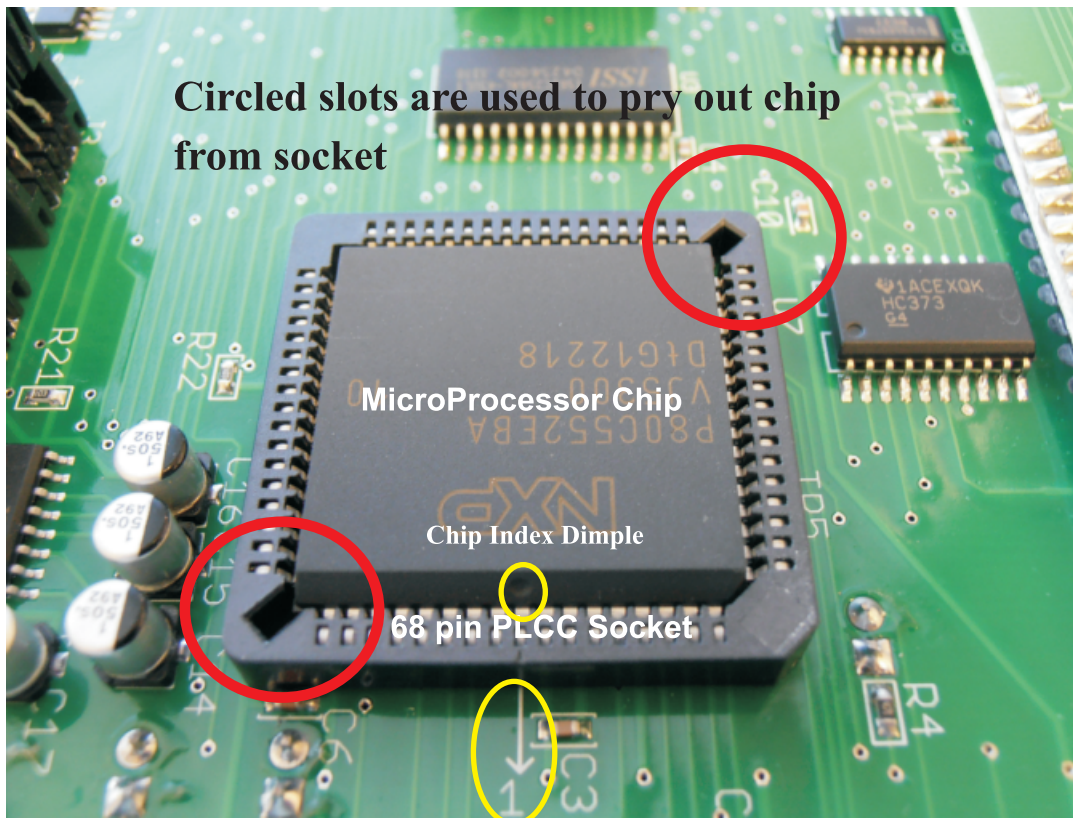


Circled slots are used to pry out chip from socket



Jewelers Screwdriver used to pry out chip



Symptoms That Are Usually Fixed After This Procedure

- Incorrect characters or symbols in display after boot up
- Blank display
- Black boxes or garbled display characters
- Red error LED on

Wiping Pin-Socket Contacts

After being in use for around 8 years or more, you may notice a garbled display, or other symptoms listed at the lower left, after the Command Station concludes its initialization.

The most common cause of this is oxidation on the pins of the 68 pin socket and 68 pin microprocessor, U5.

The procedure below will usually clear up this problem.

Unplugging U5 From Socket

1. Locate the largest chip on the board. This will be the microprocessor plugged into its 68 pin socket.
2. Observe the orientation of the socket and chip.
3. Locate the index mark for both the chip and socket. For the chip, it will be a dimple in the center of one side (small yellow ellipse). For the socket, pin 1 is labeled with an arrow and a big numeral 1 (big yellow ellipse). Remember this orientation since plugging the chip in differently will damage the socket, the chip or both.
4. Look at the 4 corners of the socket. Notice that two corners have holes visibly different than the other two corners of the socket. These two holes are circled in red. Note that your socket may look a little different but it will be similar in construction. These two holes are used to remove the chip from the socket.
5. Use a jewelers screwdriver to gently remove the chip. Take care not to crack the thin fragile corner of the socket. Alternately pry up on each corner a little at a time. Eventually the chip will come out.

DO NOT USE XACTO KNIFE BLADE! Either side of the thin blade will easily crack the socket.

6. Once the chip is out, carefully re-insert it. Orient it in the same position as when removed. Place it squarely on top of the socket. Push down on the chip equally on all sides until it is seated back into the socket.

A single removal and re-insertion cycle is usually sufficient to clean the pins and restore normal electrical contact.

For very dirty environments, if this technique doesn't work, the old socket may need replacement.

If you are the original owner of the Command Station, and prefer for CVP to perform this procedure, give us a call for instructions and pricing information. This service is reserved for original owners only.

Removing The Command Station MicroProcessor From 68 pin PLCC Socket

CVP PRODUCTS