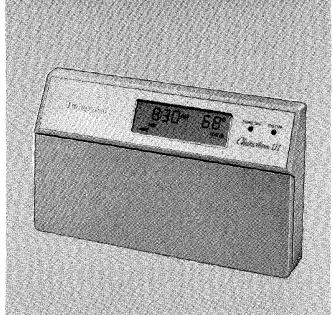
Honeywell

THE T8600, T8601, T8602, T8603 CHRONOTHERM III PROGRAMMABLE FUEL SAVER THERMOSTATS PROVIDE AUTOMATIC CONTROL OF SINGLE STAGE HEATING OR HEATING/COOLING SYSTEMS AND OFFER USERS THE HIGHEST STANDARD OF COMFORT AND CONVENIENCE AVAILABLE WITH ENERGY SAVINGS.

| ☐ T8600 thermostats are powered through the heating/cooling system controls; ideal for replacement application. |
|---|
| ☐ T8601 thermostats are powered direct from transformer, requiring two wires to system transformer; ideal for new construction installation. |
| ☐ T8602 thermostats are powered by three AA alkaline batteries; suitable for 100 percent control compatibility. |
| ☐ T8603 thermostats are powered direct from transformer, and include additional terminals for one, two or three transformer systems. |
| ☐ Thermostats include a wiring wallplate. |
| ☐ Digital clock (liquid crystal display) indicates continuous time, day, current period, and room temperature. Upon inquiry, provides program times and program set points. |
| ☐ All thermostats provide 4 different temperature settings per daily schedule to optimize user comfort and energy savings. |
| □ Different daily schedules may be selected for weekdays, Saturday and Sunday. |
| □ ENRG. SAV. and SYSTEM light-emitting diodes (LEDs) included on T8600, T8601, T8603 models. |
| ☐ Models available with automatic heat/cool changeover. |
| ☐ Batteries packed with devices provide power to maintain clock and memory during power failures in T8600, T8601, T8603 and supply power for operation in T8602. |
| ☐ Thermostat can be programmed in hand or after mounted on wall (batteries must be installed). |
| Temporary program override available by using— WARMER and COOLER keys. SKIP next program key. CHANGE to last program key. |
| ☐ HOLD TEMP key provided for indefinite program override (vacation/holiday). |
| □ Adaptive Intelligent Recovery™ function brings room temperature to programmed temperature at programmed time, maximizing comfort and energy savings. |
| ☐ Adaptive Intelligent Recovery™/conventional recovery selection screw included on back of thermostat. |
| Fan operation switch included on back of SUPER TRADE- LINE models to select either independent or direct thermostat control of fan in heating. |
| |

CHRONOTHERM III FUEL SAVER THERMOSTATS



T8600A-D T8601A-D T8602A-C T8603A-C

S.M. Rev. 4-90 Form Number 68-0056—1 ©Honeywell Inc. 1990

SPECIFICATIONS

· IMPORTANT

THE SPECIFICATIONS GIVEN IN THIS PUBLICATION DO NOT INCLUDE NORMAL MANUFACTURING TOLERANCES. THEREFORE, THIS UNIT MAY NOT MATCH THE LISTED SPECIFICATIONS EXACTLY. ALSO, THIS PRODUCT IS TESTED UNDER CLOSELY CONTROLLED CONDITIONS, AND SOME MINOR DIFFERENCES IN PERFORMANCE CAN BE EXPECTED IF THOSE CONDITIONS ARE CHANGED.

SUPER TRADELINE MODELS

SUPER TRADELINE controls offer features on available on TRADELINE models, and are designed to replace a wide range of Honeywell and competitive controls.

TRADELINÉ models are selected and packaged to provide ease of stocking, ease of handling, and maximum replacement value. Specifications of SUPER TRADELINE and TRADELINE controls are the same except as noted below.

TABLE I-SUPER TRADELINE MODELS.

| THERMOSTAT MODEL | STAGES | | SWITCHING | | | |
|-----------------------|--------|------|-------------------|---------|--|--|
| NUMBER | HEAT | COOL | SYSTEM | FAN | APPLICATION | POWER METHOD |
| T8600C ^{a,b} | 1 | 1 | HEAT-OFF- COOL | ON-AUTO | Gas, oil or electric 24 V systems with option of in- dependent or thermostat- controlled fan in | Powered through the heating or cooling system controls; backup batteries included. |
| T8602C ^c | 1 | 1 | HEAT-OFF- COOL | ON-AUTO | | Powered by three AA alkaline batteries. |
| T8603C | 1 | 1 | HEAT-OFF- COOL | ON-AUTO | heat. | Powered direct from transformer; includes additional terminals for one, two or three transformer systems; backup batteries included. |

^aTypical single-stage heat pump (with external fan control) applications; jumper W and Y.

SUPER TRADELINE FEATURE:

Fan operation switch on back of thermostat to select either independent or direct thermostat control of fan in heating.

ORDERING INFORMATION

WHEN PURCHASING REPLACEMENT AND MODERNIZATION PRODUCTS FROM YOUR TRADELINE WHOLESALER OR YOUR DISTRIBUTOR, REFER TO THE TRADELNE CATALOG OR PRICE SHEETS FOR COMPLETE ORDERING NUMBER, OR SPECIFY—

- 1. Model number; SUPER TRADELINE, if desired.
- 2. Number of heat and cool stages desired.
- 3. System, fan switching desired.
- 4. Application.

IF YOU HAVE ADDITIONAL QUESTIONS, NEED FURTHER INFORMATION, OR WOULD LIKE TO COMMENT ON OUR PRODUCTS OR SERVICES, PLEASE WRITE OR PHONE:

- 1. YOUR LOCAL HONEYWELL RESIDENTIAL SALES OFFICE (CHECK WHITE PAGES OF YOUR PHONE DIRECTORY).
- 2. RESIDENTIAL DIVISION CUSTOMER SERVICE HONEYWELL INC., 1885 DOUGLAS DRIVE NORTH MINNEAPOLIS, MINNESOTA 55422-4386 (612) 542-7500

IN CANADA—HONEYWELL LIMITED/HONEYWELL LIMITEE, 740 ELLESMERE ROAD, SCARBOR-OUGH, ONTARIO M1P 2V9. INTERNATIONAL SALES AND SERVICE OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD.

blncludes 250 ohm, 10 W resistor for low current draw (below 0.08 A) system compatibility.

^cTypical older and commercial electric heat, and water coil applications.

TRADELINE models are selected and packaged to provide ease of stocking, ease of handling and maximum replacement value.

TABLE II—TRADELINE MODELS.

| THERMOSTAT MODEL | STAGES | | SWITCHING | | | | |
|-----------------------|--------|------|------------------------|---------|---|--|--|
| NUMBER | HEAT | COOL | SYSTEM | FAN | APPLICATION | POWER METHOD | |
| T8600A | 1 | | _ | | Gas, oil or electric 24 V | Powered through | |
| T8600B ^a | 1 | _ | HEAT-OFF | | systems with indepen- dently controlled fan in | heating or cooling system controls; | |
| T8600B ^b | 1 | | | ON-AUTO | heat. | backup batteries | |
| T8600C ^c | 1 | 1 | HEAT-OFF-COOL | ON-AUTO | | included. | |
| T8600C ^{c,d} | 1 | 1 | HEAT-OFF-COOL | ON-AUTO | 24 V systems with thermostat-controlled fan on heat and cool. | | |
| T8600D ^e | 1 | 1 | HEAT-OFF- COOL-AUTO | ON-AUTO | Gas, oil or electric 24V systems with independently controlled fan in heat. | | |
| T8601A | 1 | _ | | | Gas, oil or electric | Powered direct from transformer, requires two wires to system transformer; backup | |
| T8601B | 1 | | - | ON-AUTO | 24 V systems with independently controlled | | |
| T8601C ^c | 1 | 1 | HEAT-OFF-COOL | ON-AUTO | fan in heat; ideal for new | | |
| T8601D ^e | 1 | 1 | HEAT-OFF- COOL-AUTO | ON-AUTO | construction installation. | batteries included. | |
| T8602A | 1 | | | | Gas, oil or electric 24 V | Powered by three AA | |
| T8602B ^b | 1 | _ | | ON-AUTO | systems with indepen- dently controlled fan in | alkaline batteries (included). | |
| T8602C | 1 | 1 | HEAT-OFF-COOL | ON-AUTO | heat. | (included). | |
| T8603A | 1 | | | _ | Gas, oil or electric 24 V | Powered from a | |
| T8603B | 1 | | | ON-AUTO | systems with indepen- dently controlled fan in heat. | separate transformer, requiring extra wire(s) to thermostat; backup batteries included. | |

^aWith positive OFF.

LIGHT-EMITTING DIODES (LEDs): Two included on T8600, T8601, T8603 models. SYSTEM LED lights up during thermostat ON cycle, and ENRG. SAV. LED lights up during the LEAVE and SLEEP time periods.

VOLTAGE RATING: 15 to 30 Vac.

CURRENT RATING:

For T8600: 0.08 A minimum to 1.2 A maximum. Current draw must be 0.08 A to 1.2 A in the W or Y circuit when the fan switch is in the ON position, or 0.08 A to 1.2 A total in the Y plus G circuits when the fan switch is in the AUTO position.

For T8601, T8602, T8603: 1.6 A maximum.

OPERATING HUMIDITY RANGE: 5 to 90 percent relative

OPERATIVE AMBIENT TEMPERATURE RANGE: 40° F to 110° F [4° C to 43° C].

SET POINT RANGE: 45° F to 88° F [7° C to 31° C].

CALIBRATION: Self-calibrating thermostat and thermometer to ± 1° F.

SHIPPING TEMPERATURE: minus 20° F to plus 120° F [minus 29° C to plus 49° C]. CYCLES PER HOUR ADJUSTMENT:

Heating—factory-set at 6 cph (adjustable to 1, 3, or 9 cph for special systems).

Cooling-factory-set at 3 cph (not field adjustable). FINISH: Beige matte over decorative brushed metal faceplate.

^dTypical older and commercial electric heat, and water coil applications.

^eIn freezing climates, be sure the cooling compressor has adequate cold start protection.

DIMENSIONS: Thermostat (mounted on wallplate)—7 in. [178 mm] long, 4-1/16 in. [103 mm] high, 1-3/4 in. [44 mm] deep. See Fig. 1 for wallplate dimensions.

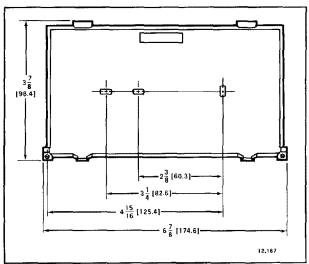


FIG. 1—T8600, T8601, T8602, T8603 WALLPLATE MOUNTING DIMENSIONS IN in. [mm IN BRACKETS].

^bHeat only with fan control.

^cTypical single-stage heat pump (with external fan control) applications; jumper W and Y.

ACCESSORIES:

193121A Cover Plate Assembly includes cover plate, adapter ring and screws. Covers marks left by old thermostat. Allows mounting on vertical or horizontal outlet box. 6-9/10 in. x 4-3/4 in. [175 mm x 121 mm]. TG586A Locking Cover. 202384B Resistor for T8600.

REPLACEMENT PART:

220529A Replacement Door Assembly.

INSTALLATION

COMPATIBILITY

The T8600 Thermostats will replace most heating or heating/cooling system thermostats, and are designed to be part of a Honeywell control system. They can be used with other control systems, but an isolating relay may be needed in the thermostat control circuit. See Table III.

IMPORTANT

If your system needs an isolating relay and one is not installed, no hazard will exist, but the system will not operate. The thermostat will not be damaged unless you connect it directly to 120 Vac.

If the current draw of the primary control is below 0.08A, a 202394B Resistor should be installed on the furnace terminal strip to increase the current draw of the primary control to 0.08A or greater. This would alleviate any compatibility problem between the T8600 Thermostat and the system due to a low current draw. For installation details, refer to instructions packed with the resistor.

The T8601, T8602 and T8603 Thermostats are compatible with other control systems without the need for an isolating relay.

WHEN INSTALLING THIS PRODUCT...

- Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
- 2. Check the ratings given on the product to make sure the product is suitable for your application.
- 3. Installer must be a trained, experienced service technician.
- Allow thermostat to warm to room temperature before programming.
- 5. After installation is complete, check out product operation as provided in these instructions.

CAUTION

Disconnect power supply to prevent electrical shock or equipment damage.

LOCATION

Install thermostat and wallplate about 5 ft. [1.5 m] above the floor in an area with good air circulation at room temperature

Do not install the thermostat where it may be affected by—

- drafts or dead spots behind doors, in corners or under cabinets.
- hot or cold air from ducts.
- radiant heat from sun or appliances.
- concealed pipes and chimneys.
- unheated (uncooled) areas behind the thermostat, such as an outside wall.

If Replacing An Existing Thermostat

Turn thermostat power off at furnace or boiler. A mul-

tiple transformer system may require turning off multiple switches or disconnects. Remove any existing wallplate or subbase from wall. Label each wire with, or write down, the letter or number on the wiring terminal as the wire is removed, to avoid miswiring later.

If New Installation

Run cable to a hole at the selected wall location, and pull about 3 in. [76 mm] of wire through the opening. Color-coded 18 gauge thermostat cable with at least one conductor for each wiring terminal is recommended. Good service practice recommends selection of cable with one or two more conductors than the immediate application requires.

MOUNTING WALLPLATE

Remove thermostat from wallplate (Fig. 2).

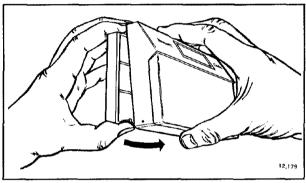


FIG. 2—REMOVING THERMOSTAT FROM WALL-

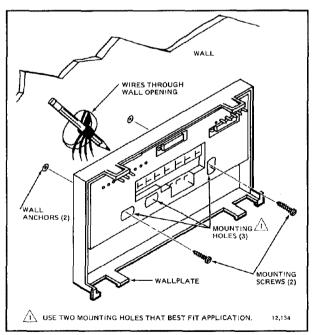


FIG. 3—MOUNTING WALLPLATE ON WALL.

TABLE III—T8600 THERMOSTAT AND SYSTEM COMPATIBILITY (not applicable to T8601, T8602, T8603)

| Manufacturer Model No. | Compatible | Solution | Manufacturer Model No. | Compatible | Solution |
|-------------------------------|------------|---------------------------------------|----------------------------------|------------|--------------------|
| ELECTRIC HEAT RELAYS | | | Standing Pilot | | |
| Honeywell R841C | yes | | Honeywell (all) | yes | |
| Klixon 51172 | yes | | OIL SYSTEMS | | |
| GAS SYSTEMS | | | Interrupted Ignition | | |
| Direct Spark Ignition Modu | le | | Honeywell R8404A | yes | |
| Honeywell S825C | yes | | Honeywell R8185E | yes | |
| Honeywell S825D | yes | | Robertshaw SJ4001-2001 | no | R8239D1015 |
| Honeywell S87B | yes | | White-Rodgers 669-430 | yes | |
| Fenwal 05-162426 | no | R8239D1015 | Constant Ignition | | |
| Fenwal 05-21 | no | R8239D1015 | Honeywell R8184G | yes | |
| Intermittent Pilot Module (n | on 100% s | hutoff) | Robertshaw SJ4007-204 | no | R8239D1015 |
| Honeywell S86A | yes | | White-Rodgers 668-430 | yes | |
| Honeywell S86C yes | | | VENT DAMPERS | | |
| Honeywell S86D | yes | | Honeywell D80B,D | yes | |
| Robertshaw SP 710-929 | yes | | Robertshaw | no | R8239D1015 |
| Robertshaw SP 730-929 | yes | | AVD-E-780-90 | | |
| Robertshaw SP 712 series | yes | | Johnson (Penn Baso) M15AC-1 | yes | |
| White-Rodgers 36C84/50A22 | yes | | Flair SPG 5-21 | yes | |
| Camstat SIG-24 | yes | | ZONE CONTROL Hot Water Valves | | |
| Spectrol 990-195 | yes | | Honeywell V8043F | T von | |
| Johnson (Penn Baso) | no | R8239D1015 | Taco 571-2 | yes | R8239A1052 |
| G60RHL | | | Flair VJ100 | no | R8239A1052 |
| Johnson (Penn Baso) | no | R8239D1015 | | no | |
| CSA42A/Y79 | | · · · · · · · · · · · · · · · · · · · | Electro Zone RB-4 | no | R8239D1015 |
| Johnson (Penn Baso) CSA42A | yes | | HEAT/COOL INTERLOCK | | D2000 ':' |
| Powerpile (self-powered, mil | llivolt) | | Lennox GCSI Series | no | R8239 with RC-R |
| All Models | no | R8239D1015 | | | thermostat |

The wallplate does not require leveling for operation, but for appearance only.

The wallplate mounts directly onto the wall with the screws and anchors included in the package. Use the wallplate as a template, and with a pencil, mark two of the three mounting holes in the wallplate (Fig. 3). If drywall construction, plastic anchors must be used; use 3/16 in. bit to drill holes for anchors. Gently tap anchors into holes until they are flush to the wall surface. Thread wires through the center opening of the wallplate. Then, mount the wallplate using two screws provided. Gently tighten screws, level top surface of wallplate, then securely tighten screws.

WIRING

All wiring must comply with local electrical codes and ordinances.

Disconnect power before wiring to prevent electrical shock or equipment damage.

The shape of the terminal barrier permits insertion of straight or conventional wraparound wiring connections. Either method is acceptable (Fig. 5).

Push excess wire back into the hole, and plug hole with nonhardening caulk, putty, or insulation to prevent drafts from affecting thermostat operation.

Refer to Figs. 6-49 for typical hookups of wallplate and thermostat. For T8600 single transformer system using wallplate with RC, R terminals, jumper RC and R as shown in Fig. 4.

NOTE: Keep all wiring restricted to ribbed area surrounding terminals (Fig. 5) to assure thermostat/wallplate contact.

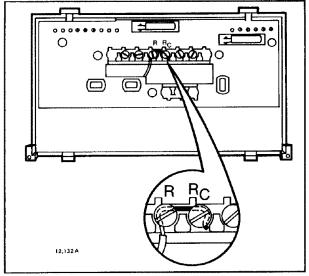


FIG. 4—JUMPER RC AND R FOR SINGLE TRANS-FORMER. STRIP WIRE 3/4 in [19 mm].

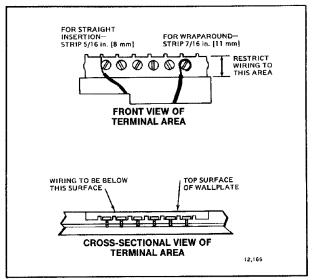


FIG. 5—KEEP WIRING RESTRICTED TO RIBBED AREA SURROUNDING TERMINALS.

| gas heat/electric cool, electric heat/electric cool oil heat/electric cool isolating relay 15 single-stage electric heat pump T8600C,D (heat/cool) gas heat/electric cool, single transformer gas heat/electric cool, two transformer 20 isolating switching center T8601A,B (heat only) gas or central electric ool, electric cool, electric heat/electric cool isolating switching center T8601C (heat/cool) gas heat/electric cool, electric ool, electric heat/electric cool isolating switching center T8601C (heat/cool) gas heat/electric cool, electric heat/electric cool 28 electric heat/electric cool 29 electric heat/electric cool oil heat/electric cool 29 electric heat/electric cool T8601D (heat/cool) gas heat/electric cool 32 oil heat/electric cool T8602A,B (heat only) gas or central electric 34 zone valves, incompatible or 3-wire electric heat/electric cool T8602C (heat/cool) gas heat/electric ool 32 oil heat/electric cool T8602C (heat/cool) gas heat/electric ool, and | Fig. No |
|--|---------|
| Table 1 | |
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| Intermittent Pilot isolating relay | 11 |
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| gas heat/electric cool, electric heat/electric cool oil heat/electric cool standard electric cool oil heat/electric cool oil heat/electric cool single transformer gas heat/electric cool, two transformer 20 isolating switching center T8601A,B (heat only) gas or central electric ool, electric cool, electric cool oil pass heat/electric cool, electric cool that pump isolating switching center T8601C (heat/cool) gas heat/electric cool, electric ool, electric heat/electric cool oil oil heat/electric cool oil heat/electric co | |
| electric heat/electric cool oil heat/electric cool isolating relay T8600C,D (heat/cool) gas heat/electric cool, single transformer gas heat/electric cool, two transformer gas or central electric oil heat/electric cool, electric heat/electric cool isolating switching center T8601A,B (heat only) gas or central electric oil heat/electric cool, electric heat/electric cool, isolating switching center Zone valves, incompatible or 3-wire zone valves, Honeywell or compatible 2-wire T8601C (heat/cool) gas heat/electric cool, electric heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat/electric cool oil heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat/electric cool oil heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat/electric cool oil heat/electric cool oil heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat/electric cool oil heat/electric cool oil heat/electric cool oil heat/electric cool oil heat/electric cool Z8 single-stage electric heat pump electric heat pump electric heat/electric cool oil heat/electric cool oil heat/electric cool oil heat/electric cool oil heat/electric cool | |
| electric heat/electric cool oil heat/electric cool isolating relay T8600C,D (heat/cool) gas heat/electric cool, single transformer gas heat/electric cool, two transformer gas heat/electric cool, two transformer gas or central electric oil Intermittent Pilot T8601C (heat/cool) gas heat/electric cool, electric heat/electric cool, electric heat/electric cool oil heat/electric cool oil heat/electric cool gas heat/electric cool gas heat/electric cool gas heat/electric cool gas heat/electric cool electric heat/electric cool oil heat/electric cool T8601D (heat/cool) gas heat/electric cool T8602A,B (heat only) gas or central electric oil | |
| T8600C,D (heat/cool) gas heat/electric cool, single transformer gas heat/electric cool, two transformer gas heat/electric cool, two transformer T8601A,B (heat only) gas or central electric gold gas heat/electric cool gold gas heat/electric gold gas gas ground gas gas ground gas ground gas gas gas gas ground gas | 16 |
| T8600C,D (heat/cool) gas heat/electric cool, single transformer gas heat/electric cool, two transformer gas or central electric oil Intermittent Pilot T8601D (heat/cool) gas heat/electric cool gas heat/electric cool, electric heat/electric cool gas heat/electric cool gas heat/electric cool, electric heat/electric cool gas heat/electric cool T8601D (heat/cool) gas or central electric gas or central electric abelia in the problem of the pr | 17 |
| gas heat/electric cool, single transformer gas heat/electric cool, two transformer 20 isolating switching center T8601A,B (heat only) gas or central electric 23 zone valves, incompatible or 3-wire 24 zone valves, Honeywell or compatible 2-wire 25 T8601C (heat/cool) gas heat/electric cool, electric heat/electric cool 29 single-stage electric heat pump electric heat/electric cool 29 T8601D (heat/cool) gas heat/electric cool 32 oil heat/electric cool T8602A,B (heat only) gas or central electric 34 zone valves, incompatible or 3-wire 20 zone valves, incompatible or 3-wire 20 zone valves, incompatible or 3-wire 20 zone valves, Honeywell or 20 | 18 |
| gas heat/electric cool, two transformer 20 isolating switching center T8601A,B (heat only) gas or central electric oil 24 zone valves, incompatible or 3-wire zone valves, Honeywell or compatible 2-wire T8601C (heat/cool) gas heat/electric cool, electric heat/electric cool oil heat/electric cool oil heat/electric cool gas heat/electric cool T8601D (heat/cool) gas heat/electric cool 32 oil heat/electric cool T8602A,B (heat only) gas or central electric 34 zone valves, incompatible or 3-wire oil 35 zone valves, Honeywell or compatible 2-wire T8602C (heat/cool) gas heat/electric cool, 36 zone valves, incompatible or 3-wire zone valves, Honeywell or compatible 2-wire T8602C (heat/cool) gas heat/electric cool, two transformer 38 | |
| gas heat/electric cool, two transformer T8601A,B (heat only) gas or central electric oil Intermittent Pilot T8601C (heat/cool) gas heat/electric cool, electric heat/electric cool oil heat/electric cool T8601D (heat/cool) gas heat/electric cool gas heat/electric cool oil heat/electric cool T8602A,B (heat only) gas or central electric oil gas or central electric oil gas or central electric oil single-stage electric heat pump electric heat/electric cool oil heat/electric cool T8601D (heat/cool) gas heat/electric cool T8602C (heat/cool) gas heat/electric cool, 32 oil heat/electric cool T8602C (heat/cool) gas heat/electric cool, two transformer 38 | 21 |
| gas or central electric oil Intermittent Pilot T8601C (heat/cool) gas heat/electric cool, electric heat/electric cool oil heat/electric cool gas heat/electric cool gas heat/electric cool T8601D (heat/cool) gas heat/electric cool gas heat/electric cool T8602A,B (heat only) gas or central electric oil Intermittent Pilot electric, decentralized T8602C (heat/cool) gas heat/electric cool, 82 zone valves, incompatible or 3-wire zone valves, incompatible or 3-wire zone valves, Honeywell or compatible 2-wire | 22 |
| 24 zone valves, Honeywell or compatible 2-wire | |
| Table 1 | 26 |
| T8601C (heat/cool) gas heat/electric cool, electric heat/electric cool oil heat/electric cool T8601D (heat/cool) gas heat/electric cool 32 oil heat/electric cool T8602A,B (heat only) gas or central electric oil Intermittent Pilot electric, decentralized T8602C (heat/cool) gas heat/electric cool, two transformer 38 single-stage electric heat pump electric heat/electric cool 28 oil heat/electric cool 29 zone valves, incompatible or 3-wire compatible 2-wire 18602C (heat/cool) 39 zone valves, incompatible or 3-wire compatible 2-wire | 27 |
| gas heat/electric cool, electric heat/electric cool oil heat/electric cool T8601D (heat/cool) gas heat/electric cool 32 oil heat/electric cool T8602A,B (heat only) gas or central electric oil Intermittent Pilot electric, decentralized T8602C (heat/cool) gas heat/electric cool, two transformer 38 single-stage electric heat pump electric heat/electric cool 28 oil heat/electric cool 29 20 Single-stage electric heat pump electric heat pump electric cool 28 oil heat/electric cool 32 oil heat/electric cool 32 oil heat/electric cool 34 zone valves, incompatible or 3-wire zone valves, Honeywell or compatible 2-wire | ···· |
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| oil heat/electric cool T8601D (heat/cool) gas heat/electric cool T8602A,B (heat only) gas or central electric oil Intermittent Pilot electric, decentralized T8602C (heat/cool) gas heat/electric cool, two transformer 29 oil heat/electric cool 32 oil heat/electric cool 32 zone valves, incompatible or 3-wire zone valves, Honeywell or compatible 2-wire T8602C (heat/cool) 38 | 30 |
| T8601D (heat/cool) gas heat/electric cool T8602A,B (heat only) gas or central electric oil Intermittent Pilot electric, decentralized T8602C (heat/cool) gas heat/electric cool, two transformer 32 | 31 |
| gas heat/electric cool T8602A,B (heat only) gas or central electric 34 zone valves, incompatible or 3-wire oil 35 zone valves, Honeywell or Intermittent Pilot 8 compatible 2-wire electric, decentralized 36 T8602C (heat/cool) gas heat/electric cool, two transformer 38 | |
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| gas or central electric oil Intermittent Pilot electric, decentralized 34 35 35 20ne valves, incompatible or 3-wire zone valves, Honeywell or compatible 2-wire 78602C (heat/cool) gas heat/electric cool, two transformer 38 | 33 |
| oil 35 zone valves, Honeywell or lntermittent Pilot 8 compatible 2-wire 36 T8602C (heat/cool) gas heat/electric cool, two transformer 38 | |
| oil 35 zone valves, Honeywell or compatible 2-wire 36 ST8602C (heat/cool) gas heat/electric cool, two transformer 38 | 37 |
| electric, decentralized 36 T8602C (heat/cool) gas heat/electric cool, two transformer 38 | 12 |
| electric, decentralized 36 T8602C (heat/cool) gas heat/electric cool, two transformer 38 | |
| gas heat/electric cool, two transformer 38 | |
| 3 | |
| with far anamating accided | |
| with fan operation switch | |

| | Fig. No. | | Fig. No |
|---|----------|-------------------------------------|---------|
| T8602C (heat/cool) | | | |
| gas heat/electric cool, two transformer gas heat/electric cool, | 39 | oil heat/electric cool | 41 |
| electric heat/electric cool | 40 | | |
| T8603A,B (heat only) | | | |
| gas | 42 | zone valves, incompatible or 3-wire | 45 |
| oil | 43 | zone valves, Honeywell or | 46 |
| Intermittent Pilot | 44 | compatible 2-wire | |
| T8603C (heat/cool) | | | |
| gas heat/electric cool, | | electric heat/electric cool, | |
| electric heat/electric cool | 47 | gas heat/electric cool, | |
| oil heat/electric cool | 48 | thermostat-controlled fan | 49 |

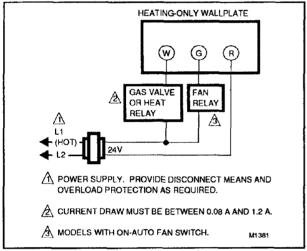


FIG. 6—T8600A,B HEATING-ONLY CIRCUIT IN CONTINUOUS PILOT GAS OR CENTRAL ELECTRIC SYSTEM.

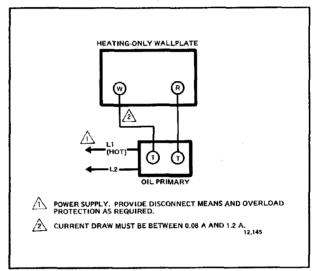


FIG. 7—T8600A,B HEATING-ONLY CIRCUIT IN AN OIL SYSTEM.

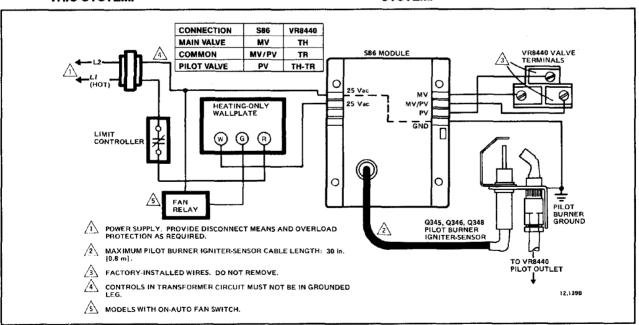


FIG. 8—T8600A,B; T8602A,B HEATING-ONLY CIRCUIT IN A HONEYWELL INTERMITTENT PILOT GAS BURNING IGNITION SYSTEM.

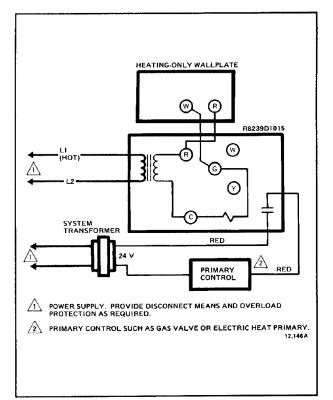


FIG. 9—T8600A,B HEATING-ONLY CIRCUIT USING AN R8239D ISOLATING RELAY. SEE TABLE III FOR USAGE.

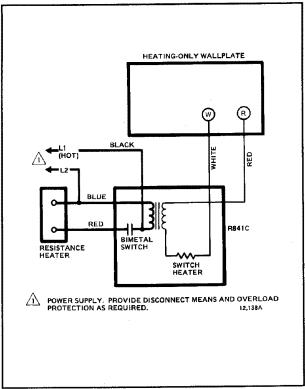


FIG. 10—T8600A,B HEATING-ONLY CIRCUIT IN AN ELECTRIC BASEBOARD OR CEILING CABLE SYSTEM.

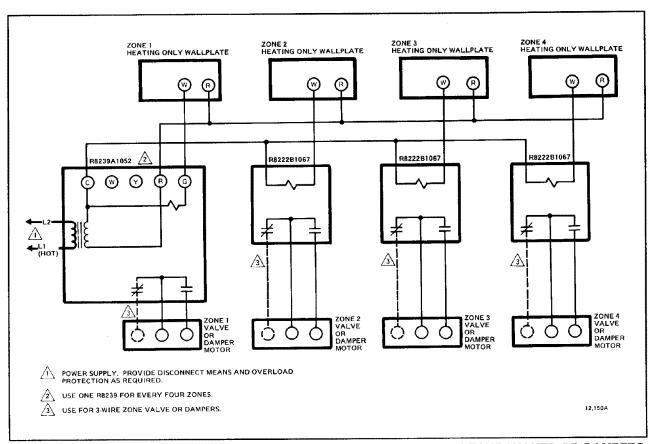


FIG. 11—T8600A,B CIRCUIT FOR CONTROLLING INCOMPATIBLE OR 3-WIRE ZONE VALVES OR DAMPERS. HEATING OR COOLING EQUIPMENT IS OPERATED BY AN END SWITCH ON THE ZONE VALVE OR MOTOR, OR BY A THERMOSTAT IN A MASTER ZONE.

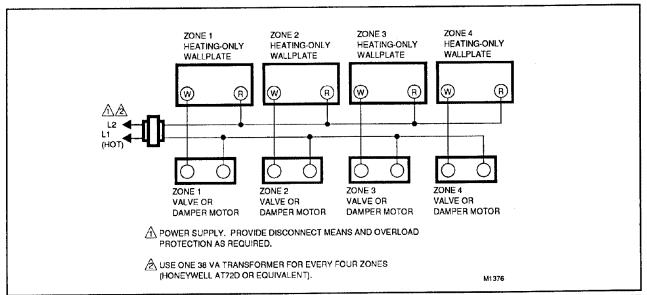


FIG. 12—T8600A,B; T8602A,B CIRCUIT FOR CONTROLLING HONEYWELL OR COMPATIBLE 2-WIRE ZONE VALVES OR DAMPERS, HEATING OR COOLING EQUIPMENT IS OPERATED BY AN END SWITCH ON THE ZONE VALVE OR MOTOR, OR BY A THERMOSTAT IN A MASTER ZONE.

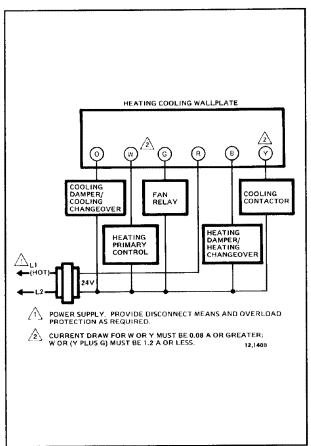


FIG. 13—T8600C HEATING/COOLING CIRCUIT IN A SINGLE TRANSFORMER SYSTEM WITH GAS HEAT/ELECTRIC COOLING OR ELECTRIC HEAT/ELECTRIC COOLING AND CHANGEOVER TERMINALS (O,B). THERMOSTAT CONTROLS FAN IN COOLING ONLY (TYPICAL MULTISPEED FAN APPLICATIONS).

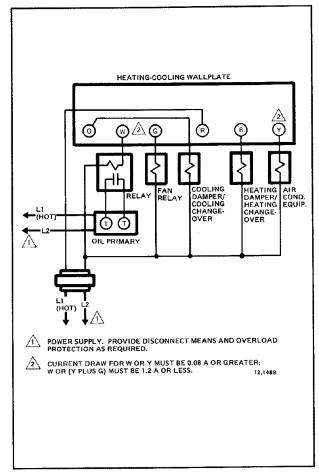


FIG. 14—T8600C HEATING/COOLING CIRCUIT IN AN OIL HEATING/ELECTRIC COOLING SYSTEM WITH CHANGEOVER TERMINALS (O,B). HEATING TRANSFORMER IS IN OIL PRIMARY. ALSO SEE FIG. 21 (RC, R TERMINALS).

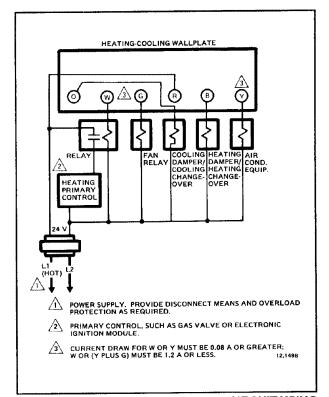


FIG. 15—T8600C HEATING/COOLING CIRCUIT USING AN ISOLATING RELAY WITH CHANGEOVER TERMINALS (O,B). SEE TABLE III FOR US-AGE.

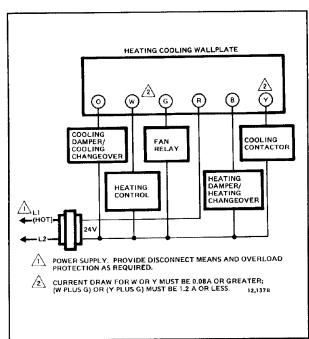


FIG. 16—T8600C SUPER TRADELINE HEATING/
COOLING CIRCUIT IN A SINGLE TRANSFORMER SYSTEM WITH ELECTRIC HEAT/
ELECTRIC COOLING AND CHANGEOVER
TERMINALS (O,B). THERMOSTAT CONTROLS FAN IN HEAT AND COOL (TYPICAL
SINGLE-SPEED FAN APPLICATIONS). SEE
TABLE IV TO SET FAN OPERATION
SWITCH.

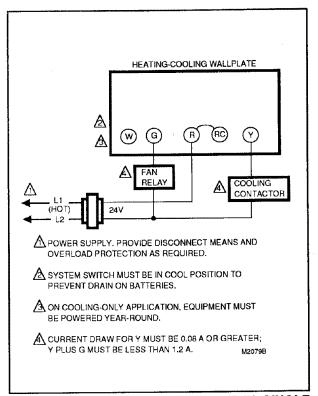


FIG. 17—T8600C COOLING CIRCUIT IN SINGLE TRANSFORMER SYSTEM WITH ELECTRIC COOLING.

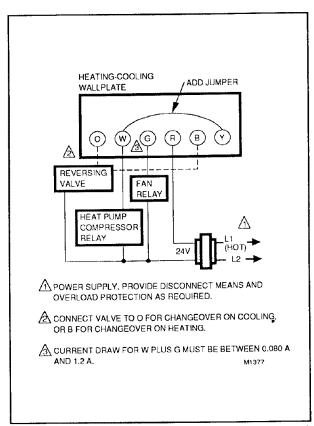


FIG. 18—T8600C HEATING/COOLING CIRCUIT FOR A SINGLE-STAGE ELECTRIC HEAT PUMP WITH CHANGEOVER TERMINALS (O,B).

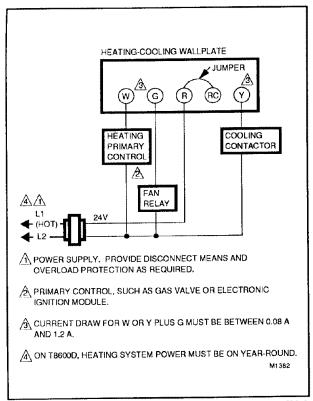


FIG. 19—T8600C,D HEATING/COOLING CIRCUIT IN A SINGLE TRANSFORMER SYSTEM WITH GAS HEAT/ELECTRIC COOLING, RC AND R TERMINALS.

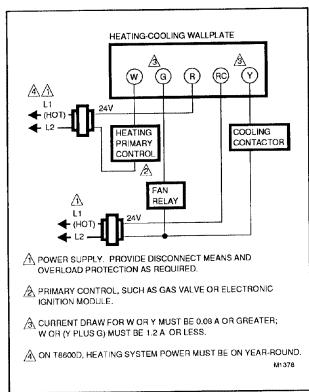


FIG. 20—T8600C,D HEATING/COOLING CIRCUIT IN A TWO-TRANSFORMER (ONE FOR HEATING, ONE FOR COOLING) SYSTEM WITH GAS HEAT/ELECTRIC COOLING, RC AND R TERMINALS.

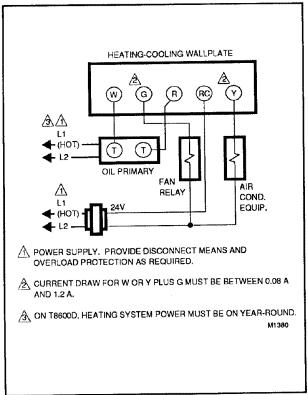


FIG. 21—T8600C,D HEATING/COOLING CIRCUIT IN AN OIL HEATING/ELECTRIC COOLING SYSTEM. HEATING TRANSFORMER IS IN OIL PRIMARY, RC AND R TERMINALS.

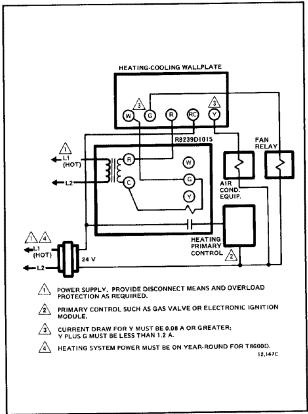


FIG. 22—T8600C,D HEATING/COOLING CIRCUIT US-ING AN R8239D ISOLATING SWITCHING CENTER.

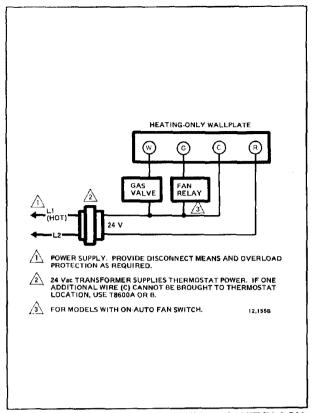


FIG. 23—T8601A,B HEATING-ONLY CIRCUIT IN CONTINUOUS PILOT GAS OR CENTRAL ELECTRIC SYSTEM.

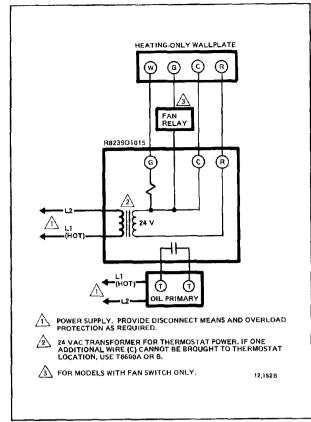


FIG. 24—T8601A,B HEATING-ONLY CIRCUIT IN AN OIL SYSTEM.

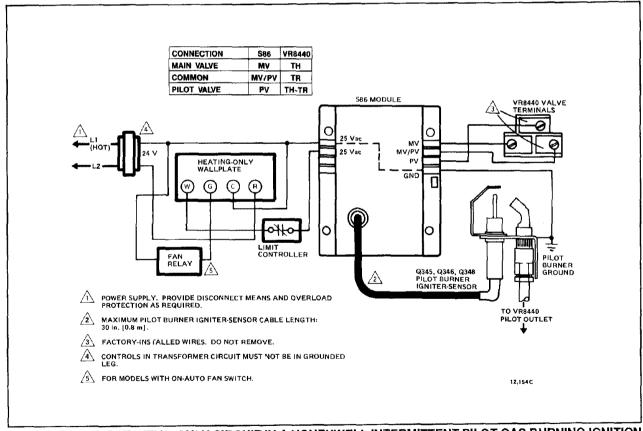


FIG. 25—T8601A,B HEATING-ONLY CIRCUIT IN A HONEYWELL INTERMITTENT PILOT GAS BURNING IGNITION SYSTEM.

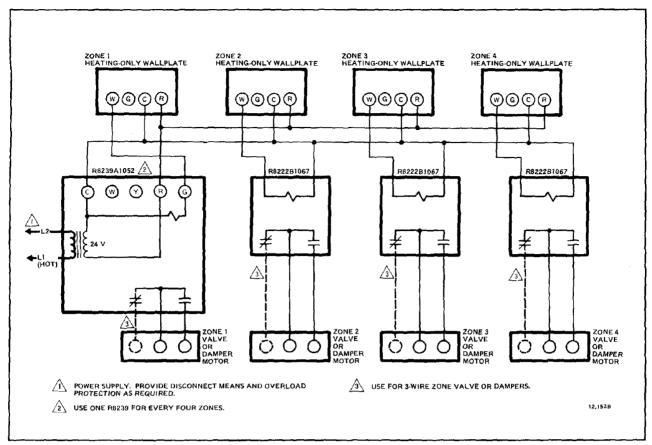


FIG. 26—T8601A,B CIRCUIT FOR CONTROLLING INCOMPATIBLE OR 3-WIRE ZONE VALVES OR DAMPERS. HEATING OR COOLING EQUIPMENT IS OPERATED BY AN END SWITCH ON THE ZONE VALVE OR MOTOR, OR BY A THERMOSTAT IN A MASTER ZONE. FOR HONEYWELL OR COMPATIBLE 2-WIRE VALVES, SEE FIG. 27.

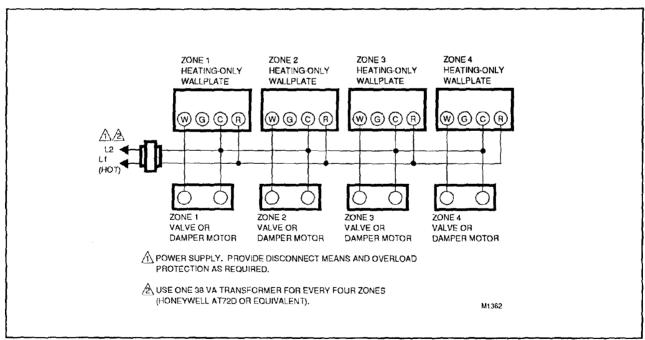


FIG. 27—T8601A,B CIRCUIT FOR CONTROLLING HONEYWELL OR COMPATIBLE TWO-WIRE ZONE VALVES OR DAMPERS. HEATING OR COOLING EQUIPMENT IS OPERATED BY AN END SWITCH ON THE ZONE VALVE OR MOTOR, OR BY A THERMOSTAT IN A MASTER ZONE.

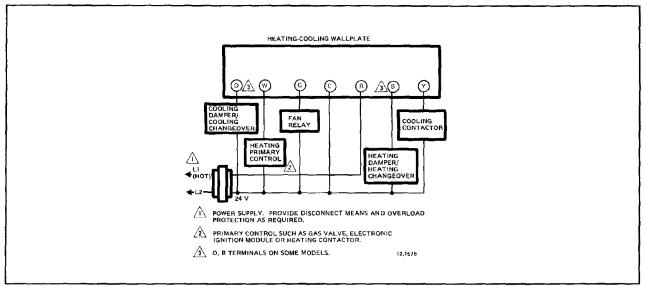


FIG. 28—T8601C HEATING/COOLING CIRCUIT IN A SINGLE TRANSFORMER SYSTEM WITH GAS HEAT/ELEC-TRIC COOLING, OR ELECTRIC HEAT/ELECTRIC COOLING AND CHANGEOVER TERMINALS (0,B). THERMOSTAT CONTROLS FAN IN COOLING ONLY (TYPICAL MULTISPEED FAN APPLICATIONS).

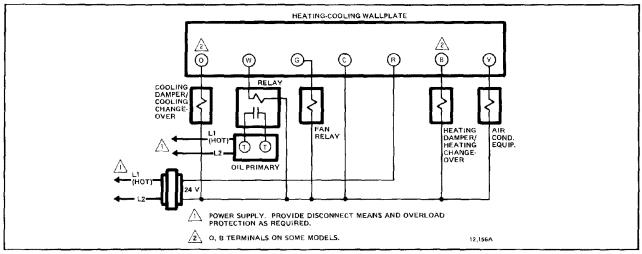


FIG. 29—T8601C HEATING/COOLING CIRCUIT IN AN OIL HEATING/ELECTRIC COOLING SYSTEM. OIL PRIMARY HAS ITS OWN TRANSFORMER.

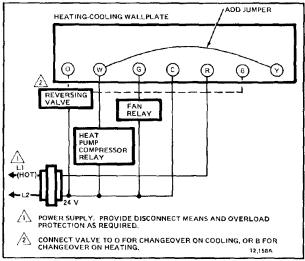


FIG. 30—T8601C HEATING/COOLING CIRCUIT FOR A SINGLE-STAGE ELECTRIC HEAT PUMP. FAN CONTROLLED BY THERMOSTAT.

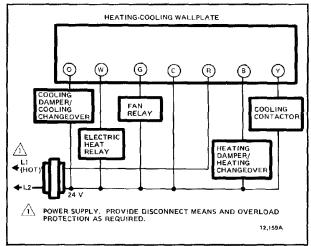


FIG. 31—T8601C HEATING/COOLING CIRCUIT FOR A CENTRAL ELECTRIC FURNACE/ELECTRIC COOLING. (TYPICAL SINGLE-SPEED FAN APPLICATIONS).

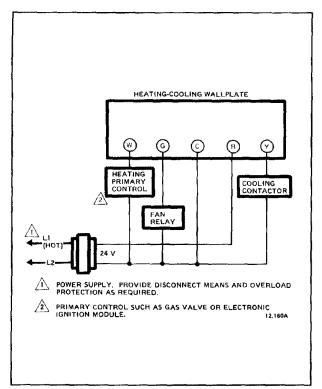


FIG. 32—T8601D HEATING/COOLING CIRCUIT IN A SINGLE TRANSFORMER SYSTEM WITH GAS HEAT/ELECTRIC COOLING.

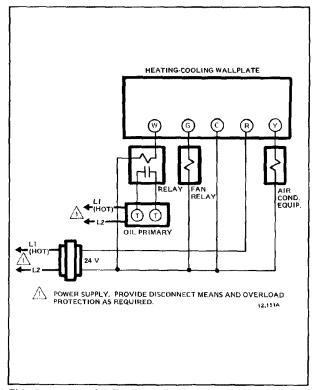


FIG. 33—T8601D HEATING/COOLING CIRCUIT IN AN OIL HEATING/ELECTRIC COOLING SYSTEM. OIL PRIMARY HAS ITS OWN TRANSFORMER.

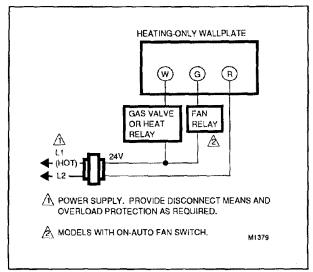


FIG. 34—T8602A,B HEATING-ONLY CIRCUIT IN CONTINUOUS PILOT GAS SYSTEM.

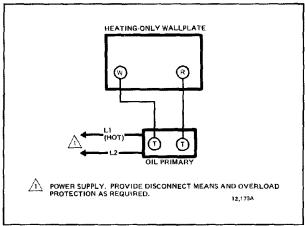


FIG. 35—T8602A,B HEATING-ONLY CIRCUIT IN AN OIL SYSTEM.

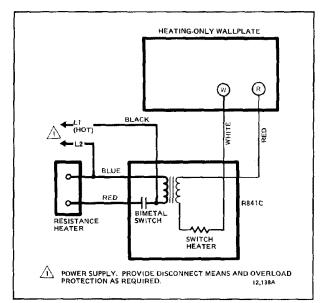


FIG. 36—T8602A,B HEATING-ONLY CIRCUIT IN AN ELECTRIC BASEBOARD OR CEILING CABLE SYSTEM.

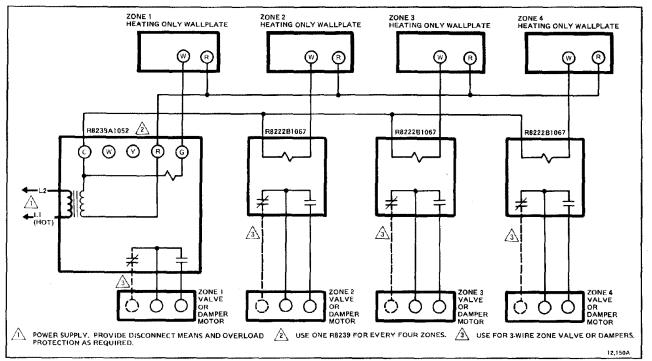


FIG. 37—T8602A,B CIRCUIT FOR CONTROLLING INCOMPATIBLE OR 3-WIRE ZONE VALVES OR DAMPERS. HEATING OR COOLING EQUIPMENT IS OPERATED BY AN END SWITCH ON THE ZONE VALVE OR MOTOR, OR BY A THERMOSTAT IN A MASTER ZONE. FOR HONEYWELL OR COMPATIBLE 2-WIRE VALVES, SEE FIG. 12.

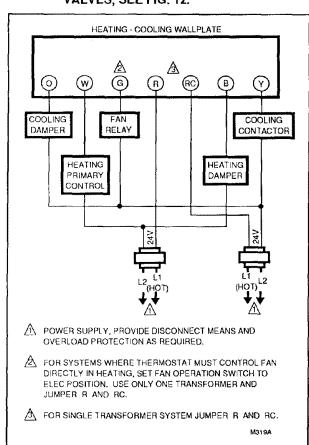


FIG. 38—T8602C SUPER TRADELINE HEATING/ COOLING CIRCUIT IN A TWO-TRANS-FORMER SYSTEM (GAS HEATING/ELEC-TRIC COOLING). SEE TABLE IV TO SET FAN OPERATION SWITCH.

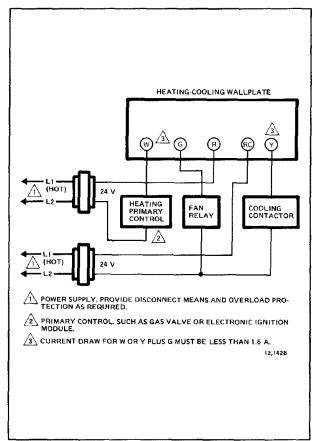


FIG. 39—T8602C HEATING/COOLING CIRCUIT IN A TWO-TRANSFORMER (ONE FOR HEATING, ONE FOR COOLING) SYSTEM WITH GAS HEAT/ELECTRIC COOLING, RC AND R TERMINALS.

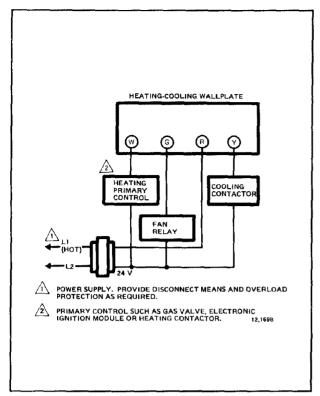


FIG. 40—T8602C HEATING/COOLING CIRCUIT IN A SINGLE TRANSFORMER SYSTEM WITH GAS HEAT/ELECTRIC COOLING OR ELECTRIC HEAT/ELECTRIC COOLING. THERMOSTAT CONTROLS FAN IN COOLING ONLY (TYPICAL MULTISPEED FAN APPLICATION).

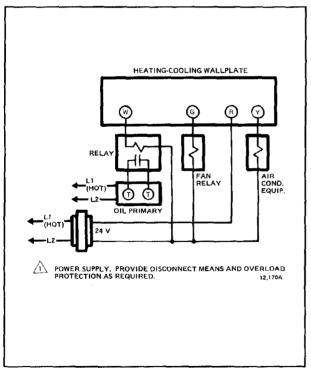


FIG. 41—T8602C HEATING/COOLING CIRCUIT IN AN OIL HEATING/ELECTRIC COOLING SYSTEM. HEATING TRANSFORMER IS IN OIL PRIMARY.

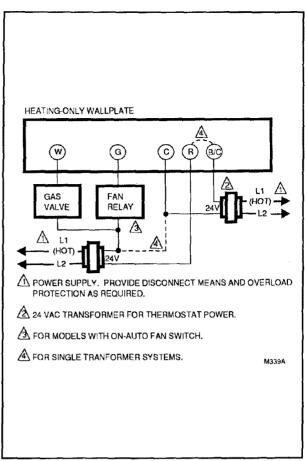


FIG. 42—T8603A,B HEATING-ONLY CIRCUIT IN A CONTINUOUS PILOT GAS SYSTEM.

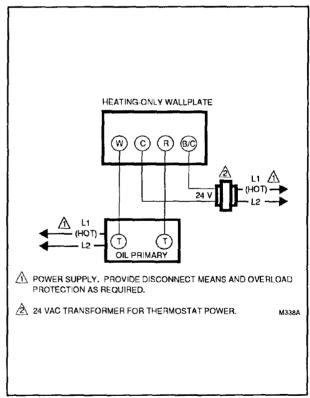


FIG. 43—T8603A,B HEATING-ONLY CIRCUIT IN AN OIL SYSTEM.

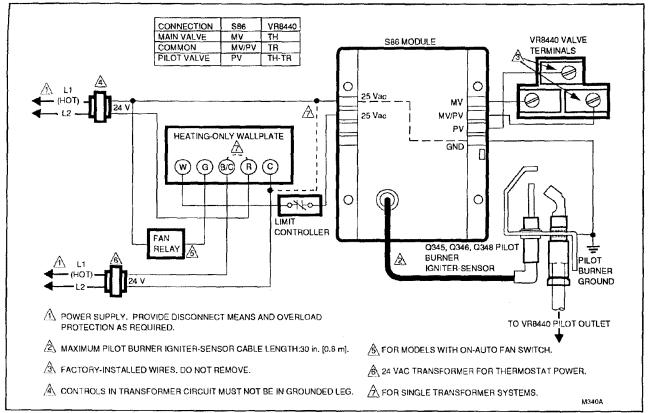


FIG. 44—T8603A,B HEATING-ONLY CIRCUIT IN A HONEYWELL INTERMITTENT PILOT GAS BURNER IGNITION SYSTEM.

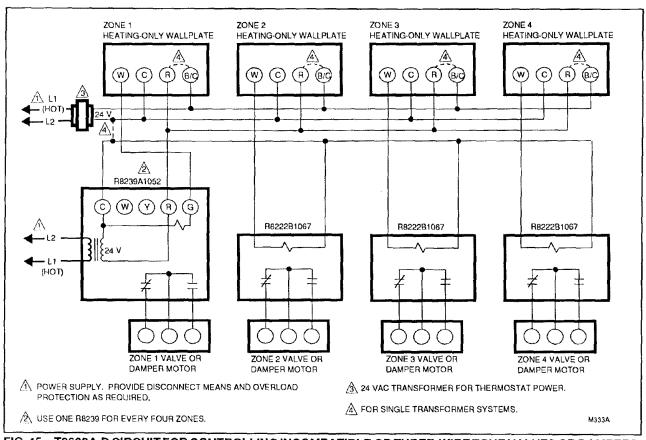


FIG. 45—T8603A,B CIRCUIT FOR CONTROLLING INCOMPATIBLE OR THREE-WIRE ZONE VALVES OR DAMPERS. HEATING EQUIPMENT IS OPERATED BY AN END SWITCH ON THE ZONE VALVE OR MOTOR, OR BY A THERMOSTAT IN A MASTER ZONE.

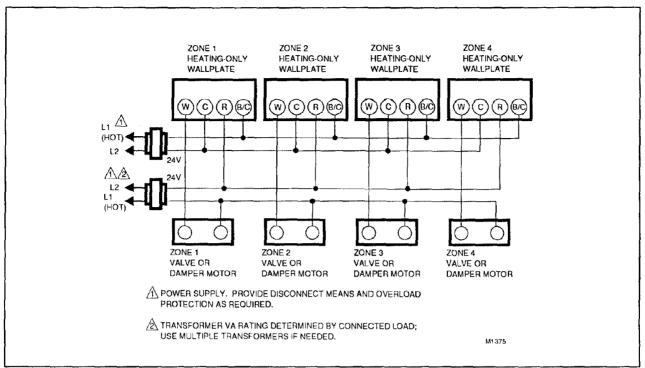


FIG. 46—T8603A, B CIRCUIT FOR CONTROLLING HONEYWELL OR COMPATIBLE TWO-WIRE ZONE VALVES OR DAMPERS. HEATING EQUIPMENT IS OPERATED BY AN END SWITCH ON THE ZONE VALVE OR MOTOR, OR BY A THERMOSTAT IN A MASTER ZONE.

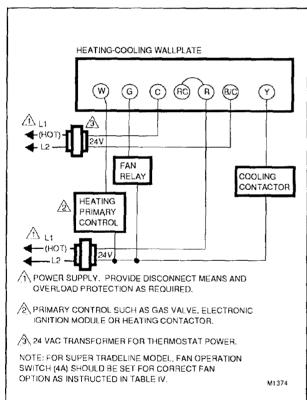


FIG. 47—T8603C HEATING/COOLING CIRCUIT IN A SINGLE TRANSFORMER SYSTEM WITH GAS HEAT/ELECTRIC COOLING, OR ELECTRIC HEAT/ELECTRIC COOLING. THERMOSTAT CONTROLS FAN IN COOLING ONLY OR HEAT AND COOL (TYPICAL MULTISPEED FAN APPLICATIONS).

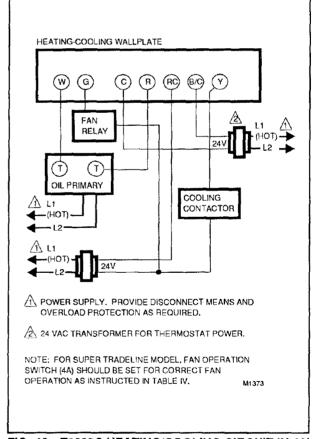


FIG. 48—T8603C HEATING/COOLING CIRCUIT IN AN OIL HEATING/ELECTRIC COOLING SYSTEM. OIL PRIMARY HAS ITS OWN TRANSFORMER.

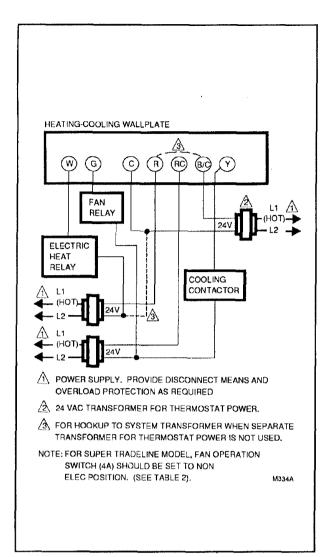


FIG. 49—T8603C HEATING/COOLING CIRCUIT FOR ELECTRIC HEAT/ELECTRIC COOLING OR GAS HEAT/ELECTRIC COOLING. THERMOSTAT CONTROLS FAN IN COOL ONLY (TYPICAL SINGLE-STAGE FAN APPLICATIONS). TWO SYSTEM TRANSFORMERS PLUS THERMOSTAT SUPPLY TRANSFORMER SHOWN.

CYCLE RATE ADJUSTMENT

NOTE: MOST APPLICATIONS WILL NOT REQUIRE A CHANGE IN CYCLE RATE.

The room air temperature will normally vary slightly from the comfort temperature setting with the cycling of the furnace or air conditioner. The equipment cycles off and on as room temperature approaches the set point.

The cycle rate of this thermostat is set for heating at six cycles per hour and for cooling at three cycles per hour as shipped from the factory. The cooling cycle rate can not be adjusted. The heating cycle rate can be adjusted by turning one or both cycle rate adjustment screws located on the back of the thermostat. See Fig. 50. The screws should only be backed out about one-half to one turn, or be turned in until tight.

ADAPTIVE INTELLIGENT RECOVERY™/ CONVENTIONAL RECOVERY CONVERSION

The thermostat is factory-set for Adaptive Intelligent Recovery™, but may be converted to conventional recovery using screw 3A on the back of the thermostat as indicated in Fig. 50.

With Adaptive Intelligent Recovery™, the room will reach the comfort temperature at the exact time programmed into the thermostat. The control temperature will increase gradually, and turn the equipment on and off several times to reach the comfort temperature slowly and on time.

With conventional recovery, the start time should be programmed to be earlier than the desired comfort time.

TIME/TEMPERATURE CONVERSION (SOME MODELS)

The display readout may be converted between 12 and 24 hour clock or °C and °F using screws 2A and 2B as indicated in Fig. 50.

FAN OPERATION SWITCH

SUPER TRADELINE models include a fan operation switch on the back of the thermostat, on the lower left corner (Fig. 50). See Table IV below to determine correct setting of fan operation switch.

CAUTION

The fan operation switch in the SUPERTRADELINE models is factory set to the NON ELEC. position. If the system requires direct thermostat control of the fan in heat mode, the switch must be set to the ELEC. position. See Table IV.

TABLE IV—SUPER TRADELINE FAN OPERATION SWITCH SETTING.

| FAN OPERATION | FAN OPERATION SWITCH SETTING (4A) FIG. 50 | COMMENTS | |
|---|--|---|--|
| Fan controlled directly by thermostat in heat mode (typically electric furnaces). | Set to ELEC. position. | Use only 1 system transformer; jumper R and RC. | |
| Fan has independent control in heat mode (typically gas, oil and some electric furnaces). | Set to NON ELEC. position | System may have 1 or 2 transformers; if 1 transformer, jumper R and RC. | |

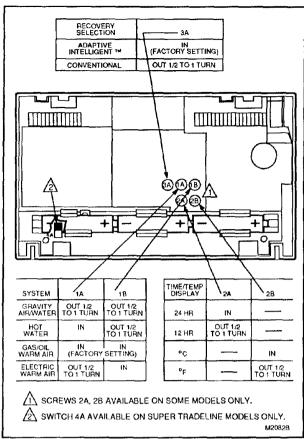


FIG. 50—CYCLE RATE ADJUSTMENT.

INSTALLING BATTERIES

On the T8600, T8601 and T8603 thermostats, three AAA alkaline batteries are provided as backup to prevent program loss in case of power outage. Batteries are included with thermostat. Install batteries in back of thermostat as shown in Fig. 51. Without battery backup, the program will remain about 30 seconds in event of power loss.

- IMPORTANT

- When batteries are first installed in the T8600, T8601 and T8603, the display will flash -AC until the thermostat is powered from the system wiring.
- If AC power is lost during operation, the display will show -AC instead of temperature.

On the T8602 Thermostat, power is supplied for the thermostat by three AA alkaline batteries. Batteries are included with thermostat. Install batteries in back of thermostat as shown in Fig. 51. The display will flash 1:00 PM and room temperature.

When the batteries are low, the thermostat display will flash REPL BAT. If device has system switch, set to OFF. Remove the thermostat from the wallplate and install three new alkaline batteries. Install new batteries within approximately 30 seconds from time the batteries are removed to prevent program loss and necessity to reprogram.

IMPORTANT

On the T8602, the low battery warning will be displayed about two months before batteries are dead. When the batteries are dead, the system will shut down. After batteries are replaced, thermostat will require reprogramming.

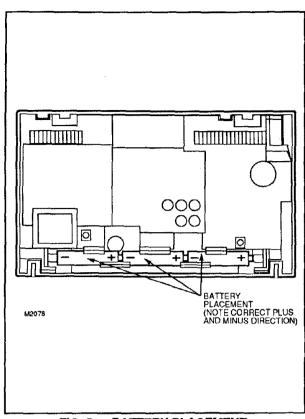


FIG. 51—BATTERY PLACEMENT.

Power Outages (T8600, T8601, T8603 ONLY)

Backup batteries will hold the programming and keep the display on during most power outages. Once the power is restored, the system will resume normal operation.

If the display goes off when power is lost, either the backup batteries need to be replaced, or are not installed. When power is restored, the display will flash 1:00 PM to remind you to reprogram; will control at preprogrammed temperature until then.

MOUNTING THE THERMOSTAT

Hang the thermostat on the tabs at the top of the base (Fig. 52a). Swing down and press on lower edge until thermostat snaps in place (Fig. 52b). Open cover, and tighten the captive mounting screws (Fig. 52c).

When 24 V system power is present on T8600, T8601, T8603, the room temperature will be displayed.

SETTING DAY AND TIME

Set present day and time, as follows:

Press SET PRESENT DAY/TIME

Press TIME $\begin{picture}(200,0) \put(0,0){\line(1,0){100}} \put(0,0){\l$

Press SET PRESENT DAY/TIME

Press to set the current day. Each press of the

key advances the display one day.

NOTE: On the T8600, T8601, T8603, when 24 V is first applied to power unit, display will flash 1:00 PM and 32° for a minute or less, followed by 1:00 and the room temperature flashing.

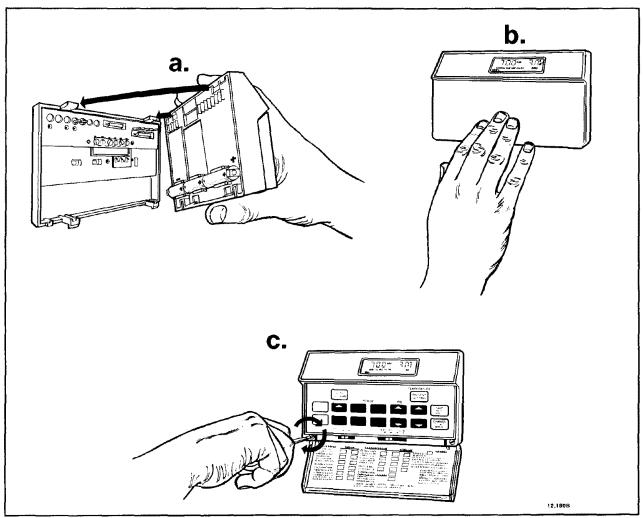


FIG. 52—MOUNTING THERMOSTAT ON WALLPLATE.

On the T8602, when thermostat is first turned on, the display will read 1:00 PM and room temperature. It will go off for only a few seconds, then begin to flash on and off.

If the display will not come on.

 check mounting of thermostat to wallplate. If loose or misaligned, remove thermostat and reinstall on the wallplate, making sure it is firmly attached.

- check to see that heat or cool system power is on (T8600, T8601, T8603).
- check voltage between R and W or RC(R) and Y on the T8600, between R and C on the T8601, between C and B/C on the T8603; should be 24 to 30 Vac. Display will show -AC if no 24-30 Vac.
- check for fresh and correctly installed batteries in the T8602.

CHECKOUT

NOTE: On models without system or fan switch, disregard instruction regarding moving of switch.

HEATING

Move the system switch to HEAT or AUTO and the fan switch to AUTO. Press WARMER key until the setting is about 10° F [6° C] above room temperature. Heating should start, and the fan should run (may be a short delay on forced air systems). Press COOLER key until the setting is about 10° F [6° C] below room temperature. The heating equipment should shut off, followed by the fan.

NOTE: On an AUTO changeover thermostat (T8600D, T8601D, T8602D), the cooling temperature must be set at least 3° F [2° C] above the heating temperature, or display will flash.

COOLING

CAUTION

Do not operate cooling if outdoor temperature is below 50° F [10° C]. Refer to manufacturer's recommendations.

NOTE: When cooling setting is changed, thermostat will wait up to 5 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 COOLER key until the setting is about 10° F [6° C] below room temperature. The cooling equipment and fan should start. Press WARMER key until the setting

is about 10° F [6° C] above room temperature. The cooling equipment and fan should stop.

NOTE: On an AUTO changeover thermostat (T8600D, T8601D, T8602D), the heating temperature must be set at least 3° F [2° C] below the cooling temperature, or display will flash.

FAN

Move the system switch to OFF, and the fan switch to ON. The fan should run continuously. When the fan switch is in the AUTO position, fan cycles with the heating or cooling system.

INSTALLER SELF-TEST (optional)

IMPORTANT

Five minute time delay on cooling does not function during self-test.

Perform the following test as a check of all thermostat functions. If thermostat does not respond as indicated, thermostat must be replaced.

- 1. Press AHEAD and BACK keys at the same time. While holding keys down, all segments of the display should be on Fig. 53).
- Set system switch to OFF, where applicable. Press AHEAD and BACK and PRESENT SETTING keys at the same time to enter self-test.
- 3. Press each key as listed below, and look for responses listed, as key is held down and released.

| | LOOK FOR TH | IIS RESPONSE: |
|--------------------------|-------------|---|
| PRESS THIS KEY: | KEY DOWN | KEY RELEASED |
| PRESENT SETTING | 15 | see note a following |
| SKIP NEXT PERIOD | 07 | blank |
| CHANGE TO LAST PERIOD | 03 | blank |
| COOLER | 02 | blank |
| WARMER | 06 | blank |
| BACK | 04 | blank |
| AHEAD | 05 | blank |
| RETURN | 00 | blank |
| LEAVE | 01 | blank |
| SLEEP | 08 | blank |
| WAKE | 12 | see note b following |
| SET HEAT/COOL | 09 | blank |
| DAY | 13 | micro- processor mask number and revision number |
| HOLD | 10 | blank |
| SET PRESENT DAY/ TIME | 14 | see note c following |
| RUN PROGRAM | 11 | normal operating display |



FIG. 53-ALL SEGMENTS ON DISPLAY.

^aIf the system switch is in COOL or AUTO, the cooling system and system LED come on when the key is released. Press and release to turn cooling system and LED off.

CAUTION

Do not operate cooling if outdoor temperature is below 50° F [10° C]. Refer to manufacturer's recommendations.

^bA four-digit code number will appear when the key is released. The four digits of the code represent the following options.

| FIRST DIGIT | HEATING CYCLES PER HOUR AT 50% ON TIME SET FOR |
|----------------|---|
| 0 | Gravity Air/Water |
| 2 | Hot Water |
| 4 | Electric Warm Air |
| 6 | Gas/Oil Warm Air |

| SECOND DIGIT | CLOCK (HR.) | DEGREES | RECOVERY TYPE |
|-----------------|----------------|---------|-----------------------|
| 0 | 12 | F | Conventional |
| 1 | 12 | l c | Conventional |
| 2 | 12 | F | Adaptive Intelligent™ |
| 3 | 12 | l c | Adaptive Intelligent™ |
| 4 | 24 | l F | Conventional |
| 5 | 24 | С | Conventional |
| 6 | 24 | F | Adaptive Intelligent™ |
| 7 | 24 | C | Adaptive Intelligent™ |

| THIRD DIGIT | THERMOSTAT TYPE | SYSTEM SWITCH POSITION |
|----------------|--------------------|------------------------|
| 0 | Heat/Cool | Off or Auto |
| 1 | Heat Only | Off |
| 2 | Heat/Cool | Cool |
| 4 | Heat/Cool | Heat |
| 5 | Heat Only | Heat or No Switch |

| FOURTH DIGIT | THERMOSTAT | AUTO OR MANUAL CHANGEOVER | SYSTEM SWITCH |
|--------------|---------------------|------------------------------|-----------------|
| 0 | T8602 | Manual or Heat Only | All Positions |
| 1 | T8602 | Auto | Heat, Off, Cool |
| 3 | T8602 | Auto | Auto |
| 4 | T8600, T8601, T8603 | Manual or Heat Only | All Positions |
| 5 | T8600, T8601, T8603 | Auto | Heat, Off, Cool |
| 7 | T8600, T8601, T8603 | Auto | Auto |

^clf the system switch is in HEAT or AUTO, the heating system and system LED come on when the key is released. Press and release again to turn heating system and LED off.

ABOUT ADAPTIVE INTELLIGENT RECOVERY

- People perceive temperature from a variety of sources, not only from the air in the room, but also from their surroundings—walls, windows and furnishings.
- Human beings feel differences in temperature as slight as two degrees Fahrenheit.
- Common household thermometers and standard thermostats sense only air temperature, which may or may

not reflect how hot or cold the room actually *feels* to a human being.

■ This thermostat reads the temperature of the wall as well as the air—and responds to temperature changes as little as one degree Fahrenheit—so room temperature is more likely to "feel right".

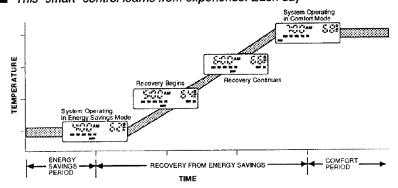
THE OPTIMUM COMFORT AND ENERGY SAVINGS SOLUTION

- This thermostat is actually a small but powerful computer. When calculating the exact time to turn on your furnace or air conditioner, it considers (1) air temperature, (2) the temperature of the wall and (3) when you want the comfort temperature established.
- During Adaptive Intelligent Recovery™ the thermostat increases the control temperature gradually and turns the equipment on and off several times to save energy by avoiding "overshooting" the comfort temperature. See the current control temperature anytime during recovery by pressing the PRESENT SETTING key. On some models, both the SYSTEM and ENERGY SAVING lights may be lit at the same time during recovery.
- This "smart" control learns from experience. Each day

it checks how closely it "hit the target" and adjusts the recovery start time accordingly.

It typically takes four to eight days after installation for this thermostat to adjust to the weather, life style, home construction and heating/cooling system. The thermostat calculates the LEAVE/RETURN recovery separately from the SLEEP/WAKE recovery.

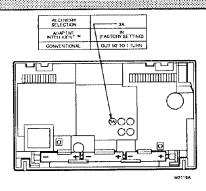
■ With this thermostat, choose Adaptive Intelligent Recovery™ or conventional recovery. Use Adaptive Intelligent Recovery™ to choose the exact time that the room reaches comfort temperature. Use conventional recovery to choose the exact time furnace or air conditioner comes on to start recovery.



THE THERMOSTAT USES THE SAME SCHEME TO RETURN GRADUALLY TO LOWER COMFORT TEMPERATURE DURING THE COOLING SEASON.

M 171

RECOVERY SETTING PROCEDURE



This thermostat includes a screw on the back marked "3A", allowing for the Adaptive Intelligent Recovery™/conventional recovery choice.

This thermostat was shipped from the factory with the screw positioned for Adaptive Intelligent Recovery™. The installer may have left the screw in this position, or may have changed it to conventional recovery. Before programming, it is important to know for which recovery method the thermostat has been set.

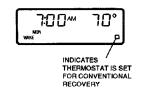
 With Adaptive Intelligent Recovery[™], the dwelling will reach the comfort temperature at the exact time programmed into the thermostat. See page 24 for detailed explanation of Adaptive Intelligent Recovery TM .

With conventional recovery, the programmed time will
mark the start of recovery; therefore, program the start
time to be earlier than the desired comfort time. It may
require some trial and error to arrive at the best starting
time, and the best starting time will vary as the seasons
change.

To determine which type of recovery is set into the thermostat, make sure thermostat is powered with fresh batteries, or is mounted and powered on the wall (see page 22).

Press RUN ROGRAM key.

Check thermostat display.



- If the ☐ shows in the lower right-hand corner (see illustration), the thermostat is set for conventional recovery. For Adaptive Intelligent Recovery™, remove thermostat from wallplate, turn screw 3A (on back of thermostat) clockwise until it bottoms. DO NOT OVERTIGHTEN.

PROGRAMMING THE THERMOSTAT

STEP 1 SET THE CURRENT DAY AND TIME

SET PRESENT DAY/TIME Press and release. The display shows 1:00 PM Mon.

FO OPM

You can program this thermostat either on the wall or in hand.



Press and hold until the current day appears in the display.

I:D D_{PM}

Always press the keys with your fingertip or similar blunt tool. Sharp instruments like a pen or pencil point can damage the keyboard.



Press and hold until the current time appears in the display. Be sure AM or PM appears as desired.

3:52_{PM}

NOTE: Check the glossary, page 33, for definitions of unfamiliar words.

ge

The current day and time are now programmed. Go on to Step 2.

IMPORTANT

Before beginning STEP 2, determine if thermostat is set for Adaptive Intelligent Recovery™ or conventional recovery. See pages 24-25.

If set for Adaptive Intelligent Recovery™, program the times for when home should be comfortable. The thermostat will decide how early to begin the temperature changes.

If set for conventional recovery, program the times earlier, allowing home to reach the comfort temperature by the time owner is home or wakes up. Some trial and error may be required to arrive at the best starting times.

STEP 2 SET THE PROGRAM SCHEDULE AND HEATING TEMPERATURES



Press and release. Note that the display shows WAKE and the preprogrammed time and temperature.



Start by programming the WAKE time and temperature for weekdays.



If system has air conditioning and the display reads COOL, press and release to switch to HEAT.



The thermostat requires a program for WAKE. Program LEAVE, RETURN and SLEEP or not, as desired.

If display reads SAT or SUN, press NOTE: The display shows Adaptive S:00 AM 70 Intelligent Recovery™ setting in the and hold until MON TUE WED THU FRI appears. following instructions. Press and hold until the display 7 Diệt Heat 7:00~ shows the desired starting time. Press and hold until the display 7:00* shows the desired temperature. If the display starts to blink while holding down TEMPERATURE WARMER or COOLER, the setting limit has been reached. If thermostat can switch automatically between heating and cooling, the heating temperature must be at least 3 degrees below the air conditioning temperature. For example, if the cooling setting is 75° F, the maximum heating setting is 72° F. Program the LEAVE time and Press and release. The display LEAVE shows LEAVE, but no time or temperature, if desired. MON TUE WED THU FRE LEAVE temperature. NOTE: If desired, cancel the LEAVE, RETURN or SLEEP program by holding down the period **5** □ \$ Press and hold until the display key until the time and temperature 8:30^M disappear from the display. shows the desired starting time. Press and hold until the display 8:30^M 6S: shows the desired temperature. Program the RETURN time and Press and release. The display RETURN temperature, if desired. shows RETURN, but no time or temperature.

BACK

Press and hold until the display shows the desired starting time.



WARMER

Press and hold until the display shows the desired temperature.



Program the SLEEP time and temperature, if desired.

SLEEP

Press and release. The display shows SLEEP and the preprogrammed time and temperature.



AHEAD

BACK

Press and hold until the display shows the desired starting time.







Press and hold until the display shows the desired temperature.



Set the SATURDAY schedule. Use the same procedure as for weekdays.



Press and hold until SAT appears on the display.



WAKE

Press WAKE, LEAVE, RETURN or SLEEP to select the time period.



SLEEP



Use the AHEAD/BACK keys to set the time and the WARMER/ COOLER keys to set the tempera-



ture.



Set the SUNDAY schedule. Use the same procedure as for weekdays.



Press and hold until SUN appears on the display.



WAKE

Press WAKE, LEAVE, RETURN, or SLEEP to select the time period.



SLEEP





Use the AHEAD/BACK keys to set the time and the WARMER/ COOLER keys to set the tempera-





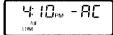


The setting of the program schedule and heating temperatures has been completed. If system has air conditioning, go to Step 3.

NOTE: Some models will show -AC, indicating the thermostat is operating on backup batteries until the thermostat is mounted on the wallplate and the system is powered.



If system does not have air conditioning, press and release to start the program. Go to Step 4.



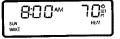
STEP 3 SET THE COOLING TEMPERA-TURES, IF SYSTEM HAS AIR CONDITIONING

The program times are the same for both heating and cooling. Only the cooling temperatures need to be programmed if thermostat has already been programmed for heating. To set times as you program the cooling temperatures, use the TIME AHEAD and BACK keys as described in Step 2.

First program the WAKE temperature for weekdays.

WAKE

Press and release. The display shows WAKE and the time and temperature programmed for heating.

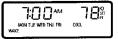


Press and release so COOL shows on the display, along with the preprogrammed cooling temperature.





If display reads SAT or SUN, press and hold until MON TUE WED THU FRI appears.





COOLER

Press and hold until the display shows the desired temperature.

TO DAM TE SET MON THE WED THU FRE COOL WAKE

If the display blinks while holding down TEMPERATURE WARMER or COOLER, the setting limit has been reached. If thermostat can switch automatically between heating and cooling, the cooling temperature must be at least 3 degrees higher than the corresponding heating temperature. For example, if the heating setting is 70° F, the minimum cooling setting is 73° F.

If a lower cooling setting is desired, the heating setting must first be lowered accordingly.

Program the LEAVE temperature, if desired.



Press and release. The display shows LEAVE, the time programmed for heating, and 78° F.







Press and hold until the display shows the desired temperature.



Program the RETURN temperature, if desired.



Press and release. The display shows RETURN, the time programmed for heating, and 78° F.







Press and hold until the display shows the desired temperature.



Program the SLEEP temperature, if desired.



Press and release.







Press and hold until the display shows the desired temperature.



Set the cooling temperatures for the SATURDAY schedule. Use the same procedure as for weekdays.



Press and hold until SAT appears on the display.



WAKE

Press WAKE, LEAVE, RETURN or SLEEP to select the time period.



SLEEP

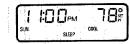


Use the WARMER/COOLER keys to set the temperature.

Set the cooling temperatures for the SUNDAY schedule. Use the same ordedure as for weekdays.



Press and hold until SUN appears on the display.





Press WAKE, LEAVE, RETURN or SLEEP to select the time period.



SLEEP

SLEEP

Use the WARMER/COOLER keys to set the temperature.



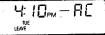
COOLER

The programming of the cooling temperatures has been completed.

NOTE: Some models will show -AC, indicating the thermostat is operating on backup batteries until the thermostat is mounted on the wallplate and the system is powered.



Press and release to start the program.
Go to Step 4.

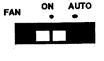


STEP 4 SET THE SYSTEM AND FAN SWITCHES, IF THERMOSTAT HAS THEM.

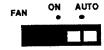
Depending on thermostat model, some or all of the switch positions shown may be available. Note the positions provided on thermostat, then set the switch(es) as desired.

First set the fan switch.

FAN ON: The fan runs continuously. Use for improved air circulation during special occasions or for more efficient electronic air cleaning.



FAN AUTO: Normal setting for most homes. The fan goes on and off with the air conditioner in summer. In winter, the fan on most systems starts a few minutes after the furnace comes on. It stops a few minutes after the furnace goes off. The fan starts and stops with the furnace in some electric heat systems.



Then set the system switch.

HEAT: The thermostat controls your heating system.

OFF: Both the heating and cooling systems are off.

COOL: The thermostat controls your air conditioning system.

AUTO: The thermostat controls either heating or air conditioning system, depending on room temperature.

The programming of the thermostat is finished.

HEAT OFF COOL AUTO

HEAT OFF COOL AUTO

HEAT OFF COOL AUTO

HEAT OFF COOL AUTO

If thermostat was removed from the wall to program, replace it following the procedure on page 22.

Read on to learn about the operating flexibility that makes this thermostat THE SMART CHOICE.

OPERATING THE THERMOSTAT

TEMPORARILY CHANGING THE **PROGRAM**

These features allow the program to be custom-tailored for those times when someone comes home early, or stays up late, or plans to be out for the evening.

To keep the current temperature through the next program period: SKIP NEXT PERIOD

Press and release. The name of the period to be skipped will flash in the display until the next regularly scheduled period starts.

2:42_{PM}

To go back to the temperature of the previous program period:

CHANGE TO LAST PERIOD

Press and release. The display will show the name of the previous period and flash "temporary" until the next regularly scheduled period starts.

근'식근씨

To temporarily raise or lower the temperature for the current period only:



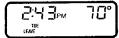
Press and hold until the desired temperature is reached. The display will flash "temporary" until the next programmed time period starts.



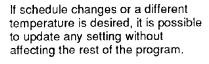
To change back:



Press and release to cancel any of the temporary settings.



PERMANENTLY CHANGING THE **PROGRAM**





Press and release the desired period key.



RETURN

SLEEP



Press and hold until the desired schedule day shows on the display.



Press and hold the Time or Temperature keys until the display shows the desired new program.



RUN PROGRAM

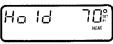
Press and release to return to normal operation.

OPERATING THE THERMOSTAT MANUALLY

This feature is particularly useful when going on vacation or other extended absence. It does not cancel the program.

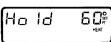


Press and release.





Press and hold to change the temperature setting. After a few seconds the display will show the current temperature.



PRESENT SETTING Press and release to check the temperature setting.

₽ 🚉

RUN PROGRAM Press and release to cancel manual control.

2:45_{PM} 70°

NOTE: Moving the system switch also cancels hold.

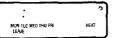
CANCELING PROGRAM SETTINGS

The thermostat requires time and temperature settings in the WAKE period, but any of the others can be canceled. Weekday, Saturday and Sunday settings are canceled separately.



LEAVE

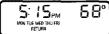
Press and hold the desired period key until the time and temperature clear from the display (about 3 seconds).



RUN PROGRAM

RETURN

Press and release to return to normal operation.



CHECKING THE PROGRAM TIMES AND TEMPERATURES

It is possible to check all the stored settings without affecting the permanent program.



SLEEP

LEAVE

Press and release the desired period key. The start time and temperature setting will appear on the display.



RETURN



Press and release to display the next daily time and temperature for that period.



RUN PROGRAM Press and release to return to normal operation.



CHECKING THE CURRENT TEMPERATURE SETTING

Press a single key to compare current room temperature to the settings at any time.



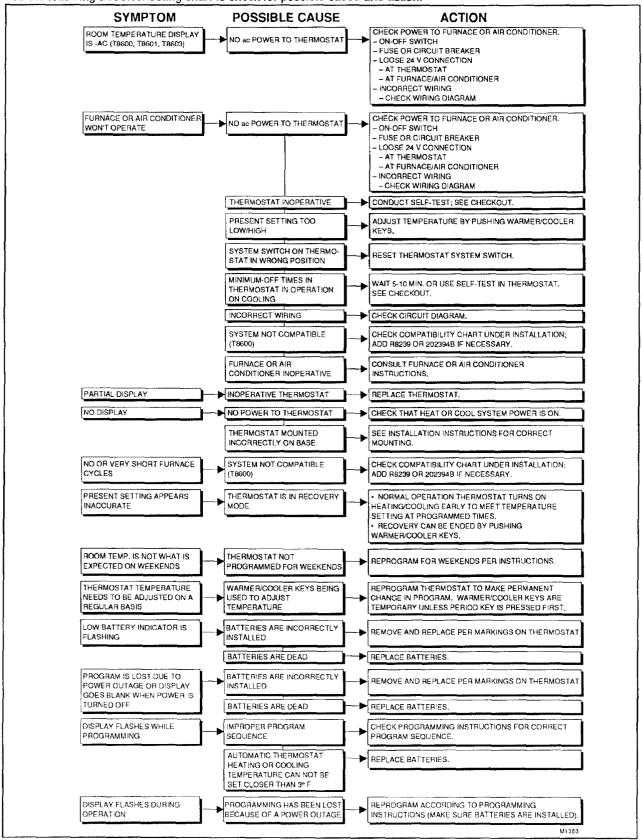
Press and release. The display will show the current temperature setting for several seconds, then revert to the room temperature.



Applicable if thermostat is set for Adaptive Intelligent Recovery™: During recovery from energy savings, the setting displayed will not match the programmed setting. This is because the thermostat gradually changes the temperature setting during recovery to provide most efficient use of the heating or cooling equipment.

TROUBLESHOOTING

Start the system by setting the thermostat and observing system response. If problem occurs, establish symptom and use the following troubleshooting chart to check for possible cause and action.



GLOSSARY

Adaptive Intelligent Recovery™

Recovery automatically starts early enough so house is at the comfort setting by the time chosen.

Comfort temperature

The temperature wanted in the morning and evening when people are home.

Conventional Recovery

Recovery starts at the time programmed into the thermostat; house reaches comfort temperature shortly thereafter.

Energy-saving temperature

The lower (heating) or higher (cooling) temperature that allows savings on heating and cooling costs when asleep or away. Also called the setback (heating) or setup (cooling) temperature.

Period key

One of the four keys—WAKE, LEAVE, RETURN, or SLEEP—to check or program the start time and temperature for a time period.

Preprogrammed schedule

This is the schedule programmed into your thermostat at the factory. It sets a night program that provides energy savings if homeowner doesn't set program, or if personal program is lost for any reason. The program, which is the same for all days of the week, is:

| | Start | Temperature | |
|--------|----------|-------------|---------|
| Period | Time | Heating | Cooling |
| WAKE | 6:00 AM | 70° F | 78° F |
| LEAVE | No | program | |
| RETURN | No | program | |
| SLEEP | 10:00 PM | | 78° F |

Program

The times and temperatures set to define the comfort and energy savings periods for each schedule (weekdays, Saturday, Sunday).

Recovery

The time when the thermostat operates the heating or air conditioning equipment to return the house from the energy savings to the comfort temperature. If thermostat is set for Adaptive Intelligent RecoveryTM, the thermostat starts the recovery period early so the house will be at the comfort setting by the time chosen.

Saturday program schedule

The schedule of WAKE, LEAVE, RETURN and SLEEP period start times and temperatures that homeowner programs to run on Saturdays.

Setback

Reducing the temperature in the house for a set period every day in winter for energy savings. The lower temperature is the energy savings temperature.

Set point

The temperature set on the thermostat. The thermostat turns the heating or cooling equipment on and off to maintain this temperature at the thermostat location until another temperature setting goes into effect.

Setup

Raising the temperature in the house for a set period every day in summer for energy savings. The higher temperature is the energy saving temperature.

Status lights—Lights on some models that show system operating mode.

ENRG SAV light—This light glows during the LEAVE and SLEEP periods.

SYSTEM light—This light glows whenever the thermostat is calling for heating or air conditioning.

Sunday program schedule

The schedule of WAKE, LEAVE, RETURN and SLEEP period start times and temperatures that homeowner programs to run on Sundays.

Time period

One of four program periods; WAKE, LEAVE, RETURN and SLEEP available with the thermostat. One period begins when the previous period ends.

WAKE—For conventional recovery, the time the recovery to the comfortable temperature begins; for Adaptive Intelligent Recovery™, the time period when homeowner wants the house at a comfortable temperature while the family gets up and gets ready to leave for work or school. This is the only period that must contain a time and temperature.

LEAVE—The time period when you can set back (winter) or up (summer) the temperature for energy savings because the family is usually away from home.

RETURN—For conventional recovery, the time the recovery to the comfortable temperature begins; for Adaptive Intelligent Recovery[™], the time period when homeowner wants the house at a comfortable temperature for family activities in the evening before bedtime.

SLEEP—The time period when homeowner can set back (winter) or up (summer) the temperature for energy savings because the family is sleeping. Set it to start at your family's normal bedtime.

Often the SLEEP program is set only for the heating season so family members can sleep cool in summer.

Weekday program schedule

The schedule of WAKE, LEAVE, RETURN and SLEEP period start times and temperatures that homeowner programs to run Monday through Friday.

TYPICAL HOMEOWNER QUESTIONS

1. Why do some models of this thermostat have lights?

Battery-operated thermostats do not have indicator lights to conserve battery power. Others may have one or two indicator lights, depending upon the exact model and application.

2. The temperature displayed on the thermostat doesn't always match the room temperature on another thermostat located right next to it. Why?

The thermostat is a *very* accurate instrument designed to sense both air temperature and wall temperature, much as your body does. It gives an *average* reading over a period of time.

3. Can I control when the furnace comes on in the morning?

When the thermostat is set for Adaptive Intelligent RecoveryTM, it will turn on the furnace as early as necessary to reach your desired comfort temperature at the programmed time. The earliest it will be is 24 minutes per degree setback ahead of your WAKE time, but it will vary depending on your system, the weather and how much the temperature dropped in the house at night.

If you want to control the start time yourself, just switch the thermostat to conventional recovery following the directions on page 25. This way, the furnace won't come on until your programmed WAKE time, but of course it will take a little while for your house to heat up to the comfort temperature.

Remember, whichever way you set your thermostat, if it is so cold outside that your house drops to your sleep temperature, the furnace will turn on and off at night to control the temperature at that setting.

4. What does the HOLD key do?

It bypasses all program settings and holds the temperature at the present setting. To increase or decrease the temperature while on HOLD, use the WARMER-COOLER keys. Touching RUN PROGRAM will return the device to programmed operations.

5. How long does the HOLD key hold?

Forever! The HOLD key will hold the temperature indefinitely. The only way to release it is to push the RUN PROGRAM key or change the system switch positions if applicable. For a *temporary* temperature change, simply press WARMER or COOLER key. This tempo-

rary setting will last until the next scheduled program begins.

6. How can this thermostat save energy when it comes on and off so many times early in the morning hours?

Two ways. First, it saves energy (and money) by setting back the temperature for blocks of time during the day or night. Second, it conserves energy by recovering gradually to the desired temperature. This prevents overshooting your comfort set point (and wasting energy) or undershooting the comfort set point (and forcing you to change the thermostat setting, also wasting energy).

My thermostat has ENRG SAV and SYSTEM lights. Why do they both go on at the same time? (For example: during the sleep period.)

During Adaptive Intelligent Recovery™, when you recover *gradually* to a next set point, you will stay in the energy-saving mode until the next programmed time is reached. But the system will operate intermittently to *gradually* raise the temperature to your desired comfort level before the time you've set as your WAKE time. You will always be saving energy until the next period's *actual* set point is reached.

8. Why don't all thermostat models have AUTO (automatic) changeover from heating to cooling?

Most parts of the country don't have wide temperature swings during a 24-hour period, so it is not necessary. Desert climates, such as Phoenix, are the exception, because of wide variations in temperature which may require both the air conditioner and furnace to run during different times within a given 24-hour period.

9. Sometimes my Chronotherm III thermostat doesn't allow the house temperature to drop to my SLEEP setting before it starts bringing the furnace on. Why?

When you start your SLEEP period, the thermostat will turn off your furnace, and your house temperature will start to fall. After that, the thermostat is out of the picture until the house temperature falls all the way to your SLEEP temperature setting or until recovery starts.

In mild weather or with good insulation, your house temperature may not fall all the way to your SLEEP temperature setting and the thermostat won't turn on your furnace until the time to recover back up to your comfort setting.

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

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