PSC®

VS1200

Duet

HS1250

Universal-Wedge Quick Start Programming Guide

VS1200/HS1250/Duet Scanners

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Disclaimer

Reasonable measures have been taken to ensure that all information contained in this manual is complete and accurate. However, PSC reserves the right to change any specification at any time without prior notice.

Table of Content

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INTRODUCTION

This section provides an overview of programming the scanner with bar code labels in both the Wedge *Mode*, and the *Scanner Programming Mode*, and provides instruction on how to use this manual.

SECTION 1 – WEDGE PROGRAMMING

This section provides procedures and bar codes needed to program interface parameters for the Wedge Mode.

SECTION 2 – SCANNER PROGRAMMING MODE

This section provides procedures and programming bar codes to change the parameters of your scanner (speaker volume/tone, UPC-A/UPC-E Checkdigits, NSD, and Label Identifier Control).

For information on more programmable features consult PSC'c *Advanced Programming Guide*, P/N: R44-2007, available from your PSC dealer or distributor.

MANUAL OVERVIEW

This manual is divided into two sections. Each section presents one of the two programming features for your scanner – *Wedge Programming*, and *Scanner Programming*.

Wedge Programming – The Wedge programming includes:

- Interface selection (Keyboard or RS-232)
- Keyboard emulation selection
- RS-232 Wedge interface parameters setting
- End of Message Characters
- Activation of the Cloning Mode.

Scanner Programming – The programmable features of the scanner includes:

- Speaker Tone/Volume control
- UPC-A/UPC-E CheckDigit
- NSD and Label Identifier control

The Default Wedge Interface is keyboard communications for PC/AT.

Additional terminal programming support is available from your PSC Dealer or Distributor, or PSC Customer Support.

Additional scanner features such as Symbology control, Motor/Laser Timeouts, and Label Data Editing, are available in PSC *Advanced Programming Guide* (R44-2007), available from your PSC Dealer or Distributor.

To program your scanner for the Wedge or Scanner features, follow the general procedures on the following pages.

How to Use this Manual

Each section in this manual presents a brief description of the programmable feature and the bar code labels required. Many pages contain two bar code labels to conserve resources and reduce the size of the manual.

NOTE

Since the scanner can perform only one programming function at a time, it is important to expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

WEDGE PROGRAMING MODE OVERVIEW

To program your scanner with the Wedge features go to *Section 1 – Wedge Programming*, and follow these procedures:

1. To enable Wedge Programming Mode, scan the **START** bar code on page 14. (The green LED indicator lamp will flash continuously from BRIGHT to DIM, indicating the scanner has entered the Wedge Programming Mode).
2. Scan the desired bar codes labels in the Wedge programming section of this guide, pages 16 through 47. (The scanner will emit a "good read" beep to indicate each successful bar code read).
3. After all desired programming parameters have been entered using the bar codes, exit the Wedge Programming Mode by scanning the **END** bar code on page 14. (The scanner LED then transitions to a steady ON light to indicate the scanner is operational).

Scanner Programming Mode Overview

To change the features on your scanner, go to *Section 2 – Scanner Programming* and scan the desired bar codes, using these procedures:

- Enable the Scanner Programming Mode by scanning the **SWITCH** bar code on page 52. (The LED indicator lamp will flash continuously ON and OFF to indicate the scanner has entered the Scanner Programming Mode).
- Scan the bar code labels on pages 55 through page 70, to enable or disable the desired features. (The VS and HS scanners will beep once at each scan to indicate a "good read", whereas, the Duet will emit multiple beep tones).).
- Scan the SWITCH bar code on page 52 a second time to Exit the Scanner Programming Mode. (The scanner will reset, emit a single power-up beep, and the LED transitions to a steady ON condition).

NOTE

Wedge programming bar code labels use Code 39 symbology (C39). Factory configuration has C39 enabled as a default. If C39 has been disabled in the scanner configuration, you must re-enable C39 in order to program the wedge interface.

Other Features

The wedge interface is able to support multiple functions such as Editing Mode, which allows the bar code data to be altered before sending it to the host terminal. This feature can be set to require certain conditions be present in the bar code data (matching characters), and allows the addition of preambles and/or postambles.

These features are supported in the *Advanced Keyboard Wedge Programming Guide*, (R44-2007), available from your PSC dealer or distributor.

SECTION – 1

WEDGE PROGRAMMING

This section provides instructions to configure your scanner using Wedge Programming.

KEYBOARD-WEDGE PROGRAMMING

INTRODUCTION

In Keyboard-Wedge Mode the scanner is connected between the keyboard and the computer (or terminal). Data is emulated by the scanner as if it was typed on the keyboard.

COMMUNICATION CABLE

Before Keyboard-Wedge programming can begin, a special cable must be installed between the scanner and the computer or Host Terminal. Follow the procedures, below, to install this cable:

1. **Turn off power to your computer or terminal.**
2. Unplug your keyboard cord from your computer or terminal and plug it into the female connector of the short branch of the Y cable. (See Figure 1).

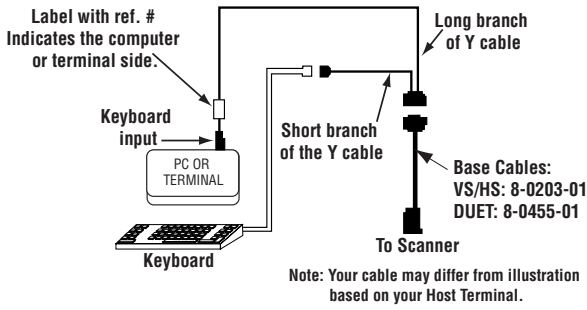


Figure 1. Keyboard-Wedge Cable Connections.

3 Plug the long branch, marked "Terminal," of the Y cable into the keyboard input of your computer or terminal.

4 Plug the 25 pin connector of the Y cable into the 25 pin connection of the base scanner cable.

5 Turn on the computer or the terminal.

6 Turn on the scanner. A power-up beep or a sequence of beeps (depending on the scanner type) will be emitted.

Cloning Mode

This mode can be very useful when a number of scanners have to be programmed with the same parameter values.

It permits a quick duplication of a complete configuration from an operational scanner (**source**) to a scanner which has to be programmed (**target**).

Installation

To install the Cloning Mode feature follow these procedures:

a) Program and test a scanner on your application to set up a scanner-source then disconnect it from the application.

b) Connect the cable of the **target** scanner with the cable of the **source** scanner using cable P/N:6015-0487.

c) Plug a DC power supply adaptor into each scanner (**source** and **target**).

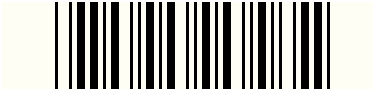
d) Turn on the two scanners.

e) Read this code with the **source** scanner:

TRANSMISSION OF CONFIGURATION

Note: During a series of duplications, there is no need to turn off the **source** and to read the code "transmission of configuration" every time, it will automatically wait for a new enquiry from a target by reading label in step "**f**".

f) Then read this code with the **target** scanner:



RECEPTION OF CONFIGURATION

g) Turn off the **target** scanner, replace it with the next **target** scanner and repeat steps "**b**" thru "**f**".

To exit from Cloning Mode, turn the **source** scanner off and on.

WEDGE PROGRAMMING MODE

Wedge Programming Mode is initiated by scanning the **START** label on page 14, and terminated using the **END** label found on the same page. When in Wedge Programming Mode, the scanner indicator lamp will flash from dim to bright. If you make a mistake while in this mode, scan the **END** label, then the **DEFAULT** label on page 15 and re-attempt to configure the wedge.

NOTE

Scanning DEFAULT will reset any previous changes made to wedge configuration.

Additional PC/Terminal I.D.s may be obtained by calling PSC Customer Support at: 1-800-547-2507

WEDGE COMMUNICATION MODE

TO ENTER WEDGE PROGRAMMING MODE

SCAN IN THE FOLLOWING LABEL

START

TO EXIT WEDGE PROGRAMMING MODE

SCAN IN THE FOLLOWING LABEL

END

Return to Factory Settings

Scan this label to return the scanner to wedge factory settings.

At any time, the values of all the parameters can be returned to the default setting by scanning this code:

Default Configuration

CAUTION

This code returns all wedge parameters to their default value.

NOTE: Scanning this label does NOT affect Scanner Programming.

KEYBOARD-WEDGE

The default communication mode (factory settings) is PC/AT. Use the codes on these pages (16 to 21) to activate the Keyboard-Wedge Mode and select the I.D. corresponding to your computer or terminal.

Keyboard-Wedge Mode Activated

The following is a list of terminal settings to use when connecting to the most common terminal types:

PC or Terminal	Keyboard I.D.
PC XT	10
PC AT, PS2	11 (Default)
MAC	25

KEYBOARD-WEDGE

Enter the I.D. corresponding to your computer or terminal using this bar code numeric pad.

1

2

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

3

4

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

5

6

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

7

8

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

9

0

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

Use the following pages to adjust the parameters of the keyboard-wedge communication.

END OF MESSAGE CHARACTER

One of the following characters can be systematically emulated by the scanner as the end of message character:

RETURN

This is a default setting.

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

END OF MESSAGE CHARACTER

ENTER

CR/LF

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

END OF MESSAGE CHARACTER

FIELD ADVANCE

FIELD EXIT

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

END OF MESSAGE CHARACTER

TAB+

LF

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

END OF MESSAGE CHARACTER

No Character

KEYBOARD-WEDGE

UPPER/LOWER CASE OPTIONS

UPPER CASE/CAPS –ENABLE

This is a default setting.

LOWER CASE/SMALL– ENABLE

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

KEYBOARD-WEDGE

TYPES OF NUMERIC CHARACTERS

This function allows the emulation of the numeric characters of the NUMERIC PAD or those located on top of the keyboard.

Use this function if trouble occurs with upper/lower case keyboard modes.

NUMERICS LOCATED OVER THE ALPHANUMERIC PAD
This is a default setting.

KEYBOARD-WEDGE

TYPES OF NUMERIC CHARACTERS

NUMERIC PAD

Note: If the option "numeric pad" is chosen, the numeric pad of the keyboard must be also turned on (or locked) for correct operation. [NUM LOCK]

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RS-232 INTERFACE CONFIGURATION

This following pages provides instructions to configure the wedge for RS-232 Interface communications options.

This interface will connect to a PC or host which supports an RS-232 port.

RS-232 Interface Configuration

The programming bar codes in this section pertain only to POS terminals with an RS-232 communication interface. In order for the POS terminal and scanner to communicate, the scanner's configuration must match the communication settings of the POS terminal. The scanner's factory default configuration has been preset to 9600, 8, N, 1.

RS-232 Interface communication options are:

- Baud Rate
- Parity
- Data Bits
- Stop Bits
- End of Message Character
- Timeout Between Characters
- ACK/NAK Protocol
- Xon/Xoff Protocol

NOTE: The RS-232 interface must first be selected on page 34 before you can set the RS-232 options in this section.

RS-232 Protocols

Xon/Xoff – Software flow control. The Host System can control the data flow coming from the scanner. Xon (11hex) – host ready to receive data, Xoff (13 hex) – host is busy.

ACK/NAK – Software flow control. The scanner waits for acknowledgement from the host. Ack (06 hex) – host received data correctly. Nak (15 hex) – scanner resends data when NAK is received.

RS-232 ACTIVATION

Scan this bar code to activate (enable) the RS-232 feature.

RS-232 – Enable

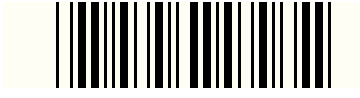
RS-232: Baud Rate = 1200

Use this bar code to set the RS-232 baud rate to 1200.

Baud Rate: 1200

RS-232: Baud Rate = 2400

Use this bar code to set the RS-232 baud rate to 2400.



Baud Rate: 2400

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

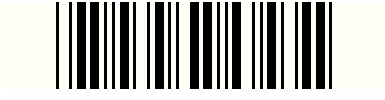
RS-232: Baud Rate = 4800

Use this bar code to set the RS-232 baud rate to 4800.

Baud Rate: 4800

RS-232: Baud Rate = 9600

Use this bar code to set the RS-232 baud rate to 9600.



Baud Rate: 9600

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: Baud Rate = 19200

Use this bar code to set the RS-232 baud rate to 19200.

Baud Rate: 19200

RS-232: Baud Rate = 38400

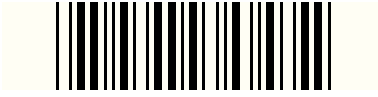
Use this bar code to set the RS-232 baud rate to 38400.

Baud Rate: 38400

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: Parity = Odd

Use this bar code to set parity to Odd.



Parity: Odd

RS-232: Parity = Mark

Use this bar code to set parity to Mark.

Parity: Mark

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: Parity = Space

Use this label to set parity to Space.

Parity: Space

RS-232: Parity = Even

Use this label to set parity to Space.

Parity: Even

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: DATA BITS = 7

Use this bar code to set the RS-232 data format to seven bits.

Data Bits: 7

RS-232: DATA BITS = 8

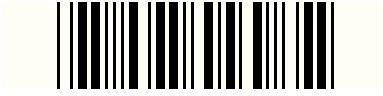
Use this bar code to set the RS-232 data format to eight data bits.

Data Bits: 8

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: Stop Bits = 1

Use this bar code to set the number of stop bits to one.



Stop Bits: 1

RS-232: Stop Bits = 2

Use this bar code to set the number of stop bits to two.

Stop Bits: 2

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: End of Message Character

Use this bar code to set the End of Message Character to NONE

NONE

RS-232: End of Message Character

Use this bar code to set the End of Message Character to SUITE (MINITEL).

SUITE (MINITEL)

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: End of Message Character

Use this bar code to set the End of Message Character to CR.

CR

RS-232: End of Message Character

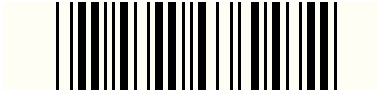
Use this bar code to set the End of Message Character to LF.

LF

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: End of Message Character

Use this bar code to set the End of Message Character to HT.



HT

RS-232: End of Message Character

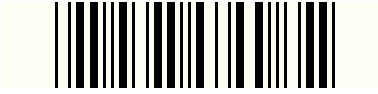
Use this bar code to set the End of Message Character to EOT.

EOT

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: End of Message Character

Use this bar code to set the End of Message Character to STX...ETX.



STX…ETX

RS-232: End of Message Character

Use this bar code to set the End of Message Character to CR/LF.

CR/LF

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: ACK/NAK Protocol—Enable

Scan this bar code to enable the ACK/NAK feature.

ACK/NAK – Enable

RS-232: ACK/NAK Protocol —Disable

Scan this bar code to disable the ACK/NAK feature.

ACK/NAK – Disable

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

RS-232: Xon/Xoff Protocol — Enable

Use this bar code to enable Xon/Xoff feature.

Xon/Xoff – Enabled

RS-232: Xon/Xoff Protocol — Disable

Use this bar code to disable Xon/Xoff feature.

Xon/Xoff – Disable

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

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SECTION – 2
SCANNER PROGRAMMING MODE

This section provides procedures and bar code labels to configure the parameters (speaker volume/tone, UPC-A/UPC-E CheckDigit, NSD and Label Identifier Control) of your scanner.

SCANNER PROGRAMMING MODE

INTRODUCTION

The remainder of this programming guide contains programming bar codes for programming the parameters of your scanners.

PRE-PROGRAMMING

Before programming your scanner:

1. **Turn off power to your computer or terminal.**
2. Unplug your keyboard cord from your computer or terminal and plug it into the female connector of the short branch of the Y cable. (See Figure 1, page 9).
3 Plug the long branch, marked "Terminal," of the Y cable into the keyboard input of your computer or terminal.
4 Plug the 25 pin connector of the Y cable into the 25 pin connection of the base scanner cable.

5 Turn on the computer or the terminal.

6 Turn on the scanner or plug scanner into power supply. A power-up beep or a sequence of beeps (depending on the scanner type) will be emitted.

PROGRAMMING YOUR SCANNER

OVERVIEW

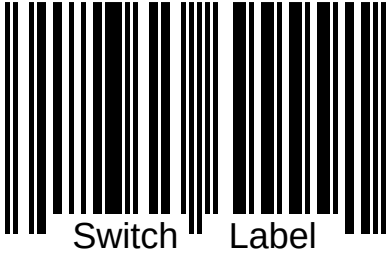
To change the parameters of your scanner scan the desired bar codes using these general procedures:

- Enable the Scanner Programming Mode by scanning the **SWITCH** bar code on page 52. (The LED indicator lamp will flash continuously ON and OFF to indicate the scanner has entered the Scanner Programming Mode).
- Scan the bar code labels on pages 55 through page 70, to enable or disable the desired features. (The VS/HS scanners will beep once at each scan to indicate a "good read." The Duet scanner will emit a multiple beep tones).

- When you have finished programming the desired parameters, scan the **SWITCH** bar code (below) a second time to Exit the Scanner Programming Mode and enter the operational mode. (The scanner will reset, emit a single power-up beep, and the LED transitions to a steady DIM condition).

QUICK START SCANNER PROGRAMMING MODE

Scan the **Switch** label below to start the Scanner Programming Mode.



RETURN TO FACTORY SETTINGS

Scan this label to return the scanner to the Factory setting.

NOTE

Any settings you have selected in a previous programming session will be lost.

Scanning this label does NOT affect Wedge Programming settings.

Additional Features

For information on more programmable features consult the *Advance Programming Guide,* PN: R44-2007, available from your PSC dealer or distributor.

PROGRAMMABLE SPEAKER FEATURES

The speaker has three programmable features:

- **Good Read Tone Length** can be adjusted to one of three different settings.
- Good read **Volume** can be set to one of three levels.
- **Speaker Tone** (pitch/frequency) can be programmed to sound at one of three settings.

SPEAKER VOLUME = LOW

Use this bar code to set the speaker volume to low.

SPEAKER VOLUME = MEDIUM

Use this bar code to set the speaker volume to medium.

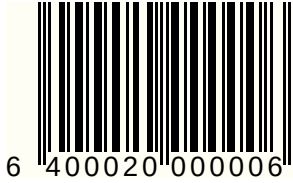
SPEAKER VOLUME = HIGH

Use this bar code to set the speaker volume to high.

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

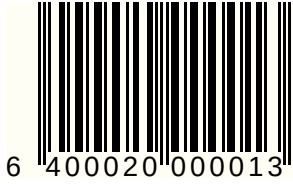
Speaker Tone = Low

Use this bar code to set the speaker tone to low.



Speaker Tone = Medium

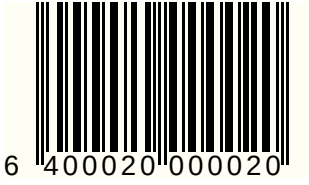
Use this bar code to set the speaker tone to medium.



Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

Speaker Tone = High

Use this bar code to set the speaker tone to high.



Speaker Tone = High

LABEL TRANSMIT FORMAT CONFIGURATION ITEMS

If you need to send information in addition to label data, the scanner can be configured to transmit symbology specific identifier characters (Label I.D.).

Label transmit options are:

- Transmit Label I.D. as Prefix (Preamble)
- Transmit Label I.D. as Suffix (Postamble)
- Disable Label I.D.

SETTING LABEL I.D.

Label identifiers consist of one or two ASCII characters that can precede or follow barcode label data as it is transmitted to the host. The host uses these characters as a means of distinguishing between symbologies.

The established industry standards used are symbology-specific label identifiers, and are listed in the table below.

UPC-A	'A'	EAN-8 (5 Add-on)	'FF'
UPC-E	'E'	EAN-8 (8 Add-on)	'FF'
EAN-8	'FF'	EAN-13 (2 add-on)	'F'
EAN-13	'F'	EAN-13 (5 Add-on)	'F'
UPC-A (2 add-on)	'A'	EAN-13 (8 Add-on)	'F'
UPC-A (5 Add-on)	'A'	Code 39	'*'
UPC-A (8 Add-on)	'A'	Codabar	'%'
UPC-E (2 add-on)	'E'	Interleaved.2 of 5	'i'
UPC-E (5 Add-on)	'E'	Code 93	'&'
UPC-E (8 Add-on)	'E'	Code 128	'#'
EAN-8 (2 add-on)	'FF'	MSI/Plessey	'@'

NOTE

Enabling Label I.D's to be transmitted will not allow programming of the Wedge. You must disable Label I.D. (If previously enabled) before programming the Wedge Interface.

TRANSMIT LABEL I.D. AS PREFIX

Scan this bar code to transmit the label I.D. as a prefix.

TRANSMIT LABEL I.D. AS SUFFIX

Scan this bar code to transmit the label I.D. as a suffix.

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

TRANSMIT LABEL I.D. — DISABLE

(Don't Send)

Scan this bar code to disable transmission of the label I.D. (prefix and/or suffix).

UPC Options

UPC symbology options, **Check Digit Transmission**, and **Number System Digit Transmission**, are contained on the following several pages.

To use options available in this section:

1. Place the scanner in Programming Mode (see *Programming Your Scanner* at the front of this Section).
2. Scan the bar codes in this section to modify the desired UPC options.
3. After programming all the chosen features, exit Programming Mode (reference *Programming Your Scanner* at the front of this Section).

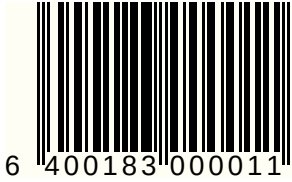
UPC/EAN Check Digit Transmission

The following pages contain the programming bar codes for enabling and disabling the transmission of UPC and EAN check digits.

- UPC-A Check Digit Transmission
- UPC-E Check Digit Transmission
- EAN-8 Check Digit Transmission
- EAN-13 Check Digit Transmission
- UPC-A Number System Digit (NSD) Transmission
- UPC-E Number System Digit (NSD) Transmission

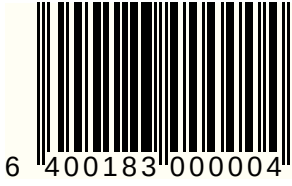
UPC-A Check Digit Transmission — Enable

Use this bar code to enable sending the UPC-A check digit to the host.



UPC-A Check Digit Transmission — Disable

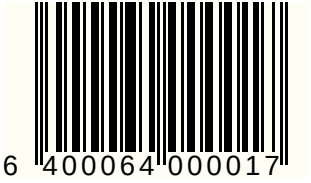
Use this bar code to disable sending the UPC-A check digit to the host.



Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

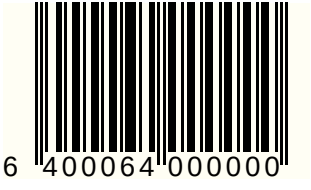
UPC-E Check Digit Transmission — Enable

Use this bar code to enable sending the UPC-E check digit to the host.



UPC-E Check Digit Transmission — Disable

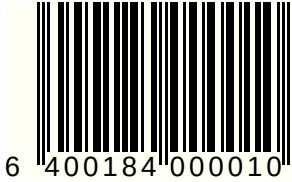
Use this bar code to disable sending the UPC-E check digit to the host.



Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

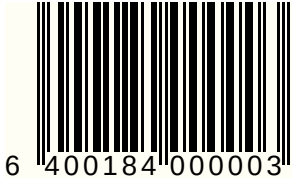
EAN-8 Check Digit Transmission — Enable

Use this bar code to enable sending the EAN-8 check digit to the host.



EAN-8 Check Digit Transmission — Disable

Use this bar code to disable sending the EAN-8 check digit to the host.



Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

EAN-13 Check Digit Transmission — Enable

Use this bar code to enable sending the EAN-13 check digit to the host.

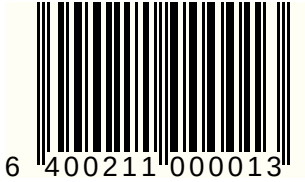
EAN-13 Check Digit Transmission — Disable

Use this bar code to disable sending the EAN-13 check digit to the host.

Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

UPC-A Number System Digit Transmission — Enable

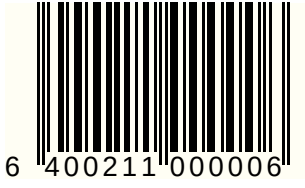
Use this bar code to enable sending the UPC-A Number System Digit (NSD) to the host.



UPC-A Number System Digit Transmission — Disable

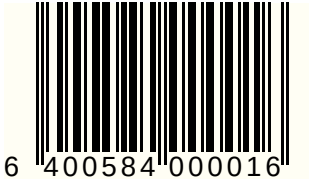
Use this bar code to disable sending the UPC-A Number System Digit (NSD) to the host.

NOTE: Disabling this feature may cause potential data duplication.



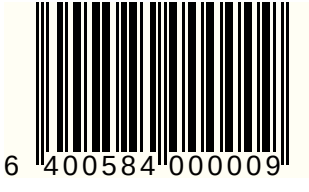
UPC-E Number System Digit Transmission — Enable

Use this bar code to enable sending the UPC-E Number System Digit (NSD) to the host.



UPC-A Number System Digit Transmission — Disable

Use this bar code to disable sending the UPC-E Number System Digit (NSD) to the host.



Note: Expose only the bar code intended for programming. Cover the other bar code with and opaque object, or your hand.

APPENDIX

DISPLAY FIRMWARE LEVEL – ENABLE

Scan the bar code below to enable Display Wedge Firmware Level.

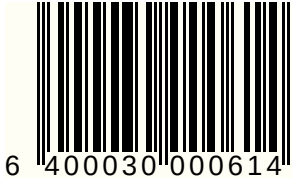
Display Firmware Enable

UNIVERSAL WEDGE – ENABLE

(DUET Only)

Scan the bar code below to enable Wedge Interface.

Note: This label is only required for units which have been upgraded to support the Universal Wedge Interface.



Universal Wedge Enable

NOTES

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