



## ENGINEERING CHANGE NOTE:

ECN #:

1018

**ASSEMBLY:** BMW4011F-X**NEW ASSEMBLY:** BMW4011F-Y**CURRENT REV:** X**NEW REV:** Y**DESCRIPTION:** MW4-PXY CPU CARD**DATE:** 9/05/2005**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 type="radio"/> Reliability Reasons | <input type="radio"/> Software Change      | <input type="radio"/> Cosmetic Change |                                      |

Symptom: Internal Sync can fail intermittently but other sync sources have no problem.

TVT log shows message "MASTER CLOCK DEAD" while set to use INTERNAL Sync

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

1. Replace R29 (currently 33R) with an 18R 0603 resistor
2. Note R29 is located on the top side near the crystal X1 and U29
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3. If the current board revision is X (ie U28 is not fitted), label the Board with the Revision Label "Y"
4. If the board revision is W (U28 is fitted), label the Board "W2"
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NOTE TO SUBCONTRACORS: Implement this ECN from the next manufacturing batch.

NOTE TO PRODUCTION: Implement this ECN on all WIP

NOTE TO FIELD SERVICE: No action required unless PXY exhibits symptoms of Internal Sync Failure

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