

SP742 HIGH PERFORMACE IMPACT PRINTER

Subject: SP742 Buzzer Support Products Covered in This Application Note: SP742 Date: July 16, 2007 Document #: 071607

SP742 and Buzzer Support

The SP700 Impact printer has two modes of buzzer support.

Mode 1: Buzz on Error

This is a NEW feature that will make the external buzzer buzz on a regular basis (changeable by the memory switch utility from the CD supplied with the printer) if one of the following three (3) errors should occur: mechanical error, cutter error or paper out.

The printer will continue the cycle of "buzz, pause, and buzz" until the cover is opened. The utility shipped with the SP700 will allow you to configure the buzz to your preference.

All SP742D series printers shipped will be configured with this option enabled as per below. All the user has to do is physically install the buzzer.

🜠 Star SP700 Configuration Util	ity	
File(F) Help(H)		
Printer Settings Memory SW Settings NVLogo Print Tests Ethernet I/F Setup	Memory SW Settings Model Name : Port : Emulation : SP742 TCP/IP:192.168.1.164 Star Line Mode	Configure Port
Application Settings JavaPOS		
Virtual Port Emulator	General Characters Tickets Communication(TCP/IP)	load Settings
	Print Width: 210 Dots (63mm)	
	<cr> Command Functions: Ignored</cr>	Write Settings
	On Error, Buzzer Device: external buzzer	
	external buzzer destination: external buzzer1	
	external buzzer pulse width: 100ms	
star		Close



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To disable the "buzz on error," set the memory switch settings as follows:

🔀 Star SP700 Configuration Ut	ility	
File(F) Help(H)		
Printer Settings Memory SW Settings NVLogo Print Tests Ethernet I/F Setup	Memory SW Settings Model Name : Port : Emulation :	
Emernet I/F Setup Application Settings JavaPOS Virtual Port Emulator	SP742 TCP/IP:192.168.1.164 Star Line Mode General Characters Tickets Communication(TCP/IP) Print Width: 210 Dots (63mm) <cr> Command Functions: Ignored On Error, Buzzer Device: Buzzer of Print Head</cr>	Configure Port Ioad Settings Write Settings
star		Close

Remember to write the settings when choices have been selected.



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Mode 2: Buzz on Cut

This feature has been available since the SP2000. When the printer cuts the paper the external buzzer buzzes. This feature is available on the SP742 but it is not enabled as standard.

There are two (2) ways to configure "Buzz on Cut" depending on the type of POS system and how the software sends data to the printer.

1. Direct to port.

NOTE: Your printer MUST have at least version 1.2 of the firmware installed to use the firmware based buzz on cut mode.

If you are using the "direct to port" method or a NON-Windows based POS system, the user will have to setup the "buzz on cut" inside the printer settings. To do this, use the MSDOS prompt to copy the binary file 700cut.bin to the printer.

For a parallel printer the command would be

copy 700cut.bin lpt1:

For a serial printer, configure the speed of the serial port first and then copy the file to the serial port.

The example below is assuming that the printer is connected to com3: (in most cases the printer will be connected to com1: and you will need to adjust the command accordingly.)

Mode com1:9600,n,8,1 Copy 700cut.bin com1:

C:\WINDOWS\system3	2\cmd.exe	- 🗆 🗙
C:\star\lab>mode com3:9600,n,8,1 Status for device COM3:		
Baud: Parity: Data Bits: Stop Bits: Timeout: XON/XOFF: CTS handshaking: DSR handshaking: DSR sensitivity: DTR circuit: RTS circuit:	9600 None 8 1 OFF OFF OFF OFF OFF ON ON	
C:\star\lab>copy sta 1 file(s) co C:\star\lab>	lfc.bin com3: pied.	
		-

To test the printer, simply send a print job from the application. Remember, the function is "buzz on cut," so provided the application cuts the paper, expect it to buzz. (starlfc.bin is included in this zip file and can be copied to the printer as a test file)





If the application supports Windows® printing, but only via the generic text driver, then you will also need to use this method, however Star strongly recommends that in this case, you install the correct driver and use the next method.

2. Windows Driver

If the application supports Windows® driver printing and the user has installed the SP700 printer driver, then the user is able to take advantage of the additional features of the buzzer support. All buzzer functions are supported by the driver.

💩 SP 700 cutter Properties 🛛 🔹 💽	💺 SP 700 cutter Properties 🛛 💽 🗙
Color Management Security Device Settings SP700 Config	General Sharing Ports Advanced
General Sharing Ports Advanced	Color Management Security Device Settings SP700 Config
SP700 cutter	Paper Type: <u>Receipt</u> Black Mark Detect at Power On: <u>Disable</u>
Location:	Page Cut Type: <u>No Cut</u>
	Document Cut Type: <u>Cut</u>
Comment:	Bidirectional Printing: <u>Bidirectional</u>
	Device and Unit Type: <u>Buzzer</u>
Model: Star SP700 Cutter (SP742)	Devictory Unit 1: <u>Document Bottom</u>
Feshires	Deserver and the server of the
	Page Top Logo: <u>Not Logo Printed</u>
Color: Yes Paper available:	Havid Maust (answer suisting) Dischla
Double-sided: No A4 🔬	Purzer 1. On Timer 500 millionanda
Staple: No	Buzzer 1 - Off Time: <u>300 milliseconds</u>
Constant la la companya de la constant la const	Buzzer 1 - On Time: <u>20 miniseconas</u>
Speed: Unknown	Buzzer 2 - Op Timer 20 millingsonde
Maximum resolution: 170 dpi 📃 🔛	Buzzer 2 - Off Time: <u>20 milliseconds</u>
	Buzzer 2 - On Time: <u>20 miniseconds</u>
Printing Preferences Print Text Page	Cash Drawer 1 - Pulse Width: 200 milliseropds
OK Cancel Apply	OK Cancel Apply

Notes:

To use these features the application software must be using the printer driver. If the software is using a raw print method to simply spool a pre-formatted job then the settings will be ignored and the user will have to enable the buzzer using the **direct to port** method.

If both methods are enabled, there will be two (2) buzzes at the end of each document. In this case, either disable the "buzz on cut" function inside the driver, follow the instructions for "direct to port" or copy **buzzoff.bin** to the printer.

Advanced setting:

Installing the printer driver multiple times creates virtual printers with different buzzer tones.

For example, a Pizza Printer could be configured with a short sharp tone and a Kitchen Printer configured with a long drawn out buzz, on the same printer. Please contact the Star Micronics tech support department for guidance and instructions on this advanced feature.