System Files

The system files used with PCPAK are described below:

CONFIG.SYS

When the computer is booted, DOS searches the root directory of the system disk for the CONFIG.SYS file. DOS is then configured according to the parameters in the file. BUFFERS and FILES commands are usually included in the CONFIG.SYS file. The BUFFERS command sets the number of disk buffers DOS allocates in memory. The FILES command sets the number of files DOS can have open at the same time.

The CONFIG.SYS file used with PCPAK is as follows:

```
DEVICE=C:\DOS\HIMEM.EXE  $ Y$
DOS=HIGH
FILES=40
BUFFERS=25
```

AUTOEXEC.BAT

When the computer is booted, DOS also looks at the AUTOEXEC.BAT file in the root directory of the system disk and executes the commands in it.

The AUTOEXEC.BAT file used with PCPAK is as follows:

```
TIME
DATE
SET PCPAK=-H4,7 -O  /H
CD PCPAK
PCPAK
```

Additional options which may be included in the SET PCPAK command (shown above) are:

—C   Provides a continuous beep until all alarms are acknowledged.

—I   Allows Integrated Facility Management System operation.

—U   PCPAK Terminal Mode operates in split-screen mode. See PC-EXP Manual for further information.

To change the name in the PCPAK header from Northern Computers, Inc. to another name (your company name, for instance), include the following command in the AUTOEXEC.BAT file after the SET PCPAK command:

SET PAKNAME=*Company Name*

**COMPLETE REBUILD / SOLUTIONS FOR DISK READ AND PARADOX ERRORS
VERSION 4.7, 5.0, AND 5.01:**

1. Check the conventional memory available by typing MEM at the C prompt.
   IT MUST BE 580K OR LARGER IN ORDER TO PROCEED ANY FURTHER.

2. Check the config.sys for its proper setup.

3. Check the autoexec.bat for its proper setup.

4. From the C prompt type CHKDSK/F or SCANDSK with DOS 6.0 or higher.

5. Enter into the Pcpak directory and delete the following files:
   a. DEL SDATA.DBF
   b. DEL *.NDX
   c. DEL CDATA.X*
   d. DEL CDATA.Y*
   e. DEL CDATA.PX
   f. DEL TMP*.DB

   (Cdata . DBF
     Default password)

DowN To HeRe

6. Enter back into Pcpak by typing PCPAK from the Pcpak prompt. It will prompt you
   to enter the setup data.
   A. First Screen :
      1. Type of machine (AT)
      2. Type of display (COLOR or MONO)
      3. 12 digit cards (Y or N)
      4. Type of disk (HARD or FLOPPY)
   B. Second Screen:
      1. Number of loops(1, 2, or 8)
      2. Baud rate loop 1(1200)
      3. Baud rate loop 2(1200)
      4. Time delay(9 or higher) 9
      5. Camera Control(Y or N)
      6. Alarm acknowledge(Y or N)
      7. Command acknowledge(Y or N)
      8. Global antipassback(N, 1, or 2)
   C. Third Screen - This is where the executable file, the database files, and the
      history files will be stored.
      1. Store data(C:\PCPAK)
      2. Store history(C:\PCPAK)
      3. Store program(C:\PCPAK)

NORTHERN COMPUTERS, INC.

PCPAK

QUICK REFERENCE GUIDE

CONTENTS

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LOGGING INTO PCPAK

Logging on:

Logging On

1. Press [F1];
2. Enter operator name in all capital letters (Use **MASTER** until you've had the opportunity to input system operators); [Enter]
3. Enter password in all capital letters (Use **NORTHERN** until you've had the opportunity to input system operator passwords.); [Enter]

TIMEZONE DATABASE

To enter a new timezone record in the timezone database:

Create

1. **Main Menu**; [F2] Edit Database; [F5] Timezones; [F3] Enter Record.

TIMEZONE NAME*	Enter a descriptive name for the timezone record. DO NOT begin with a number or use spaces in the name.
TIMEZONE	Enter timezone number 1–16
START TIME	Enter the start of the timezone in military time.
END TIME	Enter the end of the timezone in military time.
DAYS OF WEEK	Press the spacebar to alternately include or exclude each day of the week in the timezone. [ENTER] to the next day.
LINK	If you want this timezone to work in conjunction with another timezone, enter the timezone number.

* Required fields

To modify/edit a timezone record in the timezone database:

Modify

1. **Main Menu**; [F2] Edit Database; [F5] Timezones;
2. Bring up the time zone that you want to update;
3. [F2] Update Record;
4. Enter new data over the old;
5. [Enter] through all fields to save and update panels.

> See "Find Records" on page 8.

To delete a timezone record in the timezone database:

Delete

1. **Main Menu**; [F2] Edit Database; [F5] Timezones;
2. Bring up the time zone that you want to delete;
3. [F7] Delete Record.
4. [Y] for "Yes"; [Enter]

> See "Find Records" on page 8.

PCPAK ver 5.0 Quick Reference

To enter a new panel record in the panel database:

1. Main Menu; [F2] Edit Database; [F7] Panel Data; [F3] Enter Record.

PANEL*	If the number of loops is 1, enter the panel number as set on the DIP switches on the panel (1–63). Otherwise, enter the loop number, dash (–), and the panel number.
NAME*	Enter a descriptive name for the panel. DO NOT begin with a number or use spaces in the name.
TYPE	Enter the panel type options for this panel. If left blank, the panel defaults are E (egress) and M (multi-color reader LEDs).
TIMEZONES*	Enter a question mark (?) to get a pick list of timezone records. Then choose a timezone record from the list.
SITE CODES	Enter one or more site codes which are encoded in the cards, separated by spaces. Site Codes are optional.
CARD READER (1 & 2)	Enter a description for each reader.
INPUT POINTS (1–16)	Enter a description for each input point in use.
ST	Enter the shunt time in seconds, a space, and the timezone number to shunt the point. Enter zero for either item not used.
MESS	Enter Yes or No for input points to report their Alarm/Normal status.
DEB	Enter a debounce time in seconds that the input will always be shunted.
IO	Enter an output number and actions taken when an input changes state. The first action will be when the input reports Alarm.
II	Enter another input point number to be shunted when this input reports Alarm. Do not enter data into both IO and II.
MESS	Enter a question mark (?) to get a pick list of action messages. Then choose an action message to occur when this reports Alarm.
OUTPUT POINTS (1–14)	Enter a description for each output point in use.
PT	Enter a pulse time, a space, and a timezone number to control the output. Enter zero for either item not used.
OI	Enter an input number and actions taken when an output changes state. The first action will be when the output energizes.
OO	Enter an output number to follow this output. Do not enter data into both OI and OO.

*Required fields

To modify/edit a panel record in the panel database:

Modify

1. Main Menu; [F2] Edit Database; [F7] Panel Data;

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2. Bring up the panel that you want to update; | See "Find Records" on page 8.
3. [F2] Update Record;
4. Enter new data over the old. Press the spacebar to delete data;
5. [Enter] through all fields to save the changes;
6. Initialize the panels and send changes to it.

To delete a panel record in the panel database:

Delete

1. **Main Menu**; [F2] Edit Database; [F7] Panel Data;
2. Bring up the panel that you want to delete; | See "Find Records" on page 8.
3. [F7] Delete Record.
4. [Y] for "Yes"; [Enter]

ACCESS LEVEL DATABASE

To enter a new access level record in the access level database:

Create

1. **Main Menu**; [F2] Edit Database; [F3] Access Levels; [F3] Enter Record.

ACCESS LEVEL*	Enter a descriptive name for the access level record. DO NOT begin with a number, or use spaces in the name.
LINK	If you want this access level to also include the panel/reader list in another access level, enter that access level name here.
PANELS	Enter a question mark (?) to get a pick list of panels. Then choose a panel from the list. Up to 15 panels can be placed in an access level.
CODE	Enter "1" for reader #1, a "2" for reader #2, or a "3" for both readers.

* Required fields

To modify/edit an access level record in the access level database:

Modify

1. **Main Menu**; [F2] Edit Database; [F3] Access Level;
2. Bring up the access level that you want to update; | See "Find Records" on page 8.
3. [F2] Update Record;
4. Enter new data over the old;
5. [Enter] through all fields to save.
6. Initialize the panels to send the changes to them.

To delete an access level record in the access level database:

Delete

1. **Main Menu**; [F2] Edit Database; [F3] Access Level;
2. Bring up the access level that you want to delete; | See "Find Records" on page 8.
3. [F7] Delete Record.
4. [Y] for "Yes"; [Enter]

PCPAK ver 5.0 Quick Reference

To enter a new card record in the card database:

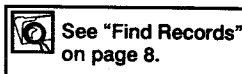1. Main Menu; **[F2]** Edit Database; **[F8]** Card Data; **[F3]** Enter Record.

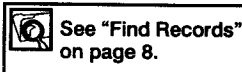| CARD NUMBER*	If the 12-digit option is enabled, enter a number of up to 12 digits. Otherwise, enter a number from 1–65,500
PIN NUMBER	If PINs (card/keycode combination) are used, enter the PIN to be used with a card read.
ACCESS LEVEL NAME*	Enter a question mark (?) to get a pick list of access levels. Then choose an access level from the list.
TIME ZONE NUMBER*	Enter a single timezone number to specify when the card will be valid at the panels/readers listed in the access level.
OPTION CARD	If the V (visitor card) option is enabled, enter the number of days (1–254) the card is allowed access. If the L (limited use) option is enabled, enter the number of times (1–254) the card is allowed access. Press ENTER for no restrictions.
ACTION MESSAGE	Enter the name of an action message that should occur when the card is swiped.
NAME*	Enter the name of the cardholder. Spaces are allowed.
NOTES 1 THROUGH 9	Enter additional information pertaining to the cardholder. Note field names can be changed in System Setup.

* Required fields

To modify/edit a card record in the card database:

1. Main Menu; **[F2]** Edit Database; **[F8]** Card Data;
2. Bring up the panel that you want to update;
3. **[F2]** Update Record;
4. Enter new data over the old;
5. **[Enter]** through all fields to save and update panels.

See "Find Records" on page 8.

To delete an card record in the card database:

1. Main Menu; **[F2]** Edit Database; **[F8]** Card Data;
2. Bring up the card that you want to delete;
3. **[F7]** Delete Record.
4. **[Y]** for "Yes"; **[Enter]**

See "Find Records" on page 8.

INITIALIZING PANELS

1. Main Menu [F4] **System Control** [F4] **Initialize Panel**

Initialize
Panel

PANEL NAME	Enter a question mark (?) to get a pick list of panels, and choose a panel to initialize from the list.
CURRENT TIME/DATE	Use the space bar to toggle between "Yes" and "No" concerning whether to send this information to the panel.
HOLIDAYS	Use the space bar to toggle between "Yes" and "No" concerning whether to send this information to the panel.
TIMEZONES	Use the space bar to toggle between "Yes" and "No" concerning whether to send this information to the panel.
ALARM POINTS	Use the space bar to toggle between "Yes" and "No" concerning whether to send this information to the panel.
PANEL INITIALIZE	IF YOU SEND THIS OPTION, YOU MUST ALSO SEND ALL OTHER DATA.
CARDS	Use the space bar to toggle between "Yes" and "No" concerning whether to send this information to the panel.
INTERLOCKING	Use the space bar to toggle between "Yes" and "No" concerning whether to send this information to the panel.
DEBOUNCE	Use the space bar to toggle between "Yes" and "No" concerning whether to send this information to the panel.
MESSAGE ENABLE	Use the space bar to toggle between "Yes" and "No" concerning whether to send this information to the panel.
SEND TEXT FILE	Enter a question mark (?) to get a pick list of text files, and choose a text file from the list. If no text files are to be sent, just ENTER past this.

NOTES:

1. *During initialization, you may see input points reporting from the panel in the Alarm Monitor. This is a normal part of panel initialization.*

2. *While sending cards, PCPAK will show a card count in the Alarm Monitor.*

3. *When initialization is finished, PCPAK will display the System Control Menu.*

GENERATING HISTORY REPORTS

1. Main Menu [F3] **Generate Reports** [F2] **Generate History Reports**

History
Reports

PCPAK ver 5.0 Quick Reference

START DATE	Enter the starting date for the report (example: 9/19/94 for Sept. 19, 1994). Just press ENTER for today's date.
(START) TIME	Enter the starting time for the report in military time. Just press ENTER to start at midnight.
FINISH DATE	Enter the ending date for the report. Just press ENTER for today's date.
(FINISH) TIME	Enter the ending time for the report in military time. Just press ENTER to end at midnight.
ALARM POINTS, CARDS, OPERATOR ACTIONS	For each type of transaction, use the spacebar to include it ("Yes") or exclude it ("No") from the report.
PANELS	1. Press ENTER for a report from all panels, or 2. enter a question mark (?) to choose an access level to report on, or 3. type the panel name, (space), and a reader number (1-3) to report on.
ALARM POINT	Press ENTER for a report on all alarm points, or enter a single point number to report on.
CARD NUMBER	Press ENTER for a report on all cards, or enter a card number to report on.
NAME	Enter a cardholder name to report on, or ENTER for a report on all cards.
NOTE #1 TO #3	Enter data to match in Note Fields 1-3, or ENTER for no restrictions.
FILE TO SAVE TO	Enter the complete path and filename to save the report in ASCII format, or ENTER to skip.
SCREEN, PTR, NEITHER	Use the spacebar to choose to send the report to the screen, printer, or neither.

BACKING UP / RESTORING DATA

To BACKUP data in the databases (DBF files only):

1. **Main Menu**; [F6] System Upkeep; [F2] Backup;
2. At the "Are you sure?" prompt, press [Y] ; [Enter]
3. At the "Hard Disk or Floppy" prompt, use the spacebar to choose the hard disk or a floppy disk in drive A as the target for the backup; [Enter]

Note: If you choose "floppy," YOU MUST HAVE A FORMATTED DISK inserted in drive A. PCPAK will not format disks, and will not backup to a B drive.

To RESTORE backed up data to the database:

1. **Main Menu**; [F6] System Upkeep; [F3] Restore;
2. At the "Are you sure?" prompt, press [Y] ; [Enter]
3. At the "Hard Disk or Floppy" prompt, use the spacebar to choose the hard disk or a floppy disk in drive A as the source for the backup; [Enter]

Note: If you choose "floppy," you must use the A drive. PCPAK will not restore from the B drive.

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COMPUTERS, INC.

PANEL CONTROL

Relay Control

To control a relay (door):

1. **Main Menu**; [F4] System Control; [F2] Panel Control; [F2] Output Point Control;
2. Enter a [?] to get a pick list of panels, then choose a panel from the list;
3. Enter the output (relay) number to control; [Enter]
4. Press [P] to pulse the relay, [E] to energize the relay, or [D] to de-energize the relay; [Enter]

NOTE: The state of the point will stay this way until a programmed action changes it.

Alarm Control

To control an alarm point:

1. **Main Menu**; [F4] System Control; [F2] Panel Control; [F3] Alarm Point Control;
2. Enter a [?] to get a pick list of panels and choose a panel.
3. Enter the alarm input point number to control; [Enter]
4. Press [S] to shunt the point, or [U] to unshunt the point; [Enter]

NOTE: The state of the point will stay this way until a programmed action changes it.

Buffer/ Unbuffer Panels

To buffer/unbuffer a panel:

1. **Panel Control Menu**; [F4] Buffer Panel or [F5] Unbuffer Panel;
2. Enter a [?] to get a pick list of panels, then choose a panel.

NOTE: The buffer option causes the panel to store all transactions, rather then sending them to the computer. The unbuffer option causes the panel to send its stored transactions to the computer.

FINDING RECORDS

Looking Through Records

PCPAK databases make it easy to find the record you're looking for. Use the following buttons to look through records one at a time.

[F5] Get First Record: Brings up the first record (alphabetically).
[F6] Get Next Record: Brings up the next record (alphabetically).

Searching for a Record

The [F4] Find Record command is useful for databases that contain a large number of records. From any database screen press [F3] (if you want to change the current search key), press [F4], type in the search criteria, and press [Enter].

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