

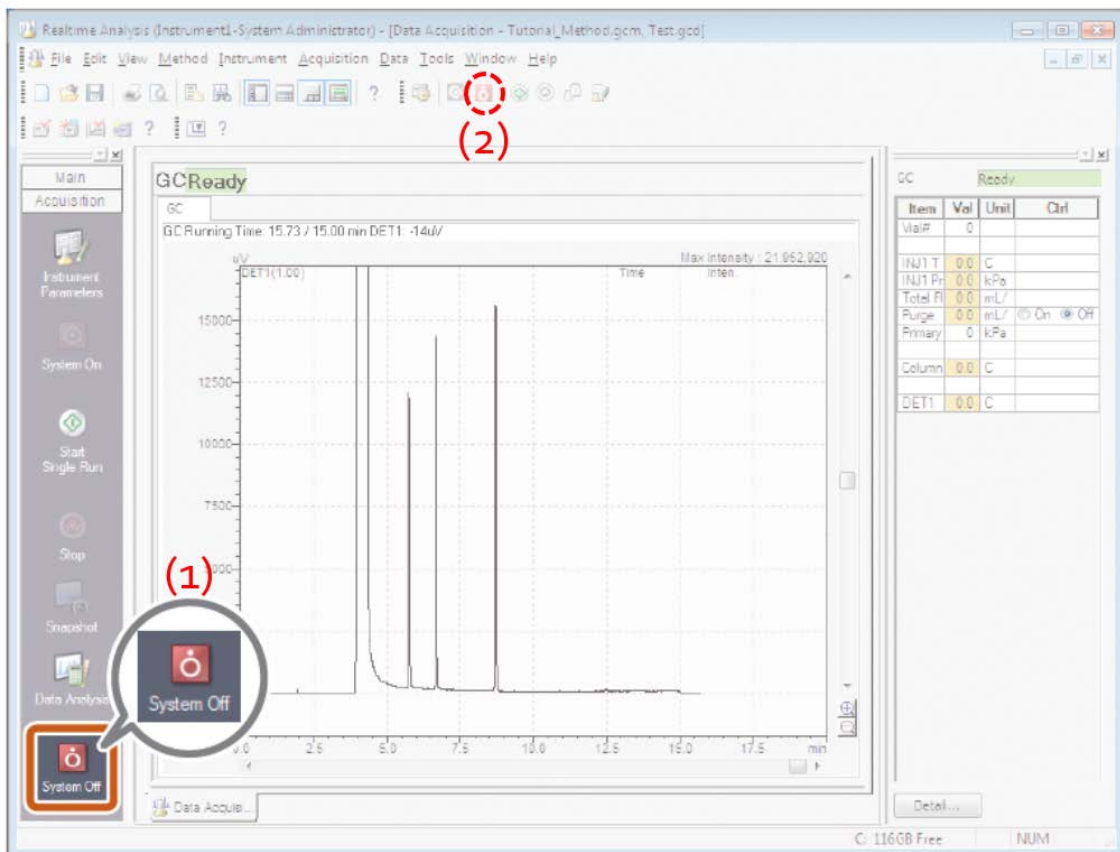
*This following description is only valid for basic GC instruments and does not mention all possible additions and modifications. If you own a more specialized instrument or if you are unsure, we strongly recommend contacting your local Shimadzu representative before taking any actions. Our specialists can give customized directions free of charge via telephone or e-mail and thereby prevent possible damages to your system.*

## Preparing your Shimadzu Gas Chromatograph for Shutdown

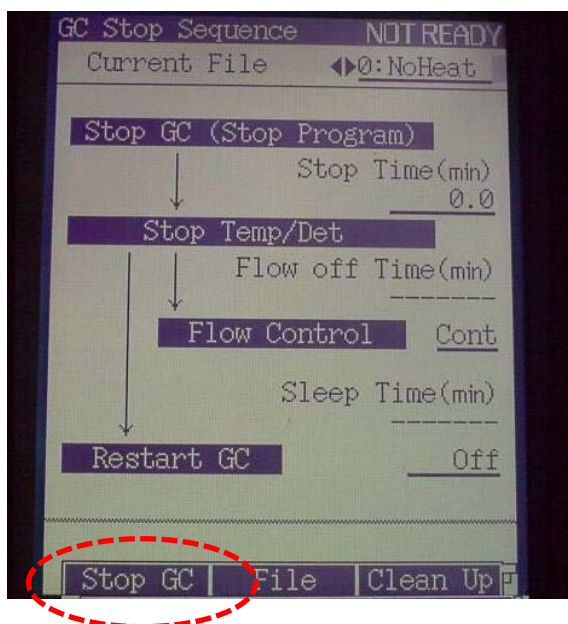
### Step 1: Turn GC system off (Stop the GC).


Do not turn off GC power when the system is hot. First, turn off heat control to cool down the oven and other heated modules. There are several ways to do this.

- a) From LabSolutions software, you can either press “System off” from Acquisition menu at the left (1) or press “System off” from tool bar on top (2).



- b) From GC-2010/2014 front panel: Press SYSTEM (above the screen), then PF1 (below the screen) to stop.



- c) From GC-2030 front panel: press the home button  then press "GC stop sequence" to open the menu and "stop GC" to stop the system.

### Step 2: Wait for GC to cool down

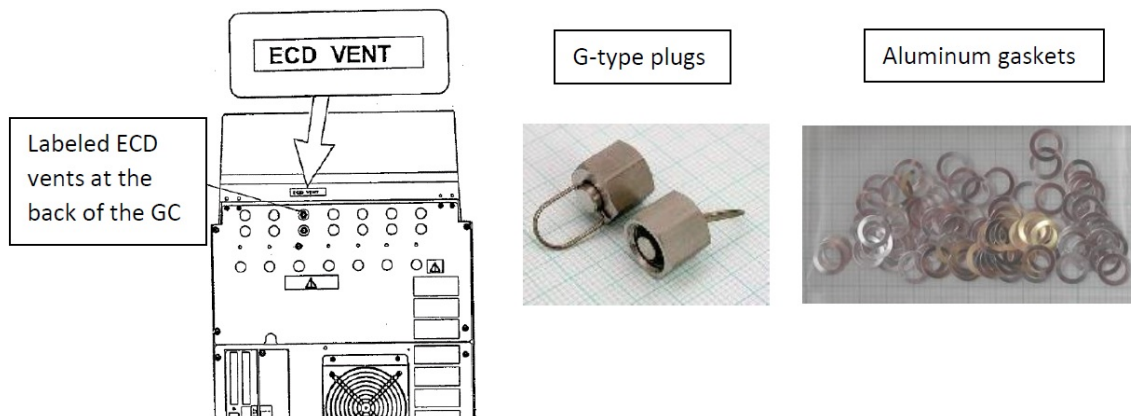
It's important to wait till the system is completely cool before turning off gas flow. Turning off carrier gas flow while the GC is still hot could damage the column and some detectors. We recommend that all temperature zones be below 50°C before the gas is turned off.

### Step 3: Protect the ECD detector (Go directly to Step 4 if no ECD is installed)

The safest solution to keep atmospheric gases from entering the ECD detector is a build in bypass for the make-up gas in the GC system, which always keeps a minimal protective gas flow through the detector even if the GC is electrically switched off. This bypass is always present on the GC-2030 and is an optional part for the GC-2010 and GC-2010Plus. If your instrument has a bypass for the ECD make-up gas, just make sure that the cut-off valves and regulators for the make-up gas stay opened so the gas can flow.

If you are unsure if you have a bypass option, please contact your local Shimadzu distributor first and ask for clarification.

If you do not have a bypass option or want to shut off the gas completely anyway proceed as follows: While the gas is still flowing, first remove the column from the ECD detector and close the opening with a blind plug (ferrule with wire inside). Then cap the ECD vent in the back of the GC with a G-type plug and three aluminium gaskets that come with your Shimadzu GC. Make sure both openings are sealed properly and no gas can pass through. This will fill the ECD cells with the inert Makeup Gas.

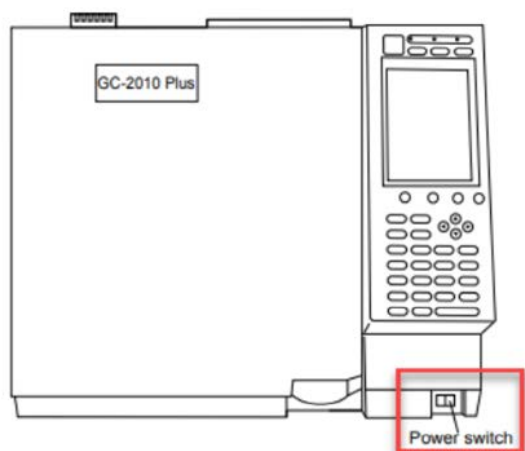


**Step 4: Turn off GC power**

When the GC is completely cooled, the GC power may be turned off. The electronic gas flow controllers will stop when the GC is powered off. Manual flow controllers must be turned off by the users (use cut-off valves or turn the regulators off). We recommend for long-term shutoff, turn the gas tanks off as well.

Power button for GC-2010 series – in front right side

Power button for the GC-2030/GC-2014 – on right side





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