

INSTALLATION AND OPERATING INSTRUCTIONS

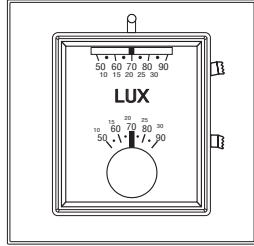


LUX PRODUCTS CORPORATION
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52022

T40-1143SA HEATING & COOLING THERMOSTAT

ATTENTION : not for use with compressors without time delays.



SPECIFICATIONS

ELECTRICAL RATING

24 Vac (30 Vac Maximum)

SWITCH ACTION

Open contact switch

ANTICIPATOR RATING

(HEATING) 0.15A to 1.2A

(COOLING) Fixed 24 VAC

TEMPERATURE RANGE

50°F to 90°F

INSTALLATION & OPERATION

1) THERMOSTAT LOCATION

For accurate temperature control and comfort, correct location is very important. On new installations, the guidelines listed below should be followed as closely as possible. When replacing an old thermostat, install the new one in the same location unless these conditions suggest otherwise.

1. Locate the thermostat on an inside wall about five feet above the floor, where it is easy to install and adjust. It should be in a room that is used often, such as a family room.
2. Do not install it where there are unusual heating conditions, such as direct sunlight, close to a lamp, radio, television, radiator, register, near a fireplace, or other heat producing appliance. Also, check for hot water pipes within the wall, or a stove on the other side of the wall.
3. Do not locate in unusual cooling conditions, such as on an outside wall, or one separating an unheated room, or in drafts from stairwells, doors, or windows.
4. Do not locate in a damp or humid area. This can shorten thermostat life due to corrosion.
5. Do not locate where air circulation is poor, such as in a corner, alcove, or behind an open door.
6. Do not install until all construction work and painting have been completed.

2) TOOLS REQUIRED

Wirestripper or knife, drill with $\frac{3}{16}$ " bit, screwdriver, level and a pencil.

3) REMOVING OLD THERMOSTAT

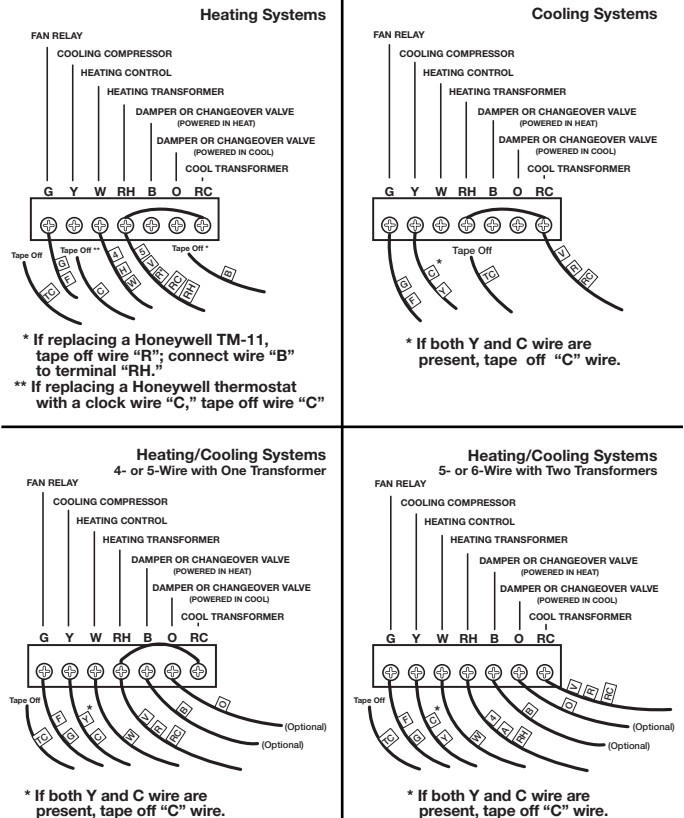
Please read all instructions carefully. As you complete each step, check the adjoining square .

- Disconnect electricity and turn off gas to the heater.
- Remove cover from old thermostat.
- Disconnect wires from thermostat, making sure they do not fall back inside the wall. Make note of wires and to which terminals they are attached as you disconnect them. For example: "Yellow wire to terminal Y, Red wire to terminal RH," etc.
- Strip insulation $\frac{3}{8}$ " from wire ends and clean off any corrosion.
- Loosen all screws on the old thermostat and remove it from the wall.
- Fill wall opening with non-combustible insulation to prevent drafts from affecting thermostat.

4) INSTALLING NEW THERMOSTAT

- Place new decorative wall plate (if supplied), Figure 4, over wall opening. Decorative wall plate can optionally be left off.
- Remove Front Cover of new thermostat by inserting a finger in the side of the thermostat and gently prying away each corner. Remove Base, Figure 2, from Sub-Base, Figure 3, by loosening three captive screws.
- Place Sub-Base, Figure 3, on wallplate over wall opening. Mark wall with pencil at mounting holes as shown in Figure 2. Now lay wallplate and Sub-Base to the side.
- Drill two holes with $\frac{3}{16}$ " bit, 1" deep.
- Insert plastic screw anchors into drilled holes, flush with wall surface.
- Bring wires through large hole in decorative wall plate and through Hole For Wires in Sub-Base.
- Referring to your notes and the following diagrams, attach wires to terminal screws shown in Figure 2. Make sure bare metal wires do not touch each other. Push all excess wire back into wall.

WIRING DIAGRAMS



These diagrams below are provided for new installations or unreferenced wires.

TYPICAL HOOKUP FOR 2-WIRE 24V HEATING SYSTEM AND MILLIVOLT SYSTEM

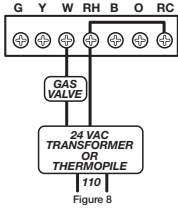


Figure 8

TYPICAL HOOKUP FOR 3-WIRE HEAT SYSTEM IF THIRD WIRE IS FAN WIRE

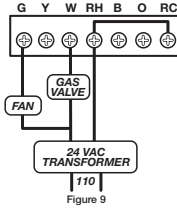


Figure 9

TYPICAL COOLING AND HEATING SYSTEM (4-WIRE)

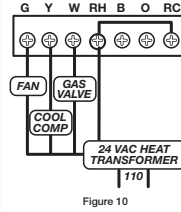


Figure 10

TYPICAL COOLING AND HEATING SYSTEM (5-WIRE)

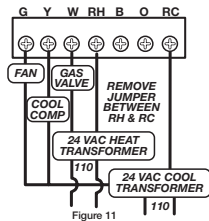


Figure 11

TYPICAL SINGLE-STAGE HEAT PUMP WIRING

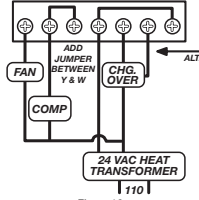


Figure 12

NOTE

If you have an electric system and the blower does not operate after installation, find the factory installed yellow wire currently attached to the "Y" terminal and move it to the "A" terminal on the sub-base.

- Place Base, Figure 3, over Sub-Base and attach by tightening three captive screws.
- Fasten loosely to wall using two mounting screws. Place a level against the bottom of the Base, adjust until it is level and then tighten mounting screws to secure.
- Find anticipator setting on old thermostat. Setting on new thermostat should be the same. Do this by carefully sliding the long pointer, Figure 2, over desired number printed on the anticipator. If old anticipator setting cannot be determined, look on gas control on furnace, or set at .6. During heating season, furnace should operate about five times an hour. If adjustments are necessary, move heat anticipator pointer slightly and recheck. **NOTE: Set pointer to 1.2 for millivolt systems.**
- Attach front cover, Figure 1, to base.
- Turn electricity and gas back on and set pointer on top of thermostat to desired temperature.
- FOR HEATING: Set slide switch to "Heat". Set fan switch to "Auto".
- FOR COOLING: Set slide switch to "Cool". Set fan switch to "Auto".
- FAN: For continuous blower operation, set switch to "ON". For automatic blower operation set fan switch to "Auto". Thermostat will then cycle the blower "on" and "off".

A thermostat can only control temperature near it. If you find that it is uncomfortable some distance away from the thermostat, change the setting in order to compensate for this.

FIGURE 1 FRONT COVER

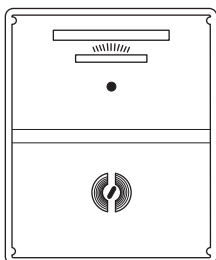


FIGURE 2 BASE

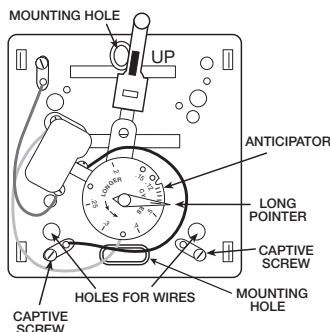


FIGURE 3 SUB-BASE

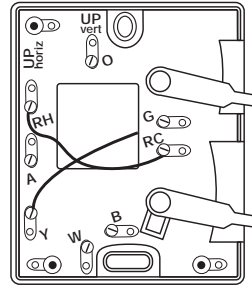
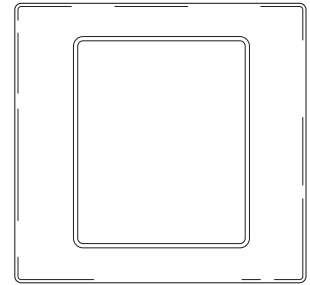


FIGURE 4 DECORATIVE WALL PLATE



TECHNICAL ASSISTANCE

If you have any problems installing or using this thermostat, please carefully and thoroughly review the instruction manual. If you require assistance, please contact our Technical Assistance Department at 856-234-8803 during regular business hours between 8:00AM and 4:30PM Eastern Standard Time, Monday through Friday. You can also receive technical assistance online anytime day or night at <http://www.luxproducts.com>. Our web site offers you answers to the most common technical questions, and also permits you to email your questions to our technical support staff at your convenience.

WARRANTY

Limited Warranty: If this unit fails because of defects in materials or workmanship within three years of date of original purchase, LUX Products Corporation will, at its option, repair or replace it. This warranty does not cover damage by accident, misuse, or failure to follow installation instructions. Implied warranties are limited in duration to three years from date of original purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Please return malfunctioning or defective units to the participating retailer from which purchase was made, along with proof of purchase. Please refer to "TECHNICAL ASSISTANCE" before returning thermostat. Purchaser assumes all risks and liability for incidental and consequential damage resulting from installation and use of this unit. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Applicable in the U.S.A. only.

RECYCLING NOTICE



This product does not contain mercury. However, this product may replace a unit which contains mercury and should not be disposed of in the trash. Contact your local waste management authority for proper disposal instructions for mercury in a sealed glass tube. If you have any questions, please call (856) 234-8803.

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