



The address decoder performs the function of turning on or enabling the appropriate circuitry at the critical time, so that information can be transferred back and forth between the game circuitry and the MPU. The memory map below is for the Asteroids Deluxe™ game.

If you are going to use the Automatic RAM/ROM Tester, please remember to remove MPU C3 and ground the WDOG DISABLE test point.

The High Score Memory circuit consists of an erasable re-programmable ROM N9, latches L9, P9, N10 buffer M9, and timer N11.

N11 produces a 12KHz O-15V squarewave. This signal when + 15, forward biases diode CR4 and allows capacitor C50 to charge to -29V. When it's OV, CR4 is then cut-off and CR3 is forward biased which causes C49 to develop a charge. C49 charges to approximately -28V. This is the potential required for EEPROM N9 to operate.

The MPU addresses the EAROM (AB0-AB5) via latch N10, when EAADDR goes high, and data is latched into the EAROM on DB0-DB7 through latch L9.

The function of the EAROM (read, write or erase) is determined by the MPU on data lines DB0-DB3. Latch D9 receives a high EACONTROL signal from the MPU address decoder and from the high output of latch L10.

Data in the EAROM is read by the MPU when the EAREAD is addressed by the MPII after a reset pulse or during self-test.

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Sheet 1, Side B

ASTEROIDS DELUXE™

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Microprocessor

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