



ENGINEERING CHANGE NOTE:

mfx3

ECN #:

344.2

ASSEMBLY: BMW4091**DESCRIPTION:** MW4- AO1 Analog Output 1 Card**New Assembly:** BMW4091B-E**DATE:** 13/06/01**Current Assy Rev:****Current Schematic Rev:****New Assy Rev:** E (2.0)**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:**

Release of new revision of blank AO1 PCB (Rev B).

Extra capacitors and resistors were added to reduce the output DC offset when the O/P is direct coupled (JP3-JP18 fitted).

Zener diodes added to protect the voltage regulators

DETAILS OF CHANGE:

The AO1 blank PCB has been updated. The new PCB is Rev B and features the following changes:

a. It incorporated all the mods in ECN336.

b. Eight 470nF capacitor (C134A, C135A, C136A, C137A, C150A, C151A, C152A, C153A) and eight 1M0 resistors (R122A, R124A, R126A, R128A, R134A, R136A, R138A, R140A) have been added to reduce the output DC offset.

c. Two Zener Diodes (ZD1, ZD2) have been added.

d. A 1k0 resistor has been added reusing the R94 designation.

U31 has been removed as it is no longer needed.

Solder blob location J4 should not be shorted.

Note: For direct O/P coupling JP3-JP18 must be installed with zero ohm resistors.

Place a label on the card, marked "E", after the blank PCB P/N so it looks as follows BMW4091B-E

ECN344.2 is a correction to ECN 344.1: Removed "D (1.1)" from "Current Assy Rev". For Rev B is a new PCB and there is no way to modify Rev A PCB to equivalent to this Rev B PCB.