REF No 017

COMPANY STATEMENT

PRODUCT AFFECTED: **YJM100 - DFX PCB p/n PCBS-00039-00**

Marshall Amplification PLC has produced a modification that should be applied to the YJM100 DFX PCB. PCBS-00039-00, should IC5 fail. The symptoms of this failure can vary, but usually, low or distorted volume, and the GATE threshold control acting as a gain control will indicate IC5 failure. If the DFX PCB has no fault, this modification is not required.

The following steps will enable a service centre to repair and modify the DFX PCB locally.

ATTENTION:- OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.

ITEMS REQUIRED.

1. Replacement IC5 - RC4558 – SOIC-8 (Marshall Stock No. ICXX-00087)
2. Replacement C4 - 100 nF 63V (Marshall Stock No. CAPR-10083)
3. New Resistor - 10Kohm 0.6W 1% Metal Film (Marshall Stock No. RESA-10048)
4. New Diode - 1N4148 (Marshall Stock No. DIOD-10018)

   Note that the above components are provided as KITS- 00180
5. Small soldering iron tip and solder, suitable for working with a surface mount IC pins.

PROCEDURE.

1. Ensure amplifier is switched OFF. Remove the DFX PCB.
2. Carefully desolder the faulty IC5, clean any old solder from the pads, and solder the new IC in place. Great care must be taken to avoid solder bridges between legs.
3. Remove C4 and discard. Remove all solder from the holes in the PCB.
4. Take the new C4 and Resistor and bend the legs as shown below in Fig 1.

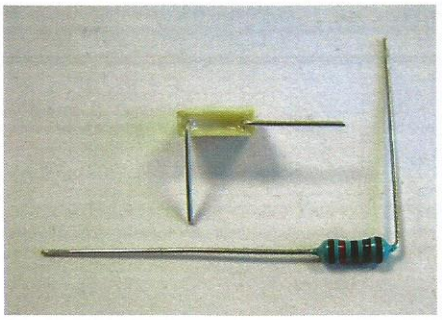

Figure 1 - Preparing legs.

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5. Insert both components into the original C4 holes as shown in Figure 2. Note that the capacitor is nearer the edge of the PCB.

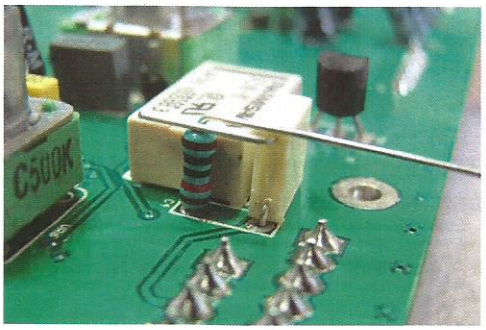

Figure 2 – Orientation.

6. Solder the resistor and capacitor together, and crop excess wire. Then solder the legs on the PCB surface-mount side. See Figure 3.

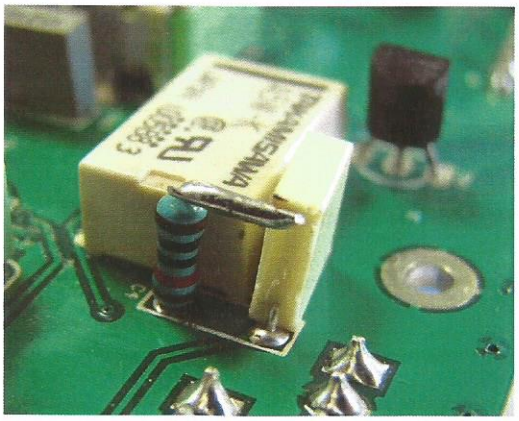

Figure 3

7. Take the 1N4148 diode and bend and crop the legs as shown in Figure 4.

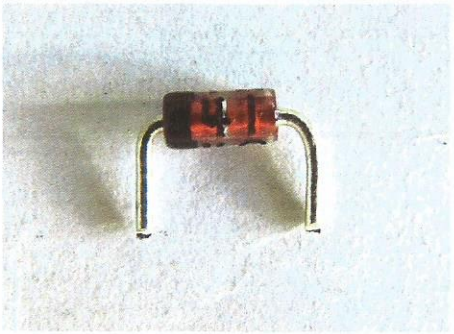

Figure 4

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7. Solder the diode as shown in Figure 5. Note that the Cathode (Band) is soldered to IC5 pin 8, and the Anode is soldered to the leg of the new resistor at the PCB surface-mount side pad. This pad is connected by track to R30 and IC5 pin 5.

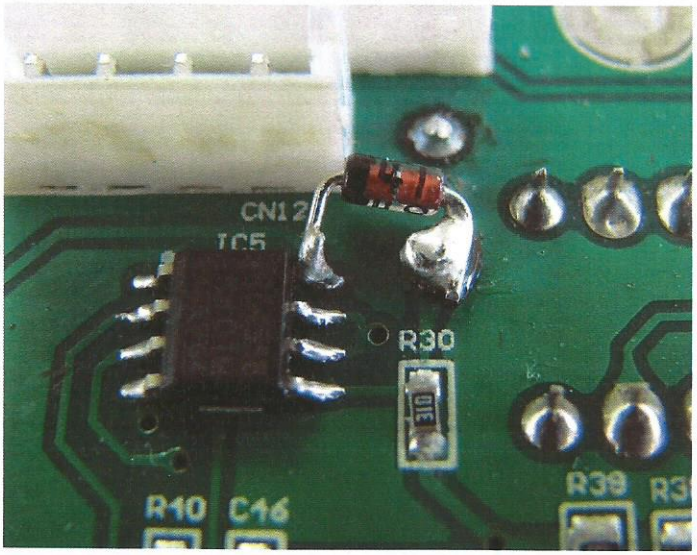

Figure 5 – Connection of the diode.

8. The DFX assembly is now ready for refitting to the amplifier and testing.

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