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**PSC**<sup>®</sup>



***VS1200***



***VS1000***

**VS/HS**  
**Keyboard Wedge**  
**Quick Start**

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### **Disclaimer**

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

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# Table of Contents

Overview .....	1
Programming .....	3
Enter Wedge Programming Mode .....	4
Exit Wedge Programming Mode .....	5
Return to Factory Settings .....	6
Keyboard Wedge .....	7
Communication Cable .....	7
Installation .....	8
End of Message Character .....	17
Types of Numeric Characters .....	23
Timeout Between Characters .....	25
“WYSE” Timeout.....	29



**Blank Page**

### Overview

There are two levels of programming for the VS/HS scanner with keyboard wedge. The first level is configuration of the VS/HS scanner. Scanner programming allows you to change scanner features such as speaker volume, bar code symbologies, and laser and motor timeouts. Three programming kits are available from your PSC dealer or distributor:

R44-1140 *VS1000 Programming Kit*

R44-1340 *VS1200/HS1250 Programming Kit*

R44-1740 *DUET Programming Kit*

A second level of programming involves configuration of the keyboard wedge interface. The wedge will default to RS-232 communications and must be configured to enable the keyboard wedge interface.

Using the *VS/HS Keyboard Wedge Quick Start*, configure the wedge to emulate the terminal type you are connecting to. (Please refer to the *Connectivity Guide*, R44-1040, for a list of supported terminals available from your PSC dealer or distributor.)

## The Communication Modes

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### NOTE

Wedge programming 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 reenable C39 in order to program the wedge interface.

The wedge interface is also able to support multiple functions such as Editing Mode, which allows flexibility of label data before it's sent to the host. This allows the matching of characters, and addition of preambles and/or postambles. These features are supported in the *VS/HS Keyboard Wedge Programming Guide* (R44-1343) available from your PSC dealer or distributor.

### Programming

Wedge Programming Mode is initiated by scanning the START label on the following page, and terminated using the END label on the second page following. 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 DEFAULT label on page 6 and re-attempt to configure the wedge.



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

#### NOTE

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
MAC	25

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

## The Communication Modes

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### Enter Wedge Programming Mode

To enter Wedge  
Programming Mode  
scan the following label:



**START**

## The Communication Modes

---

### Exit Wedge Programming Mode

To exit Wedge  
Programming Mode  
scan the following label:



**END**

## The Communication Modes

---

### Return to Factory Settings

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



#### DEFAULT CONFIGURATION

At any time, the default values of all the parameters can be set by scanning this code.



**CAUTION**

This code will return all parameters to their default value.

### Keyboard Wedge

In this 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.

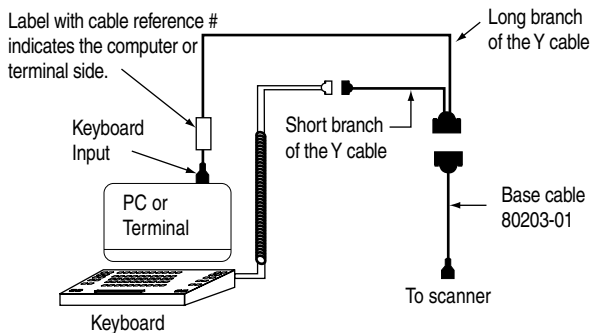
### Communication Cable

A base cable, 8-0203-01, is delivered with each scanner. Refer to the *Connectivity Guide*, R44-1040, for the required “Y” cable number. The “Y” cable number appears on a label placed on the long branch of the “Y” cable.

# The Communication Modes

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## Installation



1. Turn off 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.
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.

## The Communication Modes

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5. Turn on the computer or the terminal.
6. Turn on the scanner. A single beep will be emitted.



### NOTE

Some Keyboard Wedge connections require an external power supply adaptor (Refer to the *Connectivity Guide*, R44-2039). The I.Ds are marked with the sign\* in the list of connections.

## The Communication Modes

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### KEYBOARD WEDGE

The default communication mode (factory settings) is RS-232. Use the bar codes on these pages (4 to 9) to activate the Keyboard Wedge Mode and the bar codes on pages 10 through 15 to select the I.D. corresponding to your computer or terminal:



**KEYBOARD WEDGE MODE ACTIVATED**

Consult the *Connectivity Guide* (R44-1040) and enter the I.D corresponding to your computer or terminal using this bar code pad.

## KEYBOARD WEDGE



1



2

### KEYBOARD WEDGE



3



4

## KEYBOARD WEDGE



5



6

### KEYBOARD WEDGE



7



8

## KEYBOARD WEDGE



9



0

### KEYBOARD WEDGE

Use the following pages to adjust the parameters of the Keyboard Wedge communication.

### KEYBOARD WEDGE

#### End of Message Character

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



**RETURN**

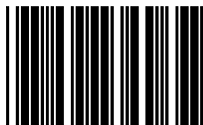
This is a default setting.

### KEYBOARD WEDGE

End of Message Character



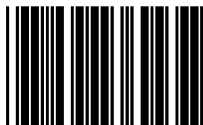
**ENTER**



**CR/LF; FEED; SEND**

### KEYBOARD WEDGE

End of Message Character



**FIELD ADVANCE**



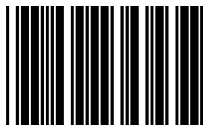
**FIELD EXIT**

### KEYBOARD WEDGE

End of Message Character



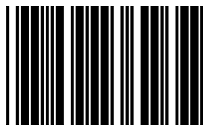
TAB+



LF

### KEYBOARD WEDGE

End of Message Character



NO CHARACTER

### KEYBOARD WEDGE

#### Upper/lower Case Options



#### UPPER CASE/SMALL

This is a default setting.



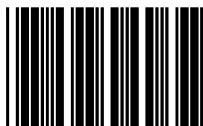
#### LOWER CASE/SMALL

### 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]

### KEYBOARD WEDGE

#### Timeout Between Characters

The insertion of a timeout between each character can sometimes avoid eventual errors due to a fast transmission speed (specially on PS/2 or when DOS and BIOS are very busy).



**0 MS**

**This is a default setting.**

### KEYBOARD WEDGE

#### Timeout Between Characters



5 MS



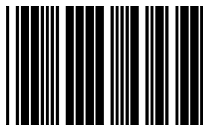
10 MS

## KEYBOARD WEDGE

Timeout Between Characters



20 MS



50 MS

### KEYBOARD WEDGE

Timeout Between Characters



100 ms

### KEYBOARD WEDGE

#### “WYSE” Timeout

Some Keyboard Wedge connections can drop characters when using the WY 160 cable on terminals not included on the connections list. This is especially true when a string of identical characters appears in a code.

Use this function to insert a timeout between characters:

#### Action 1

Use the following procedure to enter numeric pad bar codes that establish the timeout value:

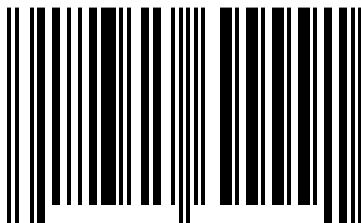
0: minimum timeout

49: maximum timeout

### KEYBOARD WEDGE

#### “WYSE” Timeout

1. Scan the Switch Label to enter programming mode. It is used to enter and save changes in the programming mode.

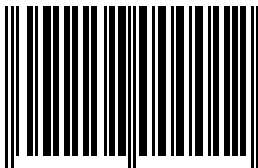


SWITCH LABEL

### KEYBOARD WEDGE

#### “WYSE” Timeout

2. Scan the following label.



**SET CODE 39 MIN LENGTH TO 1**

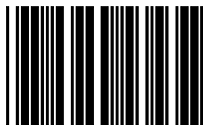
3. Scan the Switch Label to save changes in the Programming mode.

### KEYBOARD WEDGE

#### “WYSE” Timeout

##### Action 2

Scan the following label:

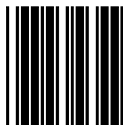


#### ACCESS TO TIMEOUT

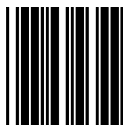
Use pages 27- 31 to set timeout value.

## KEYBOARD WEDGE

“WYSE” Timeout



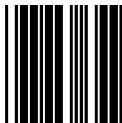
1



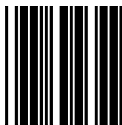
2

### KEYBOARD WEDGE

“WYSE” Timeout



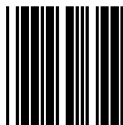
3



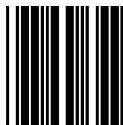
4

## KEYBOARD WEDGE

“WYSE” Timeout



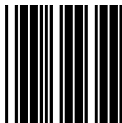
5



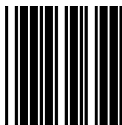
6

### KEYBOARD WEDGE

“WYSE” Timeout



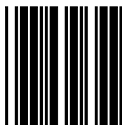
7



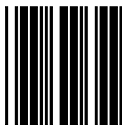
8

## KEYBOARD WEDGE

“WYSE” Timeout



9



0

### KEYBOARD WEDGE

“WYSE” Timeout

#### Action 3

Scan the following label:



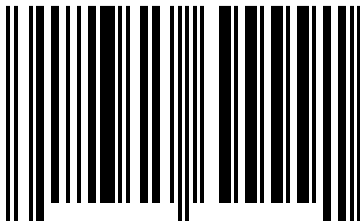
**VALIDATION**

### KEYBOARD WEDGE

#### “WYSE” Timeout

##### Action 4

1. Scan the Switch Label to enter Programming Mode.

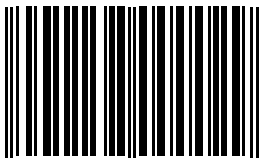


SWITCH LABEL

### KEYBOARD WEDGE

#### “WYSE” Timeout

2. Scan the following label:



**SET CODE 39 MIN LENGTH TO 2**

3. Scan the Switch Label again to save changes in the Programming Mode.

# NOTES

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