Introduction

The model SC5000 is a five slot drop-in charger designed especially for charging the batteries used with the Datasouth *Freeliner* printer. Although *Freeliner* can efficiently and safely charge its battery internally, users who want charged batteries available at all times will benefit from using the SC5000. It can simultaneously charge up to five battery packs, allowing you to charge extra batteries while printing.

In addition to normal battery charging, the SC5000 has a battery test and conditioning feature. This function "cycles" the battery under test, safely discharging and then recharging it. This helps assure optimum battery performance, since nicad batteries work best when regularly exercised. We recommend conditioning every battery at least once per month.
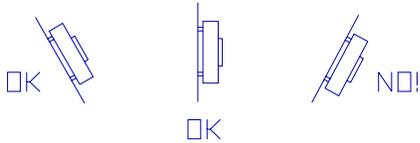
Equipment Supplied

The following items are supplied with the SC5000:

(1)	Drop-in charger module
(1)	Plug-in power supply
(1)	Operating Instructions

Setup

Locate the drop-in charger on a stable work surface near an available AC outlet. The charger can sit on a table, or you can mount it on a vertical or sloping surface using two #8 or #10 wood or sheetmetal screws (not supplied).

NOTE: Do not mount the charger past vertical.

Connect the plug-in power supply cable to the circular connector on the right side of the drop-in charger. Plug the power supply into an AC outlet having the proper line voltage.

CAUTION

Do not try to power the SC5000 using any power source other than the supply provided. Using the wrong power supply can damage the charger, the supply, or both.

Operation

Status LED Indications

The drop-in charger has a status LED for each charging slot. Each LED can show the battery status as follows:

LED off:	No battery in slot
Red LED:	Battery charging - not ready for use.
Flashing green LED:	Battery approximately 50% charged - can be used.
Green LED:	Battery fully charged - ready for full service.
LED flashing red/green:	Battery test in process (test slot only).
LED flashing red:	Possible bad battery slot.

Charging Batteries

Insert batteries in any empty charger slots. Press the batteries down firmly and they will snap into place. Battery charging will begin automatically, and will be finished in approximately five hours. The LED below each occupied slot will light, indicating the charge status. The LED will glow red when charging starts. It will begin flashing green when the charge cycle is about half finished, finally glowing steady green when charging is done.

> **NOTE:** Do not press the test button if you are charging the battery in the test slot. Pressing the test button initiates a battery test, which is not the same as charging the battery.

If the status LED flashes red during a normal charge cycle, the battery may be defective. Condition and test it as described below.

Testing and Conditioning Batteries

The SC5000 can condition one battery at a time. To condition and test a battery, insert it in the test slot and press the button below the slot. The LED below the slot will begin flashing red and green, indicating the test cycle is complete.

A full conditioning cycle takes approximately ten hours. During conditioning, the battery in the test slot will be gradually discharged and then recharged. The test slot status LED will flash red and green during the test cycle, and will finally glow green when testing is complete.

If the test slot LED flashes red during conditioning, the battery under test is probably bad, or marginal at best. You can sometimes restore some life to a marginal battery, though. Before discarding it, try leaving it in the test slot with the test mode activated for 30 hours. If at the end of 30 hours the test LED is still flashing red, the battery cannot be saved.

SPECIFICATIONS

Model:	SC5000
Charging Slots:	5 total. Four slots for battery charging only; one slot for battery charging or battery test and conditioning.
Charge Time:	5 hours or less for full charge.
Input Power:	Uses external plug-in power supply (included). Supply input: 120 volts A.C., 60 watts.
Controls:	Test button: Tests and conditions battery
Indicators:	One status LED for each slot indicates battery charging, battery half charged, fully charged, testing. and bad battery.
Operating Temperature Range:	32° F. (0°C.) to 125°F. (52°C.)
Size:	9.5" (24.13 cm.) W. x 2" (4.5 cm.) H. x 6.5" (16.5 cm) D.
Weight:	Charger body: 2 lbs. (0.9 kg.) Plug-in Power supply: 2 lbs.(0.9 kg.)

FCC Notice

This equipment has been tested and been found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Datasouth Computer Corporation

OPERATING INSTRUCTIONS

Model SC5000

Five Slot Battery Charger

for use with Freeliner