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PN 096-0239-005

Data I/O endeavors to ensure that the information in this document is accurate.

NOTE TO FLASHPAK CUSTOMERS: This Operator's Guide is also for all FlashPAK units, perdecesor to FlashPAK II. Although features have been added by the incorporation of our FlashCORE II technology and the maturation of the product, most of the procedures are identical.

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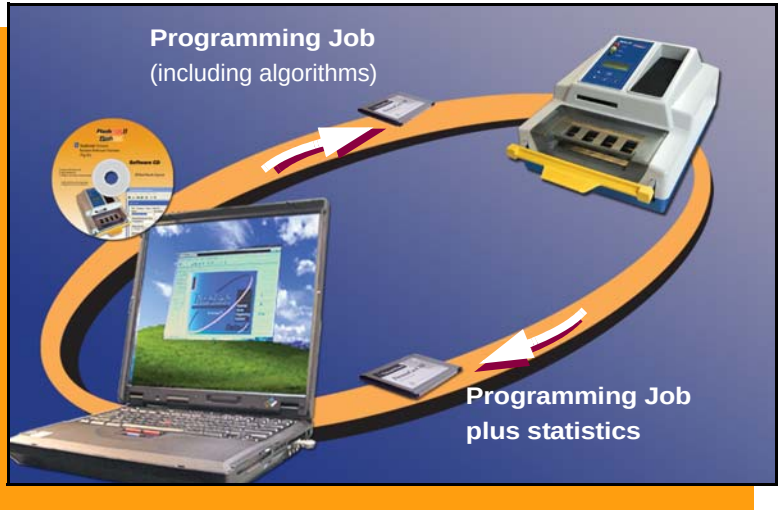
Warnings and Cautions

	Electrostatic Discharge	**Electrostatic Discharge (ESD) may cause damage. Discharge static electricity to a common ground.**
	Compressed Air	**Point air hoses away from body. Always wear eye protection.**
	High Voltage	**Do not remove covers. No user serviceable parts.**
	Radio Interference	**This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.**

FlashPAK II™ and TaskLink™

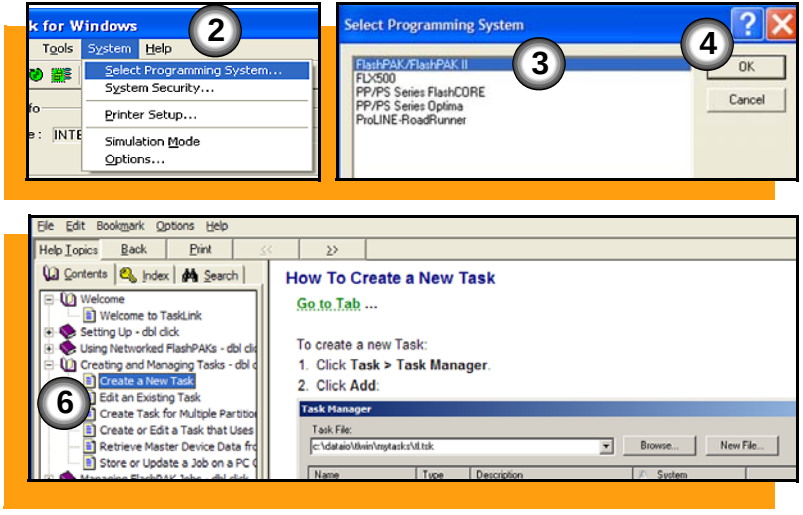


Data I/O's FlashPAK II is a scalable solution for engineering and manual production programming of Flash memory devices, many microcontrollers, and EPROMs. TaskLink™ for FlashPAK II™ (included) is software required to create and manage jobs. A job is all the information required to program devices.

A PC card (or network) is used to transfer software between TaskLink and FlashPAK II. The PC card also stores jobs, algorithms, and statistics which do not reside in FlashPAK II.

A job card is a PC card with a job written to it, and may contain Supervisor Authority or not. ■

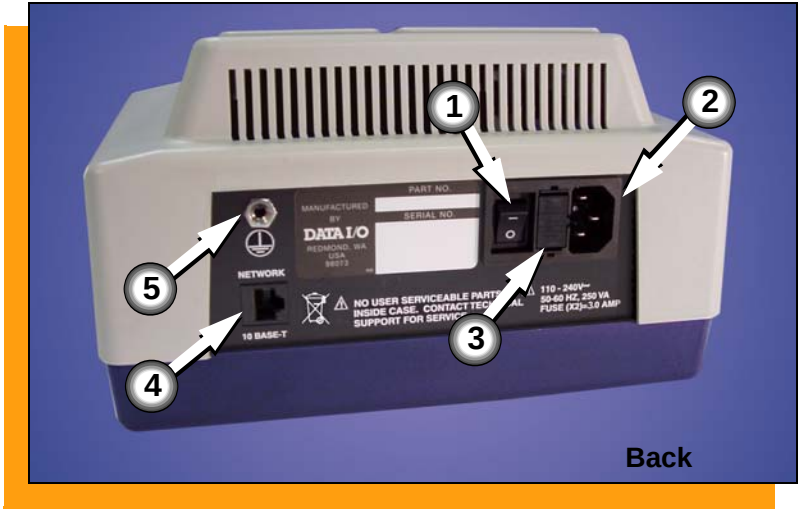
Use TaskLink to Create a Job



Within TaskLink is a Help file to assist you in creating a job. After TaskLink is installed on your PC:

1. **Double-click the TaskLink icon.**
2. **Under the System Menu click *Select Programming System*.**
3. **Select *FlashPAK/FlashPAK II*.**
4. **Click OK.**
5. **Under the Help Menu select *Help Topics*.**
6. **In the list of help topics select *Creating and Managing Tasks > Create a New Task*. ■**

Feature Locator

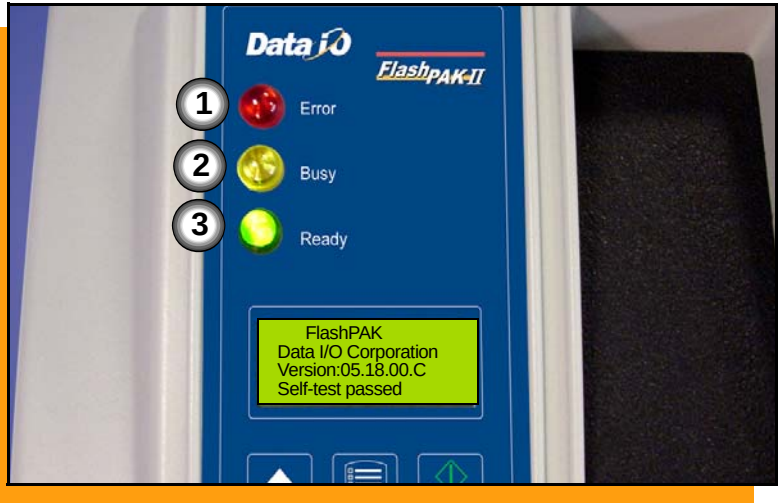


1. Power Switch
2. Power Connection
3. Fuses
4. Network Connector
5. Ground Strap Connection

(For a key to symbols see page 52.)

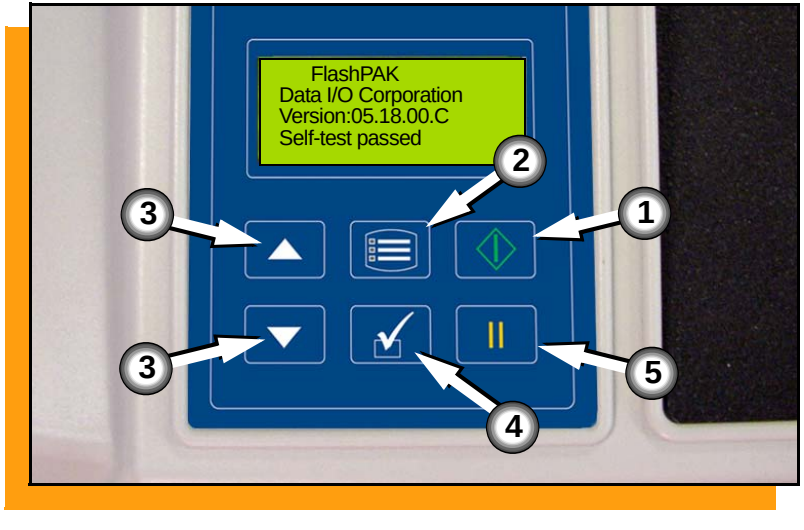
6. **Control Panel with LCD display**
7. **Status Lamps**
8. **Reject Area**
9. **Actuator Cover**
10. **Socket LED (light emitting diode)**
11. **Actuating Bar**
12. **Socket Adapter**
13. **Actuator Plate**
14. **Socket number 1** 1□□□
15. **Card Slot & Eject Button** ■

Control Panel Lamp Interpretations



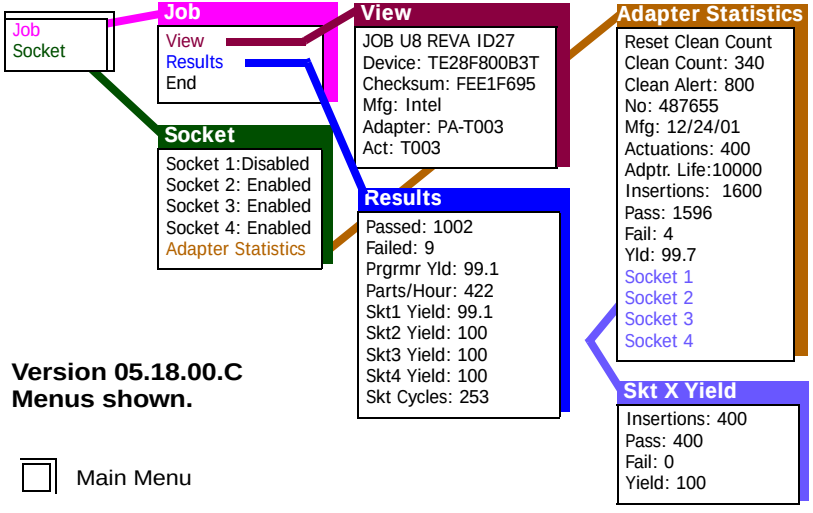
1. **Red - One or more devices currently loaded has failed programming; or the Self-test failed; or any other errors.**
2. **Yellow - (blinking) Programming in progress or the memory card is being accessed. Do not open sockets. Do not eject the card. Button presses are not recorded when blinking.**
3. **Green - Programmer is ready for input; or Programming is complete and successful in all usable sockets (see page 28). Okay to open sockets. Okay to eject PC card. ■**

Control Panel Buttons



1. Start - Starts or resumes a job. If Auto Start (page 38) has been disabled, *Start* programs the next block (set of four devices).
2. Menu - Displays the main menu —or Exits to the previous menu —or Shows next error message —or Deselects an item.
3. Up and Down Arrows - Navigates through menu items. A triangular pointer (not shown) indicates scrollable menus.
4. Select - Selects menu items. (The word *Select* is used to mean push the select button.)
5. Pause - Pauses the job and displays results. Pressing it twice ends a job. ■

Operator Menus



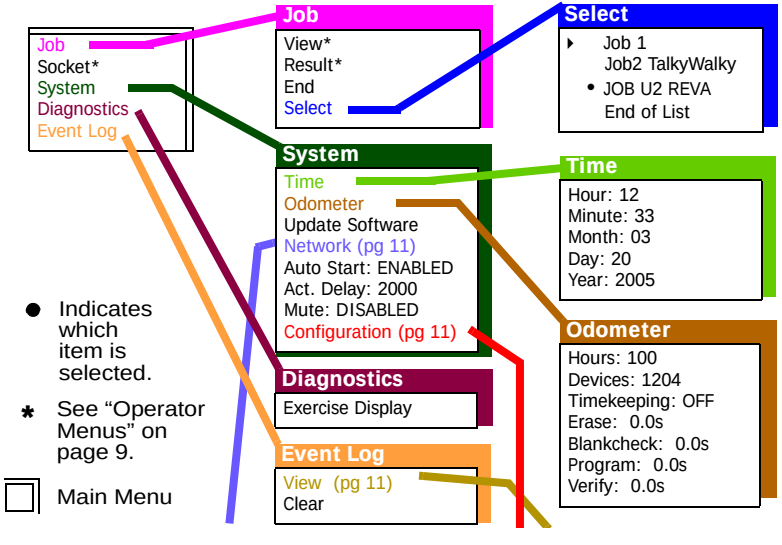
Operator Menus are visible on FlashPAK II's control panel, and can be navigated by pressing the Up or Down Arrow buttons.

Pressing the Menu button displays the menu, or moves up one menu.

If you are at the main menu, pressing Menu will have no effect.

The Clean Alert in the Socket > Adapter Statistics menu can be changed so the popup message to clean the adapter is after an appropriate number of insertions. After using the Up or Down Arrow buttons for adjustment, press the Menu button. ■

Supervisor Menus



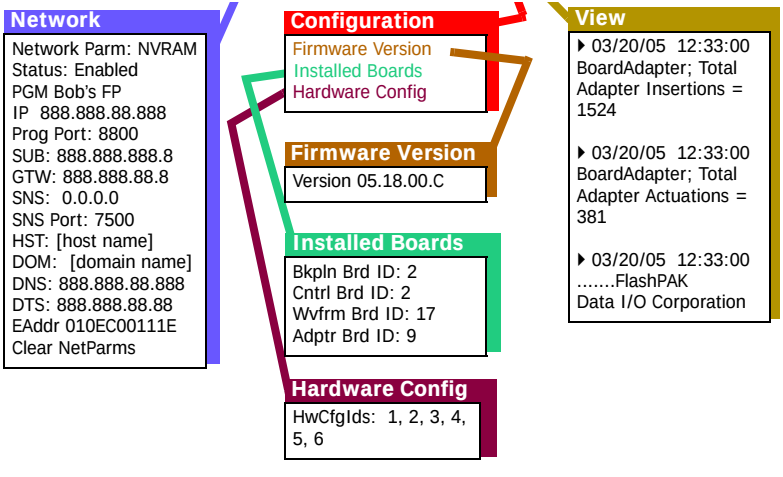
Version 05.18.00.C menus shown.

To view the Supervisor Menus insert a job card that has Supervisor Authority. Supervisor Authority is set in TaskLink: refer to TaskLink Help.

Pressing the Select item in the Supervisor menu allows viewing all the jobs on the current card and selecting one.

FlashPAK II makes a subtle beep when it finishes programming each block of devices. The beep can be shut off by enabling the Mute command in the System menu.

Supervisor Menus continued

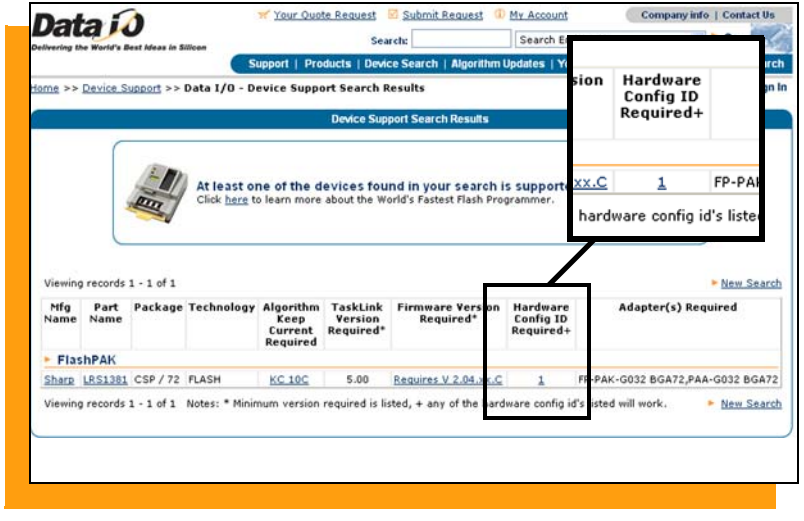


Network Menu Abbreviations:

PGM = Programmer name
SUB = Subnet mask
GTW = Gateway
SNS = Serial Number Server IP
SNS Port = Serial Number Server Port No.
HST = Host name
DOM = Domain name
DNS = Domain name server
DTS = Date and time server
EAdder = Ethernet address (not editable).

Your FlashPAK firmware version is listed at System > Configuration > Firmware Version.

Supervisor Menus continued



Hardware Configuration IDs (listed at System > Configuration > Hardware Config) are useful for determining whether a new device algorithm is supported on your current FlashPAK configuration. (Configuration IDs represent different programmer features.)

The HwCfgIds are listed with the Data I/O Web site Device Search results. ■

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Connecting Power

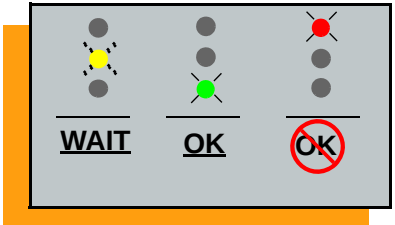
To connect power:

1. **Push the FlashPAK II power switch to the Off (0) position.**
2. **Connect to a grounded power source using a cable with a standard IEC 320 plug (supplied).**

FlashPAK II accepts power between 100 and 240 VAC, 50/60 Hz.

When power is switched On (I) the Self-test runs. If the keypad display is blank, check the fuse in the back of the unit. ■

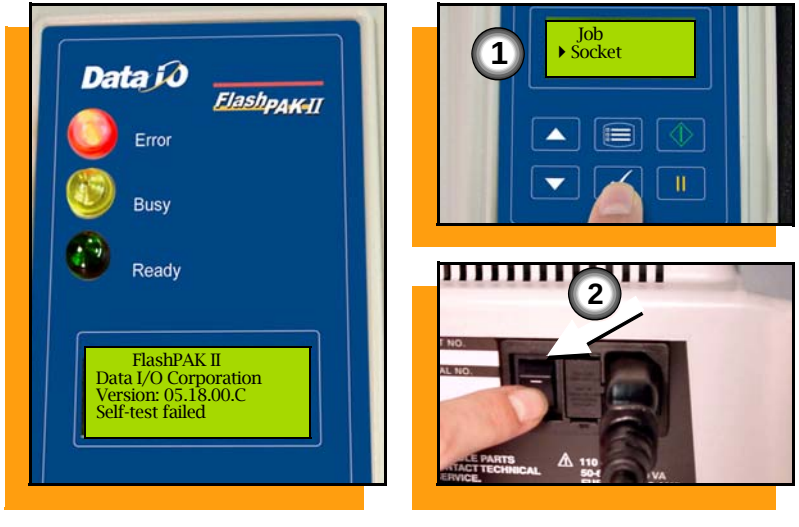
Running the Self-test



To run the Self-test:

1. **End the job. See “Ending a Job” on page 31.**
2. **Remove any devices from the sockets.**
3. **Lift the Actuator Bar to the Up position.**
4. **Toggle the power switch Off (0) and then back On (I) to initiate the Self-test.**
5. **When the Self-test finishes the yellow lamp stops blinking and, when successful, the green lamp lights and the system software version number displays. ■**

If the Red Lamp Lights



If the red lamp lights after switching the power on, an error has occurred and "Self-test failed" displays. A lighted socket LED indicates that the socket is unusable. Do not load devices into unusable sockets.

1. **To view socket status, at the main menu scroll to and select Sockets.**
2. **To see if the problem is the Socket Adapter or the programmer, remove the Socket Adapter (see page 18) and rerun the Self-test without it by toggling the power switch. If the red lamp still lights, contact Technical Support (page 61). ■**

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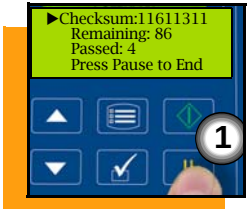
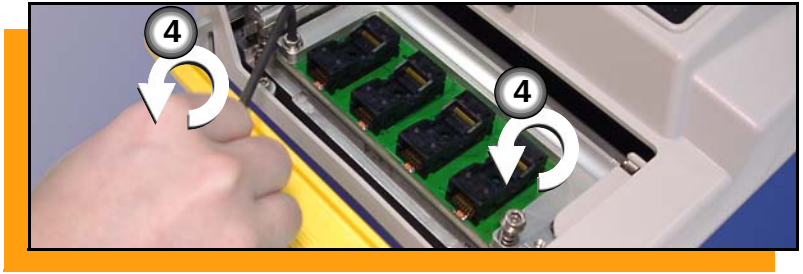
Changing the Socket Adapter





To change the Socket Adapter and Actuator Plate:

NOTE: Plug your operator ESD strap into the back of FlashPAK to prevent electrostatic discharge.

1. **End the job (see page 31).**
2. **Open (or lift off) the Cover.**
3. **Slide the Actuator Plate out of the grooved bracket. The Actuating Bar must be up.**
4. **Unscrew the two captive screws (4 mm Allen wrench) and lift the Adapter Bracket.**

Caution

Electrostatic Discharge May Cause Damage.
Discharge Static Against Common Ground.

5. **Without touching the gold contact surfaces on the bottom of the Socket Adapter, lift it up off the dowel pins, and out.**
6. **Insert the correct Socket Adapter, making sure that it seats on the dowel pins.**
7. **Tighten the screws.**
8. **Insert the correct Actuator Plate with the flanges up and part number facing front.**
9. **Close (or replace) the Actuator Cover.** ■

First Time Network Connection (optional)

To make your FlashPAK II network accessible (for the first time):

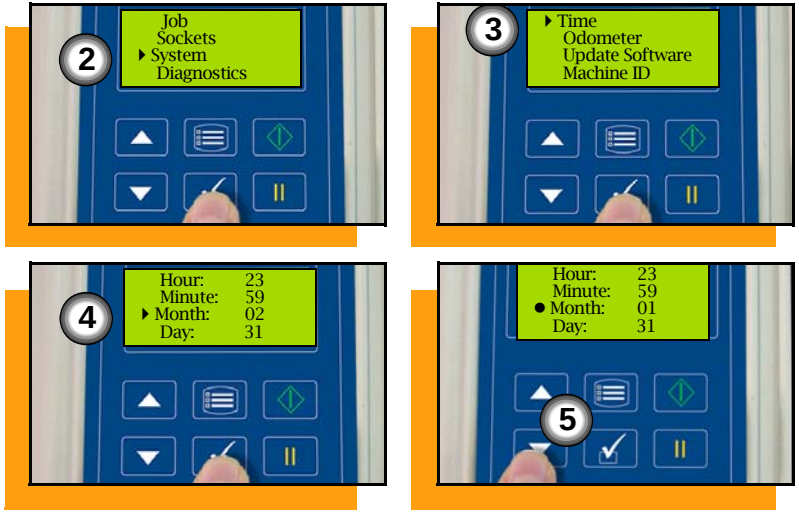
1. **Insert a blank PC card into a reader. Then in TaskLink, create a Network Configuration card.**
2. **Remove the PC card and put it into FlashPAK II.**
3. **Plug your network cable into FlashPAK II.**
4. **Switch the power Off and then On. ■**

Subsequent Network Connection (optional)

To network your FlashPAK II (after it has previously been network configured):

1. **Put the PC Network Card into FlashPAK II and switch power On.**
2. **Press Menu until you see the top level menu.**
3. **Scroll to and select System.**
4. **Scroll to and select Network.**
5. **Press Select again to edit.**
6. **Press the Down Arrow to change the setting to Card.**
7. **Press Menu to save.** ■

Setting the Date and Time



The time can only be set using a job card with Supervisor Authority.
To set the time:

1. **End the job (see page 31).**
2. **Scroll to and select System.**
3. **Select Time.**
4. **Scroll to and select the desired parameter. A round dot appears next to the parameter.**
5. **Press the Up Arrow or Down Arrow to adjust the parameter.**
6. **Press Menu to finish.**

Select and set other date/time parameters as desired. ■

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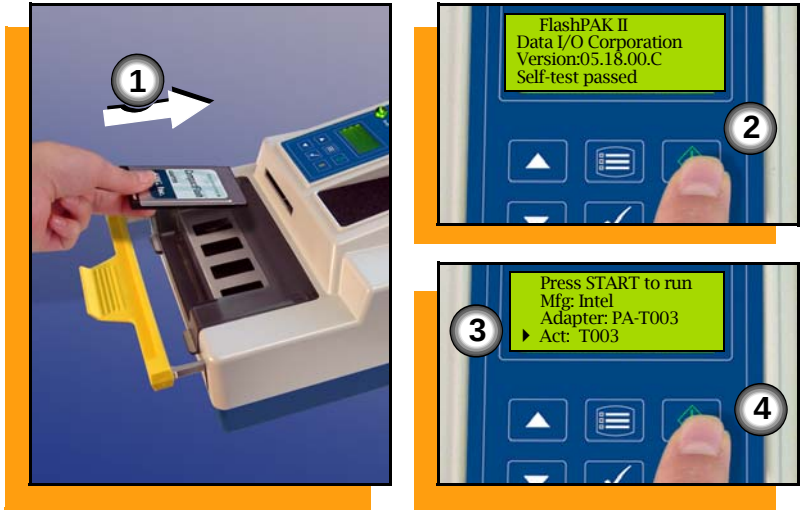
Running a Job



To run a job:

NOTE: Connect operator ESD strap into the back of FlashPAK II.

1. **Insert a job card into the card slot. (Switch the power On (I) if it is not, and wait for the Self-test to complete.)**
2. **Press Start. While the job is loading the yellow lamp blinks—Do NOT remove the card or power.**
3. **Verify that your setup matches the parts listed. Change parts that do not.**
4. **Press Start to run. Follow instructions in the display.**

To run a job (with Auto Start on) push the Actuating Bar down, load the sockets, lift the Bar to program. When the yellow lamp stops blinking, push the Bar down and remove devices. Continue until the job is done.

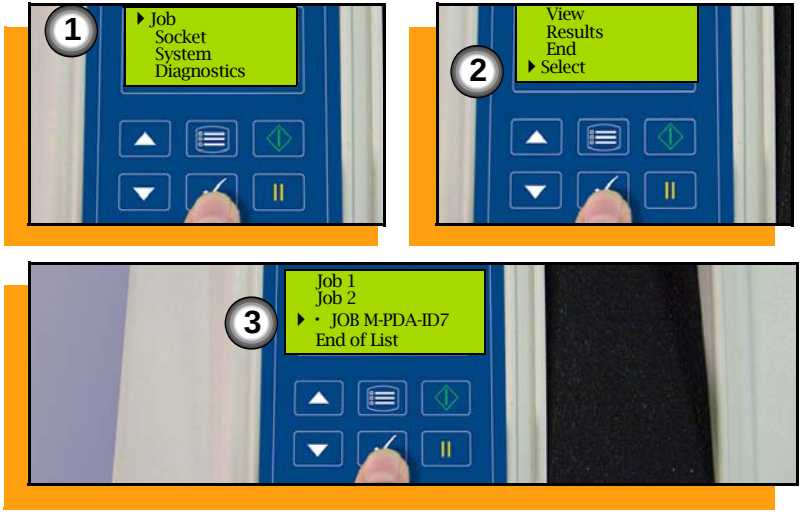
NOTE: The Actuating Bar must be down (sockets open) to insert devices into the sockets.

Lifting the Bar automatically starts the programming phase (unless Auto Start is disabled, page 38).

For Device Orientation see page 27.

To create a job on a memory card use TaskLink; see its Help menu. ■

Selecting a Job



If more than one job is loaded onto a card, a card with Supervisor Authority allows for job selection.

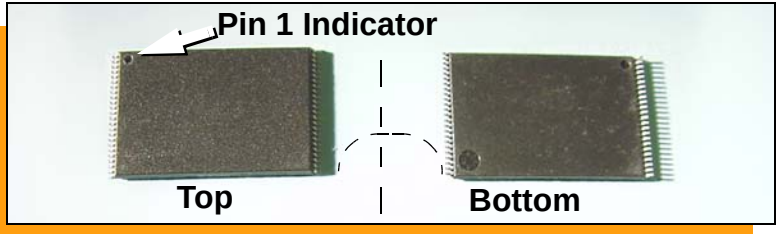
To change the selected job:

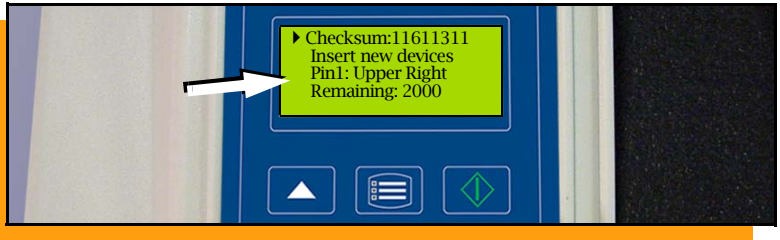
1. **Select Job.**
2. **Select Select.**
3. **Scroll to and select a job. A round dot appears next to the job selected to run.**

A job card without Supervisor Authority runs the job previously selected by a supervisor.

For more help see the TaskLink Help Menu. ■

Device Orientation





Most devices have a dimple located at pin 1. See manufacturers' specifications.

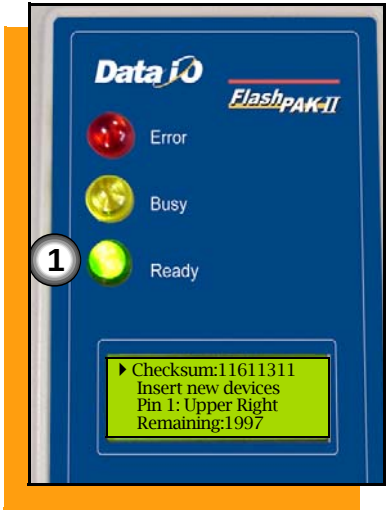
The five possible pin 1 device orientations in a socket are:

Upper left	**Upper right**
Top center	
Lower left	**Lower right**

When FlashPAK II is ready for device insertion, see the pin 1 orientation in the display.

NOTE: Use a tool such as a vacuum tweezer for inserting and removing devices from sockets. ■

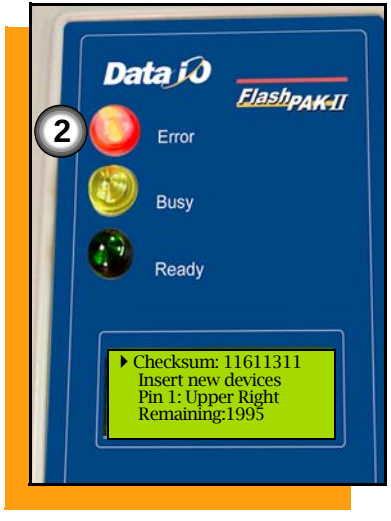
Interpreting Block Programming Results

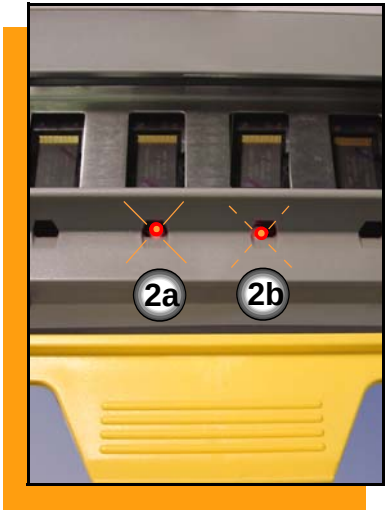


A block of devices is all the devices affected by one push of the actuaor bar (usually four). After each block programming operation the lamps indicate the following:

1. ● Green lamp = All present devices were successfully programmed as defined by the job.

1a. ● A blinking red Light Emitting Diode (LED) indicates an empty socket or a device oriented incorrectly. (Empty sockets are not included in the statistics computation.)





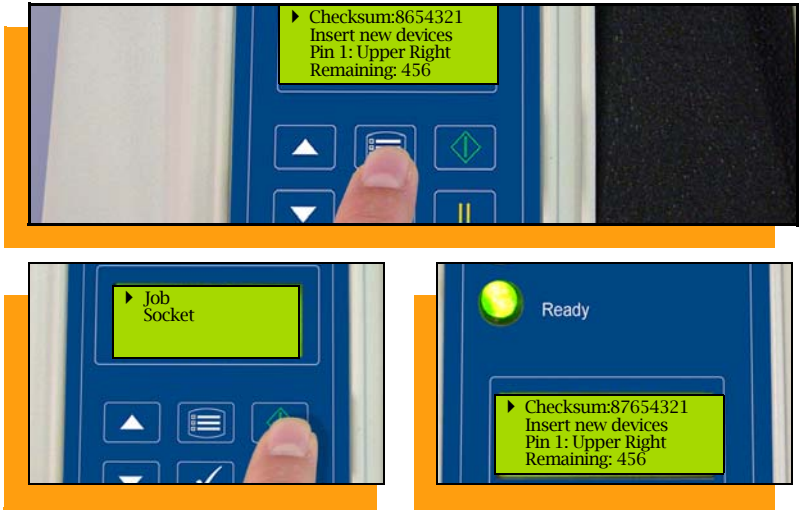
2. ● Red lamp = At least one device in the current block failed to program.

2a. ● An evenly lit LED indicates a device that failed programming. Place those devices into the reject area.

2b. ● A blinking LED indicates a continuity error or an empty socket.

The display indicates devices remaining to program and socket status (scroll down to see). "Passed" is *total* devices passed for the job. ■

Accessing the Menu



Access the menu to view information or to change settings. When the menu is accessed, job statistics are written to the job card.

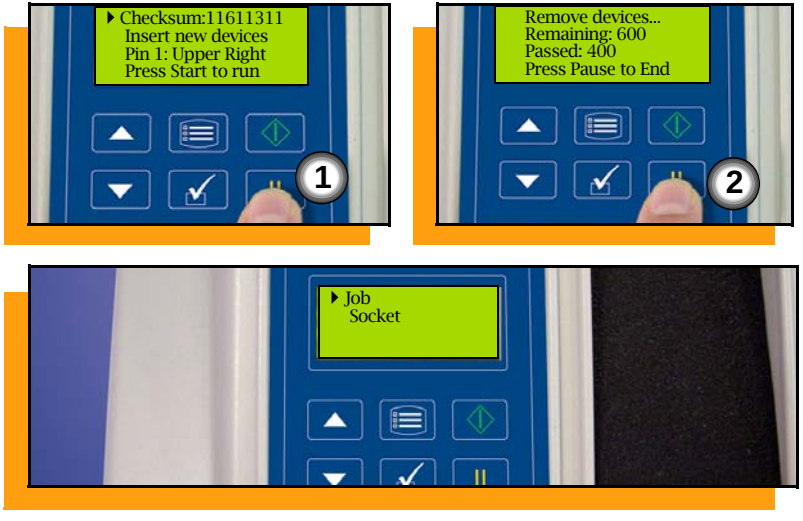
To access the menu:

- **Press Menu any time that the yellow lamp is not blinking.**

To continue programming:

- **Press Start. The job resumes. Follow the instructions in the display. ■**

Ending a Job



To end a job (before it finishes):

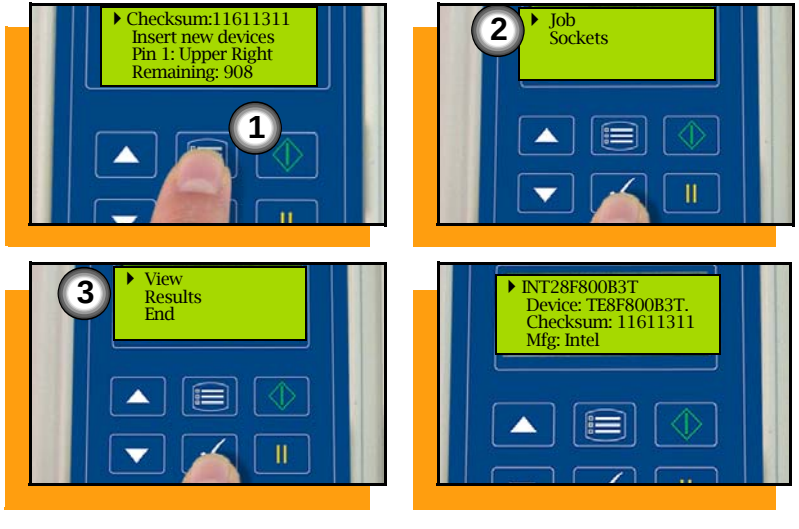
1. **Press Pause any time that the yellow lamp is not blinking.**
2. **Programming results display. Remove devices. Press Pause.**

   (To cancel the End sequence, instead of Pause, press Start to resume the job or press Menu.)

   NOTE: Programming of the current block of devices is always completed.

   NOTE: Some menu parameters require ending a job before they can be changed. ■

Viewing Job Information



To view job information:

1. **Press Menu any time that the yellow lamp is not blinking.**
2. **Select Job.**
3. **Scroll to and select View.**

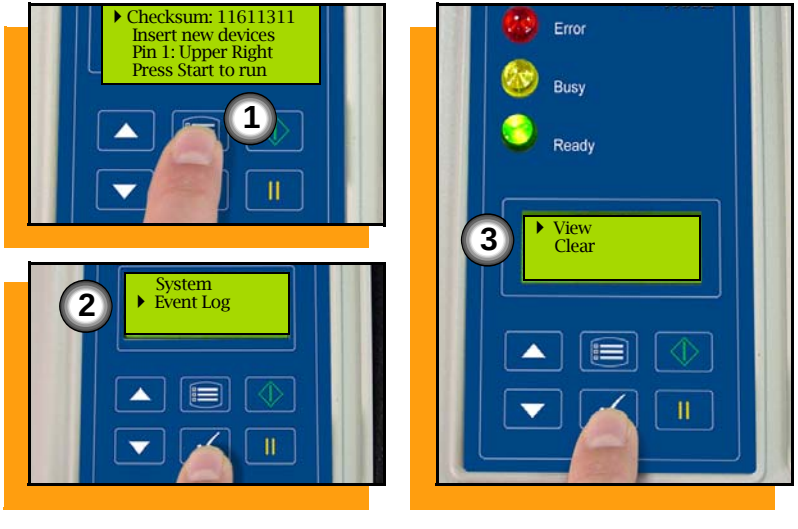
Scroll down to see more information; Actuator Plate and Socket Adapter numbers are also displayed for the current job. Press Menu to back up one level, or press Start to program devices.

To view yield calculations:

1. **Press Menu any time that the yellow lamp is not blinking.**
2. **Select Job.**
3. **Scroll to and select Results.**

Press Menu to back up one level, or press Start to program devices. ■

Viewing the Event Log



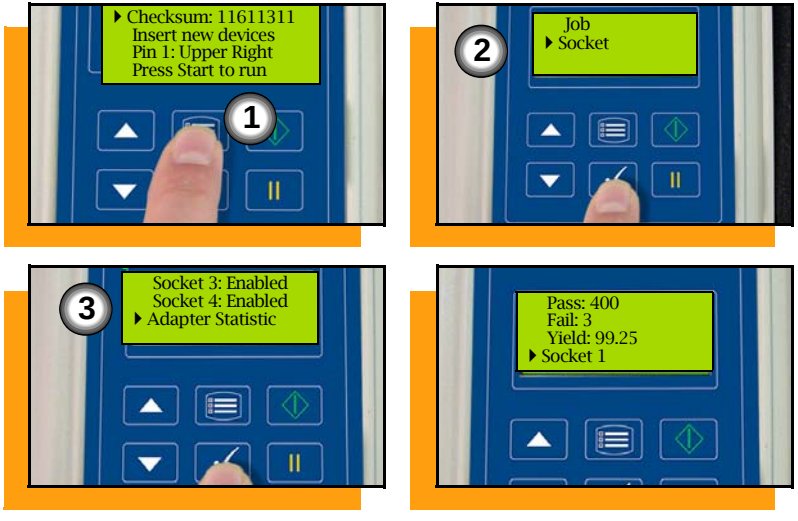
The event log provides unit history useful to support personnel for troubleshooting.

To view the event log (Supervisor Menu only):

1. **Press Menu any time that the yellow lamp is not blinking.**
2. **Scroll to and select Event Log.**
3. **Select View.**

To clear the event log select Clear. ■

Viewing Adapter Statistics



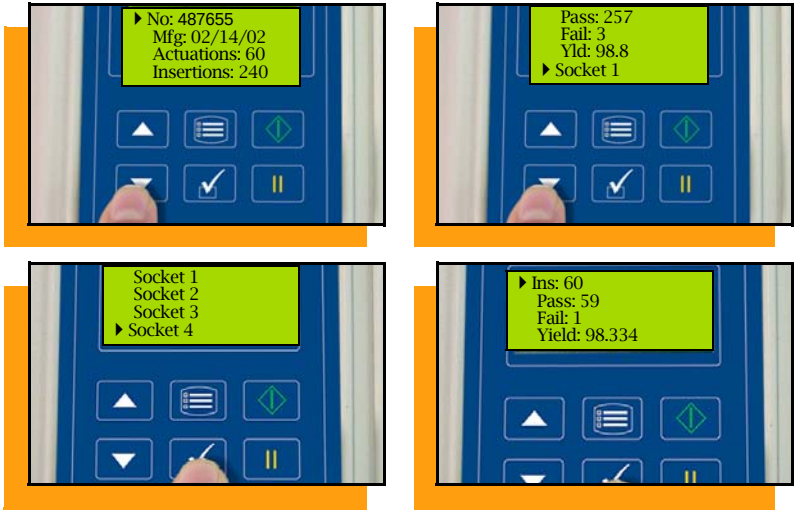
To view adapter statistics:

1. **Press Menu any time that the yellow lamp is not blinking.**
2. **Scroll to and select Socket.**
3. **Scroll to and select Adapter Statistics.**

   To view individual socket yields scroll down and select the desired socket.

To start or resume a job press Start. ■

About Adapter Statistics



No. - unique Socket Adapter ID number.

Mfg - date that the Socket Adapter was first used.

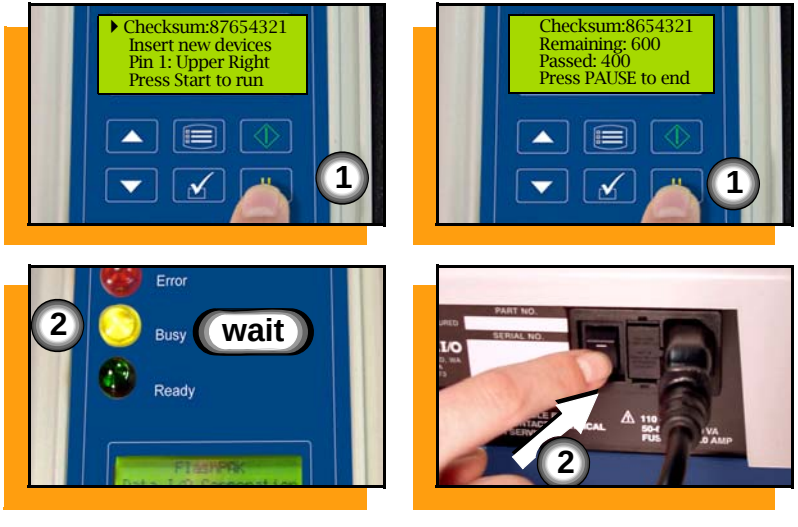
Actuations - the number of times the Socket Adapter has been actuated during its life.

Insertions - the number of device insertions for the life of the Socket Adapter.

Pass, Fail, and Yld. - total statistics for that Socket Adapter.

Socket X - press select for statistics for socket X on that adapter. ■

Switching Off

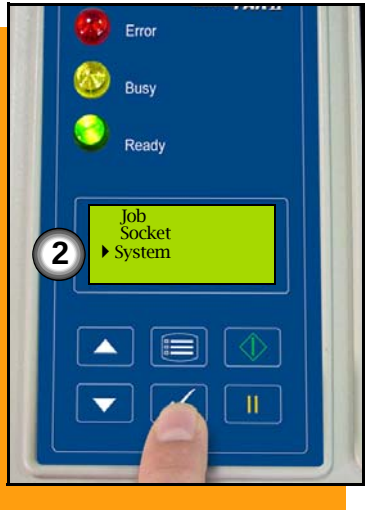


To switch off FlashPAK II:

1. **End the job (See “Ending a Job” on page 31).**
2. **Wait for the yellow lamp to stop blinking and switch the power Off (0).**

   —CAUTION—Do not switch power off when the yellow lamp is blinking. Damage to files on the memory card might occur. ■

Disabling & Re-enabling Auto Start

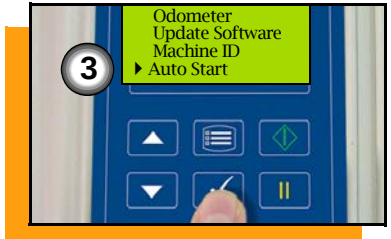


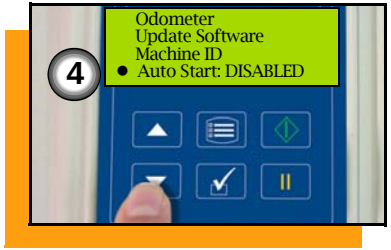
Auto Start is the feature which allows FlashPAK II to begin programming simply by lifting the Actuating Bar (it also closes the sockets). When Auto Start is disabled, you must press Start after closing the sockets to begin programming each block of devices.

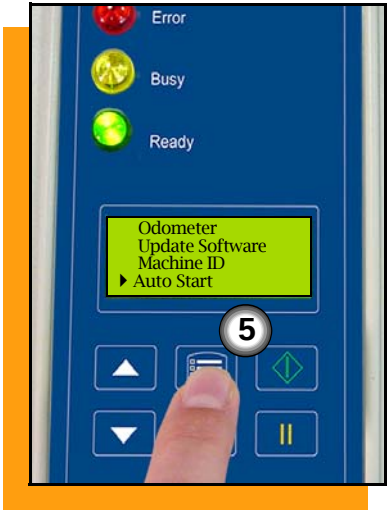
NOTE: The job must be Ended before changing this setting. For Ending a Job see page 31.

To disable Auto Start:

1. **Eject the job card and insert one with Supervisor Authority.**



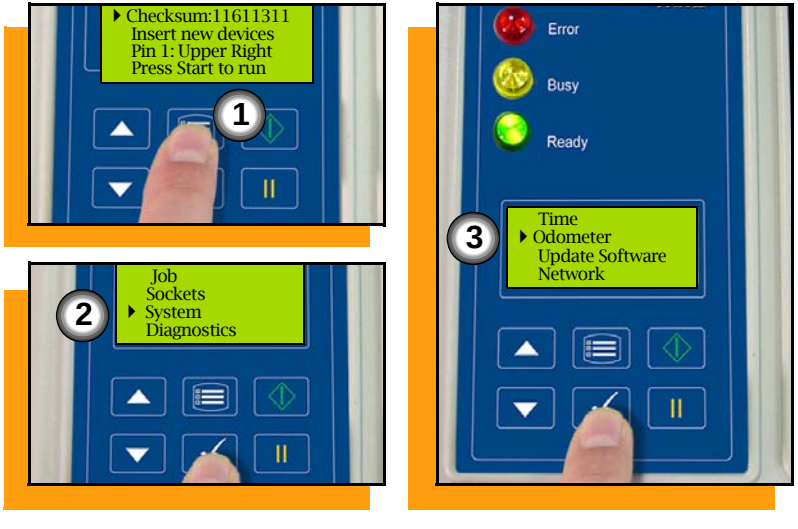




2. **Scroll to and select System.**
3. **Scroll to and select Auto Start. A round dot appears next to the selected item.**
4. **Press the Down Arrow to disable Auto Start. (Use the Up Arrow to re-enable it.)**
5. **Press Menu to finish.**

FlashPAK II retains the setting even after you turn the power off. ■

Viewing the Odometer



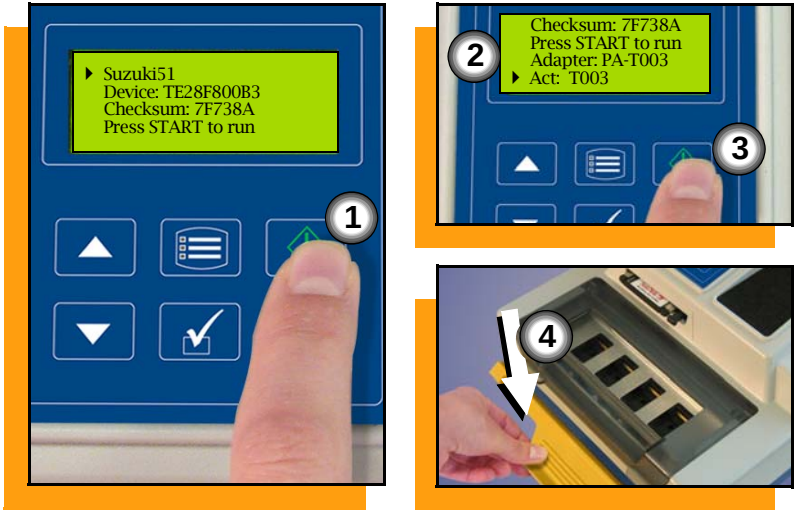
The odometer displays the total hours that FlashPAK II has been switched on, and total devices that PASSED programming. These settings cannot be altered.

To view the odometer with a card with Supervisor Authority:

1. **Press Menu any time that the yellow lamp is not blinking.**
2. **Scroll to and select System.**
3. **Scroll to and select Odometer.**

The Timekeeping feature is also in the Odometer menu. When set to On, it records (and displays) programming times. ■

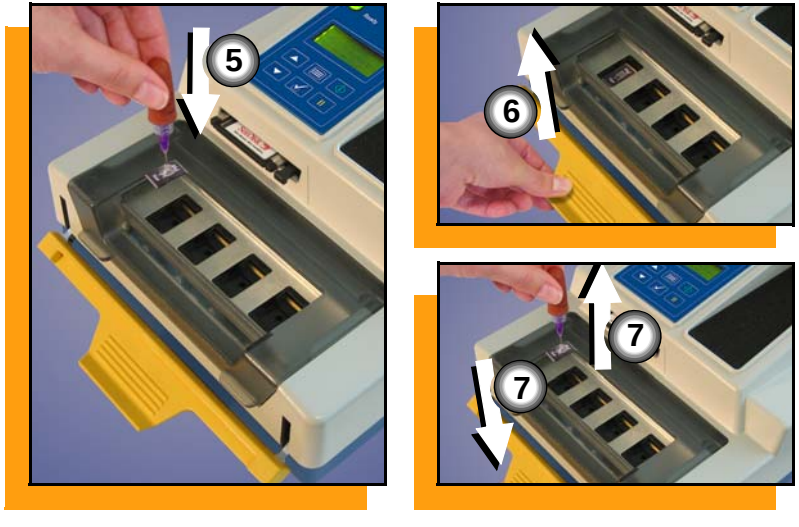
Load Data from a Master Device



FlashPAK II has the option to load source data from a master device rather than a computer file.

To Load from Master Device:

1. **Using a job card in which the Load from Master option was selected in TaskLink, press Start.**
2. **Verify that your setup matches the parts listed. Change parts that do not.**
3. **Press Start again. The display reads "Insert MASTER dev." and shows device orientation.**
4. **Push the Actuating Bar down.**



5. **Put your master device into any socket. Ensure that the other three sockets are empty.**
6. **Lift the Actuating Bar to read data from the master device. The master device checksum is compared to the job checksum (if one was entered at job creation). If they do not match an error message will display.**
7. **When the display reads "Remove master device," push the Actuating Bar down and remove the device.**
8. **Your data is now in FlashPAK II. Press Start to program devices. Follow screen instructions. ■**

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Daily Cleaning

Use compressed air to prevent dust accumulation in the sockets.

1. **Inject compressed air into the sockets.**

   The sockets should be opened and closed while air is injected into them.

   NOTE: Use compressed, dry, clean air only; 90 PSI maximum. A spray can of clean, dry air may be used. See socket manufacturers for other cleaning methods. ■

Warning

Point Air Hoses Away From Body.
Wear Approved Eye Protection.

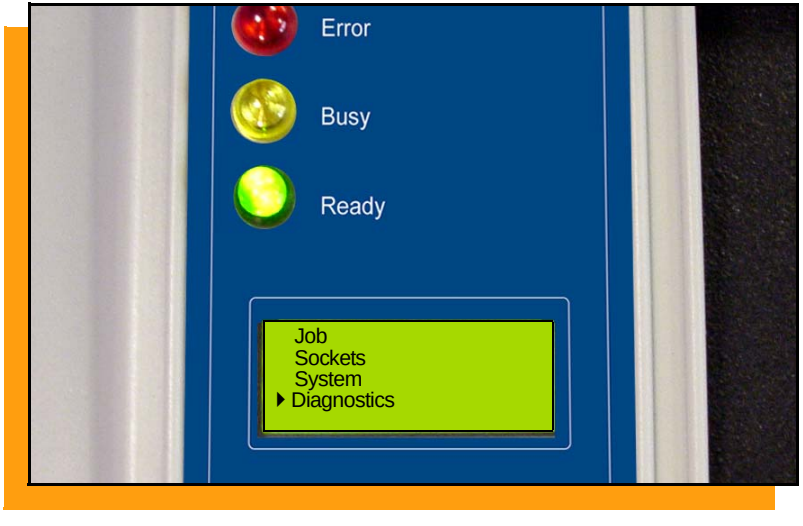
Quarterly Cleaning

FlashPAK II Case:
Clean the case and Control Panel every 3 months with a damp lint-free cloth.

Socket Adapter:
FlashPAK II displays a message to clean the Socket Adapter when the current Adapter has performed a specified number of socket insertions (indicating it needs cleaning or replacing). Press Menu to remove the message.
To reset the number to 0:

1. Select Socket.
2. Scroll to and select Adapter Statistics.
3. Select Reset Clean Count. ■

Yearly Programmer Diagnostics



To ensure that your FlashPAK II continues to meet performance specifications, Data I/O recommends that you return it to an authorized Service Center every year for a complete diagnostic verification. Diagnostics used by the factory are not available in the field.

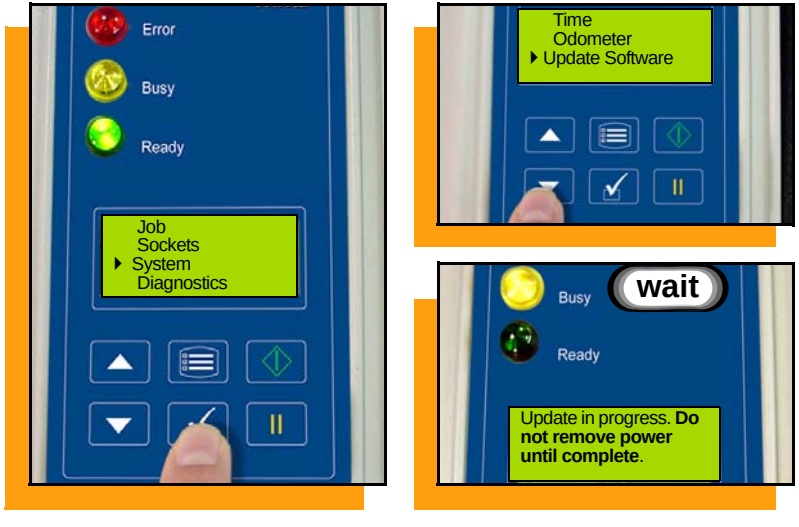
For more information contact Technical Support; see page 61. ■

System Updates

Periodically, updates to FlashPAK II's system software will be available. An update is loaded from a memory card or via an internet. Use TaskLink to copy the update onto the memory card (an "Update Card"), or to select the networked programmer.

> ***NOTE: See "Updating FlashPAK II Firmware," in the TaskLink Help Topics.***

The version of your FlashPAK II operating system is displayed on the keypad at System > Configuration > Firmware Version, and also at start-up; turn the power Off (0) and then On (I) again to see it.



NOTE: The job must be ended before updating software. For Ending a Job see page 31.

Scroll to and select System > Update Software. Press Start.

—CAUTION—Do not turn the power off while the update is in progress. FlashPAK II could be damaged and require servicing if the power is interrupted during an update.
If the red lamp lights, contact Data I/O Technical Support.

NOTE: Algorithm updates are not performed using the Update Software menu item. See TaskLink Help for algorithm updates. ■

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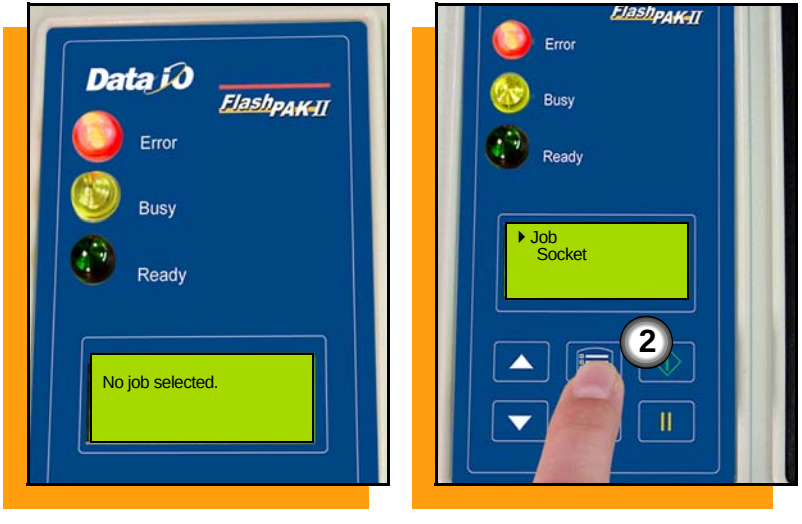
Viewing System Errors



If error messages appear in the display, the red lamp lights.

To view and correct errors:

1. **Check the condition indicated by the message— for example: *No job selected*.**

   If you cannot correct the error condition, contact Data I/O Technical Support.

2. **Press Menu to remove the message.**

   If there are other error messages the next one appears. ■

Some Typical Errors

Programming Error Message	Resolution
Skt X: Continuity	Check that you have the correct device, and for bent pins. Reinsert or reject the device.
Skt X: Empty	If device is present, check pin orientation.
Skt X: Program Error	Reject the device or retry programming it.
Skt X: Verify error	Reject device or retry the device.
Skt X: Erase error	Reject device or retry the device.
Skt X: Blank check error	Reject device or retry the device.
Skt X: EE ID error	Check that you have the correct device for the job. (Press Menu. Select **Job** and then **View**).

Non-Programming Error Message	Resolution
No job selected.	Press Menu, and then insert a job card; or, select a job. See page 26.
• Skipped some Self-tests due to presence of devices in the sockets. OR • Self-test failed.	To run the Self-test fully, remove all devices from sockets, **lift the Actuator Bar**, and toggle the power switch Off and then On. If Self-test still fails, contact Data I/O.
Disk full. Remove obsolete statistics files.	Use a card with larger memory. End the job. Eject the card. Recreate the job on a larger card using TaskLink; **or**, delete statistic files using TaskLink. They are listed as dates for Job Sessions.
Adapter board not supported by software. Update software.	Update the system software (page 47) or contact Data I/O Technical Support.

For more information see www.dataio.com/support.

Key to Symbols

	Attention. Used for Cautions and Warnings.
	ESD warning. Electrostatic discharges might cause damage.
	Air pressure warning. Compressed air might cause damage.
	High voltage warning. Electrical volts might cause damage.
	An LED that is lit.
	An LED that is blinking.
	Dispose in a separately managed collection for electronic equipment (per Directive 2002/96/EC) or return to Data I/O.

	Power cord plug.
	Fuse.
	Power switch.
	Earth (ground)
	Protective Earth (Static ground)
	Network connection.
	Socket Adapter with socket 1 labeled.
	Fail; not okay.

RoHS for China

Notice of Restriction of Hazardous Substances pertaining to China:

有害物质或元素						
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr^{6+})	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
多插座压板	X	O	O	O	O	O
机壳	X	O	O	O	O	O
主机板	X	O	O	O	O	O
编程器支架	X	O	O	O	O	O
电缆	X	O	O	O	O	O
处理器	X	O	O	O	O	O

O：表示该有害物质在该器件所有均质材料中的含量均在 SJ/T 11636-2006 标准规定的限量要求以下。

X：表示该有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11636-2006 标准规定的限量要求。

Glossary

Auto Start–	**the feature that allows programming devices without pressing Start after closing the sockets.**
block–	**the four devices loaded into the Socket Adapter that get programmed as a group.**
Control Panel–	**the display and keypad**
DCA–	**Dry, clean air**
EPROM–	**Electrically Programmable Read-Only Memory**
ESD–	**electrostatic discharge**
HwCfgId–	**hardware configuration identification**
job card–	**a memory card with a job loaded onto it. It includes algorithms and may include statistics files. It may be assigned Supervisor Authority.**
LCD–	**Liquid Crystal Display**
LED–	**Light Emitting Diode**

PC–	**Computer**
PC Card–	**a PCMCIA card which is a PC Memory Card that meets the requirements of the International Association.**
Socket Adapter–	**a printed circuit board with sockets attached.**
Supervisor card–	**a PC card with Supervisor Authority set in TaskLink.**
TaskLink–	**a software package created by Data I/O for creating programming jobs and managing statistics.**
update card–	**a PC card with system software for updating FlashPAK II.**

For the Network menu abbreviations see page 11. ■

Correspondence

Many questions can be answered by visiting the Knowledge Base on our Web site. In your browser address line enter: www.dataio.com/support then click Knowledge Base.

Register and log in, or log in anonymously.

If you wish to contact Data I/O Technical Support or a service center see the next page. Please remember to include the following:

- **FlashPAK II Serial Number. It is printed on the back of your unit.**
- **The error message text if there is one.**
- **Device manufacturer and part number if device related.**

For the latest version of this guide, see Support > Manuals on our Web site.

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Technical Support

Contact your local Data I/O representative.

To find your local representative, visit
http://www.dataio.com/contact/repsearch.asp

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You can help us improve this guide with your feedback:
userdocs@dataio.com