



Consumer Product Service .  
Manager of Technical Support  
**TECH TIP**

**TT**  
**HCD**  
**number 12**

MODEL : ATARI 1200XL COMPUTER

DATE: June 16, 1983

**SUBJECT:**

**Color Burst/Video Sync**

**DESCRIPTION:**

Loss of video sync on certain televisions and monitors.

**PROBLEM:**

The screen distorts with high intensity (black to white) screens. Characters appear to be very wavy, torn or ghost images, and the video on the screen seems to enlarge.

**SOLUTION:**

**Most** video sync problems will be resolved by the following series of component changes.

NOTE: Perform the **following** modification procedure only on those units **which display** video sync **problems**

**MODIFICATION PROCEDURE:**

Silk Screen Location	Remove Comp Desc.	Part Number	Replacement Comp. Descr.	Part No.
R22	Res 1/4W 4.3K	14-5432	Res 1/4W 6.2K	14-5622
R188	Res 1/4W 910 Ohm	14-5911	Diode 1N914 place cathode <b>closest to</b> bridge rectifier.	31-1N914
R163	Res 1/4W 100 Ohm	14-5101	Res 1/4W 150 Ohm	14-5151
R145	Unused		Res 1/4W 18K	14-5183

**TROUBLESHOOTING:**

**These changes do not** effect the troubleshooting procedures outlined in **the 1200XL Computer Field Service Manual (FD100217).**

**DIFFICULTY REPORTING:**

If you have questions or need further assistance, call the Atari **Techline** Specialist:

Inside California  
(800) 672-1466

Outside California  
(800) 538-1535



Consumer Product Service  
Manager of Technical Support  
**TECH TIP**

TT  
HCD  
number **15**

MODEL: Atari 1200XL Comouter

DATE: June 7.1983

SUBJECT:

Audio Frequency (Sound) Drift

DESCRIPTION:

The audio is of poor quality or does not exist at all.

PROBLEM:

The audio must be constantly readjusted or cannot-be adjusted. The problem is caused by components which do not meet specification.

SOLUTION:

Most audio frequency drift problems will be resolved by the following series of component changes. It is necessary to substitute polystyrene capacitors in place of the ceramic capacitors in the AUDIO OSCILLATOR CIRCUITRY.

NOTE Perform the **following modification** procedure only on those **units which** display audio frequency **drift problems**.

MODIFICATION PROCEDURE:

Silk Screen Location	Remove Comp Descrip	Part Number	Replacement Component	Part Desa. No.
C96,97	Cap Cer 820pF 25V	C061336-03	Cap Poly 820pF 25V	C018261 *

- = Alternate for C018261 is C010821.

TROUBLESHOOTING:

These changes do not effect the **troubleshooting procedures** outlined in the 1200XL Computer Field Service **Manual (FD100217)**.

DIFFICULTY REPORTING:

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Consumer Product Service  
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**TECH TIP**

**TT**  
HCD  
number **18A**

MODEL:

Atari 1200XL Computer OS

DATE:

September 29, 1983

This Tech **Tip Supersedes** Tech **Tip** 18 Dated **July 12, 1983**.

**SUBJECT:**

If customer difficulty with the SYSTEM RESET key is reported, replacement of the Rev. A O/S **may** be necessary.

**DESCRIPTION:**

On some 1200XL units it **may** be necessary to replace Rev. A EPROMs or ROMs with Rev. B ROMs (**silk** screen locations **U12** and **U13**).

**PROBLEM:**

If a 1200XL (OS) problem is encountered, you must replace Rev. A EPROMs or ROMs with Rev. B OS ROMs (**U12 - C0606178 and U13 - C060616B**). The **only** difference between Rev. A and Rev. B is that Rev. B corrects a problem in the function of the System Reset key.

Rev. A OS EPROMs or ROMs should be replaced by Rev. B OS ROMs in only one of two situations

- 1) If the Rev. A OS EPROMs or ROMs have failed.
- 2) If the consumer has complained about the improper function of the SYSTEM RESET key. There are no other differences between Rev. A and Rev. B.

**SOLUTION:**

1. For units with Rev. A ROMs installed, change from Rev. A OS ROMs to Rev. B OS ROMs **by** replacing both ROMs.
2. For units with Rev. A EPROMs installed it is necessary to change the 0.0 Ohm jumpers per the following modification instruction prior to inserting the Rev. B ROMs.

**MODIFICATION INSTRUCTION:**

To convert from Rev. A EPROMs to Rev. B ROMs perform the following:

1. Remove jumpers (**C060629**) **W11, W12, and W13** (**28-pin** device ONLY).
2. Install jumpers (**C060629**) **W6, W7, W8, and W9** (**24-pin** device ONLY).
3. Install Rev. B ROMs with Pin 1 of the ROMs in Pin Location 3 of the **sockets**.

NOTE: The 1200XL OS is a two (2) EPROM or ROM set. When replacing a Rev. A OS with Rev. B OS both devices must be changed.



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# TECH TIP

T T  
HCD  
number **18A**

MODEL: Atari 1200XL Computer OS

DATE: September 29 1983

## TROUBLESHOOTING AND MAINTENANCE:

There is no **change** to either **maintenance** or **troubleshooting** techniques because of this change.

## PROBLEM REPORTING:

If you have questions or require further explanation concerning **this** Tech Tip, **contact** your Atari Tech-lie Specialists:

Inside California:  
(800) 672-1466

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Consumer Product Service  
Manager of Technical Support -  
**TECH TIP**

TT  
HCD  
number **19**

MODEL: ATARI 1200XL CPU

DATE: August 15, 1983

SUBJECT:

No Picture on Star Raiders™.

PROBLEM:

Some 1200XL CPU s display no picture when the Star Raiders cartridge is powered up.

DESCRIPTION:

The reset timing to the 6502 CPU is incorrect for the cartridge. The placement of a 1000pF (NPO, 50VDC) capacitor between Pins 3 and 7 on U16 eliminates this problem.

SOLUTION:

Solder one lead of a .001uF NPO, 50VDC capacitor (C014181-01) to Pin 3 of U16, and the other lead to Pin 7 of U16.

TESTING AND TROUBLESHOOTING:

These changes do not affect the troubleshooting procedures outlined in the 1200XL Home Computer Field Service Manual (FD100217).

DIFFICULTY REPORTING:

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(800) 538-1535