

Field Modification Note

075069300

REFERENCE ECO: 664H EFFECTIVITY DATE: JUNE 2002

ZODIAK DUAL MIX EFFECTS MODULE 671-6347-00/10

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Software Downloads — Software updates, drivers, and patches can be downloaded.

FMN 075069300

Zodiak Dual Mix Effects Modules Assembly Numbers: 671-6347-00/10

Purpose

This field modification provides instructions for installing self-adhesive heat sinks on several FPGA ICs on the Zodiak Dual Mix Effects modules. With the release of Zodiak software version 2.1 and later, power to several of the module FPGA ICs has increased creating the need for heat sinks to be added to the ICs for proper cooling.

Two versions of the Dual Mix Effects modules are affected by this change, the 671-6347-00 (M/E 1 and M/E 2) and the 671-6347-10 (M/E 3 on 3-M/E systems only). Two different sizes of heat sinks are provided. You should receive enough heat sinks to cover both modules even if they are not needed. The heat sinks are self-adhesive and simple to install.

Parts List

The parts provided for this modification are listed in Table 1.

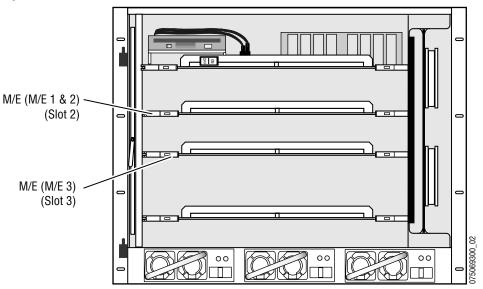
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Part Number	Description	Quantity
214-4986-00	Heat Sink, 1.0 X 1.01 (U54, U55, U66, U67)	6
214-4987-00	Heat Sink, 1.6 X 1.61 (U12, U13, U45, U46)	6

Table 1. Parts List for FMN 075069300

Instructions

- **1.** Locate the Dual Keyer modules in Slot 2 of the Zodiak Video Processor frame in both 2.5-M/E and 3-M/E systems and Slot 3 in 3-M/E systems (Figure 1).
- **2.** Remove them from the frame. The modules can be removed with the frame powered up.

Figure 1. Zodiak Video Processor Frame



3. Confirm that the assembly number of the module is a 671-6347-00 or -10 version, letter version E1 or earlier. Modules inked as -00 F1 or -10 F1 or later have already been modified at the factory.

The assembly number is silkscreened on the component side of the circuit board as illustrated in Figure 2 on page 5. The dash and letter version is inked in the white box to the right of the assembly number.

- **CAUTION** The ICs on this module may be quite hot when the module is first removed from the frame. Let the module cool if necessary before proceeding.
- **4**. On the module from Slot 2 (2.5-M/E and 3-M/E systems):
 - **a.** Locate ICs U12, U13, U45, and U46 highlighted in Figure 2.
 - **b.** Install one of the four larger sized heat sinks on the top of each of these ICs by removing the protective backing from the heat sink and pressing it firmly onto the IC.
 - **c.** Locate ICs U54, U55, U66, and U67 highlighted in Figure 2.
 - **d.** Install one of the four smaller sized heat sinks on the top of each of these ICs by removing the protective backing from the heat sink and pressing it firmly onto the IC.
- **Note** For 2.5-M/E systems there will be four extra heat sinks as there is no M/E 3 module. Keep these for spares.
- **5**. On the module from Slot 3 (3-M/E systems only):
 - **a.** Locate ICs U13 and U46 highlighted in Figure 2.
 - **b.** Install one of the four larger sized heat sinks on the top of each of these ICs by removing the protective backing from the heat sink and pressing it firmly onto the IC.

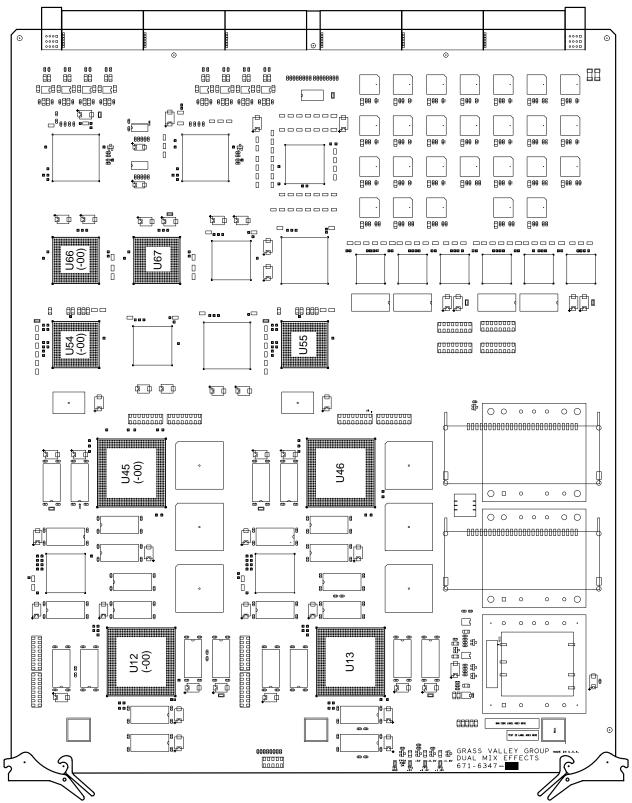


Figure 2. Dual Mix Effects Module Component Layout

- **c.** Locate ICs U55 and U67 highlighted in Figure 2.
- **d.** Install one of the four smaller sized heat sinks on the top of each of these ICs by removing the protective backing from the heat sink and pressing it firmly onto the IC.
- **6.** Plug each module back into its original location in the Video Processor frame. This can be done while the frame is powered up.

This completes the necessary modifications. You may now load the latest version of Zodiak software (v2.1 or later).



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