



Customer Service

A Harman International Company
3 Oak Park Bedford, MA 01730
Tel (617) 280-0300, Fax (617) 280-0499

M300 SERVICE BULLETIN

SUBJECT: Noise in audio in certain Pitch shift programs (Octave down, Bank 10, Program 2) exhibited in some units.

REFERENCE: ECO 970422-00

DISTRIBUTION: International Pro-Product Distributor Service Centers, Customer Service, Repair

CORRECTIVE ACTION: The following components must be added and deleted from two of the boards in the M300L.

On the HOST board M300L (Rev 0 to 1)

Add:

- 1 ¼W 33 ohm resistor R53 P/N (202-00508)

On the DSP board M300L (Rev 0 to 1)

Delete:

- 1 ¼W 75 ohm resistor R23 P/N (202-00512)
- 1 150pF 100V cap C66 P/N (245-03870)

EQUIPMENT REQUIRED:

Clean, well lighted anti-static work bench with grounded wrist-strap

#1 Phillips Screwdriver

Low Wattage Soldering Iron

Wire strippers

Solder

Xacto Knife

2" 28 gauge kynar

2" capton tape

WARNING

This modification should be performed by qualified technical personnel only. Damage caused by performing this modification may void the manufacturer's warranty or standard repair policies.

CAUTION

Electrostatic Discharge (ESD) Precautions

The following practices minimize possible damage to ICs resulting from electrostatic discharge or improper insertion.

- Keep parts in original containers until ready for use.
- Avoid having plastic, vinyl or styrofoam in the work area.
- Wear a properly installed anti-static wrist-strap.
- Discharge personal static before handling devices.
- Remove and insert boards with care.
- When removing boards, handle only by non-conductive surfaces and never touch open-edge connectors except at a static-free workstation.*
- Minimize handling of ICs.
- Handle each IC by its body.
- Do not slide ICs or boards over any surface.
- Insert ICs with the proper orientation, and watch for bent pins on ICs.
- Use anti-static containers for handling and transport.

* To make a plastic-laminated workbench anti-static, wash with a solution of Lux liquid detergent, and allow to dry without rinsing.

1. **INSTRUCTIONS:** The following pages of this bulletin contain the complete rework instructions for this ECO.

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Please note that these changes have been implemented at the factory starting with M300 serial # 4007 and M300L serial # 1582. Earlier M300 units do not require the change. Implement only in M300 and M300L units with HOST raw PCB p/n 710-10780,REV0 and DSP raw PCB p/n 710-10800,REV0 AND with serial numbers lower than those indicated.

Rework Instructions

1. Host Board Component Side (see page 5 for details):

- Cut Etch at J1 pin 7
- Cut etch that runs between U10 pins 9 & 10.

2. Host Board Solder side (see page 6 for details) :

- Apply 2" of capton tape from J1 pin 7 to U10 pin 7. Don't cover the pins.
- Solder one end of the resistor to J1 pin 7 and make a good mechanical connection (to workmanship standards) before soldering.
- On the other side of the resistor, remove all but 1/8" of component lead.
- Using 2" of 28AWG kynar wire, strip off 1/8" insulation on both ends.
- Make a good mechanical connection with one end of the kynar wire and the component lead of the resistor.
- Solder the connection.
- On the other end of the kynar wire, make a good mechanical connection to U10 pin7 and solder the connection.

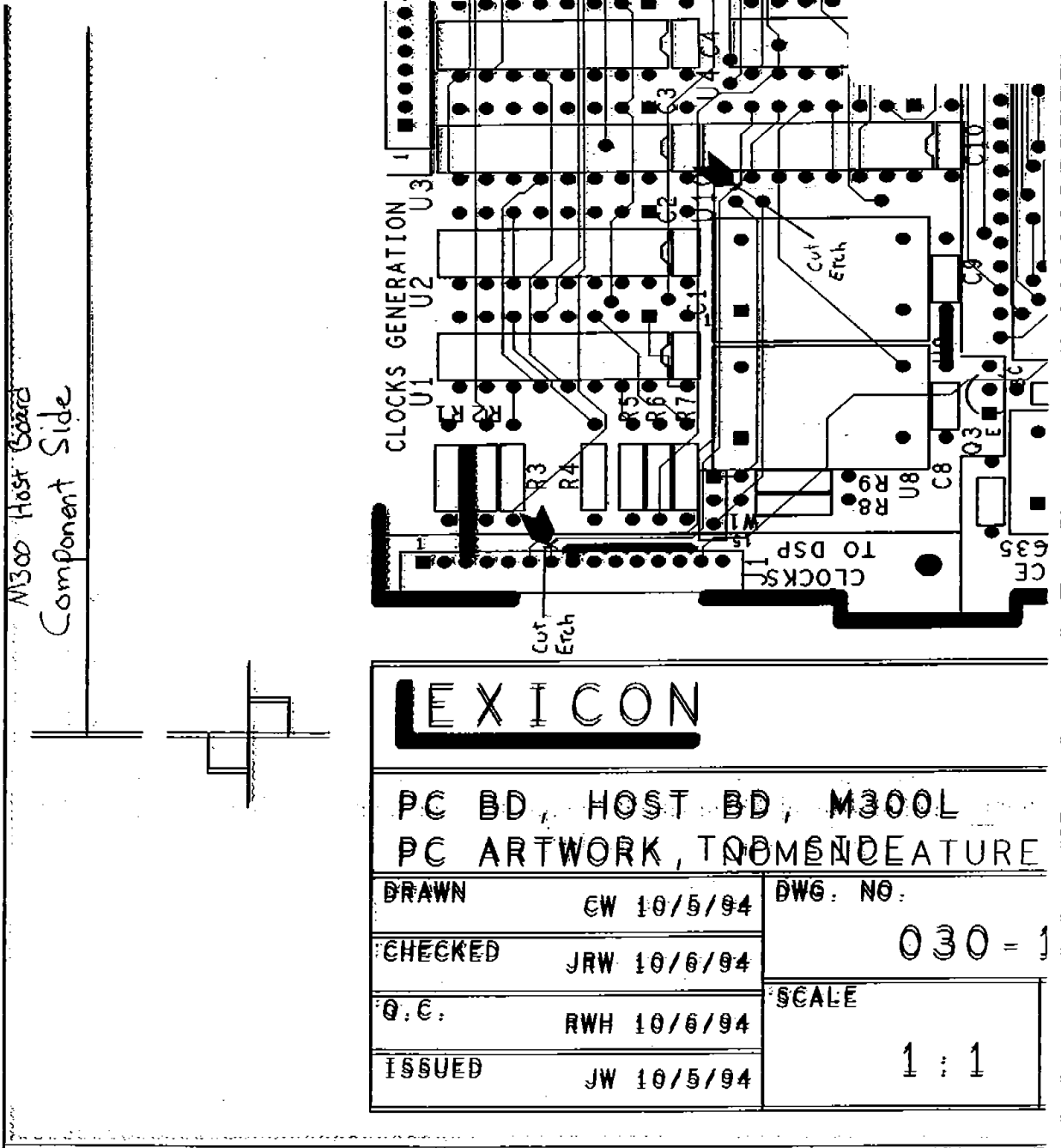
3. DSP Component Side:

- Remove R23 (75 ohm resistor)
- Remove C66 (150pf capacitor)

Note - Step 3 not required for new DSP Board builds

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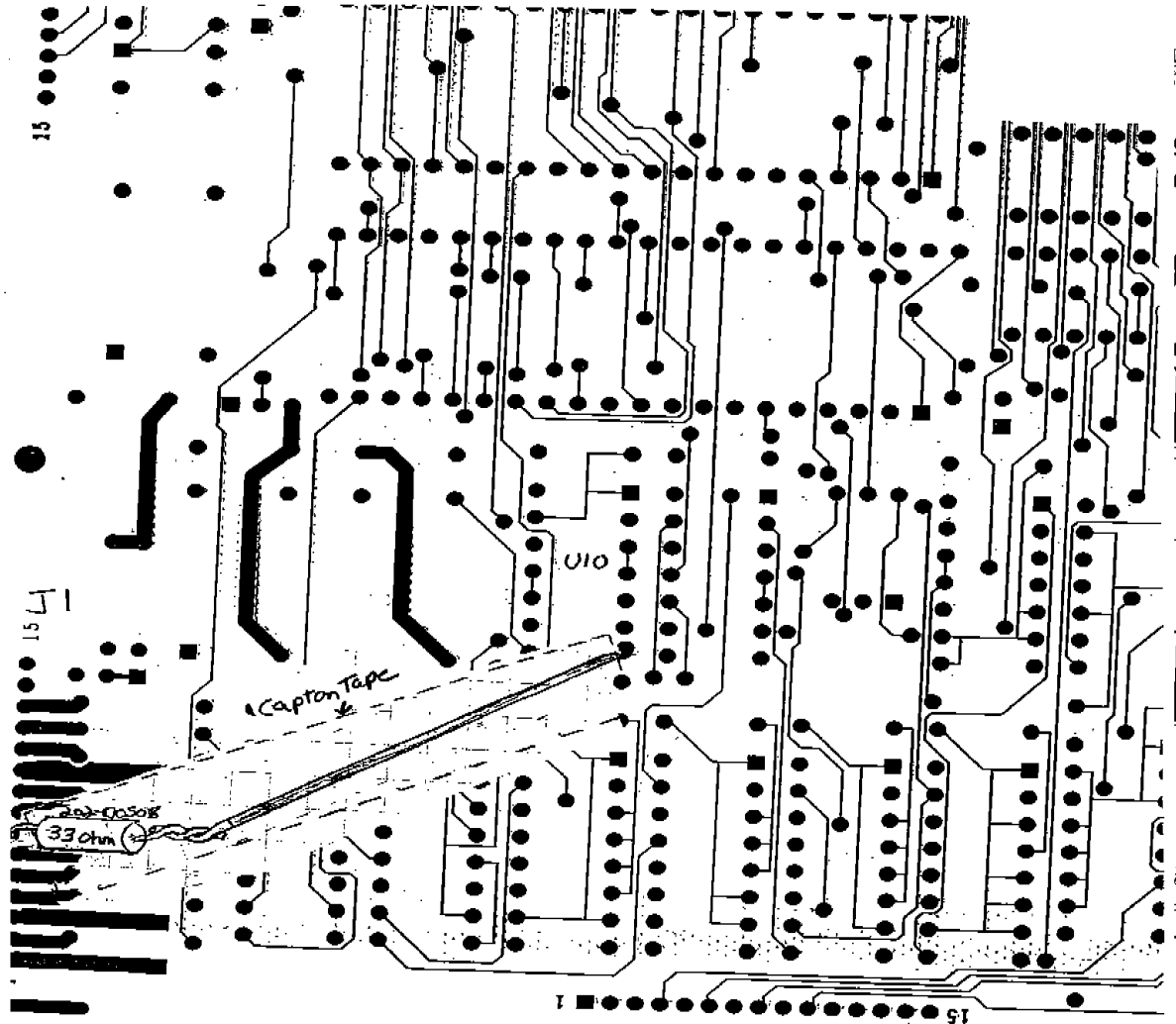


LEXICON		
PC BD, HOST BD, M300L		
PC ARTWORK, TDM SIGNATURE		
DRAWN	CW 10/5/94	DWG. NO: 030 - 1
CHECKED	JRW 10/6/94	
Q.C.	RWH 10/6/94	SCALE 1 : 1
ISSUED	JW 10/5/94	

710-10780 Rev 0 PC BD,HOST,M300L

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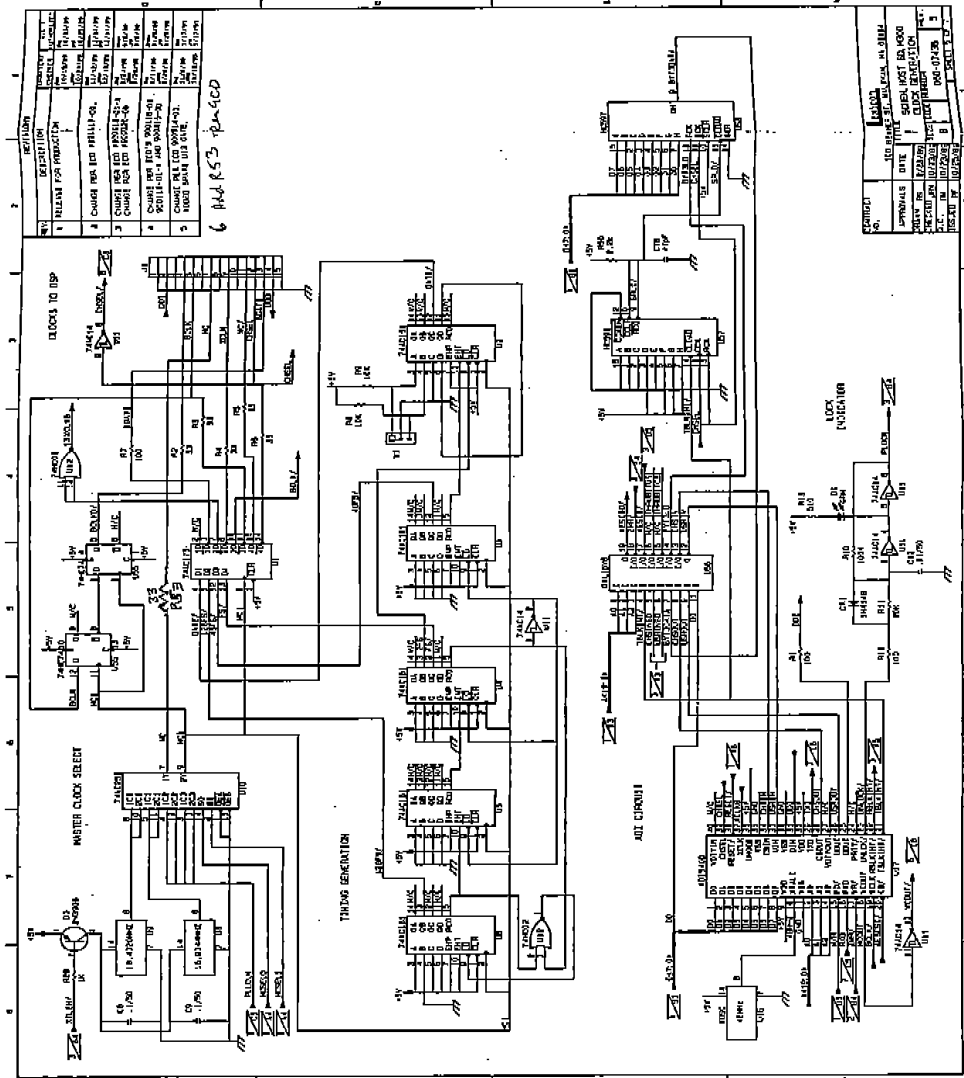


Host Board Solder Side

710-10780 Rev 0 PC ED,HOST,M300L

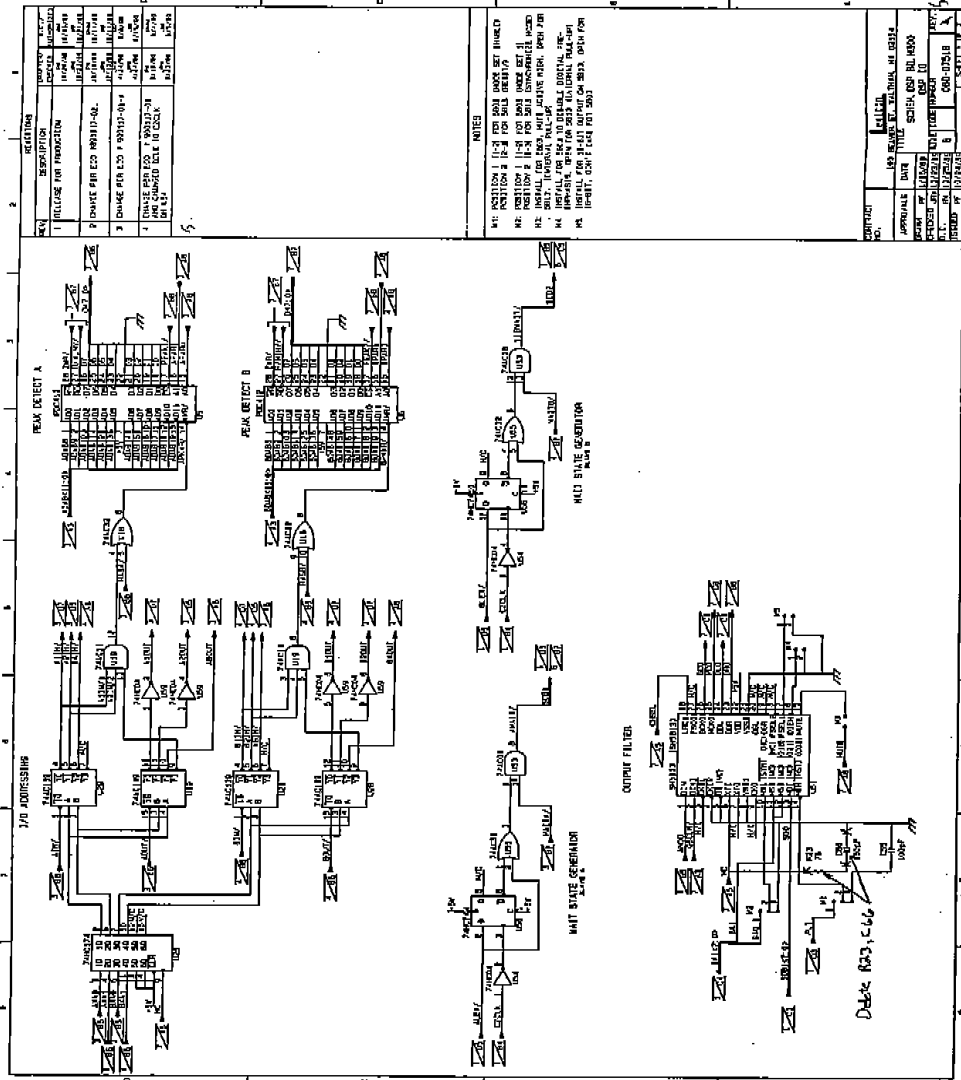
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REV	DESCRIPTION	REVISION
1	INCLUDE FOR PRODUCTION	
2	CHANGE PER ECO M300-D-02	
3	CHANGE PER ECO P 30010-D-1	
4	CHANGE PER ECO P 30010-D-2	
5	ADD CHANGE LEVEL IN C200	
6		
7		
8		
9		
10		

APPROVAL	DATE	DESIGNER	DATE	TESTER	DATE	STATUS

NOTES

1. PER POSITION 1 FOR 30010 D-1
2. PER POSITION 2 FOR 30010 D-2
3. PER POSITION 3 FOR 30010 D-3
4. PER POSITION 4 FOR 30010 D-4
5. PER POSITION 5 FOR 30010 D-5
6. PER POSITION 6 FOR 30010 D-6
7. PER POSITION 7 FOR 30010 D-7
8. PER POSITION 8 FOR 30010 D-8
9. PER POSITION 9 FOR 30010 D-9
10. PER POSITION 10 FOR 30010 D-10

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