



## Setup/Programming Instructions

# Programmable Touch Screen Thermostat

Order Numbers: X13511538010, BAYSTAT152A, THT02775



Illustration shows a typical Home screen display.

**Note:** Any graphics shown in red are only for emphasis in this document and do not represent the actual thermostat display screen colors.

X39641189-01

### SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

June 2020

BAS-SVN202C-EN

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Bubbled letters correspond to the letters indicated in each section title.



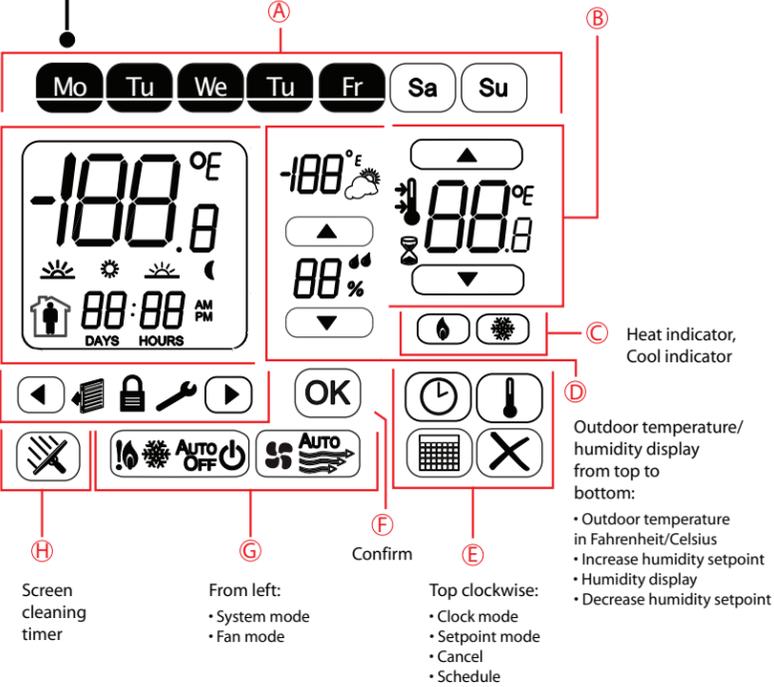
From top to bottom:  
• indoor temperature in Fahrenheit/Celsius  
• Schedule periods (morning/day/evening/night)  
• Occupancy status  
• Clock  
• AM/PM  
• DAYS  
• HOURS

From left:  
• Left arrow adjustment  
• Filter change  
• Touch screen lock  
• Configuration/test  
• Right arrow adjustment

Days of the week (Mo-Fr shown selected Sa and Su shown unselected)

Setpoint display from top clockwise:

- Increment
- Fahrenheit/Celsius
- Decrement
- Override hourglass
- Cool/heat setpoint thermometer
- Temperature setpoint



Heat indicator, Cool indicator

Outdoor temperature/humidity display from top to bottom:

- Outdoor temperature in Fahrenheit/Celsius
- Increase humidity setpoint
- Humidity display
- Decrease humidity setpoint

From left:  
• System mode  
• Fan mode

Top clockwise:  
• Clock mode  
• Setpoint mode  
• Cancel  
• Schedule

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## Time Setup (D, E, F, I, J)

To set time:

1. From the Home screen (typical Home screen shown in Panel 1), touch (D) to activate the **Time Setting Mode**. The LCD screen displays hours:minutes (with the hours blinking to indicate it is selected) and either AM or PM as shown:



2. Touch either (I) or (J) to switch between hours or minutes. To change clock to either 12-hour or 24-hour readout, refer to the *Installation/Configuration Instructions* (X39641190-01) or the *Touch Screen Thermostat Installation and Operation Manual* (BAS-SVX044).
3. Touch (E) or (F) to increment or decrement the hours/minutes. Touch and hold either button for more than 1 second to fast scroll through values.
4. Touch (OK) to save and exit **Time Setting Mode**.  
**Note:** A 20-second time out will also save and exit **Time Setting Mode**.
5. Touch (X) to exit without saving any changes.

## Dehumidify Setup (D, E, F)

**Note:** This function is displayed only for systems configured with dehumidify enabled. Refer to the *Installation/Configuration Instructions* (X39641190-01), and *Option Number 0200*.

To set dehumidification setpoint:

1. Touch (H) to activate the **Dehumidify Setting Mode**. The LCD screen displays the current humidity setpoint with adjustment arrows.
2. Touch (E) or (F) to increment or decrement the humidity setpoint by 1% increments. Touch and hold either button for more than 1 second to fast scroll through values.  
**Note:** Dehumidification setpoint can be adjusted from 30% to 80%.
3. Touch (OK) to save and exit **Dehumidify Setting Mode**.  
**Note:** A 20-second time out will also save and exit **Dehumidify Setting Mode**.
4. Touch (X) to exit without saving any changes.

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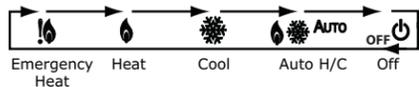
## System Mode Setup (E, F, G)

**Note:** All system icons may not be available—this is configuration setup dependent. Refer to the *Installation/Configuration Instructions* (X39641190-01), and *Option Number 0130*.

To set the system mode:

1. Touch (H) area to activate the **System Mode** setup. All system mode settings available (from *Option Number 0130*) are visible with the current system setting blinking. Each touch in the system selection box will step to the next available setting as shown in Figure 1.

Figure 1. System Selection Box



2. Choose a system mode and then either touch (OK) or a 20-second time out will save the system mode setting and return to the Home screen.

**Note:** Touching another active area on the display screen (such as clean screen, clock, humidity, or schedule) will also save the system mode setting selected in Step 2 and activate the newly selected system setting.

Touching Cancel (X) will exit system mode setup without saving any changes.

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## Resetting Filter Change Indicator (I)

Filter change indicates when the system filter timer has expired. The filter icon will blink continuously 1.5 seconds ON and 0.5 seconds OFF from the Home screen or TOV active screen until reset.

To reset the filter change indicator, press and hold both left and right arrows at the same time for 3 seconds. (Refer to the image below and to Panel 2 for the location of these icons.)



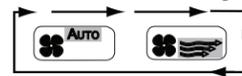
**Note:** Default setting for filter replacement is one (1) month. To change the duration, refer to *Installation Configuration Option 0275*.

## Fan Mode (E, F, G)

**Note:** The fan is only displayed on systems configured with the fan enabled. If disabled, then the fan icon on the LCD screen is not visible. The Fan mode is typically configured in *Schedule Setup* (refer to *Schedule Setup*, Panel 8). Fan mode changes (as described here) from the Home screen initiates a temporary override (TOV).

To enter fan mode:

1. Touch (H) area to activate the **Fan Display Mode** and the active Fan mode will blink.  
**Note:** Touching (OK), (X), another active area, or a 20-second time out will return to the Home screen without making changes to the fan.
2. Next, touch in the fan selection box to put the thermostat in **TOV Timed Override Mode** and to step to the next available setting as shown below.



Auto Mode: Auto Flashes  
On Mode: Arrows Flash

3. Refer to the section, **Timed Override (TOV) Setup** (Step 3) in Panel 6, for the next actions or touch (X) to cancel and return to the Home screen.

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## Timed Override (TOV) (B, C, E, F, G)

TOV can be used to temporarily override the scheduled temperature setpoint and/or fan settings. There are two ways to enter TOV Mode from the Home screen:

- **Quick TOV:** Touch the Occ (H) or Unocc (I) icon from the Home screen. A TOV session will start up using the last occupied schedule setpoint settings, the last occupied fan setting, and the default TOV time period (*Option Number 0230*). Touch (OK) or wait for a 20-second time out to put the thermostat into **quick TOV Active Mode**; OR
- **User Configurable TOV:** Touch either the Up or Down arrow to blink the setpoint for 20 seconds. Touch the Up or Down arrows within 20 seconds to change the setpoint and put the thermostat into **TOV Setpoint Change Mode**; OR

Touch the Fan to blink the present Fan setting for 20 seconds. Touch the Fan area within 20 seconds to change the Fan setting and put the thermostat into **TOV Setpoint Change Mode**.

In **TOV Setpoint Change Mode**, further adjustments can be made to the setpoint or Fan mode with the Up, Down, or Fan areas.

**Note:** For Auto H/C systems, use the cool mode icon (F) or the heat mode icon (E) to toggle between cool and heat setpoints respectively.

- To adjust the TOV time period:
  - Touch the clock icon (D) to enter **TOV Time Setup Mode**. The left/right arrow (I) or (J) will toggle between Days/Hours and the middle Up/Down arrows (E) or (F) will increment or decrement the time.  
**Note:** A second touch of the clock icon (D) will put the thermostat into **Hold Mode** which holds the TOV settings indefinitely until canceled by the user. Additional touches of the clock icon (D) will toggle the thermostat between **DAYS/HOURS** and **Hold**.
  - Toggle back to readjust the setpoint(s) by touching the thermometer icon (B).
  - Touch (OK) area to activate the desired settings. Active TOV is indicated by a solid non-blinking hourglass (C).
  - Note:** Desired settings are also activated after a 20-second time out.
- To **Cancel** the TOV time period, touch (X) at any time to cancel and exit **TOV Mode**.

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## Timed Override (TOV) [Continued]

### General Notes:

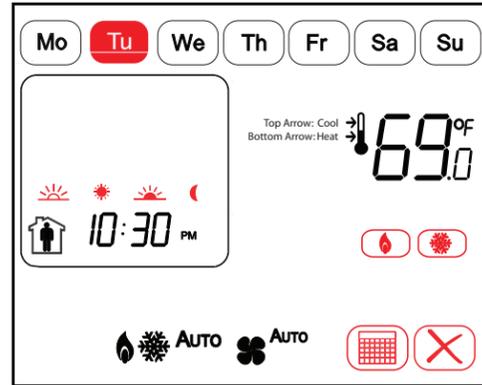
- TOV setup has three modes: **TOV Setpoint Setup**, **TOV Time Setup**, and **TOV Active**.
- If Fan is enabled, then TOV Fan setting can be changed in either **TOV Setpoint Mode** or **TOV Time Setting Mode**.
- If a TOV is in active status, then those TOV settings become the starting setpoints if entering into a new User Configurable TOV session.
- Fan icons do not display on the LCD screen if the system is not configured for fans.
- The (OK) confirm icon is not displayed when the user is in **TOV Active Mode**.
- When starting/activating TOV, the (C) displays solid indicating that TOV is **ACTIVE**.
- **Quick TOV Active Mode** will show Occ (H) icon while **User Configurable TOV Active Mode** Occ/UnOcc will be blank.
- In **Quick TOV Active Mode**, the typical display will show the TOV time remaining as HH:MM (Hours:Minutes) for 45 seconds. After the 45 seconds, the display will cycle to Time of Day with AM/PM for 10 seconds, followed by HH:MM for 5 seconds, and continue repeating Time of Day and HH:MM until time expires or **Cancel**.
- In **User Configurable TOV Active Mode**, the typical display will show DD:HH (DD is days and HH is Hours). After the 45 seconds, the display will cycle to Time of Day with AM/PM for 10 seconds, followed by Days (for 3 seconds) if 1 day or more TOV time left, HH:MM (for 5 seconds), and continue repeating Time of Day, Days, and HH:MM until time expires or **Cancel**.
- During a power outage, if the unit was in TOV mode, it will return to the last TOV settings when power is returned.
- TOV is not available in non-programmable mode (refer to *Installation Option Number 0140*).

## Schedule Setup

### Schedule Display Mode (A C E J)

This display mode is used to view current settings such as setpoints, periods, and day of the week as shown in the illustration on the right. When in **Schedule Display Mode**, the user cannot change settings.

- From **Home** screen, touch to enter Schedule Display mode.
- Touch any of the to view the day or day group schedule. The day selected is displayed in an inverse graphic (similar to the **Tu** weekday as shown). Only one day or day group can be selected at one time. Day groups are determined by *Installation Option Number 0233*.
- Touch any to view its current schedule. The current period will blink.
- For Auto H/C systems, touch or to toggle between Cool or Heat setpoints. Either icon will blink depending on which setpoint is being displayed.
- Touch cancel () to exit **Schedule Display** mode or after 20-second time out.
- Touch blinking to proceed to the next section, **Day/Time/Period Schedule Change Mode**, before the 20-second time out. Time out changes to 60 seconds for the change modes.



### Day/Period/Time Schedule Change Mode (A B E J)

This mode is used to select the day, day group, multiple day groups, period times, fan, and occupancy. The default settings, *Number of Periods*, *Occupancy Settings*, and *Day Groups*, are configured using *Installation Option Numbers 0231, 0232, and 0233* respectively.

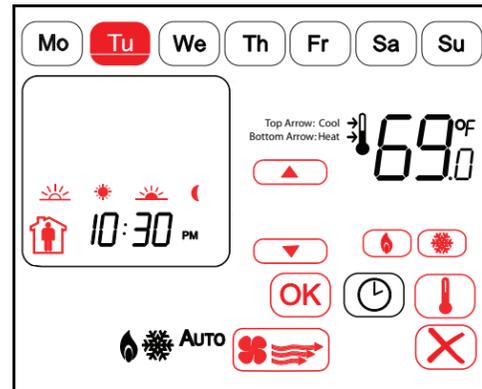
To change day/period/time:

- First day or day group active is carried over from the schedule display mode. To change/add multiple days or day groups, touch the desired weekday icon (Mo, Tu, We, and so on). The day or day groups are toggled ON or OFF with each touch.
- Touch to select the period of day.
- To change the start time of the selected period, touch either or to increment or decrement the time in 15-minute increments.
- Touch to change the occupancy setting to either occupied () or unoccupied (), if desired.
- If Fan is enabled, touch the Fan area to change to desired Fan setting.
- Repeat steps 1 through 5 to set the start times and occupancy for all days/periods.
- Touch to proceed to the next section, **Setpoint Schedule Mode**, before the 60-second time out.

**Note:** The first single day or day group selected is the master. Any additional day or day groups selected are temporarily loaded with the master values. Any changes will apply to all selected day or day groups.

**Note:** Day or Day Groups can only be selected in **Day/Period/Time Schedule Change Mode**.

- Note:** Touch and to toggle between **Day/Period/Time Schedule Change Mode** and **Setpoint Schedule Mode**.
- Note:** Selecting **OK** will save changes and **Cancel** will remove any changes since the last save and then exit schedule change mode.



The following are the available day group schedules that can be configured with Installation Option Number 0233:

- All Days [default]: (Mo Tu We Th Fr Sa Su)
- Five days, plus one day, plus one day: (Mo Tu We Th Fr) (Sa) (Su)
- Five days, plus two days: (Mo Tu We Th Fr) (Sa Su)
- Seven individual days: (Mo) (Tu) (We) (Th) (Fr) (Sa) (Su)

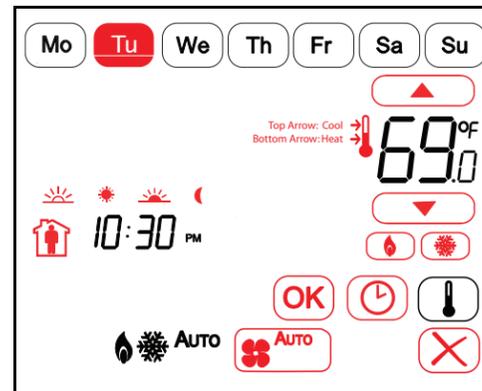
### Setpoint Schedule Change Mode (B C E F J)

This mode is used to set the heat and/or cool setpoint, occupancy, and fan settings for the selected day, day group, or multiple day groups. Day or Day Groups cannot be changed in this mode. Default setpoints are shown in Panel 9. To change the setpoint/fan schedule:

- From the previous section, touch to select the period of day.
- To change the setpoint of the selected period, touch either or to increment or decrement the setpoint temperature.
- For Auto H/C systems, touch or to toggle between cool setpoint and heat setpoint.
- Touch area to change the fan mode for the selected period.
- Touch to change the occupancy setting for the selected period to either occupied () or unoccupied (), if desired.
- Repeat steps 1 through 5 to set all fan, occupancy, and temperature setpoints for each period as required.
- When all changes are completed, touch **OK** to save settings. A second touch of **OK** will exit out of **Schedule Change** mode, and return to the **Home** screen. A 60-second time out will also save settings.

**Note:** Day or day groups cannot be changed in **Setpoint/Fan Schedule Change Mode**. The user must return to **Day/Period/Time Schedule Change Mode** to select different days or day groups.

**Note:** Touch and to toggle between **Day/Period/Time Schedule Change Mode** and **Setpoint Schedule Mode**.



### General Notes for All Schedule Modes

- Touching **Cancel** () will cause all changes after the last save to be lost, the display will return to the Home screen, and the system will return to the last saved schedule settings.
- When any changes are made to the schedule, the first touch of **OK** will save changes and return to the last schedule change mode. The second touch of **OK**, if no further changes are made, will exit **Schedule Change Mode** and return to the **Home** screen or **TOV**, if still active.
- Screens may vary depending on configuration settings.
- Schedule mode is not available in non-programmable mode (refer to *Installation Option Number 0140*).

Table 1. Default settings and worksheet

Symbol Legend Listed Below					
4-Period Defaults		6:00 AM	70°F (21.0°C)	78°F (25.5°C)	AUTO
		8:00 AM	62°F (16.5°C)	85°F (29.5°C)	AUTO
		6:00 PM	70°F (21.0°C)	78°F (25.5°C)	AUTO
		10:00 PM	62°F (16.5°C)	82°F (28.0°C)	AUTO
2-Period Defaults		8:00 AM	70°F (21.0°C)	78°F (25.5°C)	AUTO
		10:00 PM	62°F (16.5°C)	82°F (28.0°C)	AUTO
Monday		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
Tuesday		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
Wednesday		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
Thursday		:	°	°	AUTO/
		:	°	°	AUTO/
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		:	°	°	AUTO/
Friday		:	°	°	AUTO/
		:	°	°	AUTO/
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		:	°	°	AUTO/
Saturday		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
Sunday		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/
		:	°	°	AUTO/

Legend of symbols: Morning Day Evening Night Time Heat Cool Fan ON

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