fairlight **ENGINEERING CHANGE NOTE:** mfx3

ECN #:   371

ASSEMBLY: AMR1962   **DESCRIPTION:** MW4-MR1 Merlin Console Assembly

New Assembly: **DATE:** 06/06/00

Current Assy Rev: A   **Current Schematic Rev:**

New Assy Rev: B   **New Schematic Rev:**

○ **CMS BOMs Updated**   ○ **Excel BOMs Updated**   ○ **Subcontractor Records Updated**   **Compatibility Maintained:** Yes

IMPLEMENTATION INFORMATION:

○ **Safety Issue**   ○ **UL Compliance Issue**   ○ **New Feature**   ○ **Cost Reduction**

○ **Bug Fix**   ◉ **EMC Compliance Issue**   ○ **Quality Issue**

○ **Reliability Reasons**   ○ **Software Change**   ○ **Cosmetic Change**

REASON FOR CHANGE:

Reduce electronic emissions to bring the Merlin console in line with international EMC requirements.

DETAILS OF CHANGE:

1. Ensure the MFX-010 PCB is Rev N or higher.

2. Add ferrite to mains input wiring at the back of the IEC inlet. Place wiring closest to inlet connector through the ferrite, putting a single turn around the ferrite. Keep the ferrite as close as possible to the input connector. Use ferrite; TFO0899 - FERRITE CORE 12.7x17mm

3. Twist all power supply cabling in a clock-wise direction before reattaching to their original mounting points. Ensure the twisting is sufficient ot minimise the area of the wire loop. Do not over-twist.

4. Twist the speaker cabling in a clock-wise direction before reattaching to it's original mounting point. Ensure the twisting is sufficient ot minimise the area of the wire loop. Do not over-twist.

5. Twist the keyboard (PS/2) cabling in a clock-wise direction before reattaching to it's original mounting point. Ensure the twisting is sufficient ot minimise the area of the wire loop. Do not over-twist.

6. Update assembly documentation with Revision B to reflect the change of assembly.