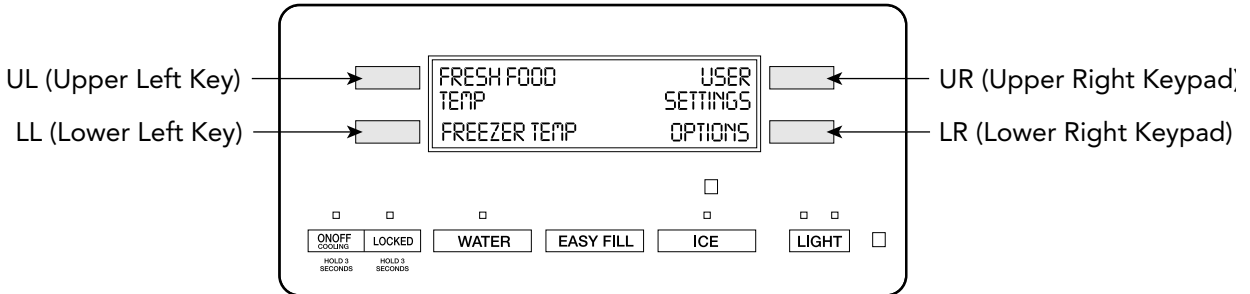


Main Control Menu

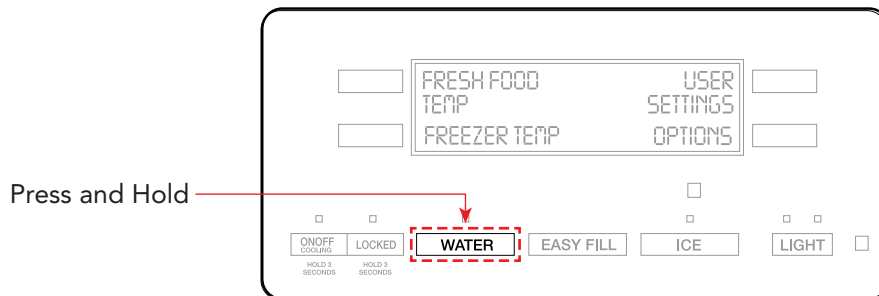
To access the main control menu, press any of the four touch pads located on either side of the display. Then, touch the pad next to the desired option or user setting to access the various features.



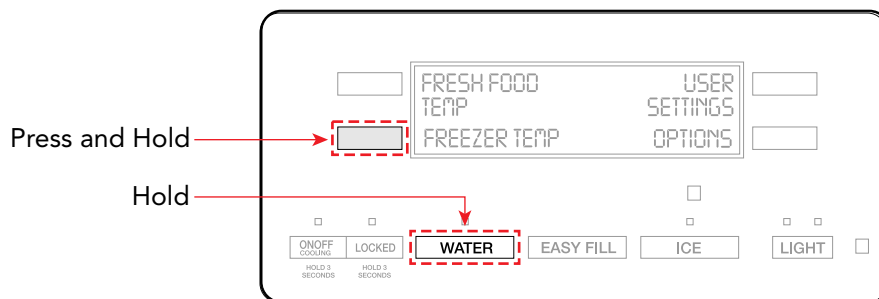
Note: Press only the touch pads next to your selection on the display screen, not the screen itself.

Entering Programming Mode

1. Press and hold the "WATER" button.

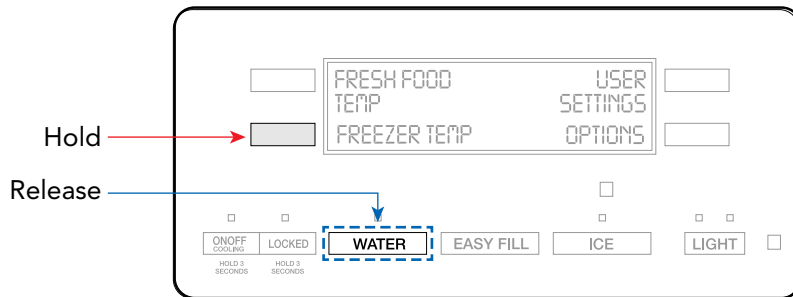


2. Then press and hold the "LL" button. Both buttons are now being held in.

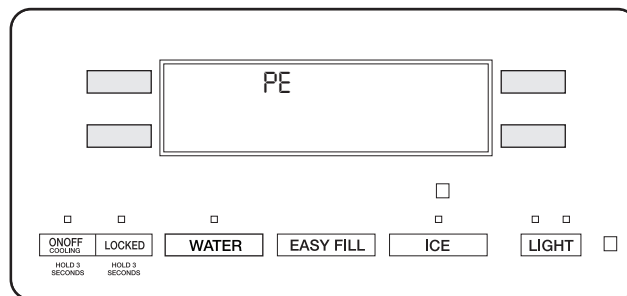


Entering Programming Mode (continued)

3. While still holding the LL button, release the "WATER" button and wait 3 seconds.

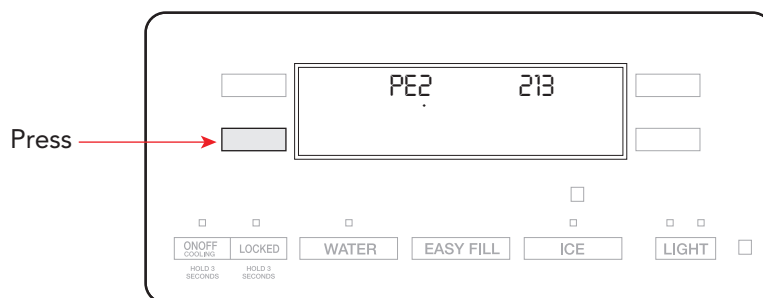


4. When entered successfully, the letter PE will be displayed on the screen.



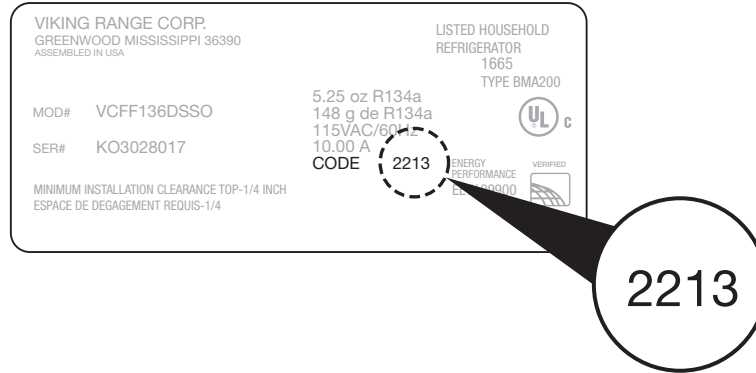
5. Entry is confirmed by pressing the "LL" button. There will be a number next to the PE and then on the right side of the display will be a three digit number. These four numbers are the current programming code for this unit. The example below shows code 2213.

Note: There is a DOT under the first number. This will be explained later

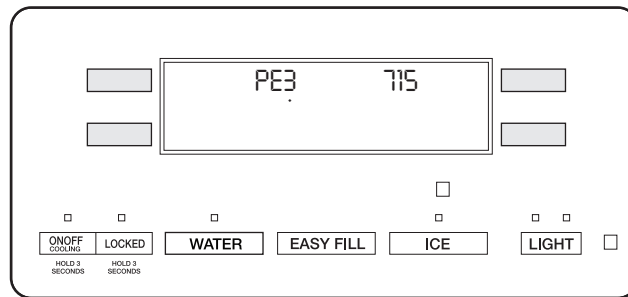


Entering Programming Mode (continued)

6. This code can be verified with the Program CODE printed on the unit serial plate as shown in the example below. The code in the display and the code on the data plate match.

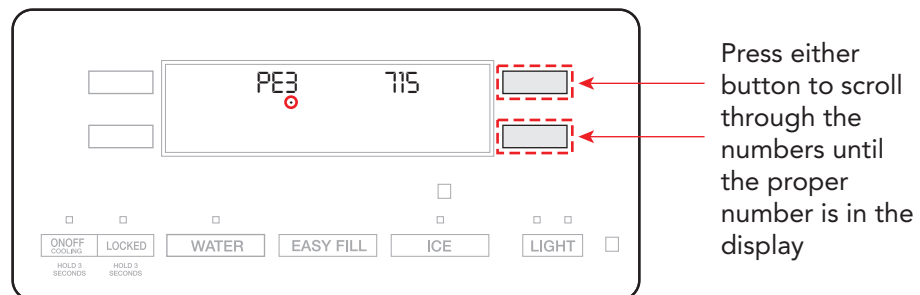


7. If the code does NOT match, you must enter the proper code into the controller. Below is an example of an improperly programmed controller. The code is showing 3715 which does not match the data plate above.



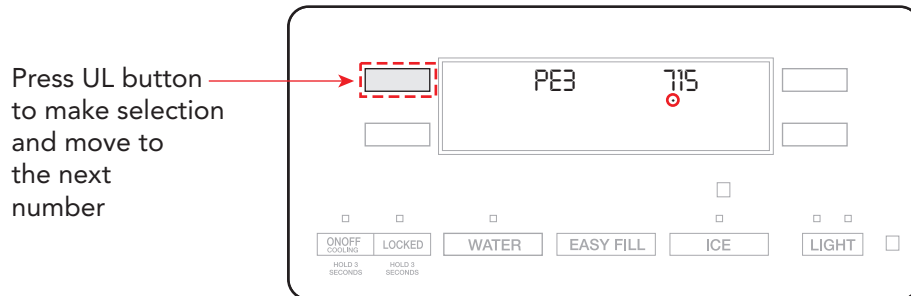
Incorrect code shown above

8. As mentioned before, the first digit has a dot below it. This indicates that the First digit is in programming mode. Using either the UR or LR buttons, this digit can be changed from 0-9.

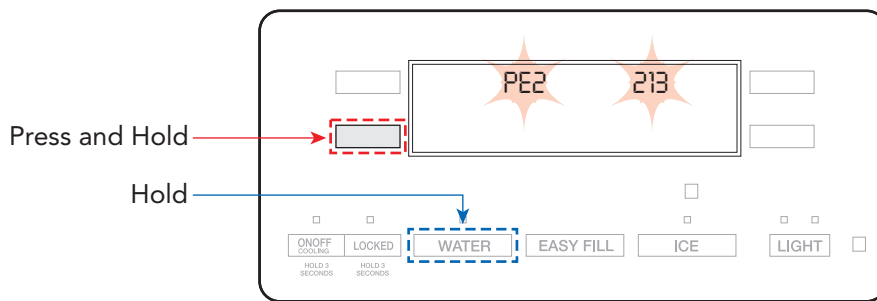


Entering Programming Mode (continued)

9. Once the proper first digit is in the display, depress the "UL" button to lock in the selection and move to the next digit. The example below shows the first number has been changed from "3" to number "2" and with the "UL" button depressed, the dot is now under the second digit "7".



10. Continue to change the three remaining digits until the code on the display matches the code on the data plate. When you are finished, press and hold the "LL" button until the program code begins flashing. This indicates that the changes have been saved.



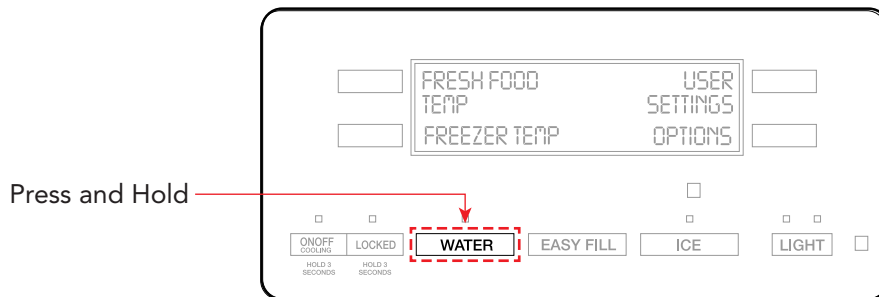
11. To EXIT the programming mode, press and hold the "WATER" button for three seconds. If not depressed, it will automatically exit after 4 minutes..

Defrost Operation

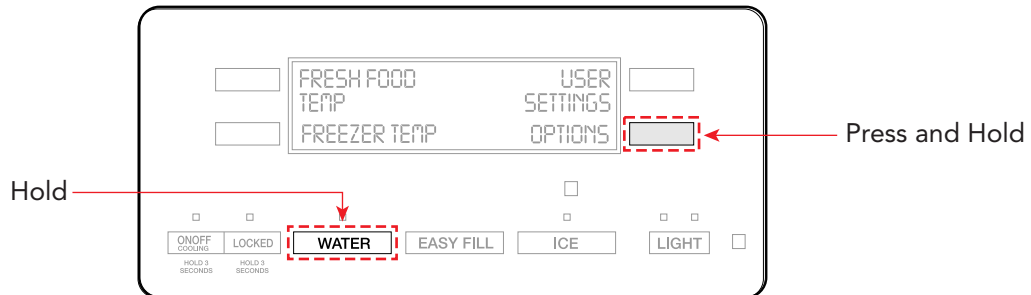
The Control Board adapts the compressor run time between defrosts to achieve optimum defrost intervals by monitoring the length of time the defrost heater is on. After initial power up, defrost interval is 4 hours compressor run time. Defrost occurs immediately after the 4 hours.

Entering Forced Defrost Mode

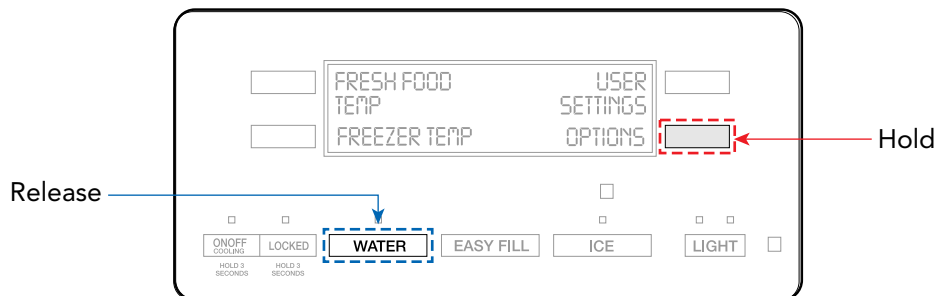
1. Press and hold the "WATER" button.



2. Then press and hold the "LR" button. Both buttons are now being held in.

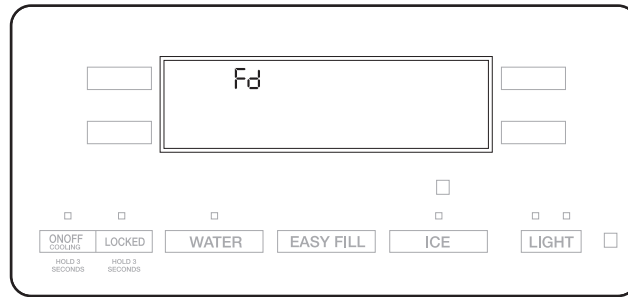


3. While still holding the LR button, release the "WATER" button and wait 3 seconds.

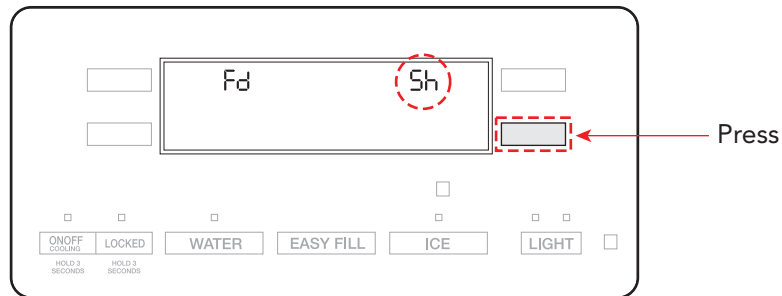


Entering Forced Defrost Mode (continued)

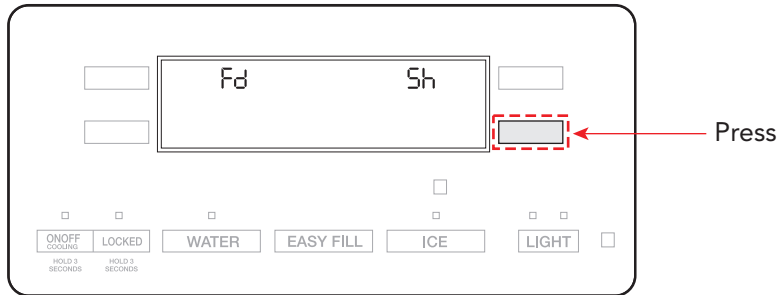
4. When entered successfully, Fd will be displayed on the left side of the screen.



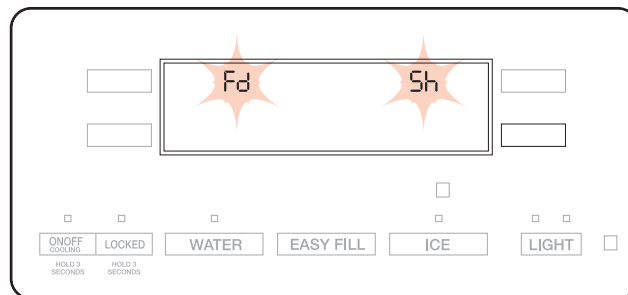
5. Press the "LR" button again. Sh appears in right side of the display.



6. Press "LR" again to force defrost.

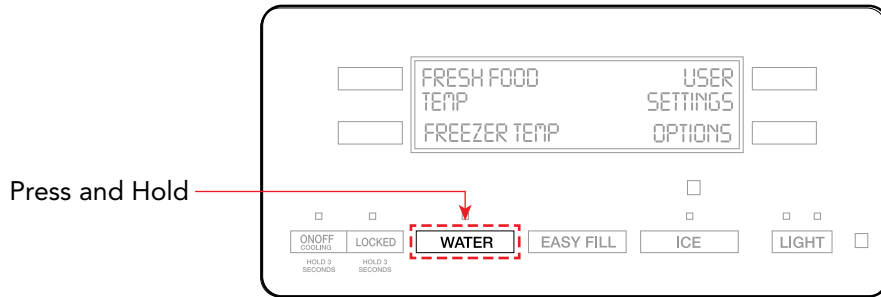


7. Fd and Sh will flash in display indicating unit is in defrost.

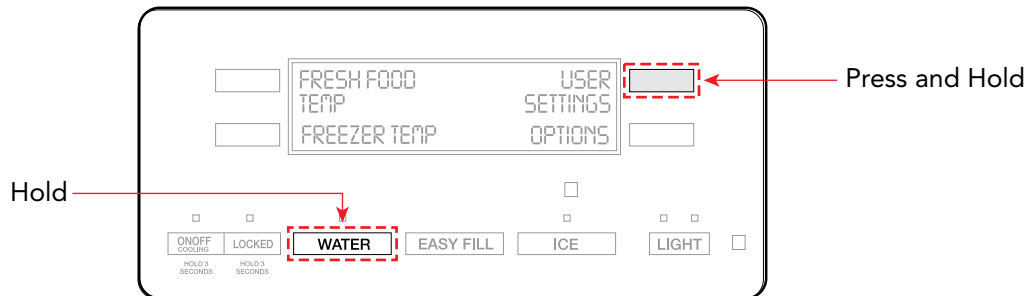


Entering Service Test Mode

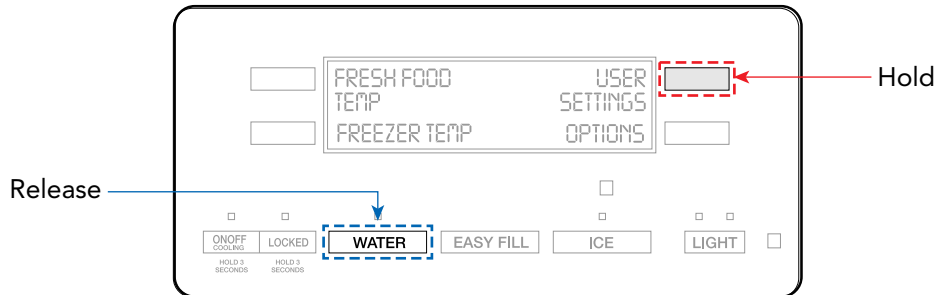
1. Press and hold the "WATER" button.



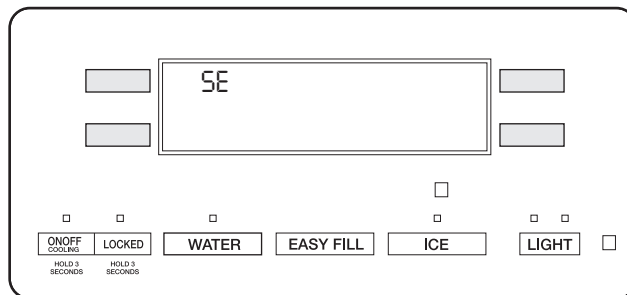
2. Then press and hold the "UR" button. Both buttons are now being held in.



3. While still holding the UR button, release the "WATER" button and wait 3 seconds.

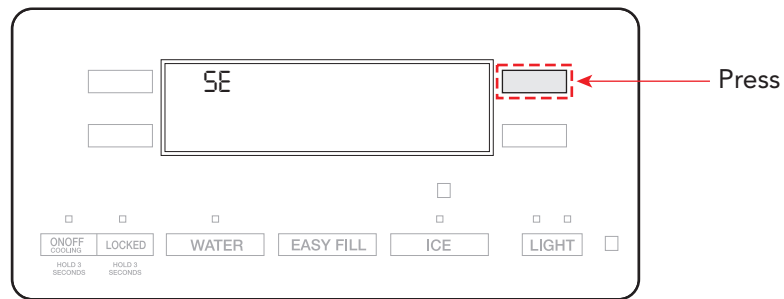


4. The display will show SE confirming entry in the Service Mode.

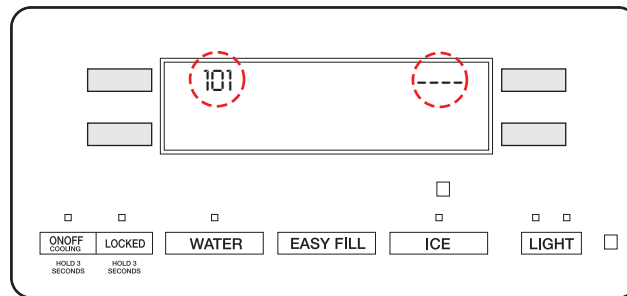


Entering Service Test Mode (continued)

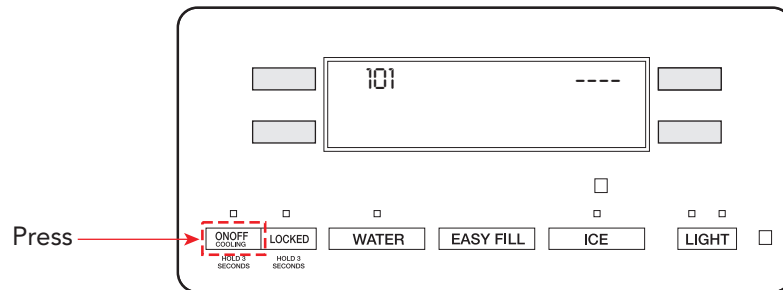
5. Press the "UR" button again to confirm entry in the service mode.



6. Display will show 101 in left display and numeric or dashes in right display.



7. To exit service test mode, open and close refrigerator door or hold door alarm for 3 seconds.

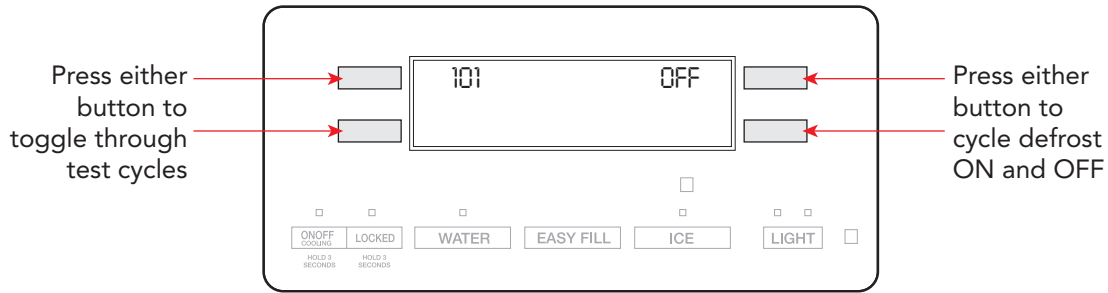


Service Tests

When the test mode has been entered, the first test will be for the defrost test.

101 Defrost Heater and Defrost Circuit

Press either the UR or LR keypads to energize or de-energize the Defrost circuit. The display will read **OFF** when de-energized as shown below. **OP** when energized with open defrost thermostat and **CL** when energized with closed defrost thermostat.



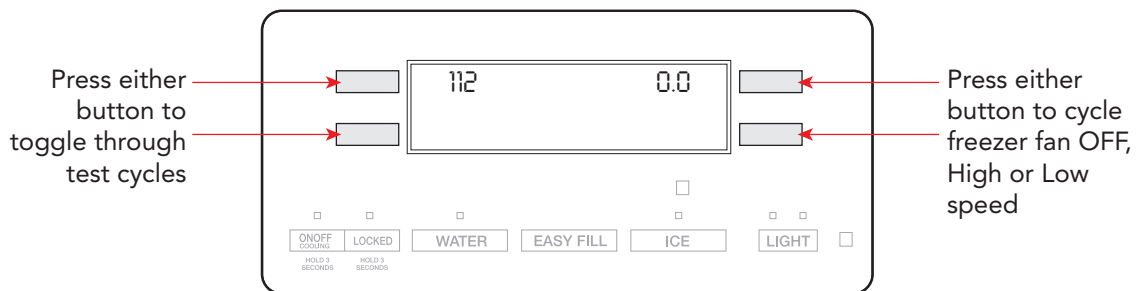
102 Compressor/Condenser Fan

Press the "UR" keypad or "LR" keypad to toggle Compressor/Condenser fan **On** and **Off**.



112 Freezer Fan

Press the "UR" keypad or "LR" keypad to toggle Freezer Fan OFF, High or Low speed.

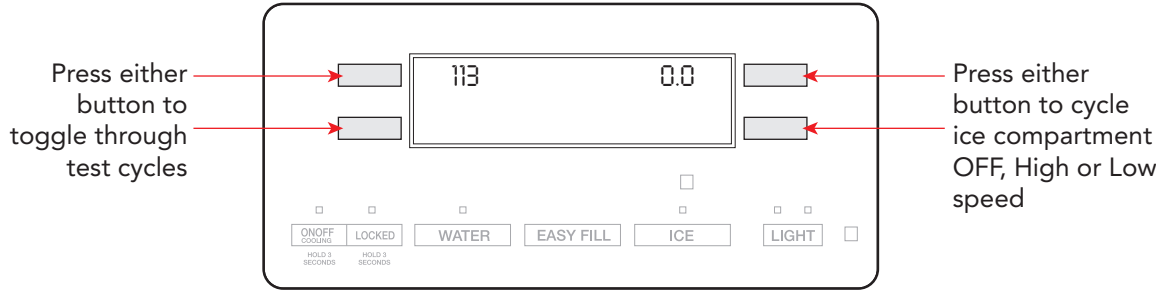


Note: Display will show 11.0-14.0 volts for HIGH and 7.75-8.25 volts for LOW. When off 0.0 will be displayed.

Service Tests (continued)

113 Ice Compartment Fan

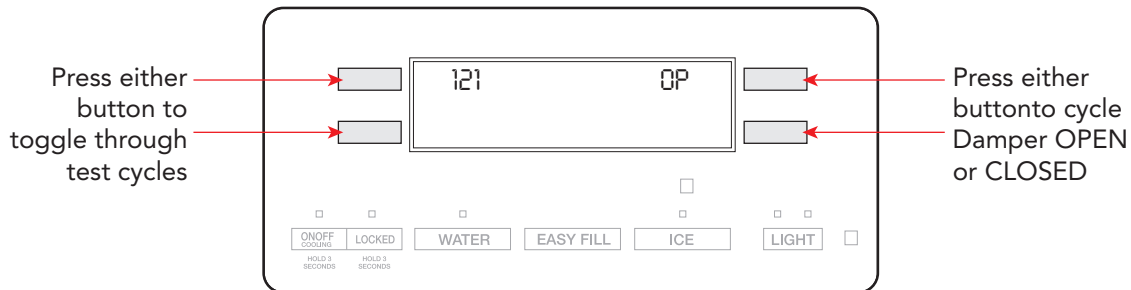
Press the "UR" keypad or "LR" keypad to toggle ice compartment fan OFF, high or low speed.



Note: Display will show 11.0-14.0 volts for HIGH and 7.75-8.25 volts for LOW. When off 0.0 will be displayed.

121 Damper Operation

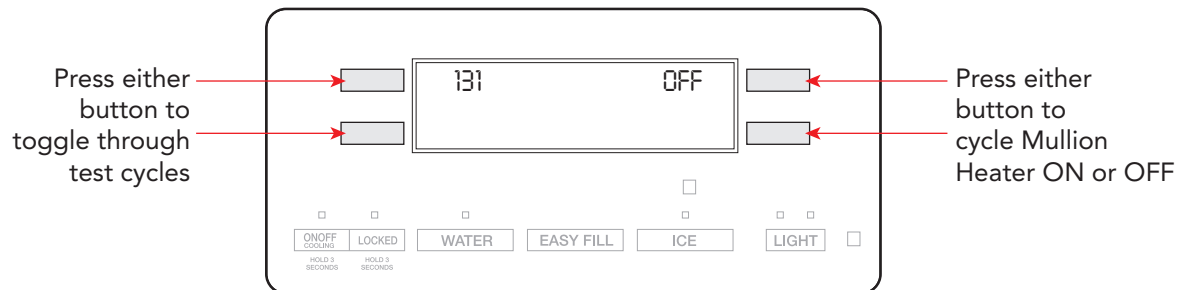
Press the "UR" keypad or "LR" keypad to toggle Damper OP (open) or CL (Closed).



Note: When damper is opening or closing it will display—if damper state is unknown. It can also show DP if damper is moving when initially entering service mode.

131 Mullion Heater

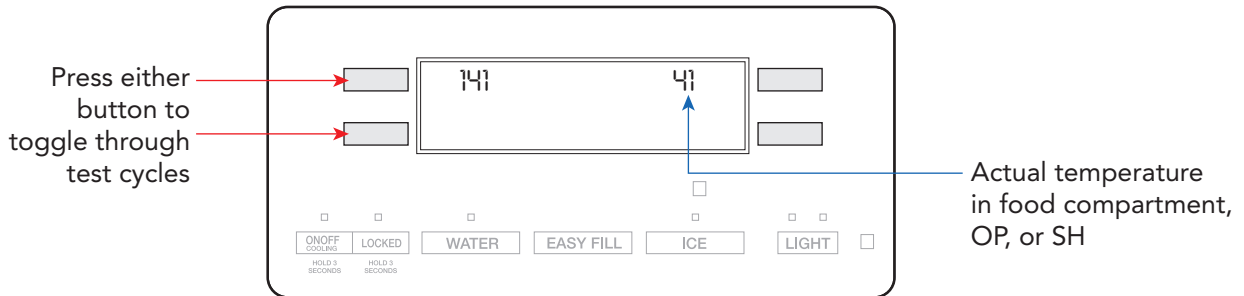
Press the "UR" keypad or "LR" keypad to toggle Mullion Heater Off and On.



Service Tests (continued)

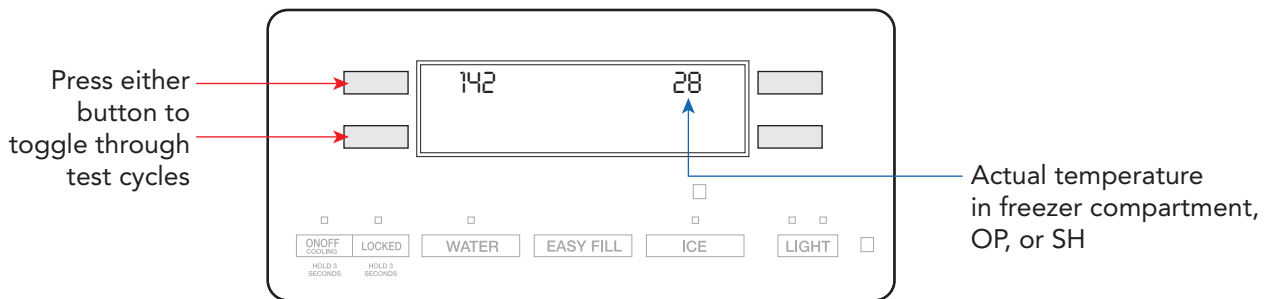
141 Fresh Food Thermistor

This test will check the temperature from the fresh food thermistor. You will see the actual temperature, **OP** for open thermistor, or **SH** for shorted thermistor.



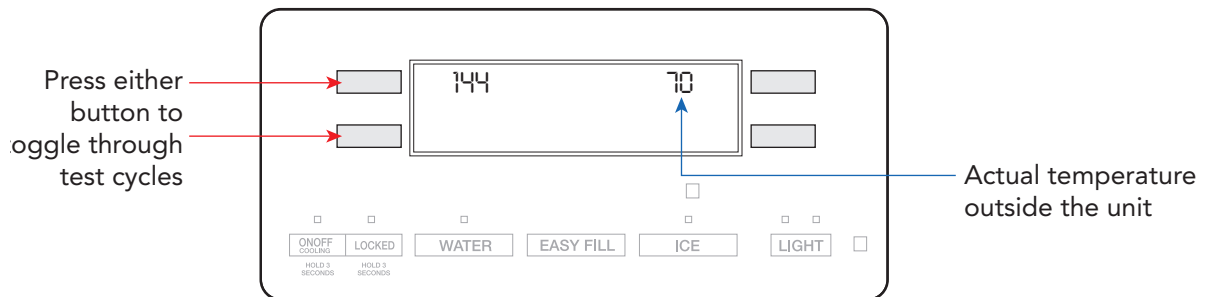
142 Freezer Thermistor

This test will check the temperature from the freezer thermistor. You will see the actual temperature, **OP** for open thermistor, or **SH** for shorted thermistor.



144 Ambient Thermistor

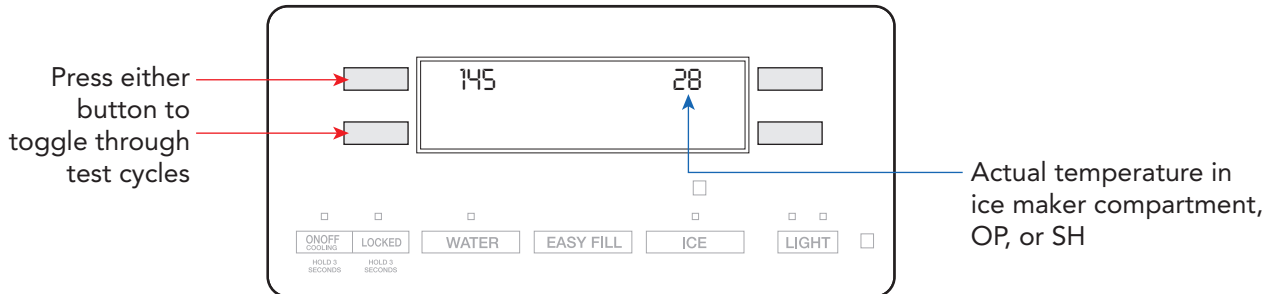
This test will check the temperature from the outside temperature thermistor. You will see the actual temperature, **OP** open thermistor, or **SH** shorted thermistor.



Service Tests (continued)

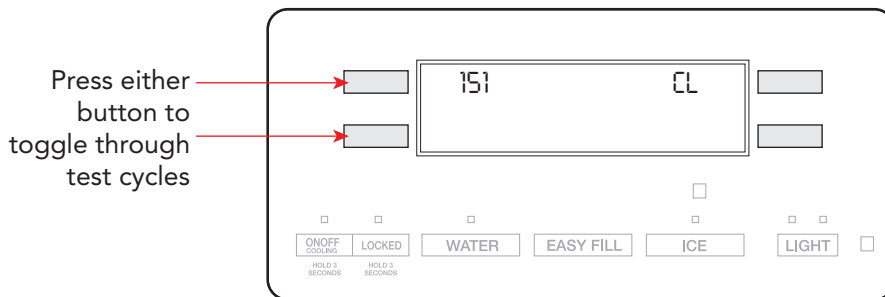
145 Ice Box Thermistor

This test will check the temperature from the Ice Maker box thermistor. You will see the actual temperature, **OP** open thermistor, or **SH** shorted thermistor.



151 Fresh Food Door State

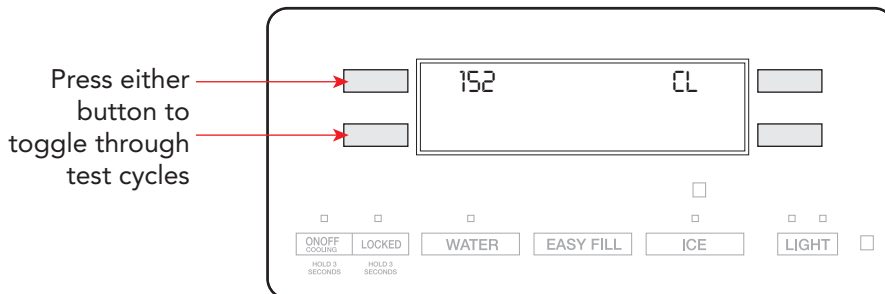
This test will check the Fresh food door switches. When either door is open, the display should read **OP** (open) and when both doors are closed, the display should read **CL** (closed).



Note: By pushing either fresh food door switches you can toggle state from **OP** (open) to **CL** (closed).

152 Freezer Food Door State

This test will check the Freezer door switches. When the door is open, the display should read **OP** (open) and when the door is closed, the display should read **CL** (closed).

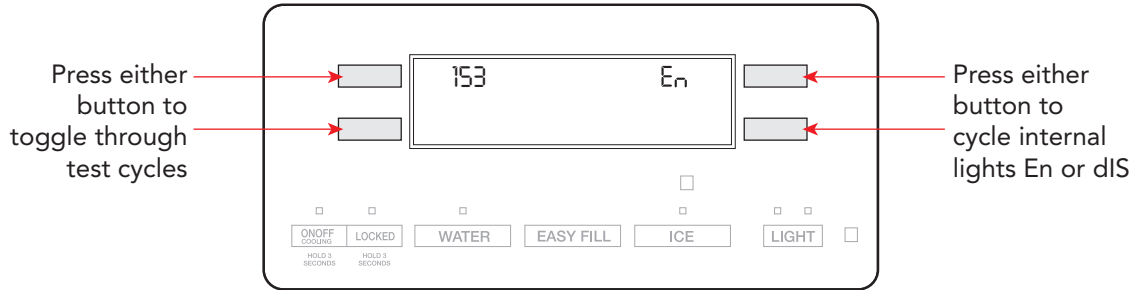


Note: By pushing freezer door switch you can toggle state from **OP** (open) to **CL** (closed).

Service Tests (continued)

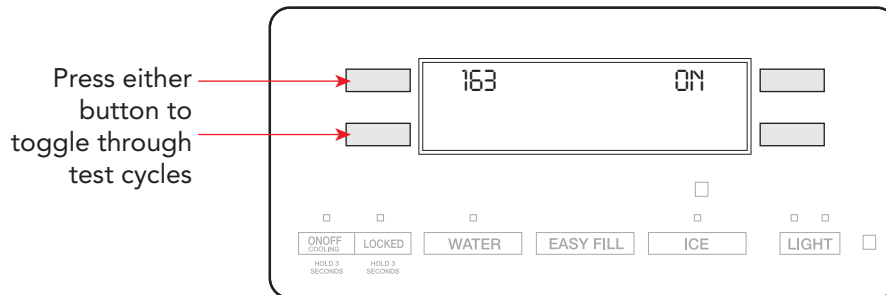
153 Disable Internal Lights

Press the "UR" keypad or "LR" keypad to toggle (enable) En and (disable) dIS internal lights.



163 Water Dispenser

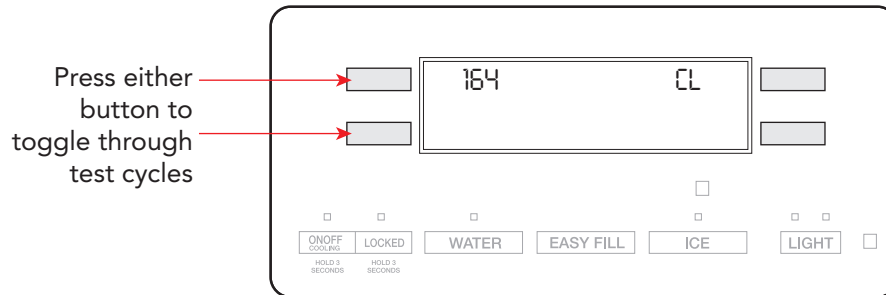
This test shows the state of the water dispenser valve (On or OFF).



Note: By pushing actuator pad or easy fill keypad you can control state of water dispenser valve.

164 External Ice Chute Door

This test shows the state of the external ice chute door CL (closed) or OP (open).

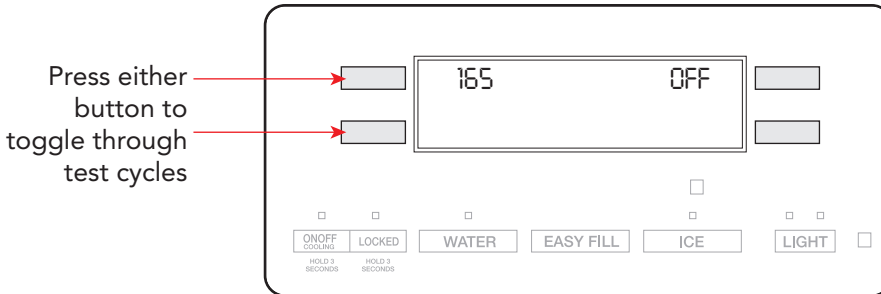


Note: By pushing actuator pad you can control state of external ice chute door.

Service Tests (continued)

165 Dispenser Lamp

This test shows the state of the dispenser lamp (On or OFF).



Note: By pushing actuator pad or express fill keypad you can control state of dispenser lamp.

167 Cavity Heater Test

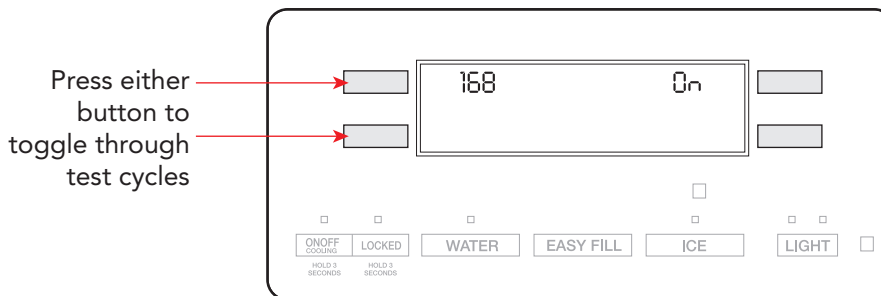
Press the "UR" keypad or "LR" keypad to toggle cavity heater On or OFF.



Note: Pushing UR or LR keypads toggles the cavity heaters state to On or OFF.

168 Cube Dispenser and Internal Ice Chute Door Operation

This test shows the state of the ice auger motor and the internal ice chute door (On or OFF).

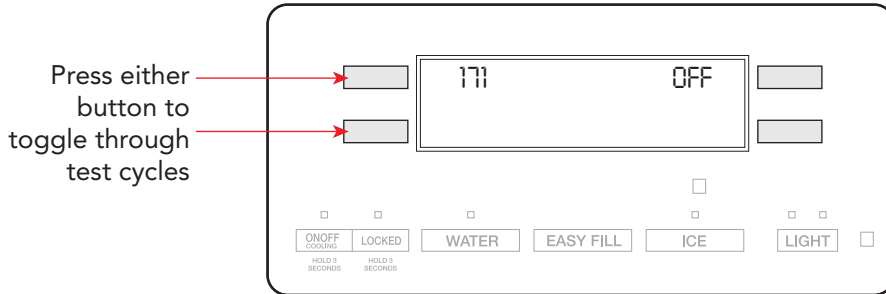


Note: By pushing actuator pad you can control state of the ice auger motor and the internal ice chute door.

Service Tests (continued)

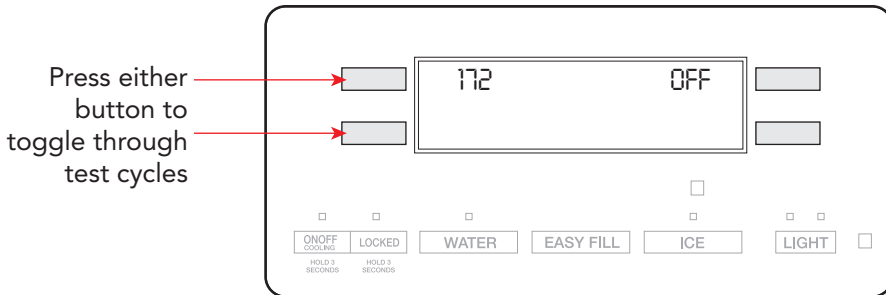
171 Actuator Pad

Display shows the state of the actuator pad (On or OFF).



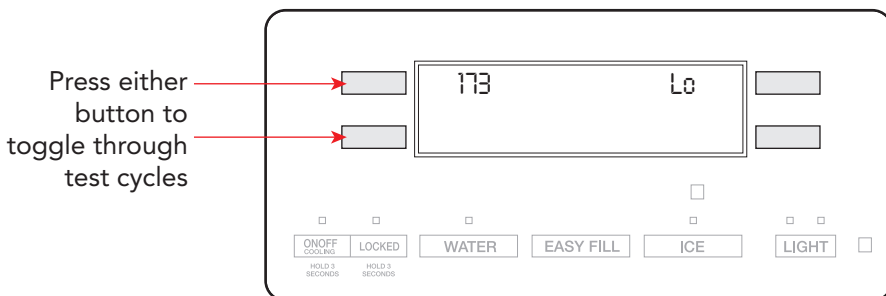
172 Front Fill

Display shows the state of the front fill (On or OFF).



173 Ambient Light

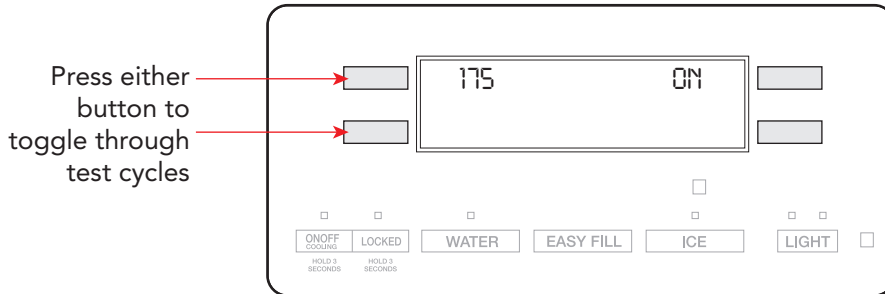
Display shows the state of the light sensor measurement (Hi or Lo). Night light will turn on when light sensor measures Lo. By changing the sensor's exposure to ambient light you can control the sensor measurement.



Service Tests (continued)

175 Dispenser Switch

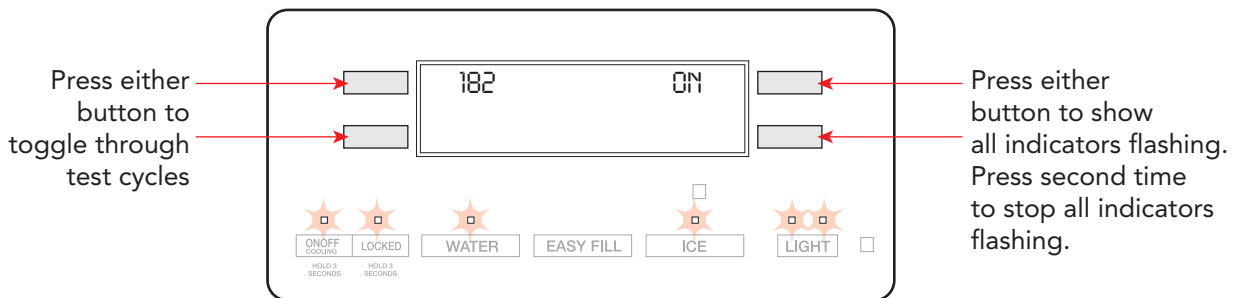
Display shows the state of the dispenser switch (ON or OFF).



Note: By pushing actuator pad or easy fill keypad you can change state of dispenser switch.

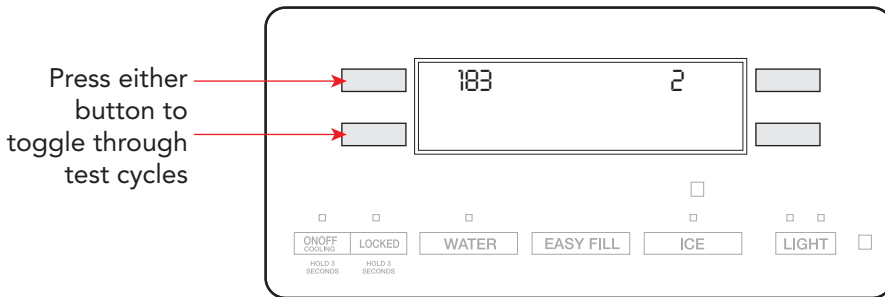
182 LED Indicator Operation

Press the "UR" keypad or "LR" keypad to toggle operation of LED Indicators. All LED Indicators will flash. Press again and LED will stop flashing.



183 Keypad Operation

Display shows a numeric or letter display indicating the last key pressed.

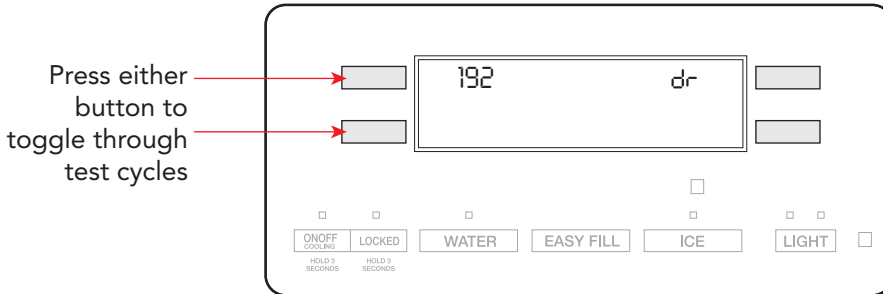


Note: UR and LR keypads have no effect when pressed and UL and LL keypads remain operational.

Service Tests (continued)

192 Ice Maker State Test

Display shows **dr** if left fresh food door switch is in the door open position. Display shows **OFF** if ice maker power switch is in the off position and door closed. Display shows **On** if the ice maker power switch is in the on position and the door closed and heater is off. Display shows **OnH** if icemaker power switch is in the on position and harvest heater is on and door closed.



193 Ice Maker Relay

Press the "UR" keypad or "LR" keypad to toggle the ice maker relay on and off.

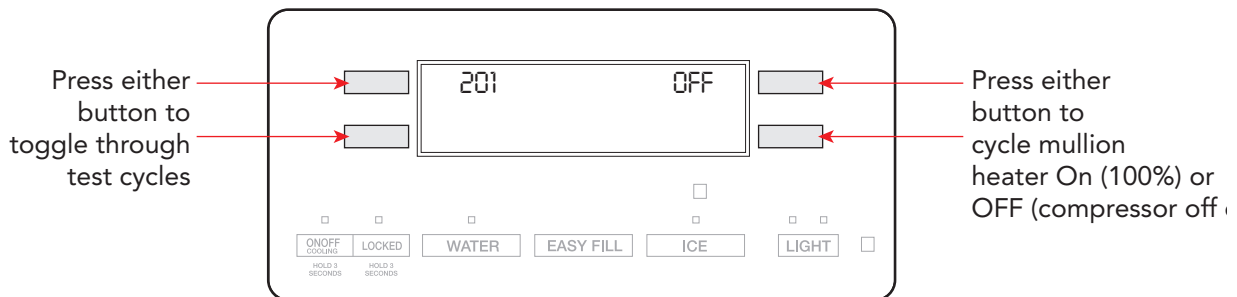


Note: This tests the M-4 relay on the control board.

The following are programmable changes that can be made to suit the customers requirements for proper operation

201 Mullion Heater Override

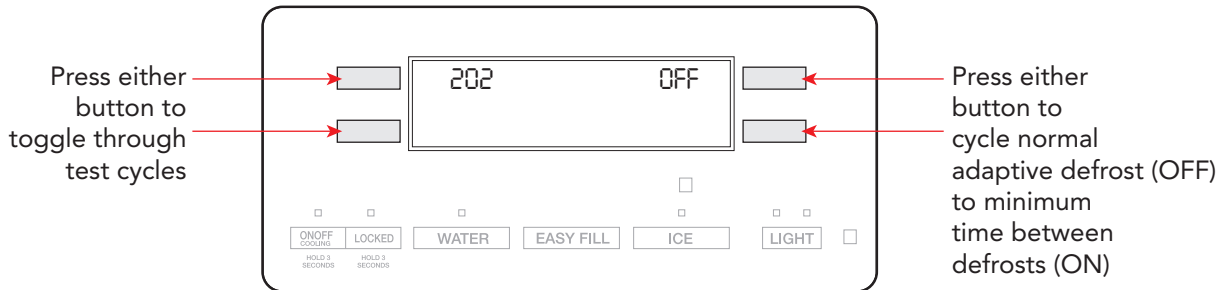
Press the "UR" keypad or "LR" keypad to cycle this function. When set to OFF, the mullion heater will only operate when the compressor is in the OFF cycle. When set to ON, the heater will operate 100% of the time.



Service Tests (continued)

202 Default Defrost Operation

Press the "UR" keypad or "LR" keypad to toggle defrost operation from normal adaptive defrost (off position) to minimum time between defrosts (on position).



203 Show Temperature Set points—Disregard this Test (unit will not display actual-temperature only set temperature).

211 Fresh Food Temperature Offsets

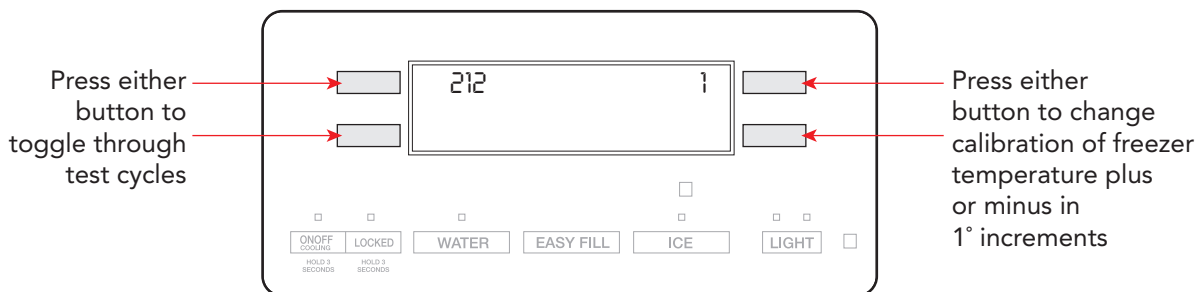
Press the "UR" keypad or "LR" keypad to toggle calibration of fresh food temperature plus or minus in 1°F increments up to 6°F.



Note: Temperature will read in fahrenheit regardless of what current temperature scale is being used.

212 Freezer Temperature Offsets

Press the "UR" keypad or "LR" keypad to toggle calibration of freezer temperature plus or minus 1°F in increments up to 6°F.

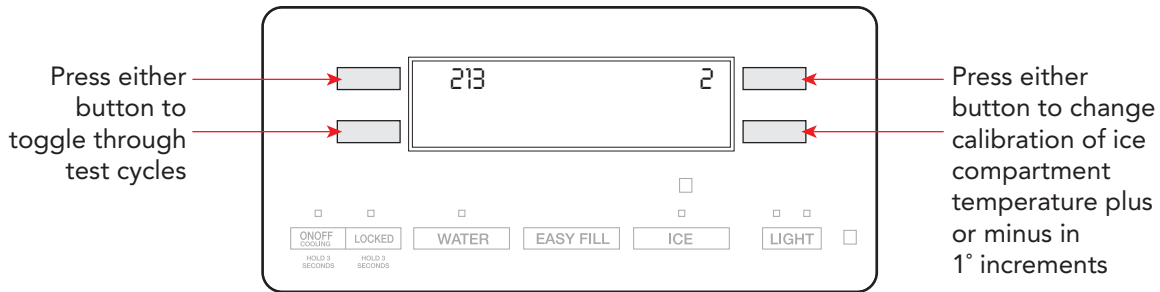


Note: Temperature will read in fahrenheit regardless of what current temperature scale is being used.

Service Tests (continued)

213 Ice Compartment Temperature Offsets

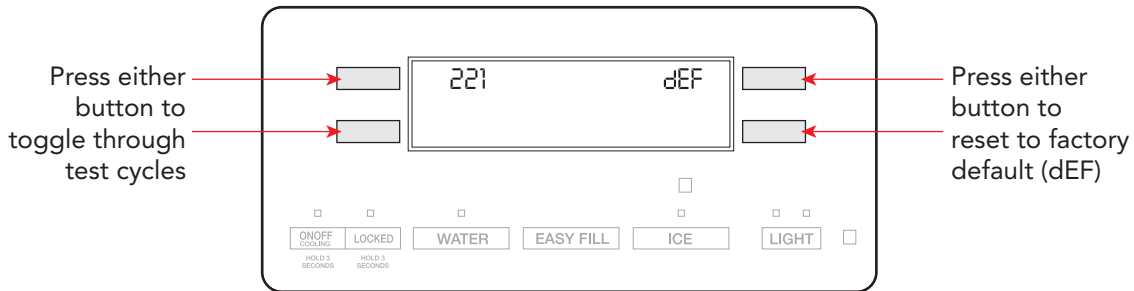
Press the "UR" keypad or "LR" keypad to toggle calibration of ice maker compartment temperature plus or minus 1°F in increments up to + 0 / + 8°F.



Note: Temperature will read in fahrenheit regardless of what current temperature scale is being used.

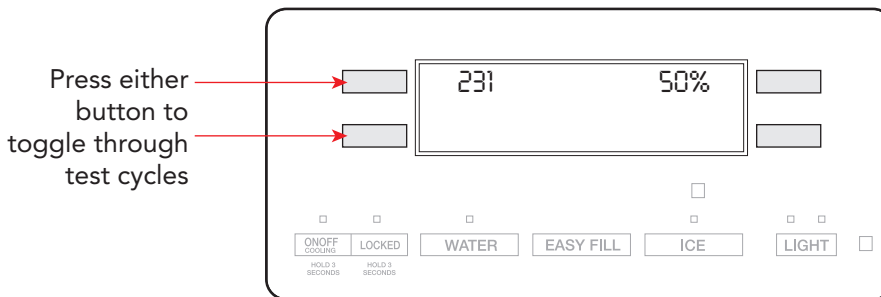
221 Reset Default Settings

Press the "UR" keypad or "LR" keypad to toggle reset to factory default settings dEF.



231 Water Filter Usage

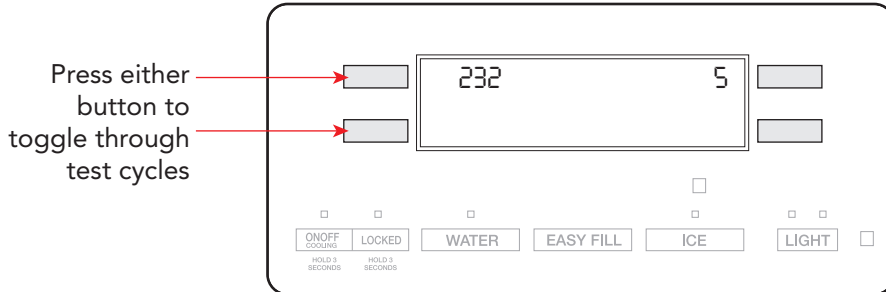
Display shows the percent water filter consumption since water filter was reset. 100% indicates the filter should be replaced.



Service Tests (continued)

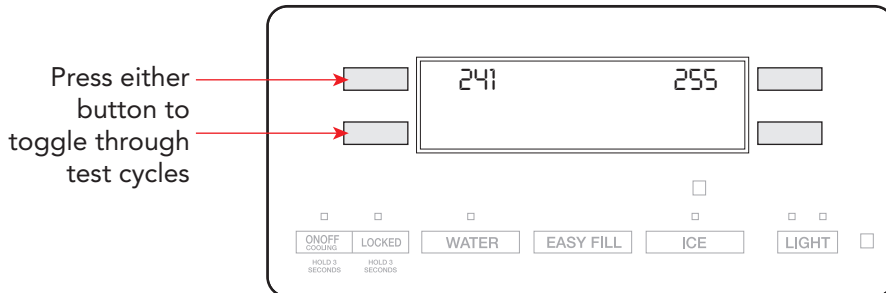
232 Water Filter Days In Use

The display shows the number of days since the water filter was reset.



241 Software Revision Main Control Board

The display shows the software revision of the main control board.



244 Software Revision Display Board

The display shows the software revision of the display board.

