

## Turning On Shimadzu High Performance Liquid Chromatograph after Extended Storage

### Step 1: Turn on the HPLC system and the computer

Plug in the power cable of each HPLC unit and switch on the unit. In case of LC-2010, LC-30, LC-20 or LC-Series before use the power switch at the front.

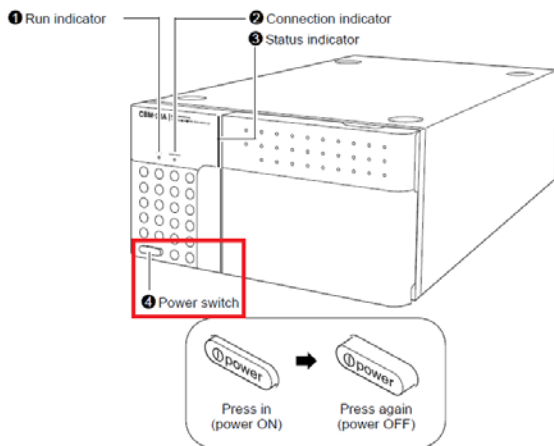


Figure 1 Power Switch LC-2010

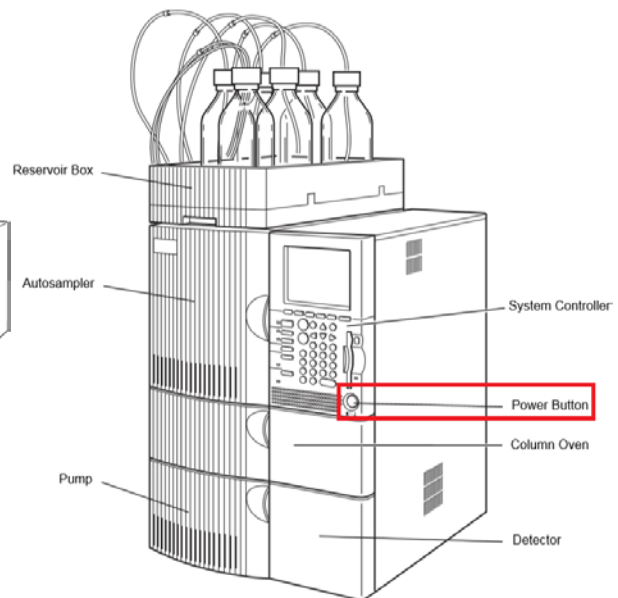


Figure 2: Power Switch LC-30 and earlier

In case of LC-2030/2040 and LC-40 series turn on the main power switch at the lower left side (LC-2030/2040) or the rear side (LC-40 series) of the instrument. If the switch is already set to "on" and the instrument is still not starting use the power switch at the front of the instrument.

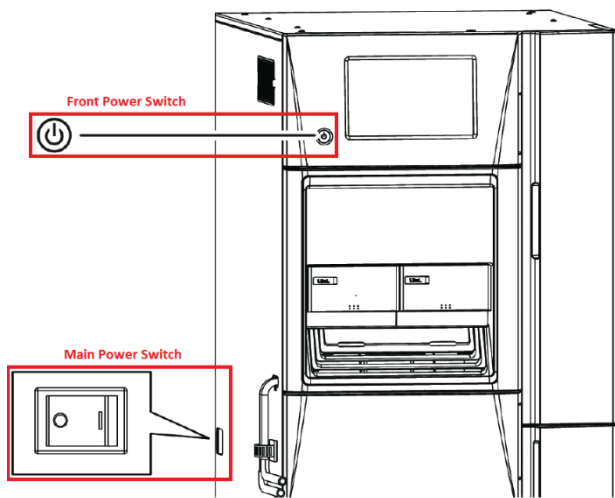


Figure 3 Power Switch LC-2030/2040

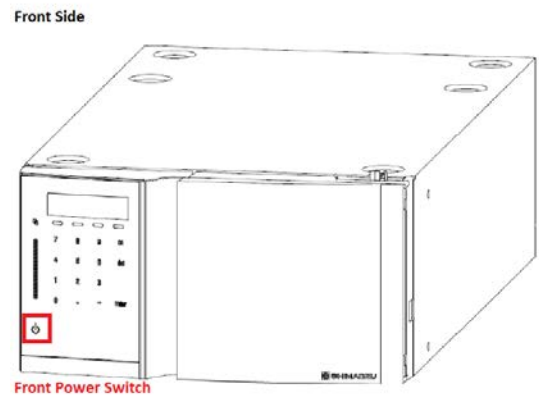
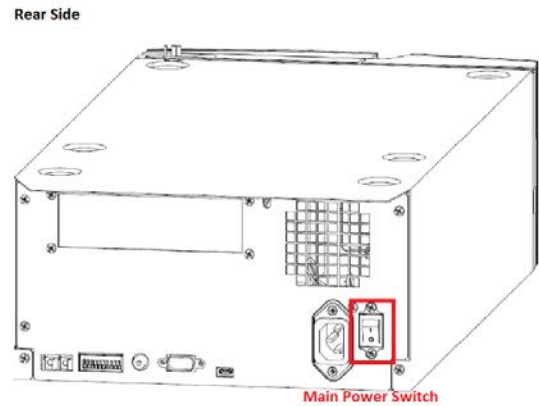


Figure 4 Power Switch LC-40 Series

Wait until the HPLC System initialized successfully.

### Step 2: “Seal Rinse” solution

Replace the “Seal Rinse” solution of the pump with fresh water (90%)/ isopropanol (10%) solution. In case of LC-30 or LC-20 pump the “rinse bottle” is located behind the control panel of the pump. For LC-2030/2040 and LC-40 the “rinse bottle” is on top of the HPLC (inside the reservoir tray).

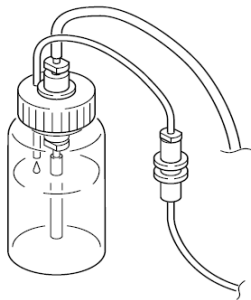


Figure 5 Rinse Bottle on LC-30/20

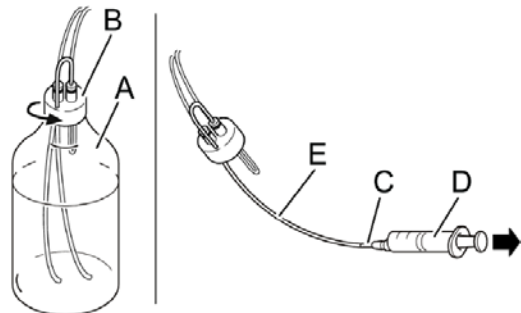


Figure 6 Rinse Bottle of LC2030/2040 and LC-40

### Step 3: Start LabSolutions

Turn on the computer, start LabSolutions and open the [Realtime Analysis] program of the related instrument:

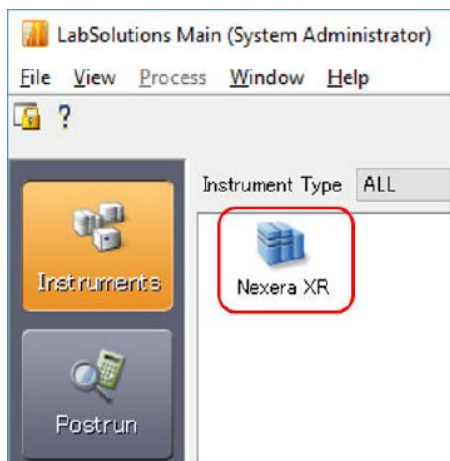
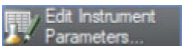


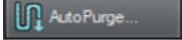
Figure 5 LabSolutions Main window

### Step 4: Set analytical conditions

Click the [Edit Instrument Parameter] button  on the control panel to set the analytical conditions. Download the method to the instrument.

### Step 5: Purge the system

Be sure that no column is installed in the system/ oven. Prepare a suitable solvent without any buffer solutions for purging the flow line of the system. Displace solvents only with miscible

solvents. Click the [Auto Purge] button  to perform auto purge. If [Auto Purge] is not set in the method use the manual purge option by opening the drain valve and pressing the [Purge] button on the instrument.

After purging is done click [Pump on] button  /  to deliver the solvent for at least 20 to 30min to rinse the flow line

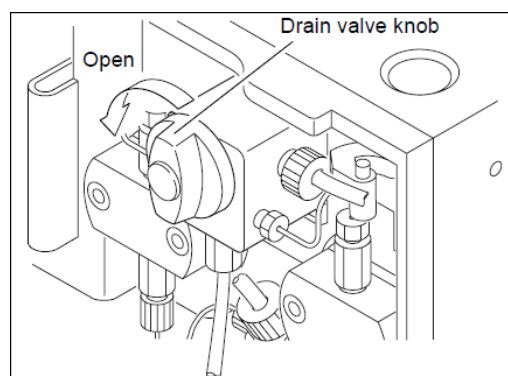
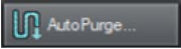
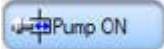



Figure 6 Manual Drain valve

### Step 6: Place mobile phase and rinse solution

Click the [Auto Purge] button  to perform auto purge. If [Auto Purge] is not set in the method use the manual purge option by opening the drain valve and pressing the [Purge] button on the instrument. After purging is done click [Pump on] button  /  to deliver the solvent for at least 20 to 30min to rinse the flow line.

### Step 7: Attach columns

Attach the required column(s) inside the column oven.

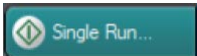
### Step 8: Warm-up and column equilibration

Click the [Startup] icon  to warm up the system.

### Step 9: Place samples

Place sample(s) inside rack and set the rack into the autosampler.

### Step 10: Perform analysis

Click the [Single Run] button  on the control panel to run analysis.

(For batch analysis, use the [Quick Batch] button .).