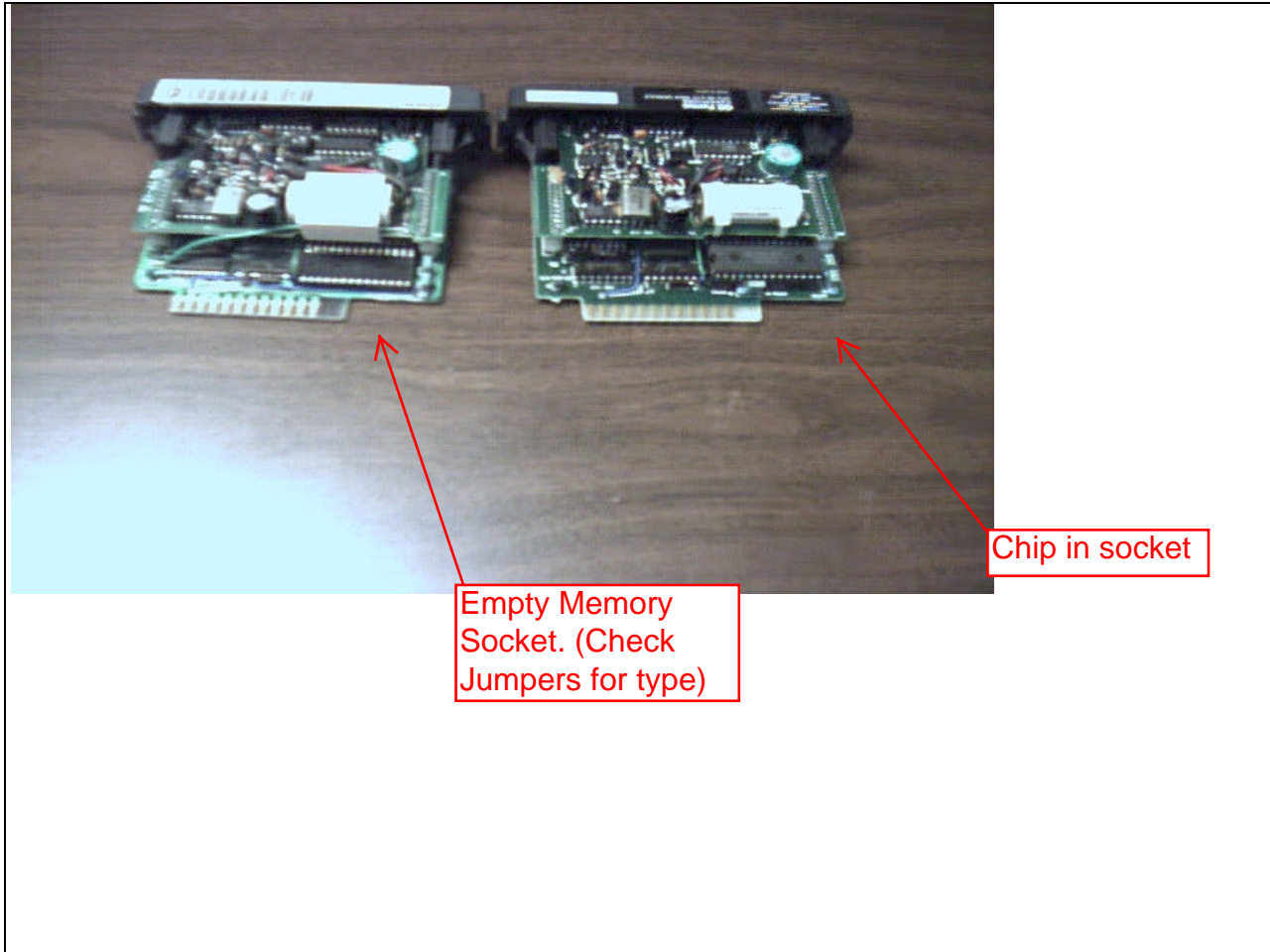
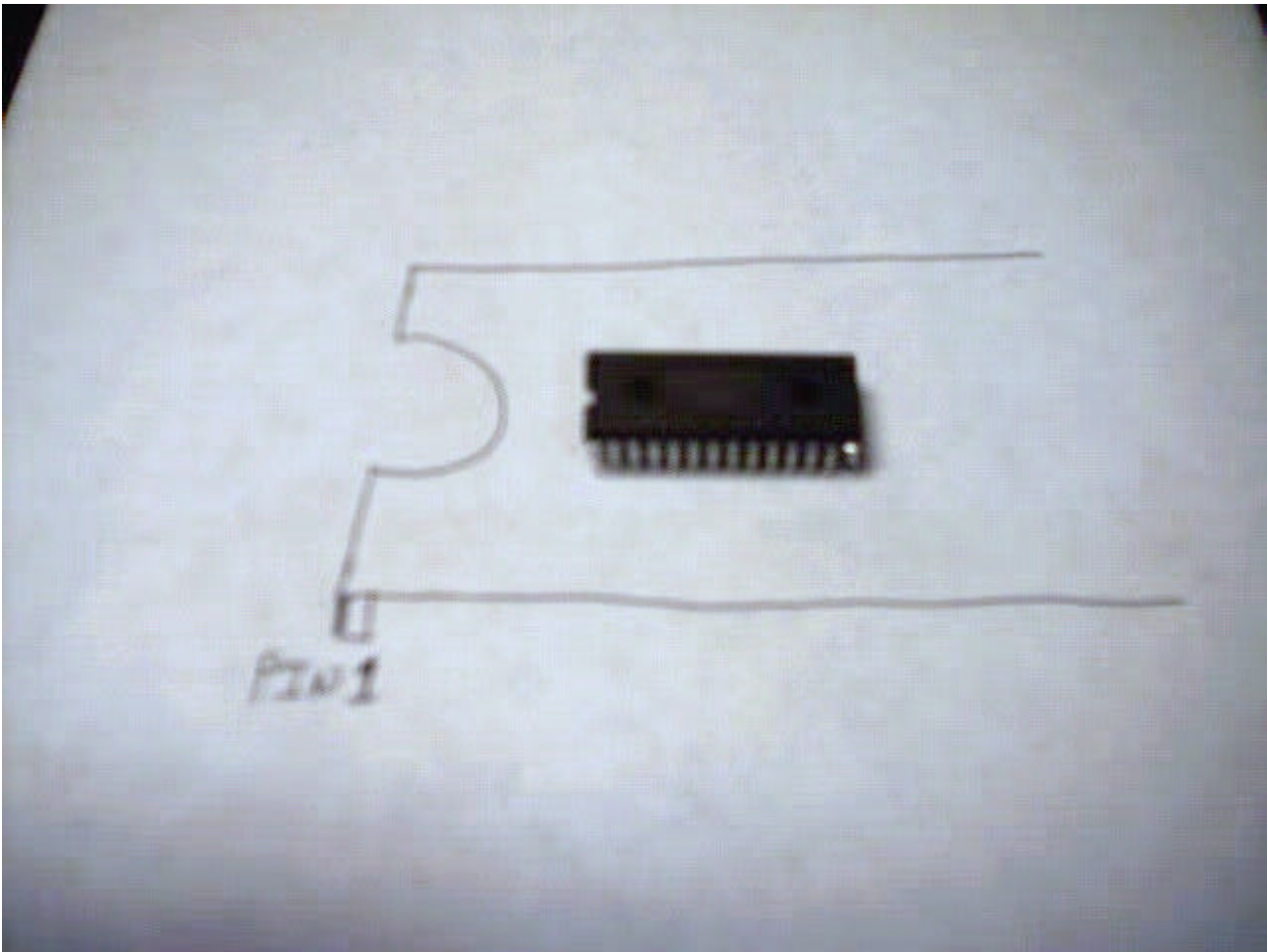


How to add a memory chip or EPROM to the Series 1 CPU.

There are two types of CPU cards. The early model (IC610CPU101) and the later model (IC610CPU104, 105,106) The main thing to watch for is these two units have different size chips. The early version used a 24-pin chip, while the newer uses a 28-pin chip. They are not interchangeable.



The next point to consider is the pin 1 notch of the chip. If the chip is put in backwards, you fry the board, chip, and possibly the power supply too. In the picture below you see how there is a notch on one side of the chip. Pin one is on the notch side. There is a socket at the base of the CPU card. It should have a picture of how the chip goes on. If it is worn off or missing, the notched side of the chip will be towards the center of the card.



I do not recommend separating the two circuit boards that are connected together. The battery will most likely need to be removed to give you a place to see the connectors on the inside of the unit. It also makes it easier to align the chip in its socket.

So, Steps to adding a memory chip or EPROM are as follows,

- A) Power off Series one PLC, and remove the CPU card.
- B) Confirm that you have the correct chip by part # and counting the # of pins.
- C) Count the number of pins on the socket to make sure they match.
- D) Remove the battery. Some have a plastic bracket, others use a wire tie to hold the battery in place.
- E) The battery has a keyed connector, so you should unplug it too.
- F) Now with the notch (pin1) going to the left or center of the board, align the chip pins to the socket.
- G) Visually check that all pins are ready to go in the correct hole on the socket.
- H) Gently press the center of the chip to seat the chip in the socket.
- I) Change jumpers to select the new hardware configuration.
- J) Reattach the battery. Use the wire ties or hold down bracket provided.
- K) Reinsert the CPU into the Series one Rack unit. Place a hand programmer on the CPU.
- L) Power on the Series one Rack. Check for smoke or any thing abnormal. If so, power off.
- M) The memory must be cleared. With the hand programmer enter the following;
- N) (with the key in program mode) Clear, shift 348, delete, next. This clears any garbage out.
- O) Now you need to reload your program. If you are installing an EPROM just flip the key to run.

Any questions or problems please call Technical support
800-784-9385

Attached is a page from the series one manual on how to set the switches and jumpers of the Series one CPU.

