From any of the screens on Page 15, you can press the HOLD (right) button to begin entering your program schedule. The days shown on the display will all be programmed simultaneously.

Once the **HOLD** (right) button is pressed. **MORN** blinks.

Use the up or down button to select a different period (MORN, DAY, EVE, NITE).

Press HOLD (right) button to advance to the next screen. Transition time hour blinks. Use the up or down button to select a different hour.

Press HOLD (right) button to advance to the next screen. Transition time minutes blink Use the up or down button to select different minutes.

Press HOLD (right) button to advance to the next screen. Heat set temperature displays Use the up or down button to adjust the heat set temperature.

Press HOLD (right) button to advance to the next screen. Cool set temperature displays Use the up or down button to adjust the cool set temperature.

Repeat above steps to program the four periods per day.

When the program schedule is complete, press and hold the PROG and HOLD buttons (pressed simultaneously) in for 2 seconds to return to the OFF mode

Lockout Feature

The SC3211L has a button lockout feature so the mode cannot be changed and the temperature adjustment is limited. Select the appropriate lockout from Configuration Mode Settings (Step 6, Page 9) of this guide.

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1. Simultaneously press the PROG, HOLD and UP buttons for 10 seconds. 2. LOC will display and the lockout function will be enabled.

To deactivate the LOC feature, repeat steps 1 and 2 above.

To activate the LOC feature:

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Factory Preprogramming

The SC3211L comes preprogrammed with the following schedule:

MONDAY	MORN	6:00 AM	DAY	8:00 AM	EVE	6:00 PM	NITE	10:00 PM
thru	HEAT	70°F	HEAT	62°F	HEAT	70°F	HEAT	62°F
SUNDAY	COOL	78°F	COOL	85°F	COOL	78°F	COOL	82°F

Personal Program Schedule

Use the following personal program schedule to record your settings:

MONDAY	MORN	DAY	EVE	NITE
1	HEAT	HEAT	HEAT	HEAT
	COOL	COOL	COOL	COOL
TUESDAY	MORN	DAY	EVE	NITE
2	HEAT	HEAT	HEAT	HEAT
	COOL	COOL	COOL	COOL
WEDNESDAY	MORN	DAY	EVE	NITE
3	HEAT	HEAT	HEAT	HEAT
	COOL	COOL	COOL	COOL
		<u>.</u>		

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THURSDAY	MORN	DAY	EVE	NITE
4	HEAT	HEAT	HEAT	HEAT
	COOL	COOL	COOL	COOL
FRIDAY	MORN	DAY	EVE	NITE
5	HEAT	HEAT	HEAT	HEAT
	COOL	COOL	COOL	COOL
SATURDAY	MORN	DAY	EVE	NITE
6	HEAT	HEAT	HEAT	HEAT
	COOL	COOL	COOL	COOL
SUNDAY	MORN	DAY	EVE	NITE
7	HEAT	HEAT	HEAT	HEAT
	COOL	COOL	COOL	COOL
				· · · · ·

SimpleSet[™] Field Programming

This feature is used for transferring configuration and program schedule from the master to the target thermostat. All thermostats for a job can be mounted and powered up. Configure and program one thermostat. This will be the master. The master will be used to copy the program to the rest of the thermostats. Preparing the master to Send:

- 1. The master must be powered by 24 VAC.
- 2. Verify the master thermostat is in OFF mode. Slide system switch to center position

Symptom

System fan does not come on properly

Program schedule activates at the wrong

Thermostat turns on and off too frequently

Thermostat does not follow program

"PROGram" flashes (in Hold mode)

Fan runs continuously

Problem not listed above

No display

- 3. Remove cover of the master thermostat by gently pulling near one of the corners at the top of the thermostat
- 4. Press the up and down buttons and CONFIG switch simultaneously for 5 seconds.



transfer data.

*** Note: Press the up and down buttons and CONFIG switch simultaneously for 5 seconds to exit from data transfer mode and to return the master to the OFF mode. 6. Connect the master to the target using the 3 wire connector. Attach one end to the Master's

FP pins and the other end to the Target's FP pins.

** Note: Target thermostat must be powered by 24 VAC for field programming to occur When the connection has been made correctly, the master thermostat will power up and the target will count from 6 down to 1. It will then display LOC confirming the data has been saved in memory.

When all target thermostats have been completed, reinstall the master thermostat

Press the up and down buttons and the CONFIG switch simultaneously for 5 seconds to exit from the data transfer mode and to return the master thermostat to the OFF mode

Troubleshooting

Verify wiring is correct

Page 14)

Page 8)

/erifv 24 VAC is at thermostat

Remedy

Check time (AM/PM) set on thermostat (see "Setting the Time.

Verify it is operating in Program mode (PROG solid in display);

check time (AM/PM): check if in Hold mode (PROG flashes)

Press Hold button to remove from Hold mode (PROG solid) Check Fan Auto/On switch, continuous fan operation in ON

Adjust temperature differential (see "Configuration Mode Settings,



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12:00

ONE-YEAR LIMITED WARRANTY

The Seller warrants its products against defects in material or workmanship for a period of one (1) year from the date of manufacture. The liability of the Seller is limited, at its option, to repair, replace or issue a non-case credit for the purchase prices of the goods which are provided to be defective. The warranty and remedies set forth herein do not apply to any goods or parts thereof which have been subjected to misuse including any use or application in violation of the Seller's instructions, neglect, tampering, improper storage, incorrect installation or servicing not performed by the Seller. In order to permit the Seller to properly administer the warranty, the Buyer shall: 1) Notify the Seller promptly of any claim, submitting date code information or any other pertinent data as requested by the Seller, 2) Permit the Seller to inspect and test the product claimed to be defective. Items claimed to be defective and are determined by Seller to be non-defective are subject to a \$30.00 per hour inspection fee. This warranty constitutes the Seller's sole liability hereunder and is in lieu of any other warranty expressed, implied or statutory Unless otherwise stated in writing, Seller makes no warranty that the goods depicted or described herein are fit fo any particular purpose.

* Reset Button Function: Time, day and program/non-program changed to last saved settings (saved after program or configuration change), configuration and program unchanged, ASC timer reset to 0

Press reset button once*

Patent No. - Design: 424,953 Patent No. - Thermal Intrusion Barrier: 6,597,275 Patent Pending - SimpleSet[™] Target Programming Technology

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- 7-Day Programmable
- 2-Stage Heat Pump Manual Changeover
- SimpleSet[®] Target Programming
- Selectable °F or °C
- Relay Outputs
- · Ideally Suited for Residential
- Residential (New Construction/Replacement) Light Commercial

Installation, Operation & Application Guide

For more information on our complete range of American-made products - plus wiring diagrams, troubleshooting tips and more, visit us at www.icmcontrols.com

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LIAF020

2-Stage Heat/ 2-Stage Cool

Manual Changeover

Hardwired

SC3211L

Programmable Electronic Thermostat

m voltage drop in thermostat)

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Specifications

- Electrical rating: • 18-30 VAC
- 1 amp maximum per terminal
- 4 amp maximum total load
- Temperature control range: 45° F to 90° F (7° C to 32° C) Accuracy: $\pm 1^{\circ}$ F ($\pm 0.5^{\circ}$ C)
- System configurations: 2-stage heat, 2-stage cool, heat pump
- Terminations: R, C, Y1, Y2, W2, O, B, G, L, E

Important Safety Information

WARNING !: Always turn off power at the main power supply before installing, cleaning, or removing

- This thermostat is for 24 VAC applications only; do not use on voltages over 30 VAC
- All wiring must conform to local and national electrical and building codes
- Do not use air conditioning when the outdoor temperature is below 50 degrees; this can damage your A/C system
- and cause personal injuries
- Use this thermostat only as described in this manual

Package Contents/Tools Required

Package includes: SimpleComfort® SC3211L thermostat on base, thermostat cover, wiring labels, screws and wall anchors, Installation, Operation and Application Guide.

Tools required for installation: Drill with 3/16" bit, hammer, screwdriver

1

To Remove Existing Thermostat

ELECTRICAL SHOCK HAZARD – Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing

- 1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off
- 2. Remove cover of old thermostat. This should expose the wires.
- Label the existing wires with the enclosed wire labels before removing wires.
- 4 After labeling wires remove wires from wire terminals
- 5. Remove existing thermostat base from wall. 6. Refer to the following section for instructions on how to install this thermostat.

To Install Thermostat



ELECTRICAL SHOCK HAZARD - Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.

IMPORTANT: Thermostat installation must conform to local and national building and electrical codes and ordinances.

- * Note: Mount the thermostat about five feet above the floor. Do not mount the thermostat on an outside wall, in direct sunlight, behind a door, or in an area affected by a vent or duct.
- 1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit
- 2. To remove cover, insert and twist a coin or screwdriver in the slots on the top corner of the thermostat
- 3. Put thermostat base against the wall where you plan to mount it (Be sure wires will feed through the wire opening in the base of the thermostat
- 4. Mark the placement of the mounting holes.

2

- 5. Set thermostat base and cover away from working area.
- 6. Using a 3/16" drill bit, drill holes in the places you have marked for mounting.
- 7. Use a hammer to tap supplied anchors in mounting holes
- 8. Align thermostat base with mounting holes and feed the control wires through wire opening.
- 9 Use supplied screws to mount thermostat base to wall
- 10. Insert stripped, labeled wires in matching wire terminals. See "Wiring Diagrams" section of this manual (Pages 4-5).
- CAUTION!: Be sure exposed portion of wires does not touch other wires.
- 11. Gently tug wire to be sure of proper connection. Double check that each wire is connected to the proper terminal
- 12. Replace cover on thermostat by snapping it in place.
- 13. Turn on power to the system at the main service panel.
- 14. Test thermostat operation as described in "Testing the Thermostat" (Page 12).







Operating Modes

OFF Mode

- In this mode, the thermostat will not turn on the heating or cooling devices (manual fan can operate)
- · OFF mode is also used to access setup and the program schedule

Cool Mode

- In this mode, the thermostat controls the cooling system • Press the **PROG** button to enter and exit **Program Cool** mode
- In Program Cool (PROG solid on display) mode, the thermostat will follow the program schedule that is stored in memory

Heat Mode

- · In this mode, the thermostat controls the heating system
- Press the PROG button to enter or exit the Program Heat mode
 In Program Heat (PROG solid on display) mode, the thermostat will follow the program schedule that is stored in

Emergency Heat Mode

- In this mode, the thermostat controls the heating system and the heat pump is disabled
- Press the PROG button to enter or exit the Program Emergency Heat mode
 In Program Emergency Heat (PROG solid on display) mode, the thermostat will follow the program schedule that is stored in memory

Hold Functions

When in **Programmable Cool**, **Programmable Heat or Programmable Emergency Heat**, you can lock in the present settings indefinitely by pressing the **Hold** button once (PROG flashes). Press **Hold** button again to exit **Hold** mode (PROG solid). For a temporary hold period, raise or lower set temperature to desired set temperature. The thermostat will automatically return to programmed set temperature after 2 hours.

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Setting the Time and Day of the Week

The time and day of the week must be set for your program schedule to operate correctly.

- 1. Slide the system switch to the OFF position. You are in the OFF mode
- 2. Press and hold the PROG button (left) and HOLD (right) buttons (simultaneously) in for 6 seconds.
- 3. Time displays (hour flashing).
- Press the up or down button to adjust the hour
- 4. Press the HOLD (right) button once to select minutes (minutes flashing). Press the up or down button to adjust the minutes.



** Note: At any time, press the PROG (left) button to return to the previous screen or press the HOLD (right) button to advance to the next screen.

Press the **PROG** button and **HOLD** button (simultaneously) in for 2 seconds to lock values into memory and return to the OFF mode or press the HOLD (right) button once to enter programming

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Program Overview

11

^{COOL}

12:00

12:00

12:00

The SC3211L programmable thermostat has four periods (MORN, DAY, EVE, NITE) that are customizable for each day of the week. Each period will have a start time, heat temperature, and cool temperature. The SC3211L monitors the day and time, while maintaining the specific conditions you have chosen for each period in your program.

Setting the program schedule:

- 1. Slide the system switch to the center position. You are in OFF mode.
- 2. Press and hold the **PROG** and **HOLD** buttons (pressed simultaneously) for 6 seconds.
- 3. Press the HOLD (right) button 3 times.
- 4. Day 1-7 are blinking

From this screen you have 2 options:

1. Press the HOLD (right) button to begin programming all 7 days at one time, or

- 2. Press the up button to see the other programming options.
- ** Note: The days of the week shown on the display will be programmed simultaneously. The screens are listed below

Screen 1	1-7	SUN	MON	TUE	WED	THU	FRI	SAT
Screen 2	1-5		MON	TUE	WED	THU	FRI	
Screen 3	01		MON					
Screen 4	02			TUE				
Screen 5	03				WED			
Screen 6	04					THU		
Screen 7	05						FRI	
Screen 8	6-7	SUN						SAT
Screen 9	06							SAT
Screen 10	07	SUN						



PROG HOLD

12:00 2:00

01

CTODAY