INSTALLATION & OPERATION MANUAL

SP834
Portable Printer System

DOC#: MN-834-A

LIQUID CONTROLS SPONSLER, INC.
FLOW MEASURING DEVICES AND CONTROLS
A Unit of the IDEX Corporation
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IDEX LIQUID CONTROLS GROUP

POWER SWITCH & AUTO POWER OFF

This switch turns the printer on and off. If the printer is left on with no activity (no motion of the print head) for more than 1.5 minutes, the printer will automatically turn off. To turn the printer back on, turn off the power switch, then turn the power switch back on.

STATUS LED – when operating

The STATUS LED located on the front panel of the printer indicates the following:

OPERATING = RED
CHARGING = GREEN

OPERATING

When the power is turned on, and the printer is not receiving a signal from the T675, the RED STATUS LED will illuminate steadily. When the printer is receiving a signal from the T675, the RED STATUS LED will flash rapidly.

When the printer is NOT receiving a signal from the T675 and low battery power is detected, the RED STATUS LED will flash once per second and the built-in beeper will beep at the same rate. To reset the low battery condition, turn the printer off and back on. This low power indicator is useful when troubleshooting printers that suddenly stop printing for no 'apparent' reason.
If the printer detects an internal problem during power-on, or if a printer mechanism fails during operation, the RED STATUS LED will slowly flash indicating an error code. The error code is displayed by the RED STATUS LED blinking a certain number of times, and after a 2-second pause, the blinking resumes. Count the number of times to determine the error code. The error codes are:

01 = LOW BATTERY POWER DETECTED
02 = PRINT HEAD CANNOT FIND HOME POSITION
03 = CANNOT FIND TOP-OF-FORM MARK
04 = PAPER OUT CONDITION DETECTED
05 = BAD CPU RAM OR EPROM
06 = BAD EXTERNAL RAM
07 = BAD REAL-TIME CLOCK
08 = STUCK KEYPAD
09 = FLASH ERASE ERROR
10 = FLASH PROGRAMMING ERROR

CHARGING

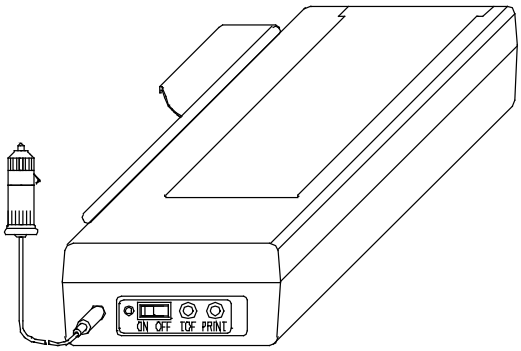
When charging power is first connected and if the battery is excessively discharged, the unit will trickle charge the battery for several minutes until the cell voltage reaches approximately 0.9V. While this initial trickle charge takes place the GREEN STATUS LED will flash every 1.5 seconds. Once the trickle charge has raised the cell voltage enough, fast charge will automatically begin and the GREEN STATUS LED will be illuminated steadily.

When the battery is fully charged, the GREEN STATUS LED will flash 2 times per second. If the battery is completely charged and the printer is again connected for charging, depending upon the battery voltage the GREEN STATUS LED will turn on for approx. 1 second 1-2 seconds after the unit is first connected. The LED then turns off for several minutes and then begins flashing rapidly 2 times per second just as it does when fast charging is complete.

A fully discharged battery pack should take approx. 1.25 hours to be fully charged. It is safe to leave the unit always connected for a charge. After fast charge, the battery will trickle charge at a rate of C/50 which is (1/50 x 1.3aH) or 26 milliamps.

RECHARGING THE PRINTER

Insert 12VDC Probe into lighter outlet



TOP OF FORM PUSHBUTTON (BLACK)

The TOP OF FORM pushbutton will cause the paper to advance to the top of the next form. Once this button is pressed the paper will advance until the TOP OF FORM mark is detected. During the paper advancement, the print head is constantly moved across the paper to help prevent the paper from getting caught under the print head. Once the TOF mark is detected and the pushbutton is released, the printer will home the print head and is then ready to operate normally.

TOP OF FORM is detected by the top of form sensor located at the right side of the paper tray under the drag bar. The threshold of the sensor is factory calibrated.

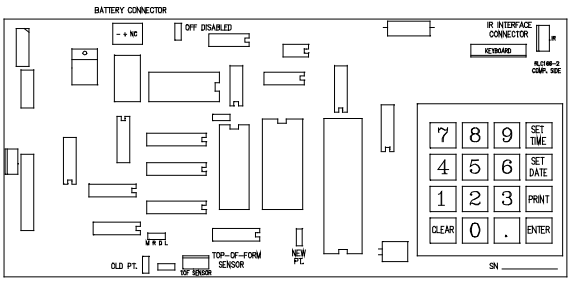
PRINT PUSHBUTTON (RED)

The PRINT pushbutton will cause a ticket to be printed as long as the printer is receiving a signal from the T675 and the RED STATUS LED is flashing rapidly. First, the ticket information is stored in the ticket storage memory. Next the paper advances to the top of form (if it is already at top of form, the paper will back up slightly then advance forward so that the ticket is aligned with the upper edge of the top of form mark). Finally, the print head returns to home (leftmost) position, and the ticket is printed. The paper is then advanced to the top of the form position so the ticket can be easily removed from the printer.

SETTING THE TIME AND DATE

The time and date are received from the T675 and therefore must be changed in the T675 in order to be changed on a ticket.

PRINTER CONROL PC BOARD



ERASING CUSTOM MESSAGES

To erase messages using the internal keypad, begin the erase sequence by pressing the CLEAR key. The printer will now print the following menu on the ticket:

0 – DO NOT ERASE
1 – ERASE CUSTOM MESSAGES

To exit without erasing, press any key other than 1. To erase the custom messages press the '1' key, "MESSAGE ERASED!" will print.

CUSTOM MESSAGES: Programmed at the factory

Seven lines available at top of ticket, 3 lines available at bottom of ticket

3 fonts: Large = 20 characters per line
Regular = 40 characters per line
Small = 80 characters per line

MULTIPLE TICKETS

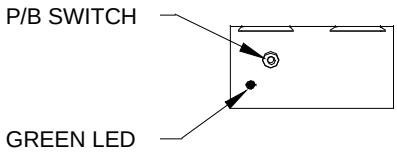
Printer may be programmed at the factory to print up to 3 copies. User must specify number of tickets required. The first ticket will print ***ORIGINAL COPY***, the second ticket will print ***DUPLICATE COPY***, and the third ticket will print ***TRIPLICATE COPY*** as the last line of the ticket. The following is an example of a standard ticket:

	ORIGINAL COPY	message, bottom of ticket

OPERATION PROCEDURE
T675 WITH SP825 DATACUBE & SP834 PORTABLE PRINTER

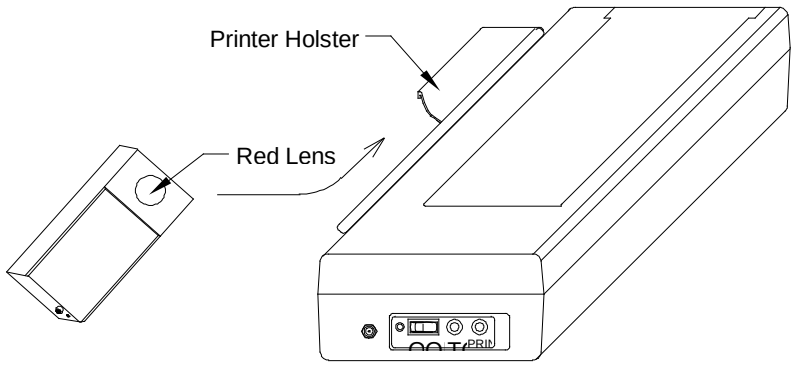
To be performed as the final segment of delivery procedure.

1) Turn the SP825 'ON' by depressing the P/B switch. Two short low volume beeps will occur and the green LED indicator flashes quickly.



2) With red lens inward, align SP825 in T675 bracket. One long loud volume beep occurs when data is successfully transferred to SP825.

3) Within 1 ½ minutes with the red lens inward, insert SP825 into SP834

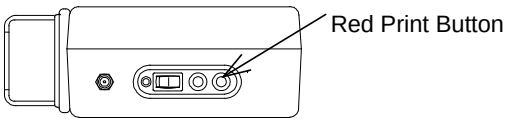


printer holster

4) Turn SP834 ‘ON’ red LED illuminates.

5) SP834 red LED indicator flashes rapidly, indicating communication.

6) Depress ‘RED’ print button.

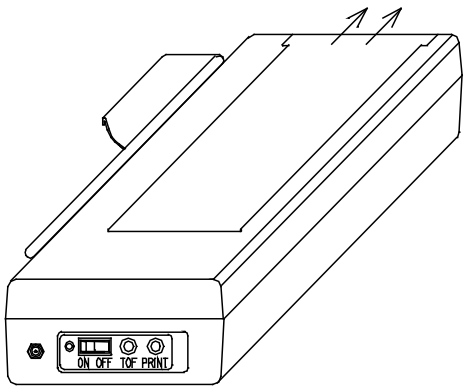


7) Remove SP825 from SP834 printer holster.

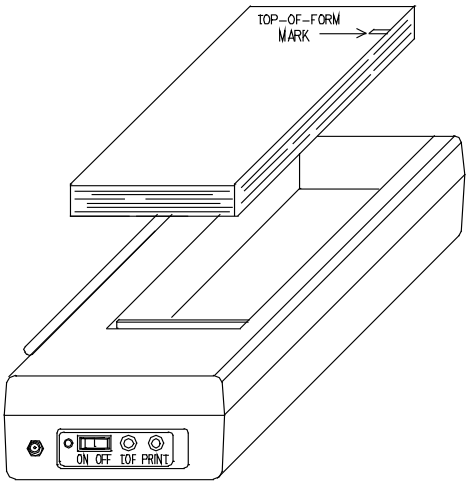
LOADING PAPER INTO THE PRINTER

1) Orient the printer as shown in the following drawing:

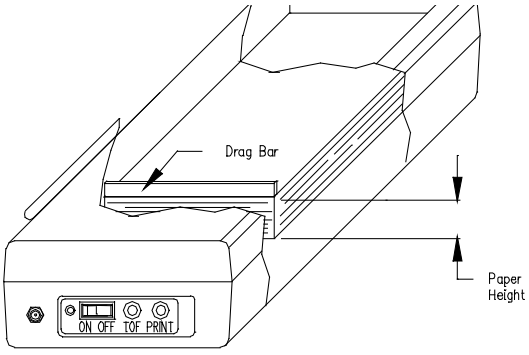
   Slide the paper tray cover back.



2) Place new paper in paper tray EXACTLY as shown:

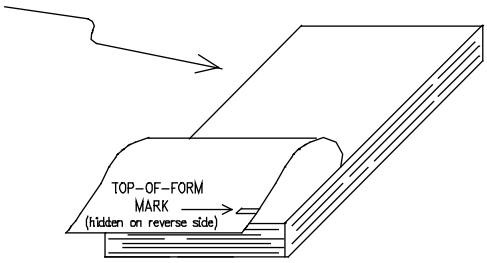


Make sure paper height doesn’t exceed the bottom of drag bar



3) Curl back the top sheet as shown and feed the paper under the drag bar, through the opening and into the printer mechanism, keeping the paper evenly aligned.

4) Press the paper feed pushbutton (BLACK) while feeding paper into printer mechanism. Once the paper catches, the printer will continue feeding paper until the top of form mark is detected.



Replace the paper try cover. The printer is now ready for operation.

DECLARATION OF CONFORMITY

This is to certify that the listed equipment below conforms to the listed Directive and Product Standard.

Name of Manufacturer:	Sponsler Company, Inc. 2363 Sandifer Boulevard Westminster, SC 29693 USA
Type of Equipment:	Ticket Printer and Data Cube
Conforming Models:	SP834 (printer) and SP825 (data cube)
Directive/Product Standard:	EMC Directive 89/336/EEC using EN61326
Equipment Type/Environment:	Industrial Location (Class A)

Sponsler, Inc.

Date: February 28, 2002

Signature

Title: President

LIQUID CONTROLS GROUP

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