IBM

Home Director Owner's Manual

Second Edition May 1999

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General Information

Intended use.

The IBM Home Director system (hardware and software) is intended for use in standard residential construction. Supported system functions are listed in the IBM *Official Published Specification* for Home Director.

The Home Director system is not intended for commercial use. Certain types of equipment should not be used in conjunction with the Home Director system. Examples of these devices include, but are not limited to, medical equipment (heart monitor, dialysis, oxygen equipment, etc.) and critical environmental systems (chemical exhaust fans, waste control systems, freeze protection systems, etc.). Additional user precautions should be taken where excessive hot or cold temperatures could result in potentially harmful conditions for individuals.

Important Notice.

All components in the Home Director system have been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult an IBM authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from IBM authorized dealers. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

All components in the Home Director system comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) these components may not cause harmful interference, and (2) these components must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

International Business Machines Corporation
New Orchard Road
Armonk, NY 10504
Telephone: 1-919-543-2193

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conform à la norme NMB-003 du Canada.

Safety Information

To avoid possible hazards due to fire or electrical shock, or damage to the unit, do not touch any cables or perform installation, maintenance, or reconfiguration of this unit when there is lightning in the area.

Do not attempt to undertake actions other than those specifically described in this *Owner's Manual*. This is particularly true if you try to service or repair the power supply, (if included) or cables. Always refer service or repairs to qualified service personnel. For further details concerning option installation, configuration, or repair, please refer to IBM document #SD21-0030-04.

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Highlighting

There are several ways that text is highlighted in this book. Each highlighting convention has a specific purpose.

Highlight	Purpose
Bold	Bold font is used to identify items on the screen which you should click or double-click. Bold font is also used in headings, table titles, and numbered lists.
`Example`	Example font is used to show text that you need to type from your keyboard.
Italic	Italic font is used to show proper names of programs or books. Italic font is also used in table footnotes and side notes.
"Quotes"	Quotation marks are used to identify window, screen, and heading names.
<u>Underline</u>	Underline font is used to call special emphasis to a particular word or instruction.

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Chapter 1: License Agreement

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International Business Machines Corporation   Armonk, New York 10504

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Chapter 2: Hardware

Using the Home Director hardware

This section gives you an overview of the major system components that come with a basic installation and how you can use them. If you need additional information about a particular component, please refer to the documentation that came with it (if available).

System Components

Component	Description
Home Network Controller Cabinet	Cabinet housing the Home Director Dedicated Computer, Uninterruptible Power Supply (UPS), HVAC Controller, Video Modulator, and Infrared (IR) remote control receiver.
Home Network Connection Center	Cabinet housing the telephone, video, camera, Web Point, Ethernet, and power distribution modules.
Remote control	Hand held device used to interact with the Home Director channel.
Thermostat Wall Display	Digital thermostat controls you can use to manually control the temperature.
Dimmer Switches	Switches you can use to have manual or automated control for on/off and dimming of lights.
4 Button Wall Controller Switches	Switches you can use to have manual or automated control of lighting and/or up to four pre-programmed routines.

Using the Home Network Controller

The cabinet has a key lock on the outside. You should use the lock to prevent unauthorized access to the cabinet and to prevent cables from accidentally being unplugged.

We recommend that you have a copy of the key made. Be sure to store the key in a safe place.

Under normal conditions, you will be able to use the Home Director system without needing to open Home Network Controller cabinet. If you have problems with the Home Network Controller, you should contact your IBM Authorized Home Systems Integrator (Integrator).

Home Network Connection Center

You may need to open the Home Network Connection Center to redirect services (for example, changing telephone or video wires). If you have problems with the system, you should follow the instructions in "Troubleshooting" on page 37.

Using the remote control

You can use the Home Director remote control in any room of your home that has a television and an Infrared receiver connected to the Home Network Controller. The remote control has these features:
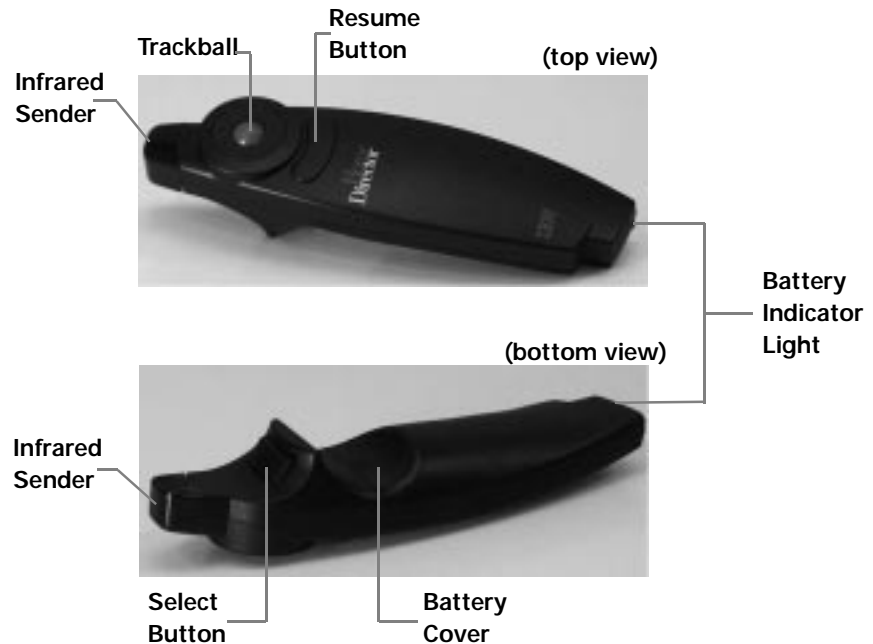
Feature	Description
Infrared sender	The infrared sender is located on the front of the remote control. This sender communicates the remote control signal to the infrared target located near your television.
Trackball	The trackball is located on the top of the remote control. Use the track ball to move the on-screen highlight to the button you wish to use.
Select button	The Select button is located on the bottom of the remote control. Use the button as the primary way to select an object on the screen.
Resume button	The Resume button is located on the top of the remote control. Use the button to bring the remote control out of its power saving mode if it has not been used for one minute or longer.
Battery cover	The battery cover is located on the bottom of the remote control. It protects the batteries.
Battery indicator light	The battery indicator is located on the back of the remote control. The light is lit when the battery power is low.

The remote control allows you to interact with the Home Director channel. To use the remote control, follow these instructions:

1 Switch your television to the channel that has been assigned to the Home Director channel.

The Home Director main menu displays and looks similar to this:

Note

The Home Director remote control operates even if you have not switched your television to the Home Director channel. Make sure that the remote control is stored in a safe place to avoid accidental configuration changes.

2 Hold the Home Director remote control so that the infrared sender is pointed toward the infrared target. The target should be located on or near the television.

3 Use your thumb or finger to slowly move the trackball. The on-screen highlight moves around the screen in the direction you move the trackball.

To select an item on the screen, click the Select button on the bottom of the remote control.

To change the remote control batteries:

1 Hold the remote control in one hand so the battery cover is facing up.

2 Place the thumb of your other hand in the indentation on the cover where you see the word "OPEN".

3 Gently pull the battery cover toward the back of the remote control until it unlocks and slides off.

4 Remove the batteries from the battery compartment.

5 Insert two AAA type batteries into the battery compartment. Make sure the "+" symbol printed on the battery matches the "+" symbol on the inside of the battery compartment.

6 Replace the battery cover:

a Align the three tabs in the cover with the grooves on the remote control.

b Gently slide the cover toward the front of the remote control until the tab locks into place.

Power saving mode:

The remote control has a power saving feature to preserve battery life. If you do not use the remote control for one minute or longer, it automatically switches into power saving mode. When the remote control is in this mode, you cannot move the on-screen highlight or click with the left mouse button.
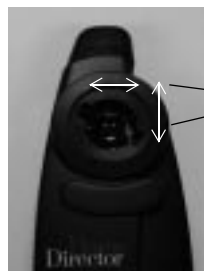
To "wake up" the remote control, click the Resume button on the top of the remote. The remote control resumes normal operation.

Cleaning the remote control.

If the on-screen highlight on the Home Director channel moves only in one plane (horizontally or vertically) or is sluggish, you may need to clean the trackball in the remote control.

To clean the remote control:

1 Remove the batteries from the remote control by sliding the bottom of the remote back.

2 After you remove the batteries, turn the remote control over and hold it in one hand with the front of the remote control pointing away from you.

3 Take a ball point pen and insert the pen tip into the small indentation located in front of the trackball.

4 Turn the cover counter clockwise until it stops (about 1/2 inch).

5 Turn over the remote control into your other hand to remove the trackball.

6 Clean the trackball with a small amount of mild detergent in water and dry it with a lint free cloth.

7 Place the trackball on the cover so that it does not roll.

8 Clean the two plastic rollers inside the socket by gently rubbing each roller perpendicular to the roller with a cotton swab dipped in isopropyl alcohol. Rotate the rollers to ensure that the entire roller is cleaned.

Brush cotton swab in direction of arrows

9 Make sure that the inside of the socket is dry before replacing the trackball into the socket.

10 Place the cover on to the remote control so that the indentation is aligned with the notches. The cover should fit into place so that it is flush with the top of the remote control.

11 Take a ball point pen and insert the pen tip into the small indentation and turn clockwise (right) until it stops (about 1/2 inch).

12 Replace the batteries.

Using the Home Director hardware

Using the thermostat wall display

The thermostat wall display allows you to manually control the temperature in your home. You can use the buttons on the front of the wall display to:

- Raise or lower the temperature

- Change the thermostat mode

- Change the fan mode

The thermostat wall display looks like this:

To raise or lower the temperature:

Before you begin, make sure the current temperature is visible.

- Press the △ button one time to view the set point, or target temperature. Press the button again to raise the set point temperature one degree.

- Press the ▽ button one time to view the set point temperature. Press the button again to lower the set point temperature one degree.

To change the thermostat mode:

You can choose from the following modes:

- "O" - Off

- "C" - Cool

- "H" - Heat

- "A" - Automatic

When you press the mode button once, the current mode displays. If you press the button again while the current mode is displayed, the system switches to the next mode. The system stays in the last mode displayed on the screen.

To change the fan mode:

You can choose to have the fan stay on all the time or come on automatically. When you press the fan button once, the fan turns on. If you press the button a second time, the fan is set to come on automatically.

Changing the offset value on the thermostat wall display

The current temperature from the internal digital temperature sensor displays on the thermostat wall display. The sensor has an accuracy of ±1°F (±.5°C). You can adjust the offset value number for the temperature on the thermostat wall display.

Understanding the offset value.

The offset value is a number from 0 to ±7 that you can use to adjust the temperature that displays on the thermostat wall display. The factory default is usually 0 (zero), but may be set to a factory offset also. The offset value number is added to the temperature of the internal digital temperature sensor and the adjusted temperature then displays.

For example, if the display shows 70 degrees but you want the temperature to display 72 degrees instead, you would change the offset value by increasing it 2 degrees. If the offset value was 0 degrees, then the new offset would be 2 degrees, which is the new offset value number that displays in "change offset" mode on the thermostat wall display.

Note: To increase or decrease the temperature in the home, follow the instructions in "To raise or lower the temperature:" on page 11.

Viewing and changing the offset value.

To view and change the offset value, perform the following steps:

1 To switch to "change offset" mode, press and hold the MODE button and then press the FAN button until "CO" displays.

2 Release the buttons and the current offset value number displays. The offset value number is usually 0 (zero) but the maximum range is ±7.

   Note: If you are viewing the offset value and do not make any changes, the current temperature automatically displays after 20 seconds of no activity.

3 Determine how many degrees you want to change the temperature offset value number (maximum range is ±7 degrees).

4 Adjust the offset value by pressing the UP or DOWN button. Each press of the UP button increases the offset by 1 degree. Each press of the DOWN button decreases the offset by 1 degree. The offset number displays and changes accordingly as you press the UP or DOWN button.

5 When you are finished adjusting the offset value, the thermostat wall display automatically stores the new offset number. The current temperature displays after 3 seconds of no activity.

The new temperature offset is calculated and displays on the next temperature update cycle. It can be several seconds before you see the temperature change.

Using a dimmer switch

A dimmer switch controls a single light. You can manually turn on a light by pressing the switch or automatically turn on a light with the Home Director channel. You can also brighten or dim an incandescent light. A dimmer switch has these features:

Safety switch   **Indicator light**

To manually turn the light on or off:

1 Select the switch for the light you want to turn on or off.

2 Press and release the top of the switch to turn the light on.

3 Press and release the bottom of the switch to turn the light off.

When the switch is turned off, the indicator light turns on. This light can help you locate the switch if the room is dark.

To manually brighten or dim an incandescent light:

• To brighten the light, press and hold the top of the switch until the light brightens to the setting you prefer.

• To dim the light, press and hold the bottom of the switch until the light dims to the setting you prefer.

Note: Some switches have minimum dim levels. Contact your Integrator for this information.

To return to the last saved dim setting:

If you select a dim setting and then turn the light off, the dim setting is saved. The light returns to the saved dim setting the next time you turn the light on.

If you do not want to return to the dim setting, press and hold the top of the switch until the light brightens to the setting you prefer.

Using the safety switch:

The safety switch locks the entire light switch into the off position. This prevents the light from being turned on by another switch or a Home Director routine while you are changing a light bulb.

To use the safety switch:

1 Turn the light switch off (the indicator light turns on).

2 Place your fingernail (or a very small screwdriver) under the bottom edge of the safety switch.

3 Gently pull out on the safety switch.

When the safety switch is properly pulled out, the indicator light turns off.

4 Change the bulb.

5 Press the safety switch in until the indicator light turns on.

To automatically control lights:

For information on controlling lights automatically with the Home Director channel, see "Controlling devices" on page 24.

Using a 4 button wall controller switch

A 4 button wall controller switch can control up to 4 lights or routines. These lights and routines are turned on or off manually by pressing the switch or automatically by the Home Network Controller. A 4 button controller switch has these features:

Indicator lights ————— **Buttons**
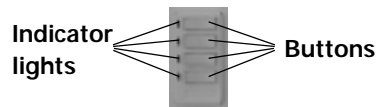
To manually control a light or routine:

1 Select the switch that controls the light you want to turn on/off or the routine you want to start/stop.

2 Press the left side of the switch to turn the light on or to start the routine.

   The indicator light next to the switch turns on.

3 Press the right side of the switch to turn the light off or stop the routine.

   The indicator light next to the switch turns off.

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Chapter 3: Home Director Channel

Using the Home Director channel

To start using the Home Director channel, turn on your television and choose the channel your IBM Authorized Home Systems Integrator (Integrator) designated for Home Director. The Home Director main screen displays with the "Devices" item automatically highlighted.

You can access the following items from the Home Director main screen:

• **Thermostat 1 and Thermostat 2**

Note: In the above example of the Home Director main screen, the Integrator named the thermostats "Downstairs" and "Upstairs". Your thermostat items may have been named differently.

• **Security system**

• **Devices**

• **Routines**

• **Configuration (time, date, and sound)**

Selecting an item

Use the remote control to select items that display on the Home Director channel.

To select an item.

1 Point the remote control toward the infrared target located near your television.

Note: You may need to "wake up" the remote control if it is not used for one minute or longer. To resume normal operation, click the Resume button on the top of the remote control.

2 Use your thumb or finger to move the trackball. The on-screen highlight moves around the screen in the direction you move the trackball.

3 When the item you want is highlighted, click the Select button on the bottom of the remote control.

For more information, see "Using the remote control" on page 8.

Controlling thermostats

The "Thermostats" item allows you to control two thermostats that are connected and configured in the Home Director system. When you select the Thermostats item from t the Home Director main screen, the "Thermostats" window displays.

	A check mark next to a thermostat indicates that routines can make changes to the thermostat settings.
	An "X" next to a thermostat indicates that routines <u>cannot</u> make changes to the thermostat settings.

Note: For more information, see "Allowing or not allowing changes to thermostat settings from routines" on page 21.

Viewing thermostat settings

You can view the settings for a thermostat by doing the following:

1 From the Home Director main screen, move the on-screen highlight to one of the thermostat items and click the Select button on the bottom of the remote control. The "Thermostats" window displays.

2 From the "Thermostats" window, move the on-screen highlight to the thermostat item for which you want to view the available settings and click the Select button.

3 The selected thermostat screen displays. For example, if you select the "Downstairs" thermostat, the screen would look like this:

From the selected thermostat screen, you can:

• View the "Now" temperature setting

• Change the active setting (Wake, Sleep, or Away)

• Change the set point temperature for each setting

• Change the active mode (Heat, Cool, Auto, or Off)

Note: The mode is Off when the Heat, Cool, and Auto modes are <u>not</u> selected.

• Turn the fan to Auto or On

• Allow or not allow changes to the temperature settings from routines

• Save changes (displays after you have made changes)

• Cancel changes made before saving

• Close the "Thermostats" window

Changing thermostat modes and temperature settings

From a thermostat item window, you can set a Wake, Sleep, or Away set point temperature and select the active mode (Heat, Cool, Auto, or Off). You can change the settings and mode directly from the thermostat window or from a routine. When you select the mode Auto, Home Director keeps the temperature within ±3 degrees of the currently active set point. Home Director automatically turns on either the heating system or the cooling system, as appropriate.

To change the active thermostat setting:

1 From the Home Director main screen, move the on-screen highlight to one of the thermostat items and click the Select button on the bottom of the remote control. The "Thermostats" window displays.

2 From the "Thermostats" window, move the on-screen highlight to the thermostat for which you want to change settings and click the Select button.

3 From the thermostat screen that displays, move the on-screen highlight to the setting (Wake, Sleep, or Away) that you want to activate.

4 Click the Select button. A green checkmark displays behind the setting you select. The settings that are not active display an "X" behind them.

5 Move the on-screen highlight to "Save Changes" and click the Select button.

The new thermostat setting is saved and the "Thermostats" window displays. You can change the settings for the other thermostat or return to the Home Director main screen.

To change the active mode:

1 From the Home Director main screen, move the on-screen highlight to one of the thermostat items and click the Select button on the bottom of the remote control. The "Thermostats" window displays.

2 From the "Thermostats" window, move the on-screen highlight to the thermostat for which you want to change the active mode and click the Select button.

3 From the selected thermostat screen that displays, move the on-screen highlight to the mode (Heat, Cool, or Auto) that you want to activate.

4 Click the Select button. A green check mark displays behind the mode you select. The modes that are not active display an "X" behind them.

Note: The mode is Off when the Heat, Cool, and Auto modes are not selected.

5 Move the on-screen highlight to "Save Changes" and click the Select button.

The new active mode is saved and the "Thermostats" window displays. You can change the settings for the other thermostat or return to the Home Director main screen.

To change the thermostat temperature setting:

1 From the Home Director main screen, move the on-screen highlight to one of the thermostat items and click the Select button on the bottom of the remote control. The "Thermostats" window displays.

2 From the "Thermostats" window, move the on-screen highlight to the thermostat for which you want to change settings and click the Select button.

3 From the selected thermostat screen that displays, move the on-screen highlight to the temperature setting or set point (number) you want to change. You can change the temperature in any setting (Wake, Sleep, or Away).

4 Click the Select button to select the setting. A highlighted box displays around the selected temperature.

• Click the Select button again to increase the setting number.

• Click the Resume button to decrease the setting number.

5 Move the on-screen highlight to "Save Changes" and click the Select button.

The new setting is saved and the "Thermostats" window displays. You can change the settings for the other thermostat or return to the Home Director main screen.

Changing the fan settings

From the thermostat screen you can change the fan setting to Auto or On.

To change the fan setting:

1 From the Home Director main screen, move the on-screen highlight to one of the thermostat items and click the Select button on the bottom of the remote control. The "Thermostats" window displays.

2 From the "Thermostats" window, move the on-screen highlight to the thermostat for which you want to change settings and click the Select button.

3 From the selected thermostat screen that displays, next to the "Fan" setting, move the on-screen highlight to "On" or "Auto" and click the Select button.

4 Move the on-screen highlight to "Save Changes" and click the Select button.

The new setting is saved and the "Thermostats" window displays. You can change the settings for the other thermostat or return to the Home Director main screen.

Allowing or not allowing changes to thermostat settings from routines

Thermostat settings are often controlled by the different routines that have been created for you by your Integrator. These routines can make changes to the temperature set points and active mode, depending on the rules of the routine. However, there may be times when you do not want a routine to make changes to the thermostat settings and you want to regulate the thermostats manually from the Home Director channel. In Home Director you can allow or not allow changes to thermostat settings from routines.

The following symbols display next to each thermostat in the "Thermostats" window and indicate the status of the "Allow Changes from Routines" option:

A check mark next to a thermostat indicates that routines can make changes to the thermostat settings.

An "X" next to a thermostat indicates that routines cannot make changes to the thermostat settings.

To allow or not allow changes to thermostat settings from routines:

1 From the Home Director main screen, move the on-screen highlight to one of the thermostat items and click the Select button on the bottom of the remote control. The "Thermostats" window displays.

2 From the "Thermostats" window, move the on-screen highlight to the thermostat for which you want to change settings and click the Select button.

3 From the selected thermostat screen that displays, next to the "Allow Changes from Routines", do one of the following:

   a To allow changes to the thermostat settings from routines, move the on-screen highlight to "Yes" and click the Select button.

   b To not allow changes to the thermostat settings from routines, move the on-screen highlight to "No" and click the Select button.

      Note: When "No" is selected, the settings remain as currently set until you either manually change them from the "Thermostats" window or select "Yes" next to "Allow Changes from Routines".

   If you have routines that change the currently active set point (for example, the "Leave for the Day" routine switches the thermostats to the "Away" set point), the routines will still run but the set point used will not be changed by the routine until you select "Yes" next to Allow Changes from Routines".

4 Move the on-screen highlight to "Save Changes" and click the Select button.

   The "Thermostats" window displays. You can change the settings for another thermostat or return to the Home Director main window.

   Note: Before saving the changes you made on the selected thermostats screen, you can cancel the changes by moving the on-screen highlight to "Cancel" and clicking the Select button.

Monitoring the security system

The "Security System" item on the Home Director main screen displays the current security system status. To perform security system actions, follow the instructions that came with your system to change the settings from the security system keypad.

Controlling devices

In the Home Director system, a device is a physical object (for example, a light or thermostat) that is installed in your home. Home Director can control a wide variety of devices if they are properly connected and configured. The "Devices" item allows you to control devices connected and configured in the Home Director system. When you select the Devices item from the Home Director main screen, the "Devices" window displays.

✔	A check mark next to a device indicates that routines can make changes to the state of the device.
✘	An "X" next to a device indicates that routines <u>cannot</u> make changes to the state of the device.

Note: For more information, see "Allowing or not allowing changes to devices from routines" on page 26.

The "Devices" window may not display all available devices. To see more device names, move the on-screen highlight to the up or down arrow and click the Select button on the bottom of the remote control.

Viewing device settings

You can view the settings for a device by doing the following:

1 From the Home Director main screen, move the on-screen highlight to the Devices item and click the Select button on the bottom of the remote control. The "Devices" window displays.

2 From the "Devices" window, move the on-screen highlight to the device for which you want to view the available settings and click the Select button.

The selected device screen displays. For example, if you select the "Family Room light" device, the screen would look like this:

From the selected device screen, you can:

• Turn the device on or off

• Change the brightness level for the device (for incandescent lights only)

• Allow or not allow changes to the device from routines

• Close the device screen

Turning a device on or off

The "On" and "Off" options allow you to turn a device on or off. In some cases, the device may be turned on or off automatically as part of a routine. If you manually change settings for a device that is currently controlled by a routine, the routine setting is overridden.

To turn a device on or off:

1 From the Home Director main screen, move the on-screen highlight to the Devices item and click the Select button on the bottom of the remote control. The "Devices" window displays.

2 From the "Devices" window, move the on-screen highlight to the device that you want to turn on or off and click the Select button.

3 From the selected device screen that displays, move the on-screen highlight to choose "On" or "Off" and click the Select button.

The word "Sent" displays next to the "On" or "Off" setting for 5 seconds.

4 Move the on-screen highlight to "Close" and click the Select button.

The "Devices" window displays. You can change the settings for another device or return to the Home Director main screen.

Using the Bright option for a device (incandescent lights only)

The "Bright" option allows you to specify a brightness setting for an incandescent light. No special bulbs are required.

To change the Bright setting for a light:

1 From the Home Director main screen, move the on-screen highlight to the Devices item and click the Select button on the bottom of the remote control. The "Devices" window displays.

2 From the "Devices" window, move the on-screen highlight to the device for which you want to change the settings and click the Select button.

3 From the selected device screen that displays, move the on-screen highlight until the current Bright setting is outlined by the highlighting box.

4 Click the Select button to select the setting. The highlighting box is filled in.

5 Change the bright percentage:

   • Click the Select button to increase the bright percentage.

   • Click the Resume button on the top of the top of the remote control to decrease the bright percentage.

   The word "Sent" displays next to the Bright setting for 5 seconds.

   If the bright percentage is 100%, the light uses the maximum power of the bulb installed. If the bright percentage is 00%, the bulb is not lit. The Bright setting does not allow a bulb to use more power than its rating.

6 When you are finished making changes, move the on-screen highlight to "Close" and click the Select button.

   The "Devices" window displays. You can change the settings for another device or return to the Home Director main screen.

Allowing or not allowing changes to devices from routines

You can set up a device to either allow or not allow changes to its state from routines. If a routine controls a device and you want to temporarily stop the routine from changing the device state, you can do that from the specific device screen on the Home Director channel.

The following symbols display next to each device in the "Devices" window and indicate the status of the "Allow Changes from Routines" option:

✔	A check mark next to a device indicates that routines can make changes to the state of the device.
✘	An "X" next to a device indicates that routines cannot make changes to the state of the device.

To allow or not allow changes to devices from routines:

1 From the Home Director main screen, move the on-screen highlight to the Devices item and click the Select button on the bottom of the remote control. The "Devices" window displays.

2 From the "Devices" window, move the on-screen highlight to the device for which you want to change settings, and click the Select button.

3 From the selected device screen that displays, next to the "Allow Changes from Routines", do one of the following:

   a To allow changes to the device state from routines, move the on-screen highlight to "Yes" and click the Select button.

   b To not allow changes to the device state from routines, move the on-screen highlight to "No" and click the Select button.

Note: **When "No" is selected, the device state remains as currently set until you either manually change it from the "Devices" window or select "Yes" next to "Allow Changes from Routines".**

4 **When you are finished making changes, move the on-screen highlight to "Close" and click the Select button.**

The "Devices" window displays. You can change the settings for another device or return to the Home Director main screen.

Controlling routines

In the Home Director system, a rule contains instructions for changing a device's state. A routine is a set of rules that is used to control devices. The "Routines" item allows you to start or stop existing home control routines and to change schedule information. When you select the Routines item from the Home Director main screen, the "Routines" window displays.

	A check mark next to a routine indicates that this routine is allowed to run from schedules.
	An "X" next to a routine indicates that this routine is <u>not</u> allowed to run from schedules.
	A "running man" icon next to a routine indicates that this routine is running.

Note: For more information, see "Allowing or not allowing routines to run from schedules" on page 31.

The "Routines" window may not display all available routines. To see more routine names, move the on-screen highlight to the up or down arrow and click the Select button on the bottom of the remote control.

Viewing routine settings

You can view the settings for a routine by doing the following:

1 From the Home Director main screen, move the on-screen highlight to the Routines item and click the Select button on the bottom of the remote control. The "Routines" window displays.

2 From the "Routines" window, move the on-screen highlight to the routine for which you want to view the available settings and click the Select button.

The selected routine screen displays. For example, if you select the "Come Home" routine, the screen looks like this:
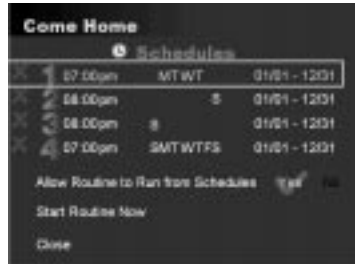
From the selected routine screen, you can:

• **View or change up to 4 schedules for the routine**

• **Allow or not allow the routine to run from schedules**

• **Start or stop the routine**

• **Close the routine screen**

Viewing a schedule for a routine

The "Schedule" option allows you to define up to 4 different schedules for a routine.

It may be useful to have different schedules for a particular routine. For example, if you leave your home at different times on different days of the week, you can create a "Leave for the Day" schedule for the different days of the week. Table 1 shows two sample schedules.

Start Time	Day of Week	Date Range	Description
08:30 am	MWF	01/01 - 12/31	Starts at 8:30 am every Monday, Wednesday, and Friday from January 01 to December 31
09:30 am	TT	01/01 - 12/31	Starts at 9:30 am every Tuesday and Thursday from January 01 to December 31

Table 1: Sample schedules for a "Leave for the Day" routine

Changing a schedule

You can change the following schedule information for routines:

• **Time**

• **Variation in the start time ("Vary by")**

• **Days of the week**

• **Start and end dates**

To change a schedule:

1 From the Home Director main screen, move the on-screen highlight to the Routines item and click the Select button on the bottom of the remote control. The "Routines" window displays.

2 From the "Routines" window, move the on-screen highlight to the routine for which you want to change a schedule and click the Select button.

3 From the selected routine screen that displays, click the number of the schedule you want to change.

The "Schedule" screen displays. For example, if you select Schedule 1 of the "Come Home" routine, the screen looks like this:

4 Select a time for the routine to start (you can choose only one of the following three options):

a To change the time, move the on-screen highlight until the hour, minute, second, or am/pm item is selected.

• Click the Select button to increase the number or toggle between am and pm.

• Click the Resume button to decrease the number.

b To start the routine automatically at dawn, move the on-screen highlight to "Dawn" and click the Select button.

c To start the routine automatically at dusk, move the on-screen highlight to "Dusk" and click the Select button.

5 Select a variation in the start time for a routine.

Move the on-screen highlight into the "Vary by" area until the minute item is selected.

• Click the Select button to increase the number.

• Click the Resume button to decrease the number.

If you want a routine to always start at the exact scheduled time, set the "Vary by" minutes to 00.

If you specify a "Vary by" value of 10 minutes, the start time randomly varies up to 10 minutes before or after the scheduled start time. This feature is useful if you are going to be away from your home on vacation and you want it to appear that someone is home.

6 Select the days of the week on which the routine will run.

  a Move the on-screen highlight until the day of the week you want is highlighted.

  b Click the Select button to select the day.

  c Repeat these steps until all of the days you want are selected.

    • A day that is selected displays this symbol behind it: ✔

    • A day that is not selected displays this symbol behind it: ✖

7 Select the Start and End dates for the routine.

  To change the date, move the on-screen highlight until the month or day item is selected.

    • Click the Select button to increase the number.

    • Click the Resume button to decrease the number.

8 Save the schedule:

    • If you changed an existing schedule, move the on-screen highlight to "Save Changes" and click the Select button.

    • If you did not make changes, move the on-screen highlight to "Close" and click the Select button on the remote control.

9 To activate a schedule so it can run, move the on-screen highlight to "Yes" next to "Schedule Activated" and click the Select button. A schedule that is activated displays this symbol next to it: ✔

10 To make a schedule not active, move the on-screen highlight to "No" next to "Schedule Activated" and click the Select button. A schedule that is not activated displays this symbol next to it: ✖

11 If you want to return to the "Routines" screen without changing settings for a specific schedule, move the on-screen highlight to "Close" and click the Select button.

Allowing or not allowing routines to run from schedules

You can set up a routine to either allow or not allow the routine to run from schedules. If a schedule calls a routine to run and you want to temporarily stop the schedule from controlling the routine, you can do that from the specific routine screen on the Home Director channel.

The following symbols display next to each routine in the "Routines" window and indicate the status of the "Allow Routines to Run from Schedules" option:.

Symbol	Description
✔	A check mark next to a routine indicates that this routine is allowed to run from schedules.
✖	An "X" next to a routine indicates that this routine is <u>not</u> allowed to run from schedules.
(running man icon)	A "running man" icon next to a routine indicates that this routine is running.

To allow or not allow routines to run from schedules:

1 From the Home Director main screen, move the on-screen highlight to the Routines item and click the Select button on the bottom of the remote control. The "Routines" window displays.

2 From the "Routines" window, move the on-screen highlight to the routine for which you want to change the settings and click the Select button.

3 From the selected routine screen that displays, next to the "Allow Routines to Run from Schedules", do one of the following:

   a To allow the routine to run from schedules, move the on-screen highlight to "Yes" and click the Select button.

   b To not allow the routine to run from schedules, move the on-screen highlight to "No" and click the Select button.

   Note: When "No" is selected, the routine state remains as currently set until you either manually change it from the "Routines" window or select "Yes" next to "Allow Routines to Run from Schedules".

4 When you are finished making changes, move the on-screen highlight to "Close" and click the Select button.

The "Routines" window displays. You can change the settings for another routine or return to the Home Director main screen.

Starting and stopping a routine

The "Start Routine Now" option allows you to immediately start a routine. If you choose this option, any schedule assigned to the routine will not be changed. When a routine is running, the "running man" icon displays to the left of the routine name on the "Routines" window.

The "Stop Routine Now" option allows you to immediately stop a routine. For example, if your "Go to Bed" routine takes 20 minutes to turn off a series of lights around your house and you decide after starting the routine that you are not going to bed yet, stopping the routine will cancel the events that have not yet occurred in the routine. It will not undo or reverse events that have already occurred. You can restart the routine when you decide to go to bed.

To start or stop a routine:

1 From the Home Director main screen, move the on-screen highlight to the Routines item and click the Select button on the bottom of the remote control. The "Routines" window displays.

2 From the "Routines" window, move the on-screen highlight to the routine that you want to start or stop and click the Select button.

3 From the selected routine screen that displays, do the following:

   a To start a routine, move the on-screen highlight to "Start Routine Now" and click the Select button. The word "Started" displays to the right of the "Start Routine Now" setting for 5 seconds, the "running man" icon displays to the left, and the "Start Routine Now" setting changes to "Stop Routine Now".

b To stop a routine that is running, move the on-screen highlight to "Stop Routine Now" and click the Select button. The word "Sent" displays next to the "Stop Routine Now" setting for 5 seconds.

4 Move the on-screen highlight to "Close" and click the Select button.

The "Routines" window displays. You can change the settings for another routine or return to the Home Director main screen.

Changing Home Director configuration settings

The date and time configuration settings for the Home Director system display in the box in the lower left corner of the Home Director main screen. When you select the date and time box from the Home Director main screen, the "Configuration" window displays:

You can also turn on or off the sounds for the Home Director system from the "Configuration" window.

Changing the date and time

You can change the date and time from the Home Director "Configuration" window.

1   From the Home Director main screen, move the on-screen highlight to the Date and Time item and click the Select button on the bottom of the remote control. The "Configuration" window displays.

2   From the "Configuration" window, move the on-screen highlight until the "Date and Time" item is selected.

3   Click the Select button.

The "Set Date and Time" screen displays:

From the "Set Date and Time" screen, you can change the following settings:

• Month

• Day

• Year

• Hour

- **Minute**

- **AM/PM**

4 To change the date, move the on-screen highlight until the month, day, or year item is selected.

  - Click the Select button to increase the number.

  - Click the Resume button to decrease the number.

5 To change the time, move the on-screen highlight until the hour, minute, or am/pm item is selected.

  - Click the Select button to increase the number or toggle between am and pm.

  - Click the Resume button to decrease the number.

6 Highlight the "Save Changes" item and click the Select button.

  The new setting is saved and the "Configuration" window displays. You can change the settings for sounds or return to the Home Director main screen.

Turning sounds on or off

You can specify whether or not you hear sounds from the Home Director software. To change the sound settings:

1 From the Home Director main screen, move the on-screen highlight to the Date and Time item and click the Select button on the bottom of the remote control. The "Configuration" window displays.

2 From the "Configuration" window, move the on-screen highlight until the "Sounds" item is selected.

3 Click the Select button.

  The "Sounds" screen displays:

4 Highlight the "On" or "Off" item.

5 Click the Select button to change the setting.

  Note: Sounds are on when you see the ✔ symbol behind the word "On".

  Sounds are not on when you see the ✗ symbol behind the word "On".

6 Highlight the "Save Changes" item and click the Select button.

  The new setting is saved and the "Configuration" window displays. You can change the settings for Date and Time or return to the Home Director main screen.

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Chapter 4: Troubleshooting

Diagnosing and recovering from problems

This section contains information that can help you solve common problems you might have with your Home Director system.

You should look through this chapter to find the problem description that matches the problem you are having. When you find the description, simply follow the steps to resolve the problem. Some problems have multiple steps. You should follow the steps until the problem is solved.

The information contained in this section is intended for several models of the Home Director product. The system you purchased may not have some of the hardware discussed in this section.

If your system did not come with the hardware described, some of the troubleshooting information may not apply. Follow the steps for the hardware and software that came with your system.

If you follow the steps in this section and the problem continues, or if you encounter a problem that is not listed in this section, you can still get help. See Chapter 5: "Getting Help" for more information.

If the problem is...	Here's what to do...

On-screen highlight on the Home Director channel does not move	1 Make sure you are using the Home Director remote control on a television with an infrared target installed.
	2 "Wake up" the remote control by clicking the Resume button on the top of the remote. The remote control switches to power saving mode if it is not used for one minute or longer.
	3 Make sure you are pointing the remote control toward the infrared target.
	Note: For information on using the Home Director remote control, see "Using the remote control" on page 8.
	4 Make sure nothing is blocking the infrared target.
	5 Move the trackball slowly. The on-screen highlight will not move if you roll the trackball too fast.
	6 Check the battery indicator light. If the battery power is low, replace the batteries. For more information, see "To change the remote control batteries:" on page 9.
	7 Make sure no fluorescent lights are shining directly on the infrared target. If so, the red light in the infrared target will blink even when the trackball is not moved. If fluorescent lights are shining on the infrared target:
	  a. Turn off the fluorescent light (temporarily) to see if it is causing the problem.
	  b. Shield the infrared target from any direct fluorescent lights.
	  c. If possible, relocate the fluorescent light.
	8 Make sure that the infrared target is not receiving reflected or direct sunlight. If so, the red light in the infrared target will blink even when the trackball is not moved. If the infrared target is exposed to sunlight, either move or shield the target.
	9 Make sure the infrared target is connected to the target wall outlet and that the green power light is lit.
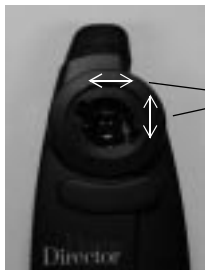	
	"Target" wall outlet
	Power light
	
	  a. If it is not connected, reconnect it to the "Target" connector.
	  b. Make sure the green power indicator light is lit on the wall outlet. If the green power light is not lit, contact your Integrator.
	10 Test the on-screen highlight with another Home Director remote control, if available. If the on-screen highlight operates properly using the other remote, you may need to replace the non-working remote control. Contact your Integrator.

✓	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 2: Remote control problems

If the problem is...	Here's what to do...
On-screen highlight on the Home Director channel moves only in one plane (horizontally or vertically) or is sluggish	The trackball in the remote control may need cleaning. Use another Home Director remote control, if available. If the on-screen highlight functions normally when using another remote, follow these steps to clean the trackball in the non-working remote control.

1 Remove the batteries from the remote control by sliding the bottom of the remote back.
2 After you remove the batteries, turn the remote control over and hold it in one hand with the front of the remote control pointing away from you.
3 Take a ball point pen and insert the pen tip into the small indentation located in front of the trackball.
4 Turn the cover counter clockwise until it stops (about 1/2 inch).
5 Turn over the remote control into your other hand to remove the trackball.
6 Clean the trackball with a small amount of mild detergent in water and dry it with a lint free cloth.
7 Place the trackball on the cover so that it does not roll.
8 Clean the two plastic rollers inside the socket by gently rubbing each roller perpendicular to the roller with a cotton swab dipped in isopropyl alcohol. Rotate the rollers to ensure that the entire roller is cleaned.

Brush cotton swab in direction of arrows

9 Make sure that the inside of the socket is dry before replacing the trackball into the socket.
10 Place the cover on to the remote control so that the indentation is aligned with the notches. The cover should fit into place so that it is flush with the top of the remote control.
11 Take a ball point pen and insert the pen tip into the small indentation and turn clockwise (right) until it stops (about 1/2 inch).
12 Replace the batteries.

If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.

Table 2: Remote control problems

Home Director channel

If the problem is...	Here's what to do...

No picture appears on the Home Director channel, but a picture appears on all other channels	1 Make sure the television is set to the Home Director channel.
	2 Make sure the coaxial cable is correctly attached to the television.
	3 If a VCR is installed between the television and the wall plate:
	  • Turn off the VCR and check the Home Director channel again.
	  • Connect the coaxial cable from the wall directly to the television and check the Home Director channel again.

A cable television channel appears on the Home Director channel	1 Make sure the television is set to the Home Director channel.
	2 If a VCR is installed:
	  • Turn off the VCR and check the Home Director channel again.
	  • Connect the coaxial cable from the wall directly to the television and check the Home Director channel again.
	3 Check with your local cable company to find out if a new cable channel has been added in your area. If a new cable channel has been added that has the same channel number as the Home Director channel, contact your Integrator to change the Home Director channel assignment or have your cable provider block that new channel for you so that the new channel will not override the Home Director channel.

Herringbone pattern appears only on the Home Director channel	Contact your Integrator.
Herringbone pattern appears on many channels including the Home Director channel	Contact your Integrator.
No color on the Home Director channel	You may have chosen an incorrect cable standard setting in the setup screen on the television. Use the television setup screen to select another cable standard such as HRC or IRC, or contact your Integrator.
An error code (numbers) or an error message (text) is displayed on the screen	Write down the error code number, text, and any symptoms. Contact your Integrator.
HD channel and security camera channels appear to work but all other channels have a poor signal	Check the red "surge" light on the video distribution amplifier in the Home Network Connection Center. If it is lit, an electrical surge has damaged the video distribution amplifier and it must be replaced. Contact your Integrator.
✓	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 3: Home Director channel problems

Uninterruptible power supply

If the problem is...	Here's what to do...
Beeping emanating from the Home Network Controller (regular intervals)	1 If there has been a power outage to your home, the Uninterruptible Power Supply (UPS) will beep four times every 30 seconds until power is restored. When power is restored, the UPS will reset itself and the beeping will stop. 2 If there has been no power outage to your home, contact your Integrator.
Continuous beeping emanating from the Home Network Controller	The battery in the UPS needs to be replaced. Contact your Integrator.
A sustained tone emanating from the Home Network Controller	The power load for the UPS has been exceeded. Contract your Integrator.
Occasional beep emanates from the Home Network Controller	This indicates normal UPS functioning.
☑	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 4: Uninterruptible power supply problems

Home Network Connection Center

If the problem is...	Here's what to do...
A single telephone does not work	1 Make sure the telephone is plugged into the telephone outlet. 2 Check the wall plate for broken or damaged wires. 3 If you have a cordless telephone, disconnect the power cable for a few moments and then reconnect it. 4 If available, take a working telephone from another area of the house and plug it into the telephone outlet in question and test it. If it works, replace your telephone. 5 Open the Home Network Connection Center, locate the telephone cable from the wall plate in question. Make sure the cable is connected properly to the Residential Telcom Module. 6 Connect a known working telephone directly into the Residential Telcom Module outlet for the wall plate in question. 7 If the telephone does not work properly, the module may need to be replaced. Contact your Integrator for replacement of the module. Until a replacement part is obtained, move the telephone cable to a working connector on the module.
☑	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 5: Home Network Connection Center problems

If the problem is...	Here's what to do...

No telephones work	1 If your home has a security system:
	    a. Open the Home Network Connection Center, disconnect the telephone (RJ-11) cable that is plugged into the RJ-31X connector in the Residential Telcom Module.
	    b. Replace the RJ-11 cable with the shorting plug that came with the module.
	    c. If the phones begin to work, call your Integrator. There may be problems with the security system.
	2 If your home does not have a security system:
	    a. Contact the phone company to find the location of the telephone company interface box on the outside of your house.
	    b. Check to see if the interface box has an RJ-11 (telephone jack) connector. If it does, then connect a telephone and check for dial tone.
	    c. If the interface box on your home does not have an RJ-11 interface, contact your local telephone company.
	3 If the telephone company informs you that there is a dial tone to your house and your phone still does not work, contact your Integrator. Tell the Integrator that the telephone company has verified a dial tone to your house.
	4 Open the Home Network Connection Center and check to see if the red LED on the Residential Telcom Module is lit. If the red LED is lit, contact your Integrator.
	5 Verify that the telephone service cable is connected properly to the Residential Telcom Module. Disconnect and reconnect each cable.

DBS channels do not appear on the television	1 Make sure there is a broadcast signal on the channel you have selected.
	2 Connect a television directly to the DBS receiver.
	  • If there is still no picture, check your DBS remote for a video/TV selection and verify that it is set to "TV". If your DBS remote does not have a video/TV selection, contact the DBS provider.
	  • If there is a picture when connecting a TV directly to the receiver, then contact your Integrator.

Cable or UHF/VHF channels do not appear on the television	1 Make sure there is a broadcast signal on the channel you have selected. 2 If you have a cable box or VCR, make sure the cables are properly connected. (For instructions, check the owner's manual for your cable box or VCR).
Camera option output does not appear on the television	Make sure you have selected the proper channel for the camera.
✓	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 5: Home Network Connection Center problems

Devices

If the problem is...	Here's what to do...
A controlled device does not turn on or off from a routine	1 Turn on the device manually. 2 Turn on and off the device using the Home Director channel. 3 Make sure the power switch on the device (if applicable) is set to the "on" position. 4 Make sure the safety switch is not pulled out on the light switch. 5 If the device is a light, make sure the bulb is still good. If it is not, replace the bulb. 6 Make sure the device is plugged into an outlet that has power. 7 Make sure that "Yes" is selected next to "Allow Changes from Routines" on the device screen on the Home Director channel. 8 If the device is controlled by a scheduled routine, check the schedule for the routine on the Home Director channel to make sure the routine's start and end dates are correct.
A controlled device turns on or off unexpectedly	1 Make sure the device is still plugged in and that the power switch (if applicable) is still set to the "on" position. 2 If the device is a light, make sure the bulb is still good. If it is not, replace the bulb.
A controlled light will not dim	1 Make sure you are using an "incandescent" type light. The Home Director software is not designed to dim any other type of light, for example, fluorescent. 2 Contact your Integrator to check if the minimal dim level for the switch is set too high.
☑	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 6: Problems with devices

Routines

If the problem is...	Here's what to do...
A routine is scheduled but does not start on the correct date or time.	Make sure the current date and time settings are correct for your location by checking the "Configuration" window on the Home Director channel.
A routine is scheduled to start at "Dawn" and/or "Dusk" and does not begin and end on time	Make sure the current date and time settings are correct for your location by checking the "Configuration" window on the Home Director channel.
☑	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 7: Problems with routines

Ethernet Network

If the problem is...	Here's what to do...
A computer plugged into the Ethernet home network does not connect	1 Make sure the computer cables are properly connected. 2 Make sure the hardware and software are configured properly and for the 10BaseT standard. 3 Check to see if the green light is lit on the Computer Networking Module inside the Home Network Connection Center. 4 Move the computer to another Ethernet connection in the house and try to connect again. 5 To obtain support information, refer to the documentation that came with your computer.
☑	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 8: Problems with Ethernet connections

Thermostat wall display

If the problem is...	Here's what to do...
No heat or air conditioning Heat or air conditioning system runs constantly	1 Check the wall display(s) to see if the temperature is displayed. Contact your Integrator if no temperature is displayed. 2 If the temperature is displayed, make sure it is set to the temperature you specified. The temperature can be set from the wall display or the Home Director channel.
Manual control of thermostats but Home Director routines cannot control thermostats	Make sure that "Yes" is selected next to "Allow Changes from Routines" on the thermostat screen of the Home Director channel.
Thermostat wall display is blank (no temperature displays)	1 Check if the power is out. 2 Make sure that the face plate of the thermostat wall display is connected properly.
"CF" displays on the thermostat wall display	This indicates a "communication failure" (CF). Call your Integrator for the possible replacement of a bad thermostat wall display.
☑	*If any of these problems continue after you take the actions listed, see "Obtaining service and support" on page 49.*

Table 9: Problems with thermostat wall displays

IBM

Chapter 5: Getting Help

Obtaining service and support

Printed documentation

Chapter 4: "Troubleshooting" contains helpful information you can use to solve common problems you may have with your Home Director system.

Many of the components in the Home Director system require professional service. Some failures require licensed trade specialists (like electricians) to complete repairs or replacements. Your IBM Authorized Home System Integrator can help you arrange for these types of warranty or fee-service repairs.

IBM Authorized Home System Integrator

The IBM Authorized Home System Integrator (your installer) is the person or company that installed the Home Director product in your home. You should contact your installer if you have taken the actions listed in the printed documentation and the problem still exists.

Authorized installers have detailed information and contacts which they can use to quickly resolve problems you may have with your system. Your installer was instructed to include the name and telephone number of their company in the "Appendix" of this book. Refer to that section for information on contacting the installer.

IBM

You can contact IBM if your installer is no longer available and you need another local service contact or if you are having an emergency and cannot contact the installer.

Before you call, please have the following information available. This will provide the IBM technical support representative with valuable information that will assist them when handling your call.

- Name:
- Address:
- Telephone number:
- Machine and model type: (see "Important Information" on page 53)
- Machine Serial number: (see "Important Information" on page 53)
- Installer name:
- Date of purchase (closing date):

Support Center number availability.

The IBM Home Director Professional support center is available 24 hours a day, 365 days a year (response times vary). In the United States and Canada, call 1-800-426-7149.

In all other countries, contact your IBM reseller or IBM marketing representative for telephone numbers, services, and hours of operation if applicable.

Appendix A: Installation Information

Important Information

Your Integrator should record the important installation information on this page. Refer to this information when you need service and support from your Integrator or IBM. This information may help preduce the amount of time required for the service specialist to diagnose problems you may have with your system.

Date of Installation / Warranty Start Date:

The date of installation and orientation is the date on which your warranty period begins. Your signature and the signature of your Integrator should appear on the lines following the date. You may want to attach your sales invoice to this page for your records.

Month	Day	Year

Homeowner signature	Homeowner name (printed)

Integrator signature	Integrator name (printed)

Integrator company name:

_____

Integrator certification number (from IBM):

_____

HNCC model number:

_____

HNCC machine serial number:

_____

Modules installed:

_____

HNC machine type and model number:

_____

HNC machine serial number:

_____

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