

ECN # 409

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**ENGINEERING CHANGE NOTE:**

ECN #:

409

**ASSEMBLY:** BMW4001C**DESCRIPTION:** MW4-BPR Backplane**New Assembly:****DATE:** 15/02/01**Current Assy Rev:** E**Current Schematic Rev:****New Assy Rev:** F**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:**

Intermittent system failure at less than 100V mains input.

(1) Noise coupled to "OFF" circuit results in unwanted interrupt: PXY shuts down PS1 (refer Fix 1 below).

(2) Noise coupled to "DEGn" signal results in malfunction of PS1 regulators resulting in noise in analog inputs (Refer Fix 2 below).

**DETAILS OF CHANGE:**

- Between pins 1 and 2 on JP3 add 0.1 uF Capacitor, Radial, Mono Ceramic, F/L Part No. PCMC1024
  - Between pins 1 and 3 on JP6 add 0.1 uF Capacitor, Radial, Mono Ceramic, F/L Part No. PCMC1024
- NOTE: Insulate capacitor leads with PVC tubing and fasten capacitor bodies to the PCB with silastic.
- Label Backplane with the new revision so that it reads "BMW4001C-F"

NOTE TO SUBCONTRACTORS: Modify all units in WIP.

NOTE TO PRODUCTION: Modify all units in stock and in WIP.

NOTE TO FIELD SERVICE: At the first opportunity modify units that are likely to work in the less than 100V mains environment.

HW or Project Manager: \_\_\_\_\_

R&D Manager: \_\_\_\_\_