Creating pleasurable environments

INSTALLATION & OPERATION MANUAL

Before operating this product, please read the instructions carefully and save this manual for future use.

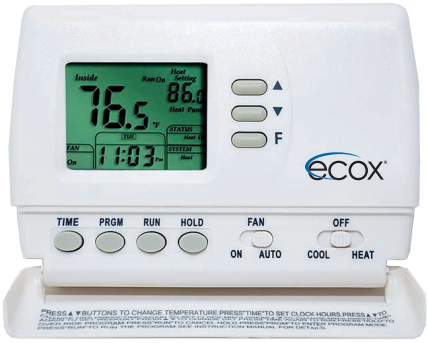
TEDIBP52MV1

5+2 PROGRAMMABLE

2 HEAT / 2 COOL. MULTI-STAGE THERMOSTAT
5+2 PROGRAMMABLE, NOT FOR HEAT PUMP SYSTEM
COMPATIBLE WITH GAS, OIL, ELECTRIC HEAT SYSTEM

ecox **2 Heat / 2 Cool MULTI-STAGE THERMOSTAT** TEDIBP52MV1

CONTENT



2 SPECIFICATION / FEATURES / SAFETY
3 REMOVE THE OLD THERMOSTAT / THERMOSTAT BUTTONS AND SWITCHES
4 THERMOSTAT LCD DISPLAY
5 INSTALL THE THERMOSTAT
6 FAN OPTION / BATTERIES OPERATION / WIRING DIAGRAMS / CHECK THERMOSTAT OPERATION
7 REPLACING BATTERIES / CONFIGURATION AND OPERATION
9 MANUAL OPERATION
10 PLANNING YOUR PROGRAM
11 ENTER THE HEATING / COOLING PROGRAM
12 REVERT TO FACTORY DEFAULT PROGRAM SETTINGS / TROUBLESHOOTING
14 WARANTY POLICY

READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventative care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review the chart of Troubleshooting Tips first, you may not need to call for service

SPECIFICATION

Power Supply:	20VAC-30VAC 50-SOHZ or Battery powered
Terminal Load:	1.0A per terminal, 3.0A maximum total load
Set Point Temperature Range:	45°F to 90°F {7°C to 32°C).
Accuracy:	+/- 1°F or +/- 0.5°C.
Dimensions:	5.1" W X 3.7" H X 1.2" D / 12,9 cmx9,4 cmx3,0 cm
Color:	White

FEATURES

- Large LCD display with backlight, continuous backlight option.
- Simultaneous heat and cool set point storage.
- Display of room temperature, set temperature and current time simultaneously.
- Fan switch with ON and AUTO.
- Permanent user setting retention during power loss. No batteries are required.
- Optional "AAA' batteries provide continuous time and temperature display during power loss.
- Optional temperature display of Fahrenheit or Celsius scale.
- Air Filter change Indicator.
- Compressor short cycling protection available.
- Low Battery Indicator.
- Display temperature calibration.
- Separate 5-day (weekday) and 2-day (Saturday/Sunday) programming with four separate time/temperature periods per day.
- Display temperature recalibrates.

IMPORTANT SAFETY INFORMATION

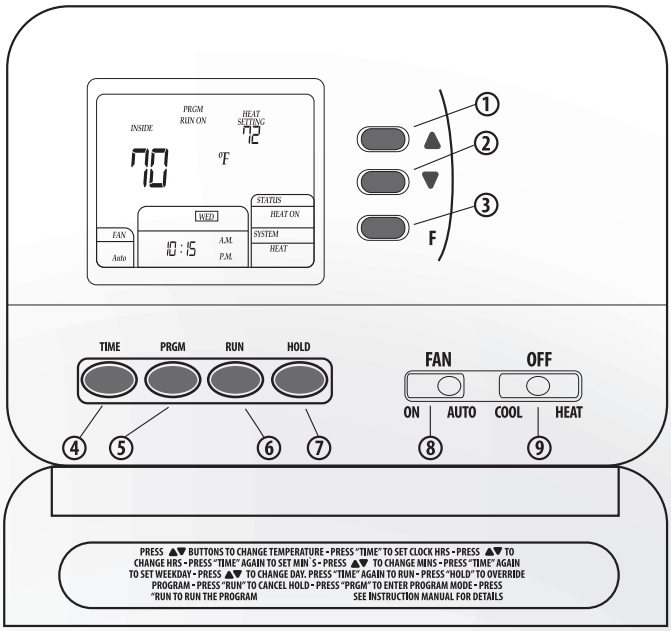
- Always turn off power at the main power source by removing the fuse, or switching the circuit breaker to the off position before Installing, removing, cleaning, or servicing this thermostat.
- Read all of the information in this manual before installing this thermostat.
- Use a professional contractor to install this thermostat.
- This is a 24VAC low-voltage thermostat. **DO NOT INSTALL ON VOLTAGES HIGHER THAN 30 VAC.**
- ALL wiring must conform to local and national building and electrical codes and ordinances.
- Do not short (Jumper) across terminals on the gas valve or at the system control to test installation. This will damage the thermostat and void the warranty.
- Do not switch the system to cool if the temperature is below 50°F (10°C). This can damage the air conditioning system.
- This thermostat will not control your heating/air conditioning system without power. Two “AAA” alkaline batteries are only used to provide continuous time and temperature display during power loss. Installed batteries will allow programming prior to installation.
- Replace batteries when the battery icon indicates the low battery message.
- Change the air filter when the Filter Change icon begins blinking.
- Use this thermostat only as described in this manual.

REMOVE THE OLD THERMOSTAT

WARNING! : Electrical Shock Hazard

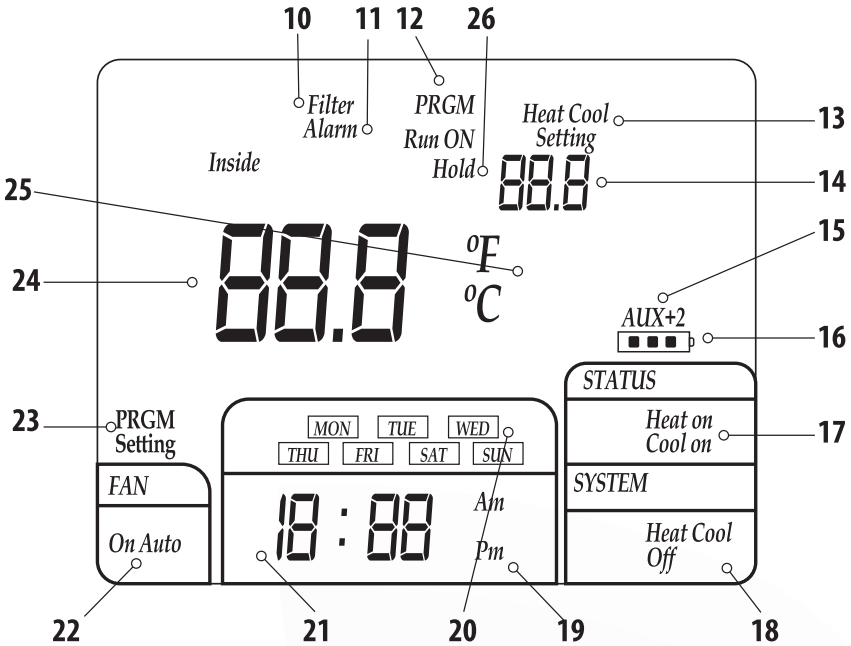
1. Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.
2. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off.
3. Remove the cover of the old thermostat. This should expose the wires.
4. Label the existing wires from the existing thermostat before removing.
5. After labeling the wires, remove the wires from the wire terminals.
6. Remove the existing thermostat from the wall.
7. Refer to the following section for instructions on how to install this thermostat.

THERMOSTAT BUTTONS AND SWITCHES



(1) Raises temperature setting
(2) Lowers temperature setting
(3) Indicate button for count back time of filter alarm
(4) Time setting button
(5) Program setting button
(6) Program run button
(7) Hold temperature button
(8) Fan control switch (ON, AUTO)
(9) System control switch (COOL, HEAT, OFF)

THERMOSTAT LCD DISPLAY



(10) **Filter Alarm:** Indicates filter needs to be replaced.
(11) **Alarm:** When flashing, indicates a system malfunction
(12) **PRGM Run On:** Indicates when the thermostat is in the program **RUN** mode.
(13) **Heat Setting:** Temperature set-point in the Heating Mode
Cool Setting: Temperature set-point in the Cooling Mode
(14) Set-point temperature display
(15) **NO Icon** indicates when the thermostat is in the 1st stage heat pump mode.
AUX +2 Indicates when the thermostat activates auxiliary heating
(16) **Battery Icon:** If the Battery icon is flashing, batteries need to be replaced.
(17) Indicates the thermostat is calling for **HEAT** or **COOL**
(18) Indicates the current system switch position
(19) Clock **AM/PM** indicator
(20) Indicates the current day, or days being programmed
(21) Indicates the current time of day or time of days being programmed.
(22) Indicates the current fan switch position.
(23) Indicates when the thermostat is in the **PRGM** mode.
(24) Indicates the current actual room temperature, or the current configuration menu number.
(25) Indicates whether the displayed temperature is in **°F** or **°C**
(26) **HOLD:** Indicates when the thermostat is in the temperature **HOLD** mode

ATTACH THERMOSTAT BASE TO WALL

PULL THE COVER OFF THE BASE.

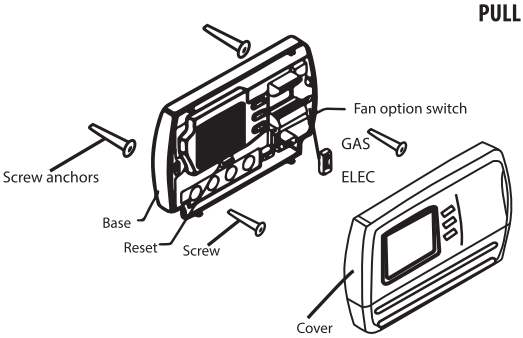


FIGURE 1

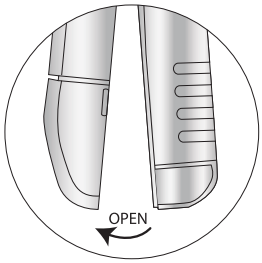


FIGURE 2

⚠ WARNING! : Electrical Shock Hazard

Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.

1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off.
2. Place the system switch **(COOL/OFF/HEAT)** in the **OFF** position.
3. Place the FAN **(AUTO/ON)** switch in the **AUTO** position.
4. Gently pull the cover straight off the base. *(See figure 2.)*
5. Put the thermostat base against the wall where you plan to mount it *(Be sure the wires will feed through the wire opening in the base of the thermostat.)*
6. Mark the placement of the mounting holes.
7. Move the base out of the way. Drill mounting holes. Use a hammer to tap in the supplied anchors into the mounting holes.
8. Fasten the base loosely to the wall as shown in **Figure 1**, using two mounting screws. Place a level against the bottom of the base and adjust until level, then lighten the screws. *(Leveling is for appearance only, and will not affect thermostat operation.)*
9. Insert stripped, labeled wires into matching wire terminals. See "***Wiring Diagrams***", **Section 3, Figure 3.**
   CAUTION: Be sure exposed portions of wires do not touch other wires.
10. Tighten screws on terminal block. Gently tug on each wire to be sure of proper connection. Double check that each wire is connected to the proper terminal.
    CAUTION: Installing batteries backwards can damage the thermostat.
11. Install two fresh "AAA" alkaline batteries in the battery compartment. Be sure to match positive **(+)** ends of batteries with positive **(+)** battery terminals in the battery compartment. *(The thermostat will operate from 2 size "AAA" alkaline batteries or 24VAC power. When operated from 24VAC power, your thermostat will maintain time and continuously display the temperature during a loss of AC power with the batteries installed.)*
12. Replace the cover on the thermostat by snapping it in place.
13. Turn on power to the system at the main service panel.
14. Test thermostat operation as described in the following section.

ELECTRIC/GAS JUMPER (Fan Option)

Read the following information before clipping the non-electric heat jumper 1 *(See figure 1)*. If you are unsure of your application, contact a qualified service person.
This thermostat is configured from the factory to energize the fan on a call for heat. If your system is an electric heat that REQUIRES the thermostat to turn on the fan on a call for heat, place do not cut Jumper1. If your system does not require the thermostat to energize the fan on a call for heat such as fossil fuel (gas, oil, etc.), forced air system as well as hydraulic heating systems, place cut the jumper1.

BATTERY OPERATION

The thermostat is powered by 24VAC. Batteries are not required for proper operation, but with two "AAA" batteries installed, your thermostat will maintain time and continuously display the temperature during a loss of power.

WIRING DIAGRAMS

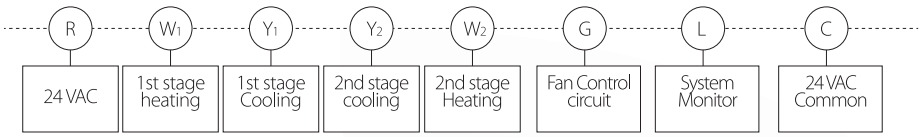


Figure 3,
**Note: When presented with 24VAC on "L" terminal, the "Alarm" Icon will flash on the display.

CHECK THERMOSTAT OPERATION

If at any time during testing your system does not operate properly, contact a qualified service person.
Turn on power to the system.

FAN OPERATION

1. Move the system switch to the **OFF** position. If your system does not have a **"G"** *(Fan)* terminal connection, skip to the Heating System.
2. Move the fan switch to the **ON** position. The blower should begin to operate.
3. Move the fan switch to the **AUTO** position. The blower should stop immediately.

HEATING SYSTEM

1. Move the **SYSTEM** switch to the **HEAT** position If the auxiliary heating system has a standing pilot, be sure to light it.
2. Press ↑ to adjust thermostat setting above room temperature. The 1st stage heating should begin to operate.
3. Both stages of heating system will begin to operate when the set point is 3°F (2°C) above ambient. **AUX +2** display will be shown. If **+2** is flashing, the second stage will delay 15 minutes before starting. *(See configuration menu 2)*
4. Press ↓ to adjust temperature setting below room temperature. The heating system should stop operating.

COOLING SYSTEM

CAUTION: To prevent compressor and/or property damage, if the outdoor temperature is below 50ºF (10ºC), DO NOT operate the cooling system.

1. Move the **SYSTEM** switch to the **COOL** position.
2. Press, ⬇ to adjust thermostat setting below room temperature. The blower should come on immediately, followed by cold air circulation. If the **COOL ON** display is flashing, the 1st stage compressor is at off-time cycle protection.
3. Both stages of cooling system will begin to operate when the set point is 3ºF (2ºC) below ambient **AUX +2** display will be display. If **+2** display is flashing, the second stage will delay 15 minutes before starting *(Note: See Configuration menu item 1)*
4. Press ⬆ to adjust temperature setting above room temperature. The cooling system should stop operating.

If all functions operate properly, the thermostat is installed correctly.

REPLACING BATTERIES

If your thermostat was pre-installed, the batteries may be in place. If the battery icon on the display is flashing, it indicates that the batteries need to be replaced. When the thermostat is powered only by battery, the battery icon will flash for approximately 2 months before the batteries are expected to expire.

Important: Replace the batteries when the low battery message flashes on the display. This will keep the thermostat operating properly. With two "AAA" batteries installed, your thermostat will maintain time and continuously display the temperature during a loss of AC power.

1. Place the **COOL/OFF/HEAT** switch in the **OFF** position.
2. Pull the **FAN/ AUTO/ON** switch in the **AUTO** position.
3. Gently pull the cover straight off the base.
4. Install two "AAA" alkaline batteries in the battery compartment. Be sure to match the positive **(+)** ends of the batteries with the positive terminals marked in the battery compartment.
5. It may take as long as 30 seconds for the **Low Battery** icon to disappear after changing batteries.

CAUTION: Incorrect battery installation can damage the thermostat and void the warranty.

CONFIGURATION AND OPERATION

The configuration menu allows you to set certain thermostat operating characteristics to your system or personal requirements. Move the **SYSTEM** switch to the **OFF** position, then press and hold the **PRGM** and **RUN** buttons for 3 seconds to enter the configuration menu. The display will show the first item in the configuration menu.
Press the **PRGM** button to move to the next menu item or press **TIME** to return to a previous menu item. Use the ⬆ and ⬇ buttons to select. To revert to factory default settings, press the **RESET** button *(See Fig. 1)*. All user's changed settings will revert to factory default settings, Including program settings. To exit the configuration menu and return to normal operation, press the **RUN** button. If no buttons are pressed within 30 seconds, the thermostat will exit the configuration menu. The configuration menu chart summaries the configuration options. An explanation of each option follows.

Step	Press Buttons	Displayed (Factory Defaults)	Press ▲ or ▼ to select	Description
1	**PRGM + RUN** 5 seconds	**CC(FA)**	**FA or SL**	Select fast cooling or slow cooling
2	**PRGM**	**HC (FA)**	**FA or SL**	Select fast heating or slow heating
3	**PRGM**	**bL(2)**	**1-3**	Select display backlight mode
4	**PRGM**	**FL(00)**	**00- 12**	Select filter time in months. A selection of "oo" deactivates the filter feature
5	**PRGM**	**FC(F)**	**F or C**	Select °F or °C Readout
6	**PRGM**	**CL(0)**	**+4 to-4**	Select temperature calibration point up to 4° higher or 4° lower.
7	**PRGM**	**CP(5)**	**0 or 5**	Compressor Lockout delay time. 0 = none, 5 = 5 Minutes
8	**PRGM**	**IC(0)**	**1 or 0**	Intelligent Recovery Option. "1" =Active 0" = Deactivated
9	**PRGM**	**AU(2)**	**2 or 10**	Aux Heat or cool offset 2 = 2° F below "Y" on 10 = 10° F below "Y" on
10	**RUN**	Return to normal operation		Return to normal operation

1 SELECT COOLING CYCLE RATE

The **FA** setting is used to produce shorter cooling cycles. The **SL** setting produces a longer cooling cycle. Both settings produce very accurate temperature control and can be set to your personal preference. **FA** cycles the system at a 0.5°F (0.5°C) differential, and **AUX** at 2.0°F high first stage on SL cycles the system at 1.5°F (1.5°C) differential, and Aux cooling at 2.0°F high first stage on. The default setting is FA.

2 SELECT HEATING CYCLE RATE

The **FA** setting is used to produce shorter heating cycles. The **SL** setting produces a longer heating cycle. Both settings produce very accurate temperature control and can be set to your personal preference. **FA** cycles the heat pump system at a 0.5°F differential and **Aux** heating at 2.0°F below first stage on. **SL** cycles the heat pump system at a 1.5°F differential, and **Aux** heating at 2.0°F below first stage on. The default setting is **FA**.

3 SELECT DISPLAY BACKLIGHT

The display backlight improves display contrast in low lighting conditions. Select **1** for NO backlight display. Select **2** for the backlight to come on for approximately 30 seconds when any button of the thermostat is touched. Select **3** for the backlight to remain on continuously. The default setting is "**2**".
NOTE: When operated from batteries (No "c" terminal connection, or if AC power goes off), the LCD display backlight will be disabled regardless, of which configuration number is selected.

4 SELECT FILTER REPLACEMENT RUN TIME

The thermostat will display the **Filter Alarm** after a set time of operation. This is a reminder to change or clean your air filter. This time can be set from **00** to **12** months In 1 month increments. Selection or **00 WILL CANCEL THIS FEATURE**. When Filter Alarm is displayed, you can clear it by pressing the **"F"** button *(To enter filter program)* and then hold the ▼ and ▼ buttons. This resets the timer and starts counting the days until the next filter change. The default setting is "00".

5 SELECT "°F" OR "°C" READOUT

Changes the display readout to Centigrade or Fahrenheit as required. The default setting is "F".

6 SELECT TEMPERATURE RECALIBRATION

This feature allows you to adjust the displayed room temperature up to. 4° higher or lower. Your thermostat can be accurately calibrated to match your previous thermostat. The current or adjusted room temperature will be displayed on the display. The default setting is "o".

7 SELECT COMPRESSOR LOCKOUT DELAY

To protect the compressor from short cycling, you can select compressor off-time cycle between 0 or 5 minutes. When the thermostat compressor time delay occurs, the **Cool On** or **Heat On** display will flash during compressor lockout The default setting is "5".

8 INTELLIGENT RECOVERY OPTION

The thermostat has an intelligent recovery function that brings your room temperature to the set temperature at exactly the pre-set time by turning on the Heating earlier. Select **1** to activate the intelligent recovery function, Select **0** to deactivate the intelligent recovery function. The default setting is "**0**".

9 SELECT AUX HEATING OR COOLING CONDITIONS:

Users can select "**2**" or "**10**" according to personal requirements. If you select 2°F, the thermostat will determine to activate or deactivate auxiliary system by comparing set temperature and room temperature. If room temperature is 2°F higher than setting temperature in cooling or 2°F lower than setting temperature in Heating, the thermostat will activates auxiliary cooling mode or heating mode. If room temperature is 0°F-2°F higher than setting temperature in cooling or O°F-2°F lower than setting temperature in Heating. The thermostat is in the 1st stage heating or cooling mode.

MANUAL OPERATION

1 HOLD TEMPERATURE

With the **SYSTEM** switch set to **HEAT** or **COOL**, momentarily press the **HOLD** button. **HOLD** will be displayed. Use the ⬇ and ⬆ buttons to adjust the set-point temperature. The thermostat will hold the room temperature at the selected setting until you press the **RUN** button to restart the program operation.

2 TEMPERATURE OVERRIDE

Press the ⬇ and ⬆ buttons until the temperature you want is displayed. The thermostat will override the current programming and keep the room temperature at the selected temperature until the next program period begins. Then the thermostat will automatically revert to the program.

3 CHECK COUNT BACK FOR FILTER REPLACEMENT

a) When in configuration the selections are in months, each month selections are equal to 30 days.
b) To review the remaining days hold the "F" button.
c) To reset the filter days - hold the "F" button *(to enter the filter program)* and then hold the ▲ and ▼ buttons. This resets the timer and starts counting the days until the next filter change.

4 SET CURRENT DAY AND TIME

a) Press the **TIME** button for 3 seconds. The display will show the hours numbers flashing.
b) Press and hold either the ▲ and ▼ button until the correct hour and **AM/PM** designator is reached. (**AM** begins at midnight, **PM** begins at noon).
c) Press the **TIME** button again. The display will show the minutes numbers flashing.
d) Press and hold either the ▲ and ▼ button until the correct minutes are reached.
e) Press the **TIME** button again. The display will show the day of the week flashing.
f) Press and hold either the ▲ and ▼ button until the correct weekday is selected.
g) Press the **RUN** button once. The display will now show the correct day of the week and the correct time.
Note: The time of day clock **MUST** be set to the correct day and time in order for the programmed times to be correct.

PLANNING YOUR PROGRAM

Look at the factory preprogrammed times and temperatures shown in the Factory default program setting. If this program will suit your needs, simply press the RUN button to begin running the factory preset program.
If you wish to change the preprogrammed time and temperature, follow these steps:

Determine the time periods and temperatures for your program. You must program four periods for each day. However, you may use the same heating and cooling temperatures for consecutive time periods. You can choose heating temperature, cooling temperature and start time independently. *(For example, you may select 5:00 am AND 70° F as the weekday 1st period heating start time and temperature and also choose 7:00 AM and 76° F as the weekday 1st period cooling start time and temperature.)*
Use the table below to plan your program time periods and the temperatures you want during each period. Fill in the completed table to have a record of your program.

Example Heating / Cooling Schedule Plan (Factory default program setting)

		weekdays (5days)		Saturday & Sunday	
Mode	Period	Start Time	Temperature	Start Time	Temperature
1	1st	6:00 AM	70°F (21°C)	6:00 AM	70°F (21°C)
Heat	2nd	8:00 AM	62°F (16°C)	8:00 AM	62° F (16°C)
	3rd	6:00 PM	70°F (21°C)	6:00 PM	70°F (21°C)
	4th	10:00 PM	62°F (16°C)	10:00 PM	62°F (16°C)
Cool	1st	6:00 AM	75°F (24°C)	6:00 AM	75°F (24°C)
	2nd	8:00 AM	83°F (28°C)	8:00 AM	83°F (28°C)
	3rd	6:00 PM	75°F (24°C)	6:00 PM	75°F (24°C)
	4th	10:00 PM	78°F (26°C)	10:00 PM	78°F (26°C)

Plan your Program Setting Heating/ Cooling

		weekdays (5days)		Saturday & Sunday	
Mode	Period	Start Time	Temperature	Start Time	Temperature
1	1st				
Heat	2nd				
	3rd				
	4th				
Cool	1st				
	2nd				
	3rd				
	4th				

ENTER THE HEATING PROGRAM

1. Move the **SYSTEM** switch to the **HEAT** position
2. Press **PRGM** once. **PRGM SETTING** will display, and "MON TUE WED THU FRI" (indicating weekday program) will appear in the display (flashing). Also displayed are the current programmed start time for the first healing period (flashing), and the currently programmed temperature.
3. Press the ▲ and ▼ buttons to select the desired first heating period start time. The time will change in 15 minute increments. When your selected time is displayed, press the **TIME** button to change to the temperature mode.
4. Press the ▲ and ▼ buttons to select the desired first heating period temperature.
5. Press **PRGM** once, the currently programmed start time and set point for the 2nd heating program will appear.
6. Repeat steps 3 and 4 to select the start time and heating temperature for the 2nd heating program period.
7. Repeat steps 3 thru 5 for the 3rd and 4th heating program periods.
8. Press **PRGM** once. **PRGM SETTING** will display, and "SAT SUN" (indicating weekday program) will appear in the display (flashing). Also displayed are the current programmed start time for the 1st heating period (flashing), and the currently programmed temperature.
9. Repeat steps 3 thru 7 to complete Saturday and Sunday programming.
10. When you have completed entering your heating program, press **RUN.**

ENTER THE COOLING PROGRAM

Caution: If the outside temperature is below 50ºF/10ºC; disconnect power to the cooling system before programming. Energizing the air conditioner compressor during cold weather may cause damage to the compressor.

1. Move the **SYSTEM** switch to the **COOL** position.
2. Follow “Enter the Heating Program” for entering your cooling program, using your selected cooling times and temperatures.

CHECK YOUR PROGRAMMING

Follow these steps to check your thermostat programming one final time before beginning thermostat operation:

1. Move the **SYSTEM** switch to **HEAT**
2. Press **PRGM** to view the 1st weekday heating period time and temperature. Each time you press **PRGM** the next heating period time and temperature will be displayed in sequence for weekday, then Saturday and Sunday program periods *(you may change any time or temperature during this procedure).*
3. Press **RUN**.
4. Move the **SYSTEM** switch to **COOL**
5. Repeat step 2 to check the cooling program
6. Move the **SYSTEM** switch to **HEAT** or **COOL** and press **RUN** to begin program operation.

REVERT TO FACTORY DEFAULT PROGRAM SETTINGS

Press the **RESET** button. All user's changed settings will revert to factory default settings (Including configuration settings).

TROUBLESHOOTING

If a voltage spike or static discharge blanks out the display or causes erratic thermostat operation, you can reset the thermostat by pressing the reset button (See Figure 1). If the thermostat has power, and has been reset; and still does not function correctly, contact your heating/cooling service contractor.

Symptom	Possible Cause	Corrective Action
No Heat/No Cool/No Fan	1.Blown fuse or tripped circuit breaker 2.Furnace power switches to OFF. 3.Furnace blower compartment door or panel loose or not property installed	Replace fuse or reset breaker Turn switch to ON Replace door panel in proper position to engage safety interlock or door switch.
No Heat	1.Pilot light not lit. 2.System switch not set to Heat 3.Loose connection to thermostat or system 4.Furnace Lockout Condition. Heat may also be intermittent 5.Heating System Requires service or thermostat requires replacement	Relight Pilot Set System Switch to Heat and raise set point above room temperature Verify thermostat and system wires are securely attached Many furnaces have safety devices that shut the system down when a lockout condition occurs If the heat works intermittently, contact the furnace manufacturer or local service person for assistance. Diagnostic: Set System Switch to Heat and raise the Set point above room temperature. Within a few seconds the thermostat should make a soft click sound. This sound usually indicates the thermostat is working property. If the thermostat does not click, try the reset operation listed above. If the thermostat does not click after being reset, contact your heating and cooling service person or place of purchase for replacement. If the thermostat clicks. Contact the furnace manufacturer or a service person to verify the heating system is operating correctly.

Symptom	Possible Cause	Corrective Action
No Cool	1.System Switch not set to Cool 2.Loose Connection to thermostat or System 3.Compressor lock-out is activated	Set system switch to Cool and lower set point below room temperature. Verify thermostat and system wires are securely attached Wait five minutes until the compressor protection time is up. There may be up to a five minute delay before the thermostat can activate the compressor if the compressor lock-out option is selected in the configuration menu.
Heat, Cool or Fan Runs Constantly	1.Fan switch set to FAN ON 2.Possible short in wiring 3.Possible short in thermostat 4.Possible short in Heat/Cool/Fan system	Check each wire connection to verify they are not shorted or touching together. No bare wire should stick out from under terminal screws. Try resetting the thermostat as described below. If the condition persists, the manufacturer of your system or service person can instruct you on how to test the Heat/Cool system for correct operation. If the system operates correctly, replace the thermostat.
Heating Cycles too fast or too slow	1.The location of the thermostat and/or the size of the heating system may be influencing the cycle rate.	Item 2 in the Configuration Menu is the adjustment that controls the heating cycle rate. If an acceptable cycle rate is not achieved using the FA or SL adjustment, contact a local service person for additional suggestions.
Cooling cycles too last or too slow	1.The location or the thermostat and/or the size of the heating system may be influencing the cycle rate.	Item 1 in the Configuration Menu Is the adjustment that controls the cooling cycle rate. If an acceptable cycle rate is not achieved using the FA or SL adjustment, contact a local service person for additional suggestions.
Thermostat settings and thermometer disagree	Thermostat thermometer requires adjustment	The thermostat temperature callibration can be adjusted +/- 4 degrees as listed in item 6 of the configuration menu. No other adjustment is posible
Clock looses or gains time	1.Loss of power to thermostat and low batteries	The thermostat will maintain its program in memory even with no power and no batteries, but the clock time will be incorrect when power is restored. See No Heat/No Cool/No Fan above tor items to check in the system.
Thermostat does not follow program	1. AM or PM set incorrectly in program 2. AM or PM set incorrectly on the clock 3. Voltage spike or static discharge	Check current clock and program setting including the AM or PM designation for each time period If a voltage spike or static discharge occurs, use the Reset Operation listed above.
Blank display and/or keypad not responding	1. Loss of power and dead batteries. 2. Voltage spike or static discharge	Replace batteries and check heat/cool system tor proper operation. If a voltage spike or static discharge occurs, use the Reset Operation listed above.

WARRANTY POLICY

Warrants the following

Only cataloged products sold to distributors are warranted to the original purchaser, and to be free from defects in material and workmanship, for a period of one (1) year from the date of purchase, unless specified in writing for a different period. Prior to returning this product to us, the purchaser shall give us notice in writing stating how this product fails to fulfill this warranty. No product shall be accepted for repair or replacement without a required written notice and without prior written authorization and shipp1ng address having been received by the purchaser. Only our factory is authorized to perform services under this warranty.

Transportation charges are to be prepaid by the purchaser.

This warranty does not extend to any product that has been subjected to misuse, abuse, neglect, accidents, alternations, improper installation or use in violation of the printed instructions furnished by us. This warranty neither applies to batteries not deterioration of nor damage to the product caused by the use of faulty batteries.

WE SHALL, NOT IN ANY EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty gives you specific legal rights, and you also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, or implied warranties, so the above limitations or exclusion may not apply to you.