

April 8, 1992.

Dear Foreign Distributors,

Here is a list of MP-1 updates to perform on the earlier versions of the unit. You'll find that most units have most or all of the updates below as a part of the PCB already. Carefully check to make sure you're not making redundant updates.

- * If R251 is 27k, then remove it and add a 3.3k resistor between U40 pin 11 & U44 pin 12 on the component side of PCB. Later units will already have the 3.3k resistor (designated R251), to the left of U40.
- * Make sure all 10 rectifier diodes are 1N4007's.
- * Make sure that: D41 is 1N750A.
 - R248 is 270 ohms.
 - R249 is 120 ohms.
 - Q24 is a 2907 (must be plastic package).
 - R215 is 24k.
 - R162 is 62k.
- * Change filter caps on the tube board (C1, C2, & C8) to 10uF/450V.
- * Make sure FETs in the signal path & cathode bypass are 2SK364's.
- * Make sure the FET's for the tube board voltage supply (Q1 & Q2) are A92's.
- * Make sure the opto-isolators are Vactecs, not Zeta IC chips.
- * If connectors Ke & Kd have a middle wire (redundant ground), then the middle wires on all four connectors have to be cut and twisted around the other two wires (Kb, Kc, Kd, & Ke). Then, run a ground wire from Kc on the MIDI I/O board to the ground at the power supply of the main PCB.
- * Cut the trace going to U29 pin 17 and jumper from pin 17 to pin 24.
- * Cut the trace from U14 pin 12 to pin 16 & add a 200 ohm resistor instead.
- * Make sure the input jack is isolated from the chassis.
- * Wires F, N, & H from the tube board should be shielded cables with the shield grounded on one end.

* Fish paper on Xfms

Troubleshooting Tips:

- Dead units are usually due to the crystal or C136 (.047 in reset α kt).
- Extremely noisy MF-1's are usually FET's (must be 2SK364) in the signal path, tube cathode by-pass.
- No MIDI usually means that the 8017 is bad on the MIDI I/O board.
- Low gain in the first signal section before DD-1... thoroughly clean the PCB in the area near the LF412. This problem is thermal.

Sincerely,



ADA Customer Service Dept.



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