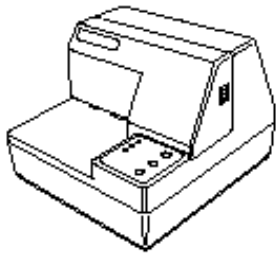


Lucid-Star SP298 Slip Printer

**Ian Fellows
LIMITED**



Connection –

Install printer cable on Lucid – use screened cable with 25 Way Male D connector. Terminate screen at Lucid gland/case entry but do not connect at printer.

Lucid	Printer (25 Way D Connector)
PRN TX (transmit)	Pin 3
PRN BUSY (busy)	Pin 20
GND (ground)	Pin 7

SP298 Printer Configuration –

9600 Baud is not recommended for Lucid and SP298.

Set Printer to 2400 (to suit Lucid default) instead of changing the Lucid.

Beware error in SP298 manual. Correct DIP Switch settings are:

Check Test print, it confirms switch settings and Baud rate.

	SW1	SW2
1200	off	off
2400	on	off
4800	off	on
9600	on	on

Lucid Configuration –

PR_CFG menu, **CrLF** setting should be ON = 1 and Baud rate set to match above

Operation can be enhanced further by making use of control characters.

PR_FOR menu items **CtrlF CtrlL CtrlM** provide facilities for placing a limited number of control characters in the print out.

It is also possible to use the Header/Product Text Strings to add control characters, provided they are not required for text/descriptions. This can require some understanding printer control characters, hex notation and possibly, the Lucid special Hex Edit Mode.

Useful Printer Control Sequences (Hex notation)

Enable Paper Detectors	1B 63 34 30
Set to eject in reverse direction after print	1B 46 31
Set double width print	1B 21 20
Set normal width print	1B 21 02
To form feed and release after print out	0C 1B 71

Note If double width printing is applied to a whole line, then the line will become too wide. For this reason **CtrlL** & **CtrlM** can be used to turn double width on only for the data element of a line. Left hand alignment will not be maintained (See Example over)

Example –

- Uses Header Text String to apply control characters**
- Sets paper detectors on and sets for reverse eject**
- Applies double width print to the data element**
- Ejects and releases ticket after print**

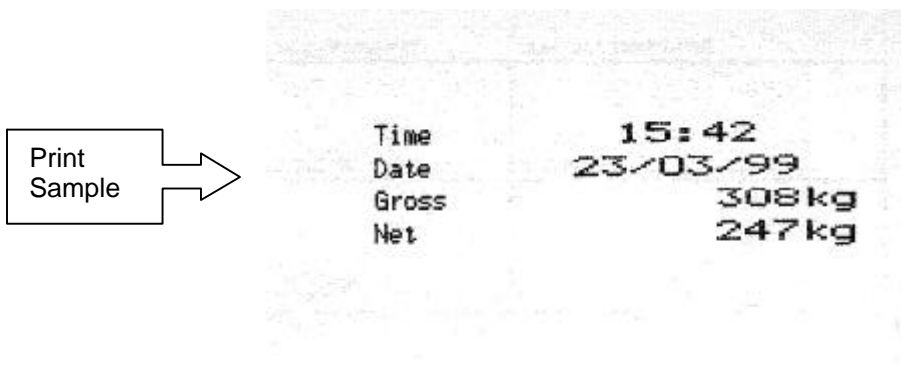
Set up Text Strings for 'Code 99' (Remember to change back to Code 01 afterward!)

ST1A = <ESC> c 4 0 <ESC> F 1 [> **c.40> F 1**]
ST1B = <Terminator> [**ÿ**]

<ESC> is the character represented by >
<Terminator> is the character represented by ÿ
c must be lower case, ie **C**.
F must be upper case, ie **F**
0 is numeric zero.

Include the Header text string as the first item (type B) in the Print file, for example

PFOR = B548900	ST1A/B + Time + Date + Gross + Net
Pcr = 0111100	Sets Carriage Returns
Form = 99	Sets CTRF string to be sent every print (From NO6.00E)
CTRF to 0 0C 1B 71	Command to eject and release after print
Line to 1	Sets CTRL to precede each line and CTRM in midline
CTRL to 0 1B 21 02	Sets Normal Print at start of each line
CTLm to 0 1B 21 20	Sets Double Width Print in the middle of each line



Other Useful Printer Features (see printer manual for more detail)

Self test - Load paper, turn off then turn on with RELEASE button held down
Prints Test Print include detail of current settings

Hexadecimal Dump Mode - Load paper, turn off then turn on with FORWARD button held down
Printer enters dump mode. This Prints all characters as received

If technical support required please have these Prints at hand.

For Weighbridge Applications consult System 2X – SP298 Application Notes