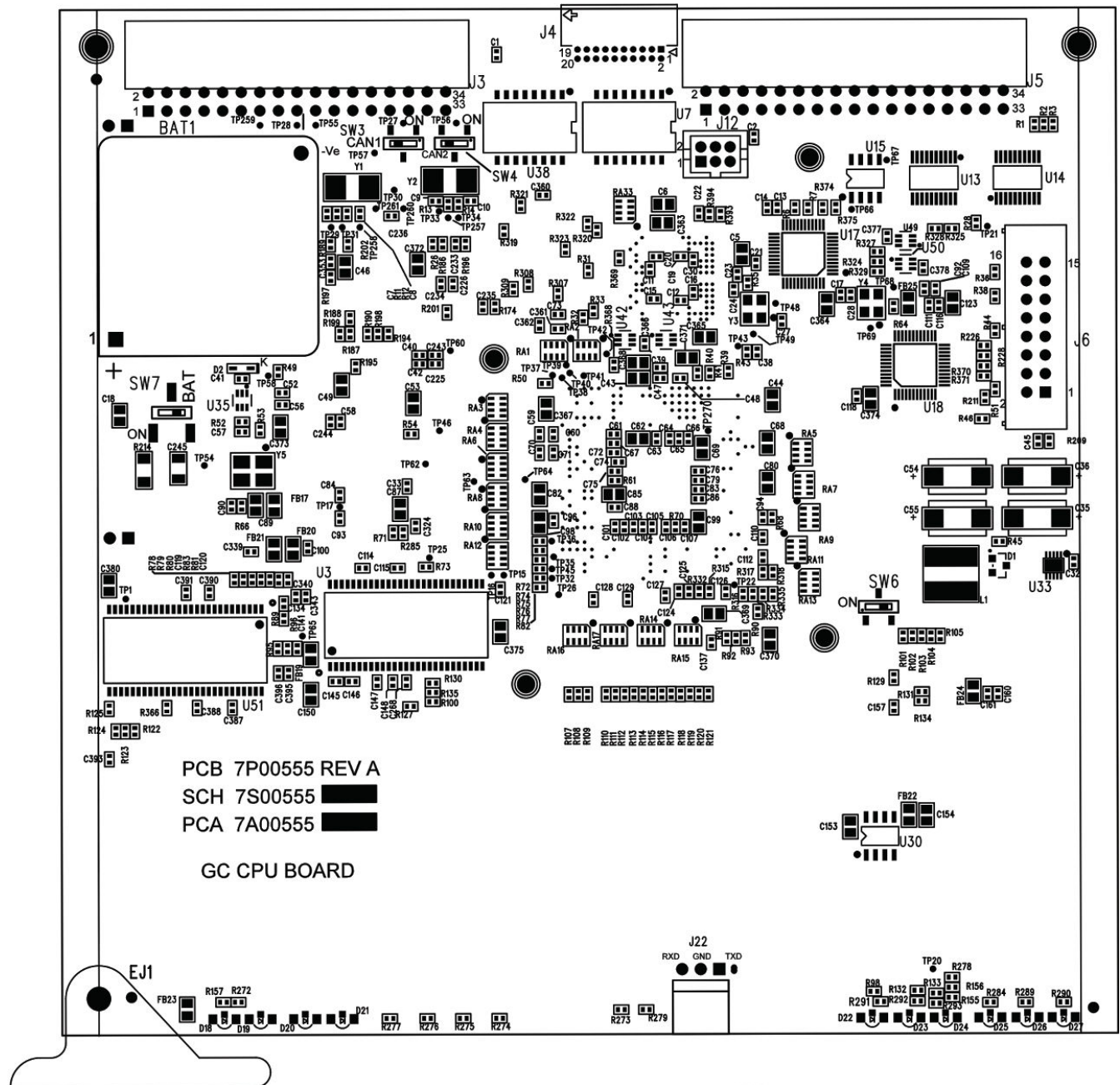


Replace CPU Board

For Rosemount™ Gas Chromatographs



Safety messages

Observe all environmental and personal safety messages described in this document, warning labels on the analyzer, and your company's operational safety requirements.

Rosemount 700XA Gas Chromatograph safety warnings

Observe these safety messages for the Rosemount 700XA Gas Chromatograph.

⚠ WARNING

EXPLOSION HAZARD

Failure to de-energize the analyzer may cause serious injury or death to personnel.

- Do not open when energized or when an explosive atmosphere may be present.
- Keep cover tight while circuits are live.

⚠ WARNING

EXPLOSION/FIRE HAZARD

Failure to observe this warning may cause serious injury or death to personnel.

- Do not open when an explosive atmosphere may be present.
- Do not open while energized.
- Use supply cables or wires suitable for at least 176 °F (80 °C).

⚠ CAUTION

EQUIPMENT DAMAGE

If the GC is heated without carrier flow, damage to the columns may occur.

⚠ WARNING

Physical access

Unauthorized personnel may potentially cause significant damage to and/or misconfiguration of end users' equipment. This could be intentional or unintentional and needs to be protected against.

Physical security is an important part of any security program and fundamental to protecting your system. Restrict physical access by unauthorized personnel to protect end users' assets. This is true for all systems used within the facility.

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1 Replace CPU board

Use this procedure to replace the CPU board in your Rosemount 700XA gas chromatograph and upgrade the firmware. The new CPU may have newer firmware than your old CPU.

Procedure

1. Download the latest version of MON2020 and the latest firmware for your GC at <https://www.emerson.com/en-us/automation/measurement-instrumentation/gas-analysis/gc-software-firmware-downloads>.
Note where you saved the firmware for [Step 15](#).
2. Log into the GC with the old CPU and save the GC configuration file. In MON2020, go to **File** → **Save Configuration**.
If you can no longer log into the old CPU, you may use an older saved application or the factory application.
3. Power down the GC.

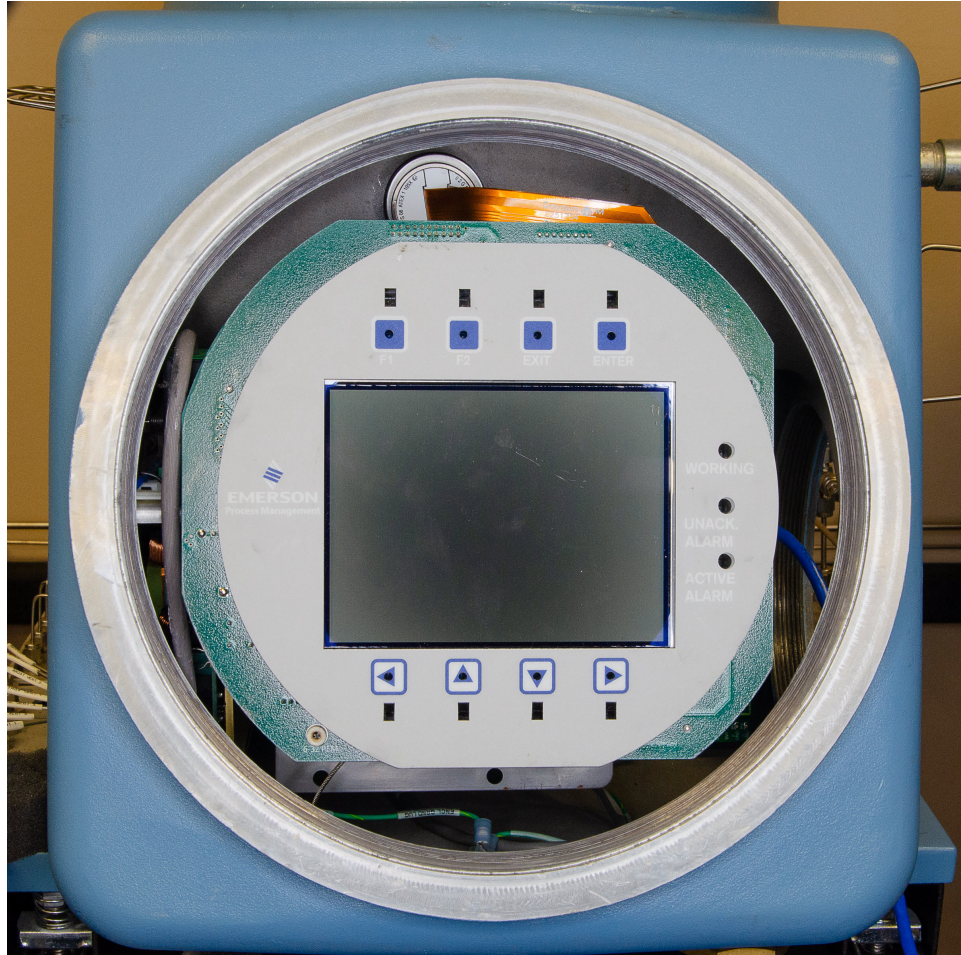
4. Remove the GC's front cover.

Figure 1-1: Removing Front Cover



5. Remove the local operator interface (LOI).

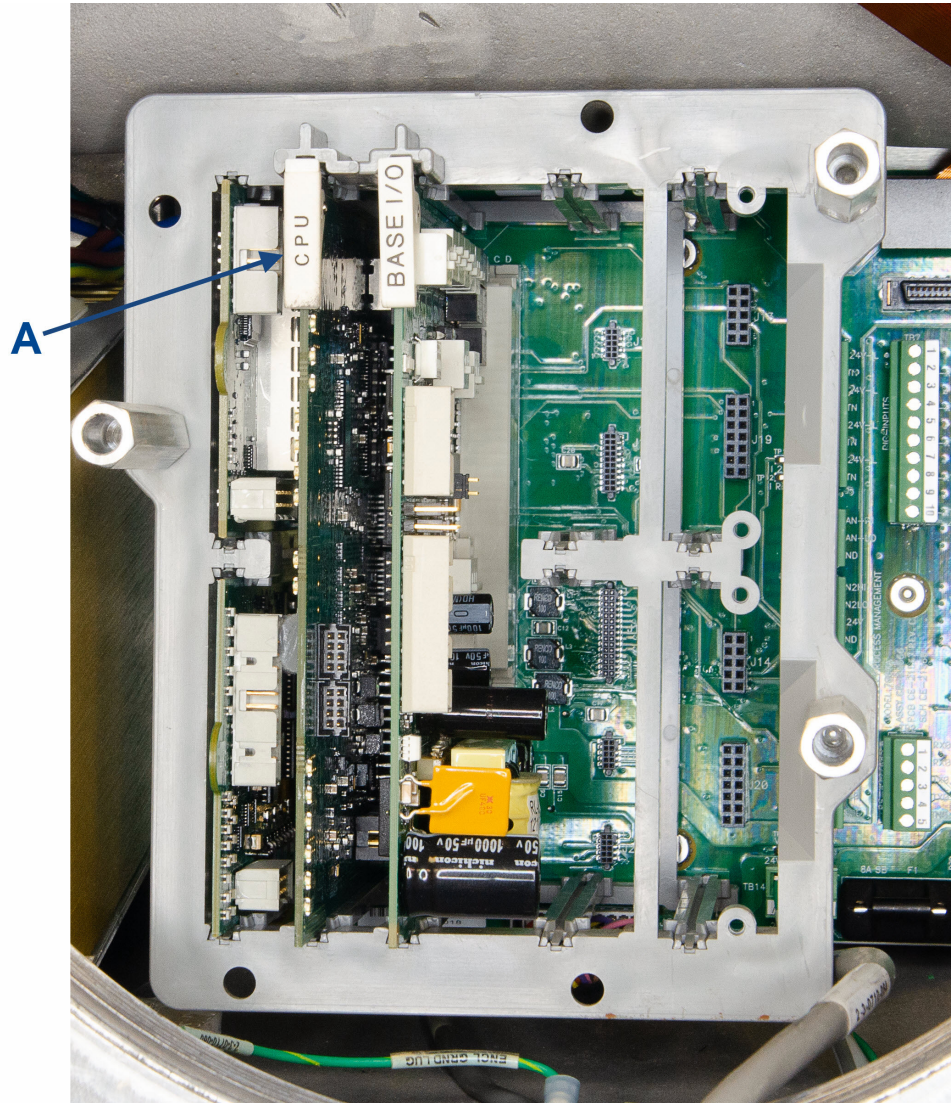
Figure 1-2: Local Operator Interface (LOI)



6. Remove the clear plastic cover that holds the boards in place.

7. Remove the CPU board.

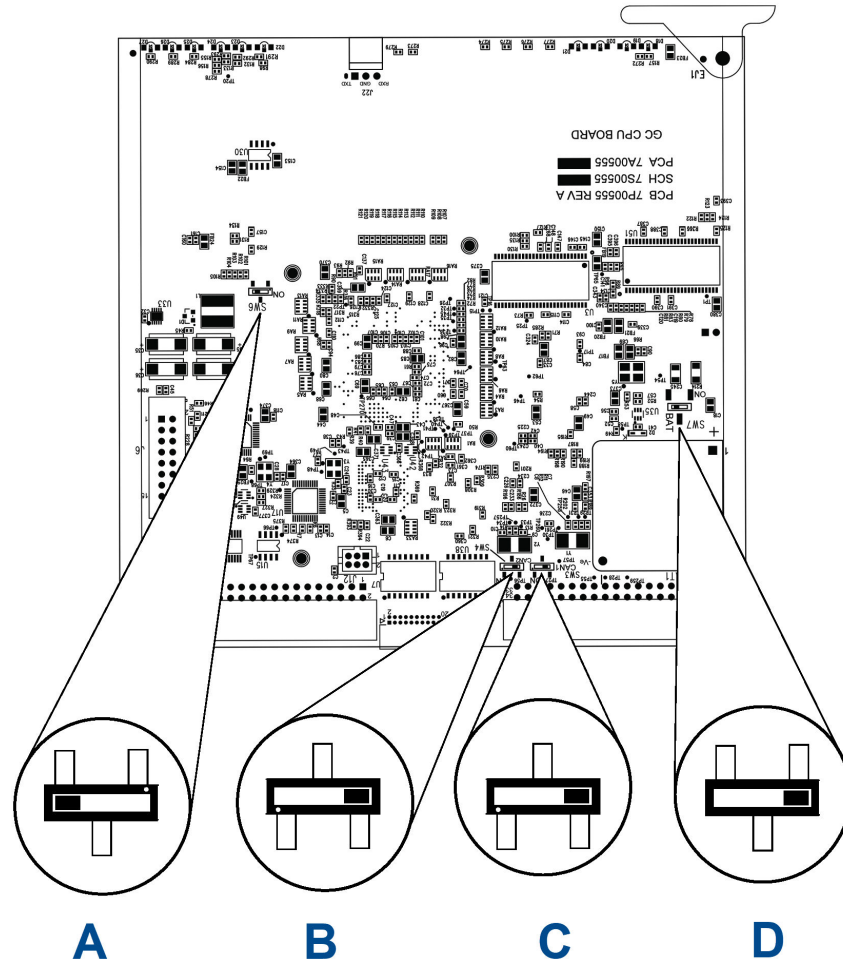
Figure 1-3: Boards



A. CPU board

- On the new CPU board, set the switches as shown in [Figure 1-4](#).

Figure 1-4: CPU Switch Settings



- Turn SW3 OFF (away from the dot).
- Turn SW4 OFF (away from the dot).
- Turn SW6 OFF (away from the dot).
- Turn SW7 ON (towards the dot).

- Install the new CPU board back in the card cage.
Ensure the new board is seated firmly in place.
- Place the clear plastic cover back over the boards.
- Replace the LOI.
- Close the GC cover.
- Power up the GC and connect to it through MON2020.
- In MON2020, go to **Chromatograph** → **View/Set Date Time**. Set the date and time.
- In MON2020, go to **Tools** → **Upgrade Firmware** to upgrade the firmware.

16. In MON2020, go to **Tools** → **Cold Boot**. Cold boot the GC.
The GC will reboot automatically and disconnect from MON2020.
17. After the GC has finished rebooting, reconnect to the GC using MON2020.
18. In MON2020, go to **File** → **Restore Configuration** to restore configuration to the GC.
Use the configuration file you saved in [Step 2](#) or use the last known good configuration.
19. Wait for the heaters to stabilize, and then select **Control** → **Auto Sequence**.
20. Validate the GC.

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