | 架 | 桋 | 桍 | 旁 |  | 案 | 拞 | 梤 | 桘 | 梅 | 梅 | 椤 | 榕 |  |

97XX

|  | 0 |  | 2 |  |  |  | 5 6 |  | 78 | 8 9 |  |  |  |  | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 模 | 椸 | 桝 | 機 | 機标 | 椙䑁 | 梁相 | 脤楮 | 桮桯 | 桯相 | 模㮔 | 椔㮦 |  | 楥 | 桵 | 桸 | 桹 |
| 50 | 栭 | 桻 | 桼 |  | 查据 | 捃椙 | 椙株 | 梀粎 | 栜槚 | 栭樘 | 桎樓 | 楟树 | 篓 | 楠 | 梋标 | 梌 | 捼 |
| 60 | 枹 | 梏 | 桃 |  | 捨杹 | 桭梲 | 想相 | 梖椇 | 梘㭏 | 樓梅 | 梚棚 | 那校 | 條 | 條枟 | 1 | 㕿 | 梠 |
| 70 | 杬 | 榆 | 枌 |  | 穼梩 | 梩柾 | 梪校 | 楮 | 棈䖿 | 䖿相 | 相棁 | 梲 |  | 桌 | 梷 | 梸 |  |
| 80 | 梹 | 慗 | 柫 |  | 梼栲 | 㸿楼 | 粎従 | 梿棁 | 棁黎 | 枃茜 | 葉森 | 䓶棆 |  | 棈 | 棈 | 棊 | 棌 |
| 90 | 矢 | 棏 | 森 |  | 非棓 | 棓㭠 | 楷椇 | 棖葹 | 聚榞 | 䄻㭘 | 标格 | 秷相 | 寿 | 梀 | 梀 | 棡 |  |
| A0 | 棤 | 森 | 棦 |  | 棫臨 | 慜栍 | 虽核 | 検橉 | 棫橑 | 棬根 | 棭松 | 詅樓 |  | 相 | 根 | 梀 |  |
| B0 | 棸 | 莧 | 胗 |  | 先梡 | 椀 | 椀 | 做 | 椄 | 接 | 椆樓 | 椈 |  | 柿 | 椊 | 椌 | 橹 |
| C0 | 椑 | 㭬 | 杵 |  | 甠柂 | 㭶校 | 椗 ${ }^{\text {先 }}$ | 梦相 | 相椚 | 桐模 | 椛检 | 検粱 |  | 柱 | 社 | 相 |  |
| D0 |  | 楼 | 棆 |  | 椎桝 | 椟栏 | 榱 | 样植 | 椮 | 椮 |  | 復椲 |  | 䍝䬶 | 椵 | 榾 |  |
| E0 | 椸 |  | 樞 |  | 奈榎 | 校 | 楀格 | 格相 | 楄 | 楄椱 | 楅 | 楆析 |  | 楮 | 楉 | 楊 |  |
| F0 | 核 |  | 楎 |  |  |  | 棪梘 |  |  | 棈 |  |  |  |  |  |  |  |

98XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 欯 | 既 | 欱 | 践 | 㕹 | 歇 | 軟 | 數 | 炊 | 颜 | 欽 | 你 | 納 | 呺 | 胹 | 歇 |
| 50 | 哢 | 睢 | 㪣 | 㷧 | 馷 | 䓵 | 勤 | 歐 | 辟 | 㰴 | 歓 | 楠 | 颠 | 款 | 歇 | 数 |
| 60 | 㰴 | 欲 | 歇 | 歇 | 欺 | 俱 | 砍 | 歡 | 起 | 步 | 近 | 毒 | 䇈 | 齿 | 歯 | 獾 |
| 70 | 踵 | 歳 | 敬 | 歴 | 謮 | 鹏 | 䄳 | 覒 | 夕 | 歽 | 殉 | 攻 | 歼 | 殅 | 殈 |  |
| 80 | 理 | 㱩 | 残 | 殐 | 殑 | 殏 | 殕 | 㱞 | 残 | 豕 | 淋 | 䓡 | 殞 | 殟 | 樬 | 殢 |
| 90 | 琒 | 鴙 | 殥 | 䃖 | 残 | 㱴 | 攻 | 姩 | 倩 | 薚 | 嬐 | 顛 | 䫂 | 列 | 矅 |  |
| A0 | 㲂 | 殹 | 殺 | 縠 | 陪 | 媇 | 嶅 | 萄 | 浐 | 堅 | E | 剔 | 坡 | 5 | 窑 | 田 |
| B0 | 毎 | 素 | 坥 | 昆 | 集 | 赻 | 毯 | － | 㐋 | 乫 | 拪 | 管 | 施 | 租 | 毦 | 䞼 |
| CO | 远 | 毩 | 㲑 | 㿞 | 挘 | 琣 | 粍 | 器 | 建 | 珞 | 㕰 | 連 | 检 | 位 | 㖘 |  |
| D0 | 兟 | 嘍 | 摸 | 埶 | 魹 | 輱 | 澶 | 楽 | 車 | 純 | 膆 | 野 | 氐 | 気 | 匂 |  |
| E0 | 吹 | 氟 | 氣 | 实 | 虫 | 氮 | 氣 | 晹 | 気 | 氶 | 水 |  | 水 | 氻 | 永 | 氾 |
| F0 |  |  | 汍 | 污 | 河 | 汮 |  | 汍 | 汎 |  |  |  |  |  |  |  |


|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 吘 | 淎 | 洖 | 淐 | 淒 | 涪 | 淔 | 洼 | 淗 | 涙 | 制 | ， | 滞 | 淢 | 洸 | 淥 |
| 50 | 这 | 淨 | 淩 | 㴜 | 桩 | 淯 | 泠 | 淲 | 淴 | 澖 | 淶 | 清 | 践 | 泟 | 茛 | 号 |
| 60 | 摔 | 泳 | 温 | 渃 | 渄 | 汧 | 渇 | 済 | 涉 | 渋 | 渏 | 㣫 | 渓 | 剆 | 秃 | 渙 |
| 70 | 減 | 澳 | 渞 | 渟 | 渢 | 渦 | 滳 | 渨 | 淮 | 測 | 洪 | 傥 | 涼 | 湖 | 渭 |  |
| 80 | 漢 | 涗 | 海 | 渻 | 泣 | 琙 | 渾 | 渿 | 湀 | 洽 | 濯 | 湅 | 湆 | 消 | 湈 | 合 |
| 90 | 湊 | 湋 | 浪 | 湏 | 湘 | 湑 | 温 | 揵 | 湗 | 湙 | 洞 | 湜 | 湝 | 湞 | 谈 |  |
| A0 | 湢 | 㵔 | 施 | 浂 | 湦 | 湧 | 湨 | 湿 | 渾 | 愁 | 酒 | 湯 | 㳥 | 漕 | 暧 | 南 |
| B0 | 业 | 垓 | 湶 | 湷 | 湾 | 渾 | 淮 | 湻 | 湼 | 潘 | 満 | 澡 | 溂 | 泽 | 溇 | 為 |
| C0 | 溊 | 潗 | 溌 | 溉 | 淮 | 䫉 | 㳖 | 溓 | 溔 | 堟 | 準 | 乗 | 溙 | 洛 | 浤 | 薄 |
| D0 | 漸 | 洘 | 汿 | 洽 | 溤 | 湤 | 浅 | 鳰 | 濘 | 溠 | 漫 | 洦 | 涪 | 浿 | 潄 | 䒺 |
| E0 | 溹 | 旡 | 溾 | 碰 | 滀 | 魣 | 滄 | 澸 | 滆 | 滈 | 滉 | 滳 | 隆 | 瞨 | 浑 | 鿄 |
| F0 |  |  | 8 | 淮 | 渓 | 偁 | 潼 |  | 滧 | 佰 | 落 | 渲 | 渾 | 颜 | 滯 |  |

9EXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 |  | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 顔 | 漠 | 溪 | 濩 | 陦 | 跙 | 直瀋 | 存 | 渾 | 濰 | 濱 | 嚡 | 潜 | 潦 | 瀆 | 閣 | 甪 |
| 50 | 浠 | 洪 | 敄 | 䅋 | 沙 | 濽 | 瀆淲 | 发 | 勸 | 瀀 | 䃄 | 潼 | 埧 | 朗 | 晕 | 貝 | 潢 |
| 60 | 渾 | 演 | 湟 | 滀 | 擄 | 瀤 | 勆 | 城 | 㴶 | 驖 | 浿 | 緻 | 淮 | 颖 | 淮 | 漊 | 瀘 |
| 70 | 澵 | 滩 | 淕 | 教 | 懐 | 溸 | 新 | 通 | 橧 | 滚 | 漓 | 预 | 㴰 | 洓 | 滔 | 繁 |  |
| 80 | 潡 | 瀩 | 洋鉎 | 潹 | 管 | 㳅 | 餪 | 風 | 驚 | 潐 | 漤 | 䁤 | 晹 | 洗 | 滛 | 瀻 | 衰 |
| 90 | 競 | 瀾 | 瀿 | 湘 | 澖 | 滑 | 澵 | 鹵 | 滠 | 湦 | 潐 | 漌 | 濯 | 做 | 鴺 | 浐 |  |
| A0 | 軽 | 渔 | 嘅 | 灒 | 䈋 | 淮 | 蔀 | 雜 | 淮 | 湤 | 跣 | 湱 | 滰 | 洞 | 激 | 䫟 |  |
| B0 | 筧 | 瀾 | 顴 | 溸 | 㳿 | 椇 | 洨 | ， | 漖 | 蔀 | 第 | 先 | 炎 | 灱 | 灲 | 欦 |  |
| CO | 灷 | 炕 | 灺 | 圶 | 災 | 甭 | 処 |  | 爸 | 烟 | 玟 | 炇 | 炈 | 炑 | 炌 | 炍 | 炏 |
| D0 | 抨 | 炑 | 炓 | 苂 | 断 | 环 | 徒 | 炎 | 炞 | 俎 | 炠 | 炡 | 脙 | 炣 | 妱 | 炥 | 炦 |
| E0 | 施 | 龙 | 烚 | 炪 | 鴛 | 炲 | 合姨 | 央 | 炵 | 炶 | 為 | 炾 | 㛛 | 烄 | 助 | 行 | 烇 |
| F0 | 负 | 休 | 炋 | 烍 | 否 | 鳥 | 䙺 |  | 姚 |  | 烓 | 姐 | 威 | 裁 | 核 | 烚 |  |

99XX

|  | 0 |  | 2 | 3 | 4 |  | 5 |  | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 楽 | 榎 | 樓 | 機 | 機棱 | 䘚椗 | 硧 | 校 | 楽 | 榱 | 楲 | 槓 | 棹 | 榾 | 淘 | 黄楾 | 棹 |
| 50 | 梖 | 杵 | 梅 | 枯 | 真妳 | 膰樓 | 稢校 | 儌 | 椋 | 桃 | 楅 | 儌 | 相 | 枟 | 标 | 澡㩖 | 粎 |
| 60 | 檂 | 集 | 缺 | 枚 | 枯橉 | 㭠槙 | 辕 | 㩲 | 椊 | 構 | 析 | 樈 | 橉 | 栜 | 兟的 |  | 钧 |
| 70 | 機 | 檘 | 牲 | 機 | 桂棫 | 郘樓 | 楼 | 橄 | 檞 | 櫝 | 棌 | 檢 | 楮 | 堷 | 橉 | 垬 |  |
| 80 | 稢 | 嵄 | 粷 | 楠 | 橉 | 浩樓 | 樓栍 | 噺 | 栱 | 棈 | 椋 | 檴 | 相 | 校 |  | 棈 | 鸺 |
| 90 | 檺 | 㩜 | 樓 | 框 |  | 䍿哿 | 喿 | 棌 | 楀 | 權 | 樞 | 橎 | 硓 | 摬 | 䉼檄 | 梲 | 相 |
| A0 | 珹 | 榜 | 梅 | 㭠 | 析 | 析 | 有 | 喿 | 㯮 | 樮 | 蓸 | 櫔 | 㭠 |  |  | 䓔 |  |
| B0 | 㰖 | 梏 | 素 |  | 見淘 | 㗢揰 | 杪标 | 校 | 㒂 | 機 | 磳 | 播 | 枸 | 祖 | 楊 | 楮根 |  |
| CO | 㗚 | 森 | 機 | 陪 | 相覅 | 相 | 榛樓 | 橠 | 篓 | 椅 | 校 |  | 131 | 縝 | 枹 | 禹 |  |
| D0 | 梧 | 數 | 棫 | 3 | 堂逿 | 野椱 | 楛 | 欀 | 槽 | 梅 | 橁 | 殹 | 構 | 楼 |  | 撿惟 | 校 |
| E0 | 權 |  | 淘 | 梅 | 臬梅 |  |  | 篤 | 椥 | 集 | 㱫 | 鹳 | 1 | 櫂 |  | 推相 |  |
| F0 |  |  |  |  |  |  |  |  |  | 欨 |  |  | 政 |  |  |  |  |

9BXX

|  | 0 |  |  |  | 34 | 45 |  |  | 78 |  |  |  |  |  |  | D E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 汗 |  | 江 | 土㳄 | 洨 | 沒 | 汦汧 | 汧洴 | 汫槂 | 准㑂 | 汭江 | 湤 | 汯 | 汱 | 汳 | 汳汾 | 今 |
| 50 | 汸 | 決 | 汻 | 汼 | 生污 | 标 | 杼 |  | 沋边 | 速 | 沋洰 | 沍 | 洮 | \＃ | 7没 | 没沕 | 汤 |
| 60 | 黍 | 沘 | 湤 | 沜 | 牌棫 | 栤 |  |  | 沢源 | 㰸氿 | 沫对 | 䂞泀 | 沰 | 胗 |  |  |  |
| 70 | 沺 | 泀 | 況 | 兄洞 | 洞治 | 泃洗 | 泆淤 | 法 | 洔 | 泋泙 | 泍 | 泎嫁 | 泏 | 㳠 | 泇泒 | 泒 |  |
| 80 | 泙 | 泚 | 此洊 | 泝 | 泝泟 | 泟泿 | 订 | 娍 | 娍泩 | 泩汸 | 泬淮 | 泭 | 泲 | 䀆 | 泴泹 | 泪浱 | 良 |
| 90 |  | 胀 | 減 | 淢洮 | 逐㳘 | 洈蔀 | 有 | 存吘 | 姫湍 | 洏洐 | 洐淮 | 洑 | 涑 | f | 消 | 淮 |  |
| A0 | 永 |  | 洟 | 夷浑 | 湦沫 | 洣 | 汽滈 | 洔 | 酒 | 洦洨 | 洨埧 | 浬 | 网 | 汪 | 正牢 | 㲑 | E |
| B0 | 淘 |  | 洸 | 洺 | 洺洿 | 洘 | 誼沉 | 涂 | 浄洮 | 浉沋 | 浅 | 浐泬 | 䍖 | 浔 | 浗 | 浗洮 |  |
| C0 | 㳘 | 淮 | 湤滰 | 孛 |  | 浤渴 | 浥淕 | ， | 沭垱 | 湮 | 浬 | 浭湤 | 浰 | 浱 | 浲 | 浲消 |  |
| D0 |  | 洮 |  |  |  |  | 浾沙 | 洗 | 涀游 | 涁洞 | 泪 | 濡 |  |  | 涊 | 涊涋 |  |
| E0 | 涏 |  | 涒 | 浪 | 淮涗 | 涗涘 | 涘涙 | 涙涚 | 涚㳹 | 涜洗 | 涢 | 淳 | 涬 | 涭 | 㳔 | 漺浱 | 辰 |
| F0 | 湤 |  |  |  | 涹涺 | 涺涻 |  |  |  | 淡浚 | 淁渜 |  |  |  |  | 淉滏 |  |

9DXX

|  | 0 |  |  |  |  |  |  |  |  |  |  |  |  | B |  | D |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 滰 |  |  | ， |  |  |  | 淘 | 策 |  | ， | － | 流 | 涌 | 袁 | 㝨 |  |  |  |
| 50 |  | 洋 |  |  |  | 呩 | 漊 | 洤 | ， | 湘 | 涸 |  | 笴 | 溉 |  | 涘 |  |  |  |
| 60 | ， | 泪 |  | 桼㩐 | 洼 |  |  | 漟 |  |  | 漠䢒 | ， |  | 羕 |  |  |  | 責 |  |
| 70 | 㳹 | 泿 |  | 崇滛 | 教洨 |  | 漸 | 渘 | 淡 | 良 | 漻洗 | － | 圂 | 䂆 |  |  |  |  |  |
| 80 | － | 擞 |  | 迷 | 洨洨 | 注洨 | 洨 | 浧 | 谁 |  | 潏洨 | 淮嫁 | 鋾 | 潒 | 漙 | 洨 |  | 年 |  |
| 90 | 潗 | 流 | 湕 |  | 型 |  | 晹 | 潩 | 㳶 |  |  | 泪淘 | 潥 | 园 | 蝺 | 洤 |  |  |  |
| A0 | 蝉 | 淐 | 潰 | 貴 | 洁湤 | 潳蒗 |  | 法 |  | 淋 | 潹㳹 |  | 潭 | 潾 |  | 景 |  | 渋 |  |
| B0 | 敄 | 通 |  | 真饬 | 尞 | 澊 | 瀑 | 澏 | 罢 | 勫 | 㵢江 | 湏 | 澓 | 澔 | 澕 |  |  |  |  |
| C0 | 吻 | 滴 |  | 嘼洨 | 而 | 㴭 | 㴪 | 渾 | 治 |  | 澣 | 澤 | 擘 | 澦 | 湴 |  |  |  |  |
| D0 | 頁 | 3 |  | 苗滴 | 梁 |  | 澴 | ， |  |  |  |  | 新 |  |  |  |  |  |  |
| E0 | 㮏 | 濁 |  | 農湤 | 逿 |  |  |  |  |  | 淽涘 |  | 秝 | 湯 |  |  |  |  |  |
| F0 | 喊 | 縒 |  |  |  |  |  |  |  |  |  |  | 澴 |  |  | 荋 |  |  |  |

9FXX

|  | 0 |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 炡 | 烝 | 胡 | 梸 | 姷 | 䜤 | 烢 | 烣 |  | 灰 | 栚㓌 | 欬 | 漟 | 煵 |  | 峬 | 寿 | 烴 | 昫 |
| 50 | 校 | 娃 | 娘 | 良 | 㨩 | 烼 | 筀 | 烍 |  | 员 | 赑 | 悠 | 㛫 | 竟 | 㛎 | 䗢娟 | 娟椬 | 焇 | 良 |
| 60 | 责 | 㛖 | 焍 | 弟 | 热 | 尞 | 烟 | 造 |  | 媌煋 | 焗 | 関 | 焜 | 煏 |  | 敦煛 | 焟㛙 | 悴 | 無 |
| 70 | 烄 | 訤 | 只 | 码 | 婉 | 熜 | 书 | 娚 |  |  | 满 $\downarrow$ | 焬 | 焭 | 疑 |  | 婎 | 焳煝 | 桷 |  |
| 80 | 何 | 䡟 | 年貼 | 加 | 场 | 开 | 煴 | 焼 |  | 场 | 格效 | 烦 | 煀 | 煁 |  | 年洷 | 烇炧 | 往 | 比 |
| 90 | 晝 | 赈 | 梀 | 赖熡 | 煋 | 放 | 煏 | 煐 |  | 党煬 | 煒大 | 煓 | 絬 | 熙 |  |  | 䊝䲴 | 䧕 | 洷 |
| A0 | 愿 | 㐨 | 榞 | 妇 | 娖 | 煂 | 娗 | 禜 |  | 柔龽 | 煥 ${ }^{\text {杭 }}$ | 煩 | 煪 | 煫 |  | 楊然 | 烈煝 | 煯 | 䌊 |
| B0 | 焇 | 焬 | 煵 | 南煶 | 煶 | 㧤 | 媾 | 婟 |  | 㝁嗅 | 烟大 | 䧕 | 滉 | 盛 |  | 秋 | ， | 㖹 | 燅 |
| C0 | 赎 | 鵖 | e | 园 | 㘍 | 烟 | 婷 | 熎 |  | 梯 | 3 | 焱 | 䲴 | 煩 |  |  | 熗 ${ }^{\text {㭏 }}$ | 嬅 | 媔 |
| D0 | 爁 | 㚾 | 煰 | 堵 | 熡 ${ }^{\text {d }}$ | 熢 | 萑 |  |  |  | 権 | 㧥 | 嫏 | 枸 |  | 兄 | 焚 |  | 㷬 |
| E0 | 在 | 熱 | 疑 | 頳榎 | 漟 | 燝 | 熷 | 筧 |  | 嬉㛵 | 熻 ${ }^{\text {d }}$ | 瀷 | 媴 | 機 |  | 熿鹳 | 燀弯 | 莘 | 咀 |
| F0 | 熠 |  |  |  |  |  | 榜 |  |  | 嫶 | 横） |  |  |  |  |  |  | 悊 |  |

A0XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

A1XX

|  | 0 | 1 | 2 |  | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 |  | A |  | c | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A0 |  |  | ， | ， | － | － |  |  |  | － | ＂ |  | 々－ | － |  | 11 | ．．． | － |  |
| B0 | ＂ | ＂ |  | ［ | ］ | ＜ | ， |  | 8 | ） | 「 | 」 | 『 | d |  |  | 】 | ［ | 1 |
| C0 | $\pm$ | $\times$ |  | $\div$ | ： | $\wedge$ | $V$ |  | $\Sigma$ | $\square$ | $\cup$ | $\cap$ | O | E：： |  | $\checkmark$ | $\perp$ | 1 | $\angle$ |
| D0 |  | － |  | S | ¢ | 三 | － |  | ＝ | cs | $\propto$ | F | ＊ | － |  | $\leq$ | $\geq$ | $\infty$ | $\because$ |
| E0 | $\therefore$ | 0 | 7 | 우 |  | ， | ＂ |  | ${ }^{\circ}$ | \＄ | － | C | c | \％ | \％0 | § | No． | 号 | $\star$ |
| F0 | O | － | － | （） | $\diamond$ | － | $\square$ | － | － | $\Delta$ | A | ※ | \％ | $\rightarrow$ | － | 1 | $\downarrow$ | $=$ |  |

A3XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | D | E | F |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

A4XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ | $F$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| A5XX |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 |  | 12 | 23 |  |  | 5 | 6 | 7 | 8 |  | 9 A | A B | B C | C | D |  | F |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A0 |  |  | ァ P | ア 1 | 1 | 1 | 万 | ウ | I | I |  | 才 才 | 才力 | 力 | ガ | キ | キ | 万 |
| B0 | ワ |  | $\checkmark$ | ゲコ | コ | $コ ゙$ | サ | ザ | シ | ジ |  | スス | ズセ | セせ | セ | ソ | ソ | 夕 |
| C0 | 8 |  | 千f | 于 | シ | ツ | ツ | テ | $\stackrel{\rightharpoonup}{\tau}$ | ＋ |  | ドナ | ナ | －＞ | 又 | ネ | 1 | 八 |
| D0 | 分 |  | パヒ | ヒ | ビヒ | ピ | 7 | 7 | 7 | $\wedge$ |  | ベヘ | ペホ | ホ | 术 | 术 | マ | ミ |
| E0 | 4 |  | $\times$ モ | モ | ャ | や | ュ | ユ | コ | 钱 |  | ラリ | ノル | ルし | レ | 口 | 7 | 7 |
| F0 | 4 |  | マ $ヲ$ | ヲン | ン | 官 | 力 |  |  |  |  |  |  |  |  |  |  |  |

A6XX

|  | 0 | 1 | 1 |  | 3 | 4 | 5 | 6 |  | 7 | 8 | 9 | A | B | c | D |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A0 |  |  | A | B | $\Gamma$ | $\Delta$ | E |  | Z | H | $\theta$ | 1 | K | $\wedge$ | M | N | 三 | 0 |
| B0 | $\Pi$ |  | P | $\Sigma$ | T | Y | Ф |  | X | \％ | Q |  |  |  |  |  |  |  |
| C0 |  |  | $\alpha$ | $\beta$ | $r$ | $\delta$ | $\varepsilon$ |  | $\zeta$ | $\eta$ | $\theta$ | $l$ | $\kappa$ | $\lambda$ | $\mu$ | $\nu$ | $\xi$ | $\bigcirc$ |
| D0 | $\pi$ |  | $\rho$ | $\sigma$ | $\tau$ | $v$ | $\phi$ |  | $\chi$ | $\psi$ | $\omega$ | ， | 。 | ， | ： | ； | ！ | ？ |
| E0 | － |  | $\bigcirc$ | － | $\checkmark$ | － | $\checkmark$ |  | ล | $\approx$ | $\neg$ | － | － | － | $\cdots$ | $\pm$ |  |  |
| F0 |  | － |  |  | ！ |  |  |  |  |  |  |  |  |  |  |  |  |  |

A7XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

A8XX

|  | 0 | 1 |  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 |  |  |  |  | － |  | $\cdots$ |  | \％ | F | $\pi$ | $\bigcirc$ | $\checkmark$ | $\swarrow$ | ／ | $\square$ |  |
| 50 | $\fallingdotseq$ | $\leq$ | $\leq$ | $\geq$ | $\Delta$ | － | I | $\Gamma$ | $\Gamma$ | $\Gamma$ | 7 | 7 | 7 | L | L | L | － |
| 60 | 1 | 」 |  | － | F | － | － |  | － | T | T | T | $\perp$ | $\perp$ | $\perp$ | ＋ | $+$ |
| 70 | ＋ | $r$ |  |  | $J$ | － | ／ | ， | X |  |  |  |  | $\square$ | $\square$ |  |  |
| 80 |  | － |  |  | － | I | I |  |  | － |  |  | V | $\nabla$ | 4 | － | $\checkmark$ |
| 90 | ， | $\bigcirc$ |  | $\oplus$ | 〒 | ＇ | ＂ |  |  |  |  |  |  |  |  |  |  |
| A0 |  | ã |  | á | à | à | ē | 6 | 厄 | è | T | 1 | I | i | ō | 6 | Ō |
| B0 | ò | 0 |  | ú | ū | ù | a | a | 0 | 0 | ü | Et | a | 血 | ก | กั | ก̀ |
| C0 | 9 |  |  |  |  |  | 勺 | 女 | $\square$ | ᄃ | 力 | 去 | 3 | 为 | ＜ | 5 | 厂 |
| D0 | 4 | $<$ |  | T | 出 | 渚 | P | 日 | p | 方 | 厶 | Y | ट | ट | せ | 可 | 乙 |
| E0 | 幺 | 又 |  | 3 | 勺 | 九 | $\angle$ | 儿 | 1 | 又 | 4 |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

A9XX

|  | 0 | 1 |  |  |  | 4 |  | 516 |  |  | 8 |  |  |  |  | c | D |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | I |  | 11 | III | $\times$ | 8 |  | $\perp$ | －邫 | 主 | 文 | 佔 | m |  | kg | mm | cm | km |  | $\mathrm{m}^{2}$ |
| 50 | cc |  | M 12 | In k | log | mil |  | ： | $\checkmark 1$ | I |  | Te | 株 |  |  | － |  |  |  |  |
| 60 | － |  | ， | $\bigcirc$ | $\checkmark$ | － |  | ＜$>$ | 5 |  |  |  |  |  |  |  |  |  |  |  |
| 70 |  |  |  | ： | ： | ？ |  | 1 | （ | ） | （ | 1 | （ |  | $)$ | \＃ | ＊ | ＊ | ＊ |  |
| 80 | ＋ |  | － | ＜ | ＞ | $=$ |  | $\backslash$ | s | \％ | － | － |  |  | － |  |  |  |  |  |
| 90 | L |  |  |  | $\square$ | ㄴ |  | O | 0 |  |  |  |  |  |  |  |  |  |  |  |
| A0 |  |  |  |  |  |  |  |  |  |  | － | －－ |  |  |  | － | － |  |  |  |
| B0 |  | － | － 1 |  |  |  | 7 |  |  |  | $\llcorner$ | L | L |  | L | － | － | 1 |  | 1 |
| C0 | － |  |  | ＋ |  |  |  | － |  |  |  | － | 1 |  | i | 1 | － | 7 |  |  |
| D0 |  | T | － | T |  |  |  |  |  |  |  | $\perp$ | － |  |  | 1 | $\perp$ | $\perp$ |  |  |
| E0 | ＋ | ＋ | － | － |  | ＋ |  | ＋ | ＋ |  | ＋ | ＋ | － |  | ＋ | ＋ | ＋ | ＋ |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

ABXX

|  | 0 | 1 |  | 23 | 3 | 4 | 5 | 6 | 7 | 78 | 8 | 9 | A | B | c | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 檴 | 而 | 榢 | 潆 | 䚇 | 㺏 | 鱞 | 獸 | 衡 | 速 | 氘 | 哺 | 縜 | 褮 | 猚 |  | 嗗 | 諹 |
| 50 | 復 | 玅 | 少发 | 妶首 | 立 | 王 | 圠 | 午 | 王现 | 功现 | 现 | 现 | 玓 | 玔 | 玕 | 玗 | 玘 | 珪 |
| 60 | 玚 | 玜 | 珄 | 玝 | 玦 | 玠 | 玡 | 拄 | 市现 | 理现 | 琱 | 玦 | 珫 | 玨 | 玲 | 琱 | 玭 | 玱 |
| 70 | 沲 | 現 | 理 | 玮现 | 球 | 玹 | 婊 | 珣 | 玽理 | 理牫 | 玿 | 㽍 | 瑞 | 珄 | 理 | 珨 | 理 |  |
| 80 | 现 | 理 | 球 | 珎 | 建 | 珓 | 珻 | 琼 | 涴 | 珖现 | 玩 | 㧶 | 珚 | 傅 | 珜 | 珝 | 㺷 | 园 |
| 90 | 珢 | 珣 |  | 玝 | 珦 | 珨 | 珪 | 珫 | 充珹 | 牫现 | 㻞 | 珯 | 珰 | 罗 | 琰 | 㻔 | 理 | 瑒 |
| A0 | 碔 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

ACXX

|  | 0 | 1 | 12 |  | 3 | 4 | 5 | 6 | 6 7 | 78 | 8 | 9 | A | B |  | C D | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 珸 |  | 诚理 | 珺 | 珻 | 現 | 珽 | 現 | 現玨 | 珿牫 | 珨 | 瑅 | 哇 | 現 |  | 猡 | 琈 | 琋 | 㢷 |
| 50 | 琳 |  | 䦽 | 哺 | 琒 | 玩 | 琔 | 䙹 | 琕玨 | 牫现 | 琗 | 琘 | 琙 | 球 |  | 璟 | 㕵 | 琟 | 重 |
| 60 | 球 |  | 喑理 | 琤 | 兽 | 琩 | 䛭 | 珗 | 象婊 | 官 | 琱 | 琲 | 㟋 | 㧹 |  | 呆 | 珐珃 | 㻇 | 琽 |
| 70 | 現 |  | 楎 | 璉 | 珼 | 琽 | 琣 | 現 | 瑅理 | 星 | 珻 | 瑈 | 珼 | 书 |  | 喡 | 湨 | 瑍 |  |
| 80 | 現 |  | 成牫 | 故 | 瑑 | 瑒 | 牫 |  | 瑔理 | 㻴 | 㻿 | 瑝 | 瑠 | 嚧 |  | 瑢 | 頊 | 璀 | 暒 |
| 90 | 廌 |  | 㯃 | 瑁 | 瑩 | 瑪 | 瑠 |  | 逗理 | 棵 | 睢 | 置 | 瑲 | 珛 |  | 崚 | 㻿 | 砣 | 漛 |
| A0 | 瑞 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

ADXX

|  | 0 |  | 12 | 2 | 3 | 4 | 5 | 6 | 7 | 78 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 斝 |  | 時 | 璟 | 緊 | 瑆 | 璄 | 钡 | 潘䍖 | 璆 | 倣 | 揵 | 满 | 璌 | 璍 | 瑒 | 㭚 | 玨 |
| 50 | 珓 |  | 柆现 | 珻 | 璅 | 尳 | 璊 | 耏 | 尞珓 | 璊 | 珒 | 嫧 | 璟 | 細 | 珽 | 瞞 | 璣 | 熄 |
| 60 | 㪇 |  | 愛環 | 璪 | 璫 | 敨 | 揵 | 起 | 亩哺 | 嘈 | 環 | 愣 | 璄 | 嫧 | 玩 | 環 | 理 | 瑒 |
| 70 | 珓 |  | 竟玨 | 燡 | 箴 | 筀 | 琉 | 牫 | 璄理 | 䞍 | 瓘 | 瓘 | 瓄 | 瓄 | 珽 | 瓄 | 椱 |  |
| 80 | 罧 |  | 碩 | 傚 | 適 | 鹤 | 需 |  | 垍牫 | 瑱 | 㖸 | 玨 | 璫 | 敗 | 澵 | 璋 | 㻿 | 瓘 |
| 90 | 琱 |  | 嘖理 | 琙 | 䖿 | 师 | 瓡 |  | 䍿耻 | 酎 | 愐 | 取 | 酗 | 完 | 旊 | 䙺 | 职 | 酲 |
| A0 | 酗 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

AFXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  | 0 | 1 | 2 | 3 | 34 | 4 | 5 | 6 | 7 | 8 | 9 | 9 A | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 㼣 | 細 | 䣨 | 朋 |  | 㼣 | 颣 | 理 | 堂 | 㚬 | 㛵 | 的 | 捱 | 㯺 | 筬 | 垗 | 藱 | 盶 |
| 50 | 甁 | 葲 | 朗 |  | 㽀 | 妬 | 輛 | 瓨 | 鹳 | 解 |  | 衰 | 易 | 塊 | 咶 | 泷 | 堂 | 眬 |
| 60 | 牲 | 產 | 産 |  | 廷兂 | 发 | 等 | 用 | 荕 | 由 |  | 由 | 貫 | 罗 | 甽 | 㽖 | 界 | 现 |
| 70 | 昫 | 畄 | 䛎 |  | 㽛睢 | 映 | 讲 | 昣 | 畐 | 烟 |  | 钣 | 畄 | 畕 | 眼 | 富 | 時 |  |
| 80 | 䓢 | 㑑 | 要 |  | 畠盶 | 晐 | 畢 | 畣 | 畤 | 罟 |  | 番 | 㳖 | 畫 | 番 | 㻌 | 酶 | 畋 |
| 90 | 異 | 雷 | 置 |  | 書 | 當 | 㖟 | 畄 | 䁖 | 晹 |  | 棰 | 畾 | 硨 | 疁 | 登 | 瞵 | 㬝 |
| A0 | 浐 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

B0XX

|  | 0 |  | 2 |  | 34 |  | 5 | 6 |  | 78 |  |  |  |  | C | c D |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 瘤 | 疾 | 㘯號 | 風瘠 | 癁 | 宣 | 雉 | 㾤 | 者 | 摘理 |  | 疾 | 篒 | 袚 | 献 | 闑㢁 | 㿑榣 | 临 | 鹰 |
| 50 | 病 | 詹 | 准减 |  | 浐 | 瘄 | 㫂 | 㾔 | 癫㾇 | 康病 | 痾 | 熍 | 榣 | 退 |  | 痽寉 |  | 頵率 | 﨡 |
| 60 | 唛 | 䆓 | \％ |  | 雍 | 䋊 | 潦 | 㫎 | 事 | ， | 敢 | 帘 | 發 | 発 |  | 昛 | 僰 | 寊 | 泉 |
| 70 | 完 | 捾 | 巴的 |  | 昤的 | 昧 | 首 | 皏 | 并暒 | 家的 | 樴 | 昭 | 鲌 |  |  | 時咟 | 浢晶 | 星 |  |
| 80 | 皜 | 铋 | 珖的 | 㿞䚌 | 買伯 | 壦 | 的 | 晬 | 鿾䃓 | 華的 |  | 䋘 | 曖 | 崖 |  | 檪 | 祭 | 㬉 | 箐 |
| 90 | 畋 | 效 | 杆发 | 泡 | 钴 |  | 皺 | 䜵 | 被䩙 | 破為 | 效 | 駮 | 䊖 |  |  |  | 被䓪 | 皿皿 | 冎 |
| A0 | 袚 | 啊 | 可鄫 |  | 埃 ${ }^{\text {打 }}$ | 挨 | 哎 | 唉 | 奚哀 | 哀 | 㾔 | 癌 | 萢 | 矮 |  | 文碢 | 淐 | 爱侄 | 险 |
| B0 | 鞍 | 氮 | 気安 |  | 俺 | 按 | 暗 | 崖 | 岸渡 | 真真 | 案 | 砊 | 昂 | 婁 | 凹 | 凹教 | 放媻 | 整 | 埯 |
| C0 |  | 做 | 放歲 |  | 䐿 | 渍 | 芭 | 捌 | 扒执 | 扒听 | 叭吅 | 吧 | 箅 | 八 | 癃 | 侘 | 拨 | 拔 | 跋 |
| D0 | 靶 | 把 | 箸 |  | 坝 | 粼 | 罢 | 烍 | 自 | 白校 | 柏百 | 百 | 掕 |  |  | 放拜 | 拜稗 | 稗 | 矮 |
| E0 | 班 | 㜔 | 挷 |  | 般 | 颁 | 板 | 版 | 扮 | 扮伟 | 拌 | 伴 | 解 | 半 |  | 办绊 | 鈝邦 | 邦閨 | 帮 |
| F0 |  | 榣 |  |  |  |  |  |  |  |  | 傍 |  |  |  |  |  |  |  |  |

## B1XX

|  | 0 |  | 2 | 23 | 34 | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 㝘 | 珨 |  | 盉盖 | 盃笽 | 盓退 | 溫 | 盓 | 盛 | 塩 | 覑働 | 盜 | 㿿 | 蔮 | 敟 | 窝 | 裋 | 頨臨 | 監 |
| 50 | 盤 | 竟 |  | 亶琶 | 盟朝 | 整䉆 | 昷 | 含 | 頤 | 鳘 | 整盰 | 盰貯 | 昈 | 卧 | 䬧 | 均 | 勾 | 析賱 | 盻 |
| 60 | 䀘 | 文 |  | 明㫿 | 昍貯 | 眃 |  | 眆 | 眊 | 県 | 県㙒 | 眎睢 | 映 | 昰 | 烥 | 眒 | 呻 |  | 䍝 |
| 70 | 眕 | 几 |  | 䧁省 | 六瞩 | 眛想 | 昧 | 町 | 貪 | 㫝 | 瞅 | 眣盽 | 眤 | 省 | 昭 | 吸 | 两瞵 | 平 |  |
| 80 | 魷 | 眮 |  | 侄院 | 䧅眼 | － | 名 | 眴 | 䀫 | 暒 | 羘眽 | 瞃号 | 蜀 | 眿 | 㗜 | 陗 | 消䁘 | 1 | 䦽 |
| 90 | 堲 | 甠 |  | 暪曋 | 瞕䀣 | 晚睍 | 睍盽 | 睎 | 眯 | 睒 | 炎 | 晎睢 | 䀛 | 晼 | 崚 | 睗 | 易 |  |  |
| A0 | 眯 | 薄 |  | 坴保 | 保隹 | 䅅 | 饱 | 宝 | 抱 | 报 | 极星 | 暴配 | 卶 | 鲍 | 爆 | 杯 | 杯碑 | 碑 | 悲 |
| B0 | 卑 | 北 |  | 㱖背 | 背 | 贝铻 | 钡 | 倍 | 狈 | 备 | 备血 | 始 | 婄 | 被 | 奔 | 苯 | 苯 | 本 | 策 |
| C0 | 解 |  |  | 雨示 | 泵 | 蹦迷 |  | 逼 | 昇 | 比 | 比陶 | 郘笔 | 笔 |  | 䇉 | 蒈 | 花蔽 | 蔽 |  |
| D0 |  | 密 |  | 座 | 座瘨 | 廙 |  | 敏 | 慗 |  | 必辟 | 辟 | 壁嬖 |  | 避 | 限 | 隆靴 | 徒 |  |
| E0 | 䋦 | 见 |  | 扁便 | 便夜 | 変 | 市 | 墑 | 辩 |  | 炇遍 | 遍标 | 标㬉 | 彪 | 膘 | 表 | 表 | 筌 | 敗 |
| F0 | 别 |  |  | 彬斌 | 斌 |  |  |  |  |  |  | 水杬 |  |  |  |  |  | 唡 |  |

B3XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

85X

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

B6XX

|  | 0 | 1 | 2 |  |  |  |  | 6 |  |  |  |  | A | B | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 晹 | 祦 | 禕 |  | 粎 |  | 諦 |  | 槙 | 槙 |  | 槾 | f | 动 |  | 程 |  |  |
| 50 |  | 䜤 | 郜 |  | 軪礿 |  | 程 | 炡 | 䄍 |  |  | 禮 | 樘 | 袻 | 祼 |  | 䅋 |  |
| 60 | 䘽 | 柆 | 内 |  | ， | 秃 | 人 | 秄 | 和 | ， |  | 秈 | 季 | 烁 | 秎 | 䖽 | 秐 |  |
| 70 | 秃 | 䖽 | 秗 |  |  |  | 柀 | 税 | 秝 | 秝 |  | 秠 | 䅘 | 秢 | 秥 | 秨 | 牴 |  |
| 80 | 秬 | 䄸 | 秱 |  | 秲 |  | 秴 | 程 | 网穿 | 宷程 | 桎楀 | 椎 | 秷 | 秼 | 穖 | 科 | 稁 |  |
| 90 | 积 | 租 | 程 |  | 稉楀 | 年 | 稌 | 和 | 栓 | 榆種 | 桂 | 相 | 稓 | 稕 | 稖 | 程 |  |  |
| A0 | 楼 | T | 盯 |  | J |  |  | Hr | 枵铃 | 定定 |  | i． | 丢 | 东 | 冬 | 茓 |  |  |
| B0 |  |  | 侗 |  | 东 |  | 兜 | 抖 |  | 斗郊 |  | 豆 | 逗 | 痘 | 都 | 督 | 表 |  |
| C0 | 独 |  | 堵 | 睹 | 䣝 |  | 杜 | 锶 |  | ＋ | 度溏 | 渡 | 妒 | 端 | 短 | 䈅 | 段 |  |
| D0 | 统 | 堆 | 兄 | 队 | 队 |  | 墽 | 吨 | 䈅 | 学缹 |  | 顿 | 固 |  | － | 崌 | 撇 |  |
| E0 | 多 | 寺 | 垛 |  | 係 |  | 踩 | 解 |  |  |  |  |  | 樴 | 鸡 |  | 新 |  |
| F0 |  |  |  |  |  |  |  |  |  | 因 |  |  |  |  |  |  |  |  |


| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ | $F$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |






孜病并玻菠播拨钭波博勃搏铂箔伯帛
残謿惨奾苍舱仓沧藏操䎭梧曹草風策侧册测层跲插叉萑茶査䃊播察岔差诧


B2XX

|  | 0 | 1 | 2 |  |  |  |  |  |  | 8 | 9 |  | B |  | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 剓 | 飶 | 餢 | 喽 | 卷書 | 㑭䁘 | 琾 | 眿 | 睪 | 职 | 㢵 |  | 饉 | 諾 | 瞰 | 睲 | 造 | 析 |
| 50 | 域 | 暏 | 3 | 䀟 | 暚 | 㤨 |  | 堭 | 郹 | 嘖 | 倨 |  |  |  |  | 剂 |  |  |
| 60 |  | 㫛 |  |  | 責瞳 | 遧䀸 | － | 鸧 |  | 炽 | 挭 |  |  |  |  | 瞒 |  |  |
| 70 |  | 腺 |  |  | 酔臨 | 尞睌 | ， | 盼 | 範 | 眤 | 餷 | 睹 |  |  |  | 曖 |  |  |
| 80 | 瞼 | 咢 | 年 | 臥 | 近 | 貯 | 豖 | 㘧 | 矅 | 壦 | 幏 |  |  | 者 |  | 凉 | 瑱 |  |
| 90 | 礉 | 㫿 | 箇 | 瞠 | 書 |  |  | 婁 | 酸 | 瞜 | \％ |  |  | 阾裉 | 䓣 | 暞 | f |  |
| A0 | 族 | 病 | 并 |  | 破葠 | 菠 | 播 | 拨 | 钴 | 波 | 博 | ＋ | 持 | 溥 | 的 | 䈃 | 伯 |  |
| B0 | 舶 | 辟 | 膊 |  | 蚛泊 |  |  |  | 卜 | 哺 | 补 | 嬶 |  | 不 | 布 | 步 | 簿 |  |
| C0 | 佈 | 徖 | 猜 |  | 裁材 |  | 才 | 财 | 妳 | 箱 | 采 | 稆 |  |  | 蔡 | 嚮 | 参 |  |
| D0 | 残 | 朝 | 惨 |  | ¢ | ¢ | 能 | 仓 |  | 藏 | 操 | 㡈 |  | － | 曹 | 草 | 目 |  |
| E0 |  | 册 | 則 |  |  | 昭 |  |  | 行 | 茶 | 旦 |  |  |  | 察 | 岔 | 差 |  |
| F0 |  | 柴 | 射 |  |  |  |  |  | 渔 | 维 | 钓 |  |  |  |  | 昌 | 䛠 |  |

B4XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

B7XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## B8XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

B9XX

|  | 0 |  | 2 | 2 |  |  | 5 |  |  |  |  |  |  |  |  |  |  | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 答 |  | 第 | 笄笴 | 笴 | 笵 | 笑 | 笑 |  | 笹 | 第 | 笽 | 笿 | 箁 | 等 | 算年 | 侘 |  |  |
| 50 | 筆 | 管 | 等等 | 答年 | 筍 | 鳤 | 等 | 範 | 䇡得 | 箸 | 策 | 筜 | 楽 | 等 | 寺 |  | 利 | 筤 |  |
| 60 | 笎 | 筧 | 筧 |  | 第 | 笙 | 筫 | 筬 | 䓣 | 算 | 節 | 䈨 | 筳 | 笶 |  |  |  |  |  |
| 70 |  |  | 家管 |  |  |  | ， |  |  | 箇 |  | 捊 |  | ， |  |  | 选 | 等 |  |
| 80 | 策 |  | 箬 |  | 箖 | 䈅 | 䈨 | 第 | 俞年 |  | 镔 | 筧 | 箠 |  |  |  | 筊 |  |  |
| 90 | 等 |  | 筟 | 管 | 管 | 䈇 | 簮 | 䈅樃 | 答簼 | 䉒 | 键 | 镻 | 簐 | ， | 啁 | 管第 | 節 | 筀 |  |
| AO | 監 | 咉 | 硬耿 | 耿校 | 梗 | I | 攻 | 功 | 功 | 恭 | 烡 | 供 | 躬 | 公 | 公 |  | $弓$ | 巩 |  |
| B0 | 拱 |  | 荗 | 共 | 钧 | 勾 | 沟 | 号 | 苟 | 狗 | 坧 | 构 | 驹 |  | 弱睪 | 幸 | 菇 | 咕 |  |
| C0 | 估 | 沽 | 古 | 榬姑 | 姑 |  |  |  |  |  | 谷 | 役 | 故 |  | 䅡 | 固 | 展 | 刮 |  |
| D0 |  | 穿 | 挂 | 挂袆 | 社 | 乘 | 拐 | 攷 | 圣校 | 棺 | 关 | 官 | 冠 | 硍 | 观管 | 管馆 |  | 雄 |  |
| E0 | 先 |  |  |  | 广 |  | 瑰 |  |  |  | 硅 | 归 | 龟 |  |  |  | 鬼 |  |  |
| FO |  |  |  |  |  |  |  |  |  |  |  | 郭 | 固 |  |  |  |  | 哈 |  |

BBXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

BDXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

BEXX

|  | 0 |  | 2 |  |  | 5 |  | 7 |  | 8 |  | A | B | － | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 継 | 続 | 紿 | 綜 | 綜䊾 | 綞 | 垂紩 | 限線 | 彔 | 綡䊽 | 網 | 緒 | 需 |  | 綧 | 綨 |  |
| 50 | 緉 | 織 | 綬 | 維 | 雄䌊 | 綰 | 官緆 | 岡絃 | 罔緑 | 絴 | 綴 | 綵 | 䋛 | 稺 | 綸 | 給 | 綺 |
| 60 | 綻 | 綰 | 綽 | 綾 | 堎綿 | 緒 | 㙇䊼 | 建縑 | 緂絰 | 縱綰 | 緄 | 䌰 | 緆 | 細 | 緈 | 緉 | 䑐 |
| 70 | 緋 | 䋛 | 䌐 | 縝 | 或紀 | 街 | 緑 | 緑縑 | 澵絞 | 煐 | 綃 | 緕 | 緒 | 絧 | 緘 | 緯 |  |
| 80 | 線 |  | 維 | 組 | 行級 | \％ | 綡 | 綡䋨 | 緭緒 | 緹 | 缘 | 緑 | 繰 | 緦 | 綂 | 編 | 絞 |
| 90 | 緘 | 總 | 緬 | 網 | 周絾 | 緆 | 緰 | 俞＊ | 知絊 | 紷 | 晁 | 練 | 緑 | 綘 | 䋑 | 緒 | 緹 |
| A0 | 網 | 尽 | 劲 | 刑 | 咕蜆 | 菱 | 圭䁃 | 青㽞 | 㫛管 | 倞京 | 京 | 惊 | 精 | 粘 | 经 | 井 | 警 |
| B0 | 景 | 预 | 静 | 境 | 竟敬 | 镜 | 径 | 䍿侤 | 文竦 | 䞍 | 竟 | 竞 | 净 | 䙺 | 䆜 | 撖 | 究 |
| C0 | 纠 | 玖 | 䧳 | 久 | 人众 |  | 九酒 | 西 |  | 救 | 旧 | 田 | 男 | 各 | 就 | 疮 | 靽 |
| D0 | 拘 | 狙 | 疽 | 居 | 吕驹 | 菊 | 菊局 | 局䀰 |  | 矩 | 举 | 沮 | 聚 | 拒 | 据 | 巨 | 具 |
| E0 |  | 踞 | 锯 | 俱 | 具句 |  | 具炬 | 柜居 |  | 捐 | 鸮 | 娟 | 倦 | 眷 | 卷 |  | 挨 |
| F0 |  |  | 琚 |  | 圆蠋 |  |  |  |  |  |  | 菬 |  |  | 君 | 峻 |  |

BFXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

C0XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

C1XX

|  | 0 |  | 2 | 23 |  |  |  |  | 7 | 8 |  |  | B |  | D | E |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 囹 |  | 磫 | 罒睪 | 罣冝 | 宜 | 䍓 | 䍙 | 罣 | 茅 | 具 | 学 | 森 | 㬴 | 路 | 羂 | 易 |  |
| 50 | 明 |  |  | 罵眔 | 蜀罯 |  | 苻 | 箸 |  | 蜀 | 家 |  | \＃ | 积 | 最 |  |  |  |
| 60 | 䍢 | 鞋 | 䖲 |  | 溒 | 圱素 | 㲞䍩 | 靬 | 戓 | 爱 | 欮 |  |  | 䩔 |  |  |  |  |
| 70 | 茾 | 町 | 䍮 | 䍮䟠 | 找桎 | 景 | 解釬 | 紽 | 荡 | 義 | 羪 | 首䍩 | 施 | 詅 | 閏 | － |  |  |
| 80 | 拜 | 美 | 頖 | 㹲垟 | 㐭渞 | 碞 | 漓 | 眚 | 那 | 神 | 慟 |  |  | $\stackrel{8}{4}$ | \％ |  | 細 |  |
| 90 | 浐 | 披 | 翏 | 翏撸 | 詸 |  | 習 | 翢 | 号 | 知 |  |  | 擜 | 全荗 |  |  |  |  |
| A0 | 翌 | 制 | 立 | 立粗 | 粒 |  | 承 | 力 | 㠃 | 哩 |  |  |  | 通 |  |  | 廉 |  |
| B0 |  | 窝 |  | 脸 | 脸钕 |  | 恋㹸 | 炼 | 练 | 粮 | 京 | 京楽 | 采 | 良 | 良两 | 两 | 辆 |  |
| C0 |  | 亮 |  | 撩 | 撩輯 |  | 僚 | 疗 | 繚 | 宯 |  | 洨 |  | 挨 | 钽 | 录原 | 唐 |  |
| D0 |  | 裂 |  | 烈劣 | 劣 |  |  |  | 磷 | 霖 |  |  | 偬 |  |  |  |  |  |
| E0 | 拎 | 玲 |  | 菱需 | 零告 |  |  | 伶 |  |  |  |  | 的 |  |  |  |  |  |
| F0 |  |  |  | 硫 |  |  |  |  |  |  |  |  |  |  |  |  | 㤠 |  |

C3XX

|  | 0 |  | 2 |  |  |  |  |  |  |  |  |  |  |  | C |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 算 | 原 | 車残 | ＊ | 旡 | 3 | 肊 | 肌 |  |  | 图 |  |  |  | 肳 |  |  |  |
| 50 | 肐 | 胗 | 岎 | 肧 | 不 | 炜忶 | 肬 | 肰 |  |  |  |  |  | \％ | 宜 | 碞 | 阴 |  |
| 60 |  | ， | 胋 | 呀 | ， | 杜 | 胑 | 胒 | E | 紫 | 㘳椸 | 附 | 胘 |  | 胠 |  |  |  |
| 70 | 䏺 |  | 致育 | 腼 | 析 | 行 | 裁 | － | 袘 | 桃 | 狣脱 | 脕 | 腅郊 | 妿 | m | 析 | 寺 |  |
| 80 |  |  | 肳 | 水 | 拺 | 環 | 胉 | 䐧 |  |  | 脠 |  | 閑 |  | 脤 |  |  |  |
| 90 |  | 硣 | 备 | 朌 | 兌搰 | 脭㟲 | 腰 | 哣 | 豆脑 | 脑膅 | 䏦膱 | 険 | 利 | 脹 | 辟 |  |  |  |
| A0 | 脿 |  | 萝 |  |  | 首 | 报 | 忙 | 言 | 䔞猫 | 猫 | 茅 | 苗 | 毛 | 矛 | 铬 | 加卯 |  |
| B0 | 夏 | 陌 | 目琓 |  |  | ， | 致 | 枚 | 梅 | 梅酔 | 醇 |  | 煤 | 没 | 眉 | 媒 | 暏 |  |
| C0 | 美 |  | 末痳 | 妹 | 未 ${ }^{\text {妦 }}$ | 媚 |  | 肉 |  |  | 萌 |  | 柡场 | 盟 | 䦃 |  | 通 |  |
| D0 | 眯 | 䫱 | 街磷 | 穈 | 厡遜 | 迷 | 谜 | 弥 | 标 | 米秘 | 秘 |  | 㴶 | 虽 | 密 | 寺 | 柃 |  |
| E0 | 场 | 冤 | 崖免 | 勉 | 䞟娭 | 晚 | 组 | 面 | 臬苗 | 苗描 | 描䁧 |  |  | 秒 | 勆 | 庙 | 連始 | 橆 |
| F0 |  |  |  |  |  | 敏 |  | 風 |  |  |  |  |  |  | 命 |  | 挨 |  |

C5XX

|  | 0 | 1 | 2 | 3 |  |  |  |  |  |  | 9 | A |  |  | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 展 | 祠 |  | 炜 |  |  | 陼 | 陋 | 哏 | 腕 | 龺 | 行 |  | 稲 |  | 櫛 |  |
| 50 | 臨 |  | 臨 | 楽 | 咱 | 皇 | 家 | 泉動 | 自 | 盼 | 野 | 珞 | 珛 |  |  | 玨玍 | 璉 |
| 60 | 臽 | 畐 | 鳥 | 與 | 興 |  | 殚 | 蕓 | 唯 | 舎 | 故 | 啢 | 碭 | 埕 | 棪 | 哺 | 誧 |
| 70 | 受 | 稳 | 萃 | 舠 | 航 |  | 解艎 | 解艁 | 航 | 船 | 舨 | 舲 | 解 | 泣 | 其解 | 㳀艆 | 澪 |
| 80 | 稃 | 船 | 解 | 䦽 | 䑳 |  | 艆 |  | 䤼航 | 艒 | 艁 | 舶 | 般 | 脤 | 願 | 寺 | 2 |
| 90 | 积 | 䑶 |  | 䚚 | 艒 | 解 | 䄾解 | 綰 |  | 艁 | 榣 | 䧿 | 解 | 䅵 | 跌 | 戴我 | 艦 |
| A0 | 䋨 | 拧 |  | 生 |  |  |  |  |  | 浓 | 农 | 弄 | 奴 |  | 努 | 怒 | 女 |
| B0 | 虎 | 疟 | 䂈 | 檽 | 糃 |  | 唓 | 哦 | 欧 | 鸥 | 段 | 嬞 | 呕 | 偶 | 禺 | 区 | － |
| C0 | 退 | 帕 | 怕 | 琶 | 拍 |  | 排 | 牌 | 徘 | 秏 | 派 | 翌 | 畄 | 1 | ， | － | 盼 |
| D0 | 判 | 叛 | 岳 | 厐 | 旁 | 方 | 榜譄 |  | 扰 | 咆 | 刨 | 咆 | 袍 | 跑 | 过 | 泡 |  |
| E0 | 培 | 裴 |  | 陪 | 臬配 | 仵 | 呗沛 | 沛 | ， | 盆 | 砰 | 抨 | 亳 | 澎 | 彭 | 啀 |  |
| F0 |  |  | 继 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C6XX

|  | 0 | 1 | 2 | 3 |  |  |  |  | 7 | 8 |  | A | B | c |  | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 艚 | 艇 | 䐗 | 傀 | 樓葆 | 㜔 | 形 | 跑 | 歇 | 故 | 艻 |  | 芀 | 号 |  | 肌 | 艺 |  |
| 50 | 䓚 | 草 | 年 |  |  | 芋 | 菭 | 少 | 芙 | 芚 | 華 |  |  |  |  | 采 | \％ |  |
| 60 | 芙 | 芶 | ， |  | ， | 碞 | ， | 克 |  | \％ | 文 | 镆 |  |  |  | 苗 | 苙喊 |  |
| 70 | 北 | 草 | 苧 |  |  |  | 㐫 |  | 糼 |  |  |  | 是 |  |  | 茶 | 草 |  |
| 80 | 䒵 | 苼 | 碞 | 艺 | 芝 | 莱 | 弗 | 芹 | 荛 | 鸴 | 碞 |  |  | ， |  | 荔 | 戎 |  |
| 90 | 苗 | 華 | 休 |  | 缶列 | 列 | 莫 | 3 | 坴 | 茦 | 若 |  | 柰 | 嘆 |  | 荻 | 茷 |  |
| A0 | 㑛 | 㖵 | 研 |  | 很 | 皮 | 匹 | 痞 | 僻 | 厤 | 塈 | 篇 | 偏 | 片 |  | 偏 | 馷 |  |
| B0 | 歌 | 等 | 摘 |  |  | 拼 | 频 | 哯 | 品 | 摔 | 乒 | 坡 | 祘 | 率 |  | 平 | 凭 |  |
| C0 | 诗 | 井 | 坡 |  | 发 | 颇 | 素 | 破 | 餽 | 迫 | 粕 | 部 | 扑 | 铝 |  | 仆 | 戴 |  |
| D0 | 菩 | 莯 | 埔 |  | 朴 | 圄 | 普 | 浦 | 橧 | 港 | 瀑 | 期 | 欺 |  |  | 成 |  |  |
| E0 | 㜢 | 漆 | 黍穿 |  | 行 | 其 |  | 奇 | 歧 | 時 | 崎 |  |  | 施 | 其 |  |  |  |
| F0 | ， |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

C4XX

|  | 0 | 1 | 2 |  |  |  | 5 | 6 |  |  |  |  | A | B | c | D |  | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 脸 | 肵 |  | 果俦 |  | 䐁 | 滕 | 傣 | 委 |  | 腍 | 婜 | 瑶 | 倨 | 1 | 朆 |  |  |  |
| 50 | H | 膜 | 胉 |  | 隑 | 腡 | 1 | 3 | T | ， | 腦 | 腨 | 脼 | 炜 | 析 | 服 |  |  |  |
| 60 |  | ， | 腷 | 㹸 | 腸 | 膁 | 膃 |  | 碳 | 陣肨 | 媴 | 脠 | 樎 | 云 | 譄 |  |  | 蚯 | 薬 |
| 70 | F | 膓 | 嚆 | 脫 | 風 | 幃 | 3 | 䏽 | 閶 | 盧 | 腫 | 傽 | 膠 | 炜 | 3 | 脰 |  |  |  |
| 80 | 特 | 抍 |  | 茅服 | 䐅 | 䐓 | 偐 | 脂 | 煊脒 | 䊩 | 膕 | 膲 | 脽 | 脺 |  | 炜 |  | 過 |  |
| 90 |  | 䐳 | 澵 | 勧䐗 | 膿 | 臄 | 䐱 |  |  | 臈 | 臉 | 臨 | 膅 | 粨 | 胹 | 拺 |  | 臑 |  |
| A0 | 朖 | 萦 |  |  | 模原 | 膜 | 㡾 | 麻 | 等原 |  | 抹 | 末 | 莫 | 需 | 默 | 沫 |  | 漠 | 莫 |
| B0 | 陌 | 诣 | 年 | 年某 | 某 | 拇 | 牡 |  | ， | 成 | 母 | 墓 | 蓦 | 第 | 罴 |  |  | 木 | 目 |
| C0 | 睦 | 牧 | 䅣 | 告 | 景 | 哪 | 呐 | 钢 | 的那 | 那 | 㰲 | 纳 | 氛 | 万 | 奶 |  |  | 奈 |  |
| D0 | 男 | 难 | 部 | 考 |  |  | 㐫 |  | 周潧 | 淖吅 | 呢 | 偠 | 内 | 迷 | 能 | 妮 |  |  |  |
| E0 | 泥 | 尼 | 拟 | 你 | 你 | 匿 | 浐 |  | 逆 |  |  | 拈 | 年 | 震 | 掦 | 掊 |  |  |  |
| F0 | 配 |  |  |  | 捏 |  | 碓 |  |  |  |  | 濐 | 您 |  |  |  |  | 宁 |  |

C7XX

|  | 0 |  |  |  |  |  |  |  |  |  |  |  | B |  | D |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 |  |  |  |  | 蓉戔 |  | 荅 |  |  |  | 愛 | 收 | 媴 |  | 年俦 |  | 荖荠 |  |
| 50 | 荘 | 苵 | 达颠 |  | 草蝵 | 苼萀 | 范 |  | 壹 | 联 | 蜜 | 蒔 | 夢 |  |  |  |  |  |
| 60 |  | 莂 | 莂 | 苦黄 | 黄蔇 | 荕 | 葫 | 住 | 有 | 兌 | 事 | 承 | 尤 | 桼 | 蔵 |  | 苦 |  |
| 70 | 年 | 若 | 著莚 | 茟萑 | 莝菅 | 管完 | 莫真 | 只 | 意 | 酉 | 䢙 | 葹 | 莧 | 莬 | 蒐 |  | 男 |  |
| 80 |  | 莬 | 菟 | 聟 | 笄 | 苟的 | 的 |  | 菓䛃 | 茙 | 菬 | 某 | 嘍 | 荖 | 蔍 | 亚 | 菐 |  |
| 90 | 䓪 | 葉 | 菓茼 | 衡 | 䧃渵 | 菬茭 | 良 |  |  | 抱 | 臨 | 缶 | 近 |  |  |  | 寺 |  |
| A0 |  | 佮 | 合洽 | 合 |  | 71 | 轩钧 |  | 2 | 迁 | 鉒 | 任 | 谦 | 乾 | 是 |  |  |  |
| B0 | 前 | 潜 | 替道 | 造浅 | 垡 | 缹 | 暂矿 | 䒨 | 欠 | 欨 | 枪 | 呛 | 培 | 差 |  |  |  |  |
| C0 |  |  | 榡锹 | 秋喃 | 歒悄 | 悄材 | 桥䂂 |  | 乔任 |  | 工5 | 鞘 | 啪 |  | 峭 |  |  |  |
| D0 |  | 茄 | 䔩且 | 且佉 | 法窃 | 窃钦 | 保 |  |  | 生 | 翏 | 勤 | 芹 | 㩢 | 令 |  | 安 |  |
| E0 | 青 |  | 经氢 | 包 | 成 | 哏济 | 青第 | 短明 | 晴 |  | 情 | 顷 | 请 | 庆 | 琼 |  | 边 |  |
| F0 |  |  |  |  | 求区 | 囚酋 | 酋 |  |  |  |  |  |  |  |  |  |  |  |


|  | 0 | 1 | 2 | 3 | 4 |  | 5 | － | 7 | 8 |  | 9 | A | B | C | D |  | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 芖 | 雽 |  |  | 竟 | 珮 | 茶 | 芽 | 有 | 林 | 菻 | 菼 | 事 | 到 | 若 | 萂 |  | 管 | 萇 |
| 50 | 莧 | 范 | 茦 | 黄 | 莧 | 㙆 | 营 | 落 | 答 | － | 克 |  | 获 | 粼 | 并 | 渵 |  | 秋 | 萠 |
| 60 | 落 | 淢 |  |  | 漖来 | 料 | 萻 | 萬 | 萄 |  |  | 蕒 | 萰 | 菱 | 南 | 則 |  | 喏 | 著 |
| 70 | 芴 | 萵 | 管 |  | 菩 | 菬 | 落 | 落 | 艺 | 免 | ， | 葃 | 脽 | 蓢 | 菜 | 菜 |  | 葉 |  |
| 80 | 免 | 荷 | \％ |  | 蓠 | 蓒 | 薄 | 蓗 | 寺 |  |  | 蔥 | 荅 | 真 | 萑 | 朝 |  | 第 | 呈 |
| 90 | 萑 | 容 | 紶 |  | 莉 | 莘 | 勒 | 佼 | 萉 |  | 洨 | 药 | 佼 | 莫 | 蔵 | 荤 |  | 施 | 蓀 |
| A0 | 菜 | 取 | 崀 |  | 禹 | 趣 | 去 | 畋 | 兟 |  | 双 | 醛 | 泉 | 全 | 痊 | 拳 |  | 犬 | 券 |
| B0 | 劝 | 缺 | 炔 | 央属 | 病挂 | 却 | 鹊 | 権 | 确 |  | 雀 | 裙 | 群 | 然 | 炇 | 冉 |  | 梁 | 相 |
| C0 | 㙵 | 㩁 | 嗂 | 衰詯 | 让锐 | 饶 | 扰 | 绕 | 意 |  | 热 | 壬 | 仁 | 人 | 忍 | 韧 |  | 任 | ， |
| D0 | 刃 | 妊 | 红 | 执 | 扔1 | 仍 | 日 | 戎 | 華 | 克 | 䓖 | 荣 | 既 | 熜 | 洨 | 容 |  | 线 | 冗 |
| E0 | 揉 | 柔 | 肉 | 肉茹 | 茹 ${ }^{\text {里 }}$ | 蝡 | 儒 | 理 | 如 | 雨 | 年 | 乳 | 汝 | 入 | 袘 | 软 |  |  | 蓉 |
| F0 | 瑞 |  |  |  |  | 若 | 弱 | 撤 | 酒 |  |  | 㽢 | 䱏 | 塞 | 等 | 三 |  | 参 |  |

## C9XX

|  | 0 | 1 | 2 | 3 | 34 | 4 | 5 | 6 | 7 | 8 | 89 | 9 | A | B | C | D |  | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 茕 | 荇 | 㽞 | 萛䓝 | 蒀这 | 䒩 | 䒯 | 冠 | 薬 | 策 | 药 | 花 | 荡 | 莤 | 蒐 | 賄 |  | 隡 | 綪 |
| 50 | 陦 | 苗 |  | 真䄰 | 家 | 蓠 | 蓟 | 暮 | 雚 | 紷 | 荀 | 总 | 蒢 | 茶 | 除 | 菑 |  | 欴 | 或 |
| 60 | 萑 | 蓈 |  | 策蒔 | s． | 䆜 | 蒻 | 萑 | 般 | 蒱 | 浦葹 | 葹 | 菌 | 駕 | 費 | 鿓藷 |  | 希 | 蒾 |
| 70 | 蒋 | 营 |  | 苟湤 | 菬 | 慂 | 蒿 | 蓈 | 盖 | 药 | 蓡 | 落 | 嗬 | 鞛 | 蓠 | 程 |  | 䞗 |  |
| 80 | 菱 | 產 |  | 描串 | 宬直 | 荷 | 薯 | 落 | 蓢 | 萡 | 淩艮 | 蓀 | 薂 | 荔 | 蒾 | 苳 |  | 䔲 | 䓑 |
| 90 | 蓯 | 产 |  | 菏薪 | 茧 | 等 | 茟 | 淮 | 淮 | 淮 | 曾 | 渵 | 蓺 | 龩 | 華 | 䓪 |  | 蔀 | 葦 |
| AO | 繤 | 伞 |  | 放楽 | 桑吅 | 檪 | 表玝 | 抒 | 桭 | 㓈 | 当倳 | 嫂 | 瑟 | 色 | 涩 | 森 |  | 僧 | ， |
| B0 | 砂 | 杀 |  | 刹沙 | 沙 | 纱 | 侮 | 啥 | 赔 | 節 | 布㬉 | 晒 | 珊 | 苫 | 杉 | 山 | 那 | 那 | 蔔 |
| C0 | 榇 | 内 |  | 閑推 | 擅帰 | 晧 | 膁 | 善 | 汕 | 㞨属 | 局㕸 | 鲜 | 墑 | 伤 | 商 | 啇 |  | 晌 | 上 |
| D0 | 尚 | 裳 |  | 捎捎 | 捎 ${ }^{\text {f }}$ | 秢 | 烧 | 莈 | 勺 | 韶 | 韶少 | 少 | 哨 | 邵 | 绍 | 奢 |  | 䇴 | 蛇 |
| E0 | 舌 | 舍 |  | 漦振 | 摄 | 射 | 根 | ， | 社 | 土 设 | 行 | 确 | 申 | 唓 | 伸 | 电身 |  | 深 | 娠 |
| F0 | 绅 | 神 |  | 沋审 | 审 | 峬 | 勘 |  | 傎 | 潮 | 参声 | 声 | 生 | 甥 | 牲 | 升 |  | 克 |  |

CAXX

|  | 0 |  | 2 | 23 | 34 | 45 | 56 |  |  | 8 |  |  |  |  |  | D |  | E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 䓲 |  | 鋼 | 蘭塰 | 䓡真 | 蔇蓈 | － | 湮 | 蔇 | 㵄 |  |  | 萄 | 覄 | 蓠 | 書 | 茫 | 近 |
| 50 | 藘 |  | 薂㖘 | 敬芴 |  |  | 蔯 | 董 | 落 | 萦 |  | 蒋菏 | 蒵 | 薥 | 蔦 | 萑 | 萄 | 萄 |
| 60 | 龩 |  | 菭淢 | 葡蒱 | 萰 | 䓮 | 树 | 寛 | 萿 | 蕬 |  | 哉買 | 蕒 | 罍 | 萨 | 葹 |  | ＋ |
| 70 | 南 |  | 蔵 | 蔵㩐 | 蕇鿊 | 菭㖛 | 䓵 | 蔀 | 蓠 | 蕏 | 菲 | 菲闌 | 間 | 質 | 䓝 | 裔 |  | － |
| 80 | 蕗 |  | 箷 | 等戠 |  | 萀蘊 | 䔄缶 | 萄 | 薬 | 貝 |  | 鿓产 | 莨 | 雅 | 蘋 | 蕧 |  | 柕 |
| 90 | 董 |  | 䓪肃 | 萧蓋 | 萁蓇 | 荃菬 | 蒀和 | 程 | 蕳 | 葹 |  | 葹 | 㣱 |  | 茟 | 蕒 |  | 溒薀 |
| A0 | 茵 |  | 省盛 | 盛訝 | 剩㳀 | 陮圣 | 圣 | 师 | 失 | 狮 | 施 | 施湿 | 湿 | 诗 | 尸 | 式 |  | ＋石 |
| B0 | 拾 |  | H | 什食 | 食他 | 蚛实 | 实 | 识 | 史 | 矢 | 使 | 使屎 | 屏耴 | 㤤 | 始 | 式 |  | $\pm$ |
| C0 | 世 |  | 彻事 | 事拭 | 拭㱞 | 㱞逝 | 逝 | 势 | 是 | 喑 |  | 筮适 | 适 4 | 隹 | 侍 | 释 |  | 氏 |
| D0 | 市 |  | 寺室 | 室视 | 视试 | 试收 | 收菫 | 手 | 首 | 守 |  | 寿授 | 授官 | 售 | 受 | 癏 |  | 兽疏 |
| E0 | 枢 |  | 流殊 | 殊抒 | 抒䢂 | 输叔 | 叔 | 舒 | 淑 | 疏 |  | や | 赎溒 | 就 | 㠇 | 著 |  | 号書 |
| F0 | 署 |  | 蜀黍 | 黍 | 閶冨 | 属 |  |  |  |  |  | 或軗 |  |  |  |  |  |  |

CBXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  | 0 |  | 2 | 3 |  |  |  |  | 8 |  |  |  |  | c | D | － |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 䕶 | 䦗 | 蹃 | 薪 | 䫫 | 搖 | 暿 |  | 薬蓢 |  | 蔪 | 管 | 篗 | 解 | 衰 | 緎 | 蘐 |
| 50 |  | 蔽 | 㴰 | 碞 | 誰 | 緟 | 葫 | 茦䕀 | 葹絩 |  | 兗 | 葢 | 㭡 | 蔐 | 蒱 | 辈 |  |
| 60 | 檠 | 䦃 | 蓗 | 㢣 | 蘢 | 㙱 | 鸲 | 荋 | 茼薏 | 蕀 | 䓔 | 蕒 | 覽 | 胡 | 蘭 | 暗 | 緼 |
| 70 | 薪 |  | 欴 | 程 | 蓸 | 蘭 | 絩 | ＋ | 䈁校 |  | 喏 | 䋥 | 真 | 㫫 | 蕹 | 㩐 |  |
| 80 | 靕 | 蔵 | 萄 | 踷 | 蕂 | 真 | 徵 | 䍞 | 誰碞 |  | ， | 溇 | 能 | 凩 | 脆 | 感 | 早 |
| 90 | 虐 | 盧 | 虔 | 虚 | 成 | 魅 | 䟭 | 兗 | 䖊 |  | 硞居 | 献 | 罭 | 㖣 | 騳 | 䖊 | 暔 |
| A0 | 楾 | 猴 | 扰 | 踢 | 踏 | 胎 | 菩 | 著抬 | 台台 |  | 泰 | 洶 | 太 | 态 | 汰 | 㘫 |  |
| B0 | 贪 | 痽 | 滩 | 坛 | 檀 | 痰 | 潭 | 草 | 谈 |  | 坦㲎 | 毯 | 祖 | 碳 | 探 | 叹 | 炭 |
| C0 | 汤 | 嘈 | 搪 | 堂 | 棠 | 膛 | 唐 | 䊑 | 部僻 |  | 䊑 | 洞边 | 趟 | 核 | 掏 | 湮 |  |
| D0 | 绦 | 萄 | 桃 | 逃 | 淘 | 陶 | 讨 |  | 全特 |  | 藤 | 腾 | 疼 | 誩 | 梯 | 剔 | 踢 |
| E0 |  | 提 | 题 | 蹄 | 啼 | 体 | 替 | 喘 | 宣㛫 |  | 弟 | 剔 | 屌 | 天 | 添 | 填 | 田 |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

CDXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## CEXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

CFXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :---: | :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| Doxx |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 |  | 2 | 23 | 34 | 45 |  | $6 \mid 7$ |  | 819 | 9 A | A B | C | D | D | F F |
| 40 | 算 |  |  | 䋠素 | 嘉稊 | 罭薩 | 薩曈 |  | 㪇緒 | 䌬偫 |  | 教䖍 | 备㖪 | 部輿 | 音㡎 | 楆蠸 |
| 50 | 蜽 |  |  | 蜼蠸 | 蠸奀 |  |  | 䍌戠 | 笏 | 㻇皿 | 皿虾 | 㳔虾 | 坏衆 | 象姫 | 洨场 | 场蛒 |
| 60 | 䟵 |  | 豆行 | 行行 | 法御 | 街楊 | 衙徍 | 街術 | 術街 | 衏樭 | 侀街 | 街街 | 開街 | 䢒麺 | 面衝 | 衝衞 |
| 70 | 恧 |  | 衡衦 | 礽杆 | 杆䄍 | 枸初 | 袂袘 | 枌初 | 衱袿 | 松初 | 视祖 | 祖神 | 种 | 的衹 | 低 | 衰 |
| 80 | 初 | 被 | 被矢 | 絇域 | 翌神 | 讳初 | 淘祀 | 柁裸 | 袊 | 裡 | 株枌 | 桂䄈 | 辨袑 | 相 | 祖袔 | 碞 |
| 90 | 袗 |  | 施袖 | 袙裓 | 袚社 | 砤相 | 村公 | 衰褀 | 袟 | 衰神 | 袖裡 | 媢祏 | 研裸 |  | 竘袨 | 㹡祜 |
| A0 | 祛 |  | 小孝 | 孝校 | 校肖 | 肖吸 | 徚笑 | 笑效 | 效相 | 椥些 | 些歌 | 欨蜴 | 遇鞋 | 䅅协 | 协抰 | 抰携 |
| B0 | 邪 |  | 狳胁 | 胁谌 | 诸写 | 写椸 | 械缶 | 卸 |  | 獬泄 | 泄泻 | 泻谢 | 时屑 |  | 嘲芯 | 芯 |
| C0 | 欣 |  | 辛新 | 新䛂 | 析心 | 心信 | 信衄 | 科星 | 星拺 | 腥程 | 瑆惺 | 煋兴 | 刑 | 刑型 | 型形 | 形邢 |
| D0 |  |  | 醒幸 | 幸杏 | 杏性 | 性姓 | 姓 | 兄 | 凶胸 | 胸自 | 四汹 | 汹雄 | 推旗 | 傽休 | 休修 | 疹差 |
| E0 | 朽 |  | 喠锈 | 锈秀 | 秀裡 | 袖级 | 绣垠 | 墟成 | 成 | 需震 | 虚持 | 嘘须 | 倹徐 | 余许 | 许辤 | 蓄酷 |
| F0 |  |  | 旭序 | 字畜 |  | 侐部 |  | 城绪 |  |  |  | 宣宣 |  |  | 族玄 | 玄 |

D2XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



## D6XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 䛴 | 詮 | 諦 | 諧 | 詔 | 憬 | 詝 | 諫 | 㙙 | 険 | 諮 | 䛔 | 潩 | 諱 | 諚 | 諳 |
| 50 | 諴 | 諵 | 諶 | 諴 | 諸 | 场 | 棓 | 㘿 | 敩 | 諽 | 諾 | 諿 | 䍗 | 謁 | 潩 |  |
| 60 | 膗 | 䛬 | 䚺 | 暑 | 謉 | 䓵 | 誏 | 䛴 | 营 | 謎 | 䚳 | 㜮 | 謑 | 桷 | 謓 | 謔 |
| 70 | 誐 | 謾 | 謗 | 䛭 | 謙 | 諡 | 講 | 謜 | 桷 | 謞 | 熘 | 詻 | 揺 | 護 | 㘼 |  |
| 80 | 标 | 唿 | 謧 | 謨 | 典 | 謫 | 謫 | 謬 | 境 | 䜋 | 諕 | 誰 | 謱 | 誃 | 記 | 只 |
| 90 | 話 | 梳 | 警 | 買 | 讙 | 噾 | 誃 | 圱 | 翌 | 謾 | 話 | 竐 | 誥 | 毣 | 噳 | 譮 |
| A0 | 涨 | 晫 | 症 | 矨 | 证 | 芝 | 枝 | 支 | 吱 | 蛛 | 知 | 肢 | 脂 | 汁 | 之 |  |
| B0 | 职 | 直 | 植 | 殖 | 执 | 值 | 侄 | 址 | 指 | 止 | 趾 | 只 | 旨 | 纸 | 志 |  |
| CO | 㖵 | 至 | 致 | 置 | 帜 | 峙 | 制 | 智 | 秩 | 稚 | 质 | 卷 | 痔 | 滞 | 治 | 空 |
| D0 | 中 | 盅 | 忠 | 钟 | 表 | 终 | 种 | 肿 | 重 | 仲 | 众 | 舟 | 周 | 州 | 洲 | 消 |
| E0 | $3{ }^{4}$ | 轴 | 肘 | 帚 | 咒 | 艮 | 宙 | 㫛 | 騡 | 珠 | 株 | 蛛 | 朱 | 猪 | 诸 | 诛 |
| F0 | 逐 | 竹 | 烛 | 者 | 挍 | 策 | 吻遈 | 主 | 書 | 柱 | 助 | 蛙 | ${ }^{2}$ | 铸 | 筑 |  |

D1XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 78 | 89 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 兗 | 妳 | 袏 | 雯 | 表蓑 | 袳 | 多褚 | 夸袵 | 任禅 | 䙜䄈 | 裉 | 袹 | 祮 | 树 | 梅 | 袾 | 衤 |
| 50 | 䙡 | 袮 | 桁 | 行祖 | 标 | 戓 | 踙䄈 | 豆衭 | 挟裥 | 裍裏 | 裏 | 祦 | 裑 | 棫 | 称 | 裗 | 翌 |
| 60 | 旁 | 補 | 装 | 祱 | 兄晨 | 裡 | 洼衰 | 窒裧 | 棪裡 | 襙袘 | 䘩 | 襯 | 裬 | 嫃 | 祸 | 裯 | F |
| 70 | 复 | 裶 | 棬 | 裡 | 菽 | 製 | 製裿 | 埼禃 | 棋坴 | 墨䄈 | 祅 | 裱 | 褅 | 徥 | 複 | 禈 |  |
| 80 | 䙡 | 䙎 | 褌 | 袻 | 耑莀 | 良硕 | 覀褑 | 杵 | 福福 | 祬袻 | 䄓 | 䋗 | 禕 | 嵅 | 褝 | 祖 | 析 |
| 90 | 褠 | 㯻 | 祰 | 禂 | 袁絍 | 裚 | 褮褨 | 差褩 | 軗䙎 | 襙㟳 | 表 | 笠 | 祍 | 褒 | 褲 | 䘤 | 相 |
| A0 | 襍 | 选 | 﨡 | 眩 | 玄细 | 靴 | 化薛 | 葹学 | 学穴 | 穴雪 | 雪 | 血 | 勋 | 董 | 循 | 旬 | 询 |
| B0 | 寻 | 3 | 還 | 殉 | 旬汛 | 训 | 㺫讯 | 讯㷟 | 䦽 | 迅 | 压 | 押 | 鸦 | 鸭 | 呀 | Y | 芽 |
| CO | 牙 | 䄰 | 序 | 衙 | 街涯 | 圭雅 | 雅嘅 | 亚亚 | 亚讶 | 讶不 | 駡 | 咽 | 㫣 | 烟 | 淹 | 盐 |  |
| D0 | 研 | 䡽 | 沯 | 延 | 立 | － |  | 匀炎 | 炎沿 | 沿奄 | 奄 | 掩 | 眼 | 衍 | 演 | 挣 | 殹 |
| E0 | 燕 | 厌 | 砚 | 兄庣 | 唯喽 | 彦 | 彦始 | 各室 | 宽㜔 | 晈验 | 验 | 殃 | 央 | 空 | 秧 | 杨 | 弱 |
| F0 | 佯 | 疡 | 羊 | 洋 | 羏阳 | 氧 | 氧仰 | 仰瘁 | 庠养 | 养样 | 样 | 漾 | 邀 | 䙅 |  | 㻿 |  |

D3XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 嫢 | 䂓 | 院 | 顛 | 親 | 覧 | 筧 | 䚇 | 親 | 䫓 | 覬 | 䂓 | 筧 | 梘搆 | 䚌 | 顔 | 堹 |
| 50 | 覲 | 钼 | 親 | 闃 | 䚑 | 覤 | 枟 | 相 | 覺 | 是 | 䣯 | 覧 | 管㜔 | 覞 | 晛 | 覨 | 建 |
| 60 | 㖵 | 㓩 | 孧 | 槲 | 觝 | 颜 | 解 | 的 | 觝 | 㦃 | 檞 | 觡 | 各䉒 | 的 | 解 | 解 | 咏 |
| 70 | 觮 | 解 | 䬧 | 觭 | 䝧 | 鯺 | 霓 | 觧 | 觫 | 艁 | 解 | 辎 | 务觸 | 易鸸 | 㐌 | 算 |  |
| 80 | 梂 | 觼 |  | 沲 | 觸 | 言 | 訂 | 訃 | 发 | 訅 | 計 | 計 | † | 誂 | 訊 | 訋 | I |
| 90 | 設 | 討 | 訏 | 訐 | 訑 | 訷 | 訓 | 訔 | 訕 | 訖 | 託 | 記 | 己䚿 | 間 | 同 | 誂 | 碞 |
| AO | 訝 | 印 | 英 | 棲 | 㮃 | 鹪 | 应 | 暥 | 芗 | 走 | 营 | 炎 | 蚝 | 毝 | 迎 | 䇉 | 盛 |
| B0 | 影 | 歌 | 硬 | 映 | 啲 | 拥 | 佣 | 嗬 | 痛 | 庸 | 雍 | 踊 | 甬蛹 | 㖇 | 兂 | 泳 |  |
| C0 | 永 | 䢛 | 甬 | 用 | 幽 | 优 | 悠 | 优 | 尤 | 由 | 訨 | 针 | 由犹 | 訧 | 油 | 游 |  |
| D0 | 有 | 友 | 右 | 佑 | 馃 | 诱 | 又 | 又幼 | 迁 | 湤 | 干 | 孟 | 孟榆 | 相 | ， | 思 |  |
| E0 | 余 | 俞 | 逦 | 鱼 | 㡏 | 涾 | 䍇 | 隅 | 予 | 娭 | 雨 | 与 | 与路 | 聥 | 禹 | 宇 |  |
| F0 | 羽 | 玉 | 域 | 芼 | 郁 | 吁 | 遇 | 喻 | 峪 | 御 | 愈 | 欲 | 猚 | A | 育 | 誉 |  |

D5XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

D7XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

D8XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

D9XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

DAXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

DBXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

DCXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 玩 | 眮 | 艮 | 蹸 | 踤 | 跣 | 踤 | 蹽 | 政 | 頙 | 路 | 群 | 䫟 | 躆 | 部 | ＝ |
| 50 | 蹈 | 踦 | 銘 | 嚁 | 踫 | 瑯 | 䠝 | 㒭 | 啕 | 踾 | 違 | 践 | 䀎 | 䠰 | 賃 | 關 |
| 60 | 宸 | 筫 | 噉 | 䠒 | 球 | 雐 | 䠞 | 碞 | 踉 | 跙 | 吅 | 葹 | 㚭 | 身分 | 呀 | 深 |
| 70 | 躳 | 躴 | 覕 | 集 | 躷 | 邪 | 躳 | 箜 | 閚 | 戓 | 嵄 | 慷 | 軀 | 䅹 | 䄰 |  |
| 80 | 䧸 | 軄 | 檪 | 軆 | 躳 | 躴 | 䪵 | 車 | 軋 | 乾 | 軍 | 䡚 | 䡏 | 㣏 | 軒 |  |
| 90 | 軾 | 軥 | 堭 | 乹 | 軘 | 䡈 | 䡍 | 䡛 | 軜 | 徝 | 軞 | 軟 | 軒 | 彰 | 䎐 | 塞 |
| AO | 軞 | 堋 | 堍 | 埽 | 埭 | 堀 | 薬 | 堙 | 塄 | 埃 | 塥 | 塬 | 墁 | 麻 | 墚 | 蝺 |
| B0 | 謷 | 銬 | 䍍 | ＋ | 艽 | 芹 | 芏 | 芉 | 著 | 芙 | 菷 | 芑 | 芕 | 芙 | 㪇 | 芸 |
| CO | 蒂 | 笠 | 雱 | 危 | 管 | 比 | 㱏 | 芮 | 荧 | 长 | 庆 | 芩 | 芴 | 苂 | 苠 | 发 |
| D0 | 筞 | 夽 | 或 | 故 | 葉 | 莫 | 䒩 | 龙 | 荠 | 首 | 苴 | 苸 | 需 | 萑 | 苻 | 令 |
| E0 | 茅 | 印 | 茆 | 至 | 军 | 压 | 药 | 莤 | 薬 | 范 | 阵 | 茈 | 莒 | 茴 | 茴 | 䒩 |
| F0 | 莛 | 䓫 | 茯 | 荏 | 荇 | 荃 |  | 荀 | 茗 | 荠 | 茭 |  | 注 |  |  |  |

DDXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

DEXX

|  | 0 | 1 | 2 | 3 | 4 | 45 | 5 | 6 | 7 | 8 | 9 |  | B | C | c | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 溒 | 㫫 | 轠 | 䡴 | 讙 | 朢 | 喗 | 轎 | 霾 | 輷 | 臹 | 軾 | 覱 | 析 | 轑生 | 䡩 | 輠 | 轔 |
| 50 | 輵 | 粹 | 䡚 |  | 轎 | 域 | 罊 | 䡛 | 輭 |  | 輷 | 露 |  |  | 製 | 蝶 | 檍 | 暒 |
| 60 | 䩞 | 软 | 盘 |  | 輬 | 輅 | 辝 | 易 | 普 | 辛粹 | 碞辛 | 韩 | 墇辦 | 執 | 謺 | 觟 | 熎 | 鿷 |
| 70 | 解 | 䍌 | 農 |  | 展 |  | 足 | i－ | 辺 | 了辺 | 辻 | 込 | ， | 这 | 迁 | 运 | 迆 |  |
| 80 | 迟 | 迎 | 迋 |  | 週迕 | 进 | 达 | 迒 | 达 | 达 | 迚 | 迠 |  |  | 迣 | 连 | 违 | 遂 |
| 90 | 迱 | 迲 | 迵 |  | 迥 | 迶 | 酒 | 迬 | 週 | 逐 | 蚼 | 边 | 逈 | 自䢘 | 迠 | 逎 | 迷 | 逵 |
| A0 | 送 | 県 | 筳 |  | 筞 | 落 | 薥 | 草 | 蔽 | 蓢淢 | 萓 | 棫 | 伐 | 亲 | 華 | 蓈 | 嘱 | 莨 |
| B0 | 愛 | 㟨 | 营 |  | 萑 | 蒓 | 薜 | 藻 | 菐 | 䓣 | 薫 | 鲜 |  | 殔袁 | 萦 | 蓷 | 蓮 | 御 |
| C0 | 藂 | 薬 | 构 |  | ＋ | 杪 | 布 | 交 |  | 奕 | 觅 |  |  | 包 | 九 | 尤 | 施 |  |
| D0 | 者 | 扣 | 抟 |  | 押挰 | 拊持 | 倳 | 劸 | 拮 | 吉抙 | 橓 | 挨 | 缷 | 洔 | 捃 | 㯃 | 那 | 捱 |
| E0 | 捺 | 掎 | 诚 |  | 抯肳 | 㣫 | 掊 | 㨝 | 摒 | 湤掑 | 揲 | 枼㨁 | 查掏 | 龶 | 敬 | 掍 |  | 橧 |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

DFXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| E0XX |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 |  | 12 | 23 |  |  |  | 6 |  | 8 |  | A | A B | C | c D | D E | E F |  |
| 40 | 郂 |  | 部 | 郆 | 殷 | 那 |  | 場 | 舶 | 饖 | 衡 | 梂 | 都區 | 部 | 郘郙 |  | 部郎 | 郎 |
| 50 | 知 |  | 郎報 | 誫 | 郤 | 郥 | 都 | 都 | 都 | 䣅 | 耶 | 㥢 | 軻籿 | 新䧟 | 姫郵 | 冓姯 | 晹既 | 㺺 |
| 60 |  | 姐 | 閏部 | 部斋 | 傽 | 唇 | 䒠 | 能 | 鲉 | －陼 | 烸 | － | 郑 | 剠郎 |  | 紈教 | 矨 | 甥 |
| 70 | 椇 |  | ， |  | 鄐 | 部 | 膓 | 为 | 郎 | 鄉 | 郥 | 部 | 鄆䂙 | 陠鄚 | 鄚墅 | 战 | 觑 |  |
| 80 |  |  | 杨駺 | 䣕 | 䳡 | 歌 | 邲 | 勧 | 部 | 『笅 | 喭 |  | 第郎 | 的酸 |  |  | 部顛 | 相 |
| 90 | 鄲 |  | 黒 | 搂 | 岈 | 險 | 部 | 眧 | 樀 |  | 兟 | 獻 | 部啕 | $4{ }^{4}$ | 茦基 | 或建 | 值 |  |
| A0 | 酄 |  | 洽喊 | 啖榢 | 破 | 啶 | 啷 | 啒 | 哵 | 敌 | 僷 | 菜嗒 | 嗒喃 | 甫哩 | 哩啈 | 隍㖧 | 喈哩 | 喁 |
| B0 | 喵 |  | 䅋哂 |  | 喑 | 曾 |  | 喽 | 乽 | 喔 | 喙 | 唓溙 | 泰噭 | 敏嗉 | 嗉蔀 | 部㖫 | 嗑 | 僉 |
| C0 | 㺃 |  | 呚啺 | 嗦 | 嗝 | 嗄 |  | 䊀 | 哆 | 嗳 | 检 | 隣 | 部陑 | 矿樋 | 通噌 | 録街 | 街 | 格 |
| D0 | 畨 |  | 票诚 | 诚 | 噯 | 揓 | 嗾 | 嘀 | 喀 | 㴾 | 物 | 嘹 | 嶛噗 | 㖘 | 嘬噍 | 噍浐 | 噢 |  |
| E0 | 嚕 |  | 噌哄 | 噔洎 | 駕 | 㩰 | 嗔 | 傹 | 壕 | 雅 | 停 | 嚓 | 檫嚯 | 倳喠 | 襄口 | 口 ${ }^{\text {a }}$ | 目国 | 囷 |
| F0 |  | 图 | 图 | 图 | 固 | 园 |  | 園 | 國 | 帏 | 帙 | 俄 | 被帑 | 婜生 | 效㓐 | 陵謿 | 帽 |  |

## E1XX

|  | 0 | 1 | 2 | 3 |  |  |  |  | 7 | 8 | 9 | A | B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 厒 | 䢸 | 㺃 | 踊 | 合 | 合 | 䣶 |  | 唒 | 酸 | 酙 | 配 | 元䣨 | 㭬 |  | 柯醇 |  |
| 50 | 裁 | 酫 | 酭 | 有䤙 | 酤 | 輔配 | 侕 |  | 醀 | 酹 | 酰 | 眺 | 莫酛 | 酸 | 堶 | 醍 |  |
| 60 | 酹 | 酷 | － | 硐 | 醇 |  | 兓 | 噱 | 酮 | 既 | 砤 | T |  |  |  | ， |  |
| 70 | 酴 | 酤 | ， | ， | 通 | ， | a |  | 酸 | 紿 | 的 | 鍰 | 的 | 跔 |  | 碝 |  |
| 80 | 酫 | 䊩 | 酸 | F | 酸 | 5 | 5 | 䀖 | 罭 | 醇 | 蝔 | 米 | 积 | 粡 |  | － |  |
| 90 | 釷 | 釬 | 钬 | 釗 | 轎 | T 釷 | 銨 | 㘯 | 釛 | 針 | 偩 | 鏳 | 鎵 |  |  | 㾂 |  |
| A0 | 釙 | 帷 | 哣 | 围昒 | 最暗 | 章胦 | 嵠㠸 | 幡 | 苃 | 屺 | 岍 | 开岐 | 岵 | 砋 |  | 哯 |  |
| B0 | ${ }^{1}$ | ¢ | 钴 | 古哥 |  |  | 岬 | 䌷 | 岱 | 岣 |  | 崕 | 峰 | 夆瀶 |  |  |  |
| C0 | 厒 | 悚 | 空 | 渪㟓 |  |  | 1 |  | 垸 | 崛 | 岈 |  | 噱 |  |  | 鬼 |  |
| D0 | 喽 | 橃 |  | 剓 |  | 峄 |  |  | 嶙 | 嶝 | 这 | 疑 |  |  |  |  |  |
| E0 | 徉 | 後 | 浐 | 御 | 䞗故 | 洤得 | 彺 | 䍌 | 徵 | 徵 | 等 | 三 |  |  |  | 的 |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


|  | 0 |  | 2 |  | 34 |  | 516 | 6 | 78 |  |  |  | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 鋁 | 䤠 | ， | 鐑 | 飲釬 | 粎 |  | 玕鋎 | 行鉸 |  |  | 钬 | 釱 | 鍵 | 部 |  | 鋷 |
| 50 | 䊶 | 紶 | 土 鉹 | 外鉸 | 效浐 | 行鉄 |  | 㚫䥡 | 軘钽 |  | 䉼絾 | 緦 | 鈁 | 鈍 | 部 | 錻 | － |
| 60 | 鈆 | 鉄 | 立钚 | 杯鈉 |  | 30 | 叱倍 | 軮鈍 | 鈍鈞 |  | 弱銫 | 鈴 | 鈑 | 鈒 | 珃 | 鋿 | 鈃 |
| 70 | 嫊 |  | 鈘 | 䚳敛 |  | 社鈛 | 剗鍷 | 迲鈝 | 鈝鈞 |  | 凩鋨 | 嵃 | 釬 | 鈢 | 較 | 納 |  |
| 80 | 鉄 | 鈦 | 大銑 | 鈨 | 䊺釬 | 舸酛 | 效鈫 | 铱欽 | 欽盐 |  | 記鍅 | 絀 | 鈍 | 㼬 | 䊽 | 铜 | 瑇 |
| 90 | 羬 | 鉿 | 鉿鈷 | 咕鉸 | 䥽钴 | 䚳釬 | 新銅 | 铝鍎 | 鈼唓 |  | 䊽 |  | 鉀 | 鈴 | 錠 | 鉃 | 鉄 |
| AO | 鉅 | 拨 | 荃猗 | 奇猓 | 淉》 | 罗阮 |  | 捨㮦 | 猝㢶 |  | 胡 | 洗 | 眈 | 猜 | 猚 | 椂 | 獐 |
| B0 | 獍 |  | 政倳 | 潦獋 | 䍮㙢 | 珪猫 | 獾列 | 竍䎪 | 影施 |  | \％ | 久 | T | 场 | 饨 | 穴 |  |
| C0 | 饮 | 饬 | 㘯 | 湤 | 泊 | 综第 | 筌曒 | 棹 | 塭鲮 |  | 漠馆 |  | 馑 | 敂 | 饼 |  | 㢆 |
| D0 |  | 度 | 度痛 | 包庥 | 庥庠 | 羍庶 | 宾皆 | 尞瘼 | 実庫 |  | 貭 | 倣 | 星 | 廅 | 栍 |  | 最 |
| E0 | ＋ | 切 | 加村 | 杆 | 千怀 | 无忮 | 支怄 | 性什 | 仲忤 |  | ¢ |  | 怆 | 伀 | 柿 |  | 估 |
| F0 |  |  |  |  |  |  |  | 弗怊 |  |  |  |  | 䏓 |  |  | 侚 |  |


| E3XX |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 |  | 2 |  | 4 | 45 | 516 | 67 | 78 | 819 | A | A B | B C | D ${ }^{\text {D }}$ | D E | F |
| 40 | 絬 |  | 鉈 | 軥鉸 | 玄鉊 | 昭鉋 | 鉋鏫 | 铩鈫 | 鉸鉎 | 性銅 | 目鉐 | 磛鉑 | 鲌鏟 | 往飾 | 谼施 | 而 |
| 50 | 鉖 | 鉗 | 鈃 | 肃铞 | 只鉚 | 制鉛 | 铅鉜 | 榇鉸 | 鉝錐 | 鐡䬲 | 还鉄 | 鉄铎 | 鲜鐇 | 縺鉣 | 怯銆 | 旬鈛 |
| 60 | 鉦 | 鉽 | － | 家鈖 | 佺镄 |  | 縕鉬 | 钼铜 | 伹鉬 | 钤鋁 | 钆銅 | 鉰鏣 | 鎕銖 | 景敛 | 此鉵 | 螹 |
| 70 | 鉄 | 铰 | 交鉹 | 垑銅 | 耳 鉻 | 路鉼 | 鉼鉽 | 鉽銑 | 銯鈴 | 鉿鋠 | 銀铇 | 钧絒 | 洲銃 | 珫馆 | 姠銅 | 同 |
| 80 | 㬼 | 綀 | 戈鉎 | 迋銭 | 律䤦 | 哏誰 | 淮锗 | 娔釭 | 銍算 | 钘缶 | 知銑 | 銑䋑 | 洌釭 | 迬铗 | 呠銕 | 束銖 |
| 90 | 鉿 | 銘 | 铑 | 徬銧 | 銛 | 話荃 | 衖锺 | 䢒筌 | 翏鉘 | 鉓銠 | 誰铝 | 結韵 | 逐鉫 | 効銤 | 锞鉸 | 去 |
| A0 | 銧 | 佫 | 恽 | 军㮦 | 性 | 束览 | 坚性 | 埋倠 | 個俋 | 唈悌 | 弟悛 | 发殹 | 殹悻 | 啈排 | 俳嗄 | 焹 |
| B0 | 椆 | 圽 | 倅 | 卒榅 | 而愦 | 嵒伝 | 标惯 | 楞㭻 | 㟨假 | 俛㮢 | 跟愫 | 㣀健 | 浄侓 | 萧憬 | 倞憔 | 慬 |
| C0 | 模 |  | 㒂 | 售忝 | 忝照 | 篂户 |  |  | 闱沮 | 風闵 | 闵问 | 闵闽 | 因 | 间闰 | 同闵 | 间 |
| D0 | 咸 | 间 | 國 | 囫䧄 | 䦡 | 圆閝 |  | 闾䀢 | 閣圆 | 國䦭 | 闻閶 | 圆阙 | 阙 | －${ }^{\text {H }}$ | 句戕 | 浅 |
| E0 | 汽 | 汇 | 汉 | 湤 | 沅 | 远沐 | 林唡 | 河沌 | 沌油 | 泪沮 | 日洨 | 市汶 | 洨流 | 沩 | 为恸 | 湈 |
| F0 | 沭 |  | 沾 | 㵀 | 泱 | 四沲 | 沲泠 | 泠睍 | 测河 | 胨洨 | 玄泮 | 湤 | 沱泓 | 弘泯 | 泿㳗 |  |

E4XX

|  | 0 | 1 | 2 | 3 |  |  | 5 6 | 6 | 7 | 8 | 9 |  | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 銨 | 絺 | 銌 | 銫 | 色飶 | 考鏤 | 钱部 | 銯 | 敛 | 䬼 | 堹 | 碞 | 唼 | 釾 | 録 | 銷 | 鏗 |
| 50 | 綉 | 蓗 | 銻 | 銑 | 徃鐕 | 狧餄 | ， | 絆 | 鉦 | 鋁 | 鍗 | 鋶 | 鋖 | 鍄 | 筌 | 鋇 | 詅 |
| 60 | 䌊 | 鋌 | 脜 | 鍒 | 銑鋎 | 院鍅 | 鉄絡 | 緘 | 镪 | 鋒 | 雉 | 䭒 | 銡 | 錗 | 鍋 | 鏴 | 銅 |
| 70 |  | 培 | 鋜 | 鉃 | 錐 | 䦽銓 | 棈 ${ }^{\text {e }}$ | 鍄 | 鉿 | 好 | 鈟 | 紅 | 艎 | 銅 | 鋧 | 鐿 |  |
| 80 | 銰 | 鋪 | 䅅 | 誓 | 㰸 | 㒭䤠 | 战 | 兟 | 鍾 | 埕 | 鋲 | 錆 | 餃 | 敘 | 艈 | 敏 | 鋸 |
| 90 | 鋠 | 鋧 | 監 | 龬 | 銧 | 乾 |  | 鍋 | 錀 | 銝 | 錂 | 㗚 | 錄 | 錅 | 錆 | 鎊 | 啳 |
| A0 | 䈍 | 洹 | 洧 | 洌 | 列暴 | 为 |  | 泪 | 泪 | 洙 | 洎 | 洫 | 浍 | 洮 | 洵 | 浲 |  |
| B0 | 澵 | 浔 | 洨 | 涑 | 東浯 | 吾 | 迷 | 固 | 浞 | 涓 | 涔 | 浜 | 浠 | 浼 | 浣 | 渚 |  |
| C0 | 浙 | 澵 | 卖 |  |  | 異 |  | 洤 | 昶 | 淙 | 渖 | 涫 | 渌 | 㴰 | 㳭 | 䙵 |  |
| D0 | 称 | 捜 | 皇 | 䯎 | 滩 | 䍃 | 湔 | 渲 | 渥 | 腯 | 湤 | 泰 | 溘 | 湲 | 洂 |  | 年 |
| E0 | 溧 | 浱 | 㑥 | 激 | 園湍 | 完 | 埧涪 | 潩 | 溏 | 滂 | 完 | 潢 | 濝 | 㴋 | 溇 |  | 游 |
| F0 | 潈 |  |  | 掍 |  |  |  | 湤 |  | 澵 |  | 沙 | 有 | 童 |  | ， |  |

E5XX

|  | 0 | 1 | 2 |  |  |  | 5 |  |  | 7 | 8 |  | A | B | ， | D |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 錊 | 朗 | 效 |  | 䱝 | 觬 | 絰 | 錐 |  | 䥄 | 铜 | 镜 | 錔 | 鍟 | 左 | 䤼 | 錘 | 錐 |
| 50 | 錚 | 㪟 | 鈴 | 錝 | 腙鍴 | 艟 | 錟 | 緃 |  | 錡 | 鈛 | 錣 | 錤 | 销 | 䤼 | 錧 | 錨 | 緡 |
| 60 | 鋁 | 鐛 | 銖 |  | 碞 | 銅 | 錯 | 䋛 |  | 蒔 | 録 | 鉃 | 鋯 | 䋃 | 錶 | 鐇 | 鋉 | 解 |
| 70 | 铐 | 鲴 | 錡 |  | 復 | 絠 | 時 | 郎 |  | 迬 | 镜 | 鍄 | 紜 | － | 鉑 | 碞 | 鍉 |  |
| 80 | 練 | 䬼 | 2 |  | 諓 | 眚 | 待 | 鉸 |  | 鏳 | 鍒 | 鍓 | 锷 | 䡣 | 緒 | 銿 | 䤦 | 蒔 |
| 90 | 鋁 | 鏗 | 錧 |  |  | 鍞 | 飳 | 絔 |  | 锣 | 铝 | 罐 | 維 | 镇 |  | 銁 | 楑 | 鐯 |
| A0 | 鍫 | 3 | 漊 |  | 信 | 㐭 | 溓 | 渓 |  | 澴 | 湶 | 賷 | 濯 | 翰 |  | 㳑 | 漁 |  |
| B0 | 蔀 | － | ． |  | 完 | 宕 | 䆤 | 右 |  | 宸 | 蒚 | 寒 | 冓 | 殓 | 尞 | 褰 | 嘪 | 魇 |
| C0 | 室 | 2 | 迓 |  | 年 | 迥 | 迮 | 造 |  | 迹 | 迦 | 遈 | 造 | 逅 | 逢 | 逋 | 逃 | 速 |
| D0 | 逍 | 这 | 逵 | 造 | 胥 | 逶 | 逭 | 速 |  | 䢐 | 锒 | 道 | 避 | 逰 | 菬 | 匋 |  | 唯 |
| E0 | 造 | 戯 | 遬 |  | 㟫䢒 | 䢒 | 逿 | 析 |  | 唁 | 彖 | 蔇 | 尻 | 问 | 屋 | 局 | 展 | 履 |
| F0 | 共 | 层 |  |  |  |  | 觗 | 奀 |  | 榬 | 山 |  | 妃 |  |  |  | 炈 |  |

E6XX

|  | 0 | 1 | 2 | 3 |  |  | 5 | 6 | 7 |  | 8 9 |  | A | B | C |  | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 钽 | 锯 | － | 銠 |  | 猺錐 | 镍 |  | 臨 |  | 鏑 | 键 | 鋇 | 佳 | 鍋 | 䊽 | 鍺 | 全 |
| 50 | 煘 | 鍽 | 鍾 | 鍺 |  | 疨鋮 | 瑘 | 镁 | 紜 |  | 倞全 | 珧 | 䪔 | 鏗 | 鉌 | 鋽 | 銧 | 鉭 |
| 60 | 鏳 | 鎌 | 第 | 路 | 钴 | 克銅 | 䡌 | 沴 | 龯 |  | 轄部， | 縝 | 鍽 | 銪 | 溯 | 鐼 | 鑭 | 答 |
| 70 | 铬 | 鋔 | 埰 | 铻 | 圌銚 | 䒺咱 | ， | 笽 | 銧 |  | 这 | 䌦 | 鐶 | 鉾 | 䤨 | 鉸 | 夜 |  |
| 80 | 镐 | 鎖 | 鎮 | 全馆 | 輷 | 公隹 | 鎱 | 镜 | 錄 |  | 鎴鎵 | 鎵 | 鎶 | 緒 | 鎮 | 鎚 |  | 絧 |
| 90 | 纑 | 烽 | 铝 | 鈴 | 釷 | 景鏗 | 鉌 | 㖪 | 鈔 |  | 镇 | 綃 | 鏤 | 銑 | 縒 | 鏑 | 钵 | 鑟 |
| A0 | 䤽 | 妢 | 岈 | 㚾 | 为妇 | 好 | 好 | 站 | 姐 |  | 妯 |  | 妾 | 娅 | 娆 | 姝 | ＊ | 姣 |
| B0 | 姚 | 驼 | 媓 | 㛫 | 易㜠 | 嗗 | 做 | 笠 | 娣 |  | 娓 | 俱 | 婧 | 娃 | 㜛 | 娼 | 星 |  |
| C0 | 囱 | 强 | 媛 | 嫎 | 产等 | 答讓 | 滏 | 嫫 | 㜊 |  | 㡎 | 㛡 | 姺 | 管 | 䲹 | 娋 | 婦 | 婂 |
| D0 | 婑 | 嫜 | 嬉 | 娘 | 宜腎 |  | 縣 | 㜠 | 㛫 |  | 分 | 桼 | 孚 | 繁 | 淕 | 子 | 7 |  |
| E0 |  | ， | 明 | 嗗 | 角㙂 | 泽圱 | 蒻 | 䏩 | 筧 |  | 哠 | 朋 | 菏 | 骐 | 倮 | 艮 | 骓 | 㖪 |
| F0 | 慗 |  |  |  |  |  |  |  |  |  | 縗 |  | f |  |  |  |  |  |

E7XX

|  | 0 |  | 2 |  | 34 | 45 | 5 5 6 |  |  | 819 |  | A B | B C |  | D E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 谠 |  | 録 | 鏑 | 鏑鋝 |  | 鏓傎 | 㑑销 | 維銑 | 鏐銚 | 鐉綰 |  | 域 | 鋯 | 鏗鋟 | 锞 |
| 50 | 镂 |  | 鏡 | 鏡鍟 | 鎮䚡 | 虫謱 | 縷鏥 | 蹜銧 | 錟整 | 教繋 | 鋉佼 | 岴銷 | 㴧锊 | 利虢 | 觟鱕 | 誰 |
| 60 | 锺 | 崤 | 酷 | 虽錇 | 鏤噹 | 鲑锆 | 路镜 | 濉姝 | 㫿銧 | 镍銤 | 鍕銧 | 锍絽 | 鉸銧 | 橉鏼 | 策键 | B |
| 70 | 镍 | 窅 | 閏 | 斯鎘 | 鍢鉸 |  | 僙煮 | 筌 |  |  | 钴䥷 | 鑕解 | 澵紼 | 瀚鎴 | 鉿瞲 |  |
| 80 | 俟 | 鍀 | 鏡 | 就綡 | 䢘㓡 |  | 鋾錩 | 軲龯 | 賭鋅 | 鐖销 | 銅鋔 | 鎬鋖 | 逗銓 | 䰩鍄 | 漠整 | 洞 |
| 90 | 䛞 | 鍇 | 锫 | 羔銭 |  | 進镜 |  | 縸綃 | 㦈笂 | 漳 | 衡 | 睢疑 |  | 輔鎯 |  | 佺 |
| A0 | 龲 | 讼 | 纪 | 比经 | 攻组 | H细 | 植绂 | 发给 | 绉绋 | 佛织 | 去 | 给绘 | 堿 |  | 栙 |  |
| B0 | 绨 | 绞 | 绮 | 奇绯 | 绯緰 | 䋍纸 | 绲缍 | 倳 | 渚 | 栓 | 7 | 姩 | 㪀 | 相 | 相 | 鲑 |
| C0 | 绩 | 细 | 液 |  | 继 | 通垷 | 4 | 洼缜 | 期 | 厒 | 楊漖 | 諵渞 | 益纬 | 梡 | 宾缥 |  |
| D0 | 缧 | 燐 | 理 | 策㪇 | 做缭 | 尞濞 | 潩组 | 迷 | 继 | 澡纸 | 㛄缚 | 沵幺 | 幺畿 | 幾《 | 巛甾 | 奇 |
| E0 | 玎 | 现 | 玮 | 韦玢 | 玢玟 | 玟玨 | 珏玸 | 可珹 | 訧玷 | 玷訧 |  | 珀理 | 旺班 | 珈珥 | 珥珙 |  |
| F0 |  |  |  | 車珞 | 珞亝 |  |  |  |  | 瑛琦 |  | 琥珢 | 婫琰 |  | 琮琬 |  |

## E8XX

|  | 0 |  |  |  | 34 | 45 | 5 6 |  | 78 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 锽 |  |  |  | 䥀鍺 | 鐳鏗 | 䌟鎮 | 銭鋮 | 鑟管 | 僷 | 鐸 | 锡 | 鏜 |  |  | 頳鎵 | 絓 | 鋯 |
| 50 | 媛 | 鐛 |  | 煄鑃 | 籊鋃 | 銠繗 | 䌚镜 | 湖飽 | 济銑 | 銅 | 蒈 | 鉸 | 軗 |  | 貭製 | 釷缶 | 攽 | 管 |
| 60 | 墦 | 繿 |  |  |  | 腙鏆 | 䡠罐 | 淢撛 |  | 跣暒 | 鋯 | 鑽 | 鋔 |  |  | 铎鏩 | 鏤 | 皟 |
| 70 | 鏍 | 鎕 |  | 鏤鉦 | 縗䠌 | 瀑故 | 熼御 |  | 镜鋮 | 䡴 | 稦 |  | 覤 |  |  | 鏤錧 | 䥫 |  |
| 80 | 錀 | 鍡 |  | 鋅锁 | 嚗姺 |  | 鑵鹈 | 淢鏑 | 鋁偊 | 陣炧 | 節 | 唯 | 数 |  |  |  | 浆 | 郞 |
| 90 | 號 | 鍧 |  |  | 逗键 | 䤡钑 | 钑锚 | 钖锁 | 钮 | 铇䥻 | 铏 | 铓 | 锤 |  | 钴 | 铦 | 铻 | 锜 |
| A0 | 锶 | 墚 |  | 倨理 |  | 璊珼 | 瑗理 | 瑕搹 | 瑙現 | 瑗 | 琽 | 瑾 | 璜 |  | 理 | 磪 | 捕 | 放 |
| B0 | 璋 | 璞 |  | 檪饕 | 球珢 | 珞塈 | 壁置 | 㦰 | 朢起 | 䖯 | 輰 | 韬 |  |  | 杓杞 | 杞 | 权 |  |
| C0 | 杨 | 枇 |  | 杪査 | 査枫 | 枘机 | 梲杵 | 杵枚 | 枨 | 梑 | 楽 | 枋 | 杷 |  | 杼枌 | 柰 | 栉标 |  |
| D0 | 㭜 | 枢 |  | 枰棁 | 施柙 | 柙挹 | 枵栍 | 柚枳 | 枳竹 | 柝 |  | 柃 | 构 |  | 棫枒 |  |  |  |
| E0 | 㭏 | 栳 |  | 相桡 | 桡桎 | 桎植 | 帧粎 | 楼喽 | 桤梴 |  |  | 相 | 烑 |  | 桁检 | 检第 | 桀 |  |
| F0 | 楽 |  |  |  |  |  |  |  | 梓 |  |  | 楮 |  |  |  |  |  |  |

E9XX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | B | C | D |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

EAXX

|  | 0 |  |  | 23 | 34 |  |  |  | 78 | 8 9 |  |  | C | D |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 闌 | 閣 |  | 閏閶 | 風 | 風 | 圆風 |  | 罡䦎 | 園関 | 䦕風 | 圆關 | 開 |  | 閾 | 淘 |
| 50 | 關 | 風 |  | 甠閚 | 䦪開 | 閲 | 閩開 |  | 闆闆 | 閣限 | 回 | － | 田 | H | 包袁 | 洤 |
| 60 | 開 | 碞 |  | 胁 ${ }^{\text {P }}$ | 陇陁 | 防䧉 | 吔啉 |  | 欧 ${ }^{\text {c }}$ | 斗阿 | 阿阶 | 开 | 防 | 院 | 尤阯 |  |
| 70 | 阷 | 樶 |  | 阹陑 | 肬阾 | 阾陁 | 陁陃 |  | 阵 | 朱陏 | 陏 |  | 危 | 陖 |  | 仿 |
| 80 | 陘 | 陑 |  | 試掚 | 咷䧅 | 晀哖 | 筀戉 |  | 陣哖 | 焔陾 | 堧 | 陭 | 奇陮 | 准險 | 㓌陰 | 全 |
| 90 | 陳 | 阹 |  | 険 | 倹陸 | 㓌陣 | 暏陌 |  | 浣限 | 匿炜 | 動餅 | 㓌 | 缶旡 | 䧻隄 | 是 | 㘿 |
| A0 | 隊 | 总轻 |  | 辚 | 錾䟽 | 辊辚 | 辚婁 |  | 仪 | 裁戛 | 夏戟 | 㕹 | 戈 | 戴敫 | － |  |
| B0 | 㺂 | 荡 |  | 瓬部 | 咓部 | 摬開 | 鰖䜿 |  | 支省 | 旮晃 | 㫕旰 | 干 | 吴县 | 是暏 | 澘吴 | 昕 |
| C0 |  | 吕 |  | 曷备 | 答暏 | 䒜景 | 昱戨 |  | 呢旻 | 㸙瑕 |  | 㔼昆 | 晨㚣 | 安暚 | 晡 | 啥 |
| D0 | 星 | 暗 |  | 洖㖟 | 暖弫 | 湏阵 | 䁶絢 |  | 嚁㜢 | 養量 | 量贲 | 贳 | 㑆 | 呪贻 | 台 |  |
| E0 | 䃄 | 则 |  | 楥覓 | 窻财 | 永责 | 责䀛 |  | 䊉故 | 硡 | 粘现 | 观数 | 硡 | 戓䗑 | 观 |  |
| F0 | 华 | 䣼 |  |  |  |  | 语牲 |  |  |  | 建推 |  |  |  | 㧑 |  |

EBXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

ECXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

EDXX

|  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | c D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 䊩 | 謽 | 享鞣 | 䪃鞣 | 䍓 | 告 |  |  | 歌 |  | 鞨 | 㙰 | 埸 |  | 鞮 | 媞 |  |  |
| 50 | 鞵 | 等 | 童高 |  | 䪅 | 䋨 | 趴鞛 | 隚部 | 㜢䩘 | 皟鞣 | 䩱 | 韄 | 緎 |  |  | 祖 | 鞑 |  |
| 60 | 鞵 | 鞋 | 䩤 | 䊟 | 鞳 | 罆 | 氟䋍 | ＋ | 㝵程 | 行 ${ }^{\text {＋}}$ | 酦 | 虯 | 尞 | 蛤 | 哈蒾 | 景 | 缹 |  |
| 70 |  | 踊 | 瞔 |  | 緤 | 䞥 |  | 㮖笌 | 緹釦 | 讙新 | 雨 | 辎 | 彰 |  | 㗕 | 徫 |  |  |
| 80 | 讳 | 㸻 | 買趐 | 域圌 | 韭 | 䧕 | 載 |  | 碞 |  | 新 | 暗 | 敨 |  | 咜 | 嫨韹 |  |  |
| 90 | 而 | \％ |  | 講頁 | 頁 | 頂 | ， |  |  | 号 | 順 | 頂 | 須 |  | 頊 | 頊 | 㐨 |  |
| A0 | 頒 |  | 契 | 契 | 㶳 |  |  | 慁恙 | 眷 | 恩 | 㚃 | 惩 | 慗 |  | 新 | 䞨 | 㓪 |  |
| B0 | 缶 |  | 聿 | 聿 | 相 | 水 |  | 标 | 矶 | － |  | 硓 | 砤 |  |  | 伢斫 | 所砳 |  |
| C0 | 砝 |  |  | 砥 | 若 |  |  | 䃌 | 兂 |  | 砣 | 砩 | 研 |  | 矿 | 矿 | 寿 |  |
| D0 | 鿬 |  |  | 剚 |  | 碓 |  |  | 碇硕 |  | 硨 | 碣 | 碲 |  |  | 偏䂪 | 噤䂭 |  |
| E0 |  |  |  |  |  |  |  |  | 碌 |  |  | 需 | 敞 |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 焍駩 |  |  |  |

EFXX

|  | 0 |  |  | 3 |  |  |  |  | 67 |  | 819 |  |  | B |  | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 顯 | 等 | ＊ | ＊ | 䌎 | 頖 | 顴 |  | 緗気 |  | 福 |  | 顒 |  | 風 | 嗉 | 䖯 |  |
| 50 | 景 | 瞣 | 2 | 3 | 颫 | 桭 | 䑐 |  | 敂郦 | 碭 | 㯽 | 断 | 医 | 漏 | 㟫 | 閩 | 閧 |  |
| 60 | 明 | 渴 | 碞 | 迷 | 駐 | 䀦 | 閩 |  | 國 | S | 絽 | 碞 | 絽 | 既 | － | 麇 | 5 |  |
| 70 | 而 | ， | ， | 层风 | 回 | 崌 | 㱃 |  | 迵开 | 嫄 | 純 | （1） |  | 飡 | 㓪 | 们 | 詮 |  |
| 80 | 代 | ＋ | 干 | 吨 | 娃俍 | 儗 | 號 |  | 饬欴 | 飲䬾 | 飯 | 納死 | 䙹 | 欴 | 硅 | 餄 | 䬣 |  |
| 90 |  | 峧 |  |  | 溒 | 鲳 | 飼 |  | 鵤穊 | 飾飾 | 鲍 | 何 | 锥 | 堾 | 傚 | 餄 | 餅 |  |
| A0 | 姛 | 铩 | 铁 | 銑 | 铮 | 铯 |  |  | 物 |  | 彻锶 |  |  | 铝 |  | 铻 | 軘 |  |
| B0 | 越 | 锊 |  |  | 锍 |  | 铜 |  | 银钴 | 䊽 | 镪而 | P |  | 铛 |  | 钧 |  |  |
| C0 |  | 辂 | 锚 |  | 锁 | 锁 | 镍 |  | 铟 |  |  |  |  | 锼 |  | 锿 | 镂 |  |
| D0 |  |  |  | 慔铻 |  | 镌 | 镍 |  |  |  | 镓 |  |  |  | 镘 | － |  |  |
| E0 |  |  |  | 锌 |  |  | 轱 |  | 故 | 锐锆 | 错钴 |  |  |  |  | 镯 |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  | 稢 |  |  |  |  |  | 秢 |  |


| FOXX |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 |  |  |  |  |  |  |  |  | 78 | 89 |  | A ${ }^{\text {B }}$ | B C | c D | D E |  | $F$ |
| 40 | 餈 | 餉 |  | 美教 | 㙖 | 餌 | 铬 | 畸 |  | 封雄 | 推锇 | 锇餼 | 輔俗 | 僿觡 | 逗钵 | 钵餄 | 餘 |  |
| 50 | 销 | 銀 |  | 課湤 | 僻 | 镜 | 謋 | 餅 |  | 觡餢 | 棓何 | 僆飲 | 锬䍿 | 录躼 | 誠愧 | 矮館 | 碞 |  |
| 60 | 铛 | 㑮 |  | 湖 | 鿏的 | 鲓 | 镟 | 㮢 |  | 遏的 |  |  | 镘觥 | 销镇 |  | 场 | 㖪 | 铺 |
| 70 | 鲜 | 渹 |  | 逃㑲 | \％ | 㐮 | 䦔 | 嗑 |  | 造 | 首 | 䬻 | 緮的 | 律監 | 飶 | 陽 | 侁 |  |
| 80 | 断 | 䬧 |  | 瀷解 | 䲕館 | 狺 | 䀠 | 俈 |  |  |  | 綵饱 | 嗉掏 | 整锫 | 䢒餪 | 讀 | 迢的 | 楊 |
| 90 | 裉 | 穓 |  | 嗉 | 鎊 | 镇 | 債 | 饋 |  | 乱 | 论 | 筑 | 饸饹 | 洛 | 誼 | 狟肳 | 復 | 浬 |
| A0 | 销 | 種 |  | 楆档 | 皘 | 㥎 | 罍 | 種 | 的 | 饭的 | 佼皓 | 晧哲 | 誓的 | 境略 | 㽢新 | 縕而 | 甬 | 比 |
| B0 | 惑 | 鸫 |  | 的卦 | 的惖 | 鹃 | 鹄 | 鸮 |  | 鸤旣 | 䉞解 | 形热 | 劳䑙 | 䴗 | 卒 | 茐 | 敦 |  |
| C0 | 製 | 鹆 | 㴻 |  | 鸺 | 厾 | 鹋 | 䩓 |  | 的首 |  | 鹤豎 | 鸮鹚 | 鳪砢 | 等 | 罂 | 的枵 | 崖 |
| D0 | 鷩 | 鹉 |  | 第新 | 鰞何 | 晹 | 筬 | 嘀 |  | 獾暨 | 管鹳 | 茧 ${ }^{\circ}$ | 产行 | 宁柿 | 施瘀 | 汸荘 | 婻 |  |
| E0 | 訧 | 宿 |  | 向㾞 |  | 痄， | 疱 | 㾏 |  | 成㻢 | 瘀哂 | 症痤 | 寅症 | 表瘅 | 离㾦 | 宰痤 | 㓐痤 |  |
| F0 | 痑 |  |  |  |  |  |  | 癖 |  | 仵疾 | 䦕痤 | 痤瘠 |  | 虙泿 | 戌㾪 | 癁譃 |  |  |

## F1XX

|  | 0 |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 玲 |  | 䅛 | 韍 | 犮硍 | 艮魏 | 稢橎 | 潘鄱 | 噃颓 | 括䅧 | 嘪䅲 | 㰇魏 | 楾 | 眐 | 倳嬶 |  |
| 50 | 競 | 䧽 | 馬 | 馭 | 又馮 | 馬馴 | 形駒 | 䵠駺 | 馱駩 | 馲馿 | 馳䭾 | 那買 | 䍓 | ， |  | 譏 |
| 60 | 馺 |  | 馼 | 交電 | 䳪 | 尤駅 | 馿駽 | 㰲駺 | 駁旺 | 鸮駃 | 駃䭾 | 駄駅 | 駅駒 | 那 | 駇 | － |
| 70 | 駺 | 轺 | 名駪 | 的 | 駎 | 堵脤 | 傿駐 | 駐慮 | 墕駒 | 駒駩 | 䮆䮃 | 轀鷲 | 篤 | 訝 | 鉁㟨 |  |
| 80 | 駙 | 駚 | 駛 | 駐 | 駝 | 詑駞 | 駞駱 | 軚夷 | 誡駡 | 䮖駢 | 硑 | 訝駢 | 駐 | 戍养 | 而耻 |  |
| 90 | 駩 | 駐 | 駫 | 駬 | 耳駭 | 䠹駮 | 駮䮜 | 馾駺 | 駰駱 | 駱駲 | 耕騥 | 駐 | 㖪 | 制脤 | 軥駩 | 騄 |
| A0 | 駥 | 窑 | 瘼 | 寞鸸 | 痛 | 甪寅 | 䐵溏 | 康䌉 | 疾掝 |  | 療 |  | 鮧 |  | 筑釈 |  |
| B0 | 瘷 | 避 | 攧 | 哏 | 䌻 | 羽娕 | 娕贾 | 窇穹 | 穹究 | 窂空 | 空家 | 窈㚕 | 昆 | 穼 | 系節 |  |
| C0 |  | 窕 | 裃 | 衩 | 衲 | 成社 | 袿祒 | 祄袡 | 䘧祥 | 袢禅 | 裆袷 | 袷格 | 格 | 遂 | 廷袙 |  |
| D0 | 䙠 | 袨 | 楮 | 裼 | 禆 | 裨裾 | 裾䂏 | 裰 | 榙袹 | 褚祖 | 祖裸 | 裪蝙 | 斒袡 | 留䅥 | 紘褶 | 为 |
| E0 |  | 襗 | 正 | 胥 | 较 | 嘋新 | 竬訝 | 邪束 | 来輷 | 杍耖 | 竗楾 | 绍粭 | 㭘橉 | 䂆棹 | 鏑誊 |  |
| F0 |  |  |  |  |  |  |  | 聆职 |  | 聒 |  |  | 草幵 |  |  |  |

F3XX

|  | 0 |  | 2 | 3 | 34 | 4 | 56 |  |  | 89 |  |  | c | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 篤 | 䮯 | 噩 | 睪駺 | 詠龭 |  | 駘龮 | 權第 | 篤駺 | 戱騔 | 駮 | 諒龭 | 気第 | 閜鿯 | 酺騳 | 驩 |
| 50 | 駾 | 医 | 嗗 | 嗗 | 嗗哥 | 骩骍 |  | 帱 | 震 | 㯭筌 | 筽䌼 | 俑嘀 | 枵 | 路鲃 | 欨骭 | f |
| 60 | 娟 | 䯚 | 咆 | 包觟 | 䜵骻 | 此髅 |  | 交䯘 | 锫䠔 |  | 浭䯘 | 研 | 髄 | 随䯘 | 锰 |  |
| 70 | 髉 | 䯚 | 䱣 | 洨髎 | 漻髏 | 顀膚 | 䭒耪 | 碰䯘 |  | 䯣顝 | 镇鲜 | 䢕高 | 謜 | 䋁敬 | 䡙踲 |  |
| 80 | 扇 | 傜 | 笕 | 等 | 等留 | 苭梁 | 梁第 | 第荗 | 䞡楽 |  | 等脣 | 竪知 | 等 | 筌慗 | 等䝂 | 圭 |
| 90 | 算 | 第 | 第 | 行等 |  | 和眚 | 䦇髧 | 臨臨 | 萄䜿 | 峌髻 | 惄等 | 遥第 | 新 | 新䈭 | 登鷁 | 㐋 |
| A0 | 积 | 蟆 | 蝚 |  | 熄螪 | 楽蚸 | 蛙蚄 | 㜔㙖 | 蟼蛙 |  |  | 蝶螳 | 堂﨡 | 噑㡎 | 摬運 |  |
| B0 | 蛙 | 禹 | 緆 | 蟙 | 㯖蟠 | 燔稊 |  | 權蚛 | 䠰蝛 |  | 娣嫮 | 蔞虽 | 袁 | 袁蛟 | 懐缶 |  |
| C0 | 罊 | 倝 | 故 | 管 | 管笔 | 等 | 筬等 | 第笄 | 笄穊 | 筧第 | 第 | 第第 | 篢 | 管 |  | 笙 |
| D0 | 管 | 笏 | 笠 | 第 | 笥管 | 笳 | 笳迼 | 遵筀 | 管箷 | 符算 | 等先 | 箬筑 | 筌 | 荃笔 | 笔笉 |  |
| E0 | 䈒 | 銫 | 等 | 䈜 | 篾篤 | 篤皟 |  | 䓫箸 | 箸筹 | 箸箱 | 箱篭 | 䈉算 |  | 等管 | 管簪 |  |
| F0 | 域 |  |  |  | 笶等 |  | 籬策 |  |  |  |  |  |  |  | 䈷算 |  |

F5XX

|  | 0 | 1 | 2 | 3 |  |  | 56 |  | 7 | 8 | 9 |  | B | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 関 | 紗 | 鈈 | 魿 | 䱒 | 它 |  | 鴙 | 魣 | 铇 | 魰 | 煦 | 鲽 | 来䱕 | 鲐 | 鮊 | 铀 |
| 50 | 䅻 | 鮍 | 鮎 | 鮏 | 鮯 | 合䛌 | 鉋䡃 | 穌 | 䱦 | 䲝 | 鮕 | 鲗 | 箇 | 冬鮞 | 䦀 | 鲒 | 鮛 |
| 60 | 艎 | 粅 | 鮞 | 㫨 | 鲍 | 危駢 | 軦锥 | 铢 | 锦 | 烈 | 鮥 | 鲉 | 鮧 | 夷鲇 | 旨鲭 | 鲄 | 較 |
| 70 | 镑 | 鮭 | 鮮 | 星 | 都 | 魭 | 鮱 | 魷 | 鲑 | 鱿 | 皖 | 洓 | 锑 | 弟険 | 免解 | 差 |  |
| 80 | 䥽 | 假 | 鮽 | 櫋 |  | 相 | 鯀 | 峺 | 䱛 | 鯃 | 鲄 | 誰 | 棘 | 䯈铊 | 侁 | 桭 | 䔡 |
| 90 | 铭 | 鮯 | 鲖 | 覑 | 魳 | 刺溉 | 鯐䧺 |  | 鯜 | 魺 | 鲾 | 鋮 | 鲬 | 青等 | 鯘 | 號 | 1 |
| AO | 墹 | 酢 | 酡 | 酰 | 吘 | 尔 | 酯貯 | $\square^{\text {a }}$ | 酮 | 酲 | 酫 | 酶 | 根 | 既醅 | 咅秙 | 醍 | 相 |
| B0 | 酷 | 䁣 | 醪 | 醍 | 醀 | 雄酮 | 䤃輱 | 醹 | 醴 | 䃃 | 豕 | 敞 | 是 | 㦱玫 | 超 | 䟄 | 管 |
| C0 | 跑 | 㫛 | 研 | 跃 | 夫跄 | 路 | 跖践 | 渋 | 䠃 | 跞 | P | 跡 | 䟬 | 路 | 號 | 跷 |  |
| D0 | 跣 | 䟬 | 跻 | 跤 | 政 |  | 践䠔 | 踔 | 踝 | 踟 | 政 | 踇 | 踣 | 棓 |  |  |  |
| E0 | 喠 | 㖤 | 䠦 | 踷 | 蹁 | 晋路 | 㖻 | 嚴 | 㗕 | 䠛 | 間 |  |  | 跨震 |  | 跔 |  |
| F0 |  |  |  | 政 |  |  |  |  | 貅 |  |  |  |  |  |  | 獄 |  |

F7XX

|  | 0 |  |  |  |  |  |  |  | 8 | 78 |  |  |  | B |  | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 䬼 | 鿉 |  |  | 鳋 | 磁 | 鹪 |  |  |  |  | 誰 | 䱣 | 亷 | 钼 | 弥 | 騳 |  |
| 50 | 匐 | 嗉 | 铖 | 铻 |  | 䱮 | 鷕 |  | 諹鿏 | 㒛信 | 㗝隹 | 䚚 | 锏 | 鱗 | 暒 | 镜 |  | 莫 |
| 60 | 䍄 | 謱 | 蕒铛 | 䱪 | 楽 | 鰒 | 餃 |  | 保镇 | 適館 | 䧕郋 | 暒何 | 锂 | 䱏 | 锆 | 誰 | 缶 | 早 |
| 70 | 鲬 | 铲 | 锥 | 鎾 | 锰 | 䲅 | 騂 |  |  | 䦥鱆 |  | 镩動 | 䱛 | 騄 | 鰎 | ＋ |  | 模 |
| 80 | 离 |  |  | 鱾貯 |  | 鱾 |  |  | 他鲜 | 胙鹪 | 㿟館 | 艘隹 | 動 | 铜 | 蝛 | 成稣 | 㫋 | 会 |
| 90 | 鶴 | 鲬 | 等 | 錤自 | 䍃 | 鲇 | 㹂 |  | 䡮䤻 | 絽䬬 | 鯌 | 䱚的 | 鯸 | 輅 | 鋇 | 易輱 | 铂 | 習 |
| A0 | 胞 | 警 |  | 踦鲑 | 銁 | 䬱 | 鳐 |  | 朝销 |  | 觮解 | 䑳 | 筌 | 䡏 | 㣜 | 鳝 | 鲑 | 0 |
| B0 | 鋉 | 靾 | 央鞋 | 鞑 | 喯 | 鞔 | 靵 |  | 做鞣 | 鞣䩘 | 螨蜼 | 棆 | 伃 | 歇 | 骨 | ， | 骶 |  |
| C0 | 桶 |  |  | 鳞 | 鲕 | 骼 | 骹 |  |  | 䃨䰡 | 魅魅 |  | 㖃 | 魀 | 魅 | 䰡 | 发 |  |
| D0 | ， | 殡 | 筀 | 等 | 䨘 | 帪 | 嚳 |  | 等为 | 第臨 | 䛗 | 춯 | 咸 | 筗 | 笱 | 剆 | － | 答䛒 |
| E0 | 嗉 |  |  | 魔監 | 魔 | 閱 | 楽 |  | 茥薬 |  | 銅 | 考 | 䋤 | 麟 | 䳡 | 寚 | 法鈞 | 紼 |
| F0 | 㘿 |  |  |  |  |  |  |  |  | 游 |  |  |  |  |  |  |  |  |

## F8XX

|  | 0 | 1 | 2 | 23 |  |  | 5 | 6 |  |  | 8 |  | A | B | C | D |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 駺 | 鲙 | 管鳥 | 鳥 | 堲置 | 自 | 鸭 | 加 | 島洎 | 鴂 | 鳫 | 稂 | 翵 | 鸡 | 鳳 | 鳮 | 玛 | P凩 |
| 50 | 風 | 鳴 | 鳥形 | 鸿 | 蔦 | 鵁 | 㾺 | 今䜪 | 旬规 | 鳥 | 鸮 | 鳼 | 形 | 鸸 | 鸤 | 䃖 | 鸡 | 圽 |
| 60 | 駃 | 四 | 鳥肠 | 鵬 | 䴔 | 鸫 | 敫 | 可邪 | 珃现 | 鸤方 | 䉆 | 䲲 | 啇 | 臤 | 鄥 | 鴙 | 第 | 㰸 |
| 70 | 媽 | 膆 | 何旡 | 絶 | 鸲 | 䴔 | 鴙 | 知 | 岛岛 | 歌 | 篇 | 第 | 战 | 碞 | 吅 | 䴗 | 鵖 |  |
| 80 | 紅 | 鸪 |  | 笗 | 岤 | 篤 | 鸱 | 域 | 鳥 | 鸤 | 鹃 | 狍 | 鴬 | 鳭 | 教 | 鴯 | 敌 | 欢 |
| 90 | 鹉 | 效 | 易行 | 㣮 | 鸺 | 鸭 | 罭 | 楾 | 鳥关 | 鳥事 | 煦 | 鸿 | 駱 | 紫 | 慯 | 䳜 | 鵀 | 效 |
| A0 | 歇 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## FAXX

|  | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | A ${ }^{\text {B }}$ | B | c | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 鴨 | 鿂 | 䢕 | 硓 | 䳝 | 鹖 | 鸡 | 㻞 |  | 鴙 | 鿂倉 | 鶬 | 䉆 | 瀶 | 第 | 鸮 | 寉 | 鸛 |
| 50 | 䏲 |  | 軳 | 騔 | 鸲 | 鹳 | 㖘 | 鮘 |  | 鸹 | 骲 | 稢 | 鸫 | 施 | 鵠 | 䖧 | 鐇 | 竩 |
| 60 | 嘍 |  | 积 | 號 | 虽 | 慜 | 駺 | 動 |  | 㿽 | 鹳 | 鳥 | 昜 | 蚼 | 䮧 | 鶋 | 鸲 | 鈞 |
| 70 | 蜴 | 篇 |  | 跋 | 堅 | 鷗 | 第 | － |  | 罭 | 釷 | 鹖 | 鹌 | 兟 | 䲵 | 鷠 | 䲧 |  |
| 80 | 䲩 |  | 鸲 | 阿 | 䉆 | 䳡 | 鶭 | 数 |  | 篤 | 䮧 | 䬾 | 鹊 | 鴭 | 㖣 | 积 | 䉆 | 軾 |
| 90 | 䉆 | 茞 | 㦴 | 賏 | 騳 | 鸮 | 躰 | 瑏 |  | 䳸 | 堅 | 筒 | 鵬 | 駡 | 鸹 | 鶋 | 鸮 | 蠃 |
| A0 | 嚧 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

FCXX

|  | 0 | 1 | 2 |  |  |  | 5 | 6 | 7 | 8 | 9 | A | B | B C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 䊀 | 教 | 慗 |  | 怯 | 发 | 侾 | 㭳 | 頝 | 詨 | 慗 | 臬 |  | 㬼教 | 匋皟 | 臬㦄 | 樜 |
| 50 | 度 | 嶙 | 展 |  | 黄 | 枵今 | 碞 | 荺 | 垬 | 㮱 | 䞨 |  | 㟺笙 | 楾易 | 早里 | 珃 | 野 |
| 60 | 浬 | 黙 | 黚 |  | 蛅 | 湯 | 鹌 | 騩 | 顽 | 㤟 | 㙊 | 逞製 |  | 蜽 | 㫨部 | 缕腃 | 践 |
| 70 | 鷖 | 㗢 | 駩 |  | 喿 | 䝷 | 衡 | 影 | 弫 | 辰 | 斋 | 它䃭 |  | 昆情 | 責袻 | 鹰敂 | 速 |
| 80 | 㖘 | 哠 | 酷 |  | 爵 | 嚧 | 量 | 顛 | 開 | 虫 | 鼓 | 鼓曹 | 圭宔 |  | 䓣慗 | 整 | 䓔慗 |
| 90 | 㲓 | 擎 | 鏊 |  | 単的 | 蜪 | 敂 | 戫 | 閭 | 觗 | 既 | 咚鮷 |  | 生 | 凰䮃 | 时脤 | 医龭 |
| A0 | 壏 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## FEXX

|  | 0 | 1 | 2 | 3 |  |  | 56 | 6 | 7 | 8 |  | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 元 | 崖 | 隻 | 塎 | 谷䗉 | 侍 | 柎标 | 粚 | 礼 | 荡 | 薄 | 綪 | 趈 | 返 | 﨧 | 﨨 | 隝 |
| 50 | 厂 | ナ | － |  | 万 | ， 1 | 㱀 | 笭 | $\bigcirc$ | B | マ | 㖞 | 蜴 | 閥 | ＊ | 加 | 淘 |
| 60 | 㤘 | 天 | 㧏 |  |  | 樓振 | 权 | $\pm$ | \＃ | 桐 | 殖 | 㳠 | 生 | 夫 | 业 | 正 | 喽 |
| 70 | 移 | N | 组 | \％ |  | 关 | 羊 | 戈 | 㮘 | 䍖 | $\pm$ | 㛈 | 芴 | 樍 | 䙌 | 龹 |  |
| 80 | 䜣 | 孉 | 䝰 | 啹 | 青足 | 促 | 鍽 | 䥺特 | 䥽 | 镐 | 镡 | 锫 | 誛 | 闍 | 閣 | 園 | 芧 |
| 90 | 卓 | 玄 | 救 | 锦 | 即鯺 | 諸解 | 鲜碇 | 教肨 | 脑 | 酠 | 䴔 | 䍂 | 鸭 | 鸮 | 鸰 | 砢 | 回 |
| A0 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

F9XX

|  | 0 | 1 |  | 23 | 3 | 4 | 5 | 6 | 7 | 8 |  | A | B | C | D |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 鸼 |  | 鳥 | 筬 | 衡 | 程 | 鵈 | 鵉 | 智 | 鸮 | 鸟駼 | 徐訜 | 晹 | 场 | 䣱 | 鹘 | 铇 |
| 50 | 暘 |  | 裁效 | 媽 | 鵖 | 鹳 | 雏 | 賱 | 桖 | 鹑 | 勒 | 鳥鉺 | 鴙 | 鵟 | 䍉 | 報 | 躬 |
| 60 | 鵭 |  |  | 篤 | 䚁 | 鸺 | 诠 | 现 | 䡃 | 島鸨 | 驜 | 场鐡 | 鴁 | 軹 | 騙 | 鹤 | 蛬 |
| 70 | 鹪 |  | 鹀解 | 紅 | 䳺 | 晾 | 鳪 | 鴭 | 效 | 風鎨 | 谣新 |  | 鴊 | 躬 | 骐 | 䴔 |  |
| 80 | 鹖 |  | 䭒 | 䯇 | 鸮 | 鸺 | 梚 | 鹎 | 朝 | 酷 | 号鶋 | 鸲 | 枵 | 璟 | 鴙 | 䢟 | 蔦 |
| 90 | 糃 | 敬 | 洓䂞 | 鸿 | 謁 | 鶑 | 题 | 朝 | 知 | 卾 | 部 | 鸹䴔 | 鰞 | 鸲 | 鹦 | 鸮 | 歇 |
| A0 | 3⿹\zh4灬 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

FBXX

|  | 0 | 1 | 2 |  |  |  |  |  | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 䈅 | 驚 | 鹃 |  | 咗 | 鸹 | 鹌 | 䉆 |  | 紿 | 駋 | 烳 | 䳟 | 积 | 疑 | 鶢 | 駡 |
| 50 | 哯鸟 | 䡔 | 部 | 易新 | 䊉 2 | 臨 | 鸮 | 鯌 | 㓵 | 朝 | 垦 |  | 莺 | 鸩 | 鸭 | g | 釷 |
| 60 | 営 | 鲕 | 舵 | 㽝 |  | 跔 | 鷠 | 黟 | 䊺 | 栢 | 晹 | 棃 | 鸽 | 鸮 | 鸮 | 鹃 | 笙 |
| 70 | 緊 | 蚼 | 漓 | 蕀 |  | 酎 | 國 | 喃 | 龄 | 铪 | 蜢 | 鯥 | 镰 | 战 | 覽 |  |  |
| 80 | 伥 | 庶 | 鹿 | 管 | 㝘 | 㞃 | 峎 | 臹 | 镔 | 麘 | 啕 | 䧑 | 樚 | 䈭 | 辳 | 䛗 | 園 |
| 90 | 砵 | 磨 | 或 | 或 | 傀 | 共 | 戙 | 良 | 尿 | 㿑 | 顑 | 罭 | 釆 | 麦 | 佼 | 辣 | 竝 |
| AO | 整 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

FDXX

|  | 0 | 1 |  |  |  |  |  |  |  | 78 |  |  |  | B | C ${ }^{\text {d }}$ | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 | 䬤 | 眖 | 夙 | 罭 | 輀 | 酔 | 䭑 |  | 閾㖵 | 詯 | 䋁顛 | 㩆 | 䳢 | 觮見 | 䪅 | 顛 | 鵢 | 䭷 |
| 50 | 剈 | 僰 | 倍齊 | 齊 | 凮 | 曾 | 尞 |  | 筬 | 告 |  | 䰲 | 䀝 |  | 鲄 | 断 | 龄 | 鮈 |
| 60 | 鮓 | 崓 | 迷 | 雄 | 跲 | 䍉 | 既 |  | 鮉范 | 踣歯 | 軨齔 | 䝭 | 當 | 战 | 䱁 | 䧼 | 畝 | 镬 |
| 70 | 狍 | 嚙 | 國 | 給 | 颣 | 畸 | 覕 |  | 鲴鳪 | 域期 | 偊新 | 閟 | 適 | 觛 | 滷 | 罆 | 鲑 |  |
| 80 | 對 | 歇 | $⿹ 勹 口_{\text {可 }}$ | 顛 | 镆 | 誥 | 飺 |  | 坆挂 | 断龍 | 龍䐂 | 笓 | 梨 | 餪 | 裴 | 筧 | 瀐 | 暨 |
| 90 | 統 | 颜 | 路等 | 需 | 罭 | 䋹 | 䅣 | 管 | 篂既 | 歓創 | 剠既 | 緑 | 斯 | 頱 | 良 | 凉 | 㕿 | 表 |
| A0 | 䈷 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

FFXX

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ | $F$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 11．9 GB18030（4－byte Code）

| 8139 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | ${ }^{4} 4$ | 4 | 56 | 67 | 78 | － 9 |  |  | 3 C | D | E | F |
| E030 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E130 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E230 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E330 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E430 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E530 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E630 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E730 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E830 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EA30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EB30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EC30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ED30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EE30 |  |  |  |  |  |  |  |  |  |  | It |  |  |  |  |  |
| EF30 | 丙 | 成去 | 全分 | 4 | \＃ | 又号 | 白孚 | 公父 | 文 | 5 老 | 支 |  |  |  |  |  |


|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


|  | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 |  | 8 | 9 | A | B | C | D |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8030 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8130 | 僕 | 侗 |  | 䭪 | 匋 | 做 | 保 | 僠 | 咗 | 全 | 元 | 萛 |  |  |  |  |  |  |
| 8230 | 況 | 远 |  | 缶 | 소 | 多 | 会 | 㒳 | 内 | 全 | 頁 | 合 |  |  |  |  |  |  |
| 8330 | 具 | 㒸 | 㒸顛 | 㒹 | 圆 | 睍 | 㒼 | 蜀 | 暴 | 共 | 雖 | 下 |  |  |  |  |  |  |
| 8430 | 万 | 冦 |  | 兄 | 踣 | 汀 | 次 | 沃 | 天 | 砳 | 活 | 洞 |  |  |  |  |  |  |
| 8530 | 洪 | 准 |  | 流 | 㧐 | 洞 | 洼 | 㳯 | 幸 | 洔 | 湳 | 柎 |  |  |  |  |  |  |
| 8630 | 减 | 哖 |  | 流 | 風 | 文 | I］ | 工） | 加 | 㓜 | 㓝 | 韧 |  |  |  |  |  |  |
| 8730 | 㓟 | 占 |  | 许 | 㓢 | 㓣 | 㓤 | 当 | 削 | 㓦 | 倽 | 㚒 |  |  |  |  |  |  |
| 8830 | 解 | 䬶 |  | 㭢 | 暏 | 㓭 | 㓮 | 畄 | 新 | 献 | 㓱 | 㓲 |  |  |  |  |  |  |
| 8930 | 边 | 具 |  | 号 | 制 | 的 | 刮 | 䂦 | 碝 | 為 | 刞 | 栓 |  |  |  |  |  |  |
| 8A30 | 刋 | 願 |  | 利 | 叞 | 旖 | 粼 | 告 | 㛈 | 唎 | 断 | 䵞 |  |  |  |  |  |  |
| 8B30 | 剔 | 菲 |  | 辟 | 㔊 | 啕 | 乿 | 算 | 解 | 考 | 部 | 歓 |  |  |  |  |  |  |
| 8C30 | 荇 | 苟 |  | 功 | 驾 | 动 | 加 | 弗 | 影 | 动 | 别 | 嘍 |  |  |  |  |  |  |
| 8D30 | 孛 | 脬 |  | 坥 | 积 | 劸 | 歇 | 㐫 | 别 | 弯 | 勏 | 䵢 |  |  |  |  |  |  |
| 8E30 | 断 | 竡 |  | 朝 | 圱 | 匋 | 匋 |  | t | 早 | 比 | 兟 |  |  |  |  |  |  |
| 8F30 | 目 |  | 还 | 西 | 医 | 國 | 湦 | 通 | 罢 | 唩 | 目 | 區 |  |  |  |  |  |  |


|  | 0 | 1 | 2 |  | 34 | 4 | 5 | 6 |  | 7 | 8 | 9 | A | B | C |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9030 | 切 | 亦 | T | 年 | 准直 | 㔽 | 巳 | 万 | － | 婁 | 拞 | 昘 |  |  |  |  |  |  |
| 9130 | 屏 | 层 | 凩 | 闸風 | 固 | 底 | 不 | 㕉 | 合 | 屚 | 全 | 辰 |  |  |  |  |  |  |
| 9230 | 㕍 | 固 | 唇 | 成 | 或㴻 | 时 | 展 | 里 | 隹 | 辟 | 㕕 | 県 |  |  |  |  |  |  |
| 9330 | 数 | 条 | 嗾 | 发没 | 叉 | 又 | 安 | 支 | 或 | 颃 | 都 | 雔 |  |  |  |  |  |  |
| 9430 | 战 | 䫒 | 又 | 吹 | 㕤》 | 以 | 吴 | 吅 | 呵 | 成 | 唓 | 梚 |  |  |  |  |  |  |
| 9530 | 㕫 | 㕬 | 呵 | 吹 | 吹 | 肉 | 吒 | 㕱 | 吅 | 㕲 | 垴 | 玩 |  |  |  |  |  |  |
| 9630 | 㕵 | 㖇 | － | 白咬 | 㕸啄 | 发 | 咢 | 杏 | 榢 | 哅 | 昒， | 少 |  |  |  |  |  |  |
| 9730 | 香 | 唓 | 㖇 | 宏哩 | 哽兓 | 咟 | 㖄 | 战 | 吅 | 㖆 | 㖇 | 者 |  |  |  |  |  |  |
| 9830 | 埕 | 彁 | 時 | 気保 | 彵部 | 剖 | 舞 | 哩 | 星算 | 䍙 | 喊 | 㖒 |  |  |  |  |  |  |
| 9930 | 㖓 | 㖶 | 奇琼 | 幸苦 | 咅路 | 哕 | 脹 | 邵 | E | 乱 | 㖛 | 咅 |  |  |  |  |  |  |
| 9A30 | 罢 | 㖟 | 㖫 | 峑咃 |  | 㠃 | 部 | 嗗 | 的唯 | 梱 | 徚 | 㖧 |  |  |  |  |  |  |
| 9B30 | 㖨 | 嘅 | 㖪 | 㖪㖫 | 㖫嗗 | 䁓 | 係 | 哈 | 领 | 爵 | 間 | 夜 |  |  |  |  |  |  |
| 9C30 | 絢 | 詻 | 㖴 | 晹門 | 㖵唓 | 理 | 㖷 | 脏 | 者 | 适 | 啫 | 㖻 |  |  |  |  |  |  |
| 9D30 | 㖼 | 㖽 | 䍖 | 㖩 | 揶咪 | 噒 | 䍓 | 喈 | 哖 |  | 㗄 | 㗅 |  |  |  |  |  |  |
| 9E30 | 㗆 | 嗗 | 嗙 | 㙰菈 | 䎌 |  | 唤 | 堗 | 㗌 | 嗅 | 噪 | 䟚 |  |  |  |  |  |  |
| 9F30 | 㗌 | 舫 | 㖣 | 句䳪 | 㛺战 | 喊 | 䓵 | 㗖 | 䍐别 |  |  | 歾 |  |  |  |  |  |  |

8230

|  | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 |  | 819 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A030 | 㗚 | 知 | 莫翑 | 畜嗄 | 哑 | 喘 | 詿 | 號 | 納 | 笣唯 | 程 ${ }^{\text {P }}$ | 啺 |  |  |  |  |  |  |
| A130 | 或 | 噃 | 既 | 制嗆 | 潌 | 腎 | 㕵 | 㗪 | 勄 | 尔部 | 堂陽 | 㭺 |  |  |  |  |  |  |
| A230 | 硬 | 堂 | 堂唯 | 鱿 | 㗱 | 㗲 | 咯 | 鮰 | 㗔 |  |  | 嗙 |  |  |  |  |  |  |
| A330 | 擱 | 䱛 | 唯 | 痱限 | 過 | 梠 | 管 | 墐 | 垹 | 哃吻 | 係 ${ }^{\text {d }}$ | 㘁 |  |  |  |  |  |  |
| A430 | 愈 | 㲤 | 噭 | 肪唯 | 崅 | 䧸 | 檪 | 擬 | 垹 | 堍 | 倌 ${ }^{\text {a }}$ | 橮 |  |  |  |  |  |  |
| A530 | 相 | 咬 | 気䍂 | 鿾榢 | 㖪 | 犍 | 墦 | 呚 | 㖕 | 章 | 落 4 | 謴 |  |  |  |  |  |  |
| A630 | 咞 | 變 | 哴 | 㫛港 | 噇 | 硨 | 区 | 因 | 回 | 团 | 回 | 㘡 |  |  |  |  |  |  |
| A730 | 园 | 圆 | 目 | 回 | 橰 | 㘦 | 㘧 | 㘨 | 内㘩 | 比脤 | 㘪㘺 | 㘫 |  |  |  |  |  |  |
| A830 | 均 | 均 | 场 | 㘮㙂 | 㘯 | 㘰 | 圱 | 疣 | 㘳 | 㘳呠 | 坐场 | 贿 |  |  |  |  |  |  |
| A930 | 雍 | 坟 | 赵㤠 | 型些 | 㘹 | 城 | 㘻 | 欵 | 5 | 或㘧 | 垵侍 | 㘿 |  |  |  |  |  |  |
| AA30 | 㙀 | 㙁 | 場 | 㙂场 | 㙃 | 烓 | 垛 | 垅 | 场 | 㙇城 | 㙈垗 | 埧 |  |  |  |  |  |  |
| AB30 | 垠 | 㙋 | 其城 | 埔坆 | 䛵 | 堿 | 㙏 | 龧 | 需 | 動硅 | 琶点 | 䒧 |  |  |  |  |  |  |
| AC30 | 㙔 | 倜 | 場 | 㙖㙣 | 噮 | 㙘 | 秷 | 垟 | 城 | 溥 | 哼场 | 場 |  |  |  |  |  |  |
| AD30 | 㳫 | 墘 | 㗅良 | 䍿洗 | 壻 | 墐 | 场 | 墟 | 燷 |  | 觟 | 䓒 |  |  |  |  |  |  |
| AE30 | 㙨 | 塕 | 暔 | 吉場 | 㙫 | 慗 | 程 | 塔 | 荅筀 | 瑶坐 | 蛙 | 硅 |  |  |  |  |  |  |
| AF30 | 䄰 | 聕 | 域圽 | 堛㨬 | 培宫 |  | 域 |  |  |  | 㙋 | 㙏 |  |  |  |  |  |  |

8230

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | E |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 8230 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 314 | 45 | 5 5 6 |  | 78 | 8 9 |  |  | 3 C |  |  |  |
| C030 | 故 | 始 | 舍㜞 | 䡈㗢 | 暾孉 | 崔预 | 效媚 | 樓姆 | 呚姓 | 幜㛣 | 皟 |  |  |  |  |  |
| C130 | 雉 | 婦 | 或㛫 | 署婍 | 燠堑 | 暂㐌 | 婦圽 | 牿復 | 㜭娭 | 嬁 | 断 |  |  |  |  |  |
| C230 | 嬠 |  | 䪽姣 | 交搞 | 懐娂 | 青㜭 | 塿㚿 | 婁家 |  |  | 梅 |  |  |  |  |  |
| C330 | 䝷 | 㛉 | 漖 | 㿥学 | 学牥 | 䂆出 | 㖇新 | 孙等 | 等浙 | 浙陁 | 㝃 |  |  |  |  |  |
| C430 | 埆 |  | 孙 | 喜享 | 䇾悉 | 孝宔 | 二文 | 文宁 | 宁穴 | 穴㝍 | 㝍 |  |  |  |  |  |
| C530 | 完 | 齐 | 交公 | 穴另 | 完谔 | 官容 | 容客 | 交荽 | 客窑 | 客家 | 首 |  |  |  |  |  |
| C630 | 㝘 |  | 䀄这 | 容酙 | 定曾 | 㝘箖 | 㝝㝘 | 豈完 | 完宾 | 完宁 | 撖 |  |  |  |  |  |
| C730 | 窝 | 戞 | 宾垩 | 箦燐 | 察塞 | 寉塁 | 產㝨 | 㝨康 |  | 䈅 | － |  |  |  |  |  |
| C830 | 涪 |  | 室家 | 寉 | 堸㶳 | 考寝 |  | 蔵标 | 椋邧 | 㝴 | ， |  |  |  |  |  |
| C930 | 罢 | 寻 | 事省 | 完冕 | 奚弾 | 勒 | 勒逃 | 远尤 | 旭尤 | 犮边 | 速 |  |  |  |  |  |
| CA30 | 这 |  | 边尤 | 塁訧 | 就橉 | 倳垉 | 息旭 | 景尤 | 棫加 | 通 | 腾 |  |  |  |  |  |
| CB30 | 就 |  | 又㞌 | 源 | 風迸 | 國层 | 园居 | 㢄 | 尾居 | 居 |  |  |  |  |  |  |
| CC30 | 亚 | 屑 | 属 | 困厡 | 尿层 | 家辰 | 展居 | 居履 | 嘚履 | 展號 | 楽 |  |  |  |  |  |
| CD30 | － | 廈 | 㘼暴 | 袒共 | 共出 | 出㞣 | 㞣炎 | 因 | 㞥岓 | 比分 | 岁 |  |  |  |  |  |
| CE30 | 証 | 峟 | 茏雨 | 㐾岂 | 岂出 | 辛布 | 䓣发 | 发豈 | 拖岞 | 㞰 |  |  |  |  |  |  |
| CF30 | 訲 |  | 㭖 | 低㞵 | 交㞶 | 玟主 | 実米 | 柯㞹 | 㞹灵 | 㟋 | 号 |  |  |  |  |  |

8230

|  | 0 |  | 12 | 2 | 3 | 34 | 45 | 5 | 6 | 67 | 78 | 8 | 9 | A | B | C | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D030 | 氺 |  | 或 | 㞾 | 考 | 宔否 | 香 | 妍 | 㟨 | 崎 ${ }^{\text {d }}$ | 㞹 | 㟄 | 蛙 |  |  |  |  |  |  |
| D130 | 谟 |  | 殅垸 | 蛷 | 求柈 | 甠㓎 | 娐 | 㟋 | 兑㡙 | 吮岆 | 㟍垸 | 涭 | 岭 |  |  |  |  |  |  |
| D230 | 楛 |  | 浡 | 免 | 峏 | 渏容 | 容枵 | 吘 | 4 | 茾 |  | 蜩 | 㟙 |  |  |  |  |  |  |
| D330 | 格 |  | 莯 | 䛔 |  | 培楮 | 掝空 | 寋 | 坴崔 | 開落 | 㮱䓫 | 䓫 | 敳 |  |  |  |  |  |  |
| D430 | 是 |  | 䇣 | 棲 | 車捣 | 崇珖 | 㟨 | 䜿 | 峈儇 | 儇榢 | 㟫 | 管 | 崏 |  |  |  |  |  |  |
| D530 | 峏 |  | 崣 | 崸 | 潂 | 㟱㞹 | 㟲 | 崔 | 塊塊 | 魅哑 | 峜原 | 景 | 峈 |  |  |  |  |  |  |
| D630 | 崏 |  | 明 | 萁 | 其㟻 | 断政 | 敳峏 | 縣 | 峏骕 | 漮峏 | 㟄 | 島 | 峻 |  |  |  |  |  |  |
| D730 | 動 |  | 㑲 |  | 澵 | 复崔 | 㹆 | 施 |  | 閣嵉 | 㟋嶋 | 掝 | 寨 |  |  |  |  |  |  |
| D830 | 敓 |  | 宋场 |  | 荲 | 蜹蓄 | 耑寺 | 殅 | 宏崎 | 诫栲 | 榬節 | 㠔 | 䛷 |  |  |  |  |  |  |
| D930 | 宾 |  | 澳 |  | 真暿 | 㒉峈 | 做 | 樵 | 隻䧕 | 堠峪 | 積酸 | 缼 | 聺 |  |  |  |  |  |  |
| DA30 | 䂸 |  | 㜢 |  | 复珎 | 㒛㠉 | 崜 ${ }^{\text {d }}$ | 䭪 |  | 量峖 | 峼殇 | 嶃 | 行， |  |  |  |  |  |  |
| DB30 | F |  | 㠫 |  | 牛 | 玨館 | 新 |  | 号驾 | 驾或 | 員㠸 | 加 | 命 |  |  |  |  |  |  |
| DC30 | 肠 |  | 耍晥 |  | 㠷 | 㠷㠸 | 姨晹 |  | 的㠺 | 少亦 | 表㠼 |  | 㠽 |  |  |  |  |  |  |
| DD30 | 备 |  | 先 |  | 奥猗 | 䛴务 | 裂朝 | 梳 | 珓恟 | 姰中 | 㡅的 | 流 | 吻 |  |  |  |  |  |  |
| DE30 | 帨 |  | 鴗幅 |  | 㡋 | 㭺 ${ }^{\text {b }}$ | 掦嚅 | 動 |  | 輰漓 | 蝓 ${ }_{\text {韩 }}$ | 㡐 | 犁 |  |  |  |  |  |  |
| DF30 | 侷 |  | 玾 | 㮌 | 务烪 | 楧䡉 | 㡖 |  | 風様 | 㖒官 | 蜮㫫 | 㡚 | 輬 |  |  |  |  |  |  |



8230

|  | 0 | 1 | 2 | 2 |  | 4 |  |  |  | 7 | 8 | 9 |  |  |  | C | D |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F030 | 切 | 意 | 恔 | 炜 | 的 | 全 | 寿 | 尽念 | 恳 | 肪 | 枋 | 市 | 先 |  |  |  |  |  |  |
| F130 | 㤆 | 快 | 天 | 尤 | 㤉 | 玟 | 性 | 分 1 | H | 甹 | 㠰 | 各 | 年 |  |  |  |  |  |  |
| F230 | 点 | 㤑 |  | 体 | 梀 | 时 |  | 出 | 㤖 | 泰 | 䨋見 | 易 | 街 |  |  |  |  |  |  |
| F330 | 惟 | 蚁 |  | 㤝 | 恔 | 跌 |  | 知例 | 例 | 㤢 | 去 | 等 | 使 |  |  |  |  |  |  |
| F430 | 恔 | 快 |  | 佑 | 其 | 忞 |  | 処交 | 意 | 㤬 | 樓 | 桥恶 | 琶 |  |  |  |  |  |  |
| F530 | 恫 | 䧶 |  | 圄 | 慈 | 帢 |  | 侙琴 | 选 | 餽 | 㥩 | 舍 | 浾 |  |  |  |  |  |  |
| F630 | 永 | 梳 |  | 题 | 㤼 | 情 |  | 深 | 腌 | 㥀 | 宬 | 蒖 | 時 |  |  |  |  |  |  |
| F730 | 桐 | 恔 |  | 惨 | 脻 | 棫 |  | 趈 | 培 |  |  | 交 | 掬 |  |  |  |  |  |  |
| F830 | 㥍 | 䖿 |  | 澳 | 閟 | 愻 |  | 採 | 㥓 | 情 | 成， |  | 䏩 |  |  |  |  |  |  |
| F930 | 慢 | 株 |  | 蚀 | 惯 | 涵 |  | 䡃 | 值 | 㥞 |  | 象 | 歪 |  |  |  |  |  |  |
| FA30 | 鈹 | 渞 |  | 丧 | 楾 | 棵 |  | 惠性 | 項 | 慈 | 㥩 | 偖 | 楼 |  |  |  |  |  |  |
| FB30 | 㥫 | 悴 |  | 愫 | 䍃 | 㥰 |  | 棑息 | 夏 | 惊 | 樓 |  | 圆 |  |  |  |  |  |  |
| FC30 | 嗐 | 虙 |  | 䬽 | 㬱 | 怯 |  | 或t | 情 |  |  |  | 㥿 |  |  |  |  |  |  |
| FD30 | 㦀 |  |  | 莬 | 倍 | 魔 |  | 備 1 | 棏 | 楉 | 性 | 盖 | 㙪 |  |  |  |  |  |  |
| FE30 | 㑇 | 㥩 |  | 感 | 杵 | 愊 |  | 潩 | 域 | 做 | ＋ |  | 篂 |  |  |  |  |  |  |
| FF30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

8231

|  | 0 |  | 12 |  | 3 | 4 | 5 |  | 6 | 7 |  | 89 | 9 | A | B | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8030 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8130 | 胹 |  | 陋 | A | 煠 | 鬼 | ， | 㒖 | 辩 | 與 |  | 椎 | 鹤 |  |  |  |  |  |  |
| 8230 | 傕 |  | 遇 | 街 | 杪 | 性 |  | 娔 | 罍 | 㛈 |  | 旺 | 筸 |  |  |  |  |  |  |
| 8330 | 枇 |  |  | 憫 | 檟 | 慨 |  | 睢 | 戋 | 或 |  | 戈 | 哉 |  |  |  |  |  |  |
| 8430 | 城 |  | 哉 | 或 | 栈 | 気 |  | 舭 | 戟 | 晹 |  | 戬 | 载 |  |  |  |  |  |  |
| 8530 | 㦳 |  | 或庴 | 垵 | 㦿 | 庑 |  | 宝 | 扇 | 扎 |  | 扎 | 㧅 |  |  |  |  |  |  |
| 8630 | 排 |  | 搁排 | 㧈 | 抗 | 扰 |  | 状 | 托 | 㧍 |  | 㧎 | 㧑 |  |  |  |  |  |  |
| 8730 | 抆 |  | 柧挷 | 找 | 㧕 | 扰 |  | 谁 | 紫 | 挍 |  | 㧚 | 少 |  |  |  |  |  |  |
| 8830 | 摳 |  | 驾振 | 抜 | 扮 | 接 |  | 㧢 | 㧣 | 挍 |  | 㧥揓 | 㧦 |  |  |  |  |  |  |
| 8930 | 㧧 |  | 洞诚 | 诚 | 㧪 | 摘 |  | 蒘 | 梁 | 指 |  | 㧯持 | 㧰 |  |  |  |  |  |  |
| 8A30 | 舒 |  | 迷策 | 枚 | 㧴 | 怙 |  | 谢 | 掩 | 摛 |  | 持挨 | 暒 |  |  |  |  |  |  |
| 8B30 | 烼 |  | 㨬据 | 風 | 抱 | 捉 |  | 倳 | 㨁 | 㧦 |  | 掠㪇 | 㨄 |  |  |  |  |  |  |
| 8C30 | 满 |  | 妳鹪 | 等 | 掊 | 排 |  | 摘 | 㨋 | 毅 |  | 羕䛈 | 㧫 |  |  |  |  |  |  |
| 8D30 | 挨 |  | 保缷 | 授 | 挂 | 掏 |  | 城 | 揭 | 致 |  | 揟 | 搯 |  |  |  |  |  |  |
| 8E30 | 㨙 |  | 苟据 | 掿 | 㨜 | 捱 |  | 素 | 摚 | 椇 |  | 風 | 能 |  |  |  |  |  |  |
| 8F30 | 揰 | 推 | 推微 | 湤 | 推 | 掊 |  | 掏 | 厡 | 挸 |  |  | 㨬 |  |  |  |  |  |  |

8231

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 8231 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 34 | 45 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| A030 | 旃 | 族 | 㟺 | 园环 | 㫑具 | 昇㫰 | 㫓 | 星 | 㫕 |  | 㫗 |  |  |  |  |  |  |
| A130 | 否 | 㫙 | 大年 | 翟炽 | 㫛㫜 | 晅㬉 | 㫝 | 龧 | 㫟 | 畔 | 暑 |  |  |  |  |  |  |
| A230 | 㫢 | 黾 | 里苏 | 承㫥 | 㫥仿 | 㫦 | 沓 | 㫨 | 相 | 春 | 显 |  |  |  |  |  |  |
| A330 | 哅 | 昌 | 昌些 | 皆査 | 晃恠 | 䀶 | 暻 | 晫 | 唇 | 㫴 | 罪 |  |  |  |  |  |  |
| A430 | 牟 | 基 | 樶 | 建禢 | 㞕息 | 管㬉 | 㺄 | 甠 | 㫽 | 陗 | 睢 |  |  |  |  |  |  |
| A530 | 喑 | 㞕 | 咟䧉 | 禺号 | 克 | 层覞 | 受 | 㔭 | 㛟 | 㔭 | 㬛 |  |  |  |  |  |  |
| A630 | 晎 | 唍 | 家景 | 就晰 | 時盛 | 曒㬉 | 㬏 | 嘅 | 啷 | 暽 | 嘌 |  |  |  |  |  |  |
| A730 | 㬔 | 良 | 澵臨 | 問暽 | 燃犕 | 㖀咟 | 鸧 | 曒 | 険 | 啴 | 増 |  |  |  |  |  |  |
| A830 | 䖲 | 䋨 | 陾 | 筑港 | 㬡畋 | 㬢廄 | 瞏 | 晹 | 暴 | 㬦 | 錔 |  |  |  |  |  |  |
| A930 | 啉 | 昭 | 选 | 器显 | 薬良 | 嚁時 | 隠 | 線 | 嗃 | 央 | 㬱 |  |  |  |  |  |  |
| AA30 | 䰠 | 㬳 | 午㬴 | 共胶 | 胶樎 | 胿胉 | 䏹 | 㬸 | 㬹 | 勝 | 腨 |  |  |  |  |  |  |
| AB30 | 族 | 蹿 |  | 翟椸 | 膀䐁 | 鹤材 | 极 | 梸 | 构 | 㭄 | 标 |  |  |  |  |  |  |
| AC30 | 罙 | 松 |  | 柍 | 㐘梅 | 枋機 | 枓 | 㭌 | 淢 | 㭏 | 奈 |  |  |  |  |  |  |
| AD30 | 林 | 根 | 枋 | 枡枓 | 㭔杜 | 㭕 | 械 | 㭗 | 㭘 | 㭙 | 根 |  |  |  |  |  |  |
| AE30 | 㭛 | 棫 | 棫森 | 剂橉 | 柊易 | 㭟柯 | 㭠相 | 淘 | 栵 | 桐 | 㭤 |  |  |  |  |  |  |
| AF30 | 㭥 | 校 | 它衄 | 采树 | 枒标 | 㭩 ${ }^{\text {d }}$ | 㭪機 | 㭫㮒 | 㭬 |  | 筫 |  |  |  |  |  |  |

8231

|  | 0 | 1 | 2 | 2 | 3 | 4 | 45 | 5 | 6 | 7 | 8 | 8 | 9 | A | B | C | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B030 | 楫 | 巣 |  | 相 | 㭲 |  | 孝梪 | 稑 | 淘 | 枋 |  | 娚 | 㭸 |  |  |  |  |  |  |
| B130 | 梪 | 検 |  | 㭻 | 楮 | 标 | 首相 | 㮶 | 裼 | 榛 |  | 有 | 喿 |  |  |  |  |  |  |
| B230 | 㮃 | 成 |  | 㮅 | 样 |  | 棣栲 | 㮈 | 椎 | 晰 |  | 桭 | 㮌 |  |  |  |  |  |  |
| B330 | 渞 | 植 |  | 标 | 㮐 |  | 洏标 | 㮔 | 宿 | 㮔 |  | 蒾 | 样 |  |  |  |  |  |  |
| B430 | 枃 | 啟 |  | 柂 | 桌 |  | 徥楼 | 蔵 | 梅 | 相 |  | 10， | 㮠 |  |  |  |  |  |  |
| B530 | 桇 | 妳 |  | 楽 | 穼 |  | 格楼 | 溸 | 仿 | 橓 |  | 衿 | 深 |  |  |  |  |  |  |
| B630 | 㮫 | 樆 |  | 桶 | 檼 |  | 掏 | 㮰 | 棁 | 橹 |  | 椎 | 樌 |  |  |  |  |  |  |
| B730 | 門 | 㮶 |  | 展 | 檤 |  | 㮹 | 桖 | 栓 | 梅 |  | 般 | 楽 |  |  |  |  |  |  |
| B830 | 槽 | 校 |  | 防 | 槽 |  | 㮩 | 兟 | 硨 | 㠉 |  | 婓 | 钵 |  |  |  |  |  |  |
| B930 | 槺 | 枹 |  | 穎 | 樮 |  | 潾标 | 颜 | 檠 | 隍 |  | 妵 | 梘 |  |  |  |  |  |  |
| BA30 | 湌 | 桑 |  | 㯕 | 檍 |  | 関 | 棫 | 㯙 | 格 |  | 䓀 | 模 |  |  |  |  |  |  |
| BB30 | 橋 | 样 |  | 兟 | 栍 |  | 施 | 櫝 | 相 | 林 |  | 事 | 模 |  |  |  |  |  |  |
| BC30 | 榬 | 剰 |  | 预 | 棬 |  | 獻 | 造㮒 | 糥 | 䖿 |  | 摇 | 植 |  |  |  |  |  |  |
| BD30 | 衰 | 榡 |  | 故 | 楛 |  | 董 | 複 | 権 | 樌 |  | 曒 | 䑁 |  |  |  |  |  |  |
| BE30 | 毭 | 播 |  | 棁 | 棈 |  | 䀰 | 柇标 | 檪 | 橎 |  |  | 惐 |  |  |  |  |  |  |
| BF30 | 淘 | 殔 |  | 䃱 |  | 枒 | 榡泰 | 棫 | 㘈 | 楼 |  | 等 | 機 |  |  |  |  |  |  |

8231

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

8231

|  | 0 |  | 12 | 23 | 3 | 4 | 45 | 56 | 67 | 7 | 8 | 89 |  | A B |  | C D |  | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E030 | 濆 |  | 㵒抜 | 洎淘 | 渚 | 淩 | 叁㳷 | 瀿效 | 溒 | 線洤 | 柔㵙 | 㵙浒 | 浚 |  |  |  |  |  |  |
| E130 | 溇 |  | 流洨 | 滴㳔 | 漟 | 澂 | 敞㴜 | 湨浯 | 漍洨 | 汿 | 瀚 |  | 溪 |  |  |  |  |  |  |
| E230 | 滥 |  | 㵆港 | 㵧辈 | 檗 |  | 菊满 | 㴚洅 | 沮淢 | 㗜湮 | 渚 | 渚浐 | 滃 |  |  |  |  |  |  |
| E330 | 惐 |  | 㵰法 |  | 海 |  | 荗缕 |  | 睩洨 | 满 | 辦 | 解湳 | 渙 |  |  |  |  |  |  |
| E430 | 漠 |  | 㴖朗 | 漊蒗 | 泃 |  |  | 瀧䅋 | 湯洨 | 蔀 | 㜔 |  | 演 |  |  |  |  |  |  |
| E530 | 違 |  | 泪洼 | 澴汯 | 渚 |  | 横濉 | 淕涼 | 呺碞 | 激， | 湯 | 䢞限 | 㸆 |  |  |  |  |  |  |
| E630 | 濰 |  | 還啝 | 程饈 | 鳡 |  | 放浿 | 明館 | 荤嫁 | 渃 | 緆 | 滒㵅 | 䀺 |  |  |  |  |  |  |
| E730 | 筧 |  |  | 漊渘 | 轉 |  | 滨素 |  |  | 瀷 | 漟 | 需踊 | 遟 |  |  |  |  |  |  |
| E830 | 肉 |  | 炎无 | 无昫 | 昫 | 奸 | 伐灯 | 好呁 | 㶧， | 㶨 | 炏 | 㕱不 | 页 |  |  |  |  |  |  |
| E930 | 穴 |  | 炑炮 | 㶭家 | 页 | 彻 | 即䙺 | 相炼 | 㶱烣 | 㶲 | 者 | 赤㶴 | 垑 |  |  |  |  |  |  |
| EA30 | 㶵 |  | 㛄䙺 | 昫烄 | 㶸 | 娥 | 稀佑 | 娃覂 | 嵍䙺 | 㶼 | 㶽 | 㶽䙲 | 䙲 |  |  |  |  |  |  |
| EB30 | 娐 |  | 箤烺 | 桶 ${ }^{5}$ | 婜 | 食 | 食㷄 | 㷄㝡 | 聚炻 | 煌 | 筇 | 诙㛪 | 埯 |  |  |  |  |  |  |
| EC30 | 时 |  | 㷊幐 | 㷋哖 | 焬 |  | 婨焬 | 堨 ${ }^{3}$ | 积烟 | 烓 | 勿畾 | 直理 | 堣 |  |  |  |  |  |  |
| ED30 | 炮 |  | 㛚裉 | 敬歇 | 易 | 腾 | 囬熄 | 喿渞 | 㷙堵 | 㷚 | 僁 | 保缺 | 築 |  |  |  |  |  |  |
| EE30 | 炎 |  | 烓䙺 | 䐈㰫 | 緐 | 樶 | 西美 | 美嫌 | 弾 |  | 戓延 | 追弥 | 腅 |  |  |  |  |  |  |
| EF30 | 㷧 |  | 造楽 | 冢䙺 | 㷪 | 敲 | 䈁熉 | 㷬类 | 淃䙺 | 㷮 | 織 | 咲龓 | 商 |  |  |  |  |  |  |


|  | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | A | B | C | D | L | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D030 | 就 | 婊 | 颜 | 風积 | 秩 | 氨 | 氝 | 䍊 | 氨 | 軍． | 沉 | 沉 |  |  |  |  |  |  |
| D130 | 沚 | 㲻 | 汉 | 人酒 | 㳄 | 㲾 | 㲿 |  | 戈 |  | 㳂 | 浑 |  |  |  |  |  |  |
| D230 | 㳄 | 㳅 | 泣 | 斗汹 | 汶 | 湤 | 㳉 |  | 文 | 近 | 㳌 | 洨 |  |  |  |  |  |  |
| D330 | 洴 | 㳏 | 泩 | 机沮 | 湻 | 浚 | 洧 | 㳔 | 对 | 渞 | 㳖 | 㳗 |  |  |  |  |  |  |
| D430 | 流 | 淯 | 汉 | 或酒 | 泱 | 淋 | 㳝 |  | 淮 | 㯡 | 㳡 | ， |  |  |  |  |  |  |
| D530 | 㳣 | 㱫 | 洴 | 弆蓜 | 㳦 | 㳐 | 䍇 |  | 䎊 | 浯 | 囬 | 洗 |  |  |  |  |  |  |
| D630 | 深 | 源 | 㳯 | 幸型 | 㳰 | 漰 | 淤 |  | 㳳 | 街 | 浮 | 碞 |  |  |  |  |  |  |
| D730 | 海 | 㳸 | 嘟 | 汪挑 | 㳶 | 㳻 | 㚜 | 湤 | 弥 | 浣 | 漛 | 蒌 |  |  |  |  |  |  |
| D830 | 㳥 | 油 | 澋 | 家澵 | 洞 | 离 | 㴆 |  | 㚳輏 | 㴈 | 治 | 顽 |  |  |  |  |  |  |
| D930 | 沙 | 洳 | 㳶 | 桼浑 | 㴎 | 淕 | 蔀 |  | 㳯 | 膟 | 㴓 | 迢 |  |  |  |  |  |  |
| DA30 | 浯 | 㴖 |  |  | 沮 | 㴙 | 㴚 |  | 致洨 | 㴮 | 睝 | 唡 |  |  |  |  |  |  |
| DB30 | 源 | 满 | 洗 | 香限 | 洒 | 談 | 淋 |  | 能誼 | 涫 | 㴧 | 明 |  |  |  |  |  |  |
| DC30 | 罝 | 棌 | 湉 | 郘激 | 㴬 | 誼 | 湖 |  | 牀 | 減 | 湥 | 潞 |  |  |  |  |  |  |
| DD30 | 淢 | 堠 |  | 漓淮 | 潅 | 做 | 浿 |  | 迷 | 䧅 | 湘 | 滛 |  |  |  |  |  |  |
| DE30 | 㴽 | 㳊 | 洎 | 㵅游 | 㵀 | 莄 | 潶 |  | 起 | 淢 | 滇 | 洳 |  |  |  |  |  |  |
| DF30 | 蔀 | 尖 | 絃 | 溉 | 㵊 | 㵋 | 㴼 | 做 | 冏澵 | 湖 | 㴖 | 源 |  |  |  |  |  |  |

8231

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 8232 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 |  | 2 | 3 | 4 |  | 6 | 7 | 8 | 9 |  |  |  |  |  |
| 8030 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8130 | 䅫 | 狘 | 战 | 檥 | 糤 | 僰 | 㣢㺍 | 球 | 㺏 | 粥 |  |  |  |  |  |
| 8230 | 聄 | 䍚 | 㺓 | 㹶 | 触 | 㙖㣜 | 放猺 | 猚 | 璌 | 䢒 |  |  |  |  |  |
| 8330 | 㫫 | 猿 | 㺟 | 璌 | 䍜 | 翟䈏 |  | 㺘 | 罭 | 䗌 |  |  |  |  |  |
| 8430 | 㠜 | 蕩 | 趮 | 㺨 | 㺩 | 㺪 | 姑㺫 | 现 | 㺭 |  |  |  |  |  |  |
| 8530 | 㺯 | 书 | 侸 | 㺲 | 䚳 | 球 | 牫现 | 㺶 | 球 | 徍 |  |  |  |  |  |
| 8630 | 㻂 | 㺺 | 㺻 | 环 | 环 | 晍 | 同吘 | 理 | 㺺 | 㻂 |  |  |  |  |  |
| 8730 | 豊 | 㻜 | 㻅 | 瑜 | 㻇 | 全佦 | 珄牫 | 㻊 | 㻋 | 㻌 |  |  |  |  |  |
| 8830 | 㻍 | 荑 | 琭 | 瓖 | 璉㻑 | 季溷 | 園㻓 | 璉 | 㻕 | 球 |  |  |  |  |  |
| 8930 | 斐 | 哺 | 玅 | 珝 | 㻛 | 㻛珿 | 球 | 㻞 | 䞍 | 㻠 |  |  |  |  |  |
| 8A30 | 瓄 | 珕 | 㻣 | 㻤 | 唒 | 閏㻦 | 牫 | 朢 | 㻩 | 置 |  |  |  |  |  |
| 8B30 | 燡 | 殉 | 琗 | 檪 | 璩 |  | 璉理 | 㻲 | 牫 | 環 |  |  |  |  |  |
| 8C30 | 殿 | 䐙 | 瓘 | 瑁 | 鍳 | 栲匋 | 理㻻玨 | 幅 | 㻽 | 郞 |  |  |  |  |  |
| 8D30 | 㻿 | 䛭 | 珘 | 䁷 | 賋 | 琖 | 哭俨 | 萼 | 蜑 | 罜 |  |  |  |  |  |
| 8E30 | 低 | 節 | 喊 | 砸 | 㺷岳 | 退校 |  | 㺿 | 輈 | 鳰 |  |  |  |  |  |
| 8F30 | 餯 |  | 㑑 | 㜢 |  | 凩 | 瓦㼙颁 |  |  | 党 |  |  |  |  |  |

8232

|  | 0 | 1 | 2 |  | 3 | 4 | 5 | 6 |  | 7 | 8 | 9 | A | B | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9030 | 気 | 限 | 的 | 㽀 | 㼡 | 瓨 | 㼢 | 酮 | 瓦部 | 恝 | 粫 | 炾 |  |  |  |  |  |  |
| 9130 | 顷 | 哈 | 蝔 |  | 矬 | 题 | 報 | 䂏 | 䞨 | 帾 | 軗 | 解 |  |  |  |  |  |  |
| 9230 | 聝 | 酷 | 備 | 䭒 | 揭 | 䞹 | 餇 | 䣶 | 㽀部 | 效 | 瓶 | 硠 |  |  |  |  |  |  |
| 9330 | 茲 | 醇 | 㬵 | 近 | 㽀 | 鲳成 | 场 | 厥 | 成部 | 絚 | 類 | 楽 |  |  |  |  |  |  |
| 9430 | 㖘 | 㨟 | 盛裖 | 䜌 | 琵 | 臨 | 部 | 迷 | 䢒 | 部 | 甈 | 基 |  |  |  |  |  |  |
| 9530 | 助 | 断 | 模 | 鴯男 | 蛙 | 徃 | 粼 | 贯 | 䎟駆 | 助 | 旫 | 盶 |  |  |  |  |  |  |
| 9630 | 䟽 | 軍 | 确 | 句箇 | 渵 | 畾 | 㽞 | 時 | 雱略 | 唊 | 㽡 | 唒 |  |  |  |  |  |  |
| 9730 | 㖪 | 畮 | 䁖 | 柔畓 | 畾 | 珓 | 联 | 鮬 | 图眯 | 㽪 | 噙 |  |  |  |  |  |  |  |
| 9830 | 㣁 | 䍖 | 盶 |  |  | 元 | 疗 | 註 | 方疗 | 㡴 | 㾣 | 疮 |  |  |  |  |  |  |
| 9930 | 㾁 | 訧 | 疫 | 这 | 夜 | 榣 | 涴 | 溏 | 古规 | 庙 | 施 | 晐 |  |  |  |  |  |  |
| 9A30 | 㾁 | 㾌 | 庣 | 古疟 | 迪 | 书 | 㾝 | 悺 | 宜庣 | 㾈 | 㾉 | 痛 |  |  |  |  |  |  |
| 9B30 | 痳 | 病 | 㨝 | 洨碞 | 这 | 迋 | 湤 | 㾌 | 奇理 | 宛 | 凊 | 琅 |  |  |  |  |  |  |
| $9 \mathrm{C30}$ | 㾕 | 湶 | 症 | 䓹现 | 演 | 珓 | 空 | 疻 | 竞㓕 | 央 | 㾝 | 痻 |  |  |  |  |  |  |
| 9D30 | 瘠 | 㾌 | 㾝 | 垁理 | 瑓 | 㾣 | 痉 | 准 | 㑑瘒 | 培 | 准 | 訧 |  |  |  |  |  |  |
| 9E30 | 疿 | 泣 | 痕 | 䓪䀤 | 瑾 | 㾭 | 㾦 | 属 | 瘒珞 | 湖 | 境 | 礱 |  |  |  |  |  |  |
| 9F30 | 珓 | 㾝 | 砤 | 耏 | 瘏 | 既 | 凉 | 颜 | 訝 |  | 葲 | 狏 |  |  |  |  |  |  |


| 8232 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 34 | 45 | 56 | 67 | 78 | 8 | 9 | A | B C | C D | D |  | F |
| A030 | 数 | 陁 | 糤 | 閐 | 㾕理 |  | 㾔 | 檪 | 䘨 | 瘜 | 痖 |  |  |  |  |  |  |
| A130 | 榕 | 唯 | 璉 | 暒殕 |  | 楽 | 澰 | 䆝 | 疾 | 癖 | 瘊 |  |  |  |  |  |  |
| A230 | 寉 | 澵 |  | 溸㾔 | 瘾䉼 | 蔀 | 退碞 | 竅者 | 療源 | 磎 | 瑾 |  |  |  |  |  |  |
| A330 | 流 | 㾍 |  | 园的 | 的的 | 伯的 | 魭 | 自 | 閶 | 的 | 暏 |  |  |  |  |  |  |
| A430 | 磪 | 碓壁 | 的 | 詩的 | 雚的 | 暻颇 | 波 | 校建 | 她唇 | 破 | 䑤 |  |  |  |  |  |  |
| A530 | 㪉 | 效 | 袚 | 畋趂 | 被皮 | 㒛有 | 铰 | 闒 | 䜵 | 敬 |  |  |  |  |  |  |  |
| A630 | 颜 | 揭 | 交孟 | 直並 | 䓝先 | 盆 | 皿 | 盆 | 温 | 氲 | 䆝 |  |  |  |  |  |  |
| A730 | 血 | 嶉 |  | 圭 | 表献 | 筬 |  | 國 | 浧 | 魥 | 乽 |  |  |  |  |  |  |
| A830 | 鏑 | 眝 |  | 时䀐 | 即㾇 | 取盽 | 畈 | 眒 | 勖 | 明 | 㫜 |  |  |  |  |  |  |
| A930 | 眏 | 䀘 | 硍 | 物最 | 昂䀐 | 䀛 | 戓眝 | 䀝 | 䀞 | 睋 | 䀦 |  |  |  |  |  |  |
| AA30 | 䀡 | 䀢 | 碞 | 论年 | 年盽 | 瞩貯 | 䀦盯 | 䀧貯 | 䀨 | 略 | 䀪 |  |  |  |  |  |  |
| AB30 | 䀫 | 䀰 |  | 亥㫜 | 流盽 | 䀯盽 | 昐 | 䀱 | 䀲 | 䀳 | 崕 |  |  |  |  |  |  |
| AC30 | 昐 | 貯 |  | 封年 | 哲樶 | 晀佰 | 䀺 | 理盯 | 睸 | 聀 | 習 |  |  |  |  |  |  |
| AD30 | 晰 | 断聻 | 眝 | 京臨 | 緊围 | 㨬 |  | 䭒 | 䁑 | 奢 | 浝 |  |  |  |  |  |  |
| AE30 | 餉 | 䀩 |  | 荣曋 | 諎盽 | 㽣盽 | 㙒 | 榎盽 | 暎 | 晹 | 瞕 |  |  |  |  |  |  |
| AF30 | 暘 | 暖 | 睹 | 㞒賠 | 矘 | 暚 | 㜢明 | 咟 |  | 䁜 | 嫘 |  |  |  |  |  |  |

8232

|  | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 56 | 6 | 7 | 8 | 9 |  | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B030 | 智 | 䁄 |  | 嫌眝 | 畇 | 胶 | 睆 | 專喑 | 墑 | 弫 | 暔 | 䯈豬 | 歎 |  |  |  |  |  |  |
| B130 | 䊩 | 䀢 | 角鮞 | 蓒 | 㷵 | 睄 | 䀰 | 㫿 | 䕎 | 嫑 | 圙 | 㖽崚 | 嘵 |  |  |  |  |  |  |
| B230 | 䀦 | 㫑 | 荆睹 | 陔 | 瞹 | 挍 | 䅀 | 學 | 轘 | 既 | 䁘 | 睪 | 楽 |  |  |  |  |  |  |
| B330 | 睹 | 瓳 | 風而 | 藻 | 既 | 㽣 | 或榎 | 荀眯 | 曜 | 睡 | 哏 | 唯限 | 部 |  |  |  |  |  |  |
| B430 | 䄪 | 租 | 预 | 蛛 | 㮘 | 弱 | 韩韩 |  | 橿 | 稤 | 预 | 頨知 | 䂏 |  |  |  |  |  |  |
| B530 | 知 | 䋖 | 知 | 䂏疑 | 䂓 | 箤 | 䌊 | 䂕石 | 䂞 | 䂗 | 砍 | 玟砸 | 䂙 |  |  |  |  |  |  |
| B630 | 䂭 | 码 | 㖇 | 硨兂 | 䂝 | 煲 | 河架 | 架 | 䂠 | 矿 | 硌 | 栲碝 | 此 |  |  |  |  |  |  |
| B730 | 础 | 磭 | 挽 | 䂦砳 | 䂧 | 磈 | 雨碳 | 旺磁 | 硄 | 磍 |  | 畧䂭 | 䂭 |  |  |  |  |  |  |
| B830 | 䐗 | 䃏 | 砫碗 | 唎 | 挽 | 㗯 | 潳 | 唑碻 | 䂴 | 硕 | 磁 | 别碗 | 堚 |  |  |  |  |  |  |
| B930 | 䃭 | 挽 | 硂䂺 | 䂺硬 | 碱 | 确 | 矿 | 掦矿 | 磷 | 唀 | 凩 | 表挽 | 즌 |  |  |  |  |  |  |
| BA30 | 研 | 磁 | 硭碻 | 琼 | 䃅 | 䃆 | 其碑 | 楊碝 | 碌 | 碍 | 碳 | 苜 | 䃋 |  |  |  |  |  |  |
| BB30 | 硾 | 磁 | 美碻 | 磅砳 | 䃏 | 磱 | 全砅 | 龍厒 | 䃒 | 䃓 |  | 宫各 | 希 |  |  |  |  |  |  |
| BC30 | 䃇 | 酎 | 相确 | 砤砳 | 䃈 | 砢 |  | 道爯 | 詻 | 碚 | 或都 | 㧞碭 | 歇 |  |  |  |  |  |  |
| BD30 | 碝 | 确 | 圌硡 | 啕 | 码 | 硜 | 碛 | 童空 | 㢣 | 辑 | 兂 | 䁍 | 檂 |  |  |  |  |  |  |
| BE30 | 磶 | 鿬 | 㖇 | 碏碳 | 㖸 | 啈 | 倖酸 | 采醇 | 嫁 | 碔 | 或㜢 | 車磳 | 譞 |  |  |  |  |  |  |
| BF30 | 碗 | 喽 | 㜢 | 啕碇 | 嚑 | 䂸 | 䢕辰 | \％ | 磒 |  |  | 补袢 | 支 |  |  |  |  |  |  |


|  | 0 | 1 | 2 | 3 | 4 |  |  |  | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C030 | 䃾 | 枎 | 裓 | 裡 | \＃袖 | 由䄈 | 决 | 禃 | 䄅 | 袼 | 祬 | 呈 |  |  |  |  |  |
| C130 | 䄆 | 袐 | 站 | 祍 | 袮 | 枚䄍 | 䄍䄈 | 裿 | 䙡 | 际 | 祖 | 皆 |  |  |  |  |  |
| C230 | 衿 | 䄓 | 裡 | 福 | 奇䄖 |  | 視 | 袄 | 袼 | 糟 | 褚 | 婁 |  |  |  |  |  |
| C330 | 䄈 | 裬 | 襙 | 䖥 | 䄈 | 容袻 | 儉祩 | 裱 | 墒 | 桷 |  | 重 |  |  |  |  |  |
| C430 | 䄦 | 䄧 | 秆 | 秫 | 称 | 程 | 䄫程 | 种 | 秆 | 秋 | 积 | 枅 |  |  |  |  |  |
| C530 | 䄰 | 䄱 | 种 | 䄳 | 积 | 明 | 委稆 | 秧 | 䄷 | 䄸 | 奔 | 舍 |  |  |  |  |  |
| C630 | 桋 | 秋 | 稆 | 㮩 |  | 或和 | 皒稱 | 利 | 案 | 䅂 | 各喿 | 喿 |  |  |  |  |  |
| C730 | 移 | 程 | 秋 | 菜 |  | 漛程 | 程程 | 程 | 䅋 | 䅌 | 莬积 | 廷 |  |  |  |  |  |
| C830 | 䅎 | 䖽 | 䅐 | 穏 | 程 | 珫程 | 知和 | 敉 | 䅕 | 䄽 | 电䅗 | 委 |  |  |  |  |  |
| C930 | 稆 | 程 | 楼 | 程 | 種 | 垂穏 | 椌利 | 稆 | 程 | 䅡 | 樓程 | 連 |  |  |  |  |  |
| CA30 | 䅣 | 䅛 | 榾 | 稃 |  | 都稱 | 䅨程 | 積 | 栍 | 稤 | 积 | 整 |  |  |  |  |  |
| CB30 | 樟 | 楮 | 稢 | 程 | 楾 | 嘡 | 楮程 | 䊈 | 榡 | 䅵 | 䅋 | 寿 |  |  |  |  |  |
| CC30 | 榣 | 䅞 | 䅹 | 喘 |  | 樀策 | 㖟 | 鶑 | 箘 | 䅉 | 榣 | 理 |  |  |  |  |  |
| CD30 | 䆁 | 橧 | 巣 | 䅹 | 程 | 䚌棌 | 稆程 | 稢 | 酝 | 䇾 | 穛 | 謴 |  |  |  |  |  |
| CE30 | 稳 | 程 | 程 | 程 |  | 䔬： | \％ | ， | 窥 | 完 | 曻 | 分 |  |  |  |  |  |
| CF30 | 突 |  | 䀂 | 曻 |  |  |  |  |  |  |  |  |  |  |  |  |  |


|  | 0 | 1 | 2 | 3 | 4 | 45 | 56 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
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| D030 | 容 | 窘 | 筦 | 筄 | 䆣 | 食 | 穿 | 家 | 穴 | 容 | 资 |  |  |  |  |  |  |
| D130 | 寞 | 熎 | 空 | 㲾 |  | 通 | 腺 | 宛 | 瞾 | 空 | 寝 |  |  |  |  |  |  |
| D230 | 沮 | 宪 |  | 镜 |  | 客 | 察 | 䆹 | 審 | 㝡 | 䯔 |  |  |  |  |  |  |
| D330 | 缐 | 監 | 寝 | 家㽭 |  |  | 立 | 氾 | 䇄 | 䇅 | 㖪 |  |  |  |  |  |  |
| D430 | 泯 | 迋 | 站 | 埌 |  | 将 | 消 | 浞 | 徣 | 竨 | 就 |  |  |  |  |  |  |
| D530 | 渒 | 医 | 18 | 㑥 |  | 需 | 箷 | 笉 | 管 | 管 | 䈨 |  |  |  |  |  |  |
| D630 | 䇥 | 笑 | 䇝 | 筸 |  | 箷等 | 筀 | 䇡 | 䇢 | 策 | 笑 |  |  |  |  |  |  |
| D730 | 䇥 | 笑 | 䈌 | 䇨 | 䖝 | 完宔 | 䇪 | 䇫 | 篓 | 笔 | 篗 |  |  |  |  |  |  |
| D830 | 管 | 箓 | 䈅 | 箺 |  | 䇝第 | 䇴 | 䇵 | 筩 | 笳 | 筀 |  |  |  |  |  |  |
| D930 | 箬 | 䇺 | 筀 | 管 | 筇 | 管 | 管 | 策 | 䈈 | 篇 | 算 |  |  |  |  |  |  |
| DA30 | 管 | 笉 | 䈅 | 笑 |  | 䈞解 | 籑 | 管 | 䈠 | 筧 | 䈌 |  |  |  |  |  |  |
| DB30 | 管 | 篓 | 䈏 | 筬铰 | 䈅 | 笴筬 | 䈒 | 筍 | 穊 | 筧 | 箱 |  |  |  |  |  |  |
| DC30 | 篗 | 䈘 | 疑 | 篇 |  | 交箁 | 笋 | 筬 | 管 | 第 | 篂 |  |  |  |  |  |  |
| DD30 | 筍 | 第 | 竾 | 箱 |  | 㫋管 | 笙 | 䉆 | 篒 | 第 | 第 |  |  |  |  |  |  |
| DE30 | 箷 | 洨 | 䈭 | 篅 |  | 真罭 | 簎 | 䉣 | 簪 | 第 | 第 |  |  |  |  |  |  |
| DF30 | 䈅 |  | 等 | 第 |  |  |  |  |  |  | 箱 |  |  |  |  |  |  |


| 8232 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| E030 | 筫 | 䉀 | 篬 | 筧 | 節 | 節 | 簕 | 気䉆 | 算 | 笅 |  |  |  |  |  |  |
| E130 | 箱 | 箦 | 穊 | 賎 | 简 | 等 | 篰 | 答 | 筀簀 | 䉒 |  |  |  |  |  |  |
| E230 | 箖 | 節 | 篔 | 箸 | 令筑 | 榣 | 殡 | 筧 | 筒 | 矱 |  |  |  |  |  |  |
| E330 | 䉝 | 䌣 | 推 | 锁 | 䈅 | 篱 | 䉆 | 第 | 交掊 | 管 |  |  |  |  |  |  |
| E430 | 蓟 | 鳐 | 䌊 | 筬 | 䈴 | 穊 | 篅 | 簡 | 筫 | 箬 |  |  |  |  |  |  |
| E530 | 篗 | 䈅 | 鲜 | 䦅䈅 | 荗管 | 䇱 | 第 |  |  | 柇 |  |  |  |  |  |  |
| E630 | 秖 | 䉼 | 料 | 栔 | 策䉿 | 粘 | 秩 | 䊅 | 术厢 | 集 |  |  |  |  |  |  |
| E730 | 移 | 粆 | 䊇 | 甫䊈 | 每䊇 | 粍 | 粦 | 維 |  | 鈢 |  |  |  |  |  |  |
| E830 | 秋 | 枇 | 粘 | 䊒 | 雅䊀 | 模 | 䊕 | 建䊖 | 南䊗 | 精 |  |  |  |  |  |  |
| E930 | 集 | 暞 | 程 | 樓䊜 | 䑶楼 | 樀 | 㮖 | 策篓 | 尤㖟 | 槳 |  |  |  |  |  |  |
| EA30 | 䊣 | 槁 | 倳 | 糦 | 嬄顀 | 碗 | 粕 | 糢 | 萬梆 | 楽 |  |  |  |  |  |  |
| EB30 | 精 | 櫂 | 棲 | 辢 | 㶆棫 | 粟 | 糖 | 楛 | 筬䊵 | 約 |  |  |  |  |  |  |
| EC30 | 紂 | 䊸 | 納 | 于迫 | 互绅 | 䊼 | 䊽 | 央䊾 | 材䊿 | 廀 |  |  |  |  |  |  |
| ED30 | 䋁 | 䋂 | 絧 | 目䋄 | 网絔 | 紬 | 絼 | 絮 | 永䋉 | 納 |  |  |  |  |  |  |
| EE30 | 紀 | 糽 | 䋍 | 刘組 | 且䋏 | 戒 | 納 | 丙䋒 | 可䇶 | 縟 |  |  |  |  |  |  |
| EF30 | 䋕 | 䋖 | 䋗 | 綀 | 朿组 | 䌻 | 䋛 | 發 | 䍃 | 網 |  |  |  |  |  |  |

8232

|  | 0 |  | 12 | 2 | 3 |  | 45 | 5 | 6 | 7 | 8 | 8 | 9 | A | B | C | D | E | F |
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| F030 | 䋟 |  | 甫䌊 | 䋡 | 絮 | 等诲 | 䋣 | 㹲 | 綞 | 緺 | 每綟 | 䋧 | 䋨 |  |  |  |  |  |  |
| F130 | 䋩 |  | 洞䌊 | 䋫 | 緑 | 漾紼 | 法䊽 | 殓 | 繁 | 緜 | 曒䋛 | 綀 | 絽 |  |  |  |  |  |  |
| F230 | 線 |  | 渘組 | 䋵 | 總 | 新 | 慗 | 緛 | 絽 | 㫛莪 | 我絃 | 絓䊽 | 䋹 |  |  |  |  |  |  |
| F330 | 絓 |  | 特細 | 繯 | 絆 | 科總 | 䫁 | 哏 | 湯 | 絞 | 更絾 | 絾 | 䌆 |  |  |  |  |  |  |
| F430 | 縖 |  | 搨䌊 | 经 | 䍃 | 䍇綘 | 嫘 | 紋 | 㹏 | 㭉䑐 | 罂絃 | 䋉䊽 | 䋩 |  |  |  |  |  |  |
| F530 | 緆 |  |  | 繁 | 継 | 磌編 | 绞浐 | 䌚 | 䇺 | 䇣 | 豯絃 | 䌙 | 䋛 |  |  |  |  |  |  |
| F630 | 嗉 |  | 楊稱 | 絲 | 䌞 | 殮荗 | 释 | 㢣 | 絗 | 紱 | 雨䋛 | 縮 | 䋞 |  |  |  |  |  |  |
| F730 | 絖 |  | 嬥縑 | 絽 |  | 基綡 | 緎 | 繝 | 緟 | 綂 | 䧸䖻 | 繰 | 繧 |  |  |  |  |  |  |
| F830 | 䌯 |  | 缉䋛 | 緟 | 䌯 | 䓒缃 | 漕 | 縵 | 源 | 约 | 才㧒 | 䌸细 | 缃 |  |  |  |  |  |  |
| F930 | 组 |  | 羽织 | 䌼 | 䌽 | 采维 | 䌾组 | 䌿 | 嚂 | 咕 | 道缸 | 㓡 | 䍃 |  |  |  |  |  |  |
| FA30 | 䍄 |  | 䤅 | 釈 | 垁 | 造 | 缶 | 铞 | 䍊 | 交蛼 | 隹䍌 | 锫 | 狡 |  |  |  |  |  |  |
| FB30 | 锐 |  | 四 | 睪 | 閩 | 早束 | 䍒 | 䍓 | 䍔 | 買 | 罭里 | 蜀 | 䍗 |  |  |  |  |  |  |
| FC30 | 䍘 |  | 蜀 | 膡 | 固 | 圆䍜 | 䍜 | 罨 | 或 | 滈 | 園榞 | 蜀 | 閎 |  |  |  |  |  |  |
| FD30 | 罵 |  | 罟 | 罢 | 展 |  | 羅 | 䍧 | 劷 |  | 解 | 䇐 | 角 |  |  |  |  |  |  |
| FE30 | 烊 |  | 欮羒 | 絩 | 䍴 | 帱叛 | 絪 | 䍱 | 朔 | 㲏 | 獾䍩 | 躍 | 䍵 |  |  |  |  |  |  |
| FF30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


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| 8030 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8130 | 䍶 | 䍷 | 秿 | 欮 | 鰠 | 㖕 | 算 | 哖 | 洞 | 䍿 |  |  |  |  |  |  |
| 8230 | 找 | 胡 | 埆 | 觟 | 塁 | 的 | 翏 | 解 | 战 | 域 |  |  |  |  |  |  |
| 8330 | 䦀 | 部 | 哫 | 韨 | 珽 | 舒 | 朝 | 聶 | 諓 | 銧 |  |  |  |  |  |  |
| 8430 | 璉 | 等 | 㽬 | 絾 | 檞 | 嬥 | 摜 | 䂞 | 䇭 | 㮄 |  |  |  |  |  |  |
| 8530 | 考 | 如 | 腼 | 荗 | 紇 | 积 | 粉 | 栓 | 秋 | 棓 |  |  |  |  |  |  |
| 8630 | 榡 | 綃 | 䊑 | 㖟 | 糙 | 樀 | 緓 | 精 | 取 | 䎳 |  |  |  |  |  |  |
| 8730 | 䎴 | 耴 | 輯 | 联 | 㕶 | 番 | 懒 | 晍 | 䎼 | 恉 |  |  |  |  |  |  |
| 8830 | 隃 | 橄 | 影 | 乵 | 㙏 | 职 | 竝 | 僜 | 䏆 | 䏇 |  |  |  |  |  |  |
| 8930 | 聨 | 櫚 | 誰 | 蓗 | 住 | 䏍 | 肌 | 肝 | 胦 | 㯡 |  |  |  |  |  |  |
| 8A30 | 䏒 | 阮 | 腘 | 胿 | 柕 | 肮 | 脂 | 肬 | 䏚 | 䏛 |  |  |  |  |  |  |
| $8 \mathrm{B30}$ | 服 | 䏞 | 腥 | 䏠 | 䏡 | 䏢 | 䏣 | 䏤 | 両 | 䏦 |  |  |  |  |  |  |
| 8C30 | 䏧 | 胉 | 䏩 | 䏪 | 䏫 | 䏬 | 珠 | 䏛 | 胠 | 䏰 |  |  |  |  |  |  |
| 8D30 | 䏤 | 䏲 | 析 | 䏴 | 胧 | 脡 | 朝 | 䏸 | 朊 | 胮 |  |  |  |  |  |  |
| 8E30 | 䏻 | 㳀 | 䏽 | 脙 | 啓 | 䐀 | 豚 | 䐂 | 婟 | 䐄 |  |  |  |  |  |  |
| 8F30 | 腒 | 䐆 | 脂 | 䐈 | 㮨 | 䐊 | 腍 | 费 | 随 | 䐎 |  |  |  |  |  |  |

8233

|  | 0 |  | 12 | 23 | 314 |  |  | 6 | 7 | 88 | 819 | 9 A | A B | 3 C | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9030 | 䐗 |  | 淢芽 | 脜璃 | 膀胶 | 頇 | 偐 | 唨 | 服 | 陼䐗 | 陼缕 | 廈 |  |  |  |  |  |  |
| 9130 | 嘩 |  | 哏䐘 |  | 䐜顼 | 㜢 |  | 膃 | 脱 |  |  | 陶 |  |  |  |  |  |  |
| 9230 | 脫 |  | 送渗 | 腧㭙 | 㓐肠 | 高商 | 脐 | － | 㹸 | 䂠脑 | 膠谐 | 䀧 |  |  |  |  |  |  |
| 9330 | 隡 |  | 障脒 | 瞋脚 | 腈腑 | 䐱暚 |  | 蚏 | 蔇 | 第䐵 | 䐵腿 | 栢 |  |  |  |  |  |  |
| 9430 | 開 | 限 | 璄 | 䐬谐 | 䐺肠 | 障服 |  | 满 | 勝愺 | 圉朠 | 䐿㹂 | 澼 |  |  |  |  |  |  |
| 9530 | 骨 |  | 宾䐗 |  | 䐆肨 | 婹偁 | 脫 | 腫 | 膦 | 㒸匋 |  | 遭 |  |  |  |  |  |  |
| 9630 | 颜 |  | 攻 | 膠㷲 | 蚏拺 | 淮臨 | 䑐 | 閾 | 莡到 | 㳄囯 | 量时 | 帕 |  |  |  |  |  |  |
| 9730 | 凮 | 㫸 | 倢的 | 晹㫧 | 暛乱 | 禹簵 | 䑚 | 䑛 | 篊 | 硭開 | 衡氟 | 枵 |  |  |  |  |  |  |
| 9830 | 㸤 | 䑸 | ］般 | 般航 | 航舫 | 解的 | 紷 | 般 | 䑦 | 䑦艁 | 时䑼 | 艁 |  |  |  |  |  |  |
| 9930 | 䑩 |  | 㢵艄 | 解舭 | 艄舵 | 斬艆 | 紛 | 綈 | 弟舸 | 舫䑱 | 䛷䑲 | 綽 |  |  |  |  |  |  |
| 9A30 | 䑳 |  | 基船 | 盘艆 | 䑶艁 |  | 䑸 | 舷 | 新舰 | 㓌舫 | 游舷 | 鸱 |  |  |  |  |  |  |
| 9B30 | 蹋 | 䑤 |  |  | 解䑤 | 閶待 | 綂 | 㘕 | 䑨 | 囯艧 |  | 歓 |  |  |  |  |  |  |
| 9C30 | 艁 | 艆 | 真緺 | 鋔刢 | 㙰越 |  | 盷 | 郶 | 免咜 | 解譄 | 䱒鲴 | 鲕 |  |  |  |  |  |  |
| 9D30 | 欮 | 芽 | 苟考 | 䒓父 | 父寺 | 寺 | 载 | 艺 | 交 | 交苫 | 䒙䒚 | 步 |  |  |  |  |  |  |
| 9E30 | 站 | 苼 | 苼芝 | 艾芚 | 若具 | 寺 | 書 | 荫 | 茧 | 却寺 | 草 | 苜 |  |  |  |  |  |  |
| 9F30 | 带 |  | 茥艺 | 䒧矣 | 垁乒 | 荣并 | 真 | 䒫 | 䒬 | 先等 |  | 瓯 |  |  |  |  |  |  |


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| A030 | 冣 | 茞 | 䒱 | 姓 | 葉 | 若 | 娃 | 茹 | 苦 | 萝 |  |  |  |  |  |  |
| A130 | 葉 | 䓠 | 罭 | 䒼 | 满 | 䒾 | 䒿 | 苦 | 等 | 菅 |  |  |  |  |  |  |
| A230 | 薥 | 䓄 | 菏 | 䓆 | 荂 | 䕅 | 芽 | 菪 | 茷 | 芯 |  |  |  |  |  |  |
| A330 | 草 | 䓎 | 苦 | 菴 | 洔 | 苗 | 䒴 | 莩 | 选 | 坴 |  |  |  |  |  |  |
| A430 | 蔥 | 苼 | 篗 | 萄 | 洼 | 䒸 | 荙 | 䓟 | 苓 | 知 |  |  |  |  |  |  |
| A530 | 落 | 再 | 芴 | 拿 | 黄 | 䓵 | 䔄 | 䓩 | 䓪 | 䓫 |  |  |  |  |  |  |
| A630 | 草 | 莉 | 葹 | 蔪 | 董 | 薬 | 葆 | 䓳 | 薎 | 茄 |  |  |  |  |  |  |
| A730 | 莿 | 洐 | 茹 | 蕰 | 芙 | 萜 | 蒔 | 范 | 蔆 | 荎 |  |  |  |  |  |  |
| A830 | 䔀 | 薬 | 莘 | 稙 | 䔄 | 蔀 | 蓗 | 䇺 | 鿓 | 䔉 |  |  |  |  |  |  |
| A930 | 墊 | 緒 | 幕 | 䔍 | 䔎 | 䔎 | 薄 | 蒢 | 䔒 | 乼 |  |  |  |  |  |  |
| AA30 | 筧 | 萍 | 䔖 | 䒜 | 䒸 | 漖 | 薩 | 頃 | 荫 | 蔡 |  |  |  |  |  |  |
| AB30 | 䔞 | 䔟 | 稙 | 䔡 | 蒔 | 苼 | 萌 | 萧 | 䊈 | 䊍 |  |  |  |  |  |  |
| AC30 | 䔨 | 䔩 | 萶 | 踈 | 䔬 | 電 | 蕗 | 撂 | 葍 | 薄 |  |  |  |  |  |  |
| AD30 | 䔲 | 蔡 | 璷 | 蕑 | 豚 | 菜 | 滎 | 䔹 | 堕 | 政 |  |  |  |  |  |  |
| AE30 | 落 | 蕩 | 菢 | 蒪 | 䕀 | 薬 | 蓬 | 蕯 | 斋 | 值 |  |  |  |  |  |  |
| AF30 | 䓫 | 宏 | 蔣 | 薯 | 朢 | 菬 | 䕌 | 蒚 | 䕎 | 莩 |  |  |  |  |  |  |

8233

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 |  | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B030 | 萂 | 絞 | 䓵 | 蔡 | 荇 | 萡 | 㵆 | 圌 | 萁 | 蕷 | 蔵 |  |  |  |  |  |  |
| B130 | 蔶 | 薪 | 萃 | 萄 | 閧 | 蓟 | 䓦 | 等膶 | 蕳 | 蓬 | 鸱 |  |  |  |  |  |  |
| B230 | 䩵 | 薢 | 涼 | 萄 | 藤 | 䕩 | 薭 | 萃営 | 蔼 | 蕩 | 䔀 |  |  |  |  |  |  |
| B330 | 蔁 | 效 | 㭠 | 頍 | 蓳 | 淗 | 䔋 | 萑 | 惐 | 護 | 蔡 |  |  |  |  |  |  |
| B430 | 聕 | 䕹 | 稂 | 䍖 | 曐 | 䓪 | 瀻 | 䧼部 | 鸹 | 䁇 | 騂 |  |  |  |  |  |  |
| B530 | 牵 | 都 | 維 | 稆 | 䔛 | 铝 | 虎 | 寿 | 豦 | 婋 | 䖒 |  |  |  |  |  |  |
| B630 | 劇 | 度 | 䖎 | 覤 | 吥 | 限 | 䖒 | 新 | 䗂 | 䖔 | 値 |  |  |  |  |  |  |
| B730 | 䗌 | 虔 | 裉 | 籑 | 㓟 | 校 | 槪 | 早 | 䖝 | 朗 | 董 |  |  |  |  |  |  |
| B830 | 血 | 鱀 | 䖢 | 蚔 | 䖯 | 䖥 | 拙 | 迷 | 㨡 | 䖨 | 虭 |  |  |  |  |  |  |
| B930 | 䖪 | 䖫 | 䖬 | 糔 | 䖮 | 表 | 蚛 | 蚛 | 恇 | 䖲 | 䖳 |  |  |  |  |  |  |
| BA30 | 䖴 | 䖵 | 䖶 | 䖷 | 蝺 | 虷 | 䖺 | 匋 | 䖻 | 蜴 | 鋫 |  |  |  |  |  |  |
| BB30 | 㤝 | 䖿 | 蛙 | 䗁 | 蜮 | 㖪 | 㨁 | 多 | 蛣 | 䗆 | 虾 |  |  |  |  |  |  |
| BC30 | 站 | 竡 | 藤 | 蝶 | 煋 | 蛨 | 蚟 | 珃 | 婎 | 血 | 䗒 |  |  |  |  |  |  |
| BD30 | 或 | 蚫 | 蜄 | 畡 | 䗖 | 斻 | 蛙 | 奎 | 塞 | 蜅 | 蜔 |  |  |  |  |  |  |
| BE30 | 䗜 | 搔 | 会 | 蜸 | 䖝 | 蜽 | 蠸 | 遠 | 䓡 | 䗧 | 蛻 |  |  |  |  |  |  |
| BF30 | 蛒 | 承 | 䗨 | 城 | 膺 | 蛑 | 䲢 | 涘 | 遱 | 䖴 | 婎 |  |  |  |  |  |  |


| 8233 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 |  | 2 |  | 4 | 5 | 6 |  |  | 9 A |  |  |  | E | F |
| C030 | 蛽 | 䗨 | 䗇 | 閐䗳 | 蹬乿 | 趗蝠 | 蝎 | 䗷 | 㻿 | 䗢 |  |  |  |  |  |
| C130 | 撋 | 䇶 | 蝩 |  | 進嵒 | 國啂 | 穓 | 艃 | 琙 | 蛀 |  |  |  |  |  |
| C230 | 者 |  |  | 遟 | 琉就 | 列甞 |  | 蜮 | 屋 | 眰 |  |  |  |  |  |
| C330 | 㛫 | 䘏 | 㠴 | 永 | 昹酸 | 嵈 | 略 | 衍 | 術 | 㙰 |  |  |  |  |  |
| C430 | 街 | 街 | 卒 | 祅 | 机衶 | 禡 | 祃 | 初 | 䘸 | 㱔 |  |  |  |  |  |
| C530 | 䘢 | 祖 | 䘤 | 神 | 鿆 | 尼裌 | 校 | 袧 | 祛 | 㕵 |  |  |  |  |  |
| C630 | 裓 | 䘭 | 表 | 䘯 | 消䘰 | 廷裏 | 裍社 | 䘳 | 褛 | 䘵 |  |  |  |  |  |
| C730 | 袘 | 袻 | 袨 | 椊 | 卒䘺 | 定祫 | 梡 | 梲䄈 | 䘾 | 裾 |  |  |  |  |  |
| C830 | 初 | 褚 | 䙂 | 䄇 | 有裱 | 䙅 | 榽 | 噯 | 裖 | 裉 |  |  |  |  |  |
| C930 | 䙦 | 楦 | 械 | 䙎 | 風補 | 禍 | 滾 | 䄜圱 | 䙓 | 福 |  |  |  |  |  |
| CA30 | 褯 | 袘 | 䙗 | 棫 | 棫禓 | 確 | 滾 | 袼 | 㖣 | 䙞 |  |  |  |  |  |
| CB30 | 襠 | 裖 | 檍 | 棭 | 棑䘯 | 䄈 | 䙦 | 稱 | 裸 | 䙮 |  |  |  |  |  |
| CC30 | 譍 | 䙎 | 櫻 | 褠 | 權 | 䙰 | 襍晾 | 權 | 䙲 | 覀 |  |  |  |  |  |
| CD30 | 要 | 㽬 | 眺 | 杽 | 呈园过 | 形 | 䙺 | 椇 | 觀 | 䆓 |  |  |  |  |  |
| CE30 | 視 | 梘 | 䚀 | 䙾 | 䐣執 | 园战 | 梘 | 效 | 䙼 | 䜋 |  |  |  |  |  |
| CF30 | 睍 |  | 頝 | 闃 | 見喤 | 垷 | 䂓 | 䙻 |  | 覞 |  |  |  |  |  |

8233

|  | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | A | A |  | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D030 | 疑 | 野 | 親 | 覙唇 |  | 覥 | 鬿 | 街 | 解 |  | 絓解 | 詰 |  |  |  |  |  |  |
| D130 | 牌 | 解 | 䚡 | 闌能 | 枸 | 觡 | 覱 | 解 | 觬 | 鲢 | 鋰館 | 羁 |  |  |  |  |  |  |
| D230 | 餽 | 解 | 解 | 鑵解 | 蛙 | 䲞 | 牧 | 䚬 | 觹 | 訯 | 码䛎 | 产 |  |  |  |  |  |  |
| D330 | 䛉 | 䚯 | 䏛 | 彭詿 | 䚳訜 | 䚴 | 䚵 | 訞 | 䚷 | 号訜 | 籶 | 紶 |  |  |  |  |  |  |
| D430 | 放 | 各 | 梯 | 讯話 | 䚽詿 | －1 | 䚿 | 䛀 | 識 | \＃娞 | 升 | 䛃 |  |  |  |  |  |  |
| D530 | 詋 | 評 | 䛞 | 時設 | 詔詨 | 矩 | 䛊 | 䛊 | 誡 | 訽 | 䛌語 | 㭏 |  |  |  |  |  |  |
| D630 | 䛎 | 記 | 碚 | 奢呓 | 匂 | 装 | 䇾 | 䛔 | 丳 | 詨浬 | 諟巨 | 狺 |  |  |  |  |  |  |
| D730 | 詵 | 䛙 | 敕 | 翌誼 | 相脑 | 䛬 | 潩 | 䛞 | 䛟 | 閶炀 | 軦話 | 任 |  |  |  |  |  |  |
| D830 | 談 | 晹 | 䛤 | 哫語 | 希晹 | 說 | 鏻 | 䛨 | 癷 | 諢 | 諒謃 | 䛫 |  |  |  |  |  |  |
| D930 | 䏛 | 䛨 | 䛭 | 詮訵 | 䛯晹 | 䛰 | 蚂 | 䛲 | 䜕 |  | 䛴䛊 | 䛵 |  |  |  |  |  |  |
| DA30 | 誎 | 詨 | 完誢 | 䛠語 | 葷 | 䛺 | 話 | 娞 | 偊 | 動域 | 宪語 | 諣 |  |  |  |  |  |  |
| DB30 | 噼 | 謁 | 気詚 | 楊部 | 壁諯 | 洪 | 謢 | 磨 | 喰 |  | 謎話 | 漆 |  |  |  |  |  |  |
| DC30 | 䛾 | 謮 | 絰 | 絡恶 | 㟟恶 | 㖴 | 䓵 | 粱 | 詵 | 誢 | 奥諲 | 謹 |  |  |  |  |  |  |
| DD30 | 誥 | 満 | 讀 | 蕒話 | 域陽 | 晗 | 諨 |  | 詵 | 姯 | 愘誰 | 囀 |  |  |  |  |  |  |
| DE30 | 㭏 | 㦹 | 説 | 㰫 | 㙘 | 譨 | 猉 | 䢙 | 㗆 | 㨁呺 | 的上运 | 栜 |  |  |  |  |  |  |
| DF30 | 䜪 | 䜫 | T ${ }^{\text {a }}$ | 围室 |  |  | 鵒 | 锗 | 變 | 或誁 | 罭呈 | 한 |  |  |  |  |  |  |

8233

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :---: | :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

8233

|  | 0 |  | 12 | 2 | 3 | 4 | 5 | 56 | 6 | 7 | 8 | 819 | 9 A |  | B | C D | D |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F030 | 酔 | 碇 | 跃跤 | 研 | 跀 | 跣 | 路 | 䟱路 | 䟛 | 䬤 |  | 䟞原 | 㞕 |  |  |  |  |  |  |
| F130 | 践 | 或趾 | 跃 | 跑 | 䟣 | 路 | 跳 | 践 | 焁 | 䟧 | 跟 | 展趷 | 䟩 |  |  |  |  |  |  |
| F230 | 距 | 少 | 党里 | 近 | 䟭 | 趿 | 跉 | 括趷 | 题 | 踈 |  | 䟽践 | 遙 |  |  |  |  |  |  |
| F330 | 蹅 | 䟲 | 䟵路 | 脞 | 䟭 | 兂 | 砯 | 跱路 | 䟺 | 䟻 | 余践 | 践跡 | 硫 |  |  |  |  |  |  |
| F430 | 䟾 | 呚跱 | 䟿路 | 䠀 | 跣 | 根 | 路 | 诵路 | 跳 | 啕 | 囯璐 |  | 共 |  |  |  |  |  |  |
| F530 | 䠈 | 事路 | 踦跬 | 趾 | 䠋 | 踦 | 號罷 | 㗇䟚 | 部 | 䠦 | 踇 | 治路 | 甤 |  |  |  |  |  |  |
| F630 | 政 | 虽䠀 | 蹲路 | 路 | 跣 | 路 | 䠔 | 跨䟚 | 路 | 路 |  | 貯 |  |  |  |  |  |  |  |
| F730 | 踇 |  | 䠝跋 | 牥 | 跣 | 震 | 踣 | 震 | 类 | 䠣 | 品號 | 踷路 | 政 |  |  |  |  |  |  |
| F830 | 䟴 | 成路 | 睹䟢 | 臨 | 践 | 踇 | ＋ | 䟿 | 潞 | 豏 |  | 遠路 | 踰 |  |  |  |  |  |  |
| F930 | 䠰 | 路墭 | 颔射 | 秢 | 䳕 | 䠴 | 立射 | 射身 | 䠶 | 艥 |  | 㧎新 | 铱 |  |  |  |  |  |  |
| FA30 | 躳 | 可躬 | 舫㝃 | 匌 | 侣 | － |  | 隤射 | 妬 | 㰕 | 車 | 䡂軟 | 䡧 |  |  |  |  |  |  |
| FB30 | 軌 | 暒 | 䡅較 | 䡆 | 転 | 較 | 朝 | 轄 | 䡊 | 較 |  | 罭䡍 | 献 |  |  |  |  |  |  |
| FC30 | 䡎 | 施 | 影輚 | 䡐 | 軹 | 韩 |  | 街旺 | 輰 | 繋 |  | 軽発 | 翚 |  |  |  |  |  |  |
| FD30 | 䓪 | 匀旿 | 䡙較 | 䩳 | 䡛 | 軯 |  | 㫋 | 量 | 輁 | 軲 | 軨軾 | 軽 |  |  |  |  |  |  |
| FE30 | 鿂 | 它銻 | 䩵粦 | 䓰 | 䡥 | 軲 | 真喤 | 鹃 | 䡤 | 軦 | 克輬 | 鏑輠 | 䡫 |  |  |  |  |  |  |
| FF30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8030 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8130 | 轘 | 鎐 | 軴 | 軳 | 䉓 | 軳 | 暲 | 乹 | 輤 | 輠 |  |  |  |  |  |
| 8230 | 軽 | 軖 | 嚷 | 轎 | 覱 | 晹 | 轅 | 䡛 | 轅 | 軾 |  |  |  |  |  |
| 8330 | 䢀 | 仵 | 䢂 | 碇 | 䌽 | 展 | 䄍 | 旌 | 屋 | 祳 |  |  |  |  |  |
| 8430 | 这 | 辺 | 栜 | 䢍 | 䢎 | 进 | 䢙 | 䢑 | 这 | 这 |  |  |  |  |  |
| 8530 | 䢔 | 䢕 | 建 | 䢗 | 景 | 䢙 | 串 | 通 | 遈 | 浐 |  |  |  |  |  |
| 8630 | 速 | 敨 | 选 | 遝 | 通 | 迢 | 磻 | 退 | 违 | 選 |  |  |  |  |  |
| 8730 | 选 | 䢟 | 通 | 侤 | 噵 | 逞 | 通 | 造 | 暹 | 遺 |  |  |  |  |  |
| 8830 | 碭 | 郘 | 邢 | 动 | 䢶 | 那 | 郎 | 耶 | 䢺 | 䢻 |  |  |  |  |  |
| 8930 | 斯 | 巷 | 矨 | 䢿 | 部 | 䣕 | 籿 | 卸 | 䣄 | 层 |  |  |  |  |  |
| 8A30 | 嫁 | 部 | 㯺 | 等 | 能 | 䣋 | 腩 | 部 | 部 | 佳 |  |  |  |  |  |
| 8B30 | 鄚 | 唇 | 缡 | 䣓 | 伿 | 䣕 | 䣖 | 新 | 部 | 窚 |  |  |  |  |  |
| 8C30 | 數 | 䭫 | 震 | 腒 | 解 | 鲉 | 㳻 | 號 | 霹 | 陲 |  |  |  |  |  |
| 8D30 | 旗 | 配 | 䣦 | 酺 | 酺 | 配 | 師 | 䣫 | 䣬 | 䣭 |  |  |  |  |  |
| 8E30 | 䣬 | 顛 | 䣰 | 䣱 | 䣲 | 䣩 | 盶 | 䣵 | 䣻 | 䣷 |  |  |  |  |  |
| 8F30 | 先 | 䣨 | 醇 | 酮 | 䣼 | 敨 | 䣾 |  |  | 醋 |  |  |  |  |  |

8234

|  | 0 | 1 | 2 |  | 3 | 4 | 5 | 6 | 7 |  | 8 | 9 | A |  | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9030 | 醒 | 䤃 | 面 | 臬醇 | 䤅 | 酶 | 酹 | 醀 | 酰 | 嫘䣨 | 嗬 | 戴 |  |  |  |  |  |  |
| 9130 | 䤌 | 酔 | 酸 | 馬酎 | 酔 | 酷 | 䤑 | 醸 | 需 | 蕒 | 速 | 醇 |  |  |  |  |  |  |
| 9230 | 醽 | 䊩 |  | 罭磷 | 喽肨 | 䤚 | 釗 | 䤠 | 炧 | 吅餼 | 就 | 䉼 |  |  |  |  |  |  |
| 9330 | 钋 | 钲 | 里销 | 枵住 | 垀 | 铰 | 鋔 | 䤦 | 軘铖 | 国锁 | 㼏 | 䤩 |  |  |  |  |  |  |
| 9430 | 䤪 | 鈴 | 鋔 | 泩釷 | 新 | 踫 | 銭 | 签 | 鋿 | 衡 | 浾 | 徵 |  |  |  |  |  |  |
| 9530 | 竝 | 䤵 | 非狏 | 㭺俔 | 腿 | 徥 | 埌 | 餪 | 而销 | 销鏤 | 䤼 | 縑 |  |  |  |  |  |  |
| 9630 | 解 | 錚 | 链 | 掝釷 | 㷁行 | 酷 | 矱 | 緒 | 活荃 | 离垩 | 對 | 铝 |  |  |  |  |  |  |
| 9730 | 鐇 | 䥊 | 責镐 | 产耎 | 器 | 紷 | 鎆 | 嗝 | 閶整 | 整鏤 | 珓 | 㮹 |  |  |  |  |  |  |
| 9830 | 鏤 | 緤 |  |  | 债 | 鐑 | 緹 | 御 | 痘 | 图銤 | 栲 | 做 |  |  |  |  |  |  |
| 9930 | 䌒 | 瑔 | 銑 | 掦筬 | 蔵 |  | 罊 | 鍳 | 㱓 | 通很 | 镱 | 锘 |  |  |  |  |  |  |
| 9A30 | 倍 | 備 | 綗 | 成说 | 缶 | 惐 | 䜏 | 飳 | 限 | 漒年 | 虽 | 綯 |  |  |  |  |  |  |
| 9B30 | 㖪 | 痛 | 榎 | 頁倍 | 䔍 | 镜 | 遥 | 姺 | 䙵 | 行㻢 | 㗲 | 䥻 |  |  |  |  |  |  |
| 9C30 | 钧 | 铇 | 铖 | 铜销 | 䦀锊 | 䦁 | 镇 | 毁 | 㰮 | 䢒 | 鹀 | 欺 |  |  |  |  |  |  |
| 9D30 |  | 閏 | 閏 | 凨䦎 | 䦎 | 閧 | 閣 | 関 | 閣 | 閣 | 䦓 | 戊 |  |  |  |  |  |  |
| 9E30 | 開 | 闧 | 間 | 間 | 間 | 閣 | 閣 | 閣 | 閲 | 風限 | 闍 | 関 |  |  |  |  |  |  |
| 9F30 | 閣 | 閩 | 閣 | 缶閶 | 閣 | 開 | 閣 | 関 | 闌 | 䦚成 | 圆 | 風 |  |  |  |  |  |  |


| 8234 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 12 | 23 | 3 | 4 | 5 | 6 | 67 | 78 | 819 | 9 A | A B | 3 C | D | E | F |
| A030 | 間 |  | 㴻閏 | 䦪限 | 䦪 | 堲 | 開 | 成 | 图䦕 | 调既 | 囫限 | 閣 |  |  |  |  |  |
| A130 | 閑 | 風 | 蜀防 | 阬 | 阿 | 阬 | 陕 | 夹䦽 | 预的 | 施呯 | 䦿肬 | 䧀 |  |  |  |  |  |
| A230 | 陶 | 䧂 | 召陮 | 䧃 | 䧄 | 䧅 | 䧆 | 共珓 | 䧇唒 | 唒䧉 | 䧉随 | 䧊 |  |  |  |  |  |
| A330 | 阳 |  | 圂䧄 | 䧍 | 滑 | 降 | 陾 | 榢 | 定詸 | 詸限 | 限堍 | 㛀 |  |  |  |  |  |
| A430 | 䧕 |  | 或鄫 | 䧗 | 䧘榢 | 棣 | 滴 | 高䧛 | 防陠 | 陠封 | 郢阿 | 嗎 |  |  |  |  |  |
| A530 | 䧟 |  | 慱限 | 浦榢 | 阿 | 榎 |  | 陣 |  | 鸡陑 | 䧧扫 | 桬 |  |  |  |  |  |
| A630 | 陽 |  | 嶉 | 猿榢 | 䧬 | 隐 | 郘 | 急筧 |  | 洔狏 | 雄 | 琟 |  |  |  |  |  |
| A730 | 雌 |  | 婎雄 | 雄 | 矣 | 推 | 䧸 | 䧺麻 | 䧹雄 | 雄㧱 |  | 䧼 |  |  |  |  |  |
| A830 | 稚 |  | 離㬴 | 膗 | 雔 | 䀬 | 稚 | 気羅 | 潅維 | 难雉 | 雄篗 | 幣 |  |  |  |  |  |
| A930 | 籆 |  | 施㜢 | 醀 | 杕 | 雮 | 雨 | 完䨌 | 需霉 | 䨤䨘 | 零窙 | 零 |  |  |  |  |  |
| AA30 | 䨘 |  | 霄需 | 雷 | 䨨 | 霌 | 霫 | 雱霓 | 需㝟 | 㒻需 | 圭年 | 䨖 |  |  |  |  |  |
| AB30 | 䨛 |  | 䨜帾 | 需 | 䨞 | 硞 | 霓 | 霓 | 需䨋 | 甚票 |  | 雷 |  |  |  |  |  |
| AC30 | 需 |  | 需路 | 露 | 通 | 露 | 電 | 電 | 震 | 霖執 | 蛸等 | 雲 |  |  |  |  |  |
| AD30 | 雹 |  | 羂需 | 䨞 | 槪 | 䨘 | 霉 | 等霍 |  | 敓震 | 震限 | 楛 |  |  |  |  |  |
| AE30 | 霍 |  | ${ }^{\text {F }}$ | 部 | 磪 | 菅 | 䨾 | 㢈㻗 | 奞貨 | 貨諒 | 或左 | 動 |  |  |  |  |  |
| AF30 | 配 | 配 | 现䣱 | 䣫盽 | 酢 | 嗭 | 醇 | 酺 | 哺碗 | 就䭽 | 磁理 | 琟 |  |  |  |  |  |

8234

|  | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | $E$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

8234

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $A$ | $B$ | $C$ | $D$ | E |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

8234

|  | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | $A$ | B | C | D | E |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

8234

|  | 0 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | A | B | C | D | － | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F030 | 鹎 | 鳥 | 新 | 鸮 | 駇 | 輚 |  | 艮 | 虹 | 炜 |  | 鸟 | 鹗 |  |  |  |  |  |  |
| F130 | 鸭 | 数 |  | 明 | 䳯 | 鹤 |  | 牁 | 尞 | 鿂 |  | 鸲 | 鸹 |  |  |  |  |  |  |
| F230 | 験 | 㔀 |  | 䅋 | 能 | 知 |  | 䩓 | 鸩 | 篤 |  | 鸟 | 颈 |  |  |  |  |  |  |
| F330 | 驁 | 5 |  | 䳋 | 躰 | 狏 |  | 骩 | 鰩 | 庶 |  | 完 | 鸺 |  |  |  |  |  |  |
| F430 | 整 | 鷕 |  | 篤 | 鸮 | 先 |  | 和 | 鹪 | 等 |  | 禹 | 酠 |  |  |  |  |  |  |
| F530 | 鹋 | 碞 |  | 楾 | 䴗 | 置 |  | 鹖 | 弱 | 嫁 |  | 鸲 | \％ |  |  |  |  |  |  |
| F630 | 䩓 | 第 |  | 쟁 | 釷 | 㖪 |  | 销 | 虙 | 霖 |  | 畓 | 愿 |  |  |  |  |  |  |
| F730 | 睢 | 扁 |  | 楽 | 硨 | 麿 |  | 㲾 | 鄂 | 䴤 |  | 䡠 | 薥 |  |  |  |  |  |  |
| F830 | 弱 | 毞 |  | 代 | 䪨 | 矢 |  | 教 | 酨 | 雄 |  | 衤 | 施 |  |  |  |  |  |  |
| F930 | 粘 | 數 |  | 砤 | 梡 | 受 |  | 焑 | 䋨 | 筀 |  | 戏 | 儛 |  |  |  |  |  |  |
| FA30 | 糕 | 数 |  | 爰 | 婇 | 效 |  | 輀 | 紿 | 数 |  | 筦 | 敏 |  |  |  |  |  |  |
| FB30 | 梏 | 客 |  | 䐵 | 軷 | 乾 |  | 钴 | 蟼 | 䩤 |  | 䊦 | 㝬 |  |  |  |  |  |  |
| FC30 | 程 | 採 |  | 楾 | 絹 | 臨 |  | ${ }^{\text {fir }}$ | 緆 | 蝺 |  | 線 | 濫 |  |  |  |  |  |  |
| FD30 | 楾 | 野 |  | 䵢 | 訐 | 䵢 |  | 至 | 黗 | 駔 |  | 熏 | 䵥 |  |  |  |  |  |  |
| FE30 | 断 | 成 |  | 慮 | 䅸 | 黽 |  | 齐 | 黟 | 䵭 |  | 晹 | 喠 |  |  |  |  |  |  |
| FF30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

8235

|  | 0 |  | 12 | 2 | 3 | 4 | 5 | 5 | 67 | 7 | 8 | 9 | A | B | C | D | E | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8030 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8130 | 场 |  | 真 | 震 | 殓 | 䂪 |  | $6_{6}$ | 電 | 域 | 篟 | 竾 |  |  |  |  |  |  |  |
| 8230 | 牌 |  | 洓 | 暴 | 镜 | 醇 | 管 | 譬等 | 墾 | 檠 | 歇 | 噛 |  |  |  |  |  |  |  |
| 8330 | 閟 |  | 枵 | 䧸 | 餉 | 钴 | Hem | 璃部 | 解 | 缡 | 䮀 | 嘪 |  |  |  |  |  |  |  |
| 8430 | 圌 |  |  | 哈 | 鰒 | 颜 |  | 帾兑 | 她 | 鱽 | 珍 | 暏 |  |  |  |  |  |  |  |
| 8530 | 絞 |  | E | 边 | 锌 | 鮕 |  | 兆楼 | 就 | 鲟 | 㙳 |  |  |  |  |  |  |  |  |
| 8630 | 缶 |  |  | 铪 | 㽞 | 跍 |  | 哇 | 检 | 産 | 㽣 | 繹 |  |  |  |  |  |  |  |
| 8730 | 兓 |  | 廷 | 魹 | 䭷 | 宵 |  |  | 吩 | 答 | 镍 |  |  |  |  |  |  |  |  |
| 8830 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8930 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8A30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8B30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8C30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8D30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8E30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8F30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

12. BARCODE TABLE
(1) WPC (JAN, EAN, UPC)

ITF, MSI, UCC/EAN128, Industrial 2 of 5
GS1 DataBar/GS1 DataBar Stacked
GS1 DataBar Stacked Omnidirectional GS1 DataBar Limited

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 |  |  |  |  |
| 1 |  | 1 |  |  |  |  |
| 2 |  | 2 |  |  |  |  |
| 3 |  | 3 |  |  |  |  |
| 4 |  | 4 |  |  |  |  |
| 5 |  | 5 |  |  |  |  |
| 6 |  | 6 |  |  |  |  |
| 7 |  | 7 |  |  |  |  |
| 8 |  | 8 |  |  |  |  |
| 9 |  | 9 |  |  |  |  |
| A |  |  |  |  |  |  |
| B |  |  |  |  |  |  |
| C |  |  |  |  |  |  |
| D |  |  |  |  |  |  |
| E |  |  |  |  |  |  |
| F |  |  |  |  |  |  |

(3) CODE39 (Full ASCII)
[Transfer code]

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | SP | 0 | @ | P |  | p |
| 1 | ! | 1 | A | Q | a | q |
| 2 | " | 2 | B | R | b | r |
| 3 | \# | 3 | C | S | C | S |
| 4 | \$ | 4 | D | T | d | t |
| 5 | \% | 5 | E | U | e | u |
| 6 | \& | 6 | F | V | f | V |
| 7 | ' | 7 | G | W | g | w |
| 8 | $($ | 8 | H | X | h | X |
| 9 | ) | 9 | I | Y | i | y |
| A | * | : | J | Z | j | z |
| B | + | ; | K | [ | k | \{ |
| C | , | < | L | 1 | I | \| |
| D | - | = | M | ] | m | \} |
| E |  | > | N | $\wedge$ | n | $\sim$ |
| F | / | ? | O | - | 0 | $\triangle$ |

(2) CODE39 (Standard)

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | SP | 0 |  | P |  |  |
| 1 |  | 1 | A | Q |  |  |
| 2 |  | 2 | B | R |  |  |
| 3 |  | 3 | C | S |  |  |
| 4 | $\$$ | 4 | D | T |  |  |
| 5 | $\%$ | 5 | E | U |  |  |
| 6 |  | 6 | F | V |  |  |
| 7 |  | 7 | G | W |  |  |
| 8 |  | 8 | H | X |  |  |
| 9 |  | 9 | l | Y |  |  |
| A | $*$ |  | J | Z |  |  |
| B | + |  | K |  |  |  |
| C |  |  | L |  |  |  |
| D | - |  | M |  |  |  |
| E | $\cdot$ |  | N |  |  |  |
| F | l |  | O |  |  |  |

[Drawing code]

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | SP | 0 | $\% \mathrm{~V}$ | P | $\% \mathrm{~W}$ | +P |
| 1 | IA | 1 | A | Q | +A | +Q |
| 2 | /B | 2 | B | R | +B | +R |
| 3 | IC | 3 | C | S | +C | +S |
| 4 | /D | 4 | D | T | +D | +T |
| 5 | /E | 5 | E | U | +E | +U |
| 6 | /F | 6 | F | V | +F | +V |
| 7 | /G | 7 | G | W | +G | +W |
| 8 | /H | 8 | H | X | +H | +X |
| 9 | /l | 9 | I | Y | +l | +Y |
| A | IJ | IZ | J | Z | +J | +Z |
| B | /K | $\% \mathrm{~F}$ | K | $\% \mathrm{~K}$ | +K | $\% \mathrm{P}$ |
| C | /L | $\% \mathrm{G}$ | L | $\% \mathrm{~L}$ | +L | $\% \mathrm{Q}$ |
| D | - | $\% \mathrm{H}$ | M | $\% \mathrm{M}$ | +M | $\% \mathrm{R}$ |
| E | . | $\% \mathrm{l}$ | N | $\% \mathrm{~N}$ | +N | $\% \mathrm{~S}$ |
| F | /O | $\% \mathrm{~J}$ | O | $\% \mathrm{O}$ | +O | $\% \mathrm{~T}$ |

(4) NW-7

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | SP | 0 |  |  |  |  |
| 1 |  | 1 | A |  | a |  |
| 2 |  | 2 | B |  | b |  |
| 3 |  | 3 | C |  | c |  |
| 4 | $\$$ | 4 | D |  | d | t |
| 5 |  | 5 |  |  | e |  |
| 6 |  | 6 |  |  |  |  |
| 7 |  | 7 |  |  |  |  |
| 8 |  | 8 |  |  |  |  |
| 9 |  | 9 |  |  |  |  |
| A | $*$ | $:$ |  |  |  |  |
| B | + |  |  |  |  |  |
| C |  |  |  |  |  |  |
| $D$ | - |  |  |  |  |  |
| E | $\cdot$ |  |  |  | n |  |
| F | l |  |  |  |  |  |

(5) CODE93
[Transfer code]

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | SP | 0 | @ | P |  | p |
| 1 | ! | 1 | A | Q | a | q |
| 2 | " | 2 | B | R | b | r |
| 3 | \# | 3 | C | S | C | S |
| 4 | \$ | 4 | D | T | d | t |
| 5 | \% | 5 | E | U | e | u |
| 6 | \& | 6 | F | V | f | V |
| 7 | , | 7 | G | W | g | W |
| 8 | $($ | 8 | H | X | h | x |
| 9 | ) | 9 | I | Y | i | y |
| A | * | . | J | Z | j | z |
| B | + | ; | K | [ | k | \{ |
| C | , | < | L | 1 | 1 | 1 |
| D | - | = | M | ] | m | \} |
| E |  | $>$ | N | $\wedge$ | n | $\sim$ |
| F | / | ? | 0 | - | 0 | $\triangle$ |

[Drawing code]

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | SP | 0 | $\% \mathrm{~V}$ | P | $\% \mathrm{~W}$ | +P |
| 1 | IA | 1 | A | Q | +A | +Q |
| 2 | $/ \mathrm{B}$ | 2 | B | R | +B | +R |
| 3 | $/ \mathrm{C}$ | 3 | C | S | +C | +S |
| 4 | $/ \mathrm{D}$ | 4 | D | T | +D | +T |
| 5 | $/ \mathrm{E}$ | 5 | E | U | +E | +U |
| 6 | $/ \mathrm{F}$ | 6 | F | V | +F | +V |
| 7 | /G | 7 | G | W | +G | +W |
| 8 | $/ \mathrm{H}$ | 8 | H | X | +H | +X |
| 9 | $/ \mathrm{I}$ | 9 | I | Y | +l | +Y |
| A | $/ \mathrm{J}$ | IZ | J | Z | +J | +Z |
| B | + | $\% \mathrm{~F}$ | K | $\% \mathrm{~K}$ | +K | $\% \mathrm{P}$ |
| C | $/ \mathrm{L}$ | $\% \mathrm{G}$ | L | $\% \mathrm{~L}$ | +L | $\% \mathrm{Q}$ |
| D | - | $\% \mathrm{H}$ | M | $\% \mathrm{M}$ | +M | $\% \mathrm{R}$ |
| E | . | $\% \mathrm{l}$ | N | $\% \mathrm{~N}$ | +N | $\% \mathrm{~S}$ |
| F | I | $\% \mathrm{~J}$ | O | $\% \mathrm{O}$ | +O | $\% \mathrm{~T}$ |

(6) CODE128
[Transfer code]

|  | - | - | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | NUL | DLE | SP | 0 | @ | P |  | $p$ |
| 1 | SOH | DC1 | ! | 1 | A | Q | a | q |
| 2 | STX | DC2 | " | 2 | B | R | b | $r$ |
| 3 | ETX | DC3 | \# | 3 | C | S | C | S |
| 4 | EOT | DC4 | \$ | 4 | D | T | d | t |
| 5 | ENQ | NAK | \% | 5 | E | U | e | u |
| 6 | ACK | SYN | \& | 6 | F | V | f | V |
| 7 | BEL | ETB | ' | 7 | G | W | g | w |
| 8 | BS | CAN | $($ | 8 | H | X | h | X |
| 9 | HT | EM | ) | 9 | 1 | Y | i | y |
| A | LF | SUB | * | : | J | Z | j | z |
| B | VT | ESC | + | ; | K | [ | k | \{ |
| C | FF | FS |  | < | L | 1 | 1 | 1 |
| D | CR | GS | - | = | M | ] | m | \} |
| E | SO | RS |  | $>$ | N | $\wedge$ | n | $\sim$ |
| F | SI | US | 1 | ? | 0 |  | 0 | $\triangle$ |

(1) How to transmit control code data:

| NUL $(00 \mathrm{H})$ | $\rightarrow$ | $>@(3 \mathrm{EH}, 40 \mathrm{H})$ |
| :--- | :--- | :--- |
| SOH $(01 \mathrm{H})$ | $\rightarrow$ | $>\mathrm{A}(3 \mathrm{EH}, 41 \mathrm{H})$ |
| STX $(02 \mathrm{H})$ | $\rightarrow$ | $>\mathrm{B}(3 \mathrm{EH}, 42 \mathrm{H})$ |
| to |  |  |
| GS $(1 \mathrm{DH})$ | $\rightarrow$ | $>\mathrm{>}(3 \mathrm{EH}, 5 \mathrm{DH})$ |
| RS $(1 \mathrm{EH})$ | $\rightarrow$ | $>\wedge(3 \mathrm{EH}, 5 \mathrm{EH})$ |
| US $(1 \mathrm{FH})$ | $\rightarrow$ | $>-(3 \mathrm{EH}, 5 \mathrm{FH})$ |

(2) How to transmit special codes:

Value

| $30($ Character $>)$ | $\rightarrow$ | $>0$ |
| :--- | :--- | :--- |
| 95 | $\rightarrow$ | $>1$ |
| 96 | $\rightarrow$ | $>2$ |
| 97 | $\rightarrow$ | $>3$ |
| 98 | $\rightarrow$ | $>4$ |
| 99 | $\rightarrow$ | $>5$ |
| 100 | $\rightarrow$ | $>6$ |
| 101 | $\rightarrow$ | $>7$ |
| 102 | $\rightarrow$ | $>8$ |

(3) Designation of start code:

START (CODE A) $\rightarrow \quad>7$
START (CODE B) $\rightarrow \quad>6$
START (CODE C) $\rightarrow \quad>5$

Value Code Table

| VALUE | $\begin{gathered} \mathrm{CODE} \\ \mathrm{~A} \end{gathered}$ | $\begin{gathered} \text { CODE } \\ \text { B } \end{gathered}$ | $\begin{gathered} \text { CODE } \\ C \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 0 | SP | SP | 00 |
| 1 | ! | ! | 01 |
| 2 | " | " | 02 |
| 3 | \# | \# | 03 |
| 4 | \$ | \$ | 04 |
| 5 | \% | \% | 05 |
| 6 | \& | \& | 06 |
| 7 | ' | ' | 07 |
| 8 | ( | $($ | 08 |
| 9 | ) | ) | 09 |
| 10 | * | * | 10 |
| 11 | + | + | 11 |
| 12 | , | , | 12 |
| 13 | - | - | 13 |
| 14 | . | . | 14 |
| 15 | 1 | 1 | 15 |
| 16 | 0 | 0 | 16 |
| 17 | 1 | 1 | 17 |
| 18 | 2 | 2 | 18 |
| 19 | 3 | 3 | 19 |
| 20 | 4 | 4 | 20 |
| 21 | 5 | 5 | 21 |
| 22 | 6 | 6 | 22 |
| 23 | 7 | 7 | 23 |
| 24 | 8 | 8 | 24 |
| 25 | 9 | 9 | 25 |
| 26 | : | : | 26 |
| 27 | ; | ; | 27 |
| 28 | $<$ | $<$ | 28 |
| 29 | = | = | 29 |
| 30 | $>$ | $>$ | 30 |
| 31 | ? | ? | 31 |
| 32 | @ | @ | 32 |
| 33 | A | A | 33 |
| 34 | B | B | 34 |
| 35 | C | C | 35 |

$\left.\begin{array}{|c||c|c|c|}\hline \text { VALUE } & \text { CODE } \\ \text { A }\end{array} \begin{array}{c}\text { CODE } \\ \text { B }\end{array} \begin{array}{c}\text { CODE } \\ \text { C }\end{array}\right]$

| VALUE | $\begin{array}{\|\|c\|c} \hline \text { CODE } \\ \mathrm{A} \end{array}$ | $\begin{gathered} \text { CODE } \\ \text { B } \end{gathered}$ | $\begin{gathered} \text { CODE } \\ \text { C } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 72 | BS | h | 72 |
| 73 | HT | i | 73 |
| 74 | LF | j | 74 |
| 75 | VT | k | 75 |
| 76 | FF | 1 | 76 |
| 77 | CR | m | 77 |
| 78 | SO | n | 78 |
| 79 | SI | 0 | 79 |
| 80 | DLE | p | 80 |
| 81 | DC1 | q | 81 |
| 82 | DC2 | $r$ | 82 |
| 83 | DC3 | S | 83 |
| 84 | DC4 | t | 84 |
| 85 | NAK | u | 85 |
| 86 | SYN | v | 86 |
| 87 | ETB | W | 87 |
| 88 | CAN | x | 88 |
| 89 | EM | y | 89 |
| 90 | SUB | z | 90 |
| 91 | ESC | \{ | 91 |
| 92 | FS | I | 92 |
| 93 | GS | \} | 93 |
| 94 | RS | $\sim$ | 94 |
| 95 | US | DEL | 95 |
| 96 | FNC3 | FNC3 | 96 |
| 97 | FNC2 | FNC2 | 97 |
| 98 | SHIFT | SHIFT | 98 |
| 99 | CODE C | CODE C | 99 |
| 100 | CODE B | FNC4 | CODE B |
| 101 | FNC4 | CODE A | CODE A |
| 102 | FNC1 | FNC1 | FNC1 |


| 103 | START CODE A |
| :---: | :---: |
| 104 | START CODE B |
| 105 | START CODE C |

## (7) Data Matrix

The code to be used is designated using the format ID.

| Format ID | Code | Details |
| :---: | :--- | :--- |
| 1 | Numerics | 0 to 9 space |
| 2 | Letters | A to Z space |
| 3 | Alphanumerics, symbols | 0 to 9 A to Z space . , - / |
| 4 | Alphanumerics | 0 to 9 A to Z space |
| 5 | ASCII (7-bit) | 00 H to 7 FH |
| 6 | ISO (8-bit) | 00 H to FFH (Kanji) |

[Transfer Code]

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | NUL | DLE | SP | 0 | $@$ | P | $\cdot$ | p |  |  |  |  |  |  |  |  |
| 1 | SOH | DC1 | $!$ | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 | STX | DC2 | $"$ | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 | ETX | DC3 | $\#$ | 3 | C | S | c | s |  |  |  |  |  |  |  |  |
| 4 | EOT | DC4 | \$ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 | ENQ | NAK | $\%$ | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 | ACK | SYN | $\&$ | 6 | F | V | f | v |  |  |  |  |  |  |  |  |
| 7 | BEL | ETB | , | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 | BS | CAN | $($ | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 | HT | EM | $)$ | 9 | l | Y | i | y |  |  |  |  |  |  |  |  |
| A | LF | SUB | $*$ | $:$ | J | Z | j | z |  |  |  |  |  |  |  |  |
| B | VT | ESC | + | $;$ | K | $[$ | k | \{ |  |  |  |  |  |  |  |  |
| C | FF | FS | , | $<$ | L | l | l | l |  |  |  |  |  |  |  |  |
| D | CR | GS | - | $=$ | M |  | m | $\}$ |  |  |  |  |  |  |  |  |
| E | SO | RS | . | $>$ | N | $\wedge$ | $n$ | $\sim$ |  |  |  |  |  |  |  |  |
| F | SI | US | $/$ | $?$ | O |  | o | $\triangle$ |  |  |  |  |  |  |  |  |

(1) How to send control code data

| NUL | $(00 \mathrm{H})$ | $\rightarrow$ | $>@$ | $(3 \mathrm{EH}, 40 \mathrm{H})$ |
| ---: | :--- | :--- | :--- | :--- |
| SOH | $(01 \mathrm{H})$ | $\rightarrow$ | $>\mathrm{A}$ | $(3 \mathrm{EH}, 41 \mathrm{H})$ |
| STX | $(02 \mathrm{H})$ | $\rightarrow$ | $>B$ | $(3 \mathrm{EH}, 42 \mathrm{H})$ |
| to |  |  |  |  |
| GS | $(1 \mathrm{DH})$ | $\rightarrow$ | $>]$ | $(3 \mathrm{EH}, 5 \mathrm{DH})$ |
| RS | $(1 \mathrm{EH})$ | $\rightarrow$ | $>\wedge$ | $(3 \mathrm{EH}, 5 \mathrm{EH})$ |
| US | $(1 \mathrm{FH})$ | $\rightarrow$ | $>-$ | $(3 \mathrm{EH}, 5 \mathrm{FH})$ |

(2) How to send a special code

| $>$ | $(3 \mathrm{EH})$ | $\rightarrow$ | $>0$ |
| :--- | :--- | :--- | :--- |
| $\mathrm{FNC1}$ | $(3 \mathrm{EH}, 30 \mathrm{H})$ |  |  |
|  |  | $>1$ | $(3 \mathrm{EH}, 31 \mathrm{H})$ |

(3) How to send a Kanji code

Shift JIS
JIS hexadecimal
(For details, refer to the section for the Barcode Data Command.)
(8) PDF417

The following modes are automatically selected according to the code used.

| Mode | Code | Details |
| :---: | :---: | :---: |
| EXC mode | Alphanumerics, symbol | $\begin{aligned} & 0 \text { to } 9 \text { A to } \mathrm{Z} \text { a to z space !" } \\ & \# \$ \% \&,()^{*}+,-\cdot \\ & /: ;<=>? @[\backslash] \\ & \hdashline \quad\{\mid\} \sim \triangle C R H T \end{aligned}$ |
| Binary/ASCII Plus mode | Binary International Character Set | OOH to FFH (Kanji) |
| Numeric Compaction mode | Numerics | 0 to 9 |

[Transfer Code]

| - | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | NUL | DLE | SP | 0 | @ | P |  | p |  |  |  |  |  |  |  |  |
| 1 | SOH | DC1 | ! | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 | STX | DC2 | " | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 | ETX | DC3 | \# | 3 | C | S | c | S |  |  |  |  |  |  |  |  |
| 4 | EOT | DC4 | \$ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 | ENQ | NAK | \% | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 | ACK | SYN | \& | 6 | F | V | f | V |  |  |  |  |  |  |  |  |
| 7 | BEL | ETB |  | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 | BS | CAN | ( | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 | HT | EM | ) | 9 | 1 | Y | i | y |  |  |  |  |  |  |  |  |
| A | LF | SUB | * | : | J | Z | j | z |  |  |  |  |  |  |  |  |
| B | VT | ESC | + | , | K | [ | k | \{ |  |  |  |  |  |  |  |  |
| C | FF | FS | , | < | L | 1 | 1 | 1 |  |  |  |  |  |  |  |  |
| D | CR | GS | - | $=$ | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E | SO | RS | . | $>$ | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F | SI | US | 1 | ? | 0 |  | 0 | $\triangle$ |  |  |  |  |  |  |  |  |

(1) How to send control code data

| NUL | $(00 \mathrm{H})$ | $\rightarrow$ | $>@$ | $(3 \mathrm{EH}, 40 \mathrm{H})$ |
| :---: | :--- | :--- | :--- | :--- |
| SOH | $(01 \mathrm{H})$ | $\rightarrow$ | $>\mathrm{A}$ | $(3 \mathrm{EH}, 41 \mathrm{H})$ |
| STX | $(02 \mathrm{H})$ | $\rightarrow$ | $>B$ | $(3 \mathrm{EH}, 42 \mathrm{H})$ |
| to |  |  |  |  |
| GS | $(1 \mathrm{DH})$ | $\rightarrow$ | $>]$ | $(3 \mathrm{EH}, 5 \mathrm{DH})$ |
| RS | $(1 \mathrm{EH})$ | $\rightarrow$ | $>\wedge$ | $(3 \mathrm{EH}, 5 \mathrm{EH})$ |
| US | $(1 \mathrm{FH})$ | $\rightarrow$ | $>-$ | $(3 \mathrm{EH}, 5 \mathrm{FH})$ |

(2) How to send a special code
$>\quad(3 E H) \quad \rightarrow \quad>0 \quad(3 E H, 30 \mathrm{H})$
(3) How to send a Kanji code

Shift JIS
JIS hexadecimal
(For details, refer to the section for the Barcode Data Command.)

## (9) MicroPDF417

The following modes are automatically selected according to the code used.

| Mode | Details |
| :--- | :--- |
| Upper case letters, <br> space | A to Z, space |
| Binary International <br> Character Set | 00 H to FFH (Kanji) |
| Numerics | 0 to 9 |

[Transfer Code]

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | NUL | DLE | SP | 0 | $@$ | P | $\cdot$ | p |  |  |  |  |  |  |  |  |
| 1 | SOH | DC1 | $!$ | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 | STX | DC2 | $"$ | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 | ETX | DC3 | $\#$ | 3 | C | S | c | s |  |  |  |  |  |  |  |  |
| 4 | EOT | DC4 | $\$$ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 | ENQ | NAK | $\%$ | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 | ACK | SYN | $\&$ | 6 | F | V | f | v |  |  |  |  |  |  |  |  |
| 7 | BEL | ETB | , | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 | BS | CAN | $($ | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 | HT | EM | ) | 9 | I | Y | i | y |  |  |  |  |  |  |  |  |
| A | LF | SUB | $*$ | $:$ | J | Z | j | z |  |  |  |  |  |  |  |  |
| B | VT | ESC | + | $;$ | K | $[$ | k | $\{$ |  |  |  |  |  |  |  |  |
| C | FF | FS | , | $<$ | L | l | l | l |  |  |  |  |  |  |  |  |
| D | CR | GS | - | $=$ | M | ] | m | $\}$ |  |  |  |  |  |  |  |  |
| E | SO | RS | . | $>$ | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F | SI | US | $/$ | $?$ | O | - | $o$ | $\triangle$ |  |  |  |  |  |  |  |  |

(1) How to send control code data

| NUL $(00 \mathrm{H})$ | $\rightarrow$ | $>@$ | $(3 \mathrm{EH}, 40 \mathrm{H})$ |  |
| :---: | :--- | :--- | :--- | :--- |
| SOH $(01 \mathrm{H})$ | $\rightarrow$ | $>\mathrm{A}$ | $(3 \mathrm{EH}, 41 \mathrm{H})$ |  |
| STX $(02 \mathrm{H})$ | $\rightarrow$ | $>B$ | $(3 \mathrm{EH}, 42 \mathrm{H})$ |  |
| to |  |  |  |  |
| GS | $(1 \mathrm{DH})$ | $\rightarrow$ | $>]$ | $(3 \mathrm{EH}, 5 \mathrm{DH})$ |
| RS | $(1 \mathrm{EH})$ | $\rightarrow$ | $>\wedge$ | $(3 \mathrm{EH}, 5 \mathrm{EH})$ |
| US | $(1 \mathrm{FH})$ | $\rightarrow$ | $>$ | $(3 \mathrm{EH}, 5 \mathrm{FH})$ |

(2) How to send a special code
$>\quad(3 E H) \quad \rightarrow \quad>0 \quad(3 E H, 30 H)$
(3) How to send a Kanji code

Shift JIS
JIS hexadecimal
(For details, refer to the section for the Barcode Data Command.)
(10) QR code

When manual mode is selected in the Format Command

- Numeric mode, alphanumeric and symbol mode, Kanji mode

| Mode selection | Data to be printed |
| :--- | :--- |

- Binary mode

| Mode selection | No. of data strings <br> (4 digits) | Data to be printed |
| :---: | :---: | :---: |

- Mixed mode

| Data | "," (comma) | Data | "," (comma) | Data |
| :---: | :---: | :---: | :---: | :---: |

The QR code can handle all codes including alphanumerics, symbols, and Kanji. However, since the data compression rate varies according to codes, the code to be used should be designated by selecting the mode.

| Mode | Code | Details |
| :---: | :--- | :--- |
| N | Numerals | 0 to 9 |
| A | Alphanumerics, symbols | A to Z 0 to 9 space <br> $\$ \%^{*}+-. /:$ |
| B | Binary (8-bit) | 00 H to FFH |
| K | Kanji | Shift JIS, JIS hexadecimal |

If mixed mode is selected, up to 200 modes can be selected in a QR code.
When the automatic mode is selected in the Format Command for a QR code:
Data to be printed
[Transfer code for QR code]

| - | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | NUL | DLE | SP | 0 | @ | P |  | p |  |  |  |  |  |  |  |  |
| 1 | SOH | DC1 | ! | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 | STX | DC2 | " | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 | ETX | DC3 | \# | 3 | C | S | c | s |  |  |  |  |  |  |  |  |
| 4 | EOT | DC4 | \$ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 | ENQ | NAK | \% | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 | ACK | SYN | \& | 6 | F | V | f | v |  |  |  |  |  |  |  |  |
| 7 | BEL | ETB | , | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 | BS | CAN | ( | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 | HT | EM | ) | 9 | 1 | Y | i | y |  |  |  |  |  |  |  |  |
| A | LF | SUB | * | : | J | Z | j | z |  |  |  |  |  |  |  |  |
| B | VT | ESC | + | ; | K | [ | k | \{ |  |  |  |  |  |  |  |  |
| C | FF | FS |  | < | L | 1 | I | 1 |  |  |  |  |  |  |  |  |
| D | CR | GS | - | = | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E | SO | RS | - | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F | SI | US | 1 | ? | 0 |  | 0 | DEL |  |  |  |  |  |  |  |  |

* The shaded parts are Japanese. They are omitted here.
（1）How to send control code data
NUL（00H）$\rightarrow$＞＠（3EH，40H）
SOH（01H）$\rightarrow>\mathrm{A}$（3EH，41H）
STX（02H）$\rightarrow \quad>B \quad(3 E H, 42 H)$
to
GS（1DH）$\rightarrow \quad>$ ］（3EH，5DH）
RS（1EH）$\rightarrow>^{\wedge}$（3EH，5EH）
US（1FH）$\rightarrow>_{-}(3 E H, 5 F H)$
（2）How to send a special code
$>\quad(3 \mathrm{EH}) \rightarrow>0 \quad(3 \mathrm{EH}, 30 \mathrm{H})$
（3）How to send a Kanji code
Shift JIS
JIS hexadecimal
（For details，refer to the section for the Barcode Data Command．）

Examples of data designation for $Q R$ code
（1）Alphanumeric mode：ABC123

（2）Binary mode： $01 \mathrm{H}, 03 \mathrm{H}, 05 \mathrm{H}$
B $0 \underline{006}>\underline{A>C}>E$

（3）Mixed mode
Numeric mode ： 123456
Kanji mode ：Kanji data
Binary mode ：aアiイuウeエoオ
Alphanumeric and symbol mode ：ABC

（4）Automatic mode
When the same data as（3）above is designated in automatic mode：
123456 Kanji data aアiイuウeエoオABC
Data to be printed
(11) Postal code

## USPS Intelligent mail barcode

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 |  |  |  |  |
| 1 |  | 1 |  |  |  |  |
| 2 |  | 2 |  |  |  |  |
| 3 |  | 3 |  |  |  |  |
| 4 |  | 4 |  |  |  |  |
| 5 |  | 5 |  |  |  |  |
| 6 |  | 6 |  |  |  |  |
| 7 |  | 7 |  |  |  |  |
| 8 |  | 8 |  |  |  |  |
| 9 |  | 9 |  |  |  |  |
| A |  |  |  |  |  |  |
| B |  |  |  |  |  |  |
| C |  |  |  |  |  |  |
| D |  |  |  |  |  |  |
| E |  |  |  |  |  |  |
| F |  |  |  |  |  |  |

RM4SCC

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 |  | P |  |  |
| 1 |  | 1 | A | Q |  |  |
| 2 |  | 2 | B | R |  |  |
| 3 |  | 3 | C | S |  |  |
| 4 |  | 4 | D | T |  |  |
| 5 |  | 5 | E | U |  |  |
| 6 |  | 6 | F | V |  |  |
| 7 |  | 7 | G | W |  |  |
| 8 | $($ | 8 | H | X |  |  |
| 9 | $)$ | 9 | l | Y |  |  |
| A |  |  | J | Z |  |  |
| B |  |  | K |  |  |  |
| C |  |  | L |  |  |  |
| D |  |  | M |  |  |  |
| E |  |  | N |  |  |  |
| F |  |  | O |  |  |  |

POSTNET

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 |  |  |  |  |
| 1 |  | 1 |  |  |  |  |
| 2 |  | 2 |  |  |  |  |
| 3 |  | 3 |  |  |  |  |
| 4 |  | 4 |  |  |  |  |
| 5 |  | 5 |  |  |  |  |
| 6 |  | 6 |  |  |  |  |
| 7 |  | 7 |  |  |  |  |
| 8 |  | 8 |  |  |  |  |
| 9 |  | 9 |  |  |  |  |
| A |  |  |  |  |  |  |
| B |  |  |  |  |  |  |
| C |  |  |  |  |  |  |
| D |  |  |  |  |  |  |
| E |  |  |  |  |  |  |
| F |  |  |  |  |  |  |

KIX CODE

|  | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  | 0 |  | P |  | p |
| 1 |  | 1 | A | Q | a | q |
| 2 |  | 2 | B | R | b | r |
| 3 |  | 3 | C | S | c | s |
| 4 |  | 4 | D | T | d | t |
| 5 |  | 5 | E | U | e | u |
| 6 |  | 6 | F | V | f | v |
| 7 |  | 7 | G | W | g | w |
| 8 |  | 8 | H | X | h | x |
| 9 |  | 9 | l | Y | i | y |
| A |  |  | J | Z | j | z |
| B |  |  | K |  | k |  |
| C |  |  | L |  | l |  |
| D |  |  | M |  | m |  |
| E |  |  | N |  | n |  |
| F |  |  | O |  | o |  |

* "(" or ")" can be designated only as a start/stop code.

These should not be entered in data
If these are entered between data, no barcode is drawn.
(12) MaxiCode

| Symbol Character Value |  | Code Set A |  | Code Set B |  | Code Set C |  | Code Set D |  | Code Set E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Decimal | Binary | Character | Decimal | Character | Decimal | Character | Decimal | Character | Decimal | Character | Decimal |
| 0 | 000000 | CR | 13 | , | 96 | À | 192 | à | 224 | NUL | 0 |
| 1 | 000001 | A | 65 | a | 97 | Á | 193 | á | 225 | SOH | 1 |
| 2 | 000010 | B | 66 | b | 98 | Â | 194 | â | 226 | STX | 2 |
| 3 | 000011 | C | 67 | c | 99 | Ã | 195 | ã | 227 | ETX | 3 |
| 4 | 000100 | D | 68 | d | 100 | Ä | 196 | ä | 228 | EOT | 4 |
| 5 | 000101 | E | 69 | e | 101 | Å | 197 | a | 229 | ENQ | 5 |
| 6 | 000110 | F | 70 | $f$ | 102 | $\ldots$ | 198 | æ | 230 | ACK | 6 |
| 7 | 000111 | G | 71 | g | 103 | Ç | 199 | ç | 231 | BEL | 7 |
| 8 | 001000 | H | 72 | h | 104 | E | 200 | è | 232 | BS | 8 |
| 9 | 001001 | I | 73 | i | 105 | É | 201 | é | 233 | HT | 9 |
| 10 | 001010 | J | 74 | j | 106 | Ê | 202 | ê | 234 | LF | 10 |
| 11 | 001011 | K | 75 | k | 107 | Ë | 203 | ë | 235 | VT | 11 |
| 12 | 001100 | L | 76 | I | 108 | Ì | 204 | ì | 236 | FF | 12 |
| 13 | 001101 | M | 77 | m | 109 | İ | 205 | í | 237 | CR | 13 |
| 14 | 001110 | N | 78 | n | 110 | Î | 206 | î | 238 | SO | 14 |
| 15 | 001111 | 0 | 79 | 0 | 111 | Ï | 207 | ï | 239 | SI | 15 |
| 16 | 010000 | P | 80 | p | 112 | Đ | 208 | б | 240 | DLE | 16 |
| 17 | 010001 | Q | 81 | q | 113 | N | 209 | ñ | 241 | DC1 | 17 |
| 18 | 010010 | R | 82 | $r$ | 114 | Ò | 210 | ò | 242 | DC2 | 18 |
| 19 | 010011 | S | 83 | s | 115 | Ó | 211 | ó | 243 | DC3 | 19 |
| 20 | 010100 | T | 84 | t | 116 | Ô | 212 | ô | 244 | DC4 | 20 |
| 21 | 010101 | U | 85 | u | 117 | Õ | 213 | O | 245 | NAK | 21 |
| 22 | 010110 | V | 86 | v | 118 | Ö | 214 | ö | 246 | SYN | 22 |
| 23 | 010111 | W | 87 | w | 119 | $\times$ | 215 | $\div$ | 247 | ETB | 23 |
| 24 | 011000 | X | 88 | $x$ | 120 | $\varnothing$ | 216 | $\varnothing$ | 248 | CAN | 24 |
| 25 | 011001 | Y | 89 | y | 121 | Ù | 217 | ù | 249 | EM | 25 |
| 26 | 011010 | Z | 90 | z | 122 | Ú | 218 | ú | 250 | SUB | 26 |
| 27 | 011011 | [EC] |  | [EC] |  | [EC] |  | [EC] |  | [EC] |  |
| 28 | 011100 | FS | 28 | FS | 28 | FS | 28 | FS | 28 | [Pa |  |
| 29 | 011101 | GS | 29 | GS | 29 | GS | 29 | GS | 29 | [Pa |  |
| 30 | 011110 | RS | 30 | RS | 30 | RS | 30 | RS | 30 | ESC | 27 |
| 31 | 011111 | [NS] |  | [NS] |  | [NS] |  | [NS] |  | [NS] |  |
| 32 | 100000 | Space ${ }_{\text {[Pad] }}$ |  |  | 123 | Û | 219 | û | 251 | FS | 28 |
| 33 | 100001 |  |  | [Pad] |  | Ü | 220 | ü | 252 | GS | 29 |
| 34 | 100010 |  | 34 | ) | 125 | Ý | 221 | ý | 253 | RS | 30 |
| 35 | 100011 | \# | 35 | $\sim$ | 126 | P | 222 | p | 254 | US | 31 |
| 36 | 100100 | \$ | 36 | DEL | 127 | B | 223 | ÿ | 255 | \{C159\} | 159 |
| 37 | 100101 | \% | 37 | ; | 59 | $\underline{\square}$ | 170 | i | 161 | NBSP | 160 |
| 38 | 100110 | \& | 38 | $<$ | 60 | ᄀ | 172 |  | 168 | $\phi$ | 162 |
| 39 | 100111 | ' | 39 | $=$ | 61 | $\pm$ | 177 | " | 171 | $£$ | 163 |
| 40 | 101000 | ( | 40 | > | 62 | 2 | 178 |  | 175 | a | 164 |
| 41 | 101001 | ) | 41 | ? | 63 | 3 | 179 | - | 176 | $¥$ | 165 |
| 42 | 101010 | " | 42 | [ | 91 |  | 181 | ' | 180 |  | 166 |
| 43 | 101011 | + | 43 | 1 | 92 | 1 | 185 | - | 183 | § | 167 |
| 44 | 101100 |  | 44 | ] | 93 | - | 186 |  | 184 | © | 169 |
| 45 | 101101 | - | 45 | $\wedge$ | 94 | $1 / 4$ | 188 | " | 187 | SHY | 173 |
| 46 | 101110 |  | 46 |  | 95 | 1/2 | 189 | ¿ | 191 | ® | 174 |
| 47 | 101111 | 1 | 47 | Space | 32 | $3 / 4$ | 190 | \{C138\} | 138 | II | 182 |
| 48 | 110000 | 0 | 48 | , | 44 | \{C128\} | 128 | \{C139\} | 139 | \{C149\} | 149 |
| 49 | 110001 | 1 | 49 | . | 46 | \{C129\} | 129 | \{C140\} | 140 | \{C150\} | 150 |
| 50 | 110010 | 2 | 50 | 1 | 47 | \{C130\} | 130 | \{C141\} | 141 | \{C151\} | 151 |
| 51 | 110011 | 3 | 51 | : | 58 | \{C131\} | 131 | \{C142\} | 142 | \{C152\} | 152 |
| 52 | 110100 | 4 | 52 | @ | 64 | \{C132\} | 132 | \{C143\} | 143 | \{C153\} | 153 |
| 53 | 110101 | 5 | 53 | ! | 33 | \{C133\} | 133 | \{C144\} | 144 | \{C154\} | 154 |
| 54 | 110110 | 6 | 54 | 1 | 124 | \{C134\} | 134 | \{C145\} | 145 | \{C155\} | 155 |
| 55 | 110111 | 7 | 55 | [P1 |  | \{C135\} | 135 | \{C146\} | 146 | \{C156\} | 156 |
| 56 | 111000 | 8 | 56 | [2 Sh | ft A] | \{C136\} | 136 | \{C147\} | 147 | \{C157\} | 157 |
| 57 | 111001 | 9 | 57 | [3 Sh | ft A] | \{C137\} | 137 | \{C148\} | 148 | \{C158\} | 158 |
| 58 | 111010 | [Shift B] |  |  |  | [Latch A] |  | [Latch A] |  | [Latch A] |  |
| 59 | 111011 |  |  | [Shi |  | Space | 32 | Space | 32 | Space | 32 |
| 60 | 111100 | [Shift C] |  | [Shift C] |  | [Lock In C] |  | [Shift C] |  | [Shift C] |  |
| 61 | 111101 | [Shift D] |  | [Shift D] |  | [Shift D] |  | [Lock In D] |  | [Shift D] <br> [Lock In E] <br> [Latch B] |  |
| 62 63 | 111110 111111 | [Shift E] <br> [Latch B] |  | [Shift E] <br> [Latch A] |  | [Shift E] <br> [Latch B] |  | [Shift E] <br> [Latch B] |  |  |  |

(1) How to send control code data

| SOH | $(01 \mathrm{H})$ | $\rightarrow$ | $>A$ | $(3 \mathrm{EH}, 41 \mathrm{H})$ |
| :---: | :---: | :---: | :---: | :---: |
| STX | $(02 \mathrm{H})$ | $\rightarrow$ | $>B$ | $(3 \mathrm{EH}, 42 \mathrm{H})$ |
| to |  |  |  |  |
| GS | $(1 \mathrm{DH})$ | $\rightarrow$ | $>]$ | $(3 \mathrm{EH}, 5 \mathrm{DH})$ |
| RS | $(1 \mathrm{EH})$ | $\rightarrow$ | $>\wedge$ | $(3 \mathrm{EH}, 5 \mathrm{EH})$ |
| US | $(1 \mathrm{FH})$ | $\rightarrow$ | $>-$ | $(3 \mathrm{EH}, 5 \mathrm{FH})$ |

(2) How to send a special code
$>\quad(3 \mathrm{EH}) \quad \rightarrow \quad>0 \quad(3 \mathrm{EH}, 30 \mathrm{H})$
(3) How to send a Kanji code

Shift JIS
JIS hexadecimal
(For details, refer to the section for the Barcode Data Command.)

NOTE: "NUL" code in the table cannot be used, however, it can be designated. If it is designated, data following "NUL" code is not printed.
(14) GS1 DataBar Expanded/GS1 DataBar Expanded Stacked

- Linear barcode symbol

GS1 DataBar, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, UPC-A, UPC-E, EAN-13, EAN-8
[Transfer Code]

|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  | 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

- Linear barcode symbol

GS1 DataBar Expanded, GS1 DataBar Expanded Stacked

- Composite Component

CC-A or CC-B or CC-C
[Transfer Code]

| - | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 |  |  | SP | 0 |  | P |  | p |  |  |  |  |  |  |  |  |
| 1 |  |  | ! | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 |  |  | " | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 |  |  | FNC1 | 3 | C | S | c | s |  |  |  |  |  |  |  |  |
| 4 |  |  |  | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 |  |  | \% | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 |  |  | \& | 6 | F | V | f | V |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 |  |  | $($ | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 |  |  | ) | 9 | 1 | Y | i | y |  |  |  |  |  |  |  |  |
| A |  |  | * | : | J | Z | j | z |  |  |  |  |  |  |  |  |
| B |  |  | + | ; | K |  | k |  |  |  |  |  |  |  |  |  |
| C |  |  | , | < | L |  | I |  |  |  |  |  |  |  |  |  |
| D |  |  | - | = | M |  | m |  |  |  |  |  |  |  |  |  |
|  |  |  | . | $>$ | N |  | n |  |  |  |  |  |  |  |  |  |
| F |  |  | 1 | ? | 0 |  | 0 |  |  |  |  |  |  |  |  |  |

- Linear barcode symbol

UCC/EAN-128 with CC-A or CC-B or CC-C
[Transfer Code]

| - | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | NUL | DLE | SP | 0 | @ | P |  | p |  |  |  |  |  |  |  |  |
| 1 | SOH | DC1 | ! | 1 | A | Q | a | q |  |  |  |  |  |  |  |  |
| 2 | STX | DC2 | " | 2 | B | R | b | r |  |  |  |  |  |  |  |  |
| 3 | ETX | DC3 | \# | 3 | C | S | C | S |  |  |  |  |  |  |  |  |
| 4 | EOT | DC4 | \$ | 4 | D | T | d | t |  |  |  |  |  |  |  |  |
| 5 | ENQ | NAK | \% | 5 | E | U | e | u |  |  |  |  |  |  |  |  |
| 6 | ACK | SYN | \& | 6 | F | V | f | V |  |  |  |  |  |  |  |  |
| 7 | BEL | ETB | ' | 7 | G | W | g | w |  |  |  |  |  |  |  |  |
| 8 | BS | CAN | ( | 8 | H | X | h | x |  |  |  |  |  |  |  |  |
| 9 | HT | EM | ) | 9 | 1 | Y | 1 | y |  |  |  |  |  |  |  |  |
| A | LF | SUB | * | : | J | Z | j | Z |  |  |  |  |  |  |  |  |
| B | VT | ESC | + | , | K | [ | k | \{ |  |  |  |  |  |  |  |  |
| C | FF | FS | , | < | L | $\backslash$ | 1 | \| |  |  |  |  |  |  |  |  |
| D | CR | GS | - | = | M | ] | m | \} |  |  |  |  |  |  |  |  |
| E | so | RS | . | > | N | $\wedge$ | n | $\sim$ |  |  |  |  |  |  |  |  |
| F | SI | us | / | ? | 0 | - | $\bigcirc$ | $\Delta$ |  |  |  |  |  |  |  |  |

Note: " $(7 \mathrm{CH})$ " cannot be used because it is regarded as a separator for a composite component.
(1) How to send control code data:

* In the case of UCC/EAN-128 with CC-A or CC-B or CC-C

$$
\begin{array}{lll}
\text { NUL }(00 \mathrm{H}) & \rightarrow & >@(3 \mathrm{EH}, 40 \mathrm{H}) \\
\text { SOH }(01 \mathrm{H}) & \rightarrow & >\mathrm{A}(3 \mathrm{EH}, 41 \mathrm{H}) \\
\text { STX }(02 \mathrm{H}) & \rightarrow & >\mathrm{B}(3 \mathrm{EH}, 42 \mathrm{H}) \\
\quad \text { to } & & \\
\text { GS }(1 \mathrm{DH}) & \rightarrow & >](3 \mathrm{EH}, 5 \mathrm{DH}) \\
\text { RS }(1 \mathrm{EH}) & \rightarrow & >^{\wedge}(3 \mathrm{EH}, 5 \mathrm{EH}) \\
\text { US }(1 \mathrm{FH}) & \rightarrow & >-(3 \mathrm{EH}, 5 \mathrm{FH})
\end{array}
$$

(2) How to send a special code:

$$
>(3 \mathrm{EH}) \quad \rightarrow \quad>0(3 \mathrm{EH}, 30 \mathrm{H})
$$

(1) Separator

In the case of the stacked barcode (GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked), the separator is positioned between the stacked barcodes.

In the case of composite component, the separator is positioned between the linear barcode and the 2D code.

The height is different depending on the versions of barcode, and fixed.
(Example) Height of the separator for the stacked barcode


| Version of barcode | Height of separator |
| :--- | :--- |
| GS1 DataBar Stacked | Module width |
| GS1 DataBar Stacked <br> Omnidirectional | Module width $\times 3$ layers |
| GS1 DataBar Expanded Stacked | Module width $\times 3$ layers |

(Example)
(Example) Height of the separator for the composite component


| Version of barcode | Height of separator |
| :--- | :--- |
| GS1 DataBar | Module width |
| GS1 DataBar Truncated | Module width |
| GS1 DataBar Stacked | Module width |
| GS1 DataBar Stacked Omnidirectional | Module width |
| GS1 DataBar Limited | Module width |
| GS1 DataBar Expanded | Module width |
| GS1 DataBar Expanded Stacked | Module width |
| UPC-A | Module width $\times 2 \times 3$ layers |
| UPC-E | Module width $\times 2 \times 3$ layers |
| EAN-13 | Module width $\times 2 \times 3$ layers |
| EAN-8 | Module width $\times 2 \times 3$ layers |
| UCC/EAN-128 with CC-A or CC-B | Module width |
| UCC/EAN-128 with CC-C | Module width |

(2) Recommended barcode height

| Barcode version | Height *1 |
| :--- | :--- |
| GS1 DataBar | $33 x$ or above |
| GS1 DataBar Truncated | $13 x$ |
| GS1 DataBar Stacked | $5 x / 7 x$ |
| GS1 DataBar Stacked Omnidirectional | $33 x$ or above |
| GS1 DataBar Limited | $10 x$ or above |
| GS1 DataBar Expanded | $33 x$ or above |
| GS1 DataBar Expanded Stacked | $33 x$ or above |
| UPC-A | $74 x$ |
| UPC-E | $74 x$ |
| EAN-13 | $74 x$ |
| EAN-8 | $60 x$ |
| UCC/EAN-128 with CC-A or CC-B | $25 x$ |
| UCC/EAN-128 with CC-C | $25 x$ |
|  | $* 1: x=1$ module size |

(3) Barcode height calculation method

Example) In the following conditions:
203-dpi print head, Module width: 02, Recommended barcode height: 33x
$(25.4 \mathrm{~mm} / 203 \mathrm{dpi}) \times 2$ dots $\times 33 x \approx 8.25 \mathrm{~mm}$
Since the height is specified in units of 0.1 mm , " 0082 " or " 0083 " is to be set as 8.25 mm .
(4) Max. number of data digits

| Version of barcode | Max. number of digits |
| :--- | :--- |
| GS1 DataBar | 13 digits (Numeral only) |
| GS1 DataBar Truncated | 13 digits (Numeral only) |
| GS1 DataBar Stacked | 13 digits (Numeral only) |
| GS1 DataBar Stacked Omnidirectional | 13 digits (Numeral only) |
| GS1 DataBar Limited | 13 digits (Numeral only) |
| GS1 DataBar Expanded | 74 digits (Numeral only) *1 |
|  | 41 digits (Alphabet only) |
| GS1 DataBar Expanded Stacked | 74 digits (Numeral only) *1 |
|  | 41 digits (Alphabet only) |
| UPC-A | 12 digits (Numeral only) |
| UPC-E | 10 digits (Numeral only) |
| EAN-13 | 12 digits (Numeral only) |
| EAN-8 | 7 digits (Numeral only) |
| UCC/EAN-128 with CC-A or CC-B | 48 digits |
| UCC/EAN-128 with CC-C | 48 digits |
| Composite component CC-A or CC-B *4 | Max. 338 digits *2 |
| Composite component CC-C | Max. 2000 digits *3 |

*1: Max. 74 digits/41 digits, including AI and FID.
In the following cases, the print results vary in spite of the same number of digits.
Non printable: "1A2B3C4D5E6F7G8H9IOJ1K2L3M4N5O6P7Q8R9S0T1U2V3W"
Printable: "ABCDEFGHIJKLMNOPQRSTUVW12345678901234567890123"
*2: Conditions to enable printing $1184>\mathrm{X}$ (See the following formula.)
When data includes only numbers: $1184>$ (No. of numeric characters $\times 3.5$ )
This is just a rough formula and different depending on the way characters are included.
*3: Conditions to enable printing $8264>X($ See the following formula.)
When data includes only numbers: $8264>($ No. of numeric characters $\times 3.5$ )
This is just a rough formula and different depending on the way characters are included. The number of digits including the data for the liner symbols must not exceed 2000. Exceeded data is ignored.
*4: Selection between CC-A (MicroPDF417 variant) and CC-B (MicroPDF417) is automatically performed.

- GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar limited, UPC-E, EAN-8

CC-A: $167>X$ (See the following formula.)
CC-B: $168 \leq X$ (See the following formula.)

- GS1 DataBar, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked, UPC-A, EAN-13, UCC/EAN-128 with CC=A or CC-B

CC-A: $197>X$ (See the following formula.)
CC-B: $198 \leq \mathrm{X}$ (See the following formula.)
[How to calculate " $X$ "]
$X=($ No. of numeric characters $\times 5)+($ No. of capitals $\times 6)+($ No. of small letters $\times 7)+($ No. of symbols $\times 8)$
*5: When UCC/EAN-128 with CC-A or CC-B is specified:
Encoding data exceeding 44 digits into MicroPDF (CC-A or CC-B) is not allowed due to the specification. The number of digits per line is restricted depending on the data volume for UCC/EAN-128. Generally, the barcode with the more data digits can take the more number of digits per line. To secure the more number of data digits for MicroPDF, data volume for UCC/EAN-128 need to be reduced. The printer will not draw a barcode if the number of data digits exceeds this specification.
*6: When UCC/EAN-128 with CC-C is specified:
Encoding data exceeding 90 digits into MicroPDF (CC-C) is not allowed due to the specification. The number of digits per line is restricted depending on the data volume for UCC/EAN-128. Generally, the barcode with the more data digits can take the more number of digits per line. To secure the more number of data digits for MicroPDF, data volume for UCC/EAN-128 need to be reduced. The printer will not draw a barcode if the number of data digits exceeds this specification.
*7: When GS1 Databar Expanded is specified:
It is possible for GS1Databar Expanded to encode 74-digit numeral and 41-digit alphabet. But if the number of elements of the encoding result exceeds 235 elements ${ }^{\left({ }^{(* 1)}\right.}$ or the maximum number of modules ${ }^{\left({ }^{*} 2\right)}$ exceeds 543 modules, the printer will not draw a barcode.
(*1) Element: The number of spaces and bars
The spaces at both sides of a barcode symbol are counted in.
(*2) Number of modules: Total number of space dots and bar dots
In the case 1 module equals to 1 dot, the barcode symbol is comprised of 543 dots at the maximum.

|  | Left <br> guard | Check <br> Chara. | Finder <br> pattern 1 | Data <br> chara. 1 | Data <br> chara. 2 | Finder <br> pattern 2 | Data <br> chara. 3 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Element | 2 | 8 | 5 | 8 | 8 | 5 | 8 |
| Module | 2 | 17 | 15 | 17 | 17 | 15 | 17 |


| Data <br> chara. 20 | Finder <br> pattern 11 | Data <br> chara. 21 | Right <br> guard |
| :---: | :---: | :---: | :---: |
| 8 | 5 | 8 | 2 |
| 17 | 15 | 17 | 2 |

(5) Check digit exclusively for each barcode version

| Version of barcode | Check digit |
| :--- | :--- |
| GS1 DataBar (Truncated) | MOD79 |
| GS1 DataBar Stacked | MOD79 |
| GS1 DataBar Stacked Omnidirectional | MOD79 |
| GS1 DataBar Limited | MOD89 |
| GS1 DataBar Expanded | MOD211 |
| GS1 DataBar Expanded Stacked | MOD211 |

For the check digit calculation method, refer to ISO 24724 or AIM ITS 99-001.

## 13. DRAWING OF BARCODE DATA

: Field to be incremented/decremented
(The absence of a solid line invalidates incrementing/decrementing.)
$\qquad$ : Field subject to printing numerals under bars.
Type of Barcode: JAN8, EAN8
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10


## Type of Barcode: JAN13, EAN13

(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10

(4) Auto affix of modulus $10+$ price C/D 4 digits

| No. of Input Digits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 digits | Input Data | $\mathrm{D}_{1}$ $\mathrm{D}_{2}$ $\mathrm{D}_{3}$ $\mathrm{D}_{4}$ $\mathrm{D}_{5}$ $\mathrm{D}_{6}$ $\mathrm{D}_{7}$ $\mathrm{D}_{8}$ $\mathrm{D}_{9}$ $\mathrm{D}_{10}$ $\mathrm{D}_{11}$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Drawing Data |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other than 11 digits |  | Not to be drawn |  |  |  |  |  |  |  |  |  |  |  |  |

(5) Auto affix of modulus $10+$ price C/D 5 digits


## Type of Barcode: UPC-A

(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10

(4) Auto affix of modulus $10+$ price C/D 4 digits

(5) Auto affix of modulus $10+$ price C/D 5 digits


Type of Barcode: UPC-E
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10


Type of Barcode: JAN8 +2 digits, EAN8 + 2 digits
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10


Type of Barcode: JAN8 +5 digits, EAN8 + 5 digits
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10


Type of Barcode: JAN13 +2 digits, EAN13 + 2 digits
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10

(4) Auto affix of modulus $10+$ price C/D 4 digits

(5) Auto affix of modulus 10 + price C/D 5 digits


Type of Barcode: JAN13 +5 digits, EAN13 + 5 digits
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10

(4) Auto affix of modulus $10+$ price C/D 4 digits

(5) Auto affix of modulus $10+$ price C/D 5 digits


Type of Barcode: UPC-A + 2 digits
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10

(4) Auto affix of modulus $10+$ price C/D 4 digits

(5) Auto affix of modulus 10 + price C/D 5 digits


Type of Barcode: UPC-A + 5 digits
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10

(4) Auto affix of modulus $10+$ price C/D 4 digits

| No. of Input Digits |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 digits | Input Data | $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|l\|l\|l\|l\|l\|l\|l\|l\|} \hline \mathrm{D}_{1} & \mathrm{D}_{2} & \mathrm{D}_{3} & \mathrm{D}_{4} & \mathrm{D}_{5} & \mathrm{D}_{6} & \mathrm{D}_{7} & \mathrm{D}_{8} & \mathrm{D}_{9} & \mathrm{D}_{10} & \mathrm{D}_{11} & \mathrm{D}_{12} & \mathrm{D}_{13} & \mathrm{D}_{14} & \mathrm{D}_{15} \\ \hline \end{array}$ |  |  |  |  |  |  |  |  |  |  |
|  | Drawing Data |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other than 15 digits |  | Not to be drawn |  |  |  |  |  |  |  |  |  |  |

(5) Auto affix of modulus $10+$ price C/D 5 digits


Type of Barcode: UPC-E + 2 digits
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10


Type of Barcode: UPC-E + 5 digits
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10


## Type of Barcode: MSI

(1) No affix

(2) IBM modulus 10 check

(3) Auto affix of IBM modulus 10

(4) IBM modulus 10 + Auto affix of IBM modulus 10

(5) IBM modulus 11 + Auto affix of IBM modulus 10


Type of Barcode: Interleaved 2 of 5
(1) No affix

(2) Modulus 10 check

(3) Auto affix of modulus 10

(4) Auto affix of DBP modulus 10


Type of Barcode: Industrial 2 of 5
(1) No affix

(2) Modulus check character check

(3) Auto affix of modulus check character


Type of Barcode: CODE39 (Standard)
(1) No affix

(2) Modulus 43 check

(3) Auto affix of modulus 43


Type of Barcode: CODE39 (Full ASCII)
(1) No affix

(2) Modulus 43 check

(3) Auto affix of modulus 43


NOTE: Numerals under bars are not characters corresponding to the bars but the characters of the codes received are drawn.

Type of Barcode: NW7
(1) No affix

C/D check
Auto affix


Type of Barcode: No auto selection of CODE128 (Character ">" to be also counted as a digit)
(1) No affix

PSEUDO103 check
Auto affix of PSEUDO103


NOTE: The following characters are not drawn as numerals under bars. NUL (OOH) to US (1FH), FNC1, FNC2, FNC3, SHIFT, CODE A, CODE B, CODE C

Type of Barcode: Auto selection of CODE128
(1) No affix

C/D check
Auto affix of C/D


NOTE: The following characters are not drawn as numerals under bars.
NUL (OOH) to US (1FH), FNC1, FNC2, FNC3, SHIFT, CODE A, CODE B, CODE C

Type of Barcode: CODE93
(1) No affix

C/D check
Auto affix of C/D


NOTE: Numerals under bars are not characters corresponding to the bars but the characters of the codes received are drawn.

Type of Barcode: UCC/EAN128
(1) No affix

C/D check
Auto affix of C/D


Type of Barcode: POSTNET
(1) Auto affix of dedicated C/D


Type of Barcode: RM4SCC
(1) Auto affix of dedicated $C / D$


Type of Barcode: KIX CODE
(1) No affix


Type of Barcode: GS1 DataBar, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited
(1) Auto affix of dedicated C/D


Type of Barcode: GS1 DataBar Expanded
(1) Auto affix of dedicated $C / D$


Type of Barcode: (GS1 DataBar family) UPC-A
(1) Auto affix of Modulus 10


Type of Barcode: (GS1 DataBar family) UPC-E
(1) Auto affix of Modulus 10


Type of Barcode: (GS1 DataBar family) EAN-8
(1) Auto affix of Modulus 10


Type of Barcode: (GS1 DataBar family) EAN13
(1) Auto affix of Modulus 10


Type of Barcode: (GS1 DataBar family) UCC/EAN128
(1) Auto affix of $C / D$

14. AUTOMATIC ADDING OF STARTISTOP CODE


| Type of Barcode | Designation of StartStop Code | Input Data |  | g Data |
| :---: | :---: | :---: | :---: | :---: |
| CODE 39 | Start/stop code not added | 12345ABC | Standard | 12345ABC |
|  |  |  | Full ASCII | 12345ABC |
|  |  | *12345ABC | Standard | *12345ABC |
|  |  |  | Full ASCII | *12345ABC |
|  |  | 12345ABC* | Standard | $12345 \mathrm{ABC}^{*}$ |
|  |  |  | Full ASCII | $12345 A B C^{*}$ |
|  |  | *12345ABC* | Standard | *12345ABC* |
|  |  |  | Full ASCII | *12345ABC* |
|  |  | $12345 *$ ABC | Standard | $12345 *$ ABC |
|  |  |  | Full ASCII | 12345/JABC |
|  |  | **12345ABC | Standard | **12345ABC |
|  |  |  | Full ASCII | */J12345ABC |
|  |  | *12345ABC** | Standard | *12345ABC** |
|  |  |  | Full ASCII | *12345ABC/J* |
|  |  | *12345*ABC* | Standard | *12345*ABC* |
|  |  |  | Full ASCII | *12345/JABC* |


| Type of Barcode | Designation of StartStop Code | Input Data | Drawing Data |
| :---: | :---: | :---: | :---: |
| NW7 | Omit <br> (No designation) | 12345678 | a12345678a |
|  |  | a12345678 | a12345678 |
|  |  | 12345678c | 12345678c |
|  |  | b12345678d | b12345678d |
|  |  | $12345 a 678$ | a12345a678a |
|  |  | ab12345678 | ab12345678 |
|  |  | a12345678bc | a12345678bc |
|  |  | d12345b678c | d12345b678c |
|  | Add start code | 12345678 | a12345678 |
|  |  | a12345678 | aa12345678 |
|  |  | 12345678c | a12345678c |
|  |  | b12345678d | ab12345678d |
|  |  | $12345 a 678$ | a12345a678 |
|  |  | ab12345678 | aab12345678 |
|  |  | a12345678bc | aa12345678bc |
|  |  | d12345b678c | ad12345b678c |
|  | Add stop code | 12345678 | 12345678a |
|  |  | a12345678 | a12345678a |
|  |  | 12345678c | 12345678ca |
|  |  | b12345678d | b12345678da |
|  |  | $12345 a 678$ | 12345a678a |
|  |  | ab12345678 | ab12345678a |
|  |  | a12345678bc | a12345678bca |
|  |  | d12345b678c | d12345b678ca |
|  | Start/stop code not added | 12345678 | 12345678 |
|  |  | a12345678 | a12345678 |
|  |  | 12345678c | 12345678c |
|  |  | b12345678d | b12345678d |
|  |  | $12345 a 678$ | 12345 a 78 |
|  |  | ab12345678 | ab12345678 |
|  |  | a12345678bc | a12345678bc |
|  |  | d12345b678c | d12345b678c |

## 15. ABOUT USB MEMORY

* The available USB memory is up to 16GB.
* It is not supported to use the USB memory with no free space.

