

ECN # 444.1

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**ENGINEERING CHANGE NOTE:**

mfx3

ECN #:

444.1

**ASSEMBLY:** BMW4091**DESCRIPTION:** MW4- AO1 Analog Output 1 Card**New Assembly:****DATE:** 06/02/02**Current Assy Rev:** F**Current Schematic Rev:****New Assy Rev:** G**New Schematic Rev:**

PLEASE NOTE: THIS ECN INCORPORATES ECN359.1 WHICH IS STILL VALID FOR THE BOARDS ASSEMBLY REVISIONS LOWER THAN G. THIS ECN REPLACES ECN444 (IMPROVED METHOD OF MODIFICATION).

☐ 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:**

Cost saving and rectification of JTAG errors.

**DETAILS OF CHANGE:**

1. Bipolar Capacitors (FL Part No. CBS3165) in locations C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 removed. NOTE: If these capacitors have already been fitted they DO NOT have to be removed.
2. Desolder CN1 Pin 32 and bend out about 45 degrees and cut the pin so that about 4mm remains.
3. Solder one end of a 47R SMD resistor (Item 65 on the BOM)) to the now exposed pad on the PCB. The resistor should be standing up.
4. Connect a wire between the lifted pin and the other end of the resistor (the top end).
5. Place a solder blob across J4 to raise the revision code to 2.1
6. Place an assembly revision label on the card, marked "G", after the blank PCB P/N so that it reads: BMW4091B-G.

NOTE TO SUBCONTRACTORS: This ECN applies to the production batch not started before the issue of this ECN. If there is any WIP with the Bipolar Capacitors (C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20) fitted, DO NOT implement this ECN (Leave the boards as Rev F and carry out ECN359.1 as usual).

NOTE TO PRODUCTION: No action required.

NOTE TO FIELD SERVICE: No action required.