



# Accu-Chek<sup>®</sup> Inform II

BLOOD GLUCOSE MONITORING SYSTEM

# Supplement to the Operator's Manual v6

*Changes from SW 04.02 to SW 04.03 and Amendments to Operator's Manual v6* 



#### **Revision History**

| Manual version | Revision date | Changes  |
|----------------|---------------|--|
| Version 1.0    | 2018-11       | New Document, created for SW 04.03 and as an amendment to Operator's Manual Version 6.0 for SW 04.02 |

#### **Purpose of document**

This document provides a description of changes to the Operator's Manual V6 for SW 04.03.00.

This supplement is valid for and intended to be used in conjunction with the Accu-Chek Inform II Operator's Manual version 6.0. It is not a replacement for the complete Accu-Chek Inform II Operator's Manual version 6.0.



Be sure to read the complete Accu-Chek Inform II Operator's Manual version 6.0.

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### 1 What is new in SW 04.03?

#### Battery status information in Docked and Diagnostics screens

**Docked screen - battery status** Docking the meter in the base unit allows you to charge the battery pack. The *Docked* screen displays a large battery icon showing the current charging status of the battery. This information enables you to choose the meter with the best battery status for the next test.

Battery status is displayed as follows:



| lcon | Description   |
|------|---|
|      | Battery is empty and device cannot be used.               |
|      | Test may be possible. Software updates and WLAN disabled. |
|      | Normal use possible, only software updates disabled       |
|      | All functions available                                   |

*Improved charging performance* After 2 minutes in the base unit, the meter powers off and goes into standby mode. The screen goes blank and the charging process starts. Charging the battery pack in standby mode improves charging performance.

When the screen is blank during the charging process, you can power on the meter at any time **to check** the battery charging status or that the meter is properly docked by touching the screen or pressing the On/Off button ①. The screen lights up for 2 minutes and displays the *Docked* screen with the colored battery icon best describing the current battery status.

If the meter is **NOT** properly docked, a short "humming" noise sporadically occurs and the battery charging icon

- Remove the meter from the base unit.
- Redock it by gently pushing it into the base unit to ensure proper contact.

Once the meter is properly docked and charging, the battery charging icon stops flashing. See section "Low power icons" in Operator's Manual version 6.0 on page 167.

When the battery pack is fully charged, the meter powers on automatically and stays on. The screen displays the green battery icon to show that the battery is fully charged.

### Diagnostics screen - battery condition

The cycle of battery charging, discharging, and recharging ages the battery. Over its lifespan, the battery pack will thus gradually loose capacity. This means, over time, it will power the meter for increasingly shorter periods of time.

In addition to the relative charging status indicated by the battery icon in the Docked screen, the meter provides information about the condition of the battery in the *Diagnostics* screen.



Battery Condition is displayed as follows:

- Good: capacity sufficient for normal usage
- Limited: capacity reduced due to battery aging

If a battery is no longer providing the expected performance and battery condition is displayed as *Limited*, contact your Roche Support Center.

#### Configurable automatic shutdown of undocked meter

SW 04.03 introduces a new configurable automatic shutdown feature that contributes to improving battery performance and extending battery lifespan.

#### Situation up to and including SW 04.02

When NOT docked, the meter powers itself off after a configurable time without activity (e.g., pressing a key, touching the screen) to conserve energy. Although the screen goes blank, the meter is in standby mode and continues to draw power from the battery pack to maintain date/time and run various functions in the back-ground such as wireless communication. Thus in standby mode ("Automatic power off"), energy continues to be drawn from the battery and it depletes within a day if not docked.

For more information see sections titled "Power off meter", "Automatic power off", "Shut down meter", and "Automatic shutdown" in Accu-Chek Inform II Operator's Manual, version 6.0, pages 22-23.

#### New concept with SW 04.03

If the meter is manually shut down or shuts down due to a Download Lockout or because the battery pack is critically low, wireless communication and all other functionalities are shut down (although date and time are maintained).

SW 04.03 introduces a new power management concept. The meter can now be configured to automatically shut down 30 minutes after power-off when it is NOT docked. This feature is enabled by default. With this new configurable automatic shutdown feature, the meter will automatically wake up on a regular basis for wireless communication. The setting for this wake-up timer is configurable in 1-minute steps starting from a base of 10 minutes. In other words, you can configure the meter to wake up every 10 minutes or every 11 minutes and so on up to once every 24 hours. It is possible to disable this wake-up timer by setting the interval value to "0" in the DMS. The default setting with SW 04.03 is every 30 minutes. (See configuration options in table on page 10.)

When you power up the meter from shutdown mode, it will take slightly longer than from power-off (standby) mode.

If you configure the meter to wake up more often from shutdown for wireless communication (if WLAN is enabled and the meter is not docked), more power will be drawn from the battery pack and the meter will need to be recharged more frequently. However, when you power up the meter, it is more likely to be synchronized. If you choose to leave the meter in shutdown until you power it up manually or opt for longer time intervals between waking up for wireless communication, the battery will last longer but synchronization with the DMS may also take longer. In this case however, the meter's database will probably need to be synchronized before you can start testing.

Which option you choose will be determined by the workflow needs of your institution.

### **Configuration options**

| Subject/Attribute   | Range  | Default | Device | DMS |
|---|--|---------|--------|-----|
| Timer   |  |         |        |     |
| Power-off timeout (meter powers off<br>automatically and goes into standby mode<br>if no activity)* | 30 – 3,600 s                                 | 300     | N      | Y   |
| Shut down (meter automatically shuts down 30 minutes after powering off)                            | 0: disabled<br>1: enabled                    | 1       | N      | Y   |
| Time Interval reconnect (0 = disabled)  | 0: disabled<br>10 – 1440 minutes<br>(24 hrs) | 30      | N      | Y   |
| * Not applicable in measurement mode  |  |         | •      |     |

Two additional options for barcode masking have been added:

- define a character type (numeric or non-numeric) that will be kept as part of the ID
- define separator characters to isolate the ID within barcode data of variable length

The complete barcode masking options are defined as follows:

#### **Operator and patient ID barcode masks**

| Barcode mask character | Definition  |
|------------------------|---|
| A-Z/a-z, 0-9           | If not preceded by the Caret ("^"), the scan data character must be the same as the mask character. This character is not saved as part of the ID. If the characters are not the same, the scan data is not a valid ID.   |
| Dollar ("\$")          | The scan data character in this position is kept as part of the ID.   |
| Asterisk ("*")         | The scan data character in this position is not kept as part of the ID.   |
| Tilde ("~")            | The scan data character in this position must be a number, 0-9, and it is not kept as part of the ID. If the scan data character is not a number, the scan data is not a valid ID.  |
| Plus ("+")             | The scan data character in this position must be an alpha character, A – Z/ a-z, and it is not kept as part of the ID. If the scan data character is not an alpha character, the scan data is not a valid ID.   |
| Caret ("^")            | This mask character denotes that the scan data character must be equal to the next character in the barcode mask after the " $^{n}$ , and that the scan data character is kept as part of the ID. If the scan data character is not equal to the mask character following the " $^{n}$ , the barcode reading is invalid as an ID. |
| Caret Plus ("^+")      | The "^" can be combined with the plus ("+"). This denotes that the scan data character in this position must be an alpha character, $A - Z/a-z$ , and that it is kept as part of the ID. If the scan data character is not an alpha character, the scan data is not a valid ID.   |
| Caret Tilde ("^~")     | The "^" can be combined with the tilde ("~"). This denotes that the scan data character in this position must be a number, 0-9, and that it is kept as part of the ID. If the scan data character is not a number, the scan data is not a valid ID.   |

The barcode mask can be preceded by optional square brackets containing the separator characters -  $[nC_1mC_2]$ - to extract the ID from any position within the barcode. The ID to be extracted must start after the n<sup>th</sup> occurrence of the starting character  $C_1$  and must end after the m<sup>th</sup> occurrence of the ending character  $C_2$ . The extracted string of characters will be processed by the succeeding mask (see page 11) to identify the patient ID.

 $C_1$  and  $C_2$  can be represented by any readable characters, or by any hexadecimal ASCII values if marked by a preceding backslash ("\"). See the table of ASCII characters on page 24.

#### Example 1:

[1\$1+]^+^~^~^~^~~~~~

Extract the ID between first occurrence of "\$" and first occurrence of "+". The ID must start with one alpha character (A-Z/a-z), followed by seven numbers (0-9). This mask will extract the ID X1234567 from the following barcode example:

~Jane Doe%\$X1234567+5715486266Z?01-09-1979

#### Example 2:

[3\3b1\3b]^+^~^~^~^~~~

Extract the ID between  $3^{rd}$  and  $4^{th}$  semicolon (; = 0x3b). This mask will extract the ID X1234321 from the following barcode example:

;Mary Miller;;X1234321;5715486266Z;01-09-1982

#### Add barcode content to a result

| Patie | ent ID                      |                         |                        | 12:48 p                   | m   |          |        |
|-------|-----------------------------|-------------------------|------------------------|---------------------------|-----|----------|--------|
|       |                             |                         |                        |                           |     |          |        |
|       | Barco                       | de Co                   | onfirm                 | ation                     |     |          |        |
| ?     | D-50<br>~Jar<br>+57<br>1979 | )4:<br>1e Doe<br>154862 | e%\$X1<br>266Z?(       | 234567<br>)1-09-          |     |          |        |
|       |                             | Patie                   | ent ID                 |                           |     | 12:48    | pm     |
|       |                             |                         |                        |                           |     |          |        |
|       | $\overline{)}$              |                         | Barco                  | de Conf                   | irm | ation    |        |
| 11/19 | 9/18                        | ?                       | D-50                   | 4:                        |     |          |        |
|       |                             |                         | Jane                   | Doe                       |     |          |        |
|       |                             |                         | X123<br>57154<br>01-09 | 4567<br>486266Z<br>)-1979 |     |          |        |
|       |                             |                         | $\langle$              |                           |     |          | $\sum$ |
|       |                             | 11/1                    | 9/18                   |                           | Ŷ   | <b>I</b> |        |

With SW 04.03 it is now possible to read and display the complete content of a barcode (not only the extracted ID) and add it as a comment to the test result, to be further processed by the DMS. This option can only be configured via a DMS. The following options can be set:

- Barcode content will not be added to the result
- Barcode content will be added to the result
- Barcode content will be displayed for confirmation after scanning and then added to the result

If the meter is set to the last option (enabled with confirmation), you can choose to display the complete barcode content in the confirmation screen as follows:

- The barcode is displayed as a continuous string of characters without any formatting. The separator characters ("~%\$+?") are shown. See example in top screen in the illustration on the left.
- The barcode is divided into separate lines for easier reading. The separator characters ("~%\$+?") are replaced by line breaks. See example in the bottom screen in the illustration on the left.

The replacement of separator characters by line breaks is only applied temporarily for display in the *Barcode Confirmation* screen. The barcode information stored with the test result contains the original separator characters.

During a patient test, the *Barcode Confirmation* screen appears before the *Patient Confirmation* screen, if both are enabled.

### **Configuration options**

| Subject/Attribute   | Range   | Default | Device | DMS |
|---|---|---------|--------|-----|
| Barcode Configuration   |   |         |        |     |
| Add barcode to patient test result  | 0: disabled<br>1: enabled<br>2: enabled and confirm | 0       | N      | Y   |
| Barcode Separators: List of separator<br>characters (readable characters, or hexa-<br>decimal ASCII values* preceded by a back-<br>slash) to be replaced by line breaks on the<br>confirmation screen. Only valid if Add bar-<br>code to patient test result=2. | 0-30 characters                                     | un      | N      | Y   |
| * See the table of ASCII characters on page 24.   |   |         |        |     |

# Entering a patient ID with barcode scanner

Name: John Doe

9 🕓 (

ID: 123456789

11/19/18

Patient ID

A

F)(G

K)(L

← )(123

11/19/18

В

When the screen for entering the patient ID is displayed:

1 Press and release (). The button now appears with a black background (during the scan).

⁄10-20 cm 4-8 in

2 Hold the meter so that the window of the barcode scanner is approx. 10-20 cm (4-8 in) above the barcode you wish to read.

The meter beeps once the barcode has been read successfully.

3 If the function *Patient Confirmation* is enabled, verify and confirm the complete unmasked barcode information.

The extracted patient  $ID^1$  appears in the patient ID field of the succeeding screens. The barcode scanner turns off after 10 seconds if a barcode is not scanned.

1. See also section "Improved barcode masking" in this supplement, starting on page 11.

#### **TLS encrypted WLAN communication**

Communication via WLAN can be encrypted in the same way as wired communication between base unit and DMS. This option can only be configured via a DMS.

#### **Configuration options**

| Subject/Attribute                    | Range                     | Default | Device | DMS |
|--------------------------------------|---------------------------|---------|--------|-----|
| Electronic communication             |                           |         |        |     |
| TLS Encryption of WLAN communication | 0: disabled<br>1: enabled | 0       | N      | Y   |

### 2 Amendments to Operator's Manual version 6.0

#### **Revised sections**

| 9.2 Installing or replacing the battery pack | The following information has been added on page 121:  |
|--|--|
|  | Replace the battery pack within approximately 10 min-<br>utes to retain the date and time settings. Beyond this<br>period of time, you may have to re-enter date and time.<br>Replace the battery pack only in shutdown mode, see<br>page 122.               |
|  |  |
|  | Data stored in the memory (see section 12.1 of the<br>Operator's Manual) is not lost when replacing the<br>battery pack even if no battery is inserted for a longer<br>period of time. All settings (other than date/time - see<br>above) are also retained. |
|  |  |

#### 12.1 Technical data

The following revisions have ben made on page 175:

| Specification        | Meter   | Base unit   | Power supply unit  |
|----------------------|---|---|--|
| Battery voltage/type | 3.7 volt rechargeable (lithium technology)  | N/A   | N/A  |
| Input voltage        | +7.5 V DC   | Base Unit: +12 V DC   | 100 to 240 V AC  |
|                      |   | legacy Base Unit Light:<br>+7.5 V DC  |  |
|                      |   | NEW Base Unit Light:<br>+12V DC   |  |
| Input frequency      | DC  | DC  | 50 to 60 Hz  |
| Input current        | 1.7 A (max)   | Base Unit: 1.25 A (max)<br>legacy Base Unit Light:<br>1.7 A (max)<br>NEW Base Unit Light:<br>1.25 A (max) | 350 to 150 mA<br>(REF 07006098001,<br>07455976190)<br>400 to 150 mA<br>(REF 08692432001,<br>08692432160) |
| Battery capacity     | 30 (subsequent)<br>measurements possible<br>after 90 min of charging <sup>1</sup> | N/A   | N/A  |
| Interfaces           | Charging contacts<br>IR port<br>Barcode scanner<br>WLAN<br>(Channel 1-11 only)    | Charging contacts<br>IR port<br>RJ45 Ethernet (Base Unit)<br>RJ25 (Base Unit Light)<br>USB type B *       | DC connector<br>Replaceable AC<br>input contacts   |

1. A fully charged battery pack will provide sufficient power for at least 100 tests within 5 hours including wireless communication (WLAN, if available and enabled).

| Specification      | Meter   | Base unit  | Power supply unit |
|--------------------|---|--|-------------------|
| Data transfer rate | WLAN: up to 54 Mbps   | IR: 9.6K - 115K bps <sup>1</sup><br>Ethernet: 10/100 Mbps<br>(auto-negotiate)<br>full-duplex <sup>1</sup><br>USB: 12 Mbps <sup>1</sup> | N/A               |
|                    |   | In combination with the<br>Base Unit Hub:  |                   |
|                    |   | IR: 9.6K - 115K bps <sup>2</sup><br>Ethernet:<br>10 Mbps half-duplex <sup>3</sup>  |                   |
| Supported barcodes | Code 128, Code 39,<br>Code 93, EAN 13,<br>Interleaved 2 of 5 (with or<br>without checksum),<br>Codabar, GS1 DataBar Lim-<br>ited, Aztec, QR Code, Data-<br>Matrix, PDF417 | N/A  | N/A               |

- 1. Accu-Chek Inform II Base Unit
- 2. Accu-Chek Inform II Base Unit Light (NEW and legacy versions)
- 3. Accu-Chek Inform II Base Unit Hub

|  | shown in red.   |                       |
|--|---|-----------------------|
| Item   | Description   | REF/Catalog<br>Number |
| Accu-Chek Inform II Meter                        | Meter, equipped with built-in WLAN functionality  | 05060303001           |
| Accu-Chek Inform II Battery Pack                 | Rechargeable battery pack (for meters with serial no. above UU14000000)   | 06869904001           |
| Accu-Chek Inform II<br>Battery Compartment Cover | Replacement cover for meter battery<br>compartment (for meters with serial no. above<br>UU14000000)                   | 06869823001           |
|  |   |                       |
| Accu-Chek Inform II Base Unit (NEW)              | Equipped with charging and connectivity functionality   | 07671717190           |
| Accu-Chek Inform II Base Unit Light (NEW)        | Equipped with charging functionality  | 08376824190           |
| Power Supply*                                    | Power supply (international edition) for<br>Base Unit Light (NEW) REF 08376824190/<br>Base Unit (NEW) REF 07671717190 | 07006098001           |
| Power Supply*                                    | Power supply (North America) for<br>Base Unit Light (NEW) REF 08376824190/<br>Base Unit (NEW) REF 07671717190         | 07455976190           |

#### 12.2 Further Information -Ordering

Changes to the ordering information in the Accu-Chek Inform II Operator's Manual version 6.0 (page 177) are shown in red.

#### <sup>\*</sup> Important note

Power supply REF 07006098001, (International edition) and Power supply REF 07455976190, (North America), Type: FW7555M/12, Input: 100-240V/50-60Hz/350-150 mA, Output: 12V === 1.25A will be discontinued and replaced by:

Power supply REF 08692432001, (International edition) and Power supply REF 08692432160, (North America), Type: FW8001M/12, Input: 100-240V/50-60Hz/400-150 mA, Output: 12V === 1.50A

The change in power supply has no effect on product performance. Type: FW7555M/12 and Type: FW8001M/12 can be used in parallel.

| Item   | Description   | REF/Catalog<br>Number |
|--|---|-----------------------|
|  |   |                       |
| Accu-Chek Inform II Base Unit Light (legacy version) | Equipped with charging functionality (discontinued)   | 05920353001           |
| Power Supply   | Power supply (international edition) for<br>legacy Base Unit Light REF 05920353001/<br>legacy Base Unit REF 05060290001 | 04805666001           |
| Power Supply   | Power supply (North America) for<br>legacy Base Unit Light REF 05920353001/<br>legacy Base Unit REF 05060290001         | 05388805001           |
|  |   |                       |
| Accu-Chek Inform II Base Unit<br>Wall Mount          | Wall Mount for Base Unit/Base Unit Light (fits legacy and new versions)   | 05404878001           |
|  |   |                       |
| Accu-Chek Inform II Base Unit Hub                    | Equipped with power and connectivity<br>functionality for the Accu-Chek Inform II<br>Base Unit Light                    | 05888760001           |
| Power Cord   | Required to power the Base Unit Hub<br>(North America)  | 03868133001           |
| Power Cord   | Required to power the Base Unit Hub<br>(United Kingdom)   | 03034933001           |
| Power Cord   | Required to power the Base Unit Hub<br>(international)  | 11800515001           |
|  |   |                       |
| Accu-Chek Inform II Code Key Reader                  |   | 04884671001           |
| Accu-Chek Inform II Accessory Box                    |   | 05060281001           |
| Accu-Chek Inform II Battery Pack                     | Rechargeable battery pack (for meters with<br>older hardware and serial no. below<br>UU14000000)                        | 04882326001           |
| Accu-Chek Inform II RF Card Kit                      | Wi-Fi card replacement (for meters with older hardware and serial no. below UU14000000)                                 | 05112699001           |

# A1 Table of configuration options

The following configuration option is available as of software version 04.02. The following addition has been made on page 185:

| Subject/Attribute                                  | Range   | Default | Device | DMS |
|--|---|---------|--------|-----|
| Measurement Flow                                   |   |         |        |     |
| Isolation Room                                     | 0: disable (select patient ID<br>before strip lot selection)<br>1: enable (select strip lot<br>before patient ID selection) | 0       | N      | Y   |
| Configurable QC Lockout (when switching strip lot) | 0: disabled<br>1: enabled   | 1       | N      | Y   |

The following revisions have been made on page 187:

| Subject/Attribute   | Range   | Default | Device | DMS |
|---|---|---------|--------|-----|
| Operator ID   |   |         |        |     |
| Operator ID validation<br>(Any character allowed [except non-print-<br>able ones, represented as hexadecimal<br>ASCII values by 0x01 - 0x1F and 0x7F]. Via<br>the meter keyboard only A-Z/a-z, 0-9, "."<br>[period], "-" [hyphen] can be entered.)<br>Remark: leading and trailing spaces are<br>truncated. | 0: none<br>1: length<br>2: list<br>3: list & password | 0       | Y      | Y   |

The following revisions have been made on page 188:

| Subject/Attribute  | Range   | Default | Device | DMS |
|--|---|---------|--------|-----|
| Patient ID   |   |         |        |     |
| Patient ID validation<br>(Any character allowed [except non-print-<br>able ones, represented as hexadecimal<br>ASCII values by 0x01 - 0x1F and 0x7F]. Via<br>the meter keyboard only A-Z/a-z, 0-9, "."<br>[period], "-" [hyphen] can be entered.)<br>Remark: leading and trailing spaces are<br>truncated. | 0: none<br>1: length<br>2: list<br>3: list allowing entry if not<br>on list<br>4: length if numeric | 0       | Y      | Y   |

B.1 Option: Wireless network (WLAN)

The following addition has been made on page 201:

Note: For technical reasons, only client certificates in a \*.pem file format are acceptable for EAP-TLS authentication. In a Windows-based network environment, \*.pfx files need to be converted to \*.pem format. It is in the responsibility of the customer / customer's IT department to convert \*.pfx certificates to the required \*.pem format.

### Appendix: Table of ASCII characters

| Dec | Hex | Char                   | Dec | Hex | Char    | Dec | Hex | Char | Dec | Hex | Char  |
|-----|-----|------------------------|-----|-----|---------|-----|-----|------|-----|-----|-------|
| 0   | 0   | [NULL]                 | 32  | 20  | [SPACE] | 64  | 40  | @    | 96  | 60  | •     |
| 1   | 1   | [START OF HEADING]     | 33  | 21  | !       | 65  | 41  | A    | 97  | 61  | а     |
| 2   | 2   | [START OF TEXT]        | 34  | 22  | "       | 66  | 42  | В    | 98  | 62  | b     |
| 3   | 3   | [END OF TEXT]          | 35  | 23  | #       | 67  | 43  | С    | 99  | 63  | С     |
| 4   | 4   | [END OF TRANSMISSION]  | 36  | 24  | \$      | 68  | 44  | D    | 100 | 64  | d     |
| 5   | 5   | [ENQUIRY]              | 37  | 25  | %       | 69  | 45  | E    | 101 | 65  | е     |
| 6   | 6   | [ACKNOWLEDGE]          | 38  | 26  | &       | 70  | 46  | F    | 102 | 66  | f     |
| 7   | 7   | [BELL]                 | 39  | 27  | I.      | 71  | 47  | G    | 103 | 67  | g     |
| 8   | 8   | [BACKSPACE]            | 40  | 28  | (       | 72  | 48  | Н    | 104 | 68  | h     |
| 9   | 9   | [HORIZONTAL TAB]       | 41  | 29  | )       | 73  | 49  | I.   | 105 | 69  | i     |
| 10  | A   | [LINE FEED]            | 42  | 2A  | *       | 74  | 4A  | J    | 106 | 6A  | j     |
| 11  | В   | [VERTICAL TAB]         | 43  | 2B  | +       | 75  | 4B  | K    | 107 | 6B  | k     |
| 12  | С   | [FORM FEED]            | 44  | 2C  | ,       | 76  | 4C  | L    | 108 | 6C  | I     |
| 13  | D   | [CARRIAGE RETURN]      | 45  | 2D  | -       | 77  | 4D  | Μ    | 109 | 6D  | m     |
| 14  | E   | [SHIFT OUT]            | 46  | 2E  |         | 78  | 4E  | N    | 110 | 6E  | n     |
| 15  | F   | [SHIFT IN]             | 47  | 2F  | /       | 79  | 4F  | 0    | 111 | 6F  | 0     |
| 16  | 10  | [DATA LINK EXCAPE]     | 48  | 30  | 0       | 80  | 50  | Р    | 112 | 70  | р     |
| 17  | 11  | [DEVICE CONTROL 1]     | 49  | 31  | 1       | 81  | 51  | Q    | 113 | 71  | q     |
| 18  | 12  | [DEVICE CONTROL 2]     | 50  | 32  | 2       | 82  | 52  | R    | 114 | 72  | r     |
| 19  | 13  | [DEVICE CONTROL 3]     | 51  | 33  | 3       | 83  | 53  | S    | 115 | 73  | S     |
| 20  | 14  | [DEVICE CONTROL 4]     | 52  | 34  | 4       | 84  | 54  | Т    | 116 | 74  | t     |
| 21  | 15  | [NEGATIVE ACKNOWLEDGE] | 53  | 35  | 5       | 85  | 55  | U    | 117 | 75  | u     |
| 22  | 16  | [SYNCHRONOUS IDLE]     | 54  | 36  | 6       | 86  | 56  | V    | 118 | 76  | v     |
| 23  | 17  | [ENG OF TRANS. BLOCK]  | 55  | 37  | 7       | 87  | 57  | W    | 119 | 77  | w     |
| 24  | 18  | [CANCEL]               | 56  | 38  | 8       | 88  | 58  | Х    | 120 | 78  | x     |
| 25  | 19  | [END OF MEDIUM]        | 57  | 39  | 9       | 89  | 59  | Y    | 121 | 79  | у     |
| 26  | 1A  | [SUBSTITUTE]           | 58  | ЗA  | :       | 90  | 5A  | Z    | 122 | 7A  | z     |
| 27  | 1B  | [ESCAPE]               | 59  | ЗB  | ;       | 91  | 5B  | [    | 123 | 7B  | {     |
| 28  | 1C  | [FILE SEPARATOR]       | 60  | зC  | <       | 92  | 5C  | ۸    | 124 | 7C  | 1     |
| 29  | 1D  | [GROUP SEPARATOR]      | 61  | 3D  | =       | 93  | 5D  | ]    | 125 | 7D  | }     |
| 30  | 1E  | [RECORD SEPARATOR]     | 62  | 3E  | >       | 94  | 5E  | ^    | 126 | 7E  | ~     |
| 31  | 1F  | [UNIT SEPARATOR]       | 63  | ЗF  | ?       | 95  | 5F  | _    | 127 | 7F  | [DEL] |

Notes

Notes

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