

Setting Up Your Ivoclar Programat® CS for Obsidian® Lithium Silicate Ceramic

STEP 1 Calibrate Your Oven

- Calibrate your oven per manufacturer's instructions
- Please ensure your oven is set using Celsius temperature.

STEP 2 Modifying a Program

- From the standby mode screen (A.), use the "Cursor" keys (◀▶) to scroll through the screens until arriving at the individual program you desire to modify (B.)



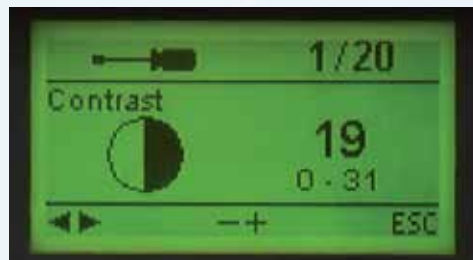
(A.)



(B.)

STEP 3 Programming Screen

- Press the "Settings" key (⚙️) on the main control panel, which will take you to the contrast adjustment screen (C.)



(C.)



STEP 3 (CONTINUED)

- Use the “Cursor” keys (◀▶) to scroll through the screens until arriving at the programming screen (7/20), shown in image (D.)



(D.)



- Press the “ENTER” button . The screen will look like image (E.)

P 19	B 403	S 00:18
t 30	T 410	H 00:01
V ₁ 0	V ₂ 0	L 0
		

(E.)





STEP 4 Two-Stage Program

- Use the “Cursor” keys (◀▶) to scroll through the cells until arriving at the two-stage program cell shown in image (F.).





P 19	B 403	S 00:18	
t 30	T 410	H 00:01	
V ₁ 0	V ₂ 0	L 0	
			→2.



↑ (F.)

STEP 4 (CONTINUED)

- Ensure the oven is in two-stage program mode and showing one of the following symbols: 
- If your oven is in the one-stage mode as indicated by  press   to enter two-stage mode.



STEP 5 First Stage Indicator



- The screen should show the first stage with the lower portion in bold, as indicated by . The stage indicator should read → 2. If the indicator reads 1. ←, use the “Cursor” keys   to scroll through the cells until arriving at the stage indicator cell. Press  once so the indicator will read → 2. as shown in image (G.)

P 19	B 403	S 00:18
t ↗ 30	T 410	H 00:01
V ₁ 0	V ₂ 0	L 0
	 	→2. ←

(G.)

STEP 6 Enter First Stage Values

- You are now ready to enter values into each of the cells shown. Use the “Cursor” keys   to scroll through the cells until arriving at the “B” cell as shown in image (H.).


P 19	B 403	S 00:18
t ↗ 30	T 410	H 00:01
V ₁ 0	V ₂ 0	L 0
	 	→2.



(H.)

STEP 6 (CONTINUED)

- Use the $\ominus\oplus$ keys to change the value in the “B” cell to 400.
(Use the Cursor keys to scroll through to other cells S, $t\rightarrow$, T, H, V_1 , and V_2 in order to enter the desired values.)
- Use the $\ominus\oplus$ keys to change the value in the “S” cell to 03:00
- Use the $\ominus\oplus$ keys to change the value in the “ $t\rightarrow$ ” cell to 90
- Use the $\ominus\oplus$ keys to change the value in the “T” cell to 780
- Use the $\ominus\oplus$ keys to change the value in the “H” cell to 00:10
- Use the $\ominus\oplus$ keys to change the value in the “ V_1 ” cell to 400
- Use the $\ominus\oplus$ keys to change the value in the “ V_2 ” cell to 780

STEP 7 Second Stage Indicator

- Use the “Cursor” keys $\leftarrow\rightarrow$ to scroll to the stage indicator cell
- The cell will read $\rightarrow 2.$, press ENTER once so the indicator will read $1.\leftarrow$ as shown in image (I.). Now, the screen will show the upper portion (second stage) in bold, as indicated by .

P 19		
$t\rightarrow$ 30	T 410	H 00:01
V_1 0	V_2 0	L 0
		

1. \leftarrow



(I.)

STEP 8 Enter Second Stage Values

- Use the “Cursor” keys (◀▶) to scroll through the cells until arriving at the “t₁” shown in image (J.).






(J.)

- Use the (−)(+) keys to change the value in the “t₁” cell to 40 (Use the Cursor keys to scroll through to other cells T, H, V₁, V₂, L, and t_L in order to enter the desired values.)
- Use the (−)(+) keys to change the value in the “T” cell to 820
- Use the (−)(+) keys to change the value in the “H” cell to 10:00
- Use the (−)(+) keys to change the value in the “V₁” cell to 780
- Use the (−)(+) keys to change the value in the “V₂” cell to 819
- Use the (−)(+) keys to change the value in the “L” cell to 680
- Use the (−)(+) keys to change the value in the “t_L” cell to 50

Note: The preceding furnace parameters are to be used for crystallizing the milled Obsidian restorations. If the Obsidian crown appears “over-glazed” or “too glossy,” please recalibrate your oven. If the problem continues, please lower the final hold/firing temperature by 5°C increments as recommended in the Obsidian User Manual, which can be found at www.obsidiansceramic.com/resources/index.aspx. Since each user’s furnace performance may be unique, the user may find their hold/firing temperature range will be slightly lower than the recommended 820°C (i.e. between 810-820°C).

STEP 9 Naming the Cycle

Now you are ready to name the Obsidian firing cycle.




- Press the “Esc” key  to go back to the programming screen, shown in image (K.).
- Press the   keys to reach Renaming screen in image (L.).



(K.)







(L.)

- Press the   keys and the “ENTER” key  to go to the keyboard screen, shown in image (M.).



(M.)

- Enter the desired program name using the   keys to choose and enter each letter by pressing the “ENTER” key .
- Once the name has been completely entered, press the “ESC” key  to save the program (P19) name.



Obsidian® Milling Blocks



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