



# iPICK Boss System

MANUAL

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**GENERAL DESCRIPTION  
of the  
iPICK SYSTEM**

Data Processing Services' iPICK System is an advanced automated picking system that increases the speed and accuracy with which invoices are filled. The system is made up of digital displays positioned at each bin which show the quantity to be picked. Pickers move down the line more rapidly because they are not distracted from their picking effort by having to repeatedly glance down at the invoice. The pick quantity is always displayed right at the bins, allowing picking personnel to concentrate on picking units.

Each bin on the tie-line has a separate display. A group of displays (a picking zone) is controlled by a zone master display. Each picker is responsible for a picking zone (a certain number of bins) or an invoice over the whole line. The display shows the quantity to be picked in copies or bundles/copies, and a led beacon lights up on only those displays with a quantity to pick. The bundles will appear in the first two positions on the display, and copies will appear in the last two positions with a colon separating them.

## TERMINOLOGY

### Input/Output Board (IO board)

These circuit boards are placed at the junction of abutting sections of back track. They are used to carry the data and power signals from one piece of track to the next.

### Repeater (485 board)

These circuit boards are placed at the very start of the signal path and then again at 128 display intervals. Their purpose is to amplify and condition the data and power signals.

\*There are two led activity lights on the 485 board.

??One led indicates the board has power, the other led indicates data activity. Need to clarify with Paul, maybe on light indicates send activity and the other indicates receive activity?? Expectatoin is 1 light is lit solid at all times and the other light flickers when there is activity. Both lights lit solid continuously indicates a failure of a display or a short on the two data rails.

### iPICK Display

These circuit boards are the meat and potatoes of the system. These show you what to pick.

### Power Supply

Lambda SWS600-12 power supplies provide 40 amp 12 VDC to power the bin displays.

## Procedures at a Glance

- Code P57, download invoice data from magazine system.
- Code P10, prepare for picking, drop titles from invoice, change bins, correct bundle counts, assign bundle bins.
- P12, start picking
- P21, optional, reports who has and hasn't been picked.
- P50, optional, set status, add notes
- P51, delete invoice data from iPick system.

## GENERAL SYSTEM INFORMATION

Full screen processing gives you a more visual interface to the system. The full screen mode of operation provides you with a full screen of data and the cursor will be stationed at the first data field to either add new or change existing data. Move the cursor to the field you want to add/change, key the data, and press the enter key. You can move the cursor from field to field by pressing the enter key, the arrow keys, or the tab keys. If you press the enter key without having keyed in any data, the field will remain unchanged. When you have completed the screen, press F9 to implement the changes.

Cursor movement is controlled by:

Down Arrow	Will move the cursor down one line on a screen with multiple records. If it is a scrolling screen, when the cursor is on the bottom line and the down arrow is pressed, the lines will all be moved up one and a new Line will display. If it is not a scrolling screen, after the last line displays, the cursor will jump to the first line.
Up Arrow	Moves the cursor up one line and acts just the reverse of the down arrow.
Tab Key	The forward tab key will move the cursor forward one data field at a (Right Arrow) time. When it gets to the end of a line it will go to the next line.
Back Tab	The back tab key will do the reverse of the (Left Arrow) forward key.
Enter Key	Same as Tab Key.

Screen movement is controlled by function keys:

F1	Go backward one screen.
F2	Reserved.
F3	Reserved.
F4	Reserved.
F5	Scroll data up/forward one page.
F6	Scroll data up/backward one page.
F7	Scroll data to the right.
F8	Scroll data to the left.
F9	Process the data entered or end code.
F10	Reserved
ESC	Cancel a screen without processing.

## LOGGING ON TO THE SYSTEM

The PC will be at the login prompt. The login name and password are always entered in lowercase letters.

Login:

Password:

The screen will bring up the DPS main menu. Press the Caps Lock key to activate uppercase letters. The DPS main menu will display “BUNDLE LINE XX” or “PICK LINE XX” depending on which line you have logged into.

## LOGGING OFF OF THE SYSTEM

At any of the DPS menus, type **EXIT**. The terminal will return to login.

## SHUT - REQUEST SYSTEM SHUTDOWN

The system shutdown closes all active operating system programs and prepares the computer to be powered off. You should never power off the computer without first doing a Shut. When the Shut is requested, the following will display.

List active users

user1	terminal id	user login time/date
-------	-------------	----------------------

Do you want to continue?

N - The system will return to the menu and the system shutdown will not take place.

Y - The system shutdown will begin.

Do you want the system to restart immediately?

N - Enter N to be able to power off the PC. When the system shutdown has completed, the terminal will display **\*\*Halt Completed\*\***. At this point you can turn off the power to the PC and all of the peripherals directly attached to it.

Y - This option is used when you want to reboot the PC without having to turn it off. When the shutdown has completed, the system will automatically begin rebooting and all terminals will come up to login when the system is back up.

## **RECEIVING PROGRAMS**

The following procedure should be used to receive programs from DPS.

Key DPS at the Main Menu.

1 - Start remote file transfer.

The system will dial DPS to receive the programs on your transmit queue.

2 - Review transmitted files.

The review will display the status of the transmission. There are 3 different status messages.

Talking - indicates that the remote file transfer is still in progress.

Caller Script Failed - indicates that the modem line disconnected before the remote file transfer was completed. Use #1 to dial up and continue the file transfer.

Transmission Successful - indicates that the file transfer is complete. The programs that were received will be listed on the screen. Use #3 to accept the received programs.

3 - Accept received files

Use this only after the review displays 'Transmission Successful.'

## PASSWORD PROTECTION

Password protection for the BOSS Picking System is based on the login name of the operator. After the operator logs on to the system, each time he enters a code, the program will check the Password File to verify that his user login is approved for entry into the code he is trying to access. If the operator is approved, he will go right into the code. If the operator is not approved, a message will display denying access, and he must press enter to return to the menu.

Using the code Pass, set up all codes you want password protected, delete any existing operator password, add/delete any codes set up as password protected for the operator, or add new operator passwords and set up codes the operator can request.

Step	Enter	Digits	Comments
1	Code PASS Set up security?	1	Y/N

If you answer yes, the following headings will display. Pick System Programs and Pick System Miscellaneous. Press enter on the heading of your choice to display all the codes within that heading. You can password protect the codes by placing a 'Y' next to the code description. Press F9 when you are finished.

2	Add/Change a password for a user?	1	Y/N (Enter defaults to yes)
3	Password	6	Use up to 6 characters

Enter the first password and press enter. Key in the operator's password again and the name of the operator. All codes that were flagged in 'Set Up Security' will display and allow you to setup security for the individual operator. Place a 'Y' next to the codes you would like the operator to have access to.

You are also given the option to delete an existing operator.

Press F9 when you are finished. Enter the next operator password or F9 to end. You will then be prompted:

4	Do you want a status list?	1	Y/N
5	Print protected codes only?	1	Y/N

The status list is a report showing all codes and whether or not they are password protected. If you select Y to print protected codes only, the status list will only print the codes that have been password protected.

**P07 - Import Zone Configuration Data**

This program is used to build the Zone Master Table by reading a CSV file. This is an alternative to manually building the Zone Master Table with the P15 - Zone Table function.

The import file is read from the directory /home/dps/vip/dataXX and the file must be named ZONELD.csv.

The file layout is:

P07 - IMPORT ZONE CONFIGURATION DATA

DO YOU WANT TO CONTINUE (Y/N):        Y

\*\* RECORDS UPDATED =    1

\*\* RECORDS IN ERROR =    0

**P08 - Bin Number Table (import)**

This program is used to build the Bin Number Table by reading a CSV file. This is an alternative to manually building the Bin Number Table with P09 - Bin Number Table.

The import file is read from the directory /home/dps/vip/import and can have any name. The import file layout is: Bin number 9(5), Display Address 9(5), Zone Number 9(3), Zone Master Display Flag X(1). Note about the Zone Master Display Flag, the value 'Y' indicates that the display is a zone master display, blank or no value indicates that the display is not a master display.

P08 - BIN NUMBER TABLE

FILE NAME TO IMPORT:

---

DO YOU WANT TO CONTINUE (Y/N)?        Y

ZONE NUMBER CANNOT BE ZERO            \_

## P09 - Bin Number Table

This program allows you to manually build or update the Bin Number Table.

- Zone Flag = Y indicates that the bin is a zone master display.

### P09 - BIN NUMBER TABLE

ADD/UPDATE (A/U): U

BIN NUMBER	DISPLAY ADDRESS	ZONE NUMBER	ZONE FLAG	TITLE NUMBER	TITLE NAME	DELETE (Y/N)
100	1	1	Y			N
101	2	1				N
102	3	1				N
103	4	1				N
104	5	1				N
105	6	1				N
106	7	1				N
107	8	1				N
108	9	1				N
109	10	1				N
110	11	1				N
111	12	1				N
112	13	1				N
113	14	1				N
114	15	1				N

**P57 - Get Invoice From Mag System**

This program copies the invoice download files from the magazine system to the IPICK system.

**P57 - GET INVOICE FROM MAG SYSTEM**

**CLIENT NUMBER:** Enter the DPS client number set up in Code EFTP.

**INVOICE FILE NAME:** Press F4 to display the invoice files available on the magazine system\* or key in the invoice file name. If the message 'Missing EFTP Record' displays, the client number entered is not set up in Code EFTP.

\*A maximum of 15 invoice file names display when F4 is done. Once that maximum is reached you will get the message that Code P51 needs to be run on the RS6000 to delete old files.

## P10 - Create Picking File

This program prepares the invoice download file for picking.

Important functions of this program -

- Move a title to a different bin
- Remove a title from the tie-line
- Update an incorrect bundle count.
- Assign a bundled title to a 'bundle bin'
- Prints tieline audit report

**You cannot "unchange" the bin, the above functions should be done carefully and only at the beginning of an invoice.** If you make a mistake or are only doing a test and you want to put the bin back to the original, use P51 - Delete Picked Invoice File to delete this invoice, reimport it with P57 - Get Invoice From Mag System and rerun P10 - Create Picking File.

P10 - CREATE PICKING FILE

INVOICE FILE NAME: \_\_\_\_\_

```

                                P10 - CREATE PICKING FILE
BIN   TITLE   TITLE           BUNDLE   NEW           BUNDLE
NBR   TITLE   NAME            SIZE     BIN           BIN
 508  95064   DEAD BEFORE DARK           511
 509  95068   TO BEGUILLE A BEAST
 510  94042   BLOODLINE                13

```

Move a title to a different bin by keying in the new bin number in the 'New Bin' column.

Remove a title from the tie-line by keying in the 'drop bin number' in the 'New Bin' column. The drop bin number is found in the P15 - Pick System Maintenance, #1 - Pick System Configuration screen.

Bundle Counts/Bundle Size can be corrected. Just key in the correct bundle count. Bundle counts can not be added if you forgot to key in the bundle count during the invoice run. You can only update a bundle count if the bundle count was sent in the invoice download file.

When bundle counts are sent for a title, the bin display will show the operator how many bundles and how many loose copies to pull. You can assign the bundle copies to a different bin. Then you can pull the loose copies from one bin and the bundle copies from a different bin.

Press ESC to end without processing. Press F5 to advance to the next page of data or press F6 for previous page.

'Process Complete' displays when P10 is finished.

**P10 - Tieline Report** prints when P10 completes its run. This report lists the retailer, retailer name, invoice number, route/sequence, number of picks and total quantity. The report totals by route, with route totals for total picks and total quantity. 'Total picks' is the sum of all records in the pick file for a retailer/reference number. This equates to the number of titles on the retailers invoice. Total quantity is the total number of copies on the invoice.

## P12 - BOSS Pick Processing

This is the program that does the work. The program records your progress. This means you can exit the program and when you run the program again, it will pick up where you left off.

### P12 - BOSS PICK PROCESSING

PICK FILE NAME.....:

The screen will prompt for "PICK FILE NAME". Key in the invoice download file name and press enter.

### P12 - BOSS PICK PROCESSING

```

PROCESSING USING FILE          INVOICE FILE NAME
FOR SECTION NBR
PICKING IS NOW ACTIVE

PRESS ENTER KEY TO STOP PICKING

```

When you start P12 for the first time on new invoice download file the screen will display 'PICKING IS NOW ACTIVE'.

1. All displays will display the iPICK logo, followed by the DPS logo, and then finally the display will show the customer's logo. Bin Number, Bipad Number, Title Name, and each display button will light in red, each zone master display in green.
2. Press the zone master display of each zone. Each Bin Display will show the item number of the item assigned to it as a test for correct pick line setup.
3. Press the button on each zone master display. The pick-ID/invoice number will display on the zone master for the starting invoice. All bin displays with the red beacon lit will have a quantity displayed to be picked. If the item does not have a pick, the beacon will not light up.
4. Pick/Pack/Press; picking is active, pull the product from the bins as indicated, pack the



Figure1End of Pick Graphic

4. product, press the light to confirm the pick, press the zone master display to advance to the next invoice.
5. When the picker comes to a bin display showing the end of pick graphic (figure 1), there are no more picks in the zone beyond that bin for the invoice being picked. \*If there are no items assigned to an entire zone for a Picking Session, when P58 creates the picking file, it will tell the system to ignore those zone when picking is active.
6. The 'stop' sign graphic (figure 2) displays for two conditions 1) Stop Sign and Green Light means you have missed a pick in the zone. You are not allowed to advance if you have not

cleared all of the displays. 2) Stop Sign and Yellow Light means you trying to advance the pick past the lead picker.



Figure 2- Do Not Advance The close box graphic (figure 3) is an optional graphic for users with more advanced warehouse automation. This graphic lets the operator know that the tote can bypass the rest of the tie-line and be sent directly to the QC stations for review.



Figure 3- Close Box **RESTART PICK PROCESS**

If the picking process is being brought up to continue after being terminated through operator control on the previous day without completing the session, after entering the pick file name, all zones will automatically be restarted with the same pick-ID they were on the previous day when the system was terminated.

### **OPERATOR CONTROL**

If picking is not completed at the end of the day or if picking needs to be stopped for any reason to be continued at a later time, press "Enter" on the PC to interrupt the picking processing. The following will display:

#### **T - TERMINATE PICKING PROCESS**

Enter "T" to end picking process. Remember, however, that the system will remember the Pick ID on each Zone Master display and can be restarted at any time as detailed above. Thus, for security reasons, it is best to use the T option if the picking area will be unattended.

#### **R - RESTART A ZONE AT A SPECIFIED CUSTOMER**

This will restart a zone master at a specific pick-ID number for a re-pick. This options is usually used if the zone master button is pressed twice by accident causing the picker to skip an invoice.

ZONE NUMBER: 9999

STARTING PICK-ID: XXXXXXXXX

### **L - ADVANCE THE LEAD PICKER**

If the "LEAD PICKER" option in the system configuration is set to "Y", the system will go into a follow-the-leader mode. This mode allows the lead picker to restart at any retailer number in the invoice run and have all remaining pickers follow his lead. For example, if the lead picker picks customer 1, 2 and 3 and then restarts at customer 5, the remaining pickers will automatically go to customer 5 after they have finished picking customer 3.

ZONE NUMBER: 9999

STARTING PICK ID: XXXXXXXXX

**NOTE:** You cannot advance the lead picker at the beginning of the file when the 8888's and title numbers are displayed. You have to clear these in all zones and then when all zones are on the first dealer, you can select the Lead Picker Option.

The Lead Picker function can operate differently depending upon how the field 'Maximum Allowed Advances' is set up in P80 option 3 Zone Master Setup. Those options are:

- A. If Maximum Allowed Advances is equal to 0 for all zones, then the "LEAD PICKER" option will not allow a picker to advance to the next pick-ID until all previous zones have advanced to that pick-ID. If a picker tries to get ahead, the system will send all 7's to the zone master display.
- B. If Maximum Allowed Advances is equal to 2 for all zones (except zone 1 should always be 0), then each zone can get 2 picks ahead of the previous zone but can not get ahead of the lead picker, zone 1.
- C. If Maximum Allowed Advances is entered as 9999, then that zone can go as far ahead of the lead picker as he wants, but when he gets ahead of the lead picker, all zones after that zone will no longer follow the lead picker.

### **N - NEW PICKING SESSION**

Enter "N" to start a new picking session. This will clear the lead picker table and then allow you to key in the lead picker zone and the starting pick-ID number. If you want to start at the beginning of the pick file, enter all 8's for the pick-ID number. Be sure all zones have stopped on the same pick-ID before selecting this option.

ZONE NUMBER: 9999

STARTING PICK ID: XXXXXXXXX

### **D - DROP A ZONE**

Enter "D" to drop a zone from picking on the tie line. This will put the zone selected into stand alone diagnostics mode and allow the other zones to continue picking until the

problem in the dropped zone can be corrected. This zone will have to be manually picked to keep up with the remaining zones.

#### **A - ADD BACK A DROPPED ZONE**

Enter "A" to add back a previously dropped zone. System will prompt for the zone number and the dealer number for that zone to start picking.

#### **P - PICK/NO PICK TITLE**

Enter "P" to pick/no pick a title. This option is used when Galley titles are included in the pick file but have not yet been received into the warehouse. The code will prompt for bin and title number. When this bin has picks, it will now display 0000. As picking continues, the bundle and loose copies are accumulated until the title is activated again by this option. When picking is completed for this file, use code P66 - Galley Copies Not Picked Report to determine how many bundles and copies are required for each route's deliveries for the unpicked quantities.

**NOTE:** On the download file from your host system, the type 2 record has to have the route number contained in the file for each dealer to print the quantity of unpicked titles by route.

#### **S - ENTER STOP PICK ID**

Enter "S" to stop the entire line on the same pick id (i.e. At the end of the day). The system will prompt for the pick id number. When each zone has picked this dealer/title number, the zone master display will return to 'DPS'.

### **P50 - Set Session Disposition**

This program is a electronic post it note and status display. It shows you the invoice files that have been downloaded to your system, and allows you to set the invoice status and leave a description about the status.

Use the program to keep track of the invoice file you are working on, and to leave notes for the next shift.

```

                P50 - SET SESSION DISPOSITION
INVOICE      SESSION  STATUS      DESCRIPTION
4300900
05150905    ON-HOLD    WAITING FOR SHIPMENT

```

*F4 at the status field displays the possible status*

Press the F4 function key with the cursor at the status field to display a listing of the possible status: INVOICE, CREATE, INVOICE COPIED, ON HOLD, WORKING, COMPLETE.

\*Note Create and Invoice Copied status were system generated status indicators, and are 'hang-overs' from former VIP system processes at SFID Harrisburg facility.

### **P51 - Delete Invoice Files**

This program is used to delete invoice download files after they have been completely picked.

```

                P51 - DELETE INVOICE FILES
INVOICE FILE NAME:      Enter the invoice file name to
                          delete, then press enter.

CONTINUE WITH DELETE? (Y OR N) Respond 'Y' to continue with
                                the delete.

```

### **P21 - Total Picked Invoices Report**

INVOICE FILE NAME: \_\_\_\_\_  
 PRINT DETAIL (Y/N)?

This report prints a summary of the total number invoices in an download file, the number of invoices that have been picked and the total number of invoices left to be picked. The detail option prints the summary data as well as on line per invoice in the download file. The detail record lists the retailer number and name, invoice number, route/sequence, and status (picked or not picked).

### **P92 - Bin Maintenance Report**

This program prints a report of data in the Title Adjustment file (ttladj). Data is written to the title adjustment file when changes are made in Code P53- Add/Delete Bins from File and P58 - Create Picking File. The report lists new bin, old bin, bundle count, status code, and either 'address' or 'controler/display', depending on the type of system (iPick vs old school display).

INVOICE FILE NAME: \_\_\_\_\_

### **P15 - Pick System Maintenance**

This program sets up the system parameters and is used to perform diagnostic tasks. The following options are shown when you enter this program.

1 - Pick System Configuration

This menu option is for configuration of system software parameters

## 2 - Diagnostics and Utilities

The functions within this menu are used for hardware diagnostics.

## 3 - Hardware Configuration

The functions within this menu are used to configure the pick system hardware.

## 4 - Zone Table

This menu option is used to setup the zone configuration.

## 2 - Diagnostics and Utilities

### 1 - Poll Displays

This option sends a request to the display to provide information back to the host computer.

#### P15 - PICKING ZONE DIAGNOSTICS

##### 1. POLL ALL MASTER DISPLAYS

Requests information back from all displays defined as a master display in the zone configuration setup

##### 2. POLL ALL DISPLAYS IN A ZONE

Requests information back from all displays from a particular zone. Prompts for zone number.

##### 3. POLL A DISPLAY

Requests information back from a particular single display. Prompts for display hardware display address. Enter 99999 to poll all displays.

#### CHOOSE A POLL TYPE (BY NUMBER)

### 2 - Send Data To Display

This option sends a data string shown on the specified display. Use display number 99999 to send data to all of the displays. The F2 through F7 function keys have been setup with predefined messages.

ENTER DISPLAY ADDRESS : \_\_\_\_\_

### 3 - Display Address

ENTER DISPLAY ADDRESS : \_\_\_\_\_

### 4 - Clear Display

This option sends the 'display cleared' graphic to the display. This is "----".

### 5 - Clock Display On/Off

Each display can show its internal clock. This option turns the clock on or off. Probably should leave this off as it will interfere with the other graphics.

### **6 - Invert Display Dark/Light**

This option toggles the display from light foreground over dark background to dark foreground over light background.

### **7 - Pixel Check**

This option instructs the display to activate each pixel on the LCD. The result should be a gray box.

### **8 - Display Graphics**

This option makes the displays light up in your choice of pretty colors and graphics.

#### **P15 - PICKING ZONE DIAGNOSTICS**

- 0 = OFF
- 1 = GREEN
- 2 = BLUE
- 3 = AQUA
- 4 = RED
- 5 = YELLOW
- 6 = PURPLE
- 7 = WHITE

ENTER LED COLOR BY NUMBER 0 - 7

ENTER THE 2 DIGIT GRAPHIC ID

- '00' - Client Logo
- '01' - DPS logo
- '02' - iPICK logo
- '03' - '----', display cleared graphic
- '04' - end-of-pick graphic (no parking)
- '05' - Do Not Advance graphic
- '06' - Close box graphic
- '07' - Florida Gators logo
- '08' - Florida Seminoles logo

### **9 - Display Version**

### **10 - Display Bin Numbers**

ENTER DISPLAY ADDRESS : \_\_\_\_\_

Use display address 99999 to check all displays or enter the hardware address of the individual display to be checked.

**11 - Display Titles**

PICK FILE NAME :

This function shows the bipad and title name of the titles in the bin displays.

Example

```
-----  
Bin Number  
BIPAD  
Title Name  
-----
```

Example with bundle count

```
-----  
Bin Number  
BIPAD  
Title Name  
Bundle Size Count  
-----
```



address that was assigned and add +1 to it. This will be the 'starting address' when you start the 'Initial Setup Mode' again.

#### **4 - Factory Defaults**

This option is part of the process of resetting all displays back to the factory default. All displays have the hardware address of 99998 when they leave the factory.

ENTER DISPLAY ADDRESS : \_\_\_\_\_

Enter 99999 at the prompt above. All displays will be set to hardware address "-1", and the displays will display the 'close box' graphic. Power cycle the displays, when power is restored to the displays they will revert to the factory default hardware address of 99998.

#### **5 - Set Contrast**

This option allows you change the contrast of the LCD display.

ENTER DISPLAY ADDRESS : \_\_\_\_\_

ENTER CONTRAST NUMBER 0-255

Use display address 99999 to change all displays or enter the hardware address of the individual display to be changed. The contrast can be adjusted from the low value of '0' to the highest contrast of 255.

#### **6 - Upload Graphic Bitmap**

This option allows you load a custom bitmap to be shown on the display.

ENTER DISPLAY ADDRESS : \_\_\_\_\_

ENTER NAME OF BITMAP FILE

## Diagnostics/Troubleshooting

The data flow of the iPick system is 'serial' communications. 'Serial' means that there is one send/transmit wire that takes the outgoing data all the way to the end of the line and one return/receive wire that brings the data back from the end of the line all the way back to the start.

P15 - #2 -#3 Display Address, This is a good place to start. Do address = 99999 to tell all displays to show their physical address. This command doesn't expect a response back from the displays, it sends only. The result you want is that all displays show their physical addresses. Bad results include individual displays not performing or entire sections after some point not performing. An individual display that does not respond probably just needs to be re-seated in the back track. Just pop it out and pop it back in. Run the #3 Display Address again, hopefully it works now.

An entire section not responding - this means a significant problem with the data flow. Check for unplugged cables and loose I/O boards (popped itself out of the track) and re-seat.

P15 - #2 - #10 Display Bin Number, This is a toss up between the option above as the best place to start. This option expects a response back from each display. The program sends the command to show the address to each bin display in the bin table. The program gets a response from the display, "I'm on now!", before sending the 'on' command to the next display. The 'on' command also lights the pick beacon with a bright red led. When all is good, you will see the red lights race from the start of the line to the very end of the line. If something is amiss, the red lights will race up to the display with the problem and then stop.

### Active Picking and 'Send Data Not Answered'

During active picking you may get the message 'Send Data Not Answered - address XXX bin number yyy', 'terminate yes/no'. Here is a rough guideline on how to recover with minimal downtime.

1) First just try 'terminate' = no. This may allow the program to overcome a very intermittent problem with reading the display that was listed. This problem may not come back on that display at all, or may not come back for a long time.

If problem comes back immediately on the same display

2) Go down to that display and pop it out and pop it back in, return to the console and respond "terminate" = N. Pulling out the display will cause it to reset. The pull out/put back in may eliminate a bad connection. \*At the same time the put back in has the potential to send a rouge data signal down the line which can cause the 485 boards to freeze and or cause nearby displays to lose there physical address.

If the problem comes back immediately, and or additional displays are acting up, you'll need to

3) terminate 'y' and power cycle the displays.

F1 f1 Fake Pick Testing

1st Up - Client logo

99999111|00| (99999 indicates all displays, 111 indicates all color leds (white), 00 is the graphic id for the customer logo).

2nd - All titles display.

P12 - BOSS PICK PROCESSING

PROCESSING USING FILE           06120900  
FOR SECTION NBR 07  
PICKING IS NOW ACTIVE

PRESS ENTER KEY TO STOP PICKING

00002100|1BIN 101|250263|1GUN DIGEST|  
00003100|1BIN 102|208458|1HOUSE BEAUTIFUL|  
00004100|1BIN 103|208833|1TOWN & COUNTRY |  
00006100|1BIN 105|208210|1FRESH HOME|  
00007100|1BIN 106|250263|1GUN DIGEST|  
00008100|1BIN 107|247009|1LIFE BEAUTIFUL |  
00010100|1BIN 109|246178|1LIFE STORY/SELE|

00002 - physical address

100 - color

Each line on display delimited by the pipe sign.

|1BIN 103| 1 indicates the font, the rest is what displays on that line.

POLL 00001 >B

This is pressing the zone master display of zone 1.

99001

STARTING PICK-ID           (XXXXXXXXXX):61

99001

00003100|0Quantity|34|000327366 CUST 00061|  
00004100|0Quantity|33|000327366 CUST 00061|  
00006100|0Quantity|35|000327366 CUST 00061|  
00008100|0Quantity|31|000327366 CUST 00061|  
00010100|0Quantity|36|000327366 CUST 00061|  
00011100|0Quantity|31|000327366 CUST 00061|  
00013100|0Quantity|34|000327366 CUST 00061|  
00014100|0Quantity|34|000327366 CUST 00061|

00016100|0Quantity|37|000327366 CUST 00061|  
00018100|0BUNDLES LOOSE |3 3|000327366 CUST 00061|  
00019100|0Quantity|32|000327366 CUST 00061|  
00020100|0Quantity|34|000327366 CUST 00061|  
00022100|0Quantity|31|000327366 CUST 00061|  
00023100|0BUNDLES LOOSE |3 8|000327366 CUST 00061|  
00024100|0Quantity|33|000327366 CUST 00061|  
00025100|0Quantity|31|000327366 CUST 00061|  
00026100|0BUNDLES LOOSE |3 2|000327366 CUST 00061|  
00027100|0BUNDLES LOOSE |3 8|000327366 CUST 00061|  
00028100|0BUNDLES LOOSE |3 2|000327366 CUST 00061|  
00029100|0Quantity|35|000327366 CUST 00061|  
00030100|0Quantity|31|000327366 CUST 00061|  
00031100|0Quantity|33|000327366 CUST 00061|  
00032100|0Quantity|32|000327366 CUST 00061|  
00034100|0Quantity|34|000327366 CUST 00061|  
00035100|0Quantity|33|000327366 CUST 00061|  
00036100|0Quantity|32|000327366 CUST 00061|  
00037100|0BUNDLES LOOSE |3 2|000327366 CUST 00061|  
00039100|0Quantity|31|000327366 CUST 00061|  
00040100|0Quantity|33|000327366 CUST 00061|  
00042100|0Quantity|31|000327366 CUST 00061|  
00044100|0Quantity|33|000327366 CUST 00061|  
00046100|0Quantity|313|000327366 CUST 00061|  
00048100|0Quantity|36|000327366 CUST 00061|  
00049100|0Quantity|33|000327366 CUST 00061|  
00050100|0Quantity|32|000327366 CUST 00061|  
00052100|0Quantity|35|000327366 CUST 00061|  
00054100|0Quantity|34|000327366 CUST 00061|  
00055100|0Quantity|33|000327366 CUST 00061|  
00056100|0Quantity|31|000327366 CUST 00061|  
00059100|0Quantity|31|000327366 CUST 00061|  
00064100|0Quantity|32|000327366 CUST 00061|  
00065100|0Quantity|33|000327366 CUST 00061|

P12 - BOSS PICK PROCESSING

00067100|0Quantity|31|000327366 CUST 00061|  
00069100|0Quantity|31|000327366 CUST 00061|  
00070100|0Quantity|31|000327366 CUST 00061|  
00073100|0Quantity|32|000327366 CUST 00061|  
00081100|0Quantity|310|000327366 CUST 00061|  
00082100|0Quantity|36|000327366 CUST 00061|  
00083100|0Quantity|35|000327366 CUST 00061|  
00084100|0Quantity|37|000327366 CUST 00061|  
00085100|0Quantity|33|000327366 CUST 00061|  
00086100|0Quantity|32|000327366 CUST 00061|  
00087100|0Quantity|33|000327366 CUST 00061|

00088100|0Quantity|33|000327366 CUST 00061|  
00089100|0Quantity|32|000327366 CUST 00061|  
00090100|0Quantity|31|000327366 CUST 00061|  
00091100|0Quantity|32|000327366 CUST 00061|