

ECN #

1007

Page 1 of 1



## ENGINEERING CHANGE NOTE:

ECN #:

1007

**ASSEMBLY:** BMW4101

This ECN replaces ECN 439

**NEW ASSEMBLY:** BMW4101C-G**CURRENT REV:** F**NEW REV:** G**DESCRIPTION:** MW4-SIO1 Sync I/O 1 Card**DATE:** 20/05/2004**REASON FOR CHANGE:**

- |  |  |                                       |                                      |
|--|--|---------------------------------------|--------------------------------------|
| <input type="radio"/> Safety Issue                   | <input type="radio"/> UL Compliance Issue  | <input type="radio"/> New Feature     | <input type="radio"/> Cost Reduction |
| <input checked="" type="radio"/> Bug Fix             | <input type="radio"/> EMC Compliance Issue | <input type="radio"/> Quality Issue   |                                      |
| <input checked="" type="radio"/> Reliability Reasons | <input type="radio"/> Software Change      | <input type="radio"/> Cosmetic Change |                                      |

Crystal X1 is failing to oscillate on some SIO1 cards. This causes a Buss Error when accessing the Sony 9-pin port A.

This problem can cause MDR to not start. To detect the problem type the command "sio1 -d" and check for a "Buss Trap" message.

**COMPATIBILITY MAINTAINED:** Yes**DETAILS OF CHANGE:**

1. Fit two 4.7pF Capacitors (Ceramic NPO SMD0603) at C13 and C14 (replacing existing capacitors)
2. Fit a 270k 0603 resistor across pins 36 and 37 of U16 (see attached picture)

3. Re-label the Board revision so that the full label reads: BMW4101C-G

NOTE TO SUBCONTRACORS: Implement this ECN to all work in progress.

NOTE TO PRODUCTION: Implement this ECN to all stock and work in progress.

NOTE TO FIELD SERVICE: If buss error occurs accessing the Sony 9-pin port A implement this ECN. Also, implement on all cards that return for service.

**SIGNATURES:****Engineer:****Implementor:****Date:****Operations Manager:**