



# TECH NOTE

VICON TECHNICAL SERVICES GROUP

**Subject:** V1344SCPU-HDA Replacement Procedure  
**Product:** V1344SCPU-HDA  
**Number:** 1400-0001-91-00  
**Date:** 1/13/06

## V1344SCPU-HDA and Power Supply Replacement Procedure

The purpose of this Technical Note is to provide circuit card removal and installation guidance unavailable in other documents.

Prior to the removal of the existing CPU card you may want to back up the programming within the CPU. Please refer to Tech Note 1400-0001-12-01, Saving Memory Image Files (available at: [www.vicon-cctv.com](http://www.vicon-cctv.com), Support -> Programmable Controls and Matrix Switching Systems -> Matrix44 -> Technical Notes and Advisories).

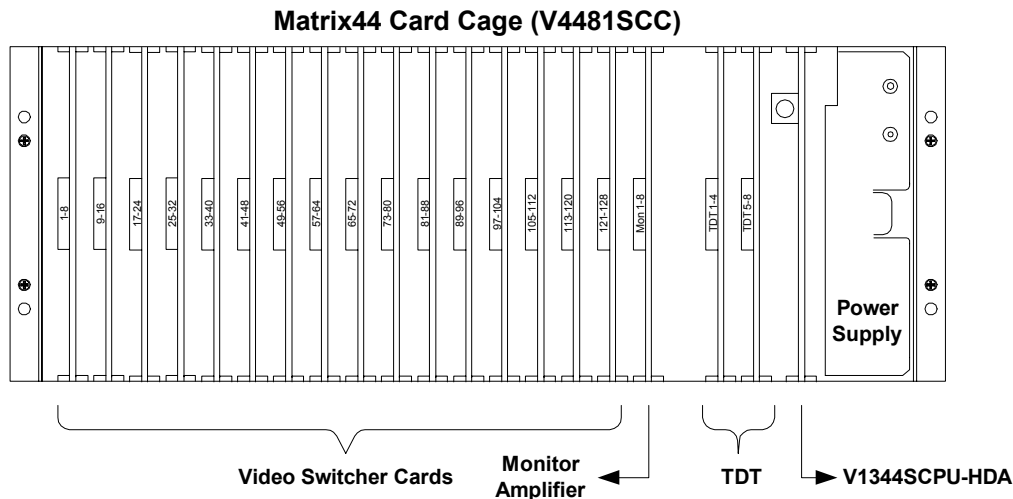
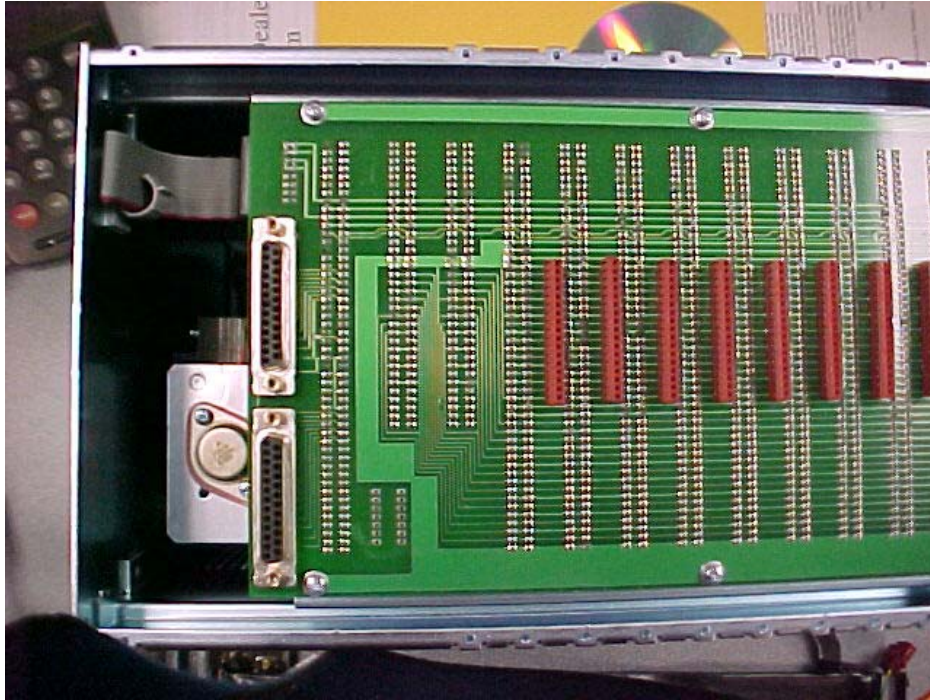
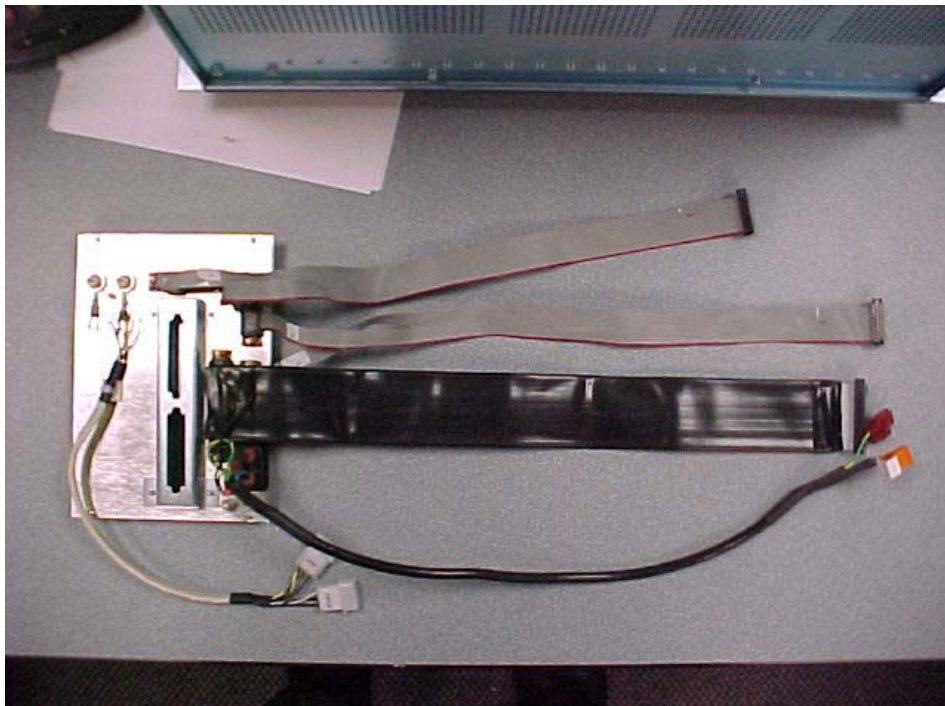


Figure 1

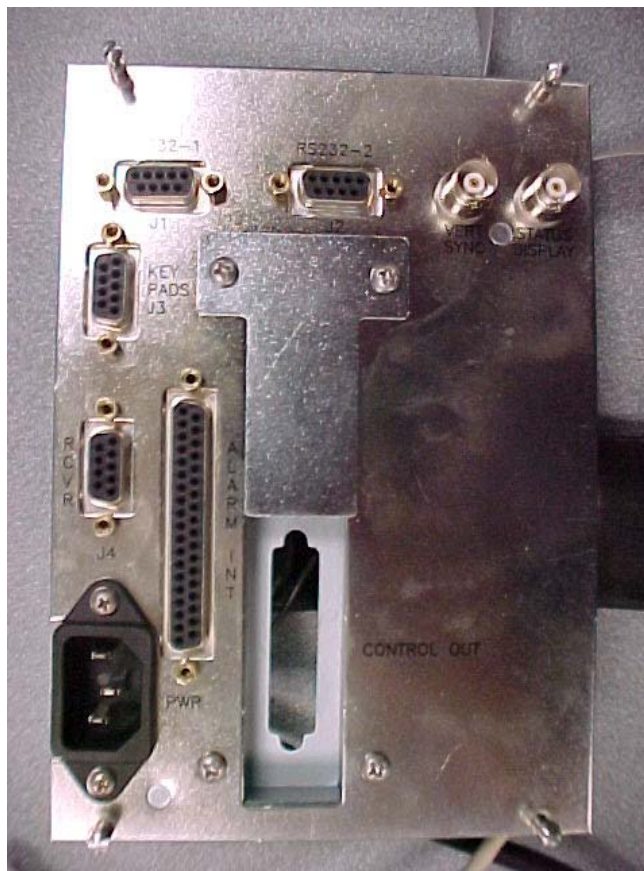
1. Turn off the power to the card cage and remove the AC power cord from the rear of the unit.
2. Removal of the CPU card is easier if the adjacent circuit cards are removed. Remove both Time-Date-Title (TDT) cards, the Monitor Amplifier card and as many Video Switcher cards as necessary.
3. Slide the CPU card out 1-2 inches to gain access to the ribbon cables connected to the front of the card.
  - Mark the ribbon cables as Top and Middle, or 1 and 2, so that they can be returned to the correct positions after CPU installation.
4. Remove all three-ribbon cables and slide the card out a few more inches to gain access to the two Molex™ connectors in the rear. These connectors connect the Status Display Output and Vertical Sync Input rear panel BNC connectors to the CPU card. (See Figures 5 & 7)
5. If the cabling or the rear panel assembly is not suspected to be bad, the reverse procedure should be followed to install the new CPU card, taking care to connect the ribbon cables to their proper connector.
6. If the ribbon cables or the rear panel needs to be replaced, remove the existing rear panel and replace it with the one supplied with the V1344SCPU-HDA. (see Figure 3)
7. **NOTE:** Make sure that the new rear panel is configured for the voltage used at this installation. (See Figure 6 and steps 8 & 9)



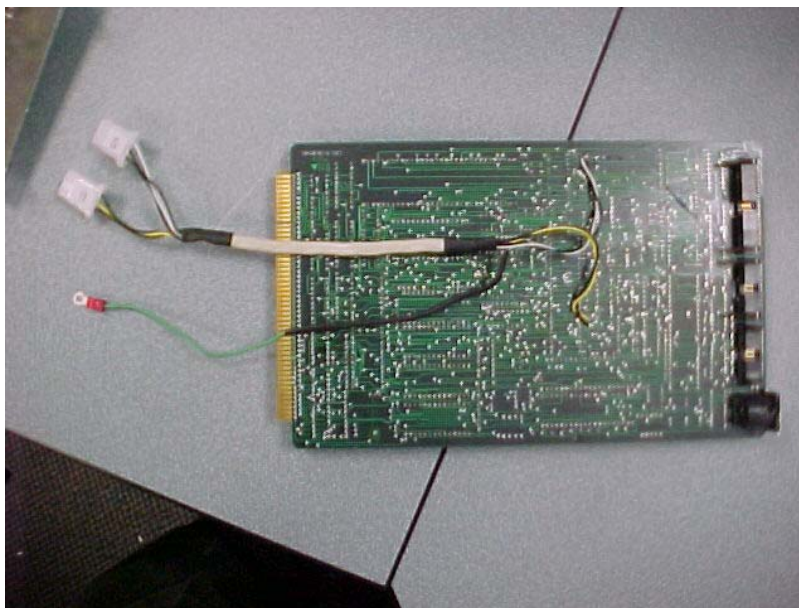
**Figure 2**  
**Rear View of V4481SCC-HD with CPU Rear Panel Removed**



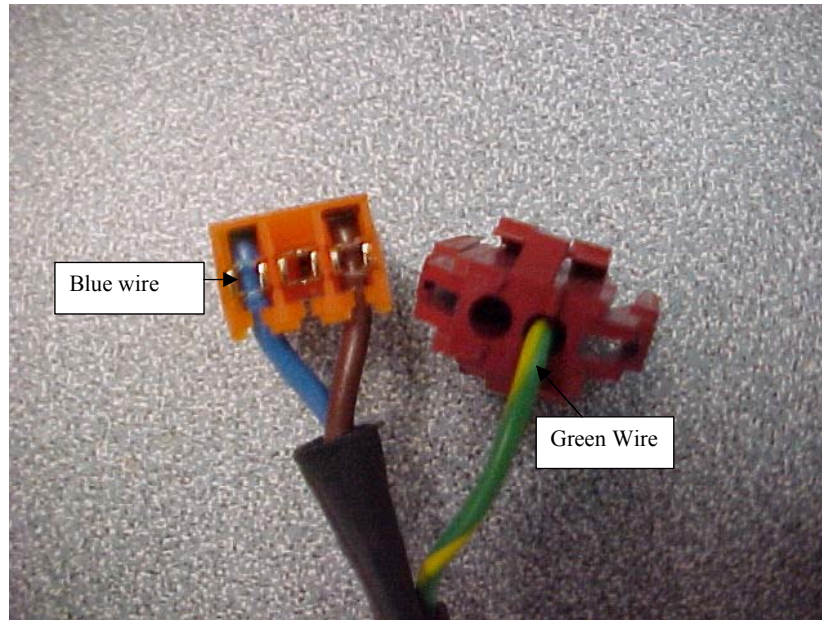
**Figure 3**  
**V1344SCPU-HDA Rear Panel Interconnect Plate**



**Figure 4**  
**V1344SCPU-HDA Rear Panel**

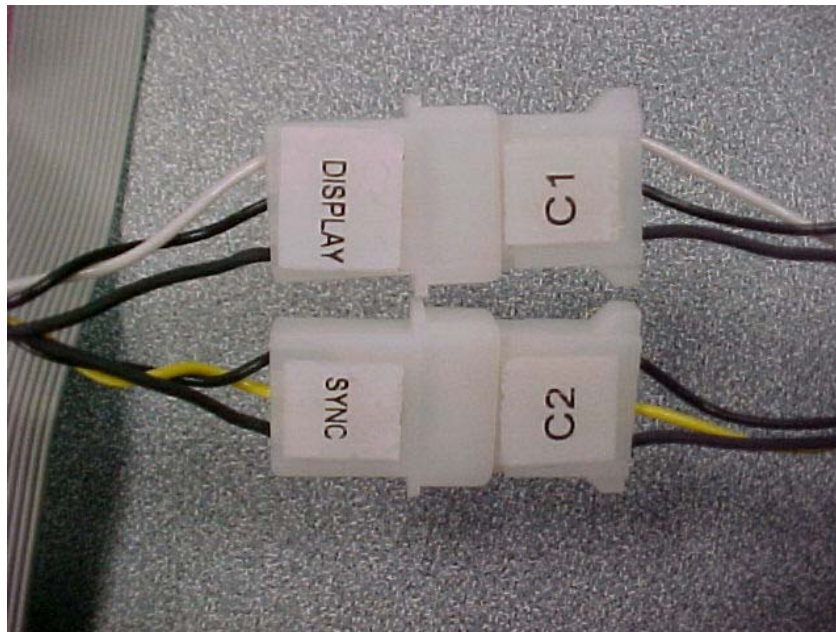


**Figure 5**  
**Rear view of V1344SCPU-HDA circuit board showing Display, Sync, and Ground Cables**



**Figure 6**

8. The rear panel for the V1344SCPU-HAD has a cable from the power connector to two connectors. This is for 230 VAC (European power). The unit is not shipped for 115VAC (US) power.
9. To use the rear panel for 115 VAC you must rewire the connectors.
  - a. Cut the Yellow-Green wire from the 2-pin connector.
  - b. On the 3-pin connector, move the Blue wire to the center pin.
  - c. Insert the Yellow-Green wire into the 3-pin connector where the Blue previously was installed.



**Figure 7**

**Close-up of the Molex Connectors for the Sync and Status Display**