



## Imaging System Technology You Can Count On!

STATIC CONTROL INSTRUCTIONS

The development of quality products for the remanufacturing of printer cartridges, is the primary mission of our Imaging Labs. Through extensive testing and research, we develop the optimum combination of matched components for each cartridge system. Our engineering and manufacturing expertise provides us with total control in design, quality and development to produce products from the ground up. The result is a system of components that seamlessly work together in each cartridge application.

This dedication and commitment results in integrated cartridge systems that Static Control fully supports, allowing you to quickly attack new market opportunities with complete confidence in the reliability and performance of your cartridges.



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STATIC CONTROL INSTRUCTION

SSS™ 684

Version 1 Revision 1 - February 2005  
SYSTEM SUPPORT SERIES™

### PRODUCT INSTRUCTIONS FOR:

### STATSCAN 1 BOX

### HP RF DEVICES

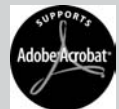
[GO TO WWW.SCC-INC.COM](http://WWW.SCC-INC.COM)

For the latest cartridge information  
Click on "Online Engine Center"

Other System Support Series™  
documents available in  
Adobe® Acrobat® format

### QUESTIONS?

Please call one of our main numbers  
and ask for your  
Support Team Representative  
or E-mail us at:



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StatScan Chip Box (STATSCAN1)

### Product Description

Static Control Components has developed a Chip Read/Write device for HP RF devices such as the 4100, 4600, 5500, 9000 etc.

### Items Included

StatScan portable read/reset box (StatScan1).

Power Supply for the StatScan (SPWRSUP).

Control unit Cable to connect wand to StatScan (SCABLE).

Wand to read/reset chip (SWAND-1)

Adjustable Wrist Strap with 12' cord (WBB-AFWS121M)

### Other StatScan Products

StatScan 2- HP Direct Connect

StatScan 3- Lexmark

StatScan 4- Xerox and Samsung

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## Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. In accordance with 15.21 of the FCC rules, any changes or modifications to this equipment not expressly approved by Static Control Components, may cause interference and void the FCC authorization to operate this equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Printer Model	OEM Advertised Page Yield <sup>1</sup>	Typical Drum Count <sup>2</sup>
HP LaserJet 4100	10,000	56,700
HP LaserJet 9000	30,000	169,700
HP LaserJet 9050	30,000	169,700
HP Color LaserJet 4600 (black)	9,000	60,000
HP Color LaserJet 4600 (colors)	8,000	56,900
HP Color LaserJet 4650 (black)	9,000	54,000
HP Color LaserJet 4650 (colors)	8,000	48,000
HP Color LaserJet 5500 (black)	13,000	82,300
HP Color LaserJet 5500 (colors)	12,000	76,000
HP Color LaserJet 5550 (black)	13,000	86,500
HP Color LaserJet 5550 (colors)	12,000	79,900
Canon EP-85 (black)	9,000	60,000
Canon EP-85 (colors)	8,000	56,900
Canon EP-86 (black)	13,000	125,700
Canon EP-86 (colors)	12,000	116,000

Notes:

- 1 OEM Advertised Yield is the page yield expectation published by the OEM, which is usually based on a 5% toner page coverage.
- 2 Typical Drum Count is the estimated number of full drum rotations if the OEM advertised yield pages are printed and the average print job size is 3 pages. Estimation derived from proprietary SCC research.

### How to use the StatScan Chart of Typical Drum Counts

Component wear is highly correlated with OPC drum rotations. Drum rotations, or drum count, depends upon the specific printer model, the number of pages printed and the average print job size. The combination of these factors is reflected in the number of drum rotations. SCC has conducted research to determine the number of drum rotations per printer model given a standard baseline for usage patterns. The standard baselines used for measuring typical drum rotations is based on the OEM advertised page yield and a 3-page print job size.

Using StatScan, retrieve the data recorded on the chip of a used toner cartridge. The data will include the actual number of pages printed and the drum count (OPC drum rotations) experienced by the subject toner cartridge.

Compare the actual data for the subject toner cartridge to the StatScan Chart of Typical Drum Counts. If the Actual Drum Count exceeds the Typical Drum Count number, then the toner cartridge's components likely experienced above average wear. If the Actual Drum Count is less than the Typical Drum Count number, then the toner cartridge's components likely experienced below average wear. Consider the component wear based on drum count when making decisions about what needs to be replaced when remanufacturing.

The decisions you make about replacing or reusing components are your own. Your decisions will depend upon your unique perspectives relative to balancing product cost and product quality. StatScan data will not make component replacement decisions you. However, StatScan provides information so that you can make a more intelligent decision than ever before. That's how you can use StatScan data to better manage your component costs.

## Warnings

1. SCC must have contact with the StatScan box periodically over a preset time that is determined and set at the SCC factory. To remind the user of this, a menu will display daily when the number of days reaches the factory set value. The following are examples of the menus that might be displayed.

### Warning

This box stops in 5 days. To reset the timer, credits must be purchased.

### Warning

This box stops the end of today. To prevent this credits must be purchased.

**Note:** Pressing any button returns the user to the previous operation.

2. The screensaver is updated to display the remaining days before the box will shutdown.

### WARNING

Property of Static Control Components, Inc.

**DO NOT OPEN** or otherwise tamper with this device!  
Box contains sensitive electronic parts.  
If box is opened, irreversible damage will occur!

The purpose of this SSS™ is to provide the information needed to properly use Static Control Components' StatScan Box.

## Set-up

1. Remove the StatScan from the box and plug the adapter into an outlet. Before you hook the adapter to the StatScan, attach the wand to the grey cord; then, attach the grey cord to the StatScan. After the Wand and grey cord are properly connected, attach the adapter to the StatScan. Once the screensaver appears on the screen, press enter and the screen below will appear. If the below screen does not appear, press MENU.

### Menu Mode

Configuration  
Manual READ PROGRAM

Select, Enter

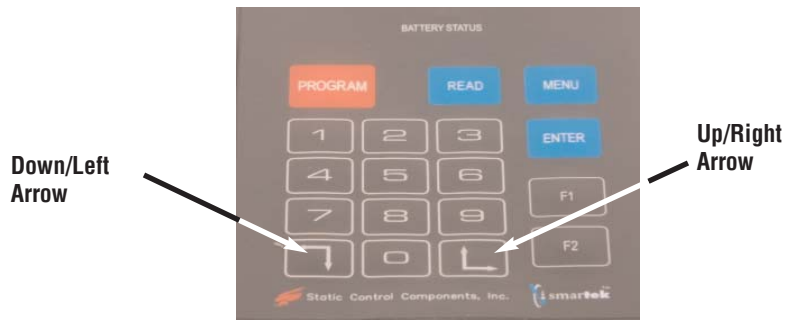
**Note:** If you select an option and decide that you would like to go back to the previous screen, press F2.

**Note:** While using the StatScan, the adjustable wrist strap must be plugged into the StatScan and worn by the operator of the box.



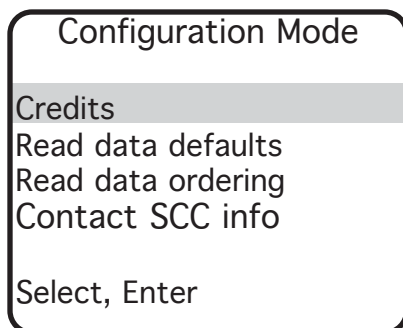
Attach wrist strap to StatScan Box and wrist.

2. Press the up/right and down/left arrow keys to move the highlighted cursor up and down to the desired selection. See Figure below.



## Configuration Mode

3. Highlight Configuration and press enter. The figure below shows the screen that will appear when you press enter.



4. In Configuration Mode there are four options: Credits; Read data defaults; Read data ordering; and Contact SCC info. Highlight the preferred option and press enter.

### Cannot Program Chip

Unknown Chip Type.

Select READ or  
PROGRAM to retry.

### Cannot Program Chip

Verify that the wand  
is connected.

Select READ or  
PROGRAM to retry.

### Cannot Program Chip

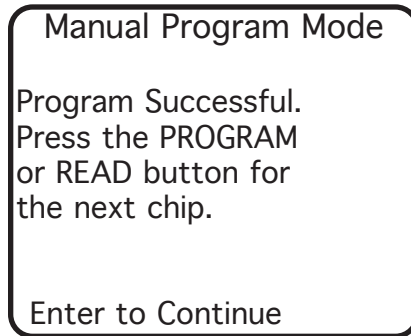
Chip cannot be  
reprogrammed.

Select READ or  
PROGRAM to retry.

### Cannot Program Chip

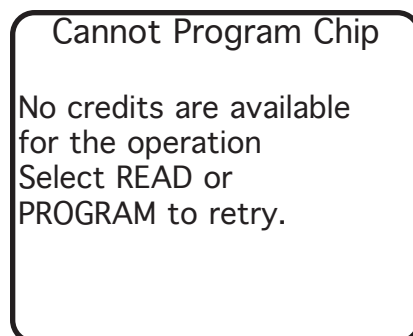
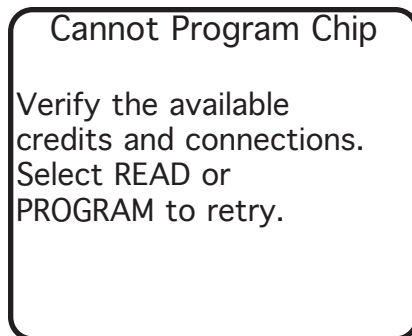
Program not needed  
Universal chip  
already ready.  
Select READ or  
PROGRAM to retry.

- After you have pressed the PROGRAM button, the StatScan will display the following screen if the chip was programmed successfully.



- If the StatScan did not successfully Program the chip, an error message will be displayed. Below are some of the current error messages.

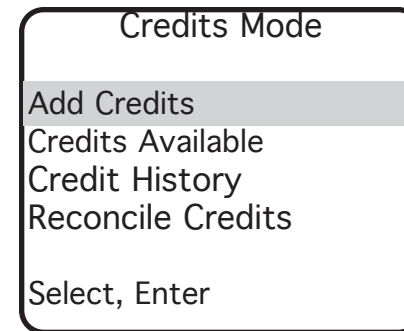
**Note:** Error messages are subject to updates in future releases and may not be identical to the messages shown below.



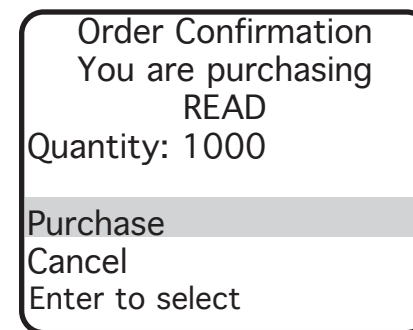
- The Credits mode allows the user to add credits to the StatScan and view available credits. The Read data defaults and Read data ordering allows the user to customize how the chip read data is presented. In the read data default menu, use the arrow keys to scroll up and down the list of options. To turn an option off, press the F1 button and the selection will not be displayed during the chip reading process. The contact SCC info provides the Static Control Components web site address and contact phone number.

## Credits Mode

- If the Credits option is selected, the following screen will appear.



- The Add Credits selection will allow you to add credits to the StatScan for reading and programming chips. Scroll up and down the menu of credit types; select the desired chip type and press enter; then, enter the preferred amount of credits and press enter. The following screen will appear.



3. If the type and the number ordering are correct, then highlight purchase and press enter. If something is incorrect, highlight cancel and press enter. The StatScan will give you a twenty-digit number and your box ID number to provide to SCC, via Internet or by phone. To get the internet address or phone number, go back to the Configuration mode and highlight Contact SCC info and press enter. After you give SCC your twenty-digit number, follow the directions on your StatScan Box to complete your order.
4. In the Credits Mode, you can check your available credits and history of credit purchases by highlighting the Credits Available/History option. Press enter to see the current available credits and the purchase history for each credit or chip type.
5. Although ordering credits is relatively simple, if there is an incorrect entry of the twenty-digit number provided, the credits will not be added to the StatScan but the users account will be charged. To resolve this issue go to Credits Mode and highlight Reconcile Credits and press enter. Provide the number to SCC to resolve the charge.

## Manual Read or Program

1. Start in the Menu Mode and highlight Manual READ PROGRAM and press enter. The following is a print of the screen that will appear when you select Manual READ PROGRAM.

### Manual READ PROGRAM

Connect the chip.  
Press the READ or  
PROGRAM button.

F2 to BACK

**Note:** If the wand can connect to the chip while in the cartridge, it does not have to be removed from the cartridge.

2. Place the Wand on top of the chip you plan to Read or Program as shown in picture below, and press the button for the desired function, e.g. PROGRAM (to program a chip) or READ (to read the information on the chip).



3. After you have pressed the READ button, the StatScan will read the information in the chip and give you a display screen of the information that you selected to view in the Configuration Mode. Use the arrow buttons to scroll up and down through the list of information.

**Read Chip Data**  
Arrows to scroll  
Avail Reads 999  
Mfr: SMARTEK  
Prnt: HP4100  
Color: N/A  
Yield: High  
MfgDate: 11 15 2004