fairlight ENGINEERING CHANGE NOTE: mfx3

ECN #: 398.1

ASSEMBLY: BMW4061 **DESCRIPTION:** AES1 Digital Input/Output

New Assembly: **DATE:** 9/05/01

Current Assy Rev: E **Current Schematic Rev:** 1.4 2.3

New Assy Rev: E (NO CHANGE) **New Schematic Rev:** 1.4 2.3 (NO CHANGE)

THIS ECN REPLACES ECN 398 AND IS FUNCTIONALLY IDENTICAL TO IT. THE ONLY DIFFERENCE IS IN LINE ITEM 2 BELOW

○ **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:

Symptom: Noise on inputs.

Cause: MCLK64, ACLK64 have 1V undershoot.

Note: This change is mandatory, no matter if it is a 74FCT244 or 74LVC244 loaded at U16. It should also be applied to both Rev A and Rev B PCBs.

DETAILS OF CHANGE:

1. Stop doing the changes described in ECN385 and ECN 392. If ECN385 has been done, there is no need to change back, but this ECN must still be applied.

2. Cut off and remove pins U16/5 and U16/7

3. Connect RP4/2 to U14/33 via a 100R resistor (there is a via-hole near RP4/2 and a via hole near U14/33). (See attached picture)

4. Connect RP4/3 to U14/39 or U16/5-Pad (not the pin) via a 100R resistor (there is a via-hole near RP4/3). (See attached picture)

5. For Rev A PCB: Put a solder blob across J2, remove blobs from J3 and J4 (this raises the revison code to 1.4).

6. For Rev B PCB: Put solder blobs across J3 and J4 (raises the revision code to 2.3).

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7a. If it is a 74FCT244 loaded at U16, place a assembly revision label on the card, marked "E", after the blank PCB P/N so it reads as " BMW4061A-E" (For Rev A PCB) and " BMW4061B-E" (For Rev B PCB)

7b. If it is a 74LVC244 loaded at U16, place a assembly revision label on the card, marked "1E", after the blank PCB P/N so it reads as " BMW4061A-1E" (For Rev A PCB) and " BMW4061B-1E" (For Rev B PCB)