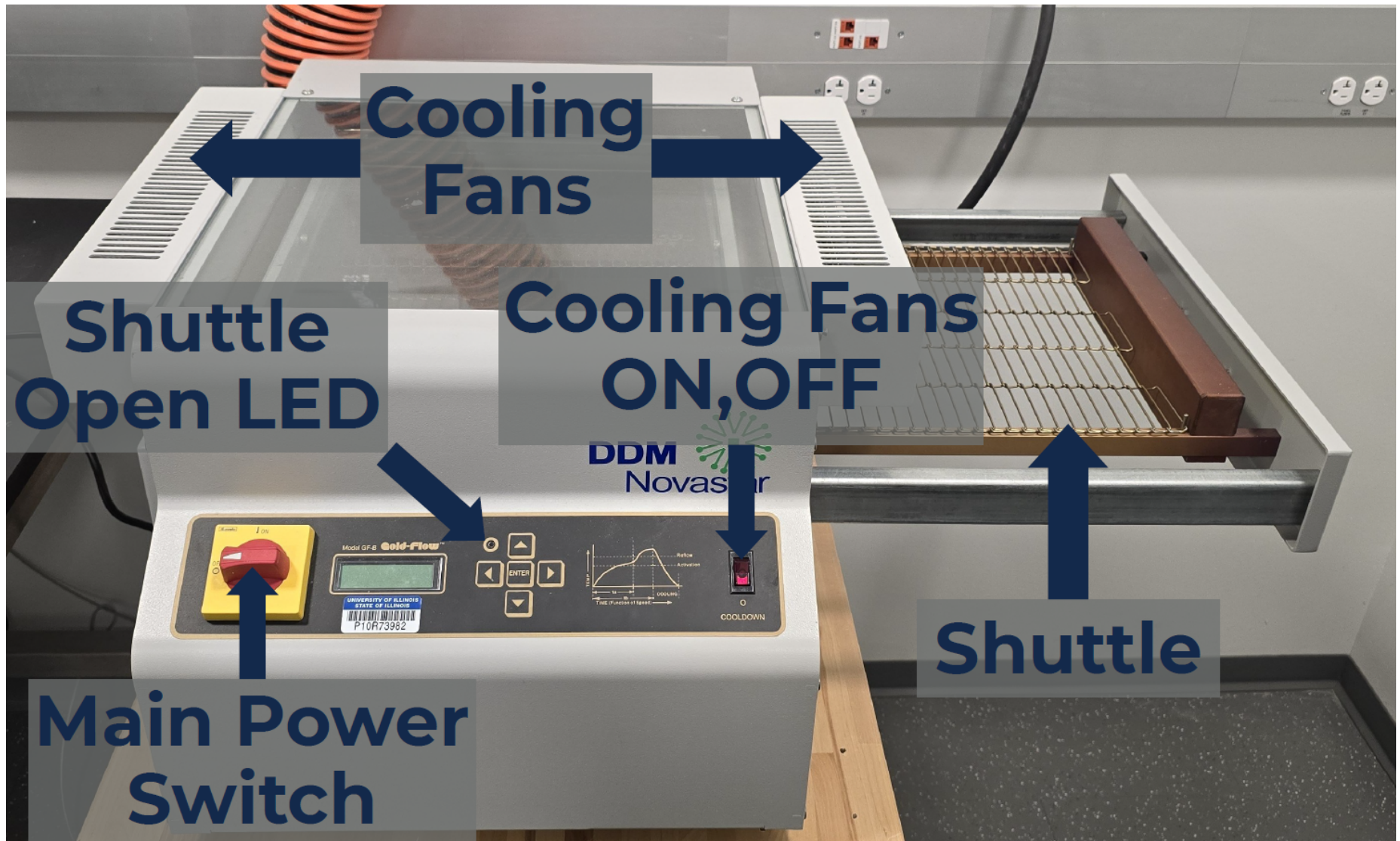
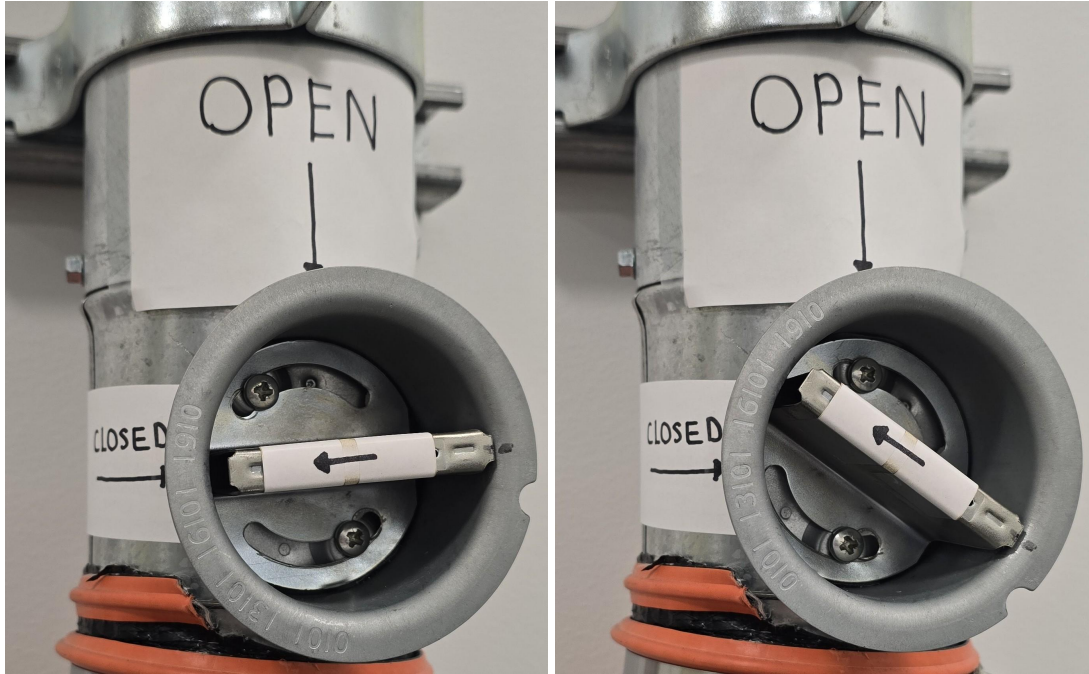


DDM Novastar GF-B Reflow Oven Instructions.



Step 1. Open the air vent



Open the valve for the exhaust vent a little bit by turning the valve clockwise as shown above. You should hear a hiss of the air being pulled up into the exhaust vent. If you open the vent too much the oven will not be able to heat up fully.

Step 2. Power the oven on



Turn the main power switch to the on position.

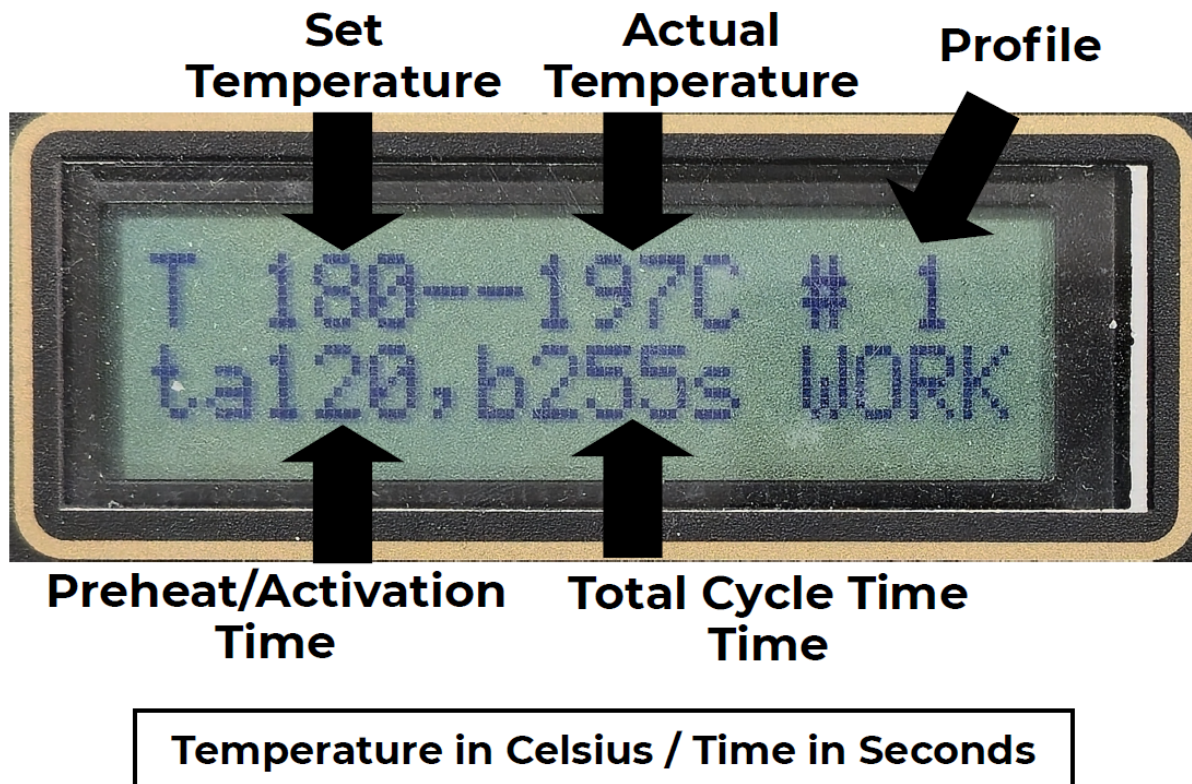


Once the switch is in the '**ON**' position, you will see this screen. Press the **ENTER** button to continue.

Step 3. Set up the oven



Use the up and down arrows to navigate to '**MODE: WORK**' then press the **ENTER** key.



You should review this screen and verify the settings are correct for the solder paste that you are using. If incorrect, you may need to use the left and right arrows to navigate to a different profile. Change it to the correct profile by using the up and down arrows.

For SMDLTFP (the syringe solder paste) or TS391LT250 (the white tub)

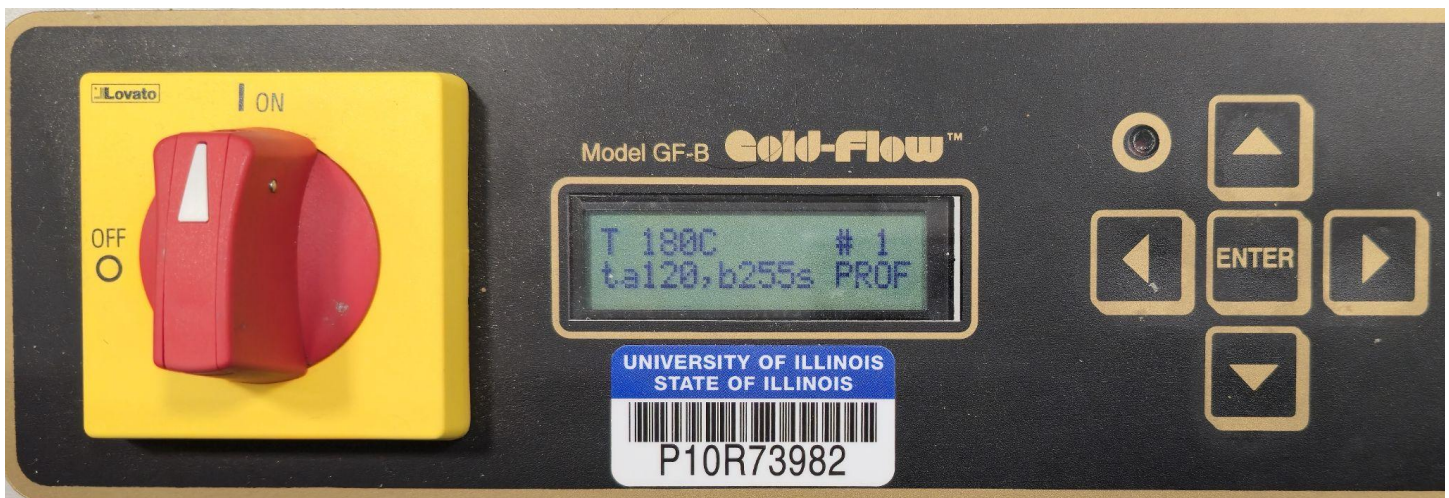
T = temperature	ta = preheat/activation time	b = total cycle time
180	120	255

If the values match the table above, continue to Step 5. If they do not match, or if you are using a different solder, proceed to Step 4.

Step 4. Changing setting (IF NEEDED)



If the pre-loaded profiles do not match your solder, you will need to manually adjust the settings. Use the up and down arrows to navigate to '**MODE: PROFILE**' then press the **ENTER** key.



Use the left and right arrows to select the digit you wish to change. Then use the up and down arrows to change the selected digit. Once you have the correct settings, press **ENTER** to exit **MODE: PROFILE**.

****Do not change the settings of Profile 1****

If the solder you are using requires different settings from the current profiles, create a new profile for your solder.

WARNING: Do not change the 's' to 'm'. Leave the settings in seconds or damage will occur to your board.

Step 5. Preheat the oven (30 minutes)

Once configurations are set, ensure you are in '**MODE: WORK**'. Push the shuttle completely to one side of the oven until the 'shuttle open' LED turns off. You may need to slightly lift the handle while pushing to ensure it closes properly. You should see the actual temperature begin to rise. If the oven has not been used recently, let it warm up for 30 minutes. If it has been used recently, verify that the actual temperature is near the target before proceeding.

Step 6. Reflow your Board

Place your board on the shuttle and move it into the oven. Make sure to push the shuttle all the way in. Once the shuttle is secure, press the left and right arrows simultaneously. You will hear a beep and see the timer begin. When the process completes, move the shuttle completely to the opposite side.

Step 7. Cool down

Let the board sit on the shuttle with the cooling fans running. If the fans are off, turn on the cooling fan switch. Wait until the board is cool before handling.

Step 8. Turning off the oven

Exit '**MODE: WORK**' by pressing the **ENTER** key, turn off the main power, and open the shuttle half way. Leave the vent open for a few minutes to help cool down the oven. Close the exhaust vent (from Step 1) after the oven has cooled.

For even more information on this oven please consult the manual:

[GF-B Reflow Batch Oven Manual R1-1.pdf](#)