

ECN # 515

Page 1 of 1

**ENGINEERING CHANGE NOTE:**

mfx3

ECN #:

515

ASSEMBLY: BMW4001C-E**DESCRIPTION:** MW4-BPR Backplane**New Assembly:** BMW4001C-F**DATE:** 23/09/02**Current Assy Rev:** E**Current Schematic Rev:****New Assy Rev:** F**New Schematic Rev:**

THIS ECN REPLACES AND INCORPORATES ECN391 AND ECN409.

☐ 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 3 below).

(2) Noise coupled to "DEGn" signal results in malfunction of PS1 regulators resulting in noise in analog inputs (Refer Fix 4 below).

DETAILS OF CHANGE:

1. Hand solder the 5 PIN R/A connector F/L Part No. JMH7816 to position JP6 on the same side as the power connectors. The connector pins must be facing to the left. Refer to attached photo.
2. Hand solder the 2 PIN R/A connector F/L Part No. JMH4668 to position JP3. JP3 has 4 holes, use only the two righthand side holes (two holes in direction of number "3" in the "JP3" screenprinted reference on PCB). The connector pins must be facing to the left (in direction of "J"). Refer to attached photo.
3. Between pins 1 and 2 on JP3 add 0.1 uF Capacitor, Radial, Mono Ceramic, F/L Part No. CCR9974. NOTE: Insulate capacitor leads with PVC tubing and fasten capacitor bodies to the PCB with silastic.
4. Between pins 1 and 3 on JP6 add 0.1 uF Capacitor, Radial, Mono Ceramic, F/L Part No. CCR9974. NOTE: Insulate capacitor leads with PVC tubing and fasten capacitor bodies to the PCB with silastic.
5. Label Backplane with the revision label as specified on the current BOM.

NOTE TO SUBCONTRACTORS: Carry out this ECN on all production units until further notice.

NOTE TO PRODUCTION: No action required.

NOTE TO FIELD SERVICE: No action required.