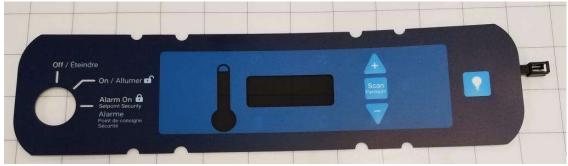
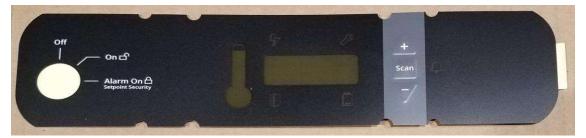


How to calibrate the display reading on +4° / +5°C refrigerators and -20°C / -30°C freezers with TSX Controls (includes CAX models)







+4, +5, -20 & -30 units with TSX Controls Revision Date: Dec 6, 2019

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Step 1: Install an NIST thermometer or T-type thermocouple into a 100ml solution bottle, filled with a 50/50 mixture of distilled water and glycerin, located in the geometric center of the cabinet. Allow the unit to reach set point and then stabilize for at least 2-3 hours with no door openings.

Step 2: Once the unit is at cycle temp and the bottle has stabilized for at least 2 to 3 hours without any door openings, check the temperature of the T-type thermocouple. If the display temperature is different than the center air reading from the T-type thermocouple, the display will need to be calibrated. Refrigerators should be checked for stable temperature at their normal operating temperature range. For -20 & -30 freezers, it is better to calibrate their temperature at bottom out temperature of an empty cabinet as opposed to their normal set point / cycle temperature. Check calibration on freezers once the freezer reaches bottom out and is stable for at least 2 to 3 hours.

Step 3: To calibrate the display, press and hold the center button for ~5 seconds until "PRG" (program mode) is shown. Once in program mode, release the button and press the center button and hold for ~10 seconds again until "SER" (service mode) is displayed. The initial readout will be the temperature program that is running, typically 4, 5, 20 or 30. Continue to use the center button to scroll through the service menu with a single press and release, no hold necessary. The next parameters will be the check sums, program configurations and control offsets. Scroll until you get to the parameter "diS oFSt". The number flashing will be the temperature offset / display calibration offset. When this number is changed the reading on the display will match the actual temperature of the unit. (See example below on how you should adjust the temperature offset.) Once changes have been made, press and release the center button to save. If no buttons have been pressed in 30 seconds, the unit will time out of service mode and go back to the normal display. After adjusting the offset, the temperature display will slowly change over a period of 5 to 10 minutes. Allow the display some time to remain constant before checking again.

Example: If the display is reading 4.6°C and the weighted T-type thermocouple is reading 3.9°C the offset will need to be -0.7°C. If the temperature offset is 0.0°C, use the down arrow to change 0.0°C to -0.7°C. If there have already been offset adjustments programmed, adjust it accordingly. If the offset is set at +0.5° C from previous calibrations then use the arrows change the offset to -0.2°C. Once changes have been made, press the center button again to save.



The TSX models cover are in the following table

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TSX1205SV TSX2305SV TSX3005SV TSX5005SV TXS2320FV TSX1205SY TSX2305SY TSX3005SY TSX5005SY TXS2320FY TSX1205SZ TSX2305SZ TSX3005SZ TSX5005SZ TXS2320FZ TSX1230FA TSX2330FA TSX5030FA TXS3020EA TSX1230FD TSX2330FD TSX3030FD TSX5030FD TXS3020ED TSX1230FV TSX2330FV TSX3030FV TSX5030FV TXS3020EV TSX1230FY TSX2330FY TSX3030FY TSX5030FZ TXS3020EY TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1205SA	TSX2305SA	TSX3005SA	TSX5005SA	TXS2320FA
TSX1205SY TSX2305SY TSX3005SY TSX5005SY TXS2320FY TSX1205SZ TSX2305SZ TSX3005SZ TXS2320FZ TSX1230FA TSX2330FA TSX3030FA TSX5030FA TXS3020EA TSX1230FD TSX2330FD TSX3030FD TXS3020ED TSX1230FV TSX2330FV TSX3030FV TSX5030FV TXS3020EV TSX1230FY TSX2330FY TSX3030FY TSX5030FY TXS3020EY TSX1230FZ TSX2330FZ TSX3030FZ TSX5030FZ TXS3020EZ TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1205SD	TSX2305SD	TSX3005SD	TSX5005SD	TXS2320FD
TSX1205SZ TSX2305SZ TSX3005SZ TSX5005SZ TXS2320FZ TSX1230FA TSX2330FA TSX3030FA TSX5030FA TXS3020EA TSX1230FD TSX2330FD TSX5030FD TXS3020ED TSX1230FV TSX2330FV TSX3030FV TSX5030FV TXS3020EV TSX1230FY TSX2330FY TSX3030FY TSX5030FY TXS3020EY TSX1230FZ TSX2330FZ TSX3030FZ TSX5030FZ TXS3020EZ TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LD TSX2330LD TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1205SV	TSX2305SV	TSX3005SV	TSX5005SV	TXS2320FV
TSX1230FA TSX2330FA TSX3030FA TSX5030FA TXS3020EA TSX1230FD TSX2330FD TSX3030FD TXS3020ED TSX1230FV TSX2330FV TSX3030FV TSX5030FV TXS3020EV TSX1230FY TSX2330FY TSX3030FY TSX5030FY TXS3020EY TSX1230FZ TSX2330FZ TSX3030FZ TSX5030FZ TXS3020EZ TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LD TSX2330LD TSX3030LD TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1205SY	TSX2305SY	TSX3005SY	TSX5005SY	TXS2320FY
TSX1230FD TSX2330FD TSX3030FD TSX5030FD TXS3020ED TSX1230FV TSX2330FV TSX3030FV TSX5030FV TXS3020EV TSX1230FY TSX2330FY TSX3030FY TSX5030FY TXS3020EY TSX1230FZ TSX2330FZ TSX3030FZ TSX5030FZ TXS3020EZ TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LD TSX2330LD TSX3030LD TSX5030LD TXS3020FD TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1205SZ	TSX2305SZ	TSX3005SZ	TSX5005SZ	TXS2320FZ
TSX1230FV TSX2330FV TSX3030FV TSX5030FV TXS3020EV TSX1230FY TSX2330FY TSX3030FY TSX5030FY TXS3020EY TSX1230FZ TSX2330FZ TSX3030FZ TSX5030FZ TXS3020EZ TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LD TSX2330LD TSX3030LD TSX5030LD TXS3020FD TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1230FA	TSX2330FA	TSX3030FA	TSX5030FA	TXS3020EA
TSX1230FY TSX2330FY TSX3030FY TSX5030FY TXS3020EY TSX1230FZ TSX2330FZ TSX3030FZ TSX5030FZ TXS3020EZ TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LD TSX2330LD TSX3030LD TSX5030LD TXS3020FD TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1230FD	TSX2330FD	TSX3030FD	TSX5030FD	TXS3020ED
TSX1230FZ TSX2330FZ TSX3030FZ TSX5030FZ TXS3020EZ TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LD TSX2330LD TSX3030LD TSX5030LD TXS3020FD TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1230FV	TSX2330FV	TSX3030FV	TSX5030FV	TXS3020EV
TSX1230LA TSX2330LA TSX3030LA TSX5030LA TXS3020FA TSX1230LD TSX2330LD TSX3030LD TSX5030LD TXS3020FD TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1230FY	TSX2330FY	TSX3030FY	TSX5030FY	TXS3020EY
TSX1230LD TSX2330LD TSX3030LD TSX5030LD TXS3020FD TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1230FZ	TSX2330FZ	TSX3030FZ	TSX5030FZ	TXS3020EZ
TSX1230LV TSX2330LV TSX3030LV TSX5030LV TXS3020FV TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1230LA	TSX2330LA	TSX3030LA	TSX5030LA	TXS3020FA
TSX1230LY TSX2330LY TSX3030LY TSX5030LY TXS3020FY	TSX1230LD	TSX2330LD	TSX3030LD	TSX5030LD	TXS3020FD
	TSX1230LV	TSX2330LV	TSX3030LV	TSX5030LV	TXS3020FV
TOV/0001 T	TSX1230LY	TSX2330LY	TSX3030LY	TSX5030LY	TXS3020FY
TSX1230LZ TSX2330LZ TSX3030LZ TSX5030LZ TXS3020FZ	TSX1230LZ	TSX2330LZ	TSX3030LZ	TSX5030LZ	TXS3020FZ



The CAX models cover are in the following table

CH1204BA	CH2304BA	CH3004BA	CH5004BA
CH1204BD	CH2304BD	CH3004BD	CH5004BD
	CH2305CA	CH3005CA	CH5005CA
	CH2305CD	CH3005CD	CH5005CD
CH1205GA	CH2305GA	CH3005GA	CH5004GA
CH1205GD	CH2305GD	CH3005GD	CH5004GD
CH1205PA	CH2305PA	CH3005PA	CH5004PA
CH1205PD	CH2305PD	CH3005PD	CH5004PD
CH1205SA	CH2305SA	CH3005SA	CH5004SA
CH1205SD	CH2305SD	CH3005SD	CH5004SD
CH1230FA	CH2330FA	CH3030FA	CH5030FA
CH1230FD	CH2330FD	CH3030FD	CH5030FD
CH1230LA	CH2330LA	CH3030LA	CH5030LA
CH1230LD	CH2330LD	CH3030LD	CH5030LD
	CH2320EA	CH3020EA	CH4505CA
	CH2320ED	CH3020ED	CH4505CD
	CH2320FA	CH3020FA	CH4505GA
	CH2320FD	CH3020FD	CH4505GD