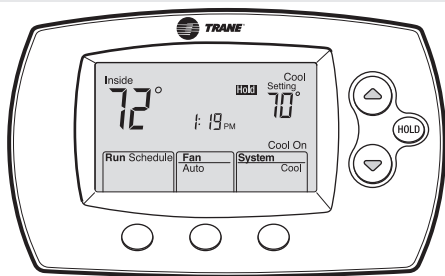




**TRANE**<sup>®</sup>

# TCONT600AF11MA/TCONT602AF22MA Programmable Comfort Control

OWNER'S GUIDE



M28596

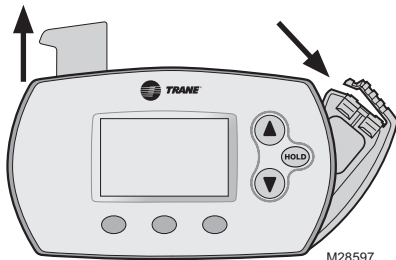
Pub. No. 22-5208-02



69-1836-02

### Quick Reference Card

Grasp and pull to see basic operating instructions at a glance.



### Battery Holder

Press down and pull to remove batteries.

Batteries should be replaced once a year (see page 17).



**CAUTION: EQUIPMENT DAMAGE HAZARD.** To prevent possible compressor damage, do not operate cooling system when outdoor temperature is below 50°F (10°C).

### Need Help?

For assistance with this product please visit [www.trane.com](http://www.trane.com) or call the Customer Assistance Helpline toll-free at **1-800-500-2041**

This thermostat contains a Lithium battery which may contain Perchlorate material. Due to State Law in CA, the following statement is required:  
Perchlorate Material—special handling may apply,  
See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)

**Read and save these instructions.**

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### **This Comfort Control is ready to go!**

Your new Comfort Control is pre-programmed and ready to go. See [page 3](#) to check settings.



**CAUTION: EQUIPMENT DAMAGE HAZARD.** To prevent possible compressor damage, do not operate cooling system when outdoor temperature is below 50°F (10°C).

## About your new Comfort Control

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Congratulations on the purchase of your new Comfort Control. It has been designed to give you many years of reliable service and easy-to-use, push-button climate control.

### Features

- Separately programmable weekday/weekend schedules.
- One-touch temp control overrides program schedule at any time.
- EnergyStar® compliant to greatly reduce your heating/cooling expenses.
- Large, clear, backlit display is easy to read — even in the dark.
- Displays both room temperature and temperature setting.
- Removable battery holder for fast, easy replacement.
- Built-in compressor protection.

## **This Comfort Control is ready to go!**

---

Your new Comfort Control is pre-programmed and ready to go. All you have to do is set the time and day. Then check the settings below and change if needed:

1. **Set time and day (required for proper operation)**.....*See page 6*
2. **Select fan setting (Auto/On):** Preset to Auto.....*To change, see page 7*
3. **Select system setting (Heat/Cool):** Preset to Heat .....*To change, see page 8*
4. **Program schedules:** Preset to energy-saving levels while you're at work or asleep (assumes you wake at 6 am, leave at 8 am, return at 6 pm and go to bed at 10 pm) .....*To change, see pages 9-11*



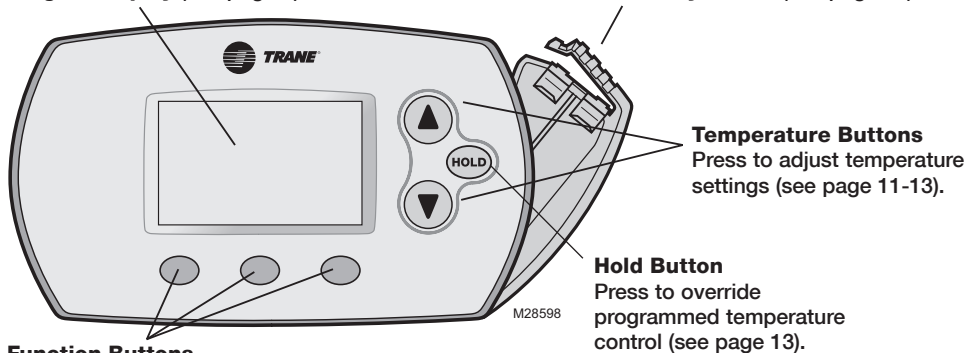
**ONE-TOUCH TEMP CONTROL:** You can override the program schedule at any time, and manually adjust the temperature (see pages 12-13).

## Quick reference to controls

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**Digital display** (see page 5).

**Battery holder** (see page 17).



**Temperature Buttons**  
Press to adjust temperature settings (see page 11-13).

**Hold Button**  
Press to override programmed temperature control (see page 13).

### **Function Buttons**

Press to select the function displayed just above each button. (Functions change depending on the task.)

## Quick reference to display screen

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**Current inside temperature**

**In Recovery**  
(see page 16)

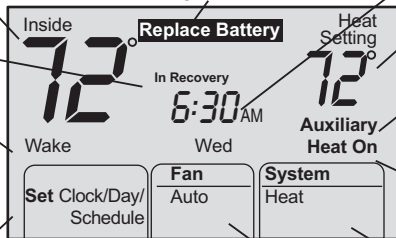
**Current program period**  
Wake/Leave/Return/Sleep  
(see pages 9-11)

**Set Clock/Day/Schedule**  
(see pages 6 & 11)

**Function buttons**

Press the button beneath each function to view or change settings (functions change depending on the task)

**Low battery warning**  
(see page 17)



**Current time/day**  
(see page 6)

**Temperature setting**  
(see pages 11-13)

**Auxiliary heat**  
(Only for heat pumps with auxiliary heat)

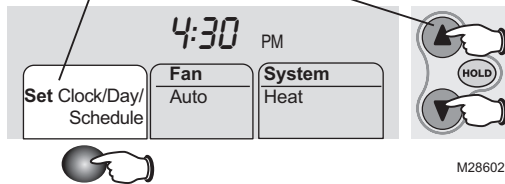
**System status**  
Heat On/Cool On (If flashing, see page 15)

**System setting**  
Heat/Cool/Auto/Off/Em Heat (see page 8)

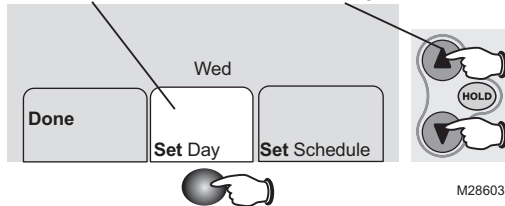
**Fan setting**  
Auto/On (see page 7)

## Set the time and day

Press **SET CLOCK/DAY/SCHEDULE**, then adjust time



Press **SET DAY**, then select current day



1. Press the **SET CLOCK/DAY/SCHEDULE** button, then press ▲ or ▼ to set the clock time.
2. Press the **SET DAY** button, then press ▲ or ▼ to select the day of the week.
3. Press **DONE** to save & exit.

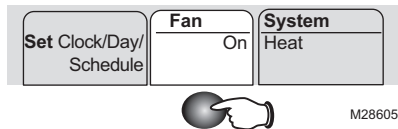
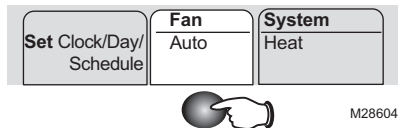
**Note:** If the **SET CLOCK/DAY/SCHEDULE** option is not displayed, press **DONE** or **RUN SCHEDULE**.

**Note:** If the display flashes Set Clock, the thermostat will follow your settings for the weekday “Wake” time period until you reset the time and day.



## Select the fan setting

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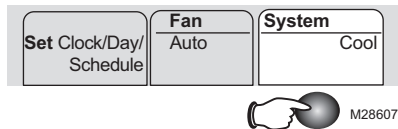
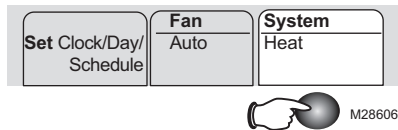



Press the **FAN** button to select Auto or On.

In “Auto” mode (the most commonly used setting), the fan runs only when the heating or cooling system is on. If set to “On,” the fan runs continuously. Use this setting for improved air circulation, or for more efficient air cleaning.

## Select the system setting

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 **Note:** The Auto and Em Heat system settings may not appear, depending on how your Comfort Control was installed.

Press the **SYSTEM** button to select:

- **Heat:** Controls only the heating system.
- **Cool:** Controls only the cooling system.
- **Off:** Heating and cooling systems are off.
- **Auto:** Automatically selects heating or cooling depending on the indoor temperature.
- **Em Heat** (only for heat pumps with auxiliary heat): Controls Emergency Heat. Compressor is locked out.

## Save money by setting program schedules

---

It's easy to program your system for maximum energy savings. You can program four time periods each day, with different settings for weekdays and weekends.



**WAKE**  
6:00 am  
70°

Set to the time you awaken and the temperature you want during the morning, until you leave for the day.



**LEAVE**  
8:00 am  
62°

Set to the time you leave home and the temperature you want while you are away (usually an energy-saving level).



**RETURN**  
6:00 pm  
70°

Set to the time you return home and the temperature you want during the evening, until bedtime.







**SLEEP**  
10:00 pm  
62°

Set to the time you go to bed and the temperature you want overnight (usually an energy-saving level).

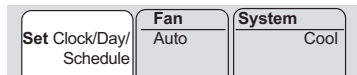
## EnergyStar® settings for maximum cost savings

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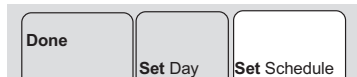
This Comfort Control is pre-set to use EnergyStar® program settings. We recommend these settings, since they can reduce your heating/cooling expenses by as much as 33%. (See next page to adjust times and temperatures of each time period.)

		Heat (Mon-Fri)	Cool (Mon-Fri)	Heat (Sat-Sun)	Cool (Sat-Sun)
<b>Wake</b> (6:00 am)		70°	75°	70°	75°
<b>Leave</b> (8:00 am)		62°	83°	62° [Or cancel period]	83° [Or cancel period]
<b>Return</b> (6:00 pm)		70°	75°	70° [Or cancel period]	75° [Or cancel period]
<b>Sleep</b> (10:00 pm)		62°	78°	62°	78°

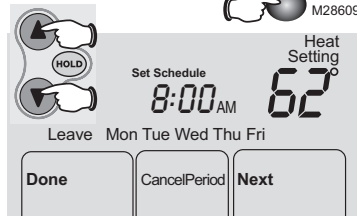
## To adjust program schedules



M28608



M28609



M28610

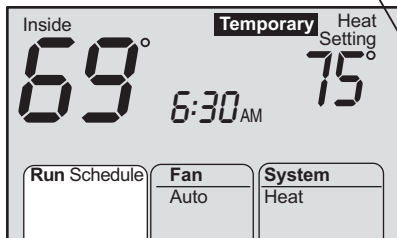
1. Press **SET CLOCK/DAY/SCHEDULE**, then **SET SCHEDULE**.
2. Press **▲** or **▼** to set your weekday Wake time (Mon–Fri), then press **NEXT**.
3. Press **▲** or **▼** to set the temperature for this time period, then press **NEXT**.
4. Set time and temperature for the next time period (Leave). Repeat steps 2 and 3 for each weekday time period.
5. Press **NEXT** to set weekend time periods (Sat–Sun), then press **DONE** to save & exit.

**Note:** Make sure the Comfort Control is set to the system you want to program (Heat or Cool).

**Note:** You can press **CANCEL PERIOD** to eliminate unwanted time periods (except Wake).

## Program schedule override (temporary)

Press to temporarily adjust temperature.



M28611

Press to cancel temporary setting and resume program schedule.

**Note:** Make sure the Comfort Control is set to the system you want to control (heat, cool or auto).

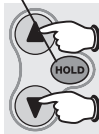
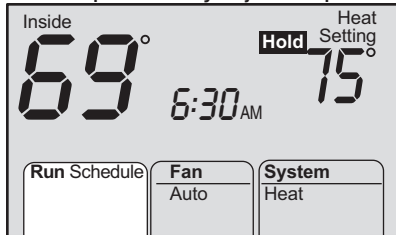
Press ▲ or ▼ to immediately adjust the temperature. This will temporarily override the temperature setting for the current time period.

The new temperature will be maintained only until the next programmed time period begins (see page 10). For example, if you want to turn up the heat early in the morning, it will automatically be lowered later, when you leave for the day.

To cancel the temporary setting at any time, press **RUN SCHEDULE**.

## Program schedule override (permanent)

Press to permanently adjust temperature.



M28612

Press to cancel “Hold” setting and resume program schedule.

**Note:** Make sure the Comfort Control is set to the system you want to control (heat, cool or auto).

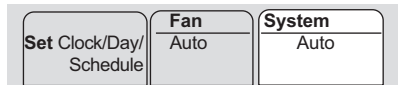
Press **HOLD** to permanently adjust the temperature. This will override the temperature settings for all time periods.

The “Hold” feature turns off the program schedule and allows you to adjust the thermostat manually, as needed.

Whatever temperature you set will be maintained 24 hours a day, until you manually change it, or press **RUN SCHEDULE** to cancel “Hold” and resume the programmed schedule.

## Auto Changeover (heat/cool)

---



Press until screen displays "Auto"



**Note:** The Auto system setting may not appear, depending on how your thermostat was installed.

Auto Changeover is a feature used in climates where both air conditioning and heating are used on the same day. When the system is set to Auto, the Comfort Control automatically selects heating or cooling depending on the indoor temperature.

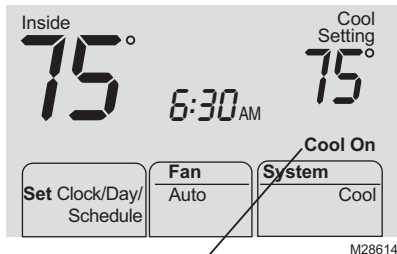
Heat and cool settings must be at least 3 degrees apart. The Comfort Control will automatically adjust settings to maintain this 3-degree separation (called "deadband").

The 3-degree separation between heating and cooling set temperatures is fixed, and cannot be changed.



## Built-in compressor protection

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Message flashes until safe restart time has elapsed

This feature helps prevent damage to the compressor in your air conditioning or heat pump system.

Damage can occur if the compressor is restarted too soon after shutdown. This feature forces the compressor to wait for a few minutes before restarting.

During the wait time, the display will flash the message Cool On (or Heat On if you have a heat pump). When the safe wait time has elapsed, the message stops flashing and the compressor turns on.

## Adaptive Intelligent Recovery (AIR)

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Adaptive Intelligent Recovery eliminates guesswork when setting your schedule. It allows the Comfort Control to “learn” how long your furnace and air conditioner take to reach the temperature you want.

Just set your program schedule to the time you want the house to reach your desired temperature. The Comfort Control then turns on the heating or cooling at just the right time to reach your scheduled temperature at your scheduled time.

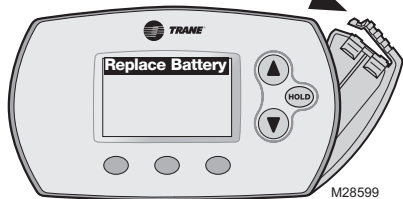
For example: Set the Wake time to 6 am and the temperature to 70°. The heat will come on before 6 am, so the temperature is 70° by the time you wake at 6.



**Note:** When Adaptive Intelligent Recovery is in effect, the thermostat will display “In Recovery”.

## Battery Replacement

Press and pull to remove



M28599

Insert fresh AA alkaline batteries, then reinstall battery holder.



M28615

Batteries are optional (to provide backup power) if your Comfort Control was wired to run on AC power when installed.

Install fresh batteries immediately when the **REPLACE BATTERY** warning begins flashing. The warning flashes about two months before the batteries are depleted.

Even if the warning does not appear, you should replace batteries once a year, or before leaving home for more than a month.

If batteries are inserted within two minutes, the time and day will not have to be reset. All other settings are permanently stored in memory, and do not require battery power.

## In case of difficulty

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If you have difficulty with your thermostat, please try the following suggestions. Most problems can be corrected quickly and easily.

### **Display is blank**

- Check circuit breaker and reset if necessary.
- Make sure power switch at heating & cooling system is on.
- Make sure furnace door is closed securely.
- If thermostat is battery powered, make sure fresh AA alkaline batteries are correctly installed (see page 17).

### **Temperature settings do not change**

Make sure heating and cooling temperatures are set to acceptable ranges:

- Heat: 40° to 90°F (4.5° to 32°C).
- Cool: 50° to 99°F (10° to 37°C).

### **To restore Energy Star® default settings**

Follow these steps to restore Energy Star default settings (see page 10):

1. Press **SET CLOCK/DAY/SCHEDULE**.
2. Press **SET SCHEDULE**.
3. Press **DONE** and **NEXT** at the same time for 4 seconds.

## In case of difficulty

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### Heating or cooling system does not respond

- Press **SYSTEM** button to set system to Heat. Make sure the temperature is set higher than the Inside temperature.
- Press **SYSTEM** button to set system to Cool. Make sure the temperature is set lower than the Inside temperature.
- Check circuit breaker and reset if necessary.
- Make sure power switch at heating & cooling system is on.
- Make sure furnace door is closed securely.
- Wait 5 minutes for the system to respond.

### “Cool On” or “Heat On” is flashing

- Compressor protection feature is engaged. Wait 5 minutes for the system to restart safely, without damage to the compressor (see page 15).

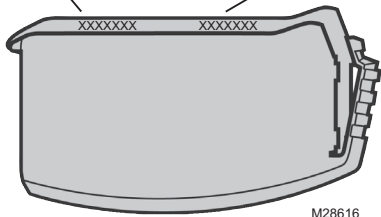
## Customer assistance

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Model number

Date code



For assistance with this product call your HVAC Contractor or visit [www.trane.com](http://www.trane.com). Or call the Customer Assistance Helpline toll-free at **1-800-500-2041**.

To save time, please remove the battery holder and note your model number and date code before calling.

### Accessories/replacement parts

Battery holder.....Part No. THT02506

Cover plate assembly\* ....Part No. BAYCOVR700A

\*Use to cover marks left by old thermostats.

## **Limited 5-year warranty**

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### **Limited Warranty Low Voltage Room Comfort Controls (Parts Only)**

This limited warranty is extended by the manufacturer to the original purchaser and to any succeeding owner of the real property to which the low voltage room comfort control is originally affixed and applies to products purchased and retained for use within the U.S.A. and Canada.

The limited warranty period begins when the low voltage room comfort control installation is complete, verified by installer's invoice or similar document. If installation completion and start-up date cannot be verified by installer's invoice or similar document, limited warranty coverage begins six (6) months after the date of manufacture based on the low voltage room comfort control serial number.

If any part of your low voltage room comfort control fails because of a manufacturing defect within five (5) years from the date the limited warranty period begins, Warrantor will furnish without charge a new low voltage room comfort control. Any local transportation, related service labor, and diagnosis calls, are not included.

This limited warranty does not apply if the low voltage room comfort control was purchased direct (i.e. from internet websites or auctions) on an uninstalled basis. Additionally, this limited warranty will not apply unless the low voltage room comfort control is: (1) installed by a licensed

## **Limited 5-year warranty**

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or qualified HVAC technician, (2) applied and installed in accordance with the manufacturer's recommendations in its Installer's Guide, and (3) in compliance with all industry standards, national, state, and local codes.

This limited warranty does not cover your low voltage room comfort control if it is damaged while in your possession; including, but not limited to (1) damage caused by unreasonable use of the low voltage room comfort control, (2) damage from failure to properly maintain the low voltage room comfort control as set forth in the Use and Care manual, (3) damage that is not considered a manufacturing defect, such as acts of God, malfunctions or failures resulting from fire, water, storms, lightning, earthquake, theft, riot, misuse, abuse, increased utility usage costs, or (4) performance problems due to improper selection / equipment match-up, installation, or application.

THE LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESSED OR IMPLIED, IN LAW OF IN FACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, AND IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.



## Limited 5-year warranty

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Some states do not allow limitations on how long an implied limited warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Parts will be provided by our factory organization through an authorized service organization in your area listed in the yellow pages. If you wish further help or information concerning this limited warranty, contact:

Residential Systems  
6200 Troup Highway  
Tyler, TX 75707  
Attention: Consumer Relations

Or visit our website: [www.trane.com/residential](http://www.trane.com/residential)

TW-1019-3308







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69-1836—02 M.S. Rev. 11-08

Pub. No. 22-5208-02 11/08