

INSTALLER SYSTEM TEST

NOTE: Use the Installer System Test to check the thermostat configuration and operation. Refer to table 1 for a list of the available System Tests.

To enter System Test press and hold the increase ▲, and decrease ▼ keys at the same time. All segments of the display appear for approximately 3 seconds.

Table 1. System Test Descriptions.	
Test Number	System Test Description
10 to 19	Heating equipment can be turned on and off.
20 to 29	Emergency heat (Q7300C,D only) equipment can be turned on and off.
30 to 39	Cooling equipment can be turned on and off.
40 to 49	Fan equipment can be turned on and off.
60 0 to 19	Keyboard keys test.
71	Production Date Code.
72	Software I.D. Code.
73	Software Revision.
74	EEPROM I.D.
75	Subbase I.D. Code (T7300 Only).

T7100

The first number to appear in System Test is 00. See Fig. 5 and 6.

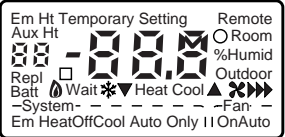


Fig. 5.



Fig. 6.

T7200/T7300

The first number to appear in System Test is 10. See Fig. 7 and 8.

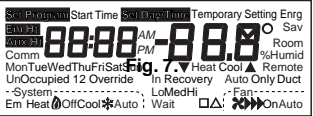


Fig. 7.

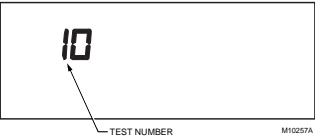


Fig. 8.

T7100 SYSTEM TEST

Key to Press	Test Number	Description
Heating Equipment System Test		
i	10	Enter heating equipment system test.
Δ	11	Stage-one heat turns on. When Installer Setup number 01 is 01 or number 02 is 01, the system fan is also energized.
Δ	12	Stage-two heat turns on. Stage-one heat and system fan remain on.
Δ	13	Stage-three heat turns on (heat pump configuration). Stage-one and stage-two heat remain on.
▽	12	Stage-three heat turns off.
▽	11	Stage-two heat turns off.
▽	10	Stage-one heat and system fan turn off.
Emergency Heating Equipment System Test (with select models of Q7100C Subbase)		
i	20	Change from heating to emergency heating equipment system test.
Δ	21	Emergency heat turns on.
▽	20	Emergency heat turns off.
Cooling Equipment System Test		
i	30	Change from heating or emergency heating to cooling equipment system test.
Δ	31	Stage-one cooling and system fan turn on.
Δ	32	Stage-two cool comes on. Stage-one cool and system fan remain on.
▽	31	Stage-two cool turns off.
▽	30	Stage-one cool and system fan turn off.
Fan Equipment System Test		
i	40	Change from cooling to fan equipment system test.
Δ	41	Fan turns on.
▽	40	Fan turns off.
Key Operation System Test		
IMPORTANT		
Test numbers will only be displayed when the system is configured for the selected function. EXAMPLE: Numbers 60, 61 and 62 are the only numbers that will be displayed when a system is configured for heat only.		
SYSTEM KEY SYSTEM TEST		
i	60	Displays 2.
Δ	60	Displays 4.

T7100 System Test (continued)

Key to Press	Test Number	Description
▽	60	Displays 3.
Override	60	Displays 5.
System ^a	60	Displays 0.
Fan ^a	60	Displays 1.
OVERRIDE KEY SYSTEM TEST		
Override	66	Heating temperature override test number is displayed. NOTE: Enter Installer Setup number 27 to reconfigure heating/cooling temperature override (if required).
Override	67	Cooling temperature override test number is displayed. NOTE: Enter Installer Setup number 27 to reconfigure heating/cooling temperature override (if required).
FAN KEY SYSTEM TEST		
Fan	68	Fan on test number is displayed.
Fan	69	Fan off test number is displayed.

^a Available on select models.

T7200/T7300 SYSTEM TEST

Key to Press	Test Number	Description
Heating Equipment System Test		
Heat/Cool Settings	10	Discharge Air Temperature.
Δ	11	Stage-one heat turns on. The system fan is also energized.
Δ	12	Stage-two heat turns on. Stage-one heat and system fan remain on.
Δ	13	Stage-three heat turns on. Stage-one and stage-two heat with the system fan are on.
▽	12	Stage-three heat turns off.
▽	11	Stage-two heat turns off.
▽	10	Stage-one heat and system fan turn off.
Emergency Heating Equipment System Test (Q7300C,D only)		
Heat/Cool Settings	20	Discharge Air Temperature. Emergency heat on.
Δ	21	Highest stage heat and fan turn on.
▽	20	Highest stage heat and fan turn off.
Cooling Equipment System Test		
Heat/Cool Settings	30	Discharge Air Temperature.
Δ	31	Stage-one cooling and system fan turn on.
Δ	32	Stage-two cool comes on. Stage-one cool and system fan remain on.
Δ	33	Stage-three cool turns on (Q7300G only). Stage-one and stage-two cool with system fan remain on.

Key to Press	Test Number	Description
▽	32	Stage-three cool turns off.
▽	31	Stage-two cool turns off.
▽	30	Stage-one cool and system fan turn off.
Fan Equipment System Test		
Heat/Cool Settings	40	Change from cooling to fan equipment system test.
Δ	41	Fan turns on.
▽	40	Fan turns off.
Key Operation System Test		
Heat/Cool Settings	60 2	Change from fan to key operation system test.
Unoccupied Temp	60 0	Unoccupied Temp test number is displayed.
Occupied Temp	60 1	Occupied Temp test number is displayed.
Δ	60 3	Increase test number is displayed.
▽	60 5	Decrease test number is displayed.
Clear Start Time	60 7	Clear Start Time test number is displayed.
Day	60 8	Day test number is displayed.
Copy	60 9	Copy test number is displayed.
Unoccupied Start Time	60 10	Unoccupied Start Time test number is displayed.
System (select models)	60 11	System test number is displayed.
Fan (select models)	60 12	Fan test number is displayed.
Set Current Day/Time	60 14	Set Current Day/Time test number is displayed.
Run Program	60 15	Run Program test number is displayed.
Temporary Occupied	60 16	Temporary Occupied test number is displayed.
Occupied Start Time	60 17	Occupied Start Time test number is displayed.
Continuous Unoccupied	60 19	Continuous Unoccupied test number is displayed.

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T7100/T7200/T7300
SERIES 2000

INSTALLER SETUP AND SYSTEM TEST

Reference Card

IMPORTANT

The minimum off times for compressors is bypassed during the Installer System Test. Equipment damage can occur if compressor is cycled too quickly.

Installer Setup Selections may vary by O.S. Number and by thermostat and subbase combination.

T7100

Abort Installer Setup by pressing the Information i key.

Abort System Test by pressing and holding increase Δ and decrease ▽ keys simultaneously.




T7200/T7300

Abort Installer Setup and System Test anytime by pressing the

key.



NOTE: For most applications, the thermostat default settings do not need to be changed

To enter the Installer Setup for the T7100, press and hold the Information , increase , and decrease  keys simultaneously. Hold all three keys until the first number is displayed. All display segments appear for approximately 3 seconds before the number is displayed. See Fig. 1 and 2 below.



To enter the Installer Setup for the T7200/T7300, press and hold the Heat/Cool, increase Δ , and decrease ∇ keys simultaneously. Hold all three keys until the first number is displayed. All display segments appear for approximately 3 seconds before the number is displayed. See Fig. 3 and 4 below.



Thermostat Installer Setup Options.

					Installer Setup Number. To change: T7100— Press 1 T7200/T7300— Press 1 Unoccupied Temp	Select	T7200	T7300	Temp	Display	Description	Display	T7100— Δ Scrolls Forward ▽ Scrolls Backward T7200/T7300— Unoccupied Temp Key Scrolls Forward, Heat/Cool Settings Key Scrolls Backward		Display	Description	Other Choices (Press Δ or ▽ key to change)
T7100	F				1	Application.			0	0	Conventional equipment application (Q7100A).	1	Heat pump application (Q7100C.D) fan operation is automatically selected so go to number 03).		1	Heat pump application (Q7100C.D) fan operation is automatically selected so go to number 03).	
	D,F	D		D,F	2	Fan operation.			0	0	Conventional applications where equipment controls fan operation in heating.	1	Electric heat applications where thermostat controls fan operation in heating.		1	Electric heat applications where thermostat controls fan operation in heating.	
	ALL			ALL	3	Output stages of heating.			Depends on subbase		Stages of heat.	0, 1, 2, or 3	0—No heating. 1—One stage of heat. 2—Two stages of heat. 3—Three stages of heat.		0, 1, 2, or 3	0—No heating. 1—One stage of heat. 2—Two stages of heat. 3—Three stages of heat.	
	ALL			ALL	4	Heating cycle rate.			Depends on model		Stage 1—4 cph. Stage 2—4 cph. Stage 3—4 cph.	3, 4, 6, 8 or 9	3—3 cph used for hot water systems or high efficiency furnaces. 4—4 cph used for heat pumps.		3, 4, 6, 8 or 9	3—3 cph used for hot water systems or high efficiency furnaces. 4—4 cph used for heat pumps.	
	E,F			E,F	7						Emergency heat relay is on continuously. Highest stage of heat cycles at 4 cph (Q7300C or D only).		6—6 cph used for conventional systems. 8—8 cph used for conventional systems and heat pumps. 9—9 cph used for electric heat systems.			6—6 cph used for conventional systems. 8—8 cph used for conventional systems and heat pumps. 9—9 cph used for electric heat systems.	
	F			ALL	8	Output stages of cooling.			Depends on subbase		Stages of cooling.	0, 1, 2 or 3	0—No cooling. 1—One stage of cool. 2—Two stages of cool. 3—Three stages of cool.		0, 1, 2 or 3	0—No cooling. 1—One stage of cool. 2—Two stages of cool. 3—Three stages of cool.	
	F	ALL	F	F	9	Cooling cycle rate.			4	4	Stage 1—4 cph. Stage 2—4 cph. Stage 3—4 cph.	3	3—3 cph.		3	3—3 cph.	
	N/A				10				4		System selection.	0, 1 or 2	0—System setting key is operational. 1—Auto setting is disabled. 2—Auto only setting.		0, 1 or 2	0—System setting key is operational. 1—Auto setting is disabled. 2—Auto only setting.	
	ALL				12	System setting adjustment. (models with System key).			Depends on model		System selection.	0, 1 or 2	0—System setting key is operational. 1—Auto setting is disabled. 2—Auto only setting.		0, 1 or 2	0—System setting key is operational. 1—Auto setting is disabled. 2—Auto only setting.	
	ALL				12	System setting adjustment.			0	0	System setting key is operational.	1 or 2	1—Manual. 2—Auto only.		1 or 2	1—Manual. 2—Auto only.	
	ALL	DE	ALL		14	Degree temperature display.			0	0	Temperature is displayed in °F.	1	Temperature is not displayed in °C.		1	Temperature is not displayed in °C.	
	F		F	F	15	Displaying temperature.			0	0	Temperature is displayed.	1	Temperature is not displayed.		1	Temperature is not displayed.	
				ALL	16	Clock format.			0	0	12-hour clock format.	1	24-hour clock format.		1	24-hour clock format.	
	DE	ALL	ALL	ALL	17	Intelligent Fan™ operation.			2	2	Fan operates continuously in Occupied and Recovery mode. Fan operates with call for heating or cooling in Unoccupied mode.	0 or 1	0—Fan only operates with calls for heating or cooling in Occupied and Unoccupied modes. 1—Fan operates continuously in Occupied mode. Fan operates with calls for heating or cooling in Unoccupied mode.		0 or 1	0—Fan only operates with calls for heating or cooling in Occupied and Unoccupied modes. 1—Fan operates continuously in Occupied mode. Fan operates with calls for heating or cooling in Unoccupied mode.	
				ALL	18	Auxiliary contact operation.			0	0	0—Time-of-Day contacts.	1	1—Economizer contacts.		1	1—Economizer contacts.	
	F	F	F	F	19	Extended fan operation in heating.			0	0	No extended fan operation after the call for heat ends.	1	Fan operation is extended 90 seconds after the call for heat ends.		1	Fan operation is extended 90 seconds after the call for heat ends.	
	F		F	F	20	Extended fan operation in cooling.			0	0	No extended fan operation after the call for cool ends.	1	Fan operation is extended 90 seconds after the call for cool ends.		1	Fan operation is extended 90 seconds after the call for cool ends.	
	F	ALL	ALL	ALL	21	Fan key adjustment (models with Fan key only).			0	0	Fan setting key is operational.	1	Fan setting key is Auto only.		1	Fan setting key is Auto only.	
	F			ALL	22	Remote sensing.			0	0	Remote sensing not activated.	1	Remote sensing activated.		1	Remote sensing activated.	
	F		F	F	23	Temperature averaging network.			0	0	Temperature averaging disabled.	1	Temperature averaging between local sensor and remote sensor(s) activated.		1	Temperature averaging between local sensor and remote sensor(s) activated.	
	F				25	Keypad lockout level (key-pad lockout is enabled and disabled by DIP switch 1 on back of thermostat).			0	0	No lockout.	1 or 2	1—View setpoints only. 2—Lockout all keys.		1 or 2	1—View setpoints only. 2—Lockout all keys.	
	ALL	ALL	ALL	ALL	25				0	0	No lockout.	1 or 2	1—Lockout all keys on thermostat except system and fan settings, temporary setpoint, clock and day adjustments. 2—Lockout all keys except set Current Day/Time, increase Δ and decrease ▽ keys. 3—Lockout all keys except TempOnly/ Occupied, set Current Day/Time, (for clock, day adjustments).		1 or 2	1—Lockout all keys on thermostat except system and fan settings, temporary setpoint, clock and day adjustments. 2—Lockout all keys except set Current Day/Time, increase Δ and decrease ▽ keys. 3—Lockout all keys except TempOnly/ Occupied, set Current Day/Time, (for clock, day adjustments).	
				ALL	26	Duration of temporary override.			3	3	3—Three hour override.	1, 8 or 12	1—One hour override. 8—Eight hour override. 12—Twelve hour override.		1, 8 or 12	1—One hour override. 8—Eight hour override. 12—Twelve hour override.	
ALL					27	Heating/cooling override.			0	0	No temperature change when override key pressed.	1 thru 15	*If the temperature setting is changed when the override key is pressed, TempOnly is displayed.		1 thru 15	*If the temperature setting is changed when the override key is pressed, TempOnly is displayed.	
		E			29	O/B operation.			0	0	0—Energize in cool mode.	1	1—Energize in heat mode.		1	1—Energize in heat mode.	
F	F	F	F	F	30	Deadband.			2	2	Heating and cooling setpoints can be set no closer than 2°F (1.1°C).	3 thru 10	Heating and cooling setpoints can be set no closer than the chosen value: 3—3°F (1.5°C) 4—4°F (2°C) 5—5°F (2.5°C) 6—6°F (3°C) 7—7°F (3.5°C) 8—8°F (4°C) 9—9°F (4.5°C) 10—10°F (5°C)		3 thru 10	Heating and cooling setpoints can be set no closer than the chosen value: 3—3°F (1.5°C) 4—4°F (2°C) 5—5°F (2.5°C) 6—6°F (3°C) 7—7°F (3.5°C) 8—8°F (4°C) 9—9°F (4.5°C) 10—10°F (5°C)	
F			F	F	31	Interstage control point.			0	0	Disabled.	1 thru 12	Temperature has to change more than the chosen value before the system calls for the next stage. (Example: 68°F (20°C) is the heat setpoint, 2°F (1°C) is the interstage setting, temperature is 65.5°F (18.5°C), the second stage turns on, brings the temperature to 66°F (19°C) and turns off. The heat pump continues to run until the setpoint is met.)		1 thru 12	Temperature has to change more than the chosen value before the system calls for the next stage. (Example: 68°F (20°C) is the heat setpoint, 2°F (1°C) is the interstage setting, temperature is 65.5°F (18.5°C), the second stage turns on, brings the temperature to 66°F (19°C) and turns off. The heat pump continues to run until the setpoint is met.)	
F				F	32	Minimum on-time.			2	2	2-minute minimum on-time for heating and cooling.	0 or 1	No minimum on-time or 1-minute minimum on-time for heating and cooling.		0 or 1	No minimum on-time or 1-minute minimum on-time for heating and cooling.	
ALL	DE	ALL	ALL	ALL	33	Minimum off-time for the compressor.			4	4	4-minute minimum off-time for the compressor.	0, 1, 2, 3 or 5	Minimum number of minutes (0 thru 5) the compressor will be off between calls for the compressor.		0, 1, 2, 3 or 5	Minimum number of minutes (0 thru 5) the compressor will be off between calls for the compressor.	
F		F	F	F	34	Temperature range stops in heating.			90	90	Highest setpoint for heating.	40 to 89	Temperature range (1°F [0.6°C] increments) for heating setpoint.		40 to 89	Temperature range (1°F [0.6°C] increments) for heating setpoint.	
F		F	F	F	35	Temperature range stops in cooling.			45	45	Lowest setpoint for cooling.	46 to 99	Temperature range (1°F [0.6°C] increments) for cooling setpoint.		46 to 99	Temperature range (1°F [0.6°C] increments) for cooling setpoint.	
	DE			ALL	37	Temperature display adjustment.			0	0	No difference in displayed temperature and actual room temperature.	1 thru 6	1—Display adjusts to 1°F (0.6°C) higher than actual room temperature 2—Display adjusts to 2°F (1.2°C) higher than actual room temperature 3—Display adjusts to 3°F (1.7°C) higher than actual room temperature 4—Display adjusts to 4°F (2.2°C) higher than actual room temperature 5—Display adjusts to 5°F (2.8°C) higher than actual room temperature 6—Display adjusts to 6°F (3.3°C) higher than actual room temperature		1 thru 6	1—Display adjusts to 1°F (0.6°C) higher than actual room temperature 2—Display adjusts to 2°F (1.2°C) higher than actual room temperature 3—Display adjusts to 3°F (1.7°C) higher than actual room temperature 4—Display adjusts to 4°F (2.2°C) higher than actual room temperature 5—Display adjusts to 5°F (2.8°C) higher than actual room temperature 6—Display adjusts to 6°F (3.3°C) higher than actual room temperature	
ALL					37				0	0	No difference in displayed temperature and actual room temperature.	–3 to 3	1—Display adjusts to 1°F (0.6°C) higher than actual room temperature. 2—Display adjusts to 2°F (1.2°C) higher than actual room temperature. 3—Display adjusts to 3°F (1.7°C) higher than actual room temperature. –1—Display adjusts to 1°F (0.6°C) lower than actual room temperature. –2—Display adjusts to 2°F (1.2°C) lower than actual room temperature. –3—Display adjusts to 3°F (1.7°C) lower than actual room temperature.		–3 to 3	1—Display adjusts to 1°F (0.6°C) higher than actual room temperature. 2—Display adjusts to 2°F (1.2°C) higher than actual room temperature. 3—Display adjusts to 3°F (1.7°C) higher than actual room temperature. –1—Display adjusts to 1°F (0.6°C) lower than actual room temperature. –2—Display adjusts to 2°F (1.2°C) lower than actual room temperature. –3—Display adjusts to 3°F (1.7°C) lower than actual room temperature.	
F	DE	ALL	ALL	ALL	38	Minimum off-times in heating.			4	4	4—4-minute minimum off-time.	0, 1, 2, 3, or 5	Minimum number of minutes (0 thru 5) the heating equipment will be off between calls for heat.		0, 1, 2, 3, or 5	Minimum number of minutes (0 thru 5) the heating equipment will be off between calls for heat.	
	DE	ALL	ALL	ALL	40	Installer Setup lockout (key-pad lockout is enabled and disabled by DIP switch 1 on back of thermostat).			0	0	0—No Installer Setup lockout.	1	1—Installer Setup lockout activated.		1	1—Installer Setup lockout activated.	