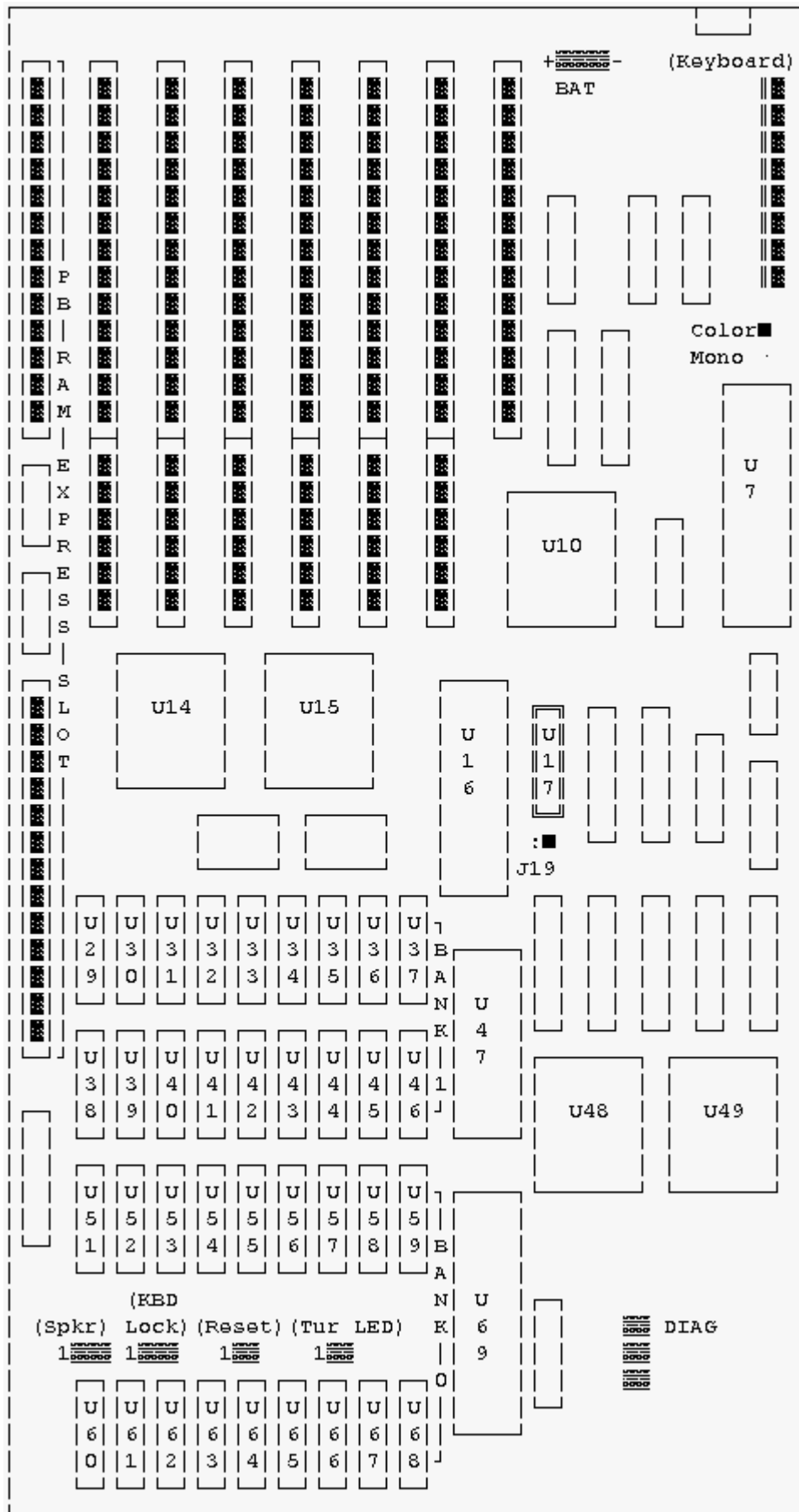# Packard Bell 800/900 M/Board
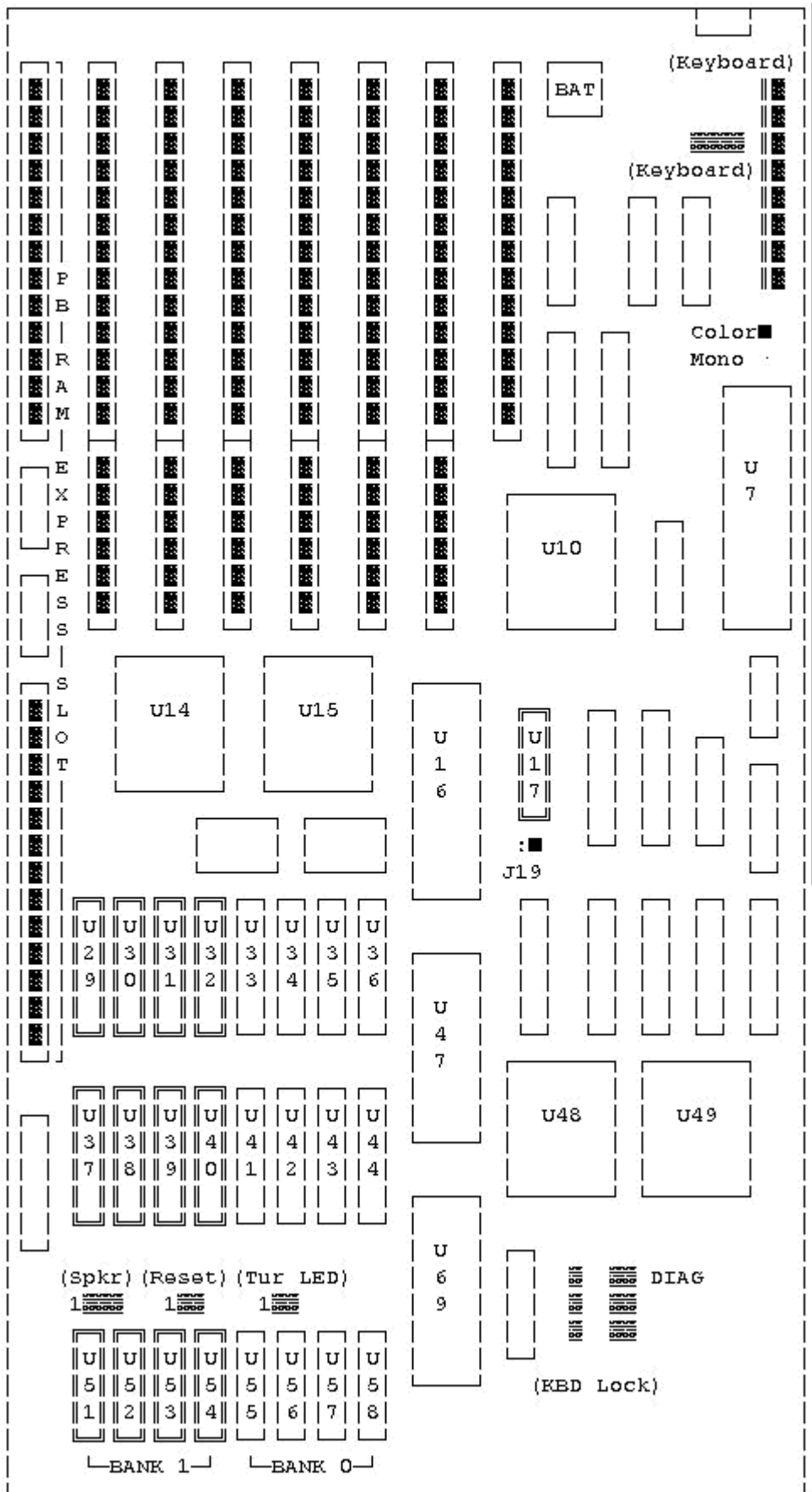
There are two revisions of the PB800/900 motherboard.

Revision C

NOTE: Holds 1MB of RAM (256 x 1 chips), arranged in four rows of nine chips per row (8 bits of RAM and 1 parity bit.) The CMOS backup battery is a removable AT style battery.

Revision D

Holds 1MB of RAM (256K x 4 chips) arranged in 2 rows of 4 and parity 1 row of 4 (256K x 1 chips) upgradeable to 2MB with same chips plugged in adjacent sockets. CMOS Battery is soldered.

Specification

2 motherboard revisions: Rev.C requires matching BIOS and Chips chipsets. Supports 1MB. Rev.D supports 2MB on motherboard. There is no difference between the PB800 and the PB900.

- **Battery :** 3.6V DC NiCad
- **BIOS :** 2 X 32KB - Phoenix 3.10.14 BIOS. To access setup, Ctrl-Alt-S
- **Cache :** N/A
- **Clock/Driver :** (RTC)
- **Cover Removal :** 5 on back panel
- **CPU :** 80286-12 MHz, 80286-16 MHz. Keyboard Switches: (Ctrl)-(Alt)-(+) = 12/16 MHz, (Ctrl)-(Alt)-(-) = 8 MHz.
- **Drive Cavities :** 2 X 5 1/4" half (exposed). 1 X 5 1/4" half (enclosed)
- **I/O Expansion slots :** 6 x 16-bit ISA (5 open). 2 x 8-bit ISA (1 open)
- **Interfaces :**
  - 1 DB-25 Parallel Port
  - 1 RS-232, DB-9 Serial Port
  - 1 RS232, DB-25 Serial Port
  - 1 5-pin DIN Keyboard Port
- **Power Supply :** 145 watts, 110/220 v 50/60 Hz
- **RAM :** Standard on motherboard : 1 MB. Maximum on motherboard : Rev.c 1 MB Rev.d 2 MB
- **Speaker :** Internal - cone on front
- **Video :** On expansion slot

Jumpers

Jumper	Function	Pins	Description
J19	80287 Clock Speed	1-2 3-4	80287-8 80287-10
COLOUR/MONO	Display Mode	1-2 2-3	Colour Monochrome

Upgrades

- **Cache Memory :** This system does not support cache memory.
- **Maths Co-Processor :** This system will support an 80287-8 math coprocessor. It should be installed at location U16. Set J19 to pins 1-2. This system will also support an 80287-10 math co-processor. It should be installed at location U16. A 30-32MHz crystal need to be installed at U17. Set J19 to pins 2-3.
- **RAM :** Maximum on motherboard : Rev.c 1 MB Rev.d 2 MB. Use 256k chips, 100ns.
- **Video Memory :** This system has a video card installed. Replace the video card for video memory upgrades.