

Duracraft®

Programmable Thermostat

by Duracraft



OWNER'S GUIDE

Weekday/Weekend (5-day/ 2-day)
Programmable Heat and/or Cool
Low Voltage (20 to 30 Vac)
Thermostat and Mounting Plate
Model TD2400



69-1120

Welcome to the world of comfort and energy savings with your new Duracraft Programmable Thermostat.

Your new thermostat will automatically control the temperature in your home, keeping you comfortable while saving energy when programmed according to the instructions in this manual.

Direct any questions concerning the application of this thermostat to Duracraft Consumer Services at 1-800-554-4558, Monday-Friday 7:00 a.m.-5:30 p.m., Eastern time.



RECYCLING THERMOSTAT

If this thermostat is replacing a thermostat that contains mercury in a sealed tube, do *not* place your old thermostat in the trash. Contact your local waste management authority for instructions regarding recycling and the proper disposal of your old thermostat.

If you have questions, call Duracraft at 1-800-554-4558.

Fig. 1. Typical location of a mercury switch in a thermostat.

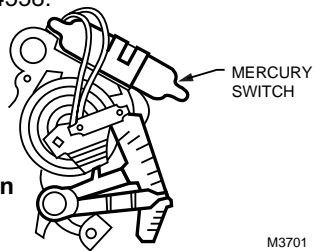


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Limited One-Year Warranty	Inside Back Cover

Step 1. Prepare for Installation

- ❑ Check Table 1 to make sure this thermostat is compatible with your system. If not, return to retailer. For more information, call Duracraft Consumer Services, toll-free 1-800-554-4558.

Table 1. Compatibility Chart.

System Type	Compatible With TD2400
Gas—Standing Pilot	Yes
Gas—Electronic Ignition	Yes
Gas-Fired Boilers	Yes ^{a,b}
Gas—Millivolt	No
Oil-Fired Boilers	Yes ^{a,b}
Oil-Fired Furnace	Yes
Electric Furnace	Yes
Electric Air Conditioning	Yes
Baseboard Electric (120/240 Line Volt)	No
Heat Pumps/Multistage Equipment	No

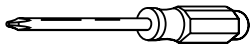
Not compatible with any 120/240 volt circuit.

^aCompatible with 2-wire Honeywell zone valves. Isolating relay required for 3-wire thermostats for zone valves.

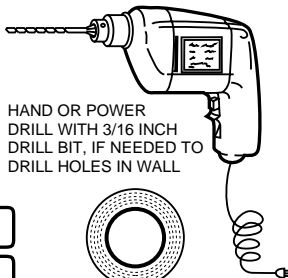
Not compatible with 2-wire White-Rodgers no. 1361 valves.

^bCompatible with hot water baseboard systems. Will not work efficiently on steam or gravity systems.

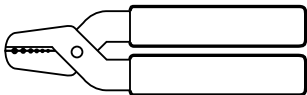
- ❑ Acquire tools and items as needed (below). Also purchase two AA alkaline batteries; we recommend Energizer® batteries.



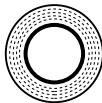
CROSS-RECESSED
SCREWDRIVER



HAND OR POWER
DRILL WITH 3/16 INCH
DRILL BIT, IF NEEDED TO
DRILL HOLES IN WALL



WIRE CUTTER/STRIPPER OR SHARP
KNIFE, IF NEEDED TO STRIP WIRES



MASKING TAPE, IF
NEEDED TO LABEL WIRES
AS DISCONNECTED FROM
OLD THERMOSTAT



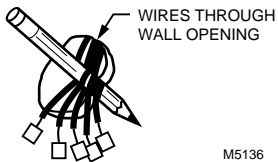
LEVEL, IF NEEDED TO LEVEL
THERMOSTAT FOR APPEARANCE

M878B

Step 2. Remove Old Thermostat

- ❑ Test to make certain that your heating and cooling systems are working properly. If either does not work, contact your local heating/air conditioning dealer. To avoid compressor damage, do not operate the cooling system when outdoor temperature is below 50°F (10°C).
- ❑ TURN OFF POWER to system at the furnace, or at the fuse/circuit breaker panel.
- ❑ Carefully unpack your new thermostat and mounting plate; save package of screws, instructions and receipt.
- ❑ Remove cover from old thermostat. If it does not snap off when pulled firmly from the bottom, check for a screw used to lock on the cover.
- ❑ Loosen screws holding thermostat to subbase, wallplate or wall, and lift away.
- ❑ Disconnect wires from old thermostat or subbase. As you disconnect each wire, use

masking tape to label it with the old terminal designation. If there are only two wires, they do not need to be labeled. If there is an extra wire that is not connected to your old thermostat, you will also not be connecting it to your new thermostat. Keep the wires from falling back into the wall by wrapping them around a pencil as shown.



M5136

Replacing a Clock Thermostat that has C or C1 Clock Terminals?

If you are replacing a Honeywell Chronotherm[®] Thermostat, you may find one or two wires that go to the C or C1 clock terminals on the

Chronotherm[®] Thermostat wiring wallplate. Do not allow them to touch, or you may damage your transformer. Disconnect the wires and wrap them separately, using electrical tape. *Do not wrap them together.* Place the wires where they will not interfere with the operation of the new thermostat. Record the colors and terminal designation labels of the remaining wires.

Six or more wires?

If there are six or more wires (excluding clock wires attached to terminals), you most likely have a variation of a heat pump or multistage system. The thermostat is *not* compatible with such systems so return the product to the place of purchase. If you would like information about which programmable thermostats will work with your system, call Duracraft Consumer Services at 1-800-554-4558.

Three thermostat wires?

If you have three wires for heating only and can operate the fan using the fan ON switch, this thermostat will work with your system. However, some hot water (zoned) heating systems have three thermostat wires. The thermostat will not work without installing an isolating relay on these systems. For details, call Duracraft Consumer Services at 1-800-554-4558.

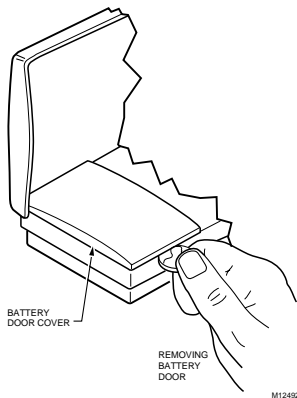
Step 3. Install the Batteries

IMPORTANT

Batteries must be installed for programming and operation of the thermostat and heating/cooling system.

- ❑ Purchase two AA alkaline batteries; non-alkaline batteries will not last as long, and may leak, causing damage to the thermostat or the wall surface. We recommend Energizer® batteries.
- ❑ Open the top cover of thermostat to access control panel and battery compartment.
- ❑ Make sure the thermostat is set in the OFF position.
- ❑ Use a coin to remove battery cover.
- ❑ Install the fresh batteries as shown, making sure positive and negative terminals are oriented correctly.
- ❑ Replace battery cover.

As the batteries are running low, a bAt Lo indicator will flash for 1 to 2 months before batteries run out completely. Replace the batteries as soon as possible after the indicator starts flashing. If you do not replace the batteries sometime during the flashing bAt Lo,



the indicator will eventually stop flashing. bAt-Lo will stay on without flashing, indicating the thermostat and heating/cooling system have stopped working when the batteries are almost completely dead.

After the batteries are completely dead, the bAt-Lo indicator will disappear, leaving a completely blank display.

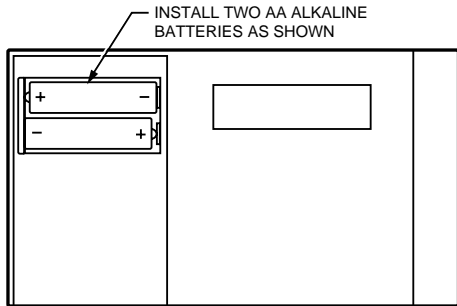
Press down on left ends of batteries to remove. If you insert the new batteries within 20 to 30 seconds of removing the old ones, you will not have to reprogram the thermostat. However, if

the display is blank, the batteries are dead or incorrectly installed and you will have to reprogram. See pages 14 to 17 to reprogram.

IMPORTANT

Although the thermostat has a low battery indicator, replace the batteries once a year to prevent the thermostat and heating/cooling system from shutting down due to lack of battery power.

As a precaution, when leaving home for longer than a month, change batteries before you leave to prevent system from shutting down due to lack of battery power.



M1713

Step 4. Program the Thermostat

After the batteries are installed, the thermostat can be easily programmed in your hand before it is installed on the wall.

If you would prefer to program the thermostat after it is installed on the wall, skip to page 20, and return later to this programming section.

The personal programming chart on pages 12 and 13 may be helpful for planning your program schedule of time and temperature settings for various times of the day.

Four time periods are available during weekdays — WAKE, LEAVE, RETURN, and SLEEP; these periods can be seen individually on the display as you press the Weekday key.

- WAKE is the time period you want the house at a comfortable temperature when you get up and while you get ready for work or school. (This will be a higher temperature during heating season, or a lower temperature during cooling season.)
- LEAVE is the time period you can set for an energy-saving temperature while you are away at work or school. (This will be a lower temperature during heating season, or a higher temperature during cooling season.)
- RETURN is the time period you want the house at a comfortable temperature for activities before bedtime. (Again, higher heat or lower cool.)

- SLEEP is the time period you can set for an energy-saving temperature while you are sleeping. (Again, lower heat or higher cool. For more comfortable sleeping, some people choose not to raise the cool temperature during the night.)

You will set one schedule for weekdays and another for weekends, because your requirements will probably be different for each. Also, during weekends, only the WAKE and SLEEP time periods are available.

Fill in the times and temperatures you desire for weekdays and weekends. If you decide not to program the thermostat, it will automatically control heating at 68°F (20°C), and cooling at 78°F (26°C), 24 hours a day. Also, you do not need to enter a time and temperature program for all periods if your schedule does not require

it. For example, a house that is occupied during weekdays would only require programs for WAKE and SLEEP.

If no program is entered for the weekends, the thermostat will operate on the weekday SLEEP program all weekend.

Before programming, remove the clear plastic overlay covering the display.

When pressing the keys, use the ball of your finger or a soft pencil eraser. Using sharp fingernails or pencil points can damage the keypad.

If you make an error at any time during programming, just press the Run Program key, and continue again at the step where you left off.

Personal Programming Chart

	Weekdays	Heating Program Start Time	Heating Temperature ^a
WAKE		_____	_____
LEAVE		_____	_____
RETURN		_____	_____
SLEEP		_____	_____
	Weekends^b		
WAKE		_____	_____
SLEEP		_____	_____

^aThe temperatures cannot be set any higher than 88°F (31°C) or any lower than 45°F (7°C).

^bIf you decide not to enter weekend programs, the SLEEP from the weekday program will copy to the weekend schedule.

Weekdays	Cooling Program Start Time	Cooling Temperature^a
WAKE	_____	_____
LEAVE	_____	_____
RETURN	_____	_____
SLEEP	_____	_____
Weekends^b		
WAKE	_____	_____
SLEEP	_____	_____

^aThe temperatures cannot be set any higher than 88°F (31°C) or any lower than 45°F (7°C).






^bIf you decide not to enter weekend programs, the SLEEP from the weekday program will copy to the weekend schedule.

NOTE: If you decide not to program the thermostat, it will automatically control heating at 68°F (20°C), and cooling at 78°F (26°C), 24 hours a day.

This guide can be used for programming your new thermostat.



NOTE: Batteries are required for operation and programming. When inserting batteries, set system switch to OFF. Remove battery door (on thermostat left side) using a coin at the bottom. Follow instructions on pages 8 and 9. Also note that the label inside the battery cover contains an abbreviated set of programming procedures for the thermostat.

Set Current Time/Day





To set time, press and release  once, press  until current time shows. To set day, press and release  again, press  until current day shows; then press .


Heating Program

With System switch at Heat, press and release  once. WAKE, MON FRI (Monday-Friday), and SET appear on display.

Use ^{Time}  to program WAKE time and ^{TEMP}  to program WAKE temperature for MON FRI


(Monday-Friday). Repeat sequence for LEAVE, RETURN, SLEEP.

Press ^{Weekend}  until SAT SUN (Saturday-Sunday), WAKE and SET appear on display. Use ^{Time}  to program WAKE time and ^{TEMP}  to program WAKE temperature for SAT SUN (Saturday-Sunday). ^{Time} 

Repeat sequence for SLEEP. Press and release ^{Run Program}  to start the program.



Cooling Program




With System switch at Cool, follow the same instructions as for the Heating Program.


After programming, adjust the fan and system switches as desired. Press and release ^{Run Program}  to start the program.

A quick guide for operating or making changes follows.

NOTE: System switch must be set to Heat or Cool to perform the following:

Temporarily Change temperature *for current period only*—Press  ; temporary indicator will show on display and cancel itself at the next scheduled change; to cancel sooner, press  .

Hold a temperature indefinitely (such as if on vacation)—Press  and  ; HOLD will appear on display; to cancel, press  .

Check Current Temperature Setting—Press  . (If using TEMPORARY CHANGE or HOLD, pressing this will cancel your change.)

Check Programs—Press ^{Weekday} 0 , ^{Weekend} 0 repeatedly to see each time and temperature; then press ^{Run Program} 0 .

Cancel Program—Press ^{Weekday} 0 , ^{Weekend} 0 until program to cancel shows; then press ^{Clear} 0 .

Check Usage — Press ^{Usage} 0 for length of time heat or air conditioning has been running today since midnight; press again for yesterday's usage, press again for cumulative; press ^{Clear} 0 to clear cumulative reading if desired; then press ^{Run Program} 0 .

Permanently Change a Program—Repeat steps under Heating Program or Cooling Program (page 14 and 15) as applicable.

Return to normal program or start program —Press ^{Run Program} 0 .

Step 5. Adjust Fan Operation Switch, As Required

- The thermostat fan operation switch, labeled FUEL SWITCH (see illustration on page 19) is factory-set in the F position. This is the correct setting for most systems. If your system is an electric heat system, set the switch to E. The E setting will allow the fan to turn on immediately with the heating or cooling in a system where the G terminal is connected.

Step 6. Adjust System On-Time, °F/°C, As Required

- The thermostat on-time is factory-set for a warm air, gas or oil heating system. If you are installing it on another type of system, adjust the on-time accordingly by setting screws A and B on the back of the thermostat. Use the heating system table shown in the illustration (page 19) as a guide. The system on-time should be optimized according to the type of system to minimize room temperature swings. Setting the screw “out one turn” means turning the screw approximately 360° counterclockwise, or about one complete turn.

In the unlikely event that you want a longer furnace on-time, readjust screws A and/or B as follows:

First, turn in both screws completely, then adjust for system type:

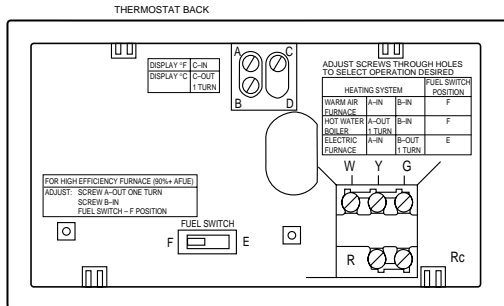
- Warm Air Furnace—Set at the Hot Water setting (A—out one turn, B—leave in).
- Electric Furnace—Leave at the Warm Air Furnace setting (A—leave in, B—leave in).

NOTE: This thermostat does not have a setting for steam/gravity air. Cycles would not be long enough for accurate temperature control.

IMPORTANT

When using a high efficiency furnace such as a 90% or greater AFUE (Average Fuel Utilization Efficiency) unit, adjust screw A out one turn and leave screw B in.

- ❑ The thermostat is set to read the temperature in degrees Fahrenheit. If readings are desired in degrees Celsius, adjust screw C out one turn, as shown in illustration.

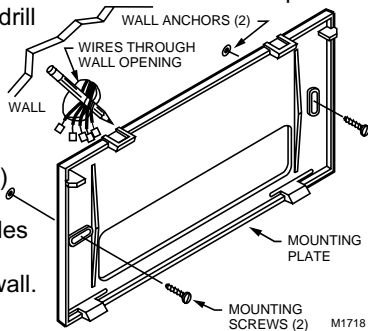


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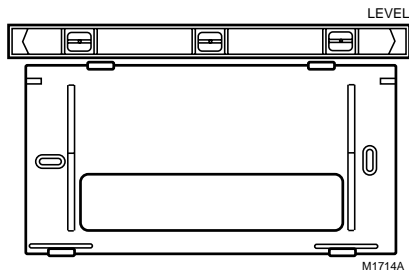
Step 7. Mount Thermostat Mounting Plate

- ❑ Position mounting plate on wall. Use level to make sure mounting plate is level. Use a pencil to mark the two mounting holes.
- ❑ Remove mounting plate from wall, and drill 3/16-inch holes in wall (if drywall) as marked. For firmer material such as plaster or wood, drill

7/32-inch holes. Gently tap anchors (provided) into drilled holes until flush with the wall.



- ❑ Reposition mounting plate over holes, pulling wires through wiring opening. Loosely insert two mounting screws into holes.
- ❑ Level for appearance only; thermostat will function properly even when not level. Tighten mounting screws.



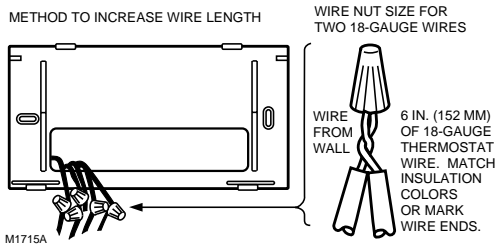
Step 8. Wire Thermostat Terminals

NOTE: All wiring must comply with local codes and ordinances. If unsure about household wiring procedures, call your local heating/air conditioning contractor.

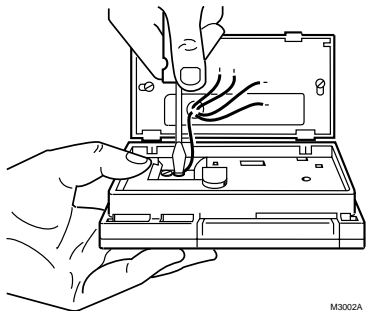
Refer to masking tape labels you placed on wires when you removed your old thermostat.

- ❑ Match the letter of your old thermostat wire with the terminal of the corresponding letter on the back of your new thermostat. Refer to illustrations on pages 23 and 24. Hold the thermostat as shown to minimize need for wire extenders. If wires are still too short, use wire connectors (purchased locally) to extend wires. See figure for guidelines on using wire extenders.

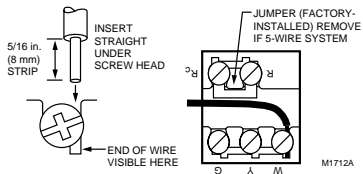
- ❑ In 5-wire installations only, be sure to remove the factory-installed jumper connecting terminals R and Rc.



- ❑ Loosen the terminal screws and slip each wire beneath its matching terminal. See illustration (lower right) for wire insertion technique. securely tighten terminals.
- ❑ Plug the hole in the wall with insulation to help prevent drafts from adversely affecting thermostat operation.

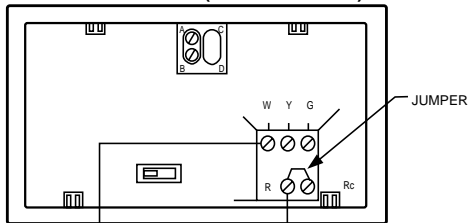


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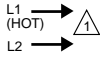


M1712A

2-WIRE HEAT-ONLY (JUMPER INTACT)



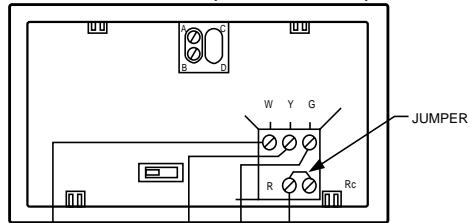
HEATING
RELAY OR
VALVE COIL



1 POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

M1709B

4-WIRE HEAT/COOL (JUMPER INTACT)



HEATING
RELAY OR
VALVE COIL

COOLING
CONTACTOR
COIL

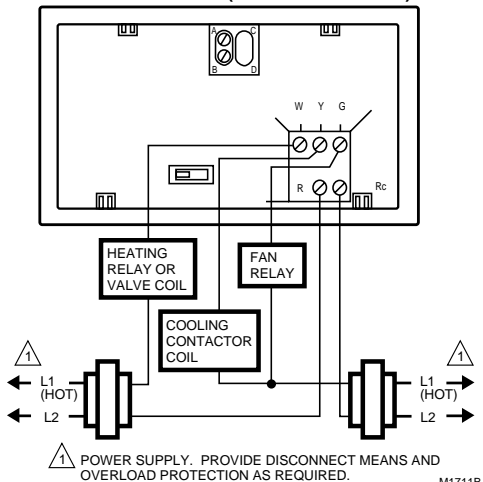
FAN
RELAY



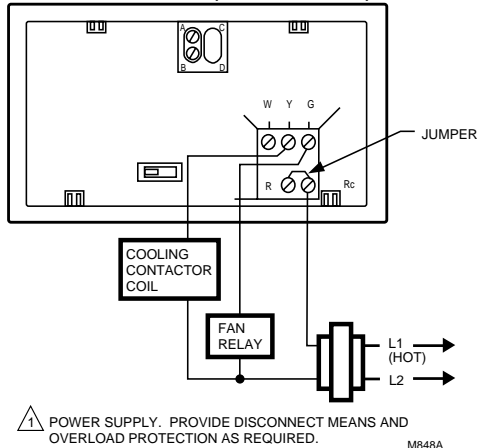
1 POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

M1710B

5-WIRE HEAT/COOL (JUMPER REMOVED)



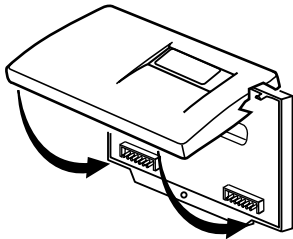
3-WIRE COOL-ONLY (JUMPER INTACT)



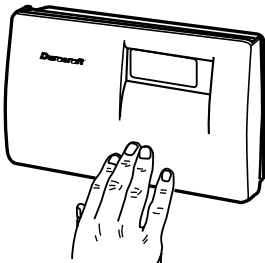
Step 9. Mount The Thermostat

NOTE: To remove thermostat from wall, first pull out at bottom of thermostat, then remove top.

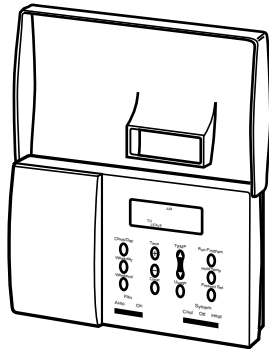
A. ENGAGE TABS AT TOP OF THERMOSTAT AND SUBBASE.



B. PRESS LOWER EDGE OF CASE TO LATCH.



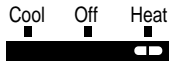
C. SWING OPEN COVER TO CHECK OPERATION.



M12494

Step 10. Check Thermostat Operation After Programming and Installing Heating

Do *not* check heating system operation by jumpering thermostat terminals, such as the gas valve, zone valve, oil burner control at the primary control. This will damage the thermostat; Instead, jumper R and W wires at the thermostat.



Move the System switch to Heat and the Fan switch to Auto.

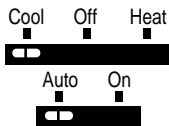
Press TEMP key until the setting is about 10°F (6°C) above room temperature. Heating should start and the fan should run after a short delay (immediately if fan operation switch is set in E position).

Press TEMP key until setting is about 10°F (6°C) below room temperature. The heating equipment should shut off.

Cooling

To avoid possible compressor damage, do not operate the cooling system when outside temperature is below 50°F (10°C). See compressor manufacturer instructions for further information.

NOTE: When cooling setting is changed, thermostat may delay up to five minutes before turning on the air conditioner. This delay protects the compressor.

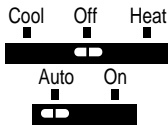


Move the System switch to Cool and the Fan switch to Auto.



Press TEMP key until setting is about 10°F (6°C) below room temperature. The cooling equipment and fan should start.

Press TEMP key until the setting is about 10°F (6°C) above room temperature. The cooling equipment and fan should stop.



Move the System switch to Off, with the Fan switch still at Auto. The system and fan should be off.

Step 11. Set The Fan and System Switches

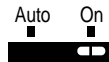
First set the Fan switch.

Fan Auto: Normal setting for most homes. A single-speed fan will turn on automatically with the air conditioner or furnace. A two-speed fan will usually run on high with the air conditioner and on low with the furnace.



Exception: If Fan Operation Switch on back of thermostat is set to E position (see page 16), fan will operate with furnace only.

Fan On: The fan runs continuously. Use for improved air circulation during special occasions or for more efficient electronic air cleaning. (In a heat-only system, fan will run continuously only if fan relay is connected to the thermostat.)

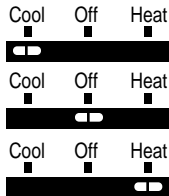


Then set the System switch.

Cool: The thermostat controls your air conditioning system.

Off: Both the heating and air conditioning systems are off.

Heat: The thermostat controls your heating system.



Troubleshooting Guide

IF...

Display will not come on.

Temperature display will not go lower than 45°F (7°C) or higher than 88°F (31°C) during programming.

Temperature change occurs at the wrong times.

THEN...

- Set the System switch to Off. Remove batteries. Insert backward for at least 5 seconds to reset thermostat. Replace batteries correctly. Display should come on.
- Make sure batteries are fresh and installed correctly.
- Gently clean battery contacts using a soft pencil eraser. Do not use anything abrasive on the clips.
- You have reached the temperature setting limit. The setting range is 45°F to 88°F (7°C to 31°C).
- Check the program times for the period in question. Be sure that AM and PM indications are correct. Make sure the current day and time are correct. Reprogram if necessary.

Heating will not come on.

- Check that switch on thermostat is set to Heat.
- Check the system fuse or circuit breaker and replace or reset if necessary.
- Check for correct wiring and good connections.
- Jumper wires R and W. If heat does not come on, contact your heating dealer.
- If display is blank or says bAt Lo, install fresh batteries.
- If temperature setting is higher than current temperature, and the display says Heat, contact Duracraft Consumer Services at 1-800-554-4558.

Cooling will not come on.

- Check that switch on thermostat is set to Cool.
- Check the system fuse or circuit breaker and replace or reset if necessary.
- Check for correct wiring and good connections.
- Jumper wires Rc and Y. If cooling does not come on, contact your cooling dealer.
- If display is blank or says bAt Lo, install fresh batteries.

**Cooling will not come on.
(continued)**

- ❑ The thermostat has a built-in time delay on cooling. Allow 5 to 10 minutes after changing the setting before the air conditioner starts.
- ❑ Make sure outdoor disconnect is energized (on).
- ❑ If temperature setting is lower than current temperature, and the display says Cool, move system switch from Cool to Off for 10 minutes. After 10 minutes, return switch to Cool position. If air conditioner comes on, compressor may have reached its high limit temperature protection and shut down. If air conditioner does not come on after the 10 minutes and the display says Cool, contact Duracraft Consumer Services at 1-800-554-4558.
- ❑ If 2- or 4-wire installation, verify R-Rc jumper is installed.
- ❑ Press Present Set key to check the current temperature setting.
- ❑ If desired, change the temperature setting. See page 16.

The house is too warm or too cool.

SYSTEM ON indicator is lit, but no heat is coming from the registers.

The furnace cycles too frequently or the system cycle length is too short or too long.

The thermostat's current setting does not match the display temperature to within $\pm 1^\circ$.

- Allow time for the furnace to heat up and the fan to come on before checking for heat at the register. (Check to make sure system on-time is set correctly according to page 18 and 19.)
- Readjust system on-time according to instructions on pages 18 and 19.
- Check that the wiring hole in the wall behind the wallplate has been plugged with insulation to prevent drafts that might adversely affect thermostat operation.
- Be aware that it is normal for the current setting and display temperature to differ on occasion.
- During recovery from setback or setup, setting and display temperatures may differ for up to 30 minutes after recovery period.

Incorrect room temperature showing on thermostat display.

- Make sure the hole behind the thermostat is plugged with insulation to help prevent drafts from adversely affecting the thermostat operation.
- The thermostat is factory-calibrated and cannot be adjusted.

Toll-free Customer Assistance

For all questions concerning this thermostat, please read and follow the instructions. If additional assistance is needed, call Duracraft Consumer Services toll-free at 1-800-554-4558, Monday - Friday, 7:00 a.m. - 5:30 p.m. Eastern time.

Before you call, please have the following information available—thermostat model number and date code, kind of heating/cooling system (i.e., hot water, warm air, oil, gas, etc.), number of wires connected to the thermostat.

NOTICE

This equipment is a Class B digital apparatus, which complies with Canadian Radio Interference Regulations, CRC c.1374.

Limited One-Year Warranty

Duracraft Corporation warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of one (1) year from the date of purchase by the consumer. If, at any time during the warranty period, the product is defective or malfunctions, Duracraft shall repair or replace it (at Duracraft's option) within a reasonable period of time.

If the product is defective,

- (i) return it, with a bill of sale or other dated proof of purchase, to the retailer from which you purchased it, or
- (ii) package it carefully, along with proof of purchase (including date of purchase) and a short description of the malfunction, and mail it, postage prepaid, to the following address:
Duracraft Corporation
Consumer Services
250 Turnpike Road
Southborough, MA 01772

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Duracraft that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

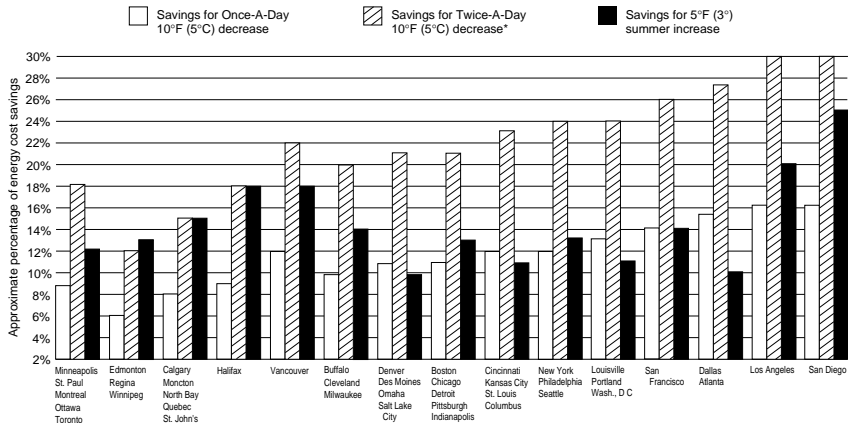
Duracraft's sole responsibility shall be to repair or replace the product within the terms stated above. DURACRAFT SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

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This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

If you have any questions concerning this warranty, please write Duracraft Corporation, Consumer Services, 250 Turnpike Road, Southborough, MA 01772 or call 1-800-544-4558. Monday-Friday, 7:00 a.m. to 5:30 p.m., Eastern time.

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