



Consumer Product Service
Manager of Tehnical Support
TECH TIP

VCS
number 7

MODEL: CX5200

DATE: 1/20/83

SUBJECT:

Defective Rockwell 6502 MPU on CX5200 PC Board.

DESCRIPTION:

Rockwell MPUs with date code of 8250 and later (stamped with the letters RC) have a timing defect.

A factory modification adds an R-C network on the component side of the CX5200 PC Board at IC U14A (pin 1) and U6A (pin 4) (see Figures 1 and 2).

Note: You do not need to remove this network to use any other manufacturer's MPU or a Rockwell MPU with a different date code.

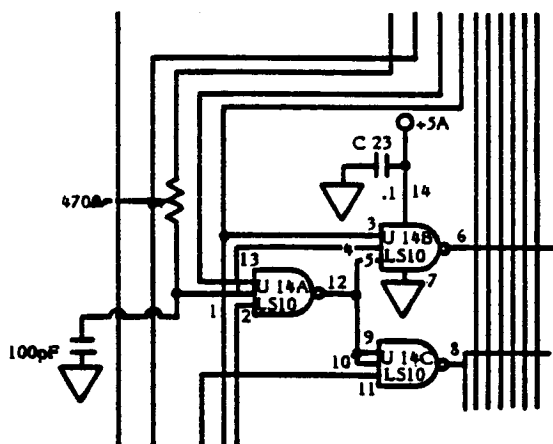


Figure 1. CX5200 Schematic (R-C Network)

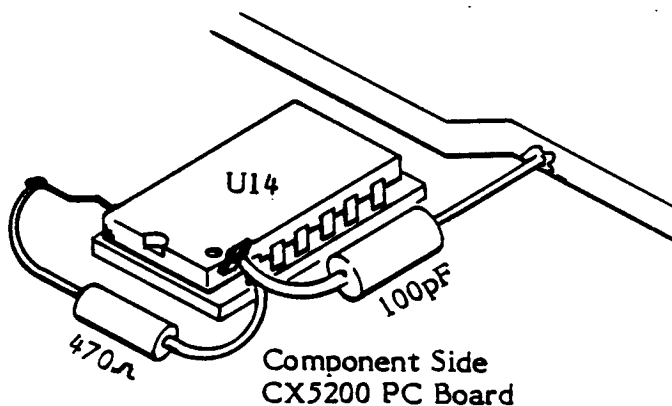


Figure 2. Factory Modification



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If you are installing an RC stamped 6502 on a CX5200 PC Board which has not had the factory modification added to the component side:

Add an R-C network to the solder side of the PC Board (See Figure 3).

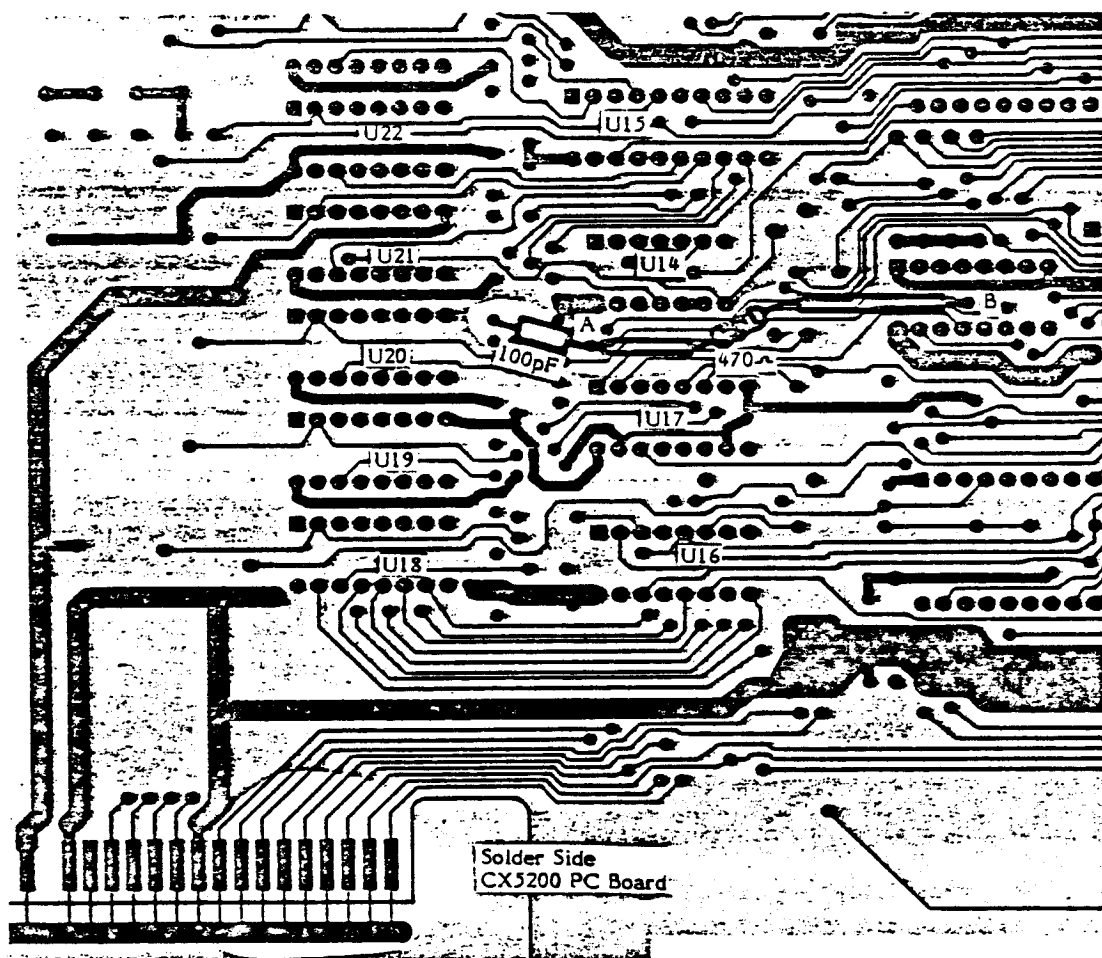


Figure 3. R-C Network (Add to solder side of CX 5200 PC Board)

PROCEDURES:

You will need:

- 1 - 100 pf capacitor (P/N C014180-03)
- 1 - 470 Ω resistor (P/N 14-5471)
- Sleeving (approximately 2" in length)



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See Figure 3 for the following steps:

1. Straighten the lead of C27 (solder side) and solder one lead of the 100 pf capacitor to it.
2. Point A is an unoccupied well between IC's U14 and U17. It is connected directly to Pin 1 of U14. Cut the trace running between points A and B as close to Point A as possible. Use a DVM to insure that the trace is now open.
3. Add sleeving to one lead of the 470 Ω resistor. Insert the lead into the well at Point A and solder.
4. Wrap the remaining lead of the 100 pf capacitor around the lead of the 470 Ω resistor at Point A and solder.
5. Remove the solder from well at Point B which is directly beneath U6. Add sleeving to the remaining lead of the 470 Ω resistor. Insert this lead into the hole at Point B and solder.

TESTING PROCEDURES

Use standard testing procedures as outlined in the CX5200 Field Service Manual (P/N FD100127, Rev. 2).

DIFFICULTY REPORTING

If you have any questions or need further clarification concerning this Tech Tip, contact the ATARI Tech Line Specialist.

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(800) 672-1466

Outside California
(800) 538-1535