



USER'S MANUAL

NCP Software



Packing List

Package 1 of 1 contains:

- 1- CD Version 2.08
- 1- Registration card

Application

Network Control Panel (NCP) Software (96L82) is used locally or remotely to monitor the L Connection® Network and setup programs with new day schedules and holidays to the NCP.

Holidays, programs, and day schedules can be created off-site, saved to a text file, transported to the job site, and uploaded to the NCP.

IMPORTANT - For serial port connection, PC to L Connection Converter Kit (96L78) is required to access the NCP. Connect the converter between the PC RS232 port and the L Connection network port on the NCP using the spiral phone cord provided with the converter kit.

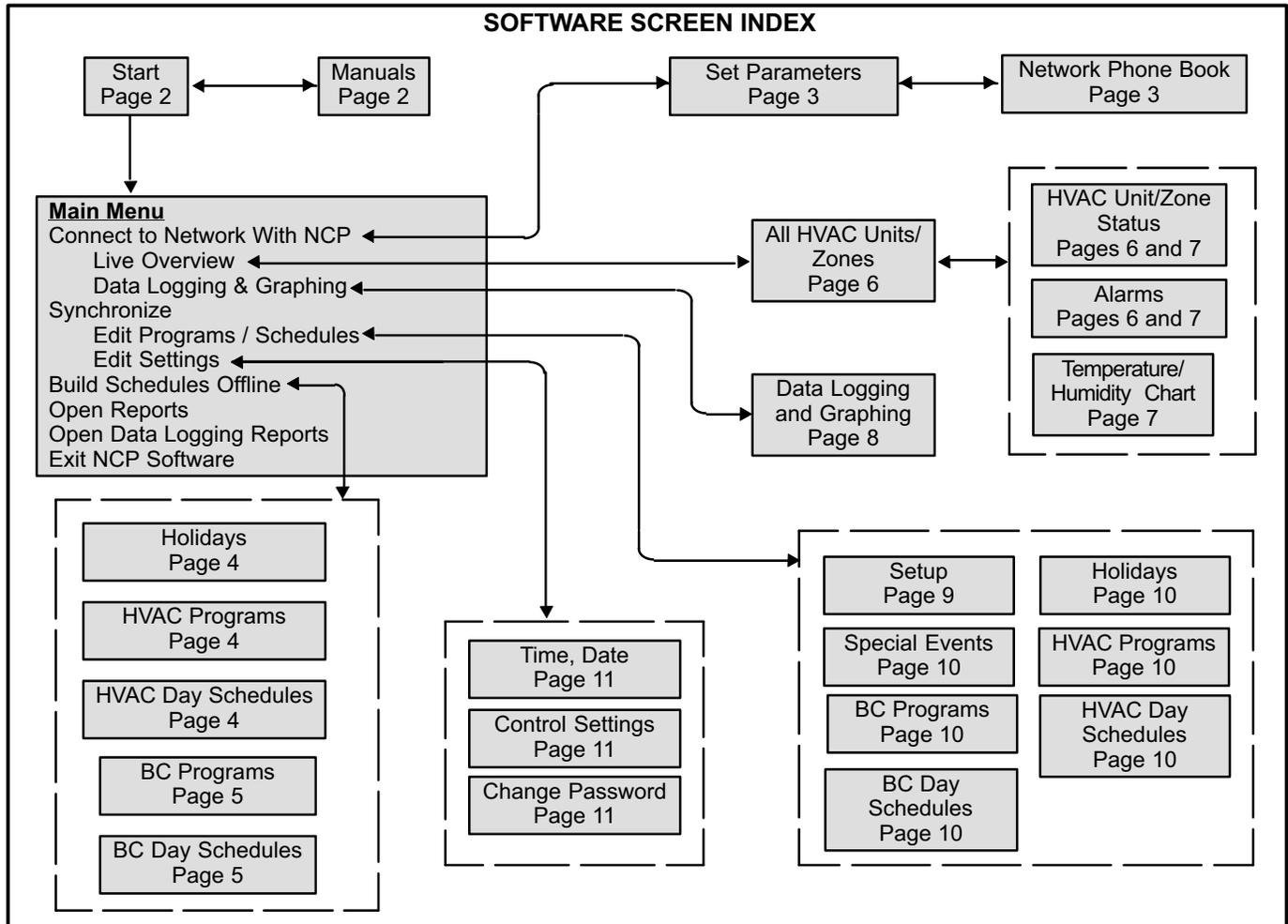
MISCELLANEOUS
505,088M
7/2006
Supersedes 504,420M

For dial-up connection, Modem Kit (94L62) is required to access the NCP. Connect the modem kit to the L Connection network bus and a phone line.

For TCP/IP connection, an L Connection Network Ethernet Converter (76M77) is required to access the L Connection Network.

IMPORTANT - If a password has been enabled at the NCP, the same password is required to download NCP programs and settings and clear NCP alarms.

Note - The discharge air temperature displayed in the Unit Status screen may not be accurate. Move the factory-installed sensor further downstream of the discharge air to get a more accurate discharge air reading.



Minimum System Requirements

The following are minimum PC system requirements when operating the Network Control Panel software:

- 1- IBM compatible PC with Pentium or higher processor.
- 2- Microsoft® Windows® 95, 98, Me, NT®, 2000, or XP.
- 3- 256 MB RAM (more memory may be required to run additional applications simultaneously).
- 4- Requires at least 20 MB of free hard drive space.
- 5- VGA or higher resolution monitor (screen resolution must be 800 X 600 or higher and 256 colors).
- 6- CD-ROM drive.
- 7- Mouse or compatible pointing device.
- 8- Serial COM port for serial port connections.
- 9- PC modem for dial-up connections.
- 10- Ethernet port for TCP/IP connections.
- 11- Microsoft Outlook for alarm email notification.
- 12- Microsoft Excel for datalogging and graphing.

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer or service agency.

Installation

Install the NCP software to a PC hard drive:

- 1- Place the CD in the CD-ROM drive and it will auto-run. If the CD does not auto-run, select **Start-Run**, browse the CD, and locate the "Setup.exe" file. Click **OK**.
- 2- Follow the installation instructions on the screen.

Running the Software

Select **Start - Programs - Lennox - Commercial Controls - L Connection Software** or double click the L Connection Software icon on the desktop if one has been created.

If the program is running correctly the following start-up screen will be displayed.

Click on **User's Manual** to view manuals; click on **Network Control Panel Software** to start the NCP software; or click **Exit** to exit program. Select **Network Control Panel Software** to run the software. The main menu will appear.

Note - Unit Controller Software will only appear if it is installed (purchased separately).



Main Menu

Only three selections are active at this time.

Connect to Network with NCP

Select **Connect to Network with NCP** when on-site, plugged into the network.

Build Schedules Offline

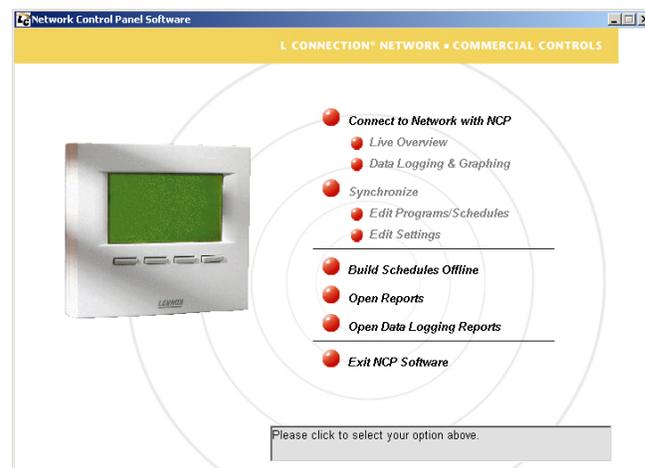
This selection is used to create new programs when not connected to the network. New programs may be saved to a file and uploaded to the NCP on-site at a later time.

Open Reports

Access previously created reports.

Open Data Logging Reports

Access previously created data logging reports in Excel.

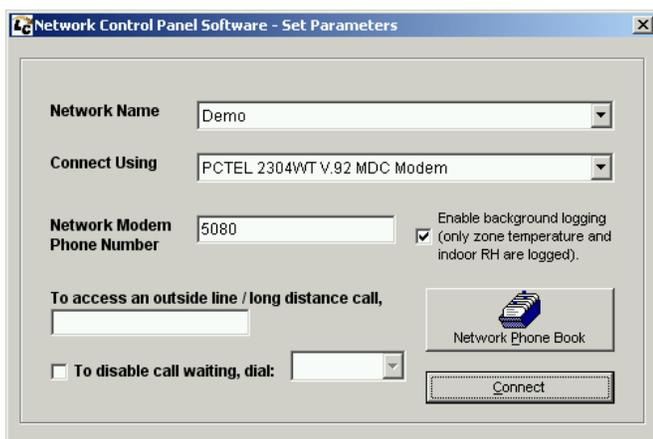


Connect to Network

Select **Connect to Network**. The Set Parameters screen will appear.

Set Parameters

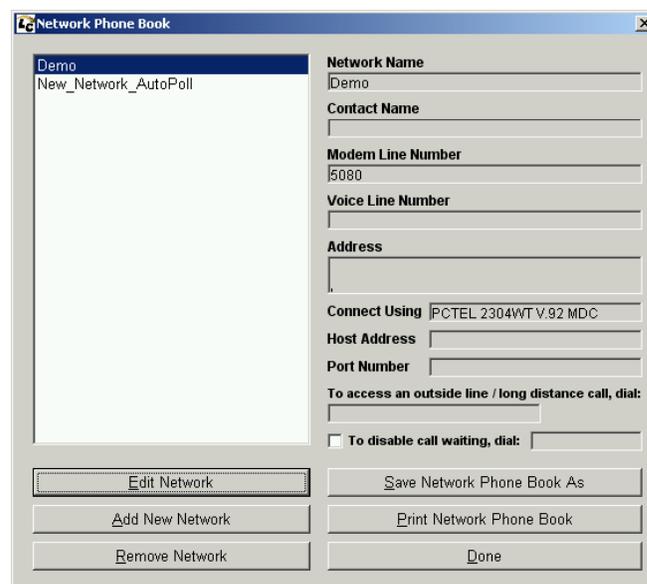
- 1- For serial port connections, select appropriate COM PORT from the **Connect Using** pull-down menu.
- 2- For dial-up connections, select appropriate modem from the **Connect Using** pull-down menu.
- 3- For TCP/IP connections, select TCP/IP from the **Connect Using** pull-down menu.
- 4- Select the network name to be accessed. If a network list has not already been created, only **New Network-Autopoll** will be displayed. Network name may be assigned in the Network List.
- 5- Background logging to create a zone temperature and relative humidity chart is enabled by default. Select the box to disable background logging if a temperature and humidity chart is not needed.
- 6- Enter or verify the phone number. Enter any additional numbers to access an outside line or long distance call and disable call waiting.
- 7- Click **Network Phone Book** to access the network phone book database.
- 8- Click **Connect** when ready to communicate. The main menu will appear.



Network Phone Book

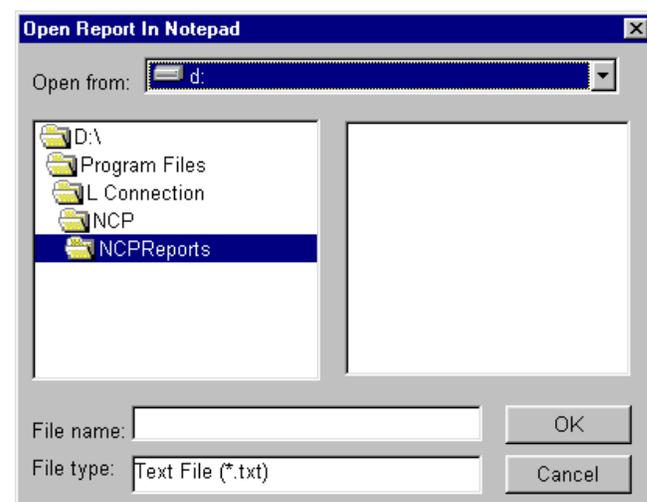
The Network Phone Book is used to store information on different networks (network name, address, phone number, and COM port used).

- 1- Select the appropriate network in the list on the left side. Click **Edit Network** to edit; select **Add New Network** to add a new network; select **Remove Network** to remove the network permanently; select **Save Network Phone Book As** to save the network phone book to a file; select **Print Network Phone Book** to print book.
- 2- Click **Done** when finished.



Open Reports

Select **Open Reports** from the main menu to view or print previously stored reports.

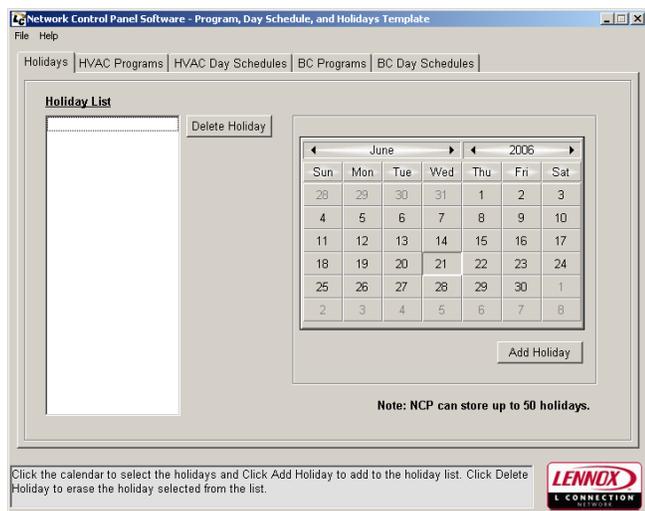


Open Data Logging Reports

Select **Open Data Logging Reports** from the main menu to view or print previously generated data logging reports.

Setup Program / Schedule Template

These screens are used to create, view, and edit Holidays, HVAC Programs, HVAC Day Schedules, BC Programs, and BC Schedules.

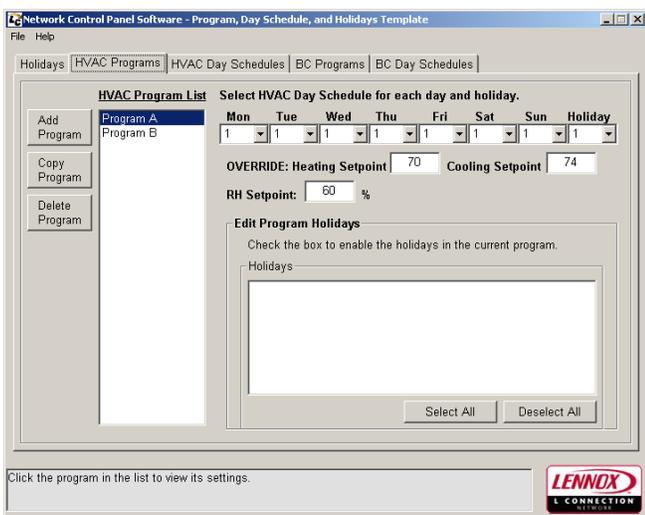


Holidays

- 1- Select **Holidays** tab to add or delete holidays. Refer to the following screen.
- 2- To add a holiday, change the calendar to the appropriate month, highlight the appropriate day, and click on **Add Holiday**.
- 3- To delete an existing holiday, highlight the holiday in the holiday list and click **Delete Holiday**.

HVAC Programs

This screen shows the programs, day schedules, and holidays for HVAC units.



- 1- Select the program in the Program List to view the settings.
- 2- Select **Add Program** button to add new programs.
- 3- Select **Copy Program** button to copy one program to another.

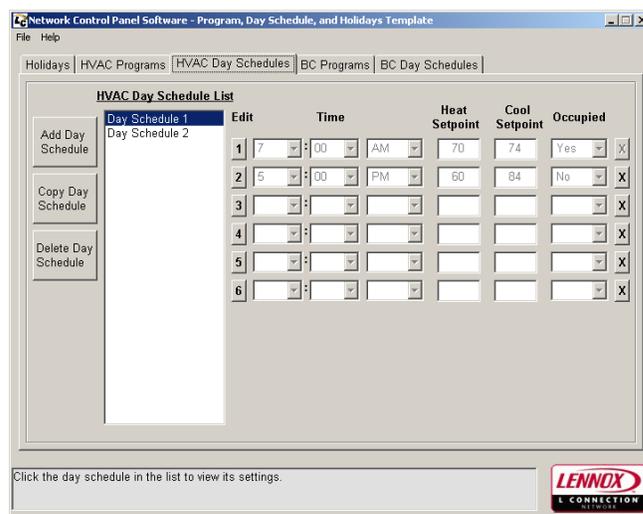
- 4- Select **Delete Program** button to delete the program from the list.

NOTE - Default programs A and B can be modified but not deleted.

- 5- To edit the day schedule, enter a new number or use the pulldown menu. Press the **tab** or **enter** key to save the new settings.
- 6- Once all Holidays, Programs, and Day Schedule settings are complete, select **File-Save NCP Program File** to save the new program to a file. Once on-site, refer to the **Edit Programs/Schedules** section to upload the new program to the NCP.
- 7- Select **File-Open NCP Program file** to view and edit an existing program file.
- 8- Select **File-Open Report for Programs, Day Schedules and Holidays** to view a previously saved report.
- 9- Select **File-Save Report for Programs, Day Schedules and Holiday As** to save the current report.
- 10- Select **File-Print Report for Programs, Day Schedules and Holidays** to print the report.

HVAC Day Schedules

This screen shows the day schedules for HVAC units.

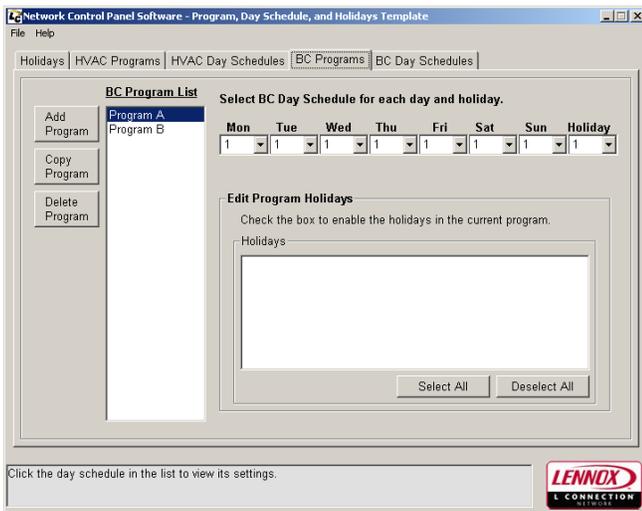


- 1- Select the day schedule in the Day Schedule List to view.
- 2- Select **Add Day Schedule** button to add a new day schedule.
- 3- Select **Copy Day Schedule** button to copy one day schedule to another.
- 4- Select **Delete Day Schedule** button to delete a day schedule (schedules 1 and 2 cannot be deleted).
- 5- Select the **Edit** button to the left of the time fields to edit the time, heat setpoint, cool setpoint, and occupied settings. Press the **tab** or **enter** key to save the new settings.
- 6- Select the **X** button to the right of the occupied field to delete the time in that row. The time in the first row cannot be deleted for all day schedules.

- 7- Once all Holidays, Programs, and Day Schedule settings are complete, Select File-Save NCP Program File to save the new program to a text file. **Once on-site, refer to the Edit Programs/Schedules** section to upload the new program to the NCP.
- 8- Select **File-Open NCP Program File** to view an existing program file.
- 9- Select **File-Open Report for Programs, Day Schedules and Holidays** to view a previously saved report.
- 10- Select **File-Save Report for Programs, Day Schedules and Holiday As** to save the current report.
- 11- Select **File-Print Report for Programs, Day Schedules and Holidays** to print the current report.

BC Programs

This screen shows the programs, day schedules, and holidays for Building Controllers.



- 1- Select the program in the Program List to view the settings.
- 2- Select **Add Program** button to add new programs.
- 3- Select **Copy Program** button to copy one program to another.
- 4- Select **Delete Program** button to delete the program from the list.

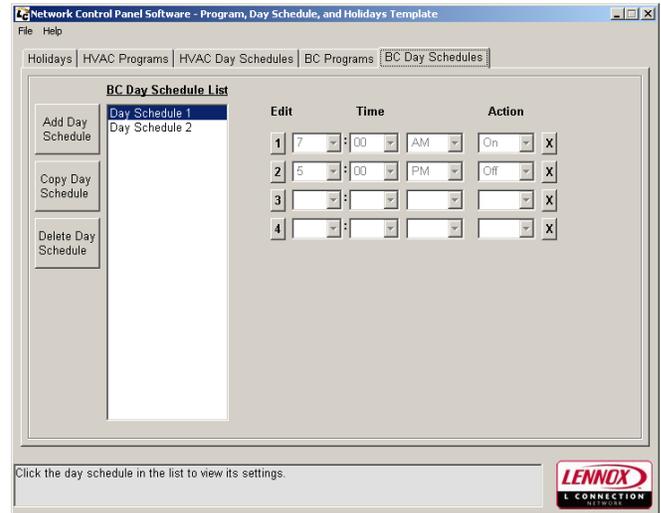
NOTE - Default programs A and B can be modified but not deleted.

- 5- To edit the day schedule, enter a new number or use the pulldown menu. Press the **tab** or **enter** key to save the new settings.
- 6- Once all Holidays, Programs, and Day Schedule settings are complete, select **File-Save NCP Program File** to save the new program to a file. Once on-site, refer to the **Edit Programs/Schedules** section to upload the new programs to the NCP.
- 7- Select **File-Open NCP Program** file to view and edit an existing program file.

- 8- Select **File-Open Report for Programs, Day Schedules and Holidays** to view a previously saved report.
- 9- Select **File-Save Report for Programs, Day Schedules and Holiday As** to save the current report.
- 10- Select **File-Print Report for Programs, Day Schedules and Holidays** to print the report.

BC Day Schedules

This screen shows the day schedules for Building Controllers.



- 1- Select the day schedule in the Day Schedule List to view.
- 2- Select **Add Day Schedule** button to add a new day schedule.
- 3- Select **Copy Day Schedule** button to copy one day schedule to another.
- 4- Select **Delete Day Schedule** button to delete a day schedule (schedules 1 and 2 cannot be deleted).
- 5- Select the **Edit** button to the left of the time fields to edit the time and action settings. Press the **tab** or **enter** key to save the new settings.
- 6- Select the **X** button to the right of the occupied field to delete the time in that row. The time in the first row cannot be deleted for all day schedules.
- 7- Once all Holidays, Programs, and Day Schedule settings are complete, Select File-Save NCP Program File to save the new program to a text file. **Once on-site, refer to the Edit Programs/Schedules** section to upload the new program.
- 8- Select **File-Open NCP Program File** to view an existing program file.
- 9- Select **File-Open Report for Programs, Day Schedules and Holidays** to view a previously saved report.
- 10- Select **File-Save Report for Programs, Day Schedules and Holiday As** to save the current report.
- 11- Select **File-Print Report for Programs, Day Schedules and Holidays** to print the current report.

Live Overview

Select **Live Overview** from the main menu. This screen shows all the HVAC units/zones/building controllers found in the network and gives an overview.

Note - This screen is in a "listening" mode and will update as the status changes.

AD	Type	Description	CSP	ZON	HSP	RH	CO2	Damper	OA Damper	RA1	DAT	OCC	Prog	Status
01	HVAC Unit	Zone 01	78 °F					259ppm		78 °F	58 °F	No	TSStat	Idle
02	HVAC Unit	Zone 01								96 %	79 °F	184 °F	Yes	Cooling
03	HVAC Unit	Zone 01	74 °F	77 °F	70 °F	24 %	494ppm			44 %	81 °F	51 °F	Yes	A
04	HVAC Unit	Zone 01	74 °F	76 °F	70 °F		393ppm			0 %	82 °F	80 °F	Yes	B
05	HVAC Unit	Zone 01						525ppm		0 %	76 °F	68 °F	Yes	TSStat
06	Building Controller	Zone 01								14 %	67 °F	56 °F	No	Man
07	HVAC Unit	Zone 01	74 °F	79 °F	70 °F	56 %	525ppm			0 %	80 °F	54 °F	Yes	Man
08	HVAC Unit	Zone 01	74 °F	79 °F	70 °F		259ppm			0 %	78 °F	56 °F	Yes	Man
09	HVAC Unit	Zone 01	74 °F	79 °F	70 °F	100 %	0 ppm	100 %		0 %	79 °F	56 °F	Yes	A
10	HVAC Unit	Zone 02	74 °F	80 °F	70 °F	43 %	0 ppm	100 %		0 %	80 °F	54 °F	Yes	B
11	HVAC Unit	Zone 03	78 °F	81 °F	75 °F	100 %	0 ppm	100 %		0 %	79 °F	56 °F	Yes	C
12	HVAC Unit	Zone 01	74 °F	81 °F	70 °F		251ppm			0 %	80 °F	54 °F	Yes	E
13	HVAC Unit	Zone 01	74 °F	81 °F	70 °F		243ppm			0 %	80 °F	55 °F	Yes	Man
14	HVAC Unit	Zone 01	74 °F	80 °F	70 °F		259ppm			0 %	80 °F	55 °F	Yes	Man
15	Building Controller	Zone 01								8 %		56 °F	Yes	A
16	HVAC Unit	Zone 01	74 °F	78 °F	70 °F	40 %	753ppm						Yes	A

- 1- View individual HVAC unit/zone/building controller status, alarm, and chart, by double clicking on the "Type" to the left of the appropriate address.
- 2- Select **File-Rename Network** to rename and save network information in the network phone book.
- 3- Select **File-Open Status Report** to view a previously saved report.
- 4- Select **File-Save Status Report As** to save a report.
- 5- Select **File-Print Status Report** to print a status report.
- 6- Select **File-Back to NCP Main Menu** to return to main menu.

Status, Alarms, and Chart

These screens show the status, alarms, and chart for the address highlighted in the NCP Network list only.

When the highlighted address is for an HVAC unit or zone, these screens show the status (compressors, number of stages, thermostat or zone sensor mode, etc.), alarms, and temperature/humidity chart for the zone selected.

Note - These screens are in a "listening" mode and will update as unit status changes.

Address: 09-Gas Electric RTU Controller Type: IMC 5.03

Note: This screen is in a "listening" mode and will update as status changes.

Buttons: Status | Alarms | Chart | Reset Controller | Send

Remote Demand Control Mode with Return Air Sensor backup

Status: Cooling

Compressor: [Indicator]

Heating Stage: [Indicator]

Blower: On

Economizer: None

New Alarm: None

Filter Timer: Check

Return Air Temperature: 78 °F

Discharge Air Temperature: 56 °F

Outdoor Air Temperature: 69 °F

RH Setpoint: 60 %

Zone 1 Status: Cooling Normal

Zone Sensor Temperature: 79 °F

Heating Setpoint: 70 °F

Cooling Setpoint: 74 °F

Occupied: Yes

Program: A

CO2: 0 ppm

RH: 100 %

Damper Position: 100 %

VAV Box Fan: Off

VAV Box Heat: Off

Click the HVAC/Controller in the list box on the left to view the HVAC/Controller status.

When the highlighted address is for a Building Controller, these screens show the status (outputs, temperatures, and analog inputs) and alarms of the Building Controller selected.

Address: 06-Building Controller Controller Type: BC 1.01

Note: This screen is in a "listening" mode and will update as status changes.

Buttons: Status | Alarms | Chart | Reset Controller | Send

Outputs:

Output	Program	Status
Output 1	Man	Off
Output 2	Man	Off
Output 3	Man	Off
Output 4	Man	Off
Output 5	Man	Off
Output 6	Man	Off
Output 7	Man	Off
Output 8	Man	Off

Digital Inputs:

Digital Input	Status
Digital Input 1	Off
Digital Input 2	Off
Digital Input 3	On
Digital Input 4	Off

Analog Inputs:

Analog Input	Value
Analog Input 1	2.6 V
Analog Input 2	10.0 V
Analog Input 3	7.8 V

Temperatures:

Temperature	Value
Temperature 1	31 °F
Temperature 2	-3 °F
Temperature 3	71 °F
Temperature 4	73 °F

Light Sensor: Dark

New Alarm: None

Click the HVAC/Controller in the list box on the left to view the HVAC/Controller status.

Status

- 1- View the status of other addresses by selecting a different address in the NCP Network list.
- 2- Select **File-Retrieve Alarms** to retrieve alarms. Alarms screen is not accessible before downloading alarms.
- 3- Select **File-Enable Alarm Email Notification** to setup the alarm email notification options.
- 4- Select **File-Open Status/Alarm Report** to view a previously saved status or alarm report.
- 5- Select **File-Save Alarm Report As (All Addresses)** to save an alarm report for all addresses in the network. Alarms must be retrieved from the NCP before this selection is available.
- 6- Select **File-Print Alarm Report (All Addresses)** to print an alarm report for all addresses in the network. Alarms must be retrieved from the NCP before this selection is available.
- 7- Select **File-Save Status Report As (All Addresses)** to save a report.
- 8- Select **File-Print Status Report (All Addresses)** to print a status report.
- 9- Select **File-Back to NCP Main Menu** to return to main menu.

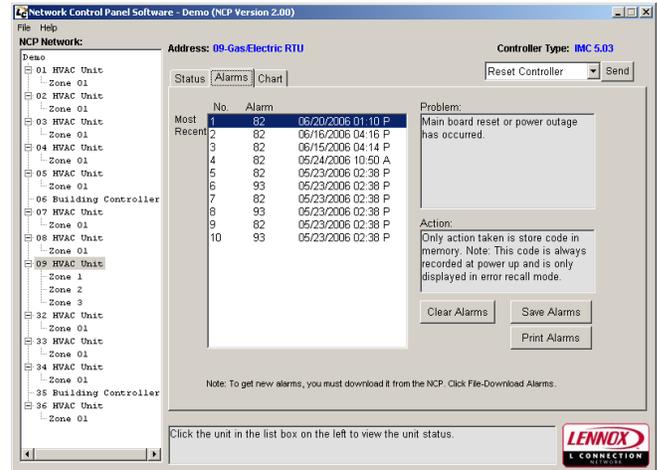
Note - The discharge air temperature displayed in the Status screen may not be accurate. Move the factory-installed sensor further downstream of the discharge air to get a more accurate discharge air reading.

Alarms

- 1- Select **File-Retrieve Alarms** from the Status screen before viewing alarms. Select the Alarms tab to view alarms.
- 2- Select the alarm to view a detailed description of the problem and the resulting action.
- 3- Highlight other addresses in the NCP Network list to view the alarms of other addresses on the network.
- 4- Select **Clear Alarms** to delete all alarms stored in the NCP memory for the unit highlighted in the NCP Network list. If a password has been enabled in the NCP, a prompt will request the password.
- 5- Select **Save Alarms** to save the current alarms to a text file.
- 6- Select **Print Alarms** to print the current alarms.
- 7- Select the **Status** tab to view the status.
- 8- Select **File-Open Status/Alarm Report** to view a previously saved report.
- 9- Select **File-Save Alarm Report As (All Addresses)** to save an alarm report for all addresses in the network. Alarms must be retrieved from the NCP before this selection is available.
- 10- Select **File-Print Alarm Report (All Addresses)** to print an alarm report for all addresses in the network.

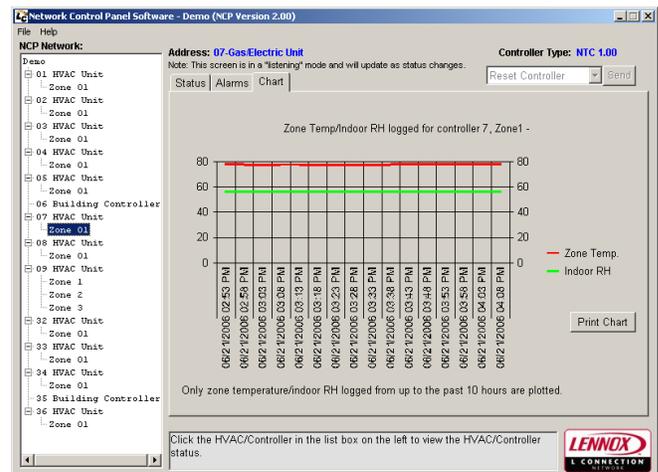
Alarms must be retrieved from the NCP before this selection is available.

- 11- Select **File-Save Status Report As (All Addresses)** to save a report.
- 12- Select **File-Print Status (All Addresses)** to print a status report.
- 13- Select **File-Back to NCP Main Menu** to return to main menu.



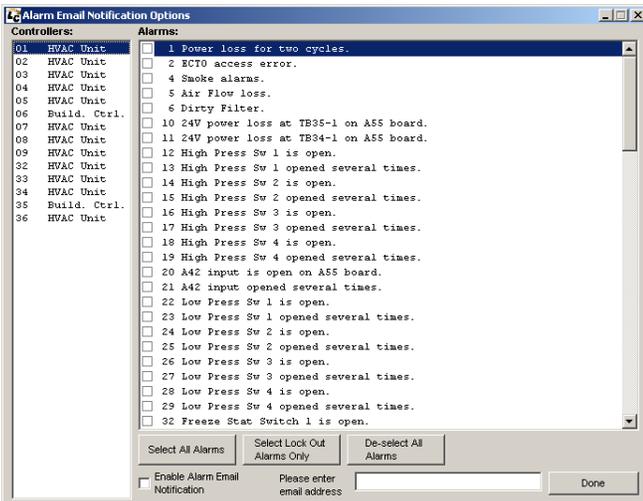
Chart

- 1- Select the Chart tab to view a log of zone temperature and relative humidity readings.
- 2- View the temperature and humidity charts of other units by selecting a different address in the NCP Network list.
- 3- The NCP software has to be running to create a chart. A chart will display up to 10 hours of temperature and humidity readings.
- 4- Select **File-Start/Stop Background Log (All Zones)** to start or stop the temperature and humidity log. Logging is enabled by default; if a chart is not needed it can also be disabled from the Set Parameters screen.

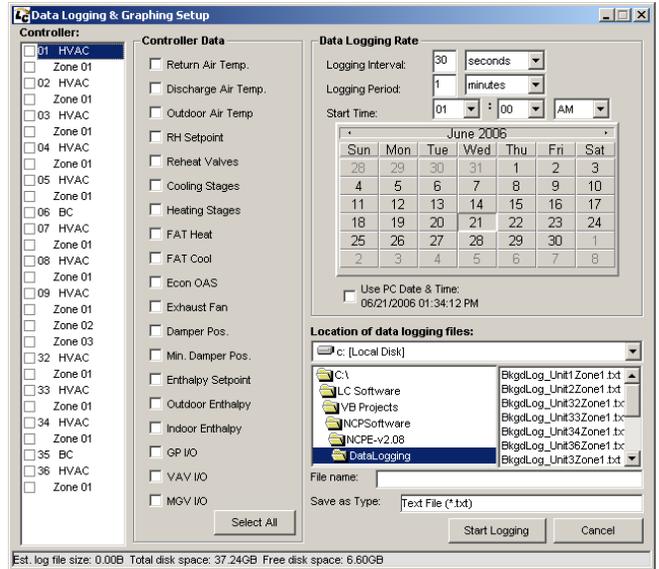


Alarm Email Notification

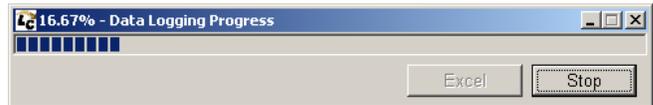
- 1- Highlight a unit controller to view the list of alarms. Select the alarms from the list to receive email notification when the alarm occurs for the highlighted controller. All alarms can be selected for the highlighted controller by clicking the **Select All Alarms** button. All the lockout alarms can be selected for the highlighted controller by clicking the **Select Lock Out Alarms Only** button.
- 2- Check the **Enable Alarm Email Notification** checkbox to activate the email notification feature.
- 3- Enter the email addresses where the alarm email notifications will be sent. Multiple addresses must be separated by a semicolon.
- 4- Click the **Done** button when finished.



Data Logging and Graphing



- 1- Select the data to be logged for the highlighted unit/zone.
- 2- Setup the data logging rate by choosing the logging interval, logging period, and start date/time. PC date/time can be used by checking **Use PC Date & Time** checkbox. This will start the data logging immediately after clicking **Start Logging** button.
- 3- Enter a filename for the data logging file.
- 4- Click **Start Logging** button to start logging data.
- 5- A progress bar shows the data logging status.



- 6- Logging can be stopped at anytime by clicking **Stop** button.
- 7- Click **Excel** button to view the logged data and graph.

Synchronize

Select **Synchronize** to retrieve settings, programs, schedules, and holidays from the NCP. If a password has been enabled in the NCP, a prompt will request the password.

Edit Programs/Schedules

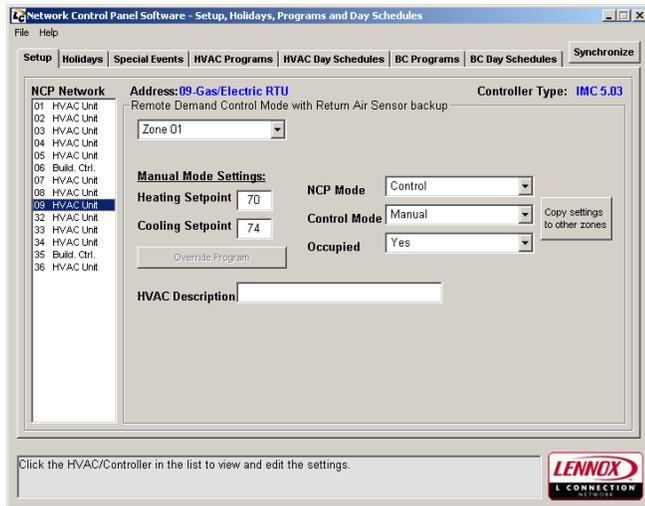
*Note - Select **Synchronize** from the main menu before accessing this screen.*

Setup

Select **Edit Programs/Schedules** from the main menu.

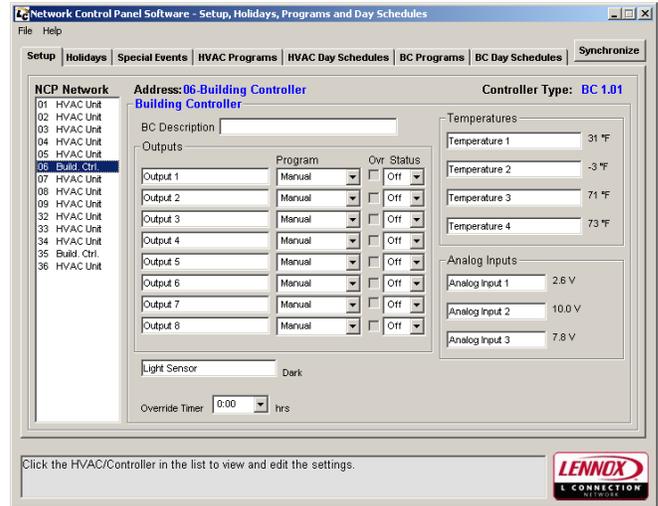
These screens show the zone setup for the address highlighted in the NCP Network list only.

When the highlighted address is for an HVAC unit, this screen shows the zone setup (sensor temperature, setpoints, NCP mode, control mode, etc.) of the HVAC unit selected. To access the zone setup on more than one zone, select a zone from the drop down box.



Note - This screen is a “snapshot” of the data available at the time of the synchronize.

When the highlighted address is for a Building Controller, this screen shows the status and setup (outputs, temperatures, and analog inputs) of the Building Controller selected.



Note - This screen is a “snapshot” of the data available at the time of the synchronize.

- 1- Select other addresses in the NCP Network List to view the Setup of other addresses on the network.
 - 2- Use the **tab** or **enter** key after changing a setting to save the new setting. The tab key is also used to toggle through the Unit Setup fields.
 - 3- Select **Synchronize** to send all changes to the NCP.
- IMPORTANT - Time and date should already be set at the NCP. If not, see Edit NCP Settings to set time and date.**
- 4- Select **File-Open NCP Program File** to load the programs from a previously saved file.
 - 5- Select **File-Save NCP Program File** to save the current programs to a text file.
 - 6- Select **File-Open Report for Status, Programs and Day Schedule** to view a previously saved report.
 - 7- Select **File-Save Report for Status, Programs and Day Schedule As** to save a report of all programs.
 - 8- Select **File-Print Report for Status, Programs, and Day Schedule** to print a report of all programs.
 - 9- Select **File-Exit** to exit the program. Make sure changes have been sent before exiting.

NCP Mode (HVAC Units)

This field displays and edits whether the NCP is set to control or monitor the unit. When "Control" is displayed, the NCP is controlling the setpoints. When "Monitor" is displayed, the NCP is monitoring the unit only and not controlling the setpoints.

NOTE - The monitor mode option is mostly for future use and in most cases this mode should be set to control. If used, the unit will operate on the IMC or NTC ECTO back-up setpoints.

When control mode is selected, programs can be assigned and manual setpoints can be changed.

NOTE - If the L Series unit is set in the local thermostat mode, the NCP can't be changed to the control mode. If the control mode is desired, the IMC must be set to the zone sensor mode by adjusting ECTO parameter 6.01. Refer to the IMC manual.

Control Mode (HVAC Units)

This field displays and edits which program is assigned to the unit. The program choice can be selected from the pull-down menu. The manual choice is selected for manual operation. If manual is selected, the setpoints in the "Manual Mode Settings" field will be used.

Override / Resume Program (HVAC Units)

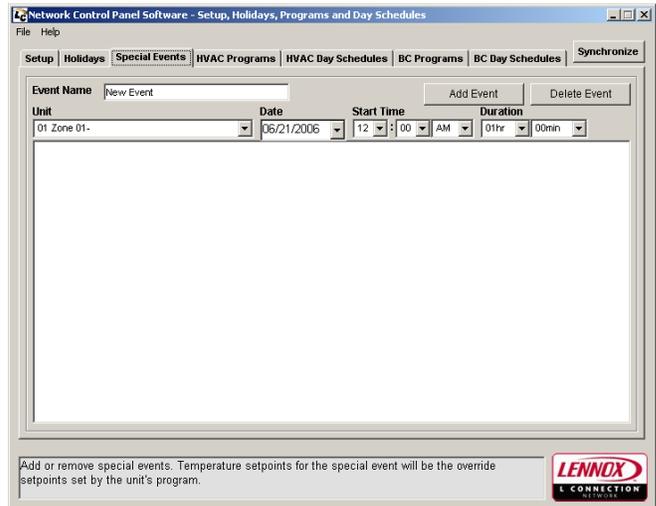
Toggle the Override/Resume Program button to allow or disallow the NCP to override program settings.

Click the Override Program button to change heating and cooling setpoints when control mode is running a program. "Override" will be displayed to the right of the program setting when override is enabled. Override range and length of time is set in the NCP Control Settings.

Click the Resume Program button to cancel override and resume running the assigned program.

Special Events

- 1- Select Special Events tab to add or delete special events.
- 2- To add a special event, name the event, select a controller, set the date, start time, and duration for the event, and click on Add Event.
- 3- To delete an existing event, highlight the event in the list and click on Delete Event.



Holidays, Programs, Day Schedules

Edit Holidays, Programs, and Day Schedules in the same manner as described in the Setup Program/Schedule Template section. Once all of the desired settings have been edited, select **Synchronize** to send all changes to the NCP. Select **Save NCP Program File** to save settings to file.

Edit Settings

Note - Select Synchronize from the main menu before accessing this screen.

Time, Date, Control Settings, Password

Select Edit Settings from the main menu. This screen shows the NCP time and date, control settings, and password options.

Note - This screen is a "snapshot" of the data available at the time of the synchronize.

Time, Date

- 1- Select each field to edit time and date.
- 2- Once all of the desired NCP settings have been edited, select **Synchronize** to send all changes to the NCP.
- 3- Select **File-Save Report for Control Settings As** to save a report of all setting changes to a text file.
- 4- Select **File-Print for Control Settings** to print a report of all setting changes.
- 5- Select **File-Exit** to exit the program.

Network Control Panel Software - Panel Control Settings

File Help

Time, Date Control Settings Change Password Synchronize

NCP Time: 01 : 25 : 29 PM

Current PC Time: 01:37:38 PM Match NCP Time, Date with PC Time, Date

NCP Date: Daylight Saving Time: Apr/Oct

June				2006		
Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Click the field to edit. When you finish, click the Synchronize button to send the changes to NCP.

Control Settings

This screen shows the NCP control settings (temperature units, override range, override timer, filter time, BC maximum override time, and BC setpoint recovery stagger).

- 1- Select each field to edit the control settings.
- 2- Once all of the desired NCP settings have been edited, select **Synchronize** to send all changes to the NCP.
- 3- Select **File-Save Report for Control Settings As** to save a report of all setting changes to a text file.

- 4- Select **File-Print for Control Settings** to print a report of all setting changes.
- 5- Select **File-Exit** to exit the program.

Network Control Panel Software - Panel Control Settings

File Help

Time, Date Control Settings Change Password Synchronize

Temperature Units °F

Override Range +/- 2 °F

Override Timer 2:00 hrs

Filter Run Time 30 days

BC Override Max 0:00 hrs

Recovery Setpoint Stagger 0:15 mins

Click the field to edit. When you finish, click the Synchronize button to send the changes to NCP.

Change Password

This screen shows the NCP password. The password can be disabled or changed at this screen.

- 1- Enter a new password and confirm using the same password.
- 2- Once all of the desired NCP settings have been edited, select **Synchronize** to send all changes to the NCP.
- 3- Select **File-Save Report for Control Settings As** to save a report of all setting changes to a text file.
- 4- Select **File-Print for Control Settings** to print a report of all setting changes.
- 5- Select **File-Exit** to exit the program.

Network Control Panel Software - Panel Control Settings

File Help

Time, Date Control Settings Change Password Synchronize

Current Password

Clear Change

New Password

Confirm Password

Done Cancel

Click the field to edit. When you finish, click the Synchronize button to send the changes to NCP.

Frequently Asked Questions

Question	Answer
<p>1 Software cannot establish a connection using TCP/IP.</p>	<p>1-Make sure there is not another PC connected to the same network.</p> <p>2-Check the LED (10MB Link/Activity LED for 10MB LAN, 100MB Link/Activity LED for 100MB LAN) on the L Connection network ethernet converter. It should be green if it is linked properly to the LAN. (Use the LED Indicator Table in the L Connection Network Ethernet Converter Manual for reference.)</p> <p>3-Ping the L Connection Network ethernet converter using the assigned IP address. If there is no response, consult the L Connection Network Ethernet Converter Manual to access the converter setup mode to make sure the IP address is set correctly.</p>
<p>2 PC has a USB port but no serial port.</p>	<p>A USB serial adapter can be used to convert the USB port to a serial COM port. In most cases, a CD is used to install the software before plugging in the adapter. After the adapter is installed, reboot the PC. Select the new COM port in the COM Port/Modem pull-down menu when connecting to the network. The following adapters are tested and recommended: USB Serial Adapter (www.deluo.com/1-877-885-9090) or Belkin USB/Serial Portable Adapter (part no. F5U409-CU from CompUSA).</p> <p><i>Important - Read the manufacturer's installation instructions carefully before setting up the adapter.</i></p>
<p>3 The year on the calendar displays "2075" instead of the current date when using the Setup Programs/Schedules Template under the Holiday tab.</p>	<p style="text-align: center;">Fix For Win 95, Win 98, or Win ME:</p> <p>1-Save mscal.ocx from the CD software folder into C:\Windows\system\ 2-Go to Start->Run 3-Enter regsvr32 C:\Windows\system\mscal.ocx 4-Select OK</p>
<p>4 When adding a holiday, run-time error "Automation Element Not Found" is displayed and the program crashes.</p>	<p>5-A window will display "D11RegisterServer in C:\Windows\system\mscal.ocx succeeded."</p>
<p>5 When accessing Edit Programs/Schedules or Edit Settings, error message "Some data is missing from the previous download" is displayed. Download NCP Settings and Programs is selected again and the error message remains.</p>	<p style="text-align: center;">Fix For Win NT, Win 2000, or Win XP:</p> <p>1-Save mscal.ocx from the CD software folder into C:\WINNT\system32\ 2-Go to Start->Run 3-Enter regsvr32 C:\WINNT\system32\mscal.ocx 4-Select OK</p>
<p>6 When accessing calendar control in Edit Programs/Schedules or Edit Settings, a runtime error "Automation Element Not Found" is displayed and the program crashes.</p>	<p>5-A window will display "D11RegisterServer in C:\WINNT\system32\mscal.ocx succeeded."</p>
<p>7 The program won't run because Telephony Application Program Interface (TAPI) is out of date.</p>	<p>This problem will only happen if using Windows 95. Run tapi2195.exe under the Software folder in the CD to update system TAPI. IMPORTANT: tapi2195.exe is for Windows 95 ONLY.</p>
<p>8 Accidentally run tapi2195.exe in operating system other than Windows 95.</p>	<p>Re-install the operating system.</p>
<p>9 The program won't view or link to the user's manuals.</p>	<p>Make sure Adobe Acrobat Reader is version 4.0 or higher. Adobe Acrobat Reader 4.05 (ar405eng.exe) can be found under the Software folder in the CD.</p>

10	NCP software can't find an existing NCP in the network.	<p>Serial Port Connections:</p> <ol style="list-style-type: none"> 1-Check the connection between the L Connection Converter and PC serial port. Check the connection between the L Connection Converter and L Connection network port. 2-Reset the NCP or wait five minutes before running the program again. 3-Make sure the PC to L Connection Converter is catalog number 96L78; other interface converters may not work properly. 4-Make sure the correct COM port has been used. 5-Restart the computer. <p>Dial-Up Connections:</p> <ol style="list-style-type: none"> 1-Make sure the correct modem is used. The modem kit connected to the L Connection bus must be 94L62; the PC modem recommended is a USR 56K Faxmodem (model number 005686-03, 3CP5610A, 3CP5699A, 005687-03, USR5686E, USR5610B, & USR5699B). 2-Make sure modems are installed correctly. 3-If the PC has more than one modem, make sure the appropriate modem is selected. <p>TCP/IP Connections:</p> <ol style="list-style-type: none"> 1-Check the connection between the L Connection Network ethernet converter and the modem converter. 2-Make sure the LEDs on the L Connection modem converter (near the terminal block) are blinking during communication. 3-Make sure the L Connection daisy chain network polarity is correct.
11	The modem won't dial.	Refer to the user's manual provided by the modem manufacturer for troubleshooting information.
12	Communication to the network is interrupted or the PC crashed when running the program.	Reset the NCP or wait five minutes before running the program again.
13	Incorrect discharge air temperature reading during heating.	Move factory-installed discharge air temperature sensor further downstream of discharge air.
14	The Status screen indicates two stages of heating when only one stage is operating.	Some units such as the 3-5 ton, only have a single stage gas valve. Disregard the second-stage circle.

For further assistance contact Lennox Technical Support at 1-800-4-LENNOX (1-800-453-6669).

Worksheets

For convenience and future reference, use the following tables when determining address descriptions and BC Input and Output names. Refer to the Setup screen in the Edit Programs/Schedules section. Make copies of the blank tables as needed.

HVAC Address Description

Address	Description (20 character maximum)
01	
02	
03	
04	
05	
06	
07	
08	
09	
10	
11	
12	
13	
14	
15	
16	

Address	Description (20 character maximum)
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	

BC Address Description and Input/Output Names

Address _____ BC Description (20 character maximum) _____			
Output No.	Output Name (14 character maximum)	Input No.	Temperature Input Name (14 character max.)
1		1	
2		2	
3		3	
4		4	
5			Analog Input Name (14 character maximum)
6		1	
7		2	
8		3	
		Light Sensor	