

**Keyboard scanner**

The keyboard scanner consists of a row driver and a column read back circuit. The row driver controls the keyboard rows after a switch has been pressed. The column read back circuit reads the columns after the level at a row driver output has been changed. Refer also to Section 3.3.3. "MICROPROCESSOR circuitry, keyboard circuitry".

**Boot circuit**

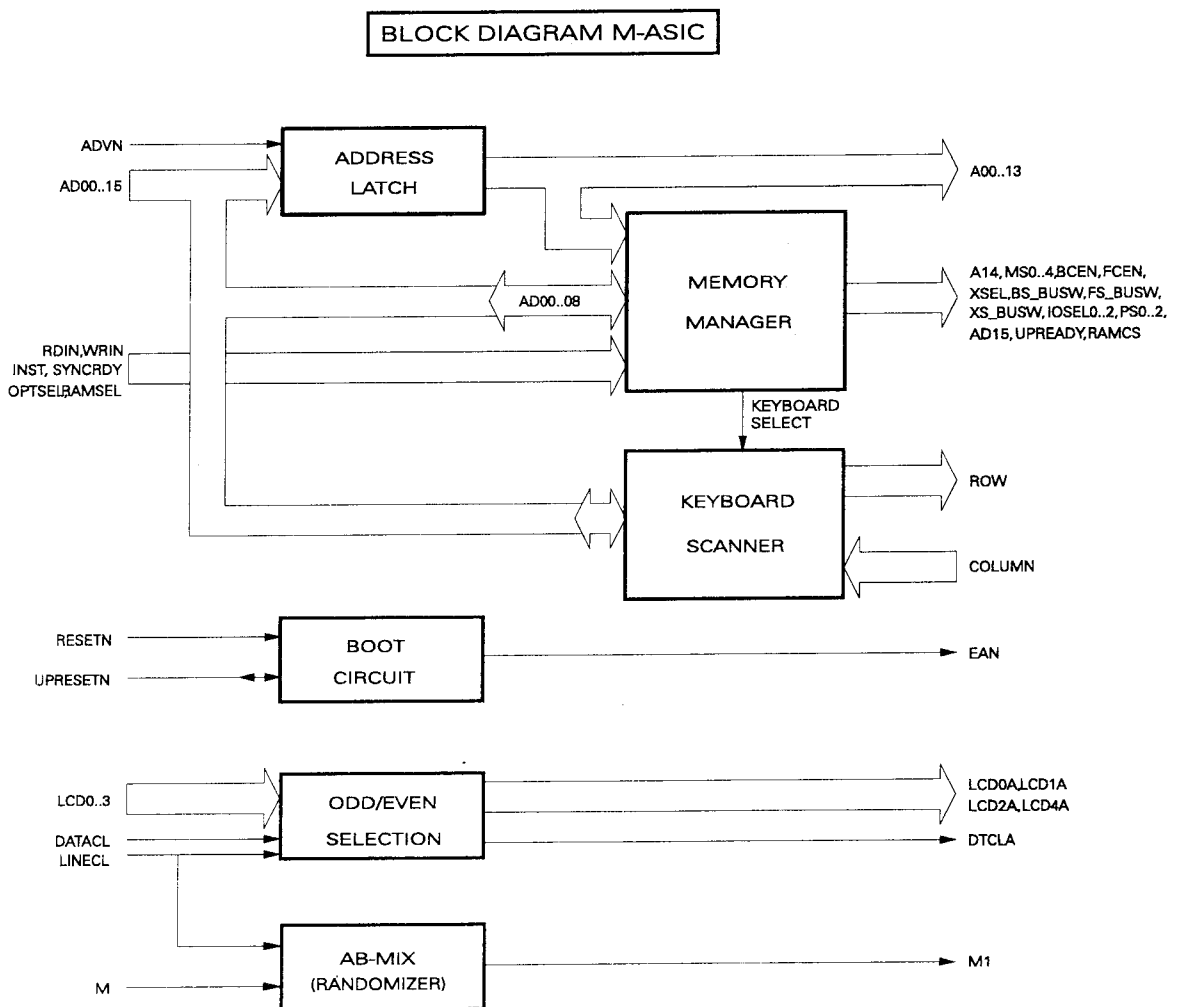
The boot circuit controls the Microprocessor EAN line. Refer to Section 3.3.3 "MICROPROCESSOR circuitry, RESET circuit" for detailed information.

**Odd/even selection**

This circuit cares that data for the even LCD lines Y2...Y160, and data for the odd LCD lines Y1...Y159, are supplied to respectively D1404 and D1405.

**M-Randomize (AB-MIX)**

The M-Randomize part generates the LCD backplane modulation signal M1. This signal M1 is de-synchronized from the other display control signals in order to prevent memory effects on the display. See also DISPLAY CONTROL SIGNALS.



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Figure 3.6 M-ASIC block diagram.