



# User and Visualization Units CTA10 and CTA10.1

Service guidelines

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# 1 Replacing Firmware

## 1.1 General Information

These service guidelines have been generated to simplify and expedite an Eprom exchange.

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<b>Note:</b>	This service guideline applies to hardware versions:
	CTA10.1B-000-FW SN 262474-xxxxx A00-A02
	CTA10.1B-001-FW SN 267591-xxxxx A00-A02

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## 1.2 Dismantling the CTA10

- Turn the power to the CTA10 off!
- Pull all plugs out.
- The CTA10 is mounted using six (6) press-fit bolts (see Fig. 1) into, for example, a user panel or a control cabinet door. The six (6) M4 nuts must be removed and the CTA placed onto a clean surface so as not to damage the membrane keyboard.
- Remove the four (4) Phillips head screws of the lid (see Fig. 1).
- The next step is to remove the two (2) screws and the four (4) spacing bolts SW 5.5 on the printed circuit board, (see Fig. 2).



**Attention**

**Remove the flat-ribbon cable carefully from the PCB.**

⇒ Please note the following guideline.

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A suitable pair of pliers with rounded edges may be used but the cable may not be kinked!

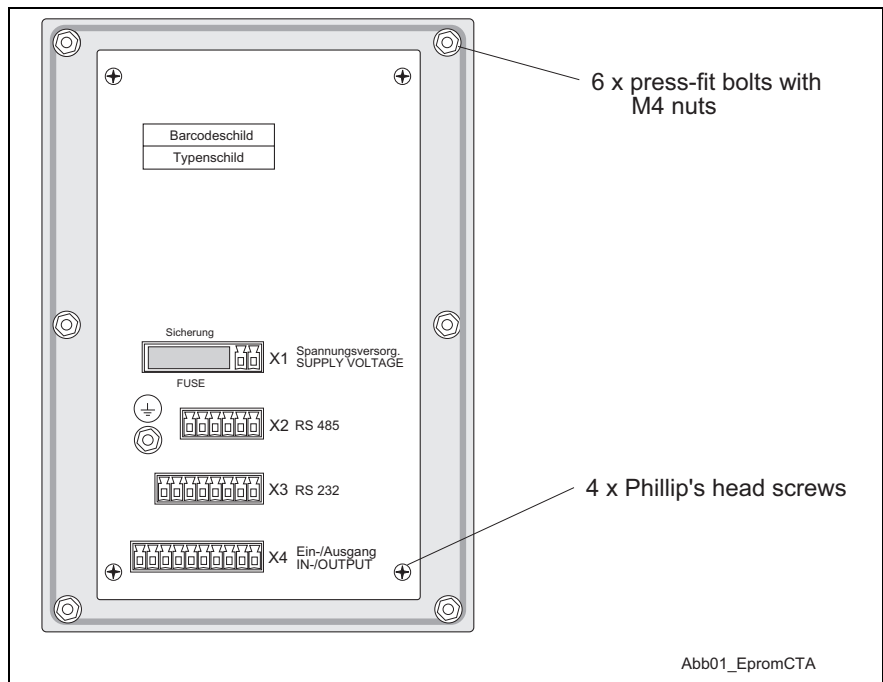


Fig. 0-1: CTA10 Backside of the cover closed

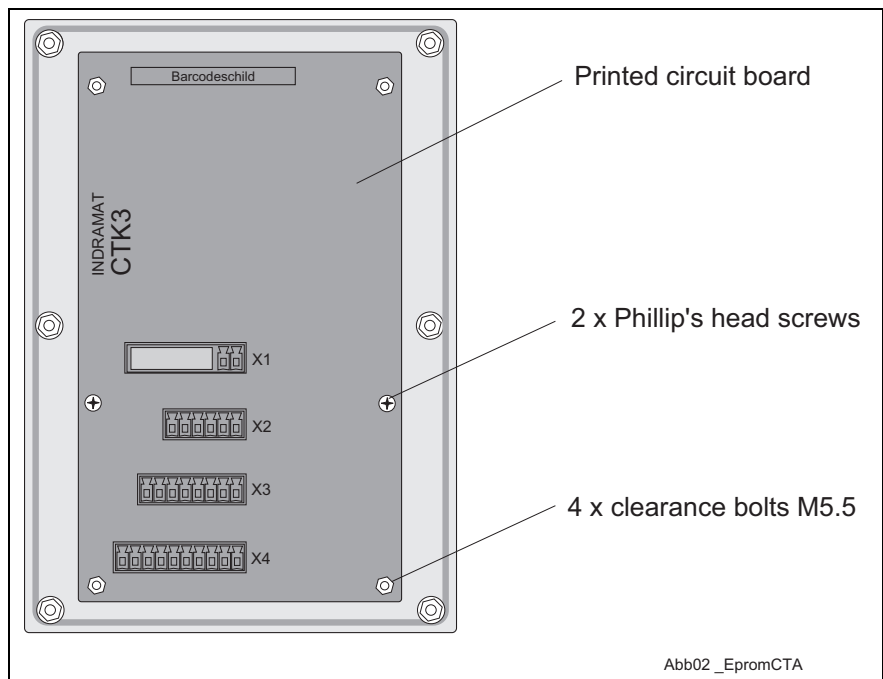


Fig. 0-2: CTA10 Backside of cover open

## 1.3 Replacing the Firmware

- Remove the Eprom using an Eprom plier.
- Mount the new Eprom with the correct firmware. Check the Eprom plate. Indent the Eproms (pin1) directional display.
- Visually check the Eprom legs to make sure that they are sitting correctly.

## 1.4 The Structure of the CTA10

- Insert the flat-ribbon cable with the membranch keyboard into connector XI7.
- Mount CTA. The flat-ribbon cable may not be kinked or pinched! Using a pencil or something similar route the flat-ribbon cable of the membrane keyboard into a loop (see Fig. 3).



**Attention**

**The flat-ribbon cable may not be kinked or clamped.**

⇒ Note the following guidelines.

- If the flat ribbon cable is kinked then the keyboard will in all probability fail at some point!
- Mount PCB with screws and bolts (see Fig. 2).
- Screw lid back on (see Fig. 1).
- Mount CTA10.
- Remount connector and ground connection back onto CTA10.
- Switch power back on and run a quick check, e.g., by querying various diagnoses or operating states.

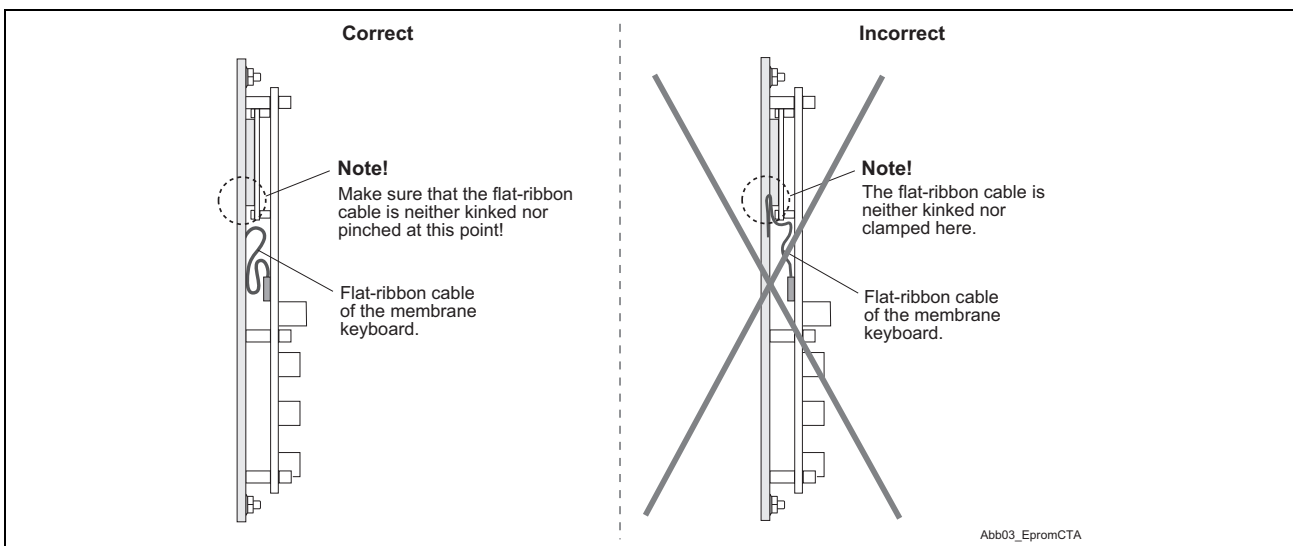


Fig. 0-3: Mounting guidelines when replacing the Eprom

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