

TECHNICAL BULLETIN

Ikegami

37 Brook Avenue, Maywood, New Jersey 07607 • (201) 368-9171

Date: 6/26/12
Engineer: Alan Keil
Page: 1 of 3

To: Distribution

Product: HDK-77EC/79EC

Symptom: To reduce overall power consumption the EC-series cameras provide regulated 12VDC to the viewfinder and lens. Sometimes hot swapping a lens will cause a high rush current, and damage the voltage regulator for the lens and viewfinder power. This in turn shuts down all voltage outputs from the Camera Power board.

Purpose: Bypass the voltage regulator in the camera head and provide unregulated 12VDC to the lens. Note: the lenses have their own regulators and accept unregulated 12VDC.
Regulated voltage is still provided to the viewfinder which is required.

Instruction:

- 1) Remove optical block.
 - a) Remove side covers, remove lens, remove viewfinder
 - b) Remove 6 black screws in heat sink covering D.Proc board, then remove 4 silver corner screws, and take off heat sink (see figure 1)
 - c) Release flat cable at front of D.Proc, release harness at top of J-board
 - d) Release 2 flat cables and 2 standard cables at opposite side of optical block
 - e) Remove 4 large corner screws at front, partially pull out block, release harness at center rear, then fully remove the block
- 2) Remove 4 modules from card frame (note coax going to HS Conv board).
- 3) Remove 3 shield plates and 2 end plates from card frame (see figure 2).
- 4) Remove all 3 Switch Panels (left, right, and front).
- 5) Remove Switch J-board.
- 6) Cut clad on Switch J-board (see figure 3).
- 7) Add jumper wire from CN104 pins AB3&4 on System-1 board to R112 on Switch J-board. Note: suggest using a pair of #24 gauge wires with in-line connector (see figures 4 & 5). Run under card frame making sure the wires do not come out the bottom of the camera.
- 8) Re-install units in reverse order as described in steps 1-5 above.

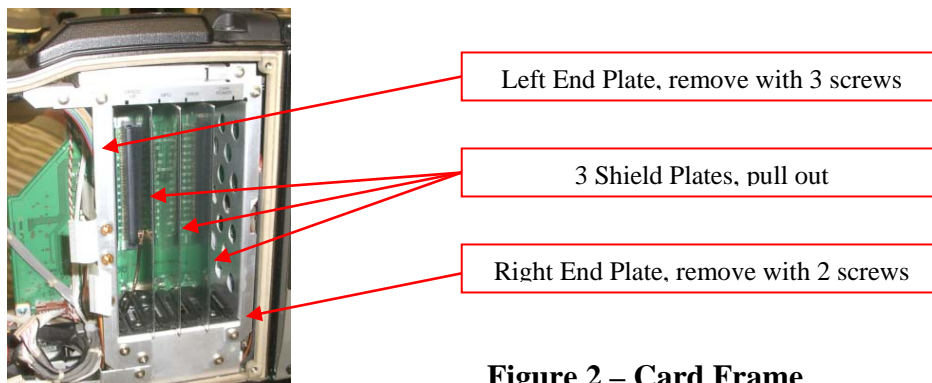
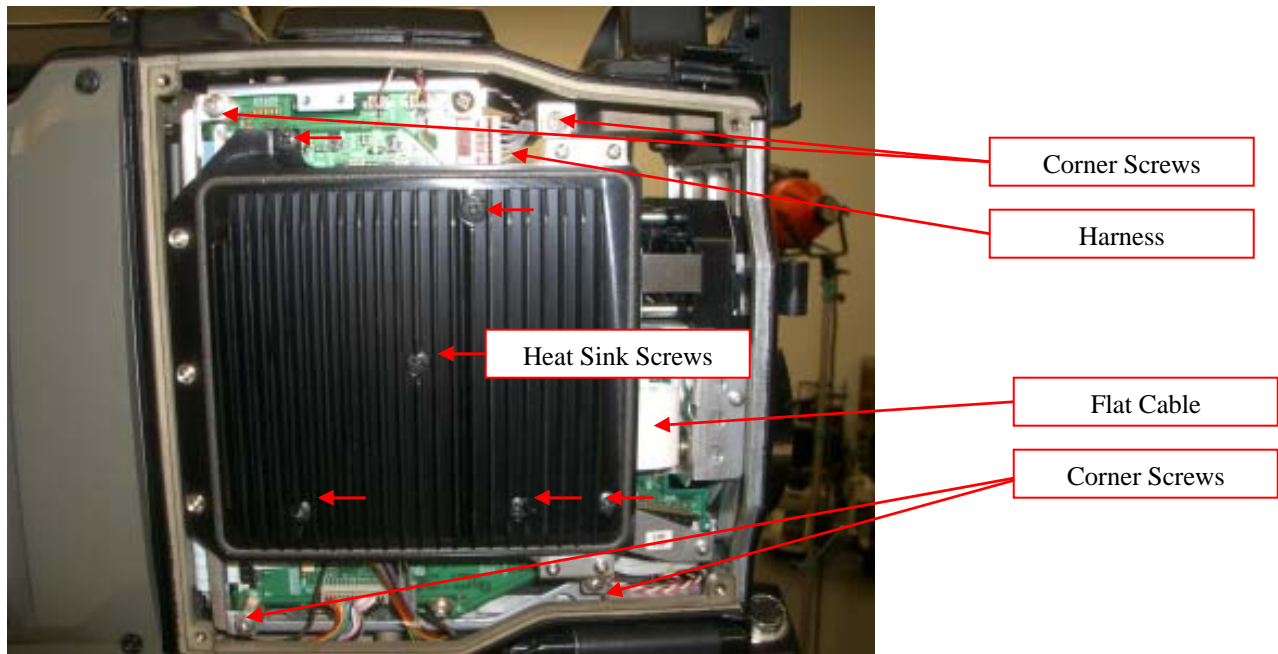
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- Notes:
- 1) Installation of Switch boards is blind, install Front Switch first, then hold Switch J-board level while mounting either Left or Right Switch board, then carefully install the final board.
 - 2) Be sure lower fan spins freely after installing the Switch boards.
 - 3) Check all flat cables to make sure they are square and fully seated.

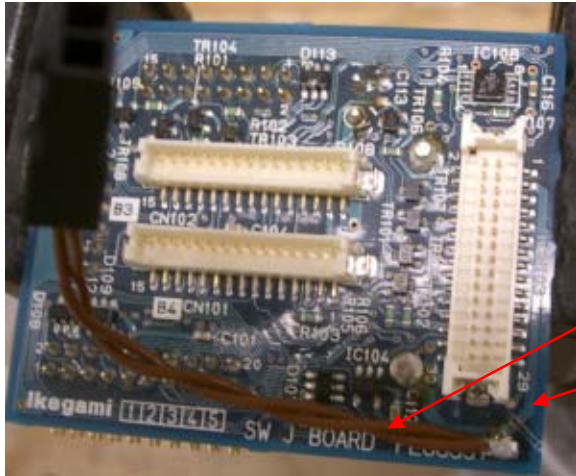


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Jumper for unregulated 12VDC

Cut clad to bypass regulated 12VDC

Figure 3 – Switch J-board



Jumper for unregulated 12VDC

Figure 4 – System-1 board



Jumper for unregulated 12VDC
Note: in-line connector

Figure 5 – Switch board location