

**ENGINEERING CHANGE NOTE:****mfX3**

ECN #:

402

**ASSEMBLY:** BMW4021D or BMW4021E**DESCRIPTION:** MW4-PS1 Power Supply PCB**New Assembly:****DATE:** 11/01/01**Current Assy Rev:** J**Current Schematic Rev:****New Assy Rev:** K**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:**

The +12 volt output is capable of responding too fast to changes in load. This causes a excessive peak current when the AO cards are switched on and their local decoupling caps charge up. This can in turn cause the power supply's main current limiter to shut down, especially when running at 90 VAC.

**DETAILS OF CHANGE:**

1. Replace C105 (was 4n7) with a 22nF capacitor, Fairlight P/N CRR4961, Polyester film metallized, >= 50V, <=10%, >= +85 Deg C.
2. Replace R135 (was 6k2) with a 22k resistor, Fairlight P/N RMA7022, Axial, Metal Film, >= 0.25W, 1%, >= 100V.
3. Place a assembly revision label on the card, marked "K", after the blank PCB P/N so it reads as follows: "BMW4021D-K" or "BMW4021E-K".
4. Mark power supply assembly with revision H to reflect the change of assembly.

HW or Project Engineer.....

R&D or Project Manager.....