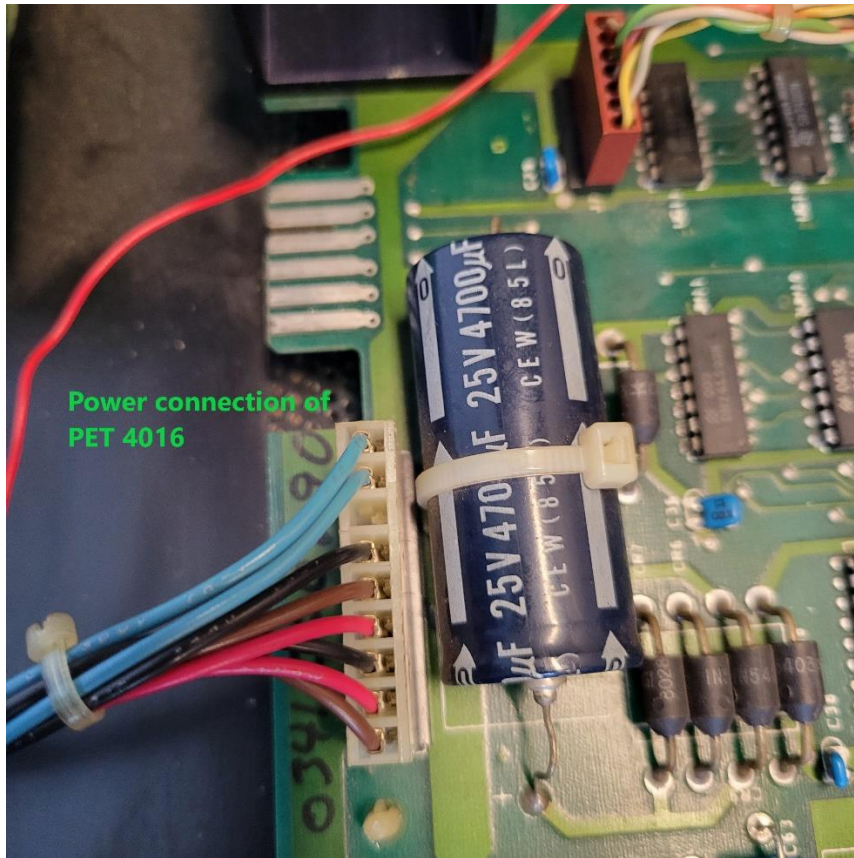
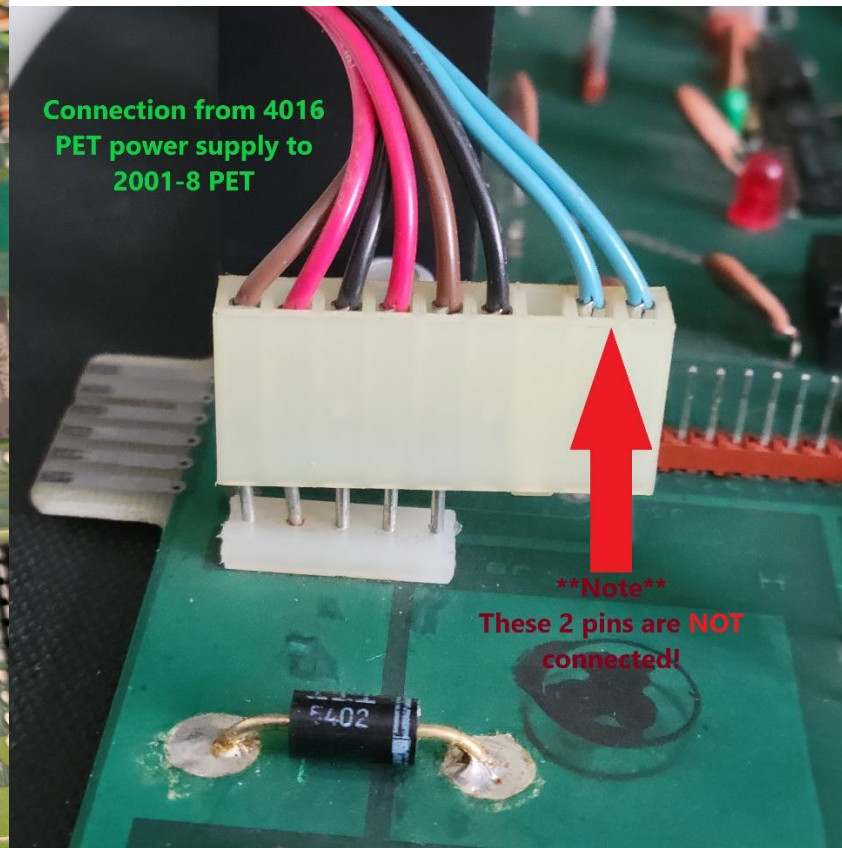


[illegible]



Power connection of
PET 4016



Connection from 4016
PET power supply to
2001-8 PET

****Note****
These 2 pins are **NOT**
connected!

6522 VERSATILE INTERFACE ADAPTER

DESCRIPTION

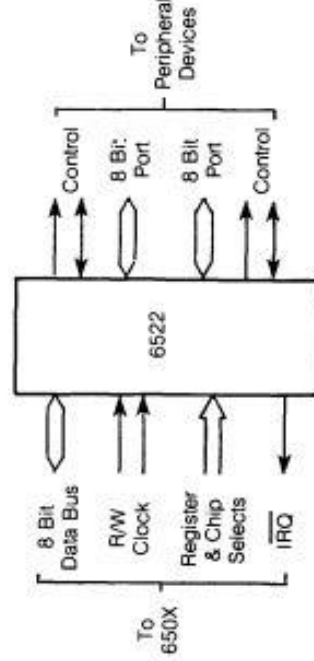
The 6522 Versatile Interface Adapter (VIA) provides all of the capability of the 6520. In addition, this device contains a pair of very powerful interval timers, a serial-to-parallel/parallel-to-serial shift register and input data latching on the peripheral ports. Expanded handshaking capability allows control of bi-directional data transfers between VIA's in multiple processor systems.

Control of peripheral devices is handled primarily through two 8-bit bi-directional ports. Each of these lines can be programmed to act as either an input or an output. Also, several peripheral I/O lines can be controlled directly from the interval timers for generating programmable-frequency square waves and for counting externally generated pulses. To facilitate control of the many powerful features of this chip, the internal registers have been organized into an interrupt flag register, an interrupt enable register and a pair of function control registers.

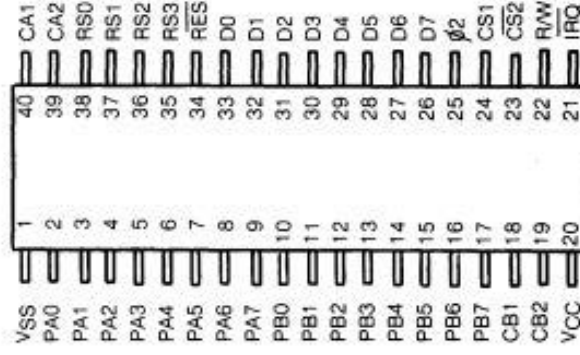
FEATURES

- Very powerful expansion of basic 6520 capability.
- N channel, depletion load technology, single +5V supply.
- Completely static and TTL compatible.
- CMOS compatible peripheral control lines.
- Expanded "handshake" capability allows very positive control of data transfers between processor and peripheral devices.

6522 Interface Diagram



6522



6520 PERIPHERAL ADAPTER

DESCRIPTION

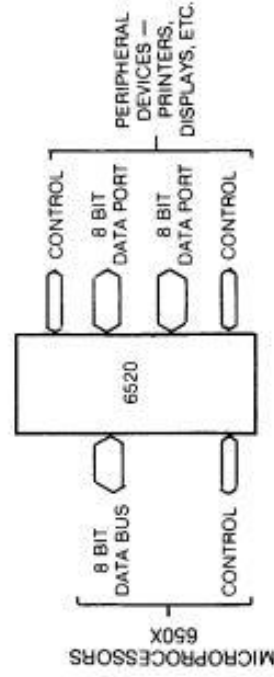
The 6520 Peripheral Adapter is designed to solve a broad range of peripheral control problems in the implementation of microcomputer systems. This device allows a very effective trade-off between software and hardware by providing significant capability and flexibility in a low cost chip. When coupled with the power and speed of the 6500 family of microprocessors, the 6520 allows implementation of very complex systems at a minimum overall cost.

Control of peripheral devices is handled primarily through two 8-bit bi-directional ports. Each of these lines can be programmed to act as either an input or an output. In addition, four peripheral control/interrupt input lines are provided. These lines can be used to interrupt the processor or for "hand-shaking" data between the processor and a peripheral device.

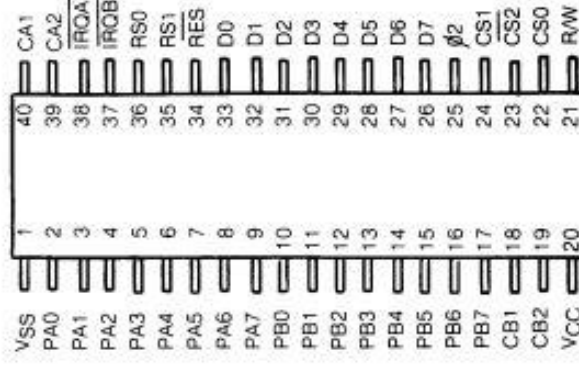
FEATURES

- High performance replacement for Motorola/AMI /MOSTEK/Hitachi peripheral adapter.
- N channel, depletion load technology, single +5V supply.
- Completely Static and TTL compatible.
- CMOS compatible peripheral control lines.
- Fully automatic "hand-shake" allows very positive control of data transfers between processor and peripheral devices.

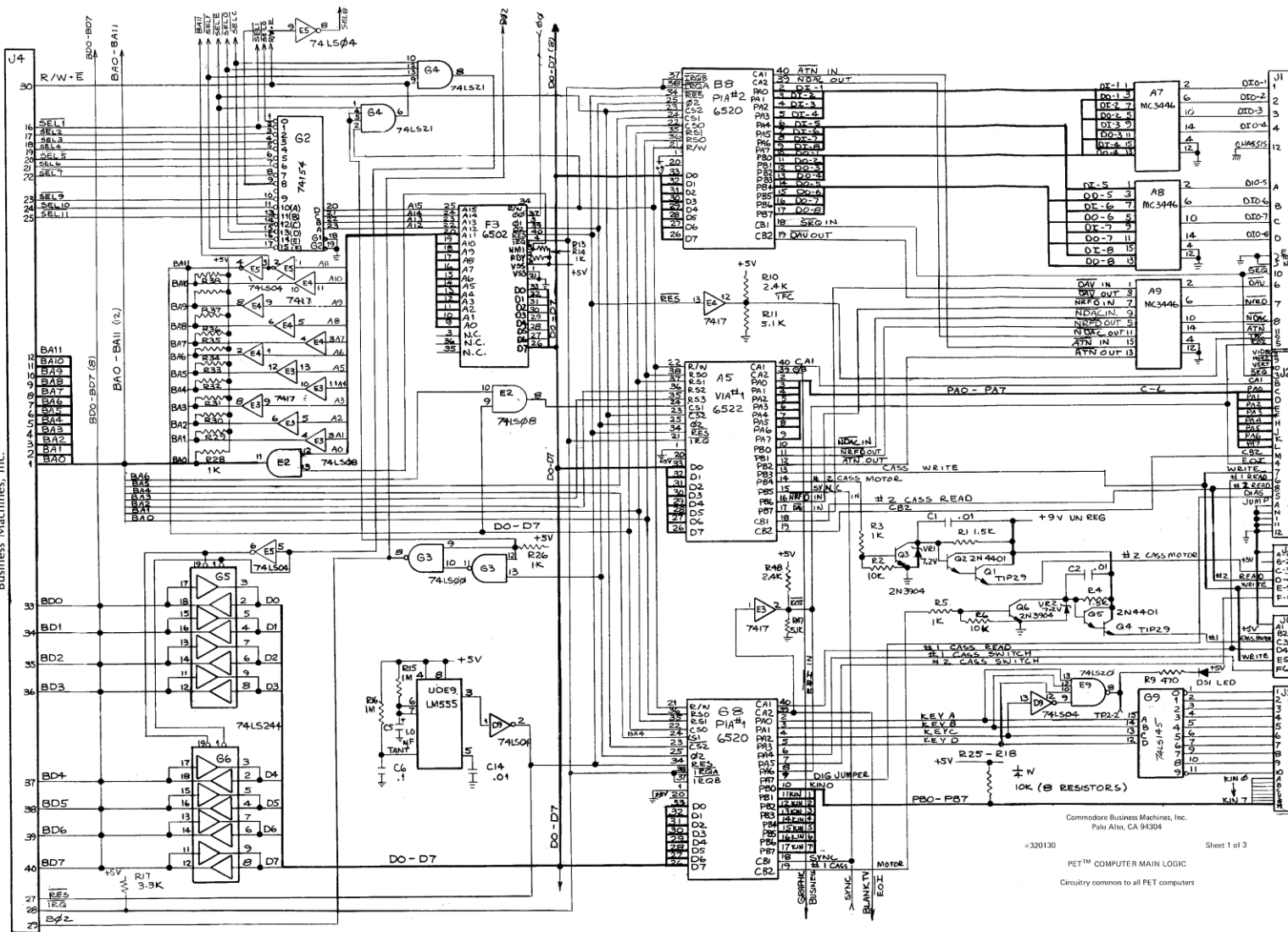
Basic 6520 Interface Diagram

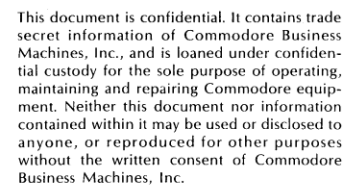


6520

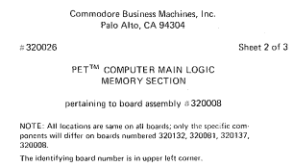


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The identifying board number is in upper left corner.



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