

TouchDrive Panel Modules

The modules in the TouchDrive control panels (4882AR Series Only) can be replaced.



Important: Do not swap the locations of modules in the control panel unless instructed to do so by Ross Video Technical Support.

To replace a module in the control panel you will need the following tools:

- Set of Module Extraction Tools located in the Desk Mounting Kit of your control panel.
- Torx® T10 screwdriver.

To Remove a Module

To remove a module you must use the Module Extraction Tools mounted on the bottom of the control panel to extract the module from the panel and then remove the cables attached to the bottom of the module. Only remove a single module at a time to ensure the proper cables are connected.



Warning Hazardous Voltages: Hazardous voltages are present in this device as long as any of the power supplies are connected to the AC power.



ESD Susceptibility: Static discharge can cause serious damage to sensitive semiconductor devices. Avoid handling the circuit boards in high static environments such as carpeted areas and when synthetic fiber clothing is worn. Touch the metal frame to dissipate static charge before removing boards and exercise proper grounding precautions when working on circuit boards.



Important: Do not touch the ribbon cables located on the bottom of the module. These ribbon cables are very delicate and the latches that secure them can easily be opened. If the latch is opened the ribbon cable will lose electrical connection and the module will not work properly.

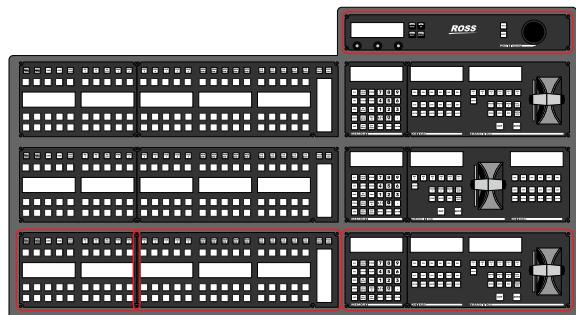
1. Power off the control panel and disconnect the all power connections.
2. Locate the set of **Module Extraction Tools** that came in the Desk Mounting Kit of your control panel.



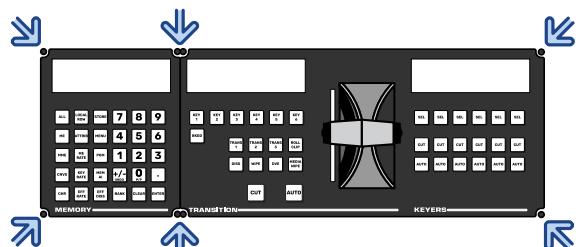
Tip: If you cannot locate the Module Extraction Tools, a #8-32UNC bolt can be used instead.

3. Locate the module that you need to remove.

Note: The Memory and Transition modules are connected and must be removed as one. Do not attempt to remove one of these modules independent of the other one.



4. Use a Torx® T10 screwdriver to remove the screws securing the module into the panel.

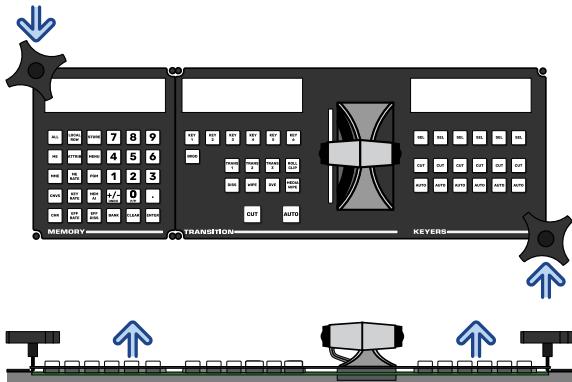


5. Screw the **Module Extraction Tool** into the holes at either end of the module to unseat it from the panel.



Notice: Only insert the **Module Extraction Tool** a couple turns into the holes on the module. Screwing the **Module Extraction Tool** too far into the holes can bind the circuit board and damage the module.

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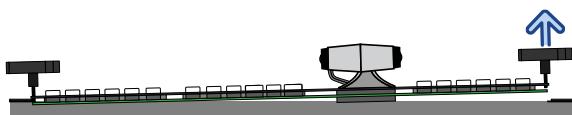


6. Use the **Module Extraction Tool** to lift the module slowly until you feel some resistance. The metal top of the module should just clear the surface of the panel.
7. Shift the module slightly to the left or right, depending on the type of module you are removing.

	If you are removing this module, shift the module slightly to the <i>right</i> . The metal top of the module should just slightly overlap the surface of the panel.
	If you are removing this module, shift the module slightly to the <i>left</i> . The metal top of the module should just slightly overlap the surface of the panel.



8. Lift up on the opposite side of the module to pivot that end up until the circuit board is clear of the panel surface.



9. Shift the module back so that it is free of the panel surface and pivot the module away from you until you can access the cables connected to the bottom of the module.

10. Remove the cables from the bottom of the module and place the module on a clean, dry, static-free surface.

To Install a Module



Warning Hazardous Voltages: Hazardous voltages are present in this device as long as any of the power supplies are connected to the AC power.



ESD Susceptibility: Static discharge can cause serious damage to sensitive semiconductor devices. Avoid handling the circuit boards in high static environments such as carpeted areas and when synthetic fiber clothing is worn. Touch the metal frame to dissipate static charge before removing boards and exercise proper grounding precautions when working on circuit boards.



Important: Do not touch the ribbon cables located on the bottom of the module. These ribbon cables are very delicate and the latches that secure them can easily be opened. If the latch is opened the ribbon cable will lose electrical connection and the module will not work properly.

1. Power off the control panel and disconnect the all power connections.
2. Screw the **Module Extraction Tool** into the holes at either end of the module.



Notice: Only insert the **Module Extraction Tool** a couple turns into the holes on the module. Screwing the **Module Extraction Tool** too far into the holes can bind the circuit board and damage the module.

3. Identify the power and communications cables for the module you are installing.

	Two-wire power connector. Depending on the location of the module in the panel, this connector may be on the end of the power cable, or at some intermediate location.
	Standard RJ45, network connector. Depending on the location of the module in the panel, the cable may be connected directly to the Panel Communications Hub (PCH), or to the Panel Module Controller (PMC) on the module next to it.

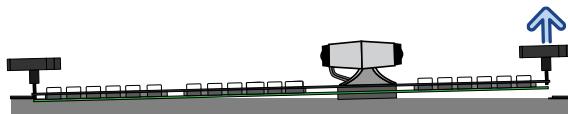
4. Connect the power cable to the 2-pin connector on the bottom of the module.



Notice: The power connector is designed to fit onto the 2-pin receptacle on the module in one way, but it can't be forced on incorrectly. Ensure that the two tabs on one side of the connector align to either side of the latch on the receptacle.

5. Connect the communications cable into the **PREV** port on the module.
6. Slowly angle the module into the opening in the control panel, depending on the type of module you are installing.

	If you are installing this module, shift the module slightly to the <i>right</i> . The metal top of the module should just slightly overlap the surface of the panel.
	If you are installing this module, shift the module slightly to the <i>left</i> . The metal top of the module should just slightly overlap the surface of the panel.



7. Lower the opposite end of the module into the opening. You may have to shift the module over more or less to get the opposite end to fit into the opening.
8. Seat the module into the opening and remove the **Module Extraction Tool**.
9. Use a Torx® T10 screwdriver to install the screws securing the module into the panel.