AUDIOACCESS

PX-600

MULTI-ROOM PREAM/CONTROLLER

PRELIMINARY SERVICE MANUAL

Harman Consumer Group
250 Crossways Park Dr.
Woodbury, New York 11797

FEATURES

Six Zone, Multi-Room, Multi-Source Audio System

Flagship of the Audioaccess product line, the PX-600 Multi-Room Preamp/Controller forms the heart of a powerful multi-room audio system. Together with our time proven wall-mounted keypads and conventional audio source equipment, the PX-600 allows you to access and control five different music sources in six different areas simultaneously. The PX-600 combines a learning IR based source controller with six independent stereo preamps to form a six zone system in one compact package. Multiple PX-600s are easily interconnected to form systems as large as 36 independent zones and the PX-600 can be readily interfaced to both complex home automation and home theater systems.

You can turn zones on or off, select sources, control their basic functions, and change volume independently in each zone, by just the touch of a single button on the KPS keypad. And unlike rotary volume controls, our low profile keypad blends seamlessly with any decor. The PX-600 can also be operated from its own optional handheld IR remote control from any zone. Of course, the main zone can always be operated from the PX-600's front panel. Learning to operate the system is simplicity itself. Keypads, remotes, and even the front panel have identical controls and operate in exactly the same way.

Customized System Operation

The PX-600 is configured at the time of installation via a detachable handheld programmer that is available only to authorized dealers, preventing casual tampering with the comprehensive system programming. Programmable features include: turn-on volume, maximum volume, lockout, bass and treble settings for each zone, group setup, paging setup, and specific IR protocols for tuners, CD players, high-capacity CD changers, tape players and VCRs, as well as special macro commands tailored for control of popular surround processors.

Optional modules provide door chime and paging capability and an RS-232 interface for integrating the PX-600 with computer-based home automation systems.

The PX-600 is complemented both functionally and aesthetically by a Multi-Room Expander and a Multi-Room Amplifier. This combination forms a solution for all of your multi-room needs.

Features

- Simple, intuitive operation
- Easy installation and programming
- External keypad termination board for easy hookup in advance
- Each zone has independent access to each of five audio inputs plus a paging input
- Infrared receiver built into each keypad
- Main zone rear panel IR input, compatible with standard IR repeaters
- Four-conductor wiring to keypads (two twisted pairs: telephone or data cable)
- External fuse protects keypad (mis) wiring
- Main zone operable via front panel – in addition to keypad
- Keypads control basic functions of audio sources via learned infrared commands
- External plug-in programmer (required for setup)
- Each zone assignable to one of three ALL ON groups (or none)
- Zone setup and infrared commands are stored in non-volatile memory
- Compatible with the Audioaccess six-zone, stereo, multi-room amplifier
- Compatible with the Audioaccess multi-room expander
- Expandable to 36 zones
- Paging and doorbell features available with optional Page/Doorbell Module
- RS-232 Interface Module available
- Compatible with other popular home automation and control systems
- Special grounding, filtering and intelligent circuit design for superior protection
- IR outputs compatible with industry standard systems
- Trigger outputs designed to drive relays for each zone
- System trigger output active whenever any zone is on
- IR loopthru output

Specifications PX-600 Multi-Room Controller

Audio Section

Inputs:

- Five stereo source inputs, 1 mono page input, each with loopthru capability
- Input impedance: 10k ohms
- Maximum input voltage: 3.5 Vrms

Outputs:

- Six stereo preamp outputs with independent volume, bass and treble
- Six stereo zone outputs (fix level post input selector)

- Tape output from the main zone (zone 6)

Source Equipment Control and Interface

Inputs:

- Trigger input to facilitate sharing source equipment (controls switched outlet and "stop" commands)
- Keypad interface connector
- DC voltage input for zone trigger outputs
- Hardwired IR input to control main zone from industry standard IR receivers

Outputs:

- Trigger output from each zone to control external relays
- One system trigger output to control external relay (active when system is on)
- Six infrared emitter jacks, one for each audio source (5) plus ALL
- IR loopthru output
- Switched AC outlet (North American model only)

Controls:

- Front panel controls zone 6 (controls: power, source selectors, volume, mute, and All Off)
- Independent source selection: Tuner, CD, Tape, Aux, Video, etc.
- Control of basic source functions (i.e. play, skip track, skip disc, skip preset, fast forward, etc.)
- Independent volume control per zone
- Independent On/Off per zone
- Programmable All On features

Specifications	Preamp Outputs	Zone Outputs
Frequency Response	10-84kHz, +0, -1 dB	10-95kHz, +0, -1 dB
S/N (ref: 1kHz, 1 Vrms, Filter at 22kHz, Volume at unity gain	> 99 dBV	> dBV
THD+Noise (@ 1kHz, Filter at 80kHz, Volume set at unity gain	<0.008% (500mV input signal)	<0.004% (1Vinput signal)
Maximum Output Level	3.5 Vrms	3.5 Vrms
Output Impedance	470 ohms	470 ohms
Left/Right Crosstalk (@1kHz, each input)	<-85 dB	<-85 dB
Input to Input Crosstalk (@ 1kHz, any two inputs	<-100 dB	<-100 dB
Zone to Zone Crosstalk (@ 1kHz, any two zones	<-100 dB	<-100 dB
Maximum Gain	20 dB	Unity
Volume Control	80 dB in 2 dB steps	N/A
Bass (Shelving type, 100 Hz)	+15, -12 dB (3 dB steps)	N/A
Treble (Shelving type, 10kHz)	+12, -12 dB (3 dB steps)	N/A
Signal Connector Type	RCA with short hot pin (makes shield connection first)	

Power Requirements:

- 115 volts AC, 50Hz, 40 watts (not including equipment connected to switched outlet)

Dimensions/Weight:

- 17-3/8" W x 4" H x 15" D (442mm x 102mm x 381mm) (with connectors & feet)
- 12.2 lb (5.5 kg)

PX-600 PRODUCT DESCRIPTION

The PX-600 is a multi-room pre-amp/controller for six zones. It includes five audio inputs, six stereo pre-amps and an infrared (IR) interface for controlling audio and video sources. Up to six PX-600s may be connected together for a total of 36 independent zones. Each zone may be controlled from a simple, eight-button, wall-mounted keypad or with an Audioaccess hand-held IR remote control through the IR receiver in each keypad. The main zone may be controlled from the front panel as well as the keypad or IR remote. You may access independent on/off, volume control, source selection and source control in each zone.

The PX-600 IR outputs, used to control source equipment, are fully compatible with industry standard IR systems. These outputs may be combined with the outputs of most IR repeaters. An IR repeater may be connected directly into the back panel of the PX-600 for control of the main zone as an alternative to the front panel IR input.

The optional Page/Doorbell Module (PDM) provides paging and door chime capability through any or all zones of the PX-600. Another optional module, the Multi-room Computer Interface (MCI), allows control of the PX-600 from computer-based home automation systems.

Zone setup and IR source control programming is done by the installer with a detachable PX-600 Programmer. The PX-600 Programmer plugs into the left end of the front panel on the PX-600.

General Features

- Simple, intuitive operation, installation and programming
- External keypad termination board for easy advance hookup/troubleshooting
- Independent access to each of five audio inputs and paging input in each zone
- Independent volume control and programmable EQ in each zone
- Infrared receiver built into each keypad
- Four-conductor wiring to keypads (unshielded telephone or data cable, or shielded twisted pairs)
- External fuse for protection from shorted keypad wiring
- Main zone operable from front panel, keypad or IR remote
- Keypads control basic functions of audio sources via learned infrared commands
- External plug-in programmer (required for set-up)
- Zone setup and IR commands stored in non-volatile memory
- Each zone assignable to one of three ALL ON groups (or none)
- Compatible with the Audioaccess PX-612 six-zone, stereo, multi-room amplifier
- Compatible with the Audioaccess PX-603, stereo, multi-room zone expander
- Paging and doorbell features available with optional Page/Doorbell Module
- RS-232 interface with optional MCI for use with home automation systems
- Special grounding, filtering and intelligent circuit design for superior protection
- Zone trigger outputs drive relays independently for each zone
- System trigger output active when *any* zone is on
- Main zone rear panel IR input, compatible with standard IR repeaters
- IR outputs to source equipment compatible with industry standard systems
- IR loop-thru output

Inputs

- Five stereo audio inputs, and a mono paging input
- Paging trigger for the Page/Doorbell Module
- System trigger input allows sharing of audio sources with other systems
- Voltage input for operation of zone triggers
- Four-conductor keypad input
- Rear panel IR input
- AC power input

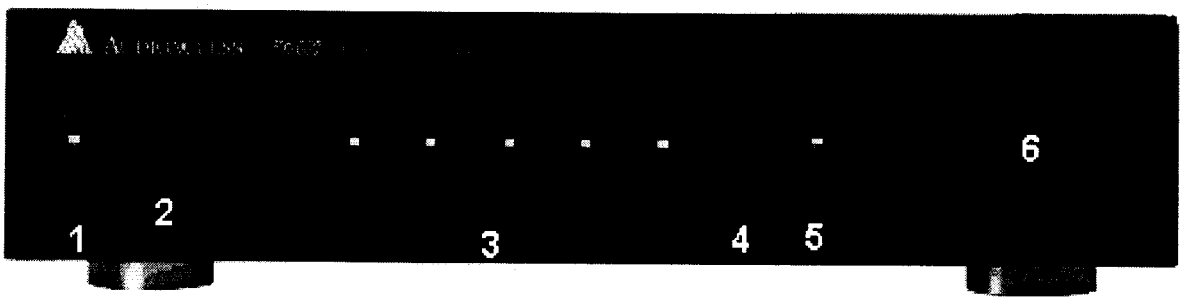
Outputs

- Loop-thru audio output for each audio input
- Six independent pre-amp outputs w/independent volume, bass and treble
- Six independent fixed level outputs monitor source selected in each zone, used with PX-603
- Record output from the Main Zone (Zone 6)
- System trigger output to control a relay
- Six zone trigger outputs to control relays for each zone
- Six discreet IR emitter jacks, one for each audio input, and one installer defined blaster or emitter
- Loop-thru IR output to control other equipment from an IR repeater
- Switched AC power outlet (200 Watt max)

Technical Specifications

Specification	Preamp Outputs	Zone Outputs
Frequency Response	10 - 84k Hz, +0, -1 dB	10 - 95k Hz, +0, -1 dB
S/N (ref.: 1k Hz, 1 Vrms, filter at 22k Hz, Volume at unity gain)	>99 dBV	>100 dBV
THD + Noise @ 1k Hz, Filter at 80k Hz, Volume set at unity gain)	<0.008% (500m V input signal)	<0.004% (1 v input signal)
Maximum Output Level	3.5 Vrms	3.5 Vrms
Output Impedance	470Ω	470Ω
Left/Right Crosstalk (@ 1k Hz, each input)	<-85 dB	<-85 dB
Input to Input Crosstalk (@ 1k Hz, any two inputs)	<-100 dB	<-100 dB
Zone to Zone Crosstalk (@ 1k Hz, any two zones)	<-100 dB	<-100 dB
Maximum Gain	20 dB	Unity
Volume Control	80 dB in 2 dB steps	
Bass (Shelving type, 100 Hz)	+15, -12 dB (3 dB steps)	N/A
Treble (Shelving Type, 10k Hz)	+12, -12 dB (3 dB steps)	N/A
Connector Type:	RCA with short hot pin (makes shield connection first)	
Power requirements:	115volts AC, 50Hz, 40 watts (not including equipment connected to switched outlet)	
Dimensions:	17 3/8" W x 4" H x 15 1/2" D (442 mm x 102 mm x 394 mm) Includes connectors, front panel knob and feet	

FRONT PANEL



1. Power

   The POWER button turns the Main Zone (Zone 6) on and off. Press-and-hold the POWER button to turn on all zones that are set to the same ALL ON group as the Main Zone.

2. Infrared Input Window

   Behind this window is an infrared input eye for controlling the Main Zone with a handheld IR remote control.

3. Source Input Selection Buttons

   The TUNER, CD, TAPE, AUX and VIDEO buttons select and control the audio sources for the Main Zone (Zone 6). There are three programmable commands (plus STOP) for each audio source and eight commands for the video source. There are also macros and special command sets for CD changers, etc.[1]

4. Mute

   Pressing the MUTE button mutes the audio in the Main Zone (Zone 6). Pressing the MUTE button again restores the audio. The red LED beside the button will light when mute is active. In the ALL ON mode, the MUTE button mutes the audio in all the zones in the same ALL ON group as the Main Zone.

5. All Off

   Pressing the ALL OFF button turns off *all zones in all PX-600s*, regardless of the ALL ON zone grouping.

6. Volume Knob

   The volume knob controls the volume level in the Main Zone. In the ALL ON mode, it controls the volume level of all the zones assigned to the same ALL ON group as the Main Zone. (For further information on Volume knob function and control, see the Learn IR section on Zone Six Macro.)

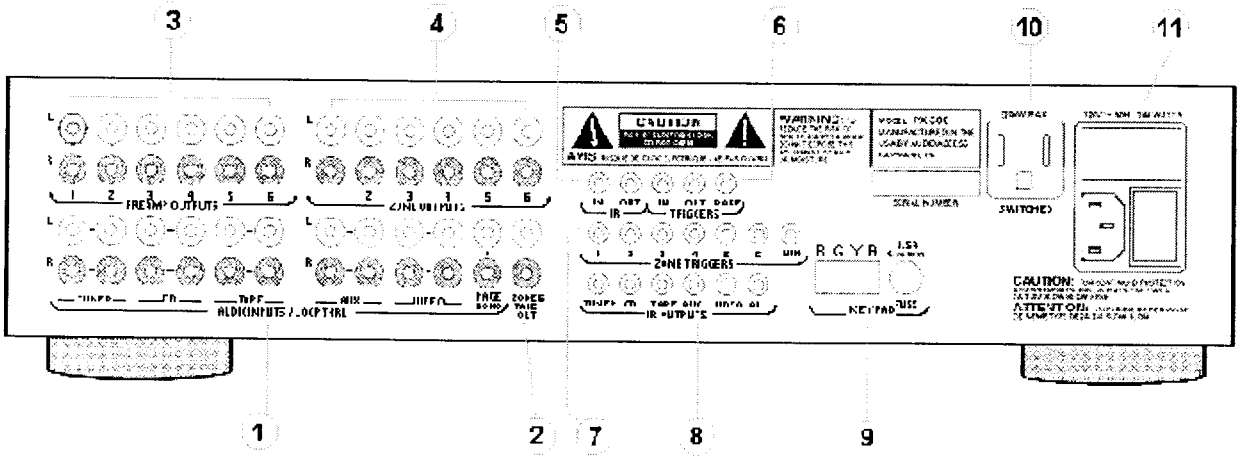
7. PX-600 Programmer Input

   (26-pin dual row IDC connector)

   A detachable PX-600 Programmer (sold separately) accesses zone setup and IR programming. It plugs into the **left side** of the front panel on the PX-600. Remove the plastic end cap to access the input connector (not labeled).

[1] All of these functions can be customized for your particular application.

REAR PANEL



1. Audio Inputs / Loop-Thru *(RCA connectors)*

   The AUDIO INPUTS and PAGE INPUT have corresponding LOOP-THRU OUTPUTS for connecting sources to multiple PX-600s or to other systems which share the same sources (e.g. surround-sound processors or other receivers).

2. Zone 6 Tape Out *(RCA connectors)*

   Connect this output to the input of the tape deck used for recording. The signal selected in the Main Zone (Zone 6) is routed to this output.

3. Preamp Outputs *(RCA connectors)*

   There is one stereo PREAMP OUTPUT per zone. These variable outputs are controlled from the keypads, IR remotes or front panel. They can be programmed as fixed outputs if required.

4. Zone Outputs *(RCA connectors)*

   These are fixed unity gain outputs for each zone designed specifically to provide audio source to the PX-603. They may also be used as fixed outputs to an amp that powers speakers through passive attenuators (autoformers). However, if the amplifier has a signal-sensing power circuit, use the zone trigger output to activate the amp, as signal is always present at <u>all</u> of the zone outputs when any zone or PX-603 room in the system is on.

5. IR In/Out *(mono 1/8"/3.5mm mini-phone jacks)*

   The IR IN jack allows hook up of an IR repeater to control the Main Zone (Zone 6) of the PX-600. Use this when installing the PX-600 in a closed cabinet. This automatically disables the IR receiver on the front panel. Plug an emitter into the feed-thru IR OUT jack to control other equipment. Normally, the PX-600 controls the basic functions of the audio sources, unless the system requires control of more than the basic functions or access to other equipment such as lighting and drapes, etc.

6. Triggers (mono 1/8"/3.5mm mini-phone jacks)

Use the TRIGGER IN when sharing sources with a system other than another PX-600. A 12VDC input from the local system (such as an AC adapter plugged into a switched outlet) switches on the AC OUTLET of the PX-600 then sends IR POWER and STOP commands if necessary and alerts the PX-600 system that the sources are in use. Thus, the STOP and POWER commands are not sent while sources are also being used by the auxiliary system(s).

The TRIGGER marked OUT is active whenever any zone is on. It provides a means to energize a 12VDC relay while any zone in the system is on. Relays connected to this trigger activate whenever any zone in the system comes on.

Use the PAGE TRIGGER with the Page/Doorbell Module. When this jack is shorted, all zones programmed to receive paging and doorbell signals switch to the PAGE AUDIO INPUT until the jack is un-shorted. See instructions enclosed with the Page/Doorbell Module.

7. Zone Triggers (mono 1/8"/3.5mm mini-phone jacks)

The ZONE TRIGGERS provide a means to energize a relay per zone while that zone is on. Relays connected to these triggers activate whenever the particular zone comes on. You may want to switch on a remote amplifier for that zone, or you may develop some other creative application. Determine the voltage and current requirements of the relays you intend to use, then connect a power supply to the VIN (Voltage Input) next to the ZONE TRIGGERS. This power supply drives the relays attached to any of the ZONE TRIGGERS at the voltage selected.

8. IR Outputs (mono 1/8"/3.5mm mini-phone jacks)

Audio sources connected to the PX-600 are controlled by IR commands taught to the PX-600. Source specific IR OUTPUTS for each of five audio inputs allow multiple tuners, CD players or tape desks of the same brand to be controlled independently. IR Commands can be sent to the sources either via a 1/8" mono mini-plug from the IR Output to an IR input jack on the source equipment or through an IR Emitter glued over the IR receiver on the source.

The jack marked ALL may be connected to a blaster-type IR output device for control of multiple sources. Or, you may use it with a 1/8" mini-plug to control source components which have opto-isolated IR input and output jacks on their back panels. Jumper inside the unit behind IR jack can switch the ALL IR output for use as a blaster or an emitter output.

9. Keypad *(4-conductor pluggable screw terminal)*

The PX-600 comes equipped with one detachable 4-conductor screw terminal connector. Connect a single keypad or the last leg of daisy-chained cable from the keypads into this connector. If keypad cables are home run, connect them to a Keypad Termination Board (KPT), then run a jumper between the KPT and the PX-600.

(Fuse: 1-1/4", 1.5A, slo-blo for versions suffixed ¼ and lower)

(Fuse: US 5X20mm, 1.6amp,250v, slo-blo NON-US 5X20mm T 1.6amp 250v)

This fuse will blow if there is a short on the keypad line or one of the IR emitter outputs. When an emitter fails, it may short and cause the fuse to blow. Replace this fuse only with a fuse of the correct type and rating.

10. Switched Outlet (3-conductor grounded, 200Watt maximum)

This outlet turns on when the first zone is turned on, and off when the last zone is turned off. It is also controlled by an input to the system TRIGGER IN as described above. Use this outlet with a power strip to supply AC power for source equipment connected to the PX-600. It is not designed to handle an amplifier or any combination of components that draw more then 200 watts of current.

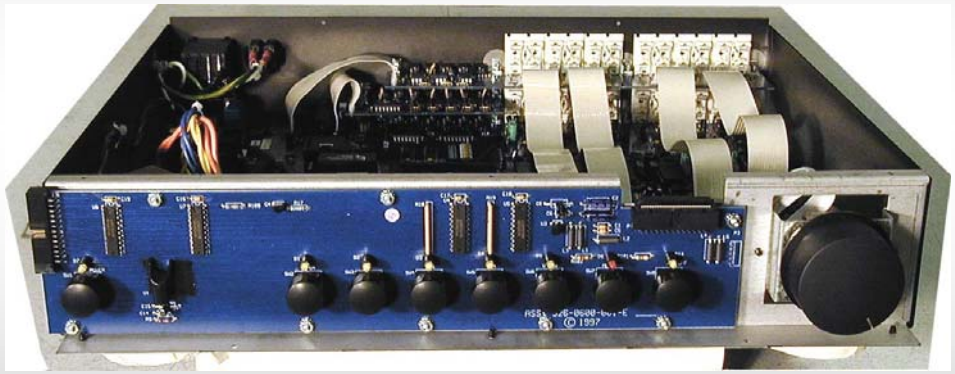
11. Power Module

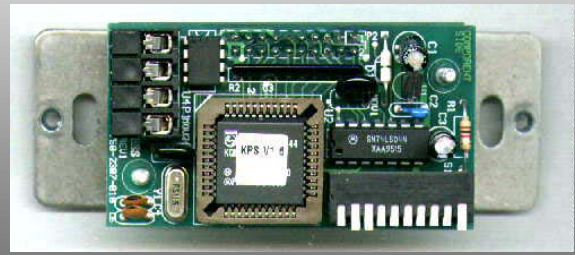
The POWER INPUT is a standard IEC type 3-prong male connector.

The POWER SWITCH turns the main power to the PX-600 on and off.

A 5mm x 20mm, 2A,(US) slo-blo fuse , a 5X20mm T 1A fuse (NON-US) is located in the drawer beneath the switch. One replacement fuse is located in the same drawer. Replace this fuse only with the correct type and rating.

PX-600
Field Repair





LOCK UPS or SLOW OPERATION

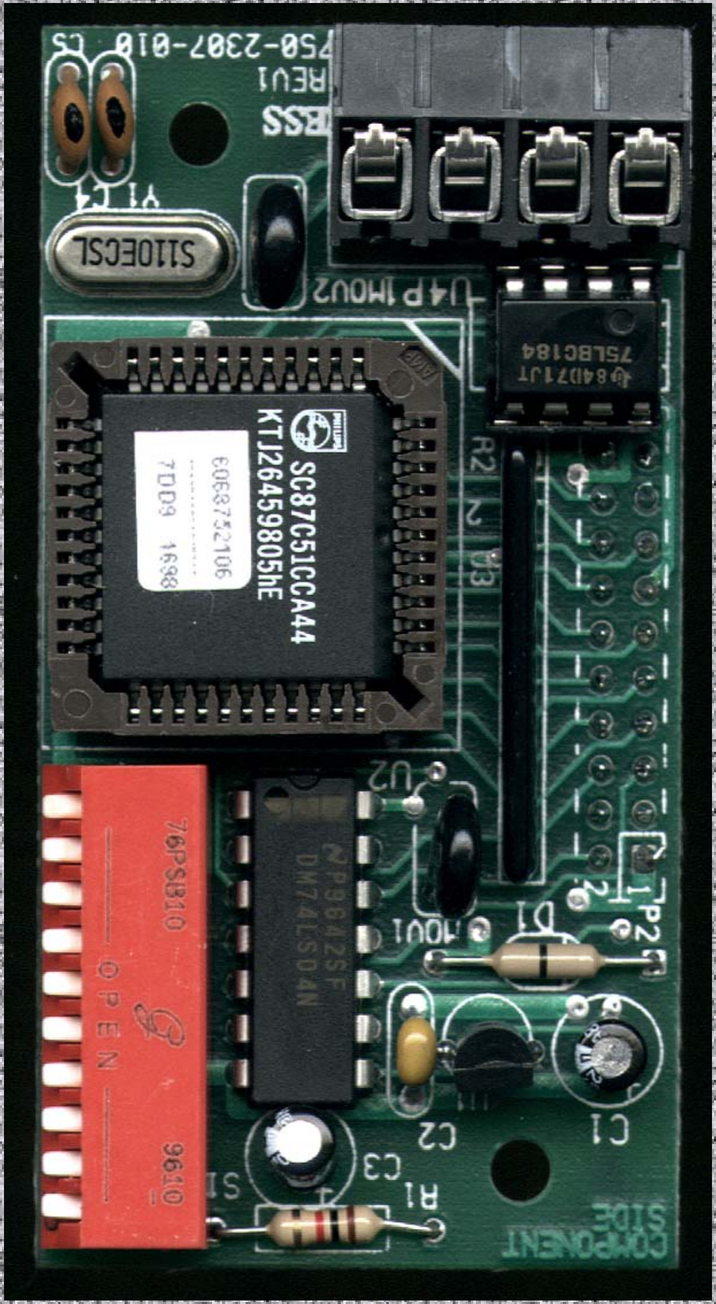
- **Incorrect Wiring**
- **IR Interference**
- **Keypad Termination Switch**

KEYPAD INSTALLATION

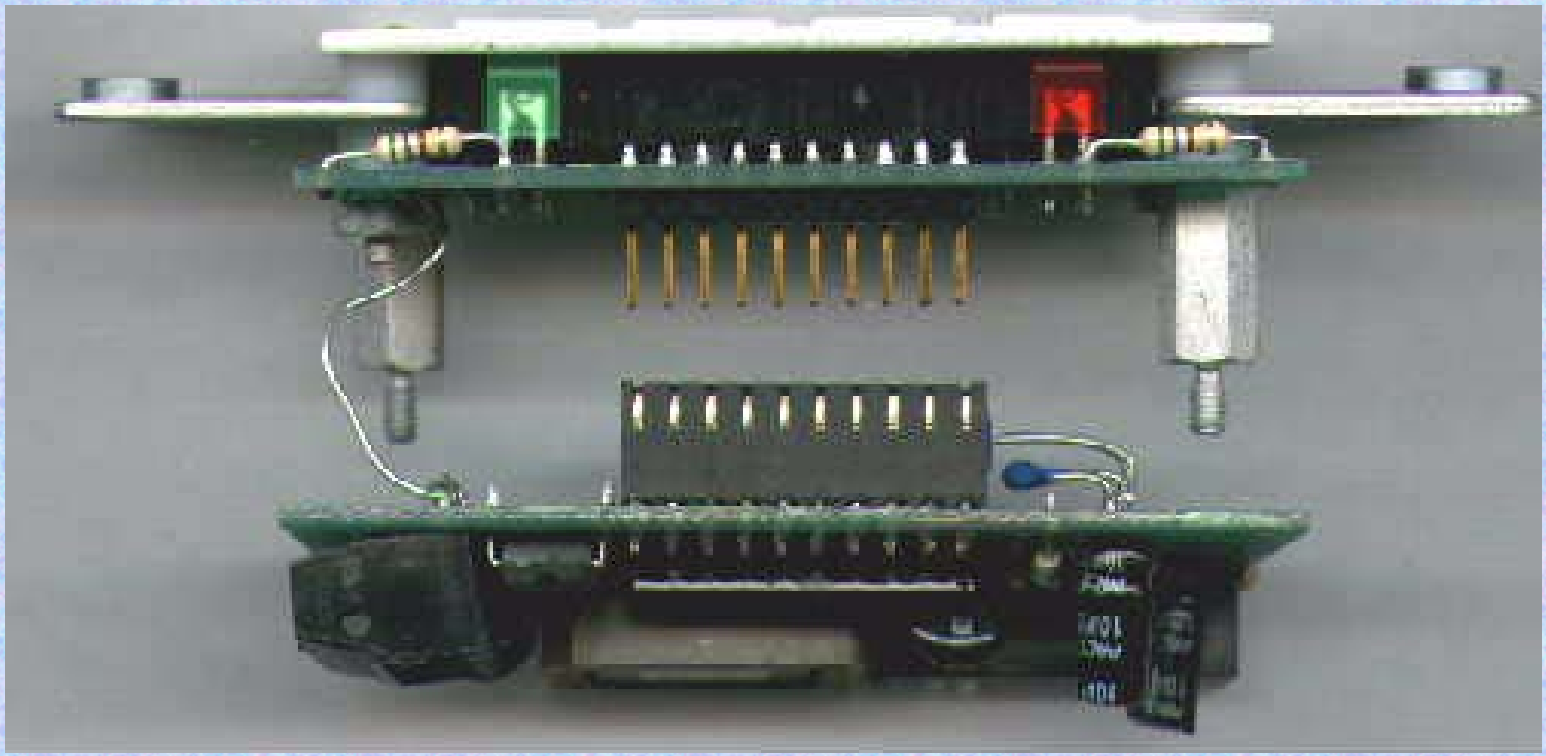
- **Make Tight Connections**
- **Insure Power, Ground, and Data wires are in Correct Order**
- **Provide Strain Relief On KPT**
- **Keep On hand Extra KPT Blocks**
- **Do Not “Insert” Insulation Into Connector**
- **Install Keypad with Termination Switch in “UP” Position (off)**

KEYPAD REPAIRS

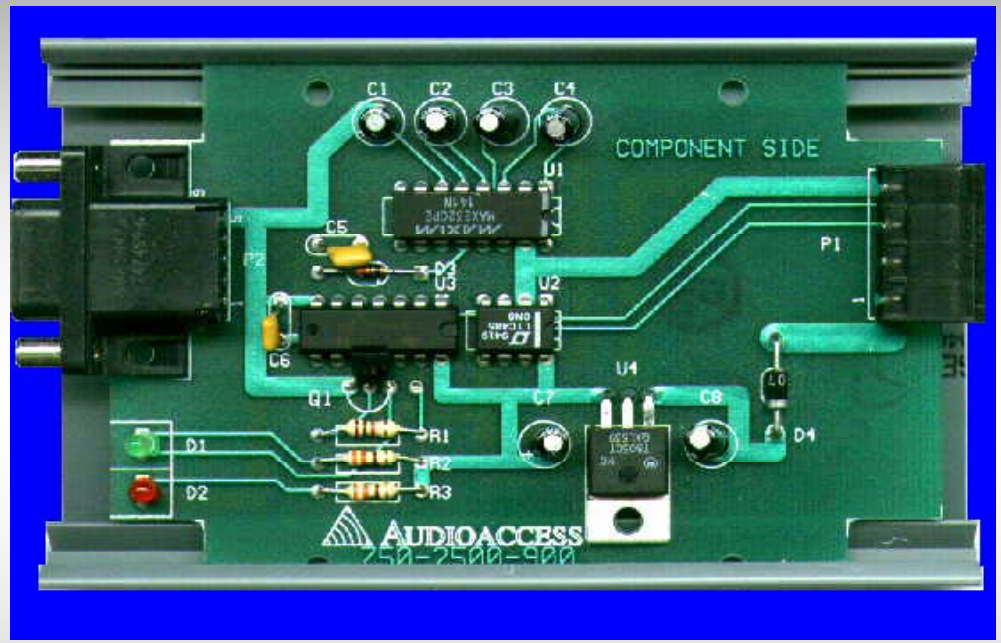
- **Replace RS 485 Driver**
- **Replace Keypad Processor Board**


SC87C51CCA44
DM74LS04N
75LBC184
OPEN
COMPONENT SIDE

Replacing Processor Board



Audioaccess MCI

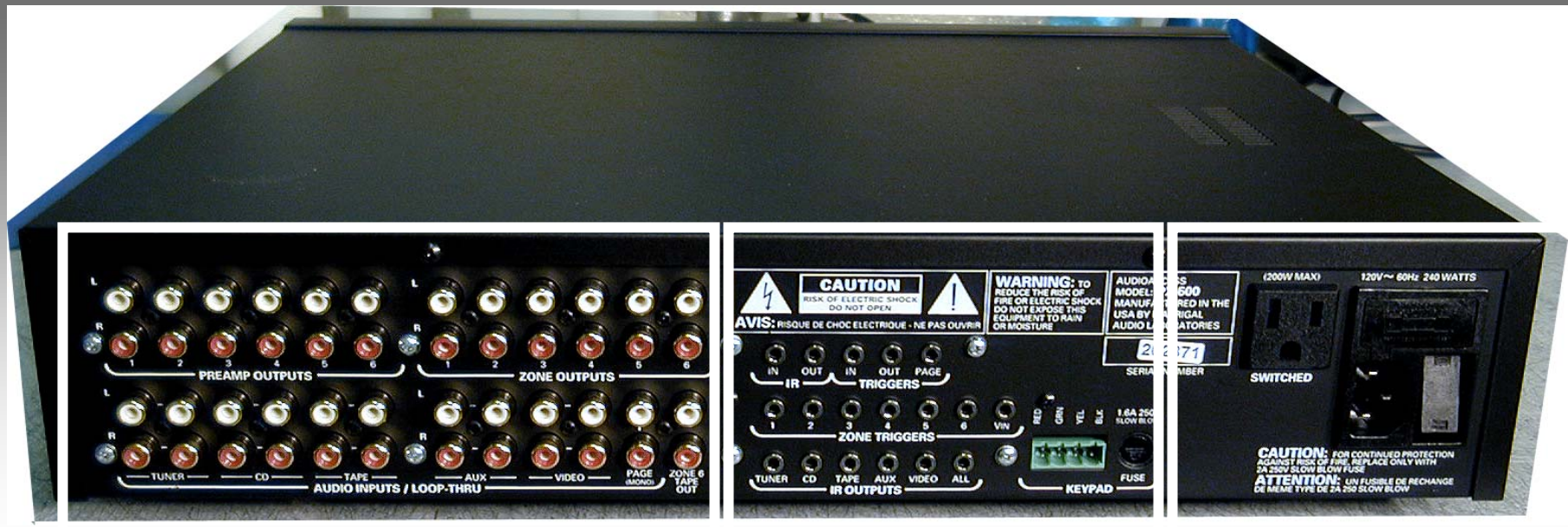


MCI Multi-room Computer Interface

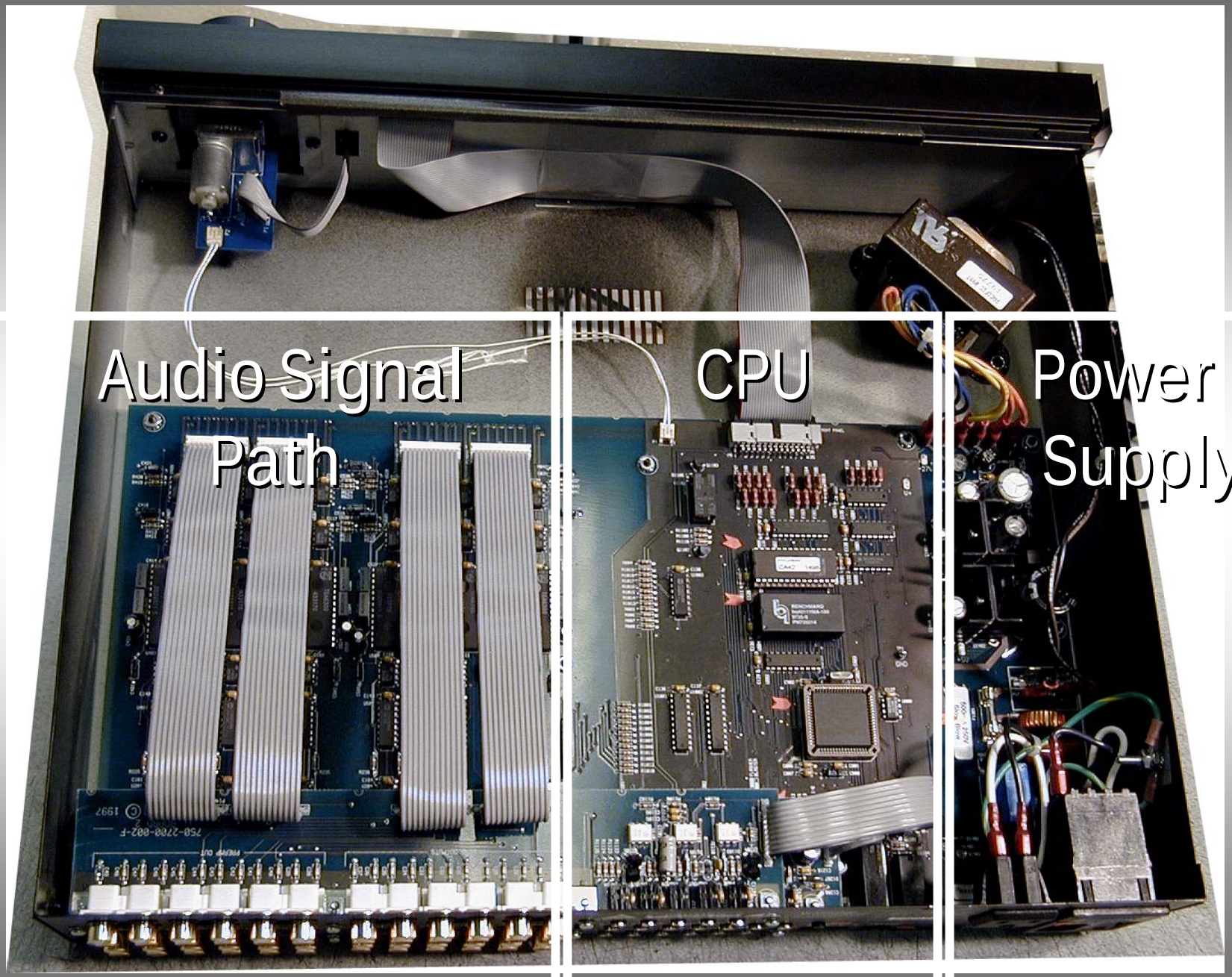
RS-232 to RS-485 Translator

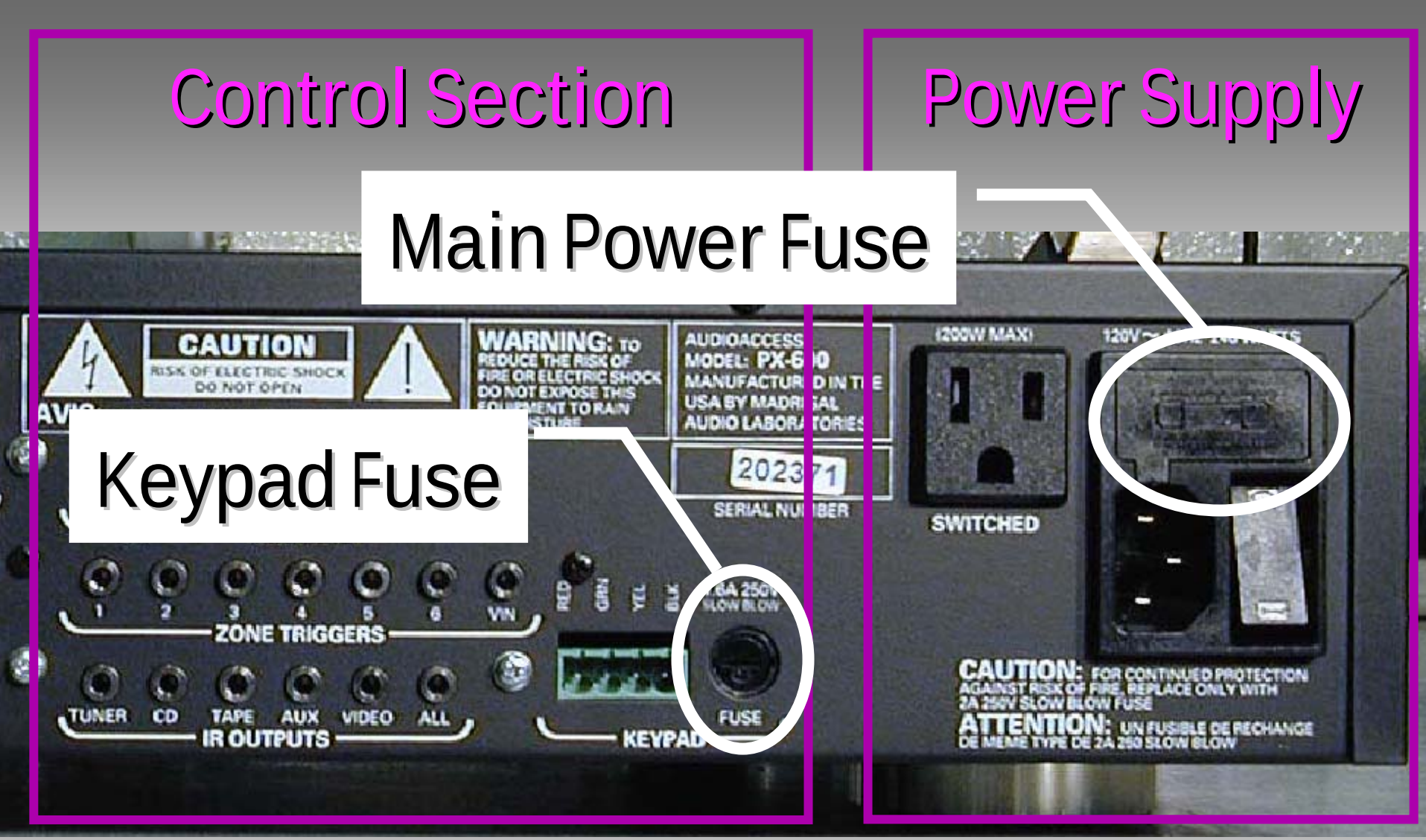
PX-600 Field Repairs

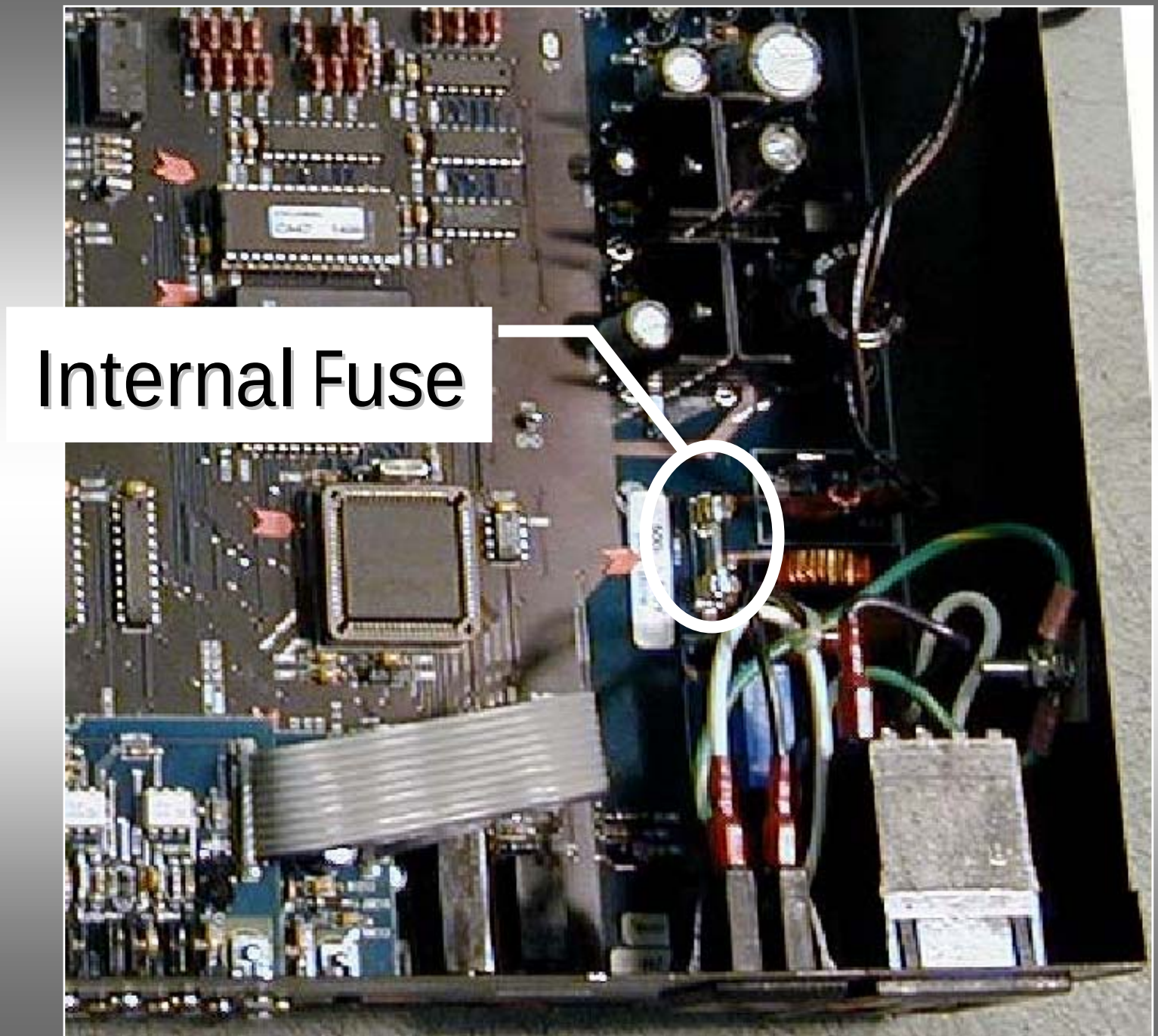
- **Unit Contains 3 Sections**
  - **Audio Preamplifiers**
  - **CPU**
  - **Power Supply**
- **Field Repairs May be Performed to Power Supply and CPU**



- Audio Signal Path
- CPU
- Power Supply


Audio Signal Path
CPU
Power Supply


Control Section
Power Supply
Main Power Fuse
Keypad Fuse
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
WARNING: TO
REDUCE THE RISK OF
FIRE OR ELECTRIC SHOCK
DO NOT EXPOSE THIS
AUDIOACCESS
MODEL: PX-6
USA BY MADRIGAL
AUDIO LABORATORIES
SERIAL NUMBER
1 2 3 4 5 6 VIN
ZONE TRIGGERS
RED GRN YEL BLK
FUSE
TUNER CD TAPE AUX VIDEO ALL
IR OUTPUTS
KEYPAD
(200W MAX)
SWITCHED
CAUTION: FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE, REPLACE ONLY WITH
2A 250V SLOW BLOW FUSE
ATTENTION: UN FUSIBLE DE RECHANGE
DE MEME TYPE DE 2A 250 SLOW BLOW


Internal Fuse

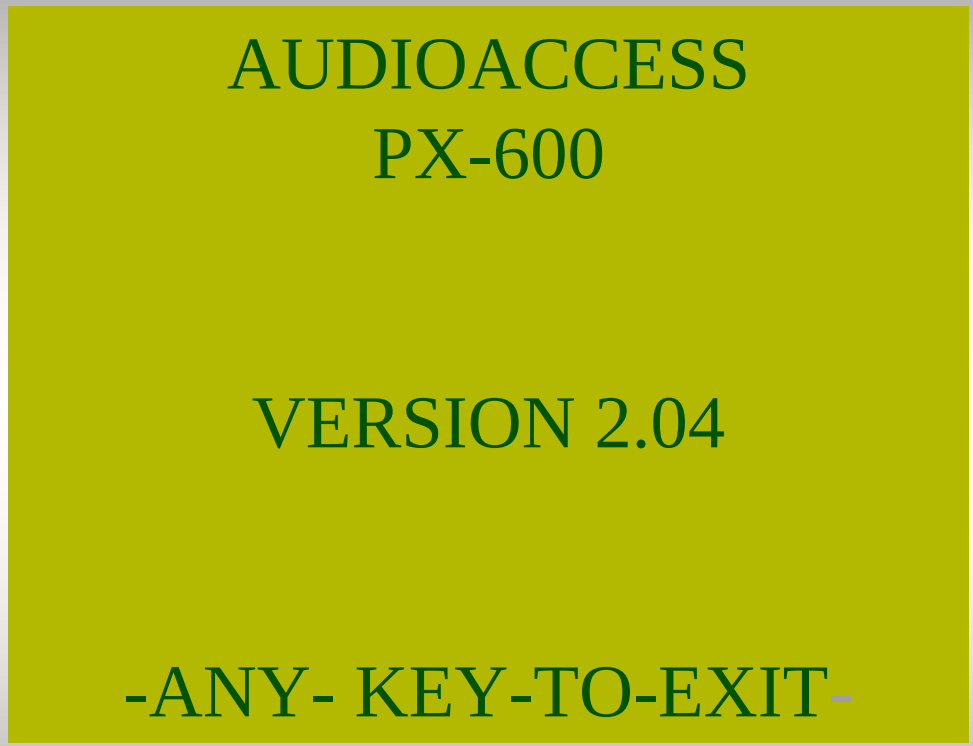
POWER SUPPLY FIXES

- **NO POWER**
  - **Replace Mains Fuse - 5 X 20 mm 2A Slow Blow**
  - **Replace Internal Fuse - F1301 - 5 X 20 mm 500 ma Slow Blow**

Main Power Issues

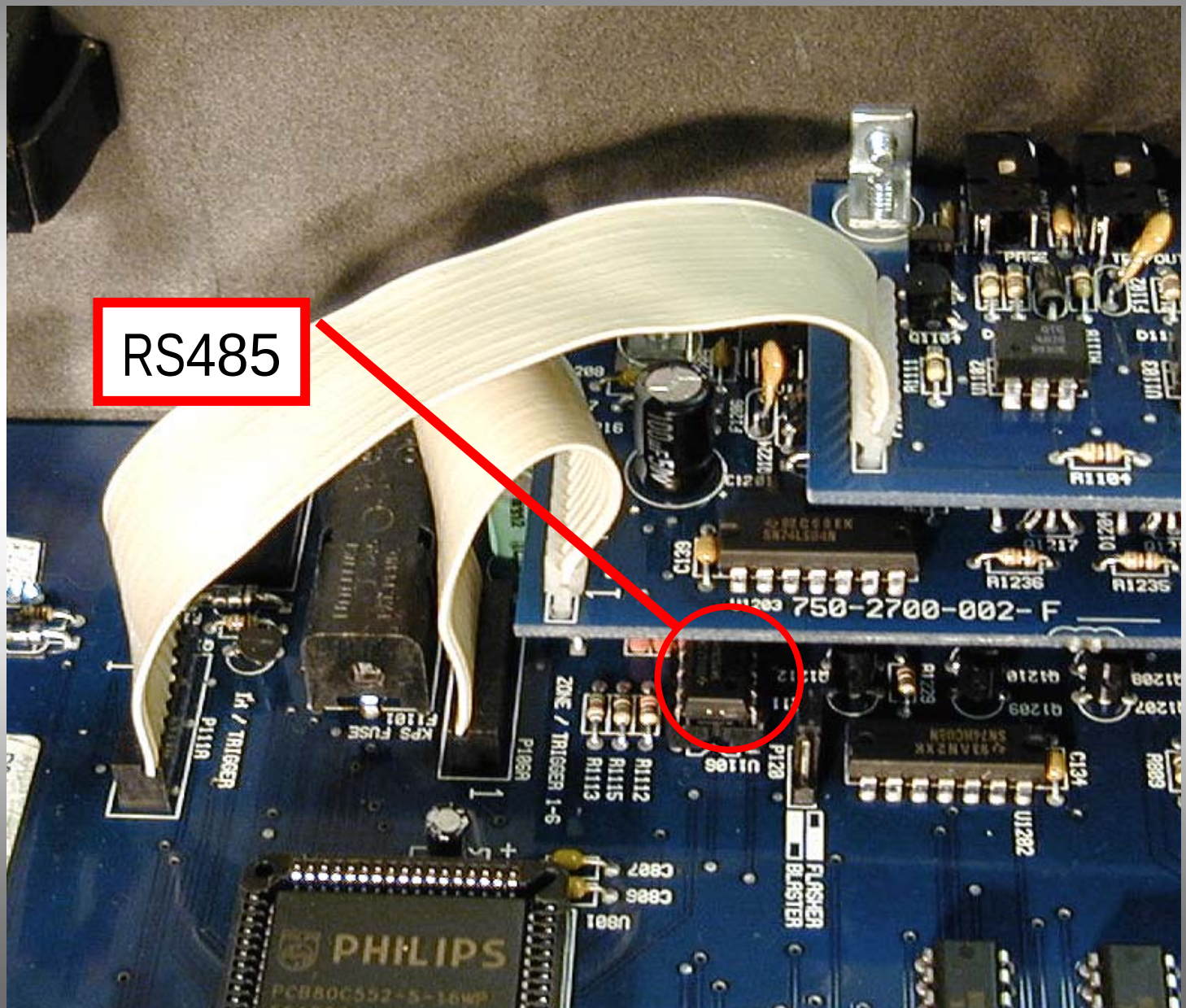
- Check Power Load on Convenience Outlet
  - Do not power amps directly with PX-600
  - Do not Exceed 200 Watts on PX-600 outlet
- AC Line condition +- 10% rated Voltage
- Use Un-switched Outlets for ALL Audioaccess Components
- PX-600 Powers UP but Cycles Power on and OFF?

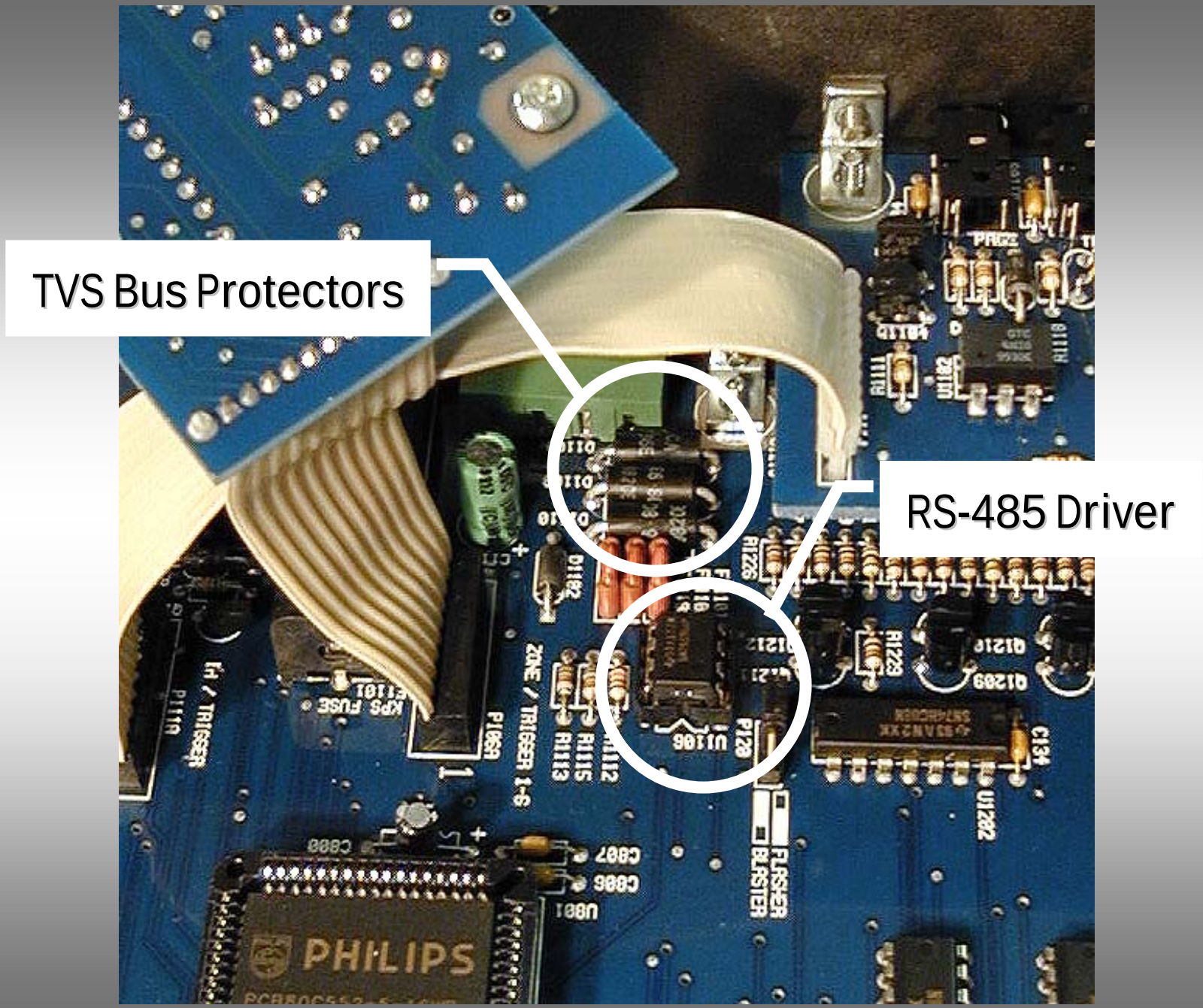
Unit Hard Power Up



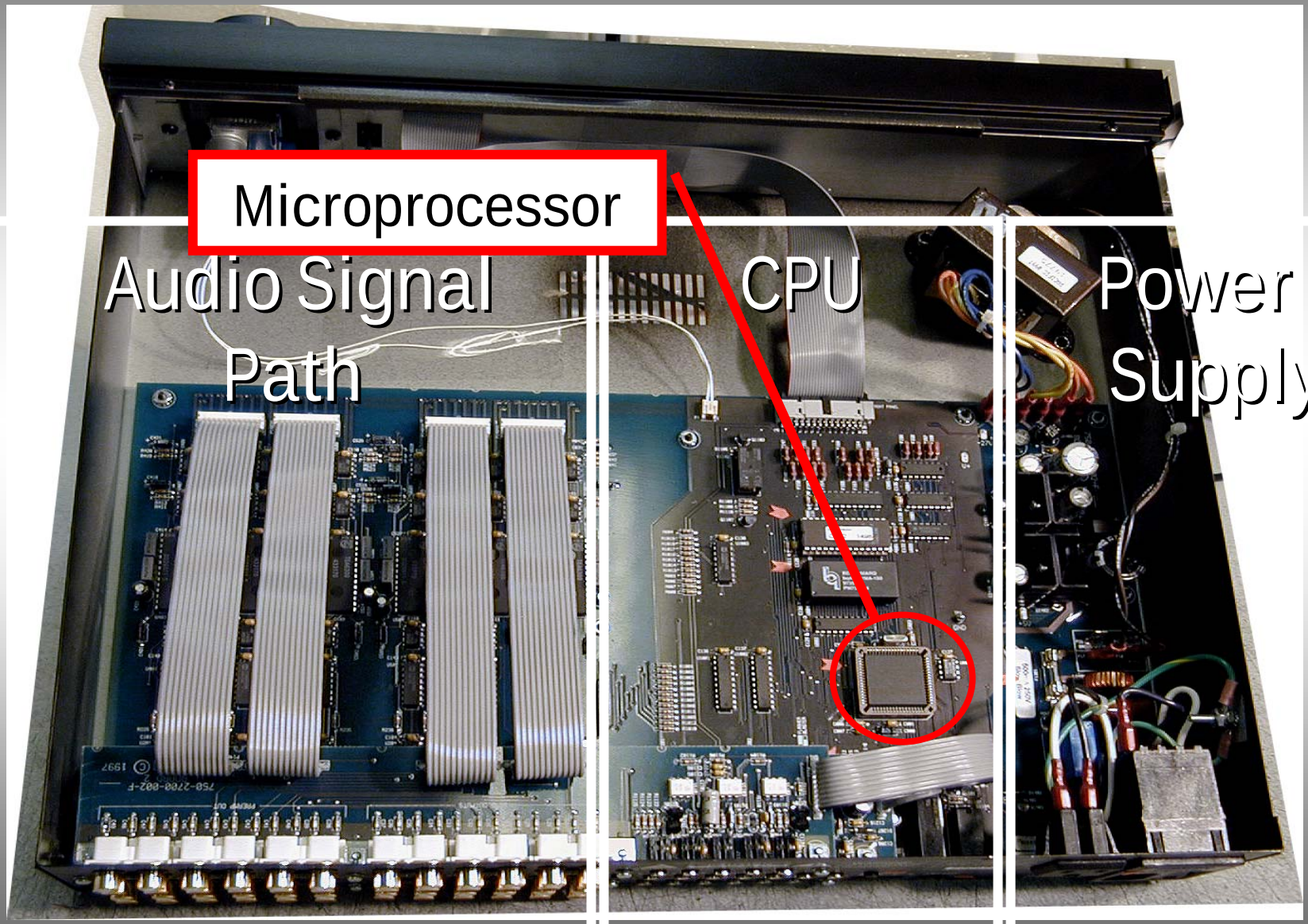
- **“ALL OFF ” LED on PX 600 Cycling On and Off**

Replacing RS-485 Driver




TVS Bus Protectors
RS-485 Driver
PHILIPS

PX-600 Internal Sections



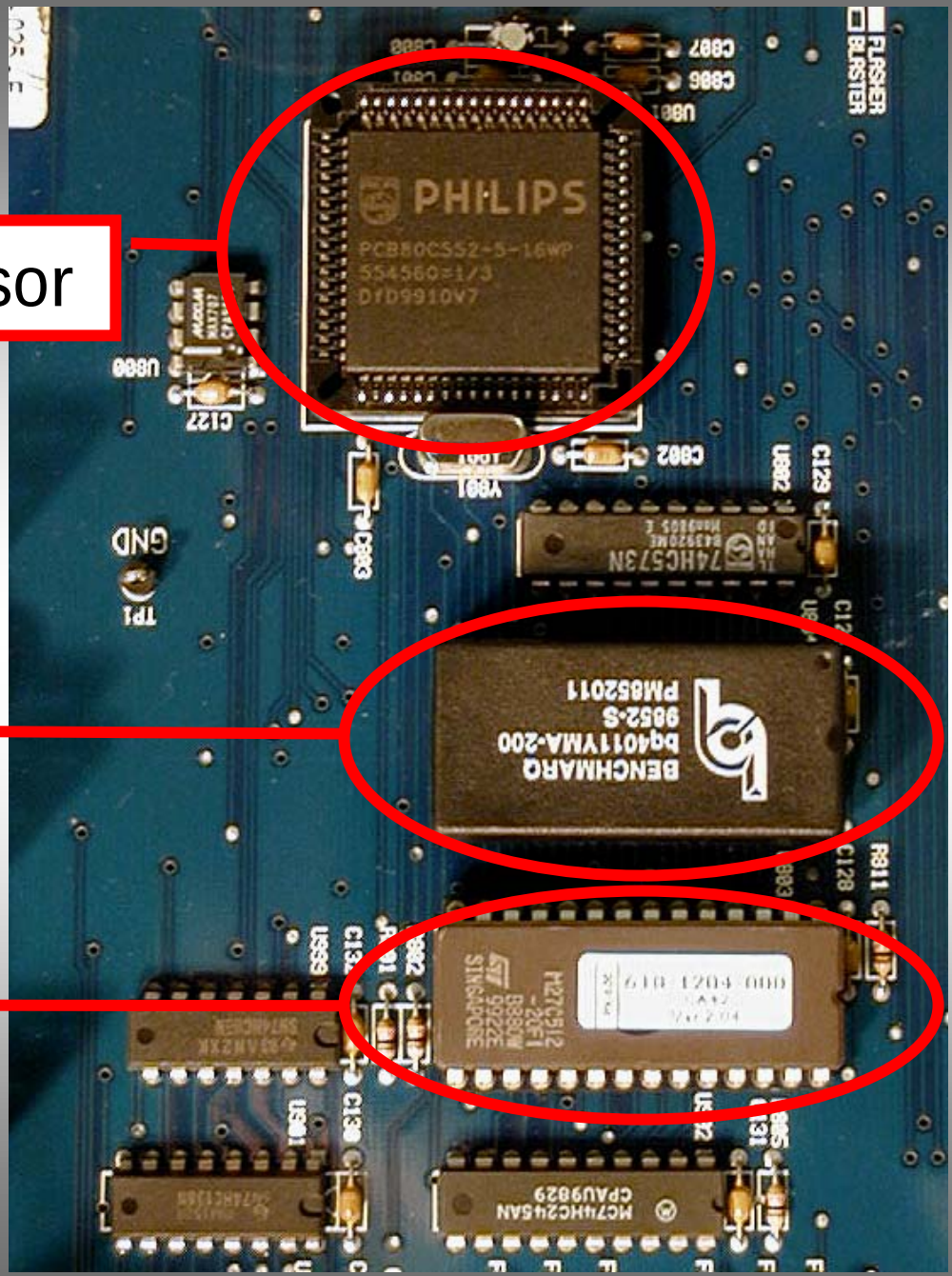
UNIT CYCLES ON AND OFF

- REPLACE RS-485 Driver
- Replace Microprocessor

Microprocessor

SRAM

EPROM



RS-485 or SRAM Problems

AUDIOACCESS
PX-600

VERSION 2.04

-ANY- KEY-TO-EXIT-

SOURCE EQUIPMENT
NOW LOADING……

Control Problem Descriptions

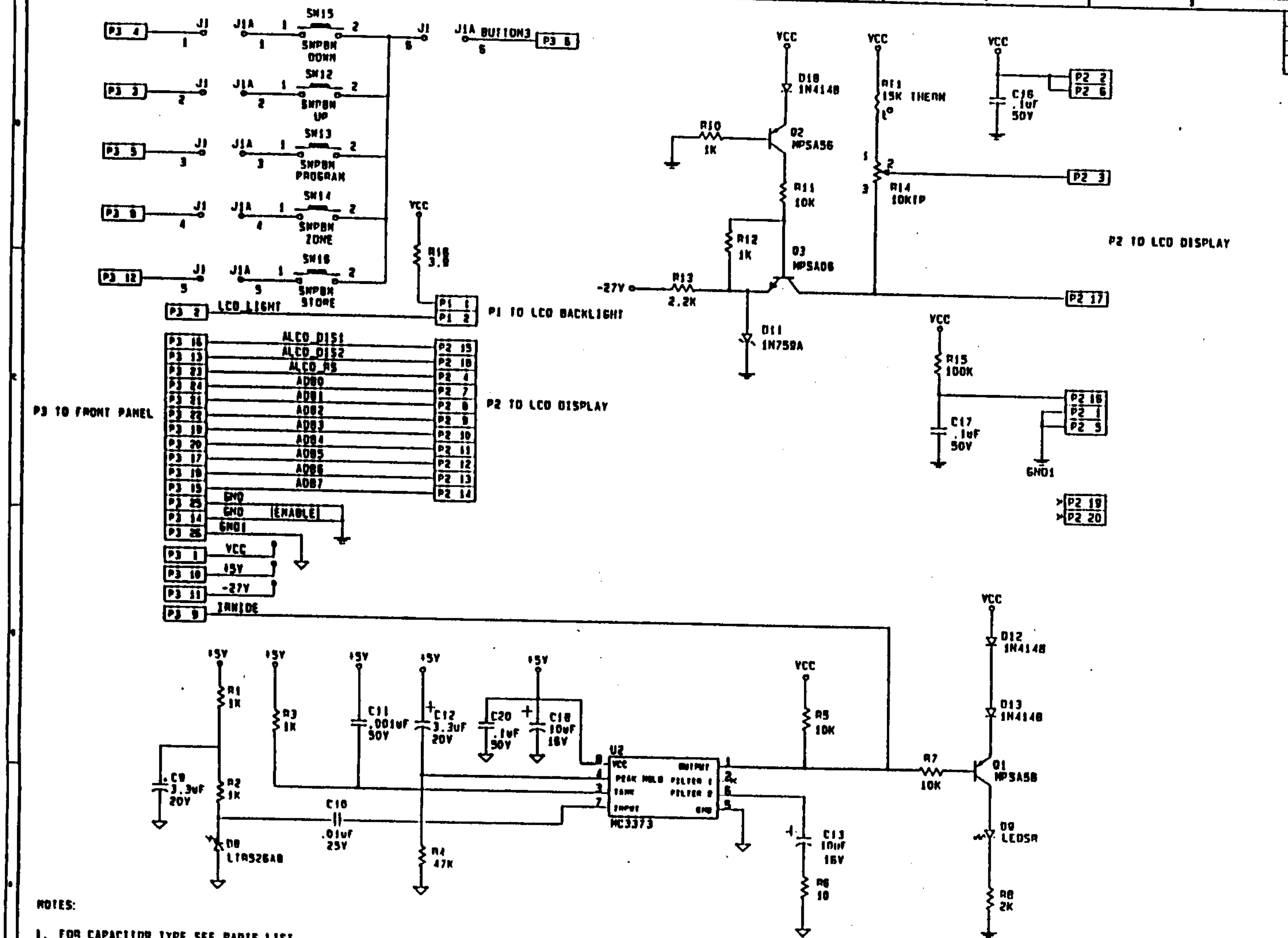
- Keypads Initialize but appear “dead”
- Intermittent Control or “Lock UP”
- No IR Output

Control Repairs

- Disconnect Keypad Bus and Check Unit From Front Panel
- Check Keypad Fuse
- Data Reset
- Replace RS 485
- Replace SRAM
- Replace EPROM
- Replace Microprocessor

PX-600 Programmer
Rev B0

BY [signature] 7/29/94



REV	DESCRIPTION OF CHANGE OR PREVIOUS STATE	DRAWN	DATE
A0	FIRST PROTOTYPE	LAN	12/27/93
B0	SECOND PROTOTYPE	LAN	3/2/94

NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/4W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.

AUDIOACCESS
PX600 PROGRAMMER
PX600HR.SCH
SHEET 1 OF 1
REV. B0

PX600 PROGRAMMER 7-28-94

PX-600 Main Board
Rev D2

PX-600 SCHEMATICS
CONTENTS

PX-600

MAIN BOARD

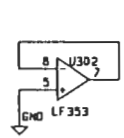
REV B0

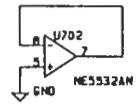
IC CHART

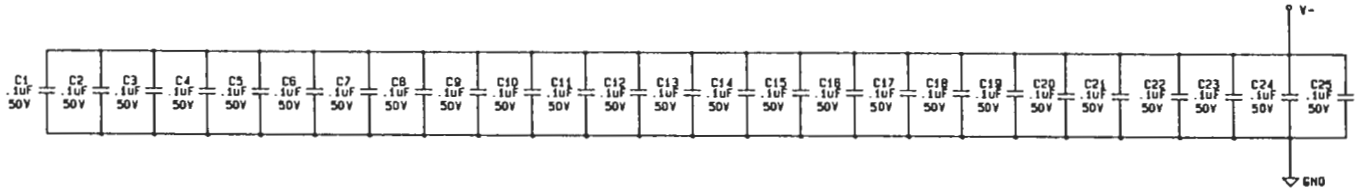
TYPE	VOLTAGE/PIN NO. V+	AGND	+5V	DGND	REFERENCE DESIGNATOR CHART	BYPASS CAP
LF353	8	4	N/A	N/A	U201, U202, U203, U204, U301, U302, U403,	C101-C124
			N/A	N/A	U404, U407, U408, U409, U410, U503, U504,	
			N/A	N/A	U507, U508, U509, U510, U603, U604, U607,	
			N/A	N/A	U608, U609, U610	
NE5532AN	8	4	N/A	N/A	U701, U702	C125, C147
CD4052	SHOWN ON SCH		N/A	N/A	U401, U402, U501, U502, U601, U602	C140-C146
TEA6300	SHOWN ON SCH		N/A	N/A	U405, U408, U505, U508, U605, U608	SHOWN ON SCH
BDC552	N/A	N/A	N/A	N/A	U801	SHOWN ON SCH
74HC573	N/A	N/A	20	10	U802	C128
MAX707CPA	N/A	N/A	2	3	U800	C127
27C512	N/A	N/A	28	14	U803	C126
DS1244YM-200	N/A	N/A	28	14	U804	C129
74HC138	N/A	N/A	16	8	U901	C130
74HC245	N/A	N/A	20	10	U902	C131
74HC08	N/A	N/A	14	7	U903, U1201, U1202	C132-C134
74HC14	N/A	N/A	14	7	U904	C135
74LS574	N/A	N/A	20	10	U1001, U1002	C136, C137
CD4051	N/A	N/A	16	8	U1003	C138
74LS04	N/A	N/A	+5VB 14	GND 7	U1203	C139
75176	N/A	N/A	8	5	U1106	

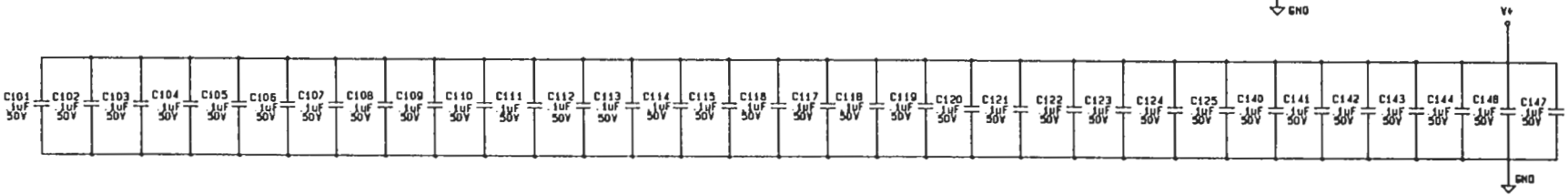
NOTES:

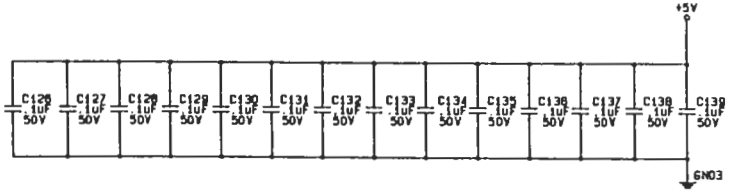
1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/8W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.











SIGNATURE		DATE
DRAWN	MILLE	7/06/84
DRFTG CHK		8/19/84
DESIGN CHK	FSW	8/19/84

PX600D80.SCH

AUDIOACCESS
26040 EDEN LANDING ROAD
HAYWARD, CA. 94545

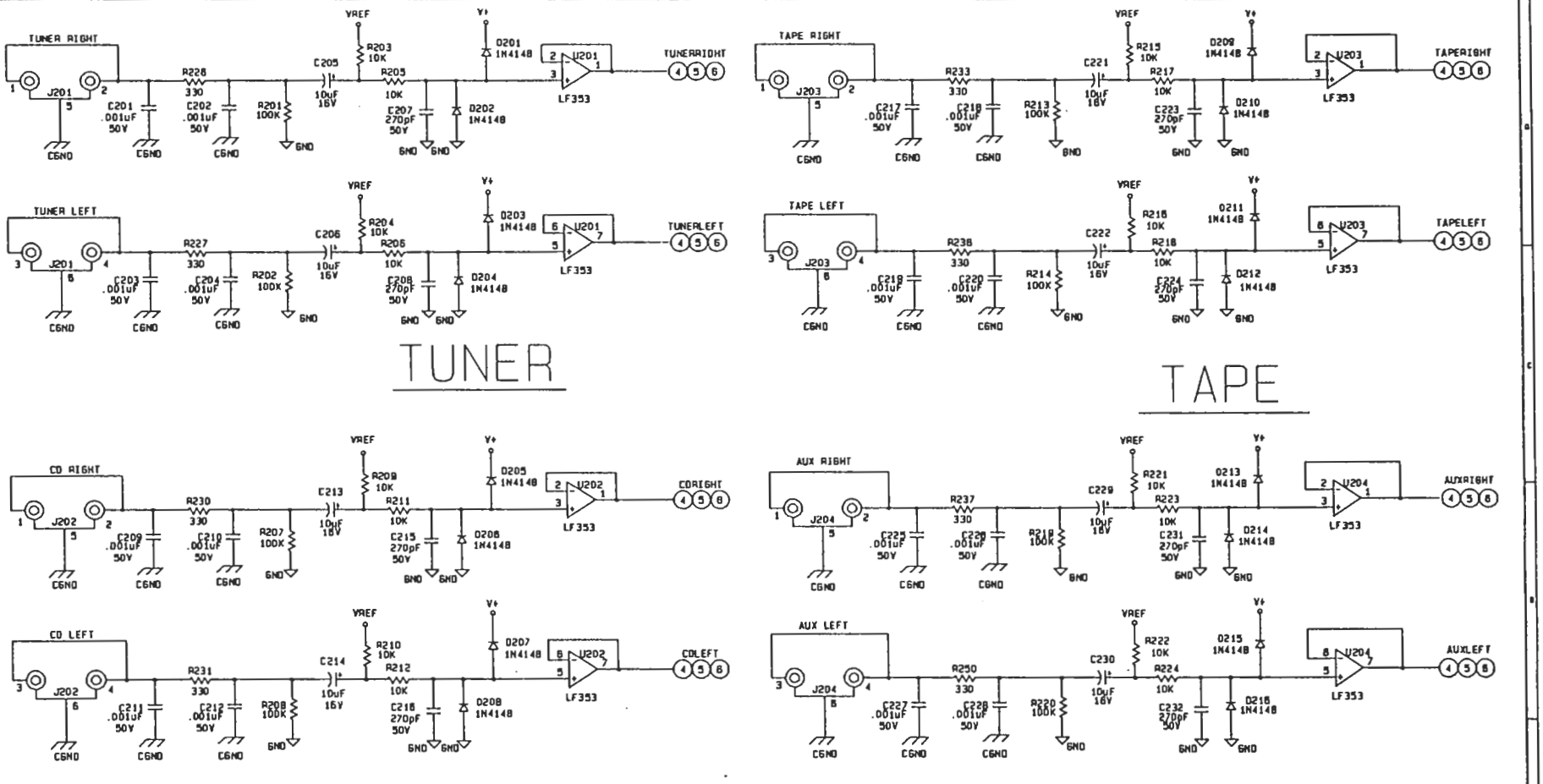
PX600 BOARD 1

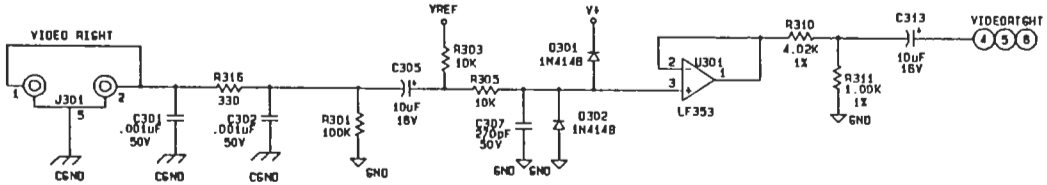
DWG. NO.

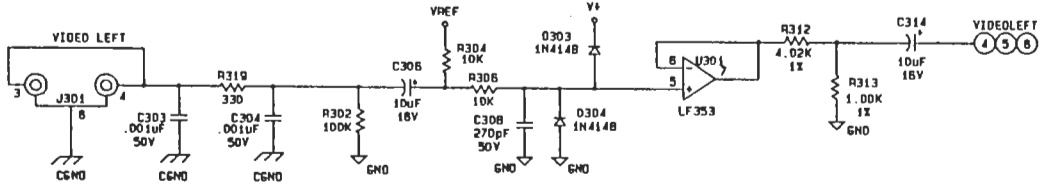
REV. B0

SHEET 1 OF 18

PX600 MAIN BOARD 8-19-84


TUNER RIGHT
J201
R228
330
C201 .001uF 50V
C202 .001uF 50V
R201 100K
C205 10uF 16V
R203 10K
R205 10K
C207 270pF 50V
D201 1N4148
D202 1N4148
U201
LF353
TUNERRIGHT
VREF
V+
GND
C6ND
TUNER LEFT
J201
R227
330
C203 .001uF 50V
C204 .001uF 50V
R202 100K
C206 10uF 16V
R204 10K
R206 10K
C208 270pF 50V
D203 1N4148
D204 1N4148
U201
LF353
TUNERLEFT
TUNER
TAPE RIGHT
J203
R233
330
C217 .001uF 50V
C218 .001uF 50V
R213 100K
C221 10uF 16V
R215 10K
R217 10K
C223 270pF 50V
D209 1N4148
D210 1N4148
U203
LF353
TAPERIGHT
TAPE LEFT
J203
R238
330
C219 .001uF 50V
C220 .001uF 50V
R214 100K
C222 10uF 16V
R216 10K
R218 10K
C224 270pF 50V
D211 1N4148
D212 1N4148
U203
LF353
TAPELEFT
TAPE
CD RIGHT
J202
R230
330
C209 .001uF 50V
C210 .001uF 50V
R207 100K
C213 10uF 16V
R209 10K
R211 10K
C215 270pF 50V
D205 1N4148
D206 1N4148
U202
LF353
CDRIGHT
CD LEFT
J202
R231
330
C211 .001uF 50V
C212 .001uF 50V
R208 100K
C214 10uF 16V
R210 10K
R212 10K
C216 270pF 50V
D207 1N4148
D208 1N4148
U202
LF353
CDLEFT
E1
C250 .1uF 50V
CD
AUX RIGHT
J204
R237
330
C225 .001uF 50V
C226 .001uF 50V
R219 100K
C229 10uF 16V
R221 10K
R223 10K
C231 270pF 50V
D213 1N4148
D214 1N4148
U204
LF353
AUXRIGHT
AUX LEFT
J204
R250
330
C227 .001uF 50V
C228 .001uF 50V
R220 100K
C230 10uF 16V
R222 10K
R224 10K
C232 270pF 50V
D215 1N4148
D216 1N4148
U204
LF353
AUXLEFT
E2
C251 .1uF 50V
AUX
PX600 BOARD 1
REV. 80
SHEET 2 OF 18
PX600 MAIN BOARD 8-19-94





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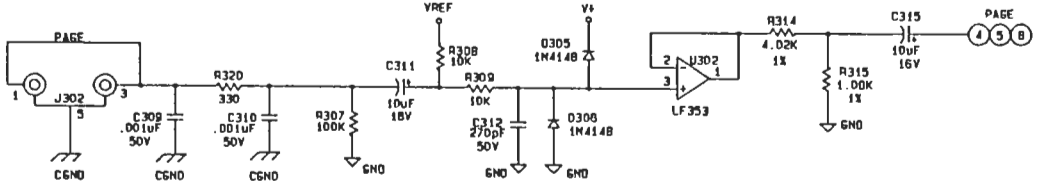

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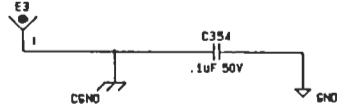
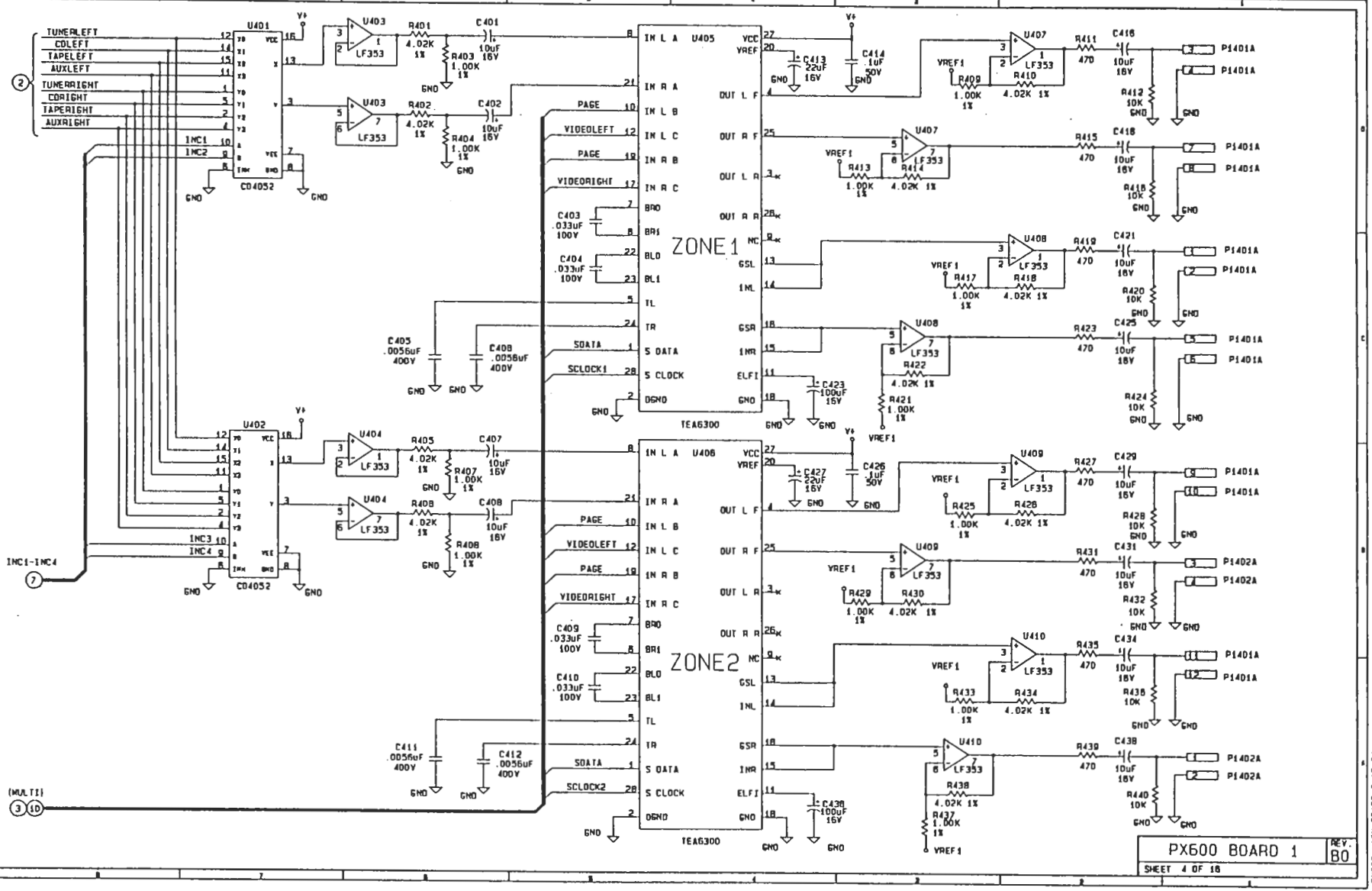
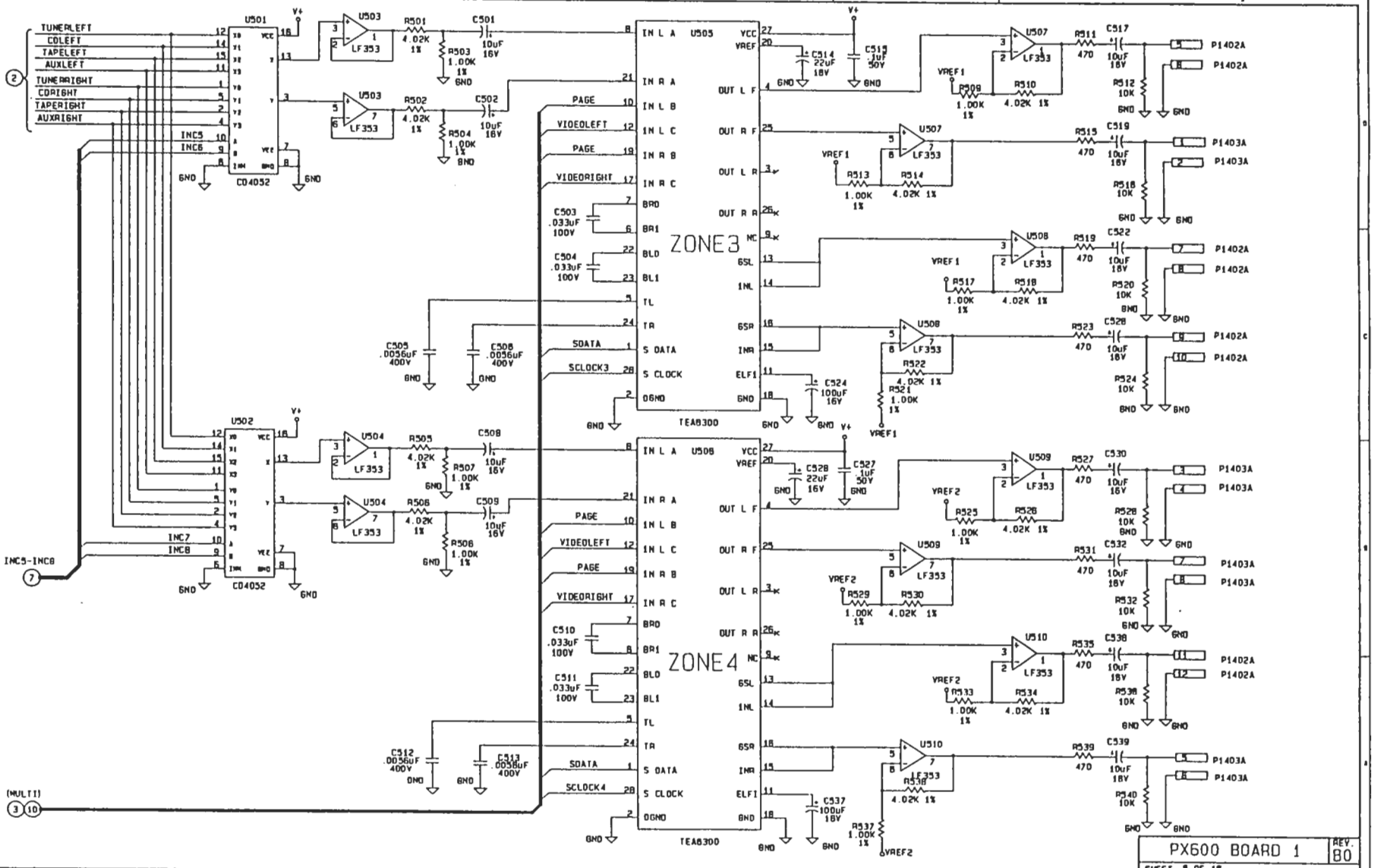


PX600 BOARD 1	REV. 80
SHEET 3 OF 18	

PX600 MAIN BOARD 8-19-94


TUNERLEFT
CDLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC1
INC2
INC3
INC4
INC1-INC4
(MULTI)
U401
U402
CD4052
U403
U404
LF353
R401
R402
R403
R404
R405
R406
R407
R408
4.02K 1%
1.00K 1%
C401
C402
10uF 16V
U405
U406
TEA6300
ZONE1
ZONE2
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK1
SCLOCK2
C403 .033uF 100V
C404 .033uF 100V
C405 .0056uF 400V
C406 .0056uF 400V
C409 .033uF 100V
C410 .033uF 100V
C411 .0056uF 400V
C412 .0056uF 400V
C413 22uF 16V
C414 .1uF 50V
C423 100uF 16V
C426 .1uF 50V
C427 22uF 16V
C438 100uF 16V
U407
U408
U409
U410
R409
R410
R411
R412
R413
R414
R415
R416
R417
R418
R419
R420
R421
R422
R423
R424
R425
R426
R427
R428
R429
R430
R431
R432
R433
R434
R435
R436
R437
R438
R439
R440
470
10K
C416
C418
C421
C425
C429
C431
C434
C438
P1401A
P1402A
GND
VREF1
PX600 BOARD 1
REV. B0
SHEET 4 OF 16
PX600 MAIN BOARD 6-19-94


TUNERLEFT
COLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CORIGHT
TAPERIGHT
AUXRIGHT
INC5
INC6
INC7
INC8
INC5-INC8
(MULTI)
U501
U502
CD4052
U503
U504
LF353
R501
R502
R503
R504
R505
R506
R507
R508
4.02K 1%
1.00K 1%
C501
C502
C508
C509
10uF 16V
GND
V+
U505
U506
TEA6300
IN L A
IN R A
IN L B
IN L C
IN R B
IN R C
BR0
BR1
BLO
BLI
TL
TR
SDATA
SCLOCK3
SCLOCK4
OGND
VCC
VREF
OUT L F
OUT R F
OUT L R
OUT R R
NC
GSL
INL
GSR
INR
ELFI
GND
PAGE
VIDEOLEFT
VIDEORIGHT
C503 .033uF 100V
C504 .033uF 100V
C505 .0056uF 400V
C506 .0056uF 400V
C510 .033uF 100V
C511 .033uF 100V
C512 .0056uF 400V
C513 .0056uF 400V
C514 22uF 16V
C515 1uF 50V
C524 100uF 16V
C527 1uF 50V
C528 22uF 16V
C537 100uF 16V
ZONE3
ZONE4
U507
U508
U509
U510
R509
R510
R511
R512
R513
R514
R515
R516
R517
R518
R519
R520
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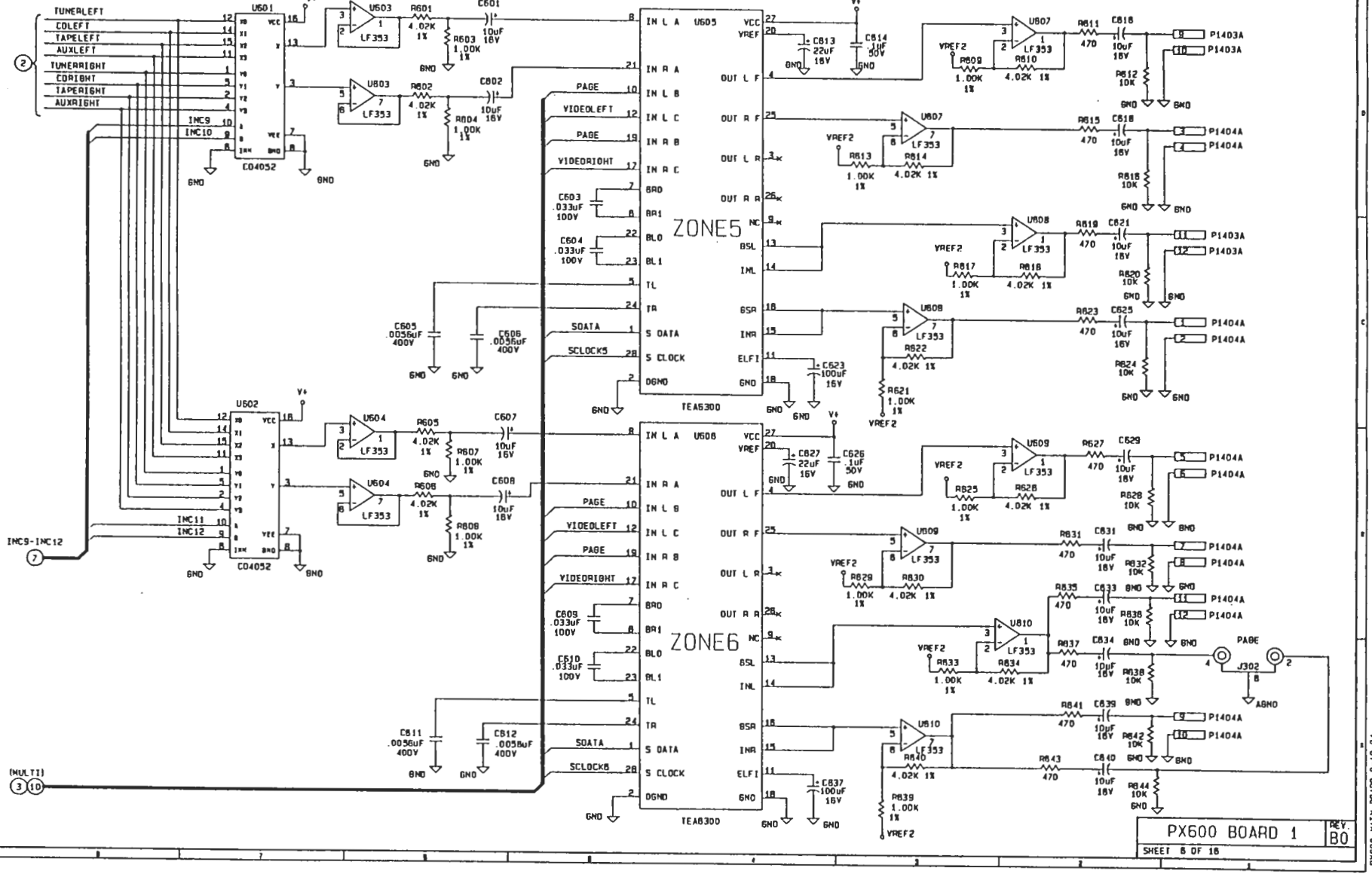
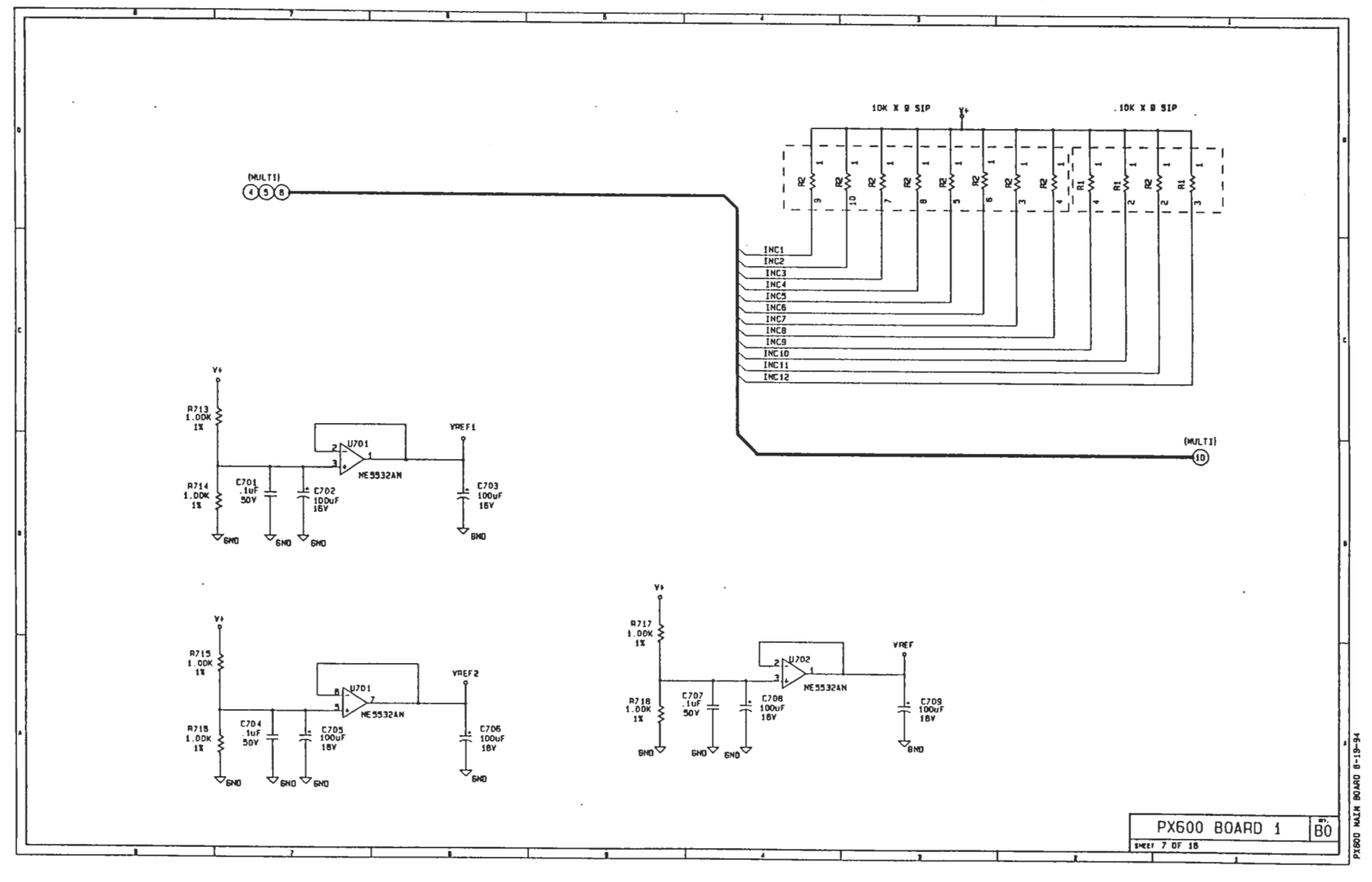
R522
R523
R524
R525
R526
R527
R528
R529
R530
R531
R532
R533
R534
R535
R536
R537
R538
R539
R540
VREF1
VREF2
470
1.00K 1%
4.02K 1%
10K
C517
C519
C522
C526
C530
C532
C538
C539
10uF 16V
P1402A
P1403A
PX600 BOARD 1
REV. B0
SHEET 5 OF 16
PX600 MAIN BOARD 8-19-94

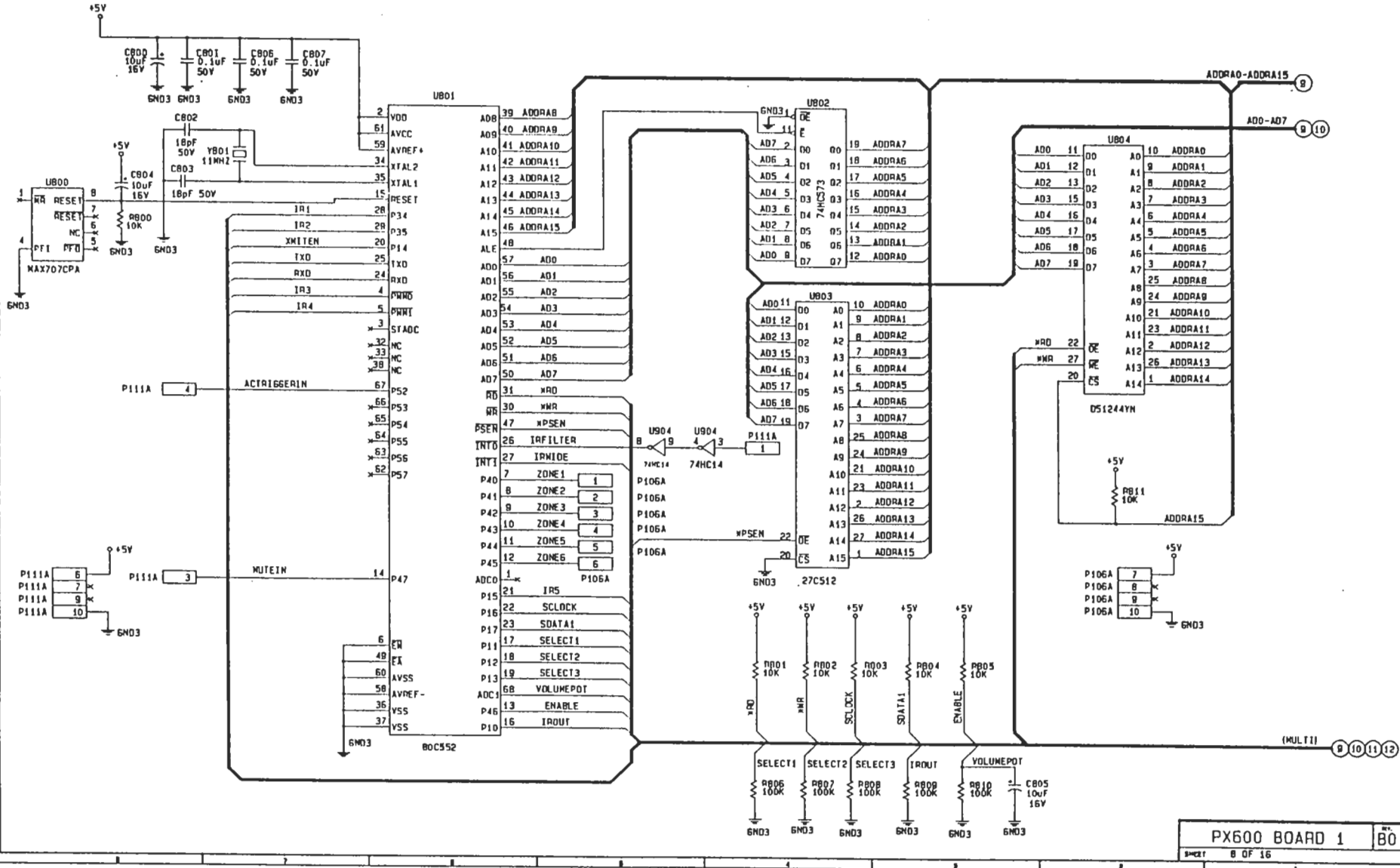

TUNERLEFT
COLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CORIGHT
TAPERIGHT
AUXRIGHT
INC9
INC10
INC11
INC12
INC9-INC12
(MULTI)
U601
U602
CD4052
U603
U604
LF353
R601
R602
R603
R604
R605
R606
R607
R608
C601
C602
C607
C608
GND
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK5
SCLOCK6
U605
U606
TEA6300
ZONE5
ZONE6
IN L A
IN R A
IN L B
IN L C
IN R B
IN R C
BRO
BR1
BL0
BL1
TL
TR
S DATA
S CLOCK
DGND
VCC
VREF
OUT L F
OUT R F
OUT L R
OUT R R
NC
BSL
INL
BSR
INR
ELFI
C603
C604
C605
C606
C609
C610
C611
C612
.033uF 100V
.0056uF 400V
C613
22uF 16V
C614
.1uF 50V
C623
100uF 16V
C627
C626
C637
U607
U608
U609
U610
R609
R610
R611
R612
R613
R614
R615
R616
R617
R618
R619
R620
R621
R622
R623
R624
R625
R626
R627
R628
R629
R630
R631
R632
R633
R634
R635
R636
R637
R638
R639
R640
R641
R642
R643
R644
470
1.00K 1%
4.02K 1%
10K
10uF 16V
VREF2
P1403A
P1404A
J302
AGND
PX600 BOARD 1
REV. B0
SHEET 8 OF 16
PX600 MAIN BOARD 9-19-94

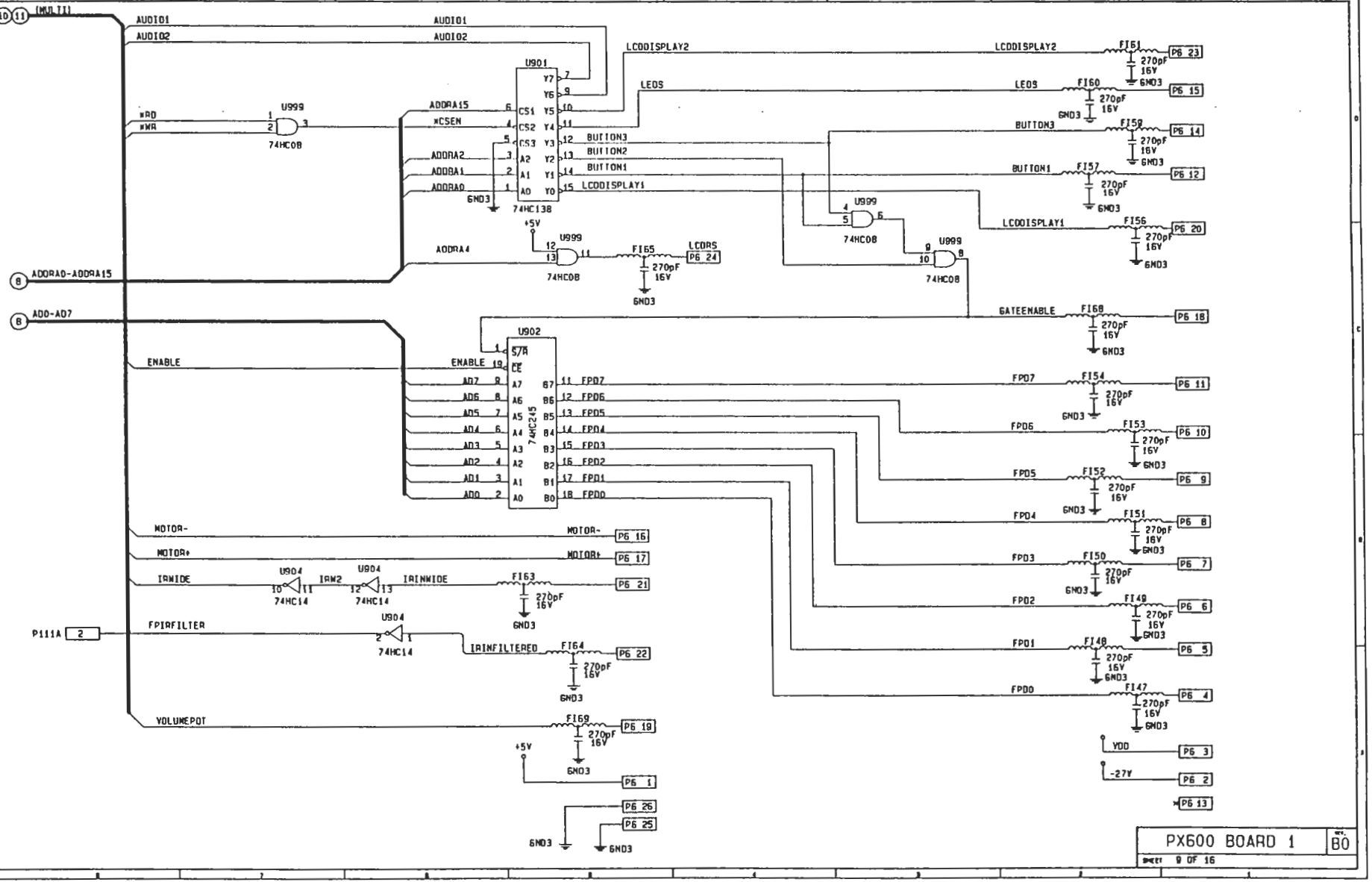


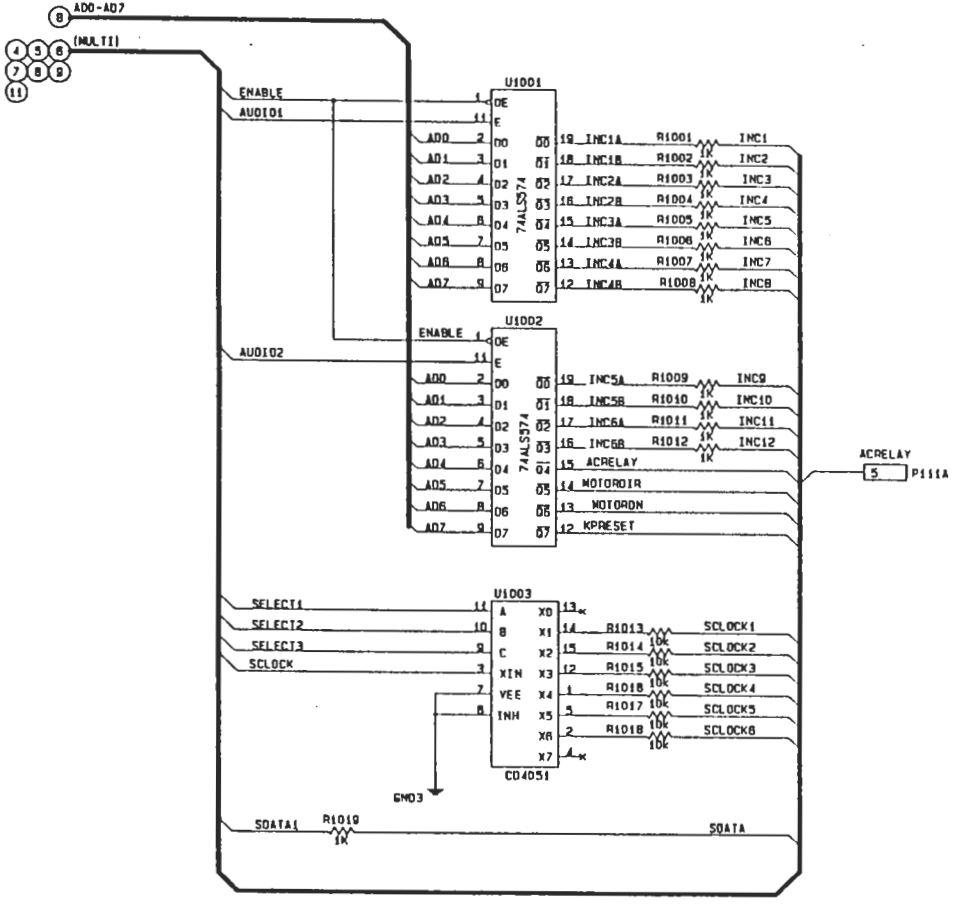
PX600 BOARD 1 | B0

SHEET 7 OF 16

PX600 MAIN BOARD 8-19-94


+5V
C800 10uF 16V
C801 0.1uF 50V
C805 0.1uF 50V
C807 0.1uF 50V
GND3
C802 18pF 50V
C803 18pF 50V
YB01 11MHZ
C804 10uF 16V
R800 10K
U800
MAX707CPA
U801
80C552
VDD
AVCC
AVREF+
XTAL2
XTAL1
RESET
P34
P35
P14
TXD
RXD
PWM0
PWM1
STADC
NC
P111A
ACTRIGGERIN
MUTEIN
P52
P53
P54
P55
P56
P57
P47
AD8
AD9
AD10
AD11
AD12
AD13
AD14
AD15
ALE
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
RD
WR
PSEN
INT0
INT1
P40
P41
P42
P43
P44
P45
ADC0
P15
P16
P17
P11
P12
P13
ADC1
P46
P10
ADDRA8
ADDRA9
ADDRA10
ADDRA11
ADDRA12
ADDRA13
ADDRA14
ADDRA15
IR1
IR2
XMITEN
TXD
RXD
IR3
IR4
IRFILTER
IRWIDE
ZONE1
ZONE2
ZONE3
ZONE4
ZONE5
ZONE6
IR5
SCLOCK
SDATA1
SELECT1
SELECT2
SELECT3
VOLUMEPOT
ENABLE
IROUT
U802
74HC373
U803
27C512
U804
D51244YN
U904
74HC14
P106A
R801 10K
R802 10K
R803 10K
R804 10K
R805 10K
R806 100K
R807 100K
R808 100K
R809 100K
R810 100K
C805 10uF 16V
R811 10K
ADDRA0-ADDRA15
AD0-AD7
(MULTI)
PX600 BOARD 1
REV. B0
SHEET 8 OF 16
PX600 MAIN BOARD 8-19-94


(MULTI)
AUDIO1
AUDIO2
U901
74HC138
U999
74HC08
U902
74HC245
ADDRA15
ADDRA2
ADDRA1
ADDRA0
ADDRA4
ADDRA0-ADDRA15
AD0-AD7
ENABLE
LCDDISPLAY2
LEDS
BUTTON3
BUTTON2
BUTTON1
LCDDISPLAY1
LCDRS
GATEENABLE
FPD7
FPD6
FPD5
FPD4
FPD3
FPD2
FPD1
FPD0
MOTOR-
MOTOR+
IRINSIDE
IRINSIDE2
IRINSIDE1
FPIRFILTER
IRINFILTERED
VOLUMEPOT
YDD
-27V
270pF
16V
GND3
+5V
P6 1
P6 2
P6 3
P6 4
P6 5
P6 6
P6 7
P6 8
P6 9
P6 10
P6 11
P6 12
P6 13
P6 14
P6 15
P6 16
P6 17
P6 18
P6 19
P6 20
P6 21
P6 22
P6 23
P6 24
P6 25
P6 26
P111A
PX600 BOARD 1
80
SHEET 9 OF 16
PX600 MAIN BOARD 8-19-94

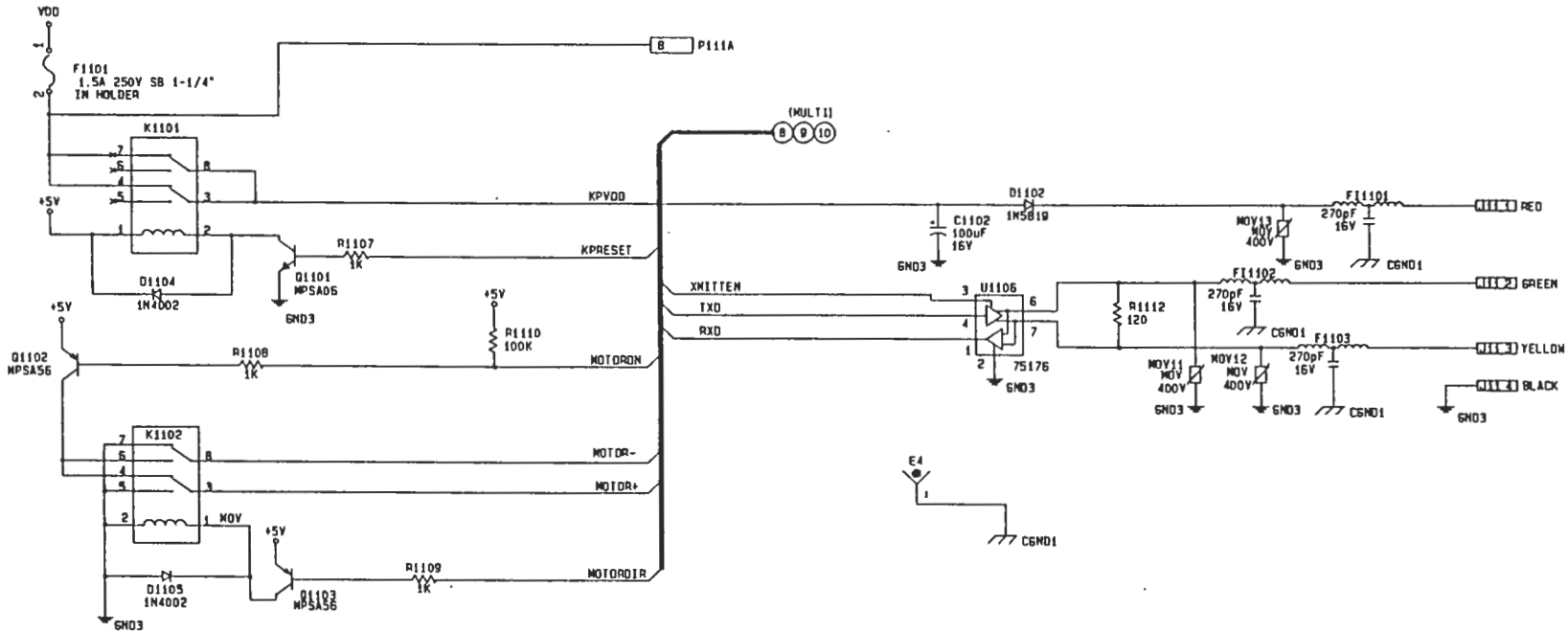


PX600 BOARD 1

REV. B0

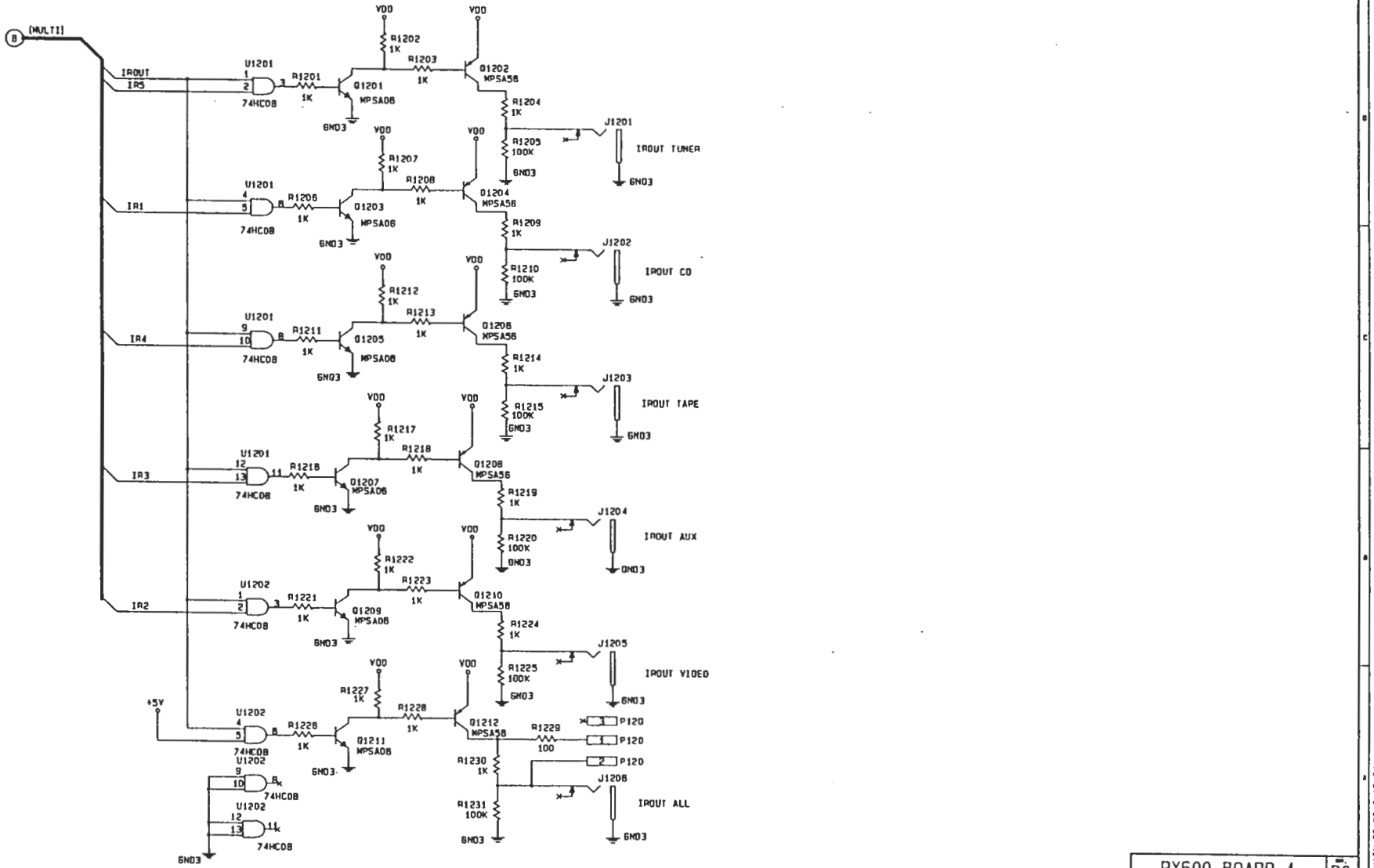
SHEET 10 OF 16

PX600 MAIN BOARD 8-19-94



PX600 BOARD 1	REV. B0
SHEET 11 OF 16	

PX600 MAIN BOARD 8-19-94

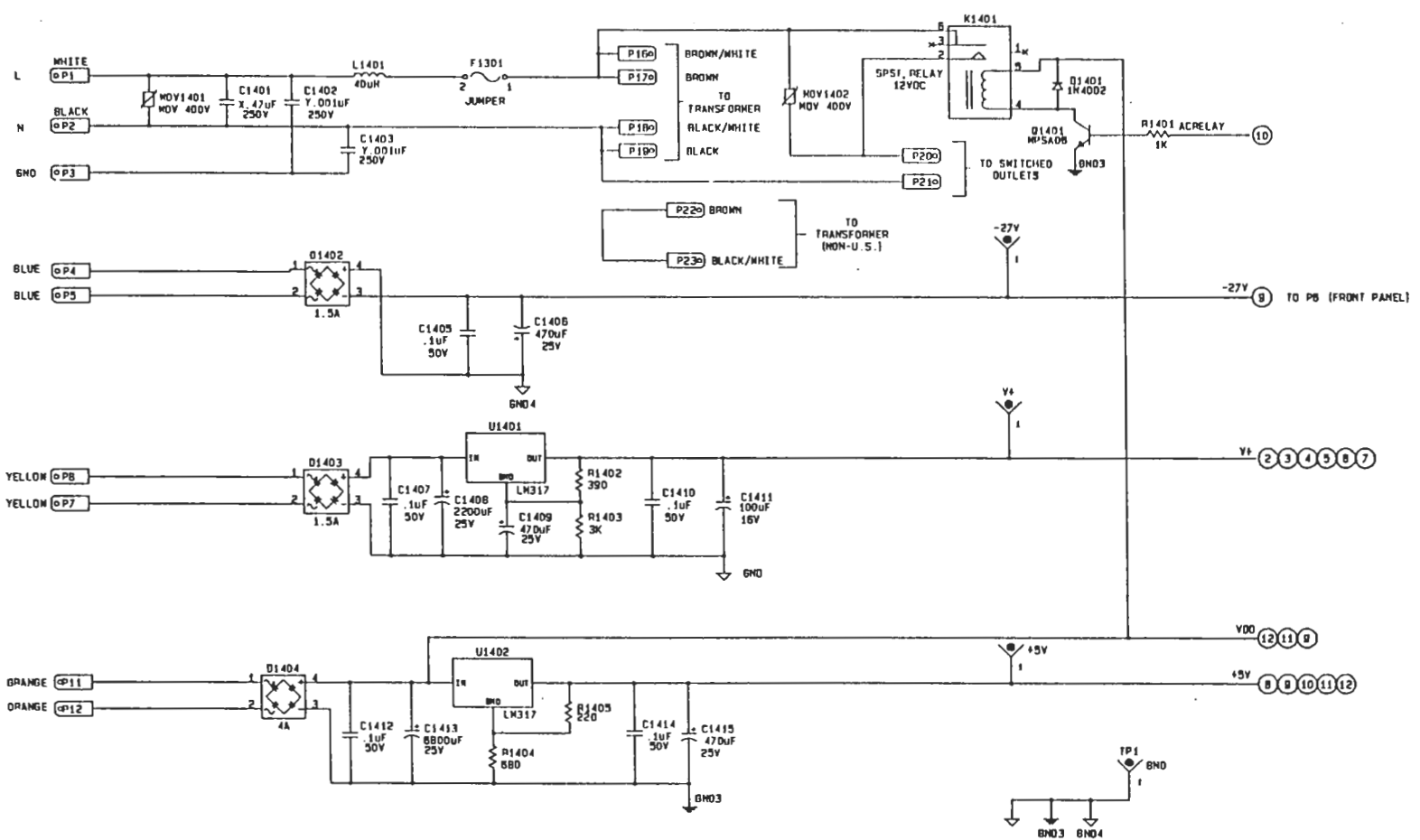


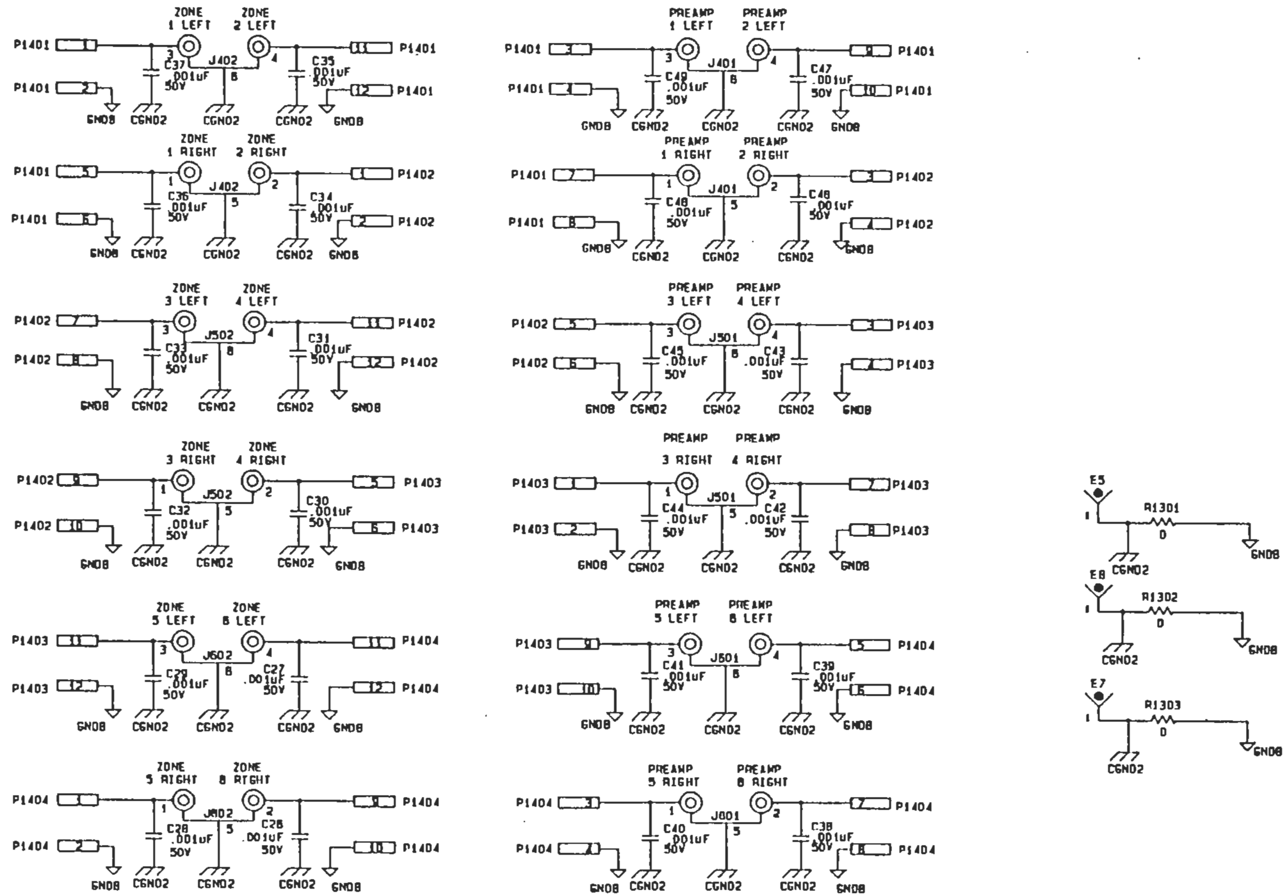
PX600 BOARD 1

REV. B0

SHEET 12 OF 16

PX600 MAIN BOARD 8-19-94


L
WHITE
P1
N
BLACK
P2
GND
P3
MOV1401
MOV 400V
C1401
.47uF
250V
C1402
.001uF
250V
C1403
.001uF
250V
L1401
40uH
F1301
JUMPER
P160
P170
P180
P190
BROWN/WHITE
BROWN
BLACK/WHITE
BLACK
TO TRANSFORMER
MOV1402
MOV 400V
K1401
SPST, RELAY
12VDC
D1401
1N4002
Q1401
MPSA06
R1401 ACRELAY
1K
10
GND3
P200
P210
TO SWITCHED OUTLETS
P220
P230
BROWN
BLACK/WHITE
TO TRANSFORMER (NON-U.S.)
-27V
BLUE
P4
BLUE
P5
D1402
1.5A
C1405
.1uF
50V
C1406
470uF
25V
GND4
-27V
9
TO P8 (FRONT PANEL)
V+
U1401
IN
OUT
GND
LM317
YELLOW
P8
YELLOW
P7
D1403
1.5A
C1407
.1uF
50V
C1408
2200uF
25V
C1409
470uF
25V
R1402
390
R1403
3K
C1410
.1uF
50V
C1411
100uF
16V
GND
V+
2 3 4 5 6 7
VDD
12 11 9
+5V
U1402
IN
OUT
GND
LM317
ORANGE
P11
ORANGE
P12
D1404
4A
C1412
.1uF
50V
C1413
6800uF
25V
R1404
680
R1405
220
C1414
.1uF
50V
C1415
470uF
25V
GND3
+5V
8 9 10 11 12
TP1
GND
GND3
GND4
PX600 BOARD 1
B0
SHEET 13 OF 18
PX600 MAIN BOARD 8-19-94

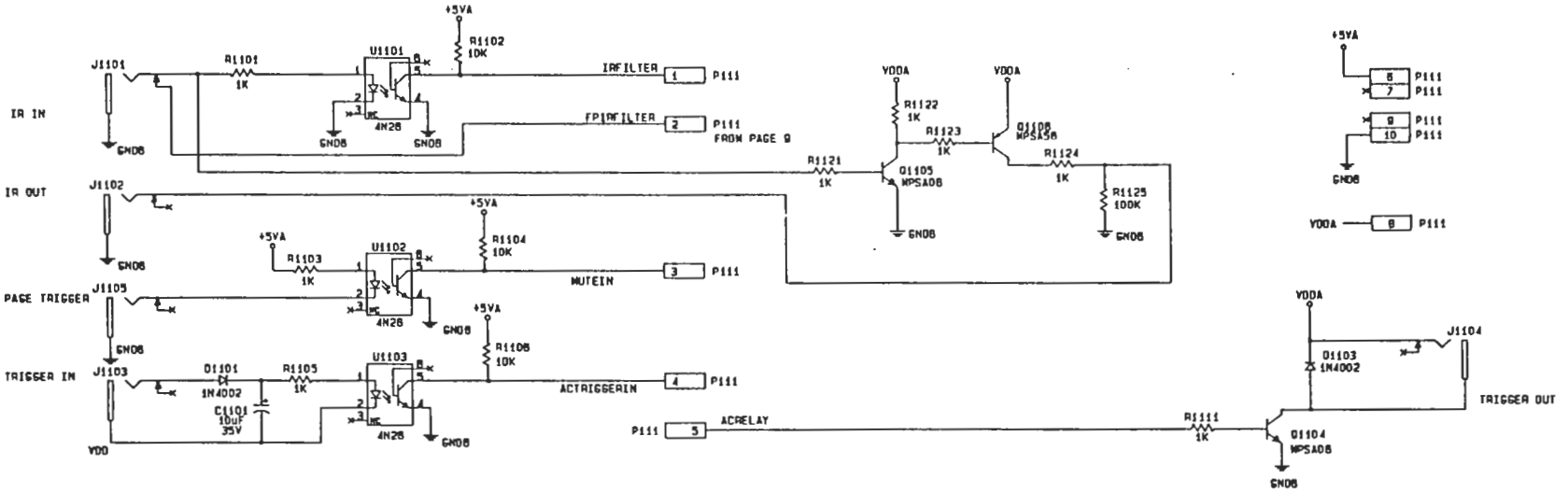


PX600 BOARD 2

B0

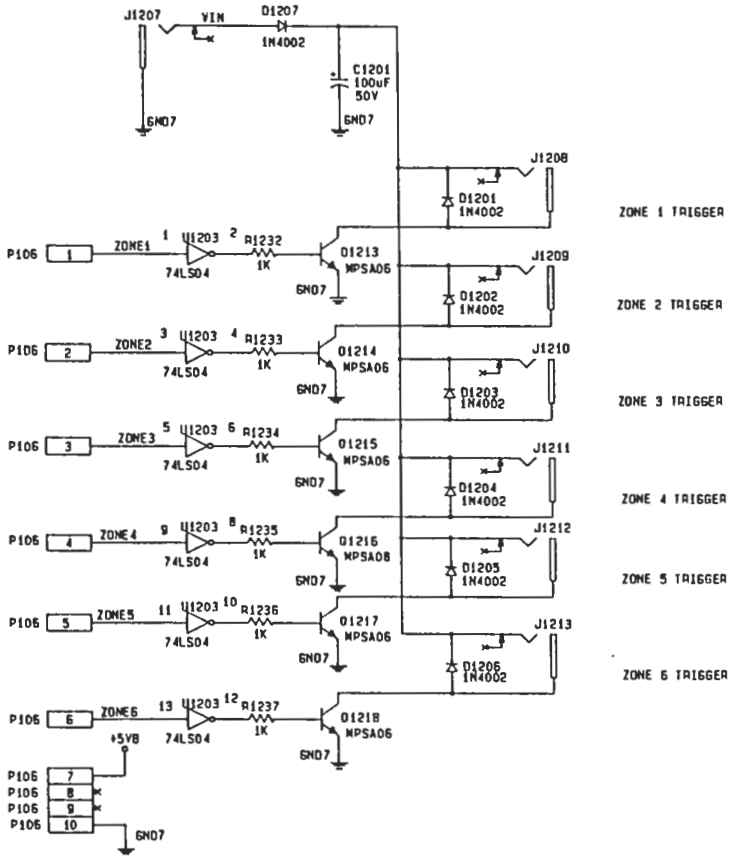
SHEET 14 of 18

PX600 MAIN BOARD 8-19-94



PX600 BOARD 2	REV. 80
SHEET 15 OF 18	

PX600 MAIN BOARD 8-19-94



PX600 BOARD 3

B0

SHEET 15 OF 15

PX600 MAIN BOARD 8-19-94

PX-600

MAIN BOARD

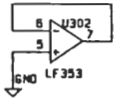
REV B1

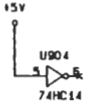
IC CHART

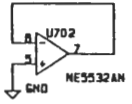
TYPE	VOLTAGE/PIN NO. V+	AGND	+5V	DGND	REFERENCE DESIGNATOR CHART	BYPASS CAP
LF353	8	4	N/A	N/A	U201, U202, U203, U204, U301, U302, U403,	C101-C124
			N/A	N/A	U404, U407, U408, U409 U410, U503, U504,	
			N/A	N/A	U507, U508, U509, U510, U603, U604, U607,	
			N/A	N/A	U608, U609, U810	
NE5532AN	8	4	N/A	N/A	U701, U702	C125, C147
CD4052	SHOWN ON SCH		N/A	N/A	U401, U402, U501, U502, U801, U602	C140-C146
TEA8300	SHOWN ON SCH		N/A	N/A	U405, U408, U505, U508, U605, U608	SHOWN ON SCH
80C552	N/A	N/A	N/A	N/A	U801	SHOWN ON SCH
74HC573	N/A	N/A	20	10	U802	C126
MAX707CPA	N/A	N/A	2	3	U800	C127
27C512	N/A	N/A	28	14	U803	C128
DS1244YM-200	N/A	N/A	28	14	U804	C129
74HC138	N/A	N/A	16	8	U901	C130
74HC245	N/A	N/A	20	10	U902	C131
74HC08	N/A	N/A	14	7	U903, U1201, U1202	C132-C134
74HC14	N/A	N/A	14	7	U904	C135
74LS574	N/A	N/A	20	10	U1001, U1002	C136, C137
CD4051	N/A	N/A	16	8	U1003	C138
74LS04	N/A	N/A	+5VB 14	GND7 7	U1203	C139
75178	N/A	N/A	8	5	U1108	

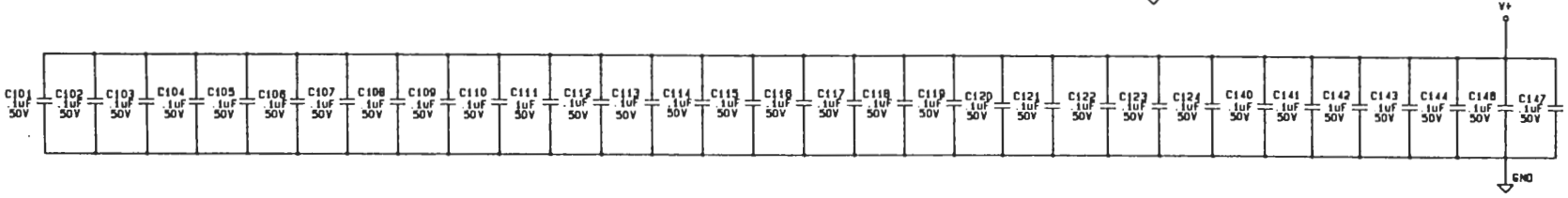
NOTES:

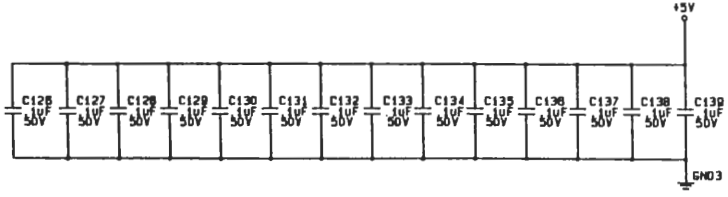
1. FOR CAPACITOR TYPE SEE PARTS LIST
2. ALL RESISTORS ARE 1/8W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.











SIGNATURE		DATE
DRAWN	MILLE	7/08/94
DRFTG CHK		8/19/94
DESIGN CHK		8/19/94

PX60081.SCH

AUDIOACCESS
26048 EDEN LANDING ROAD
HAYWARD, CA. 94545

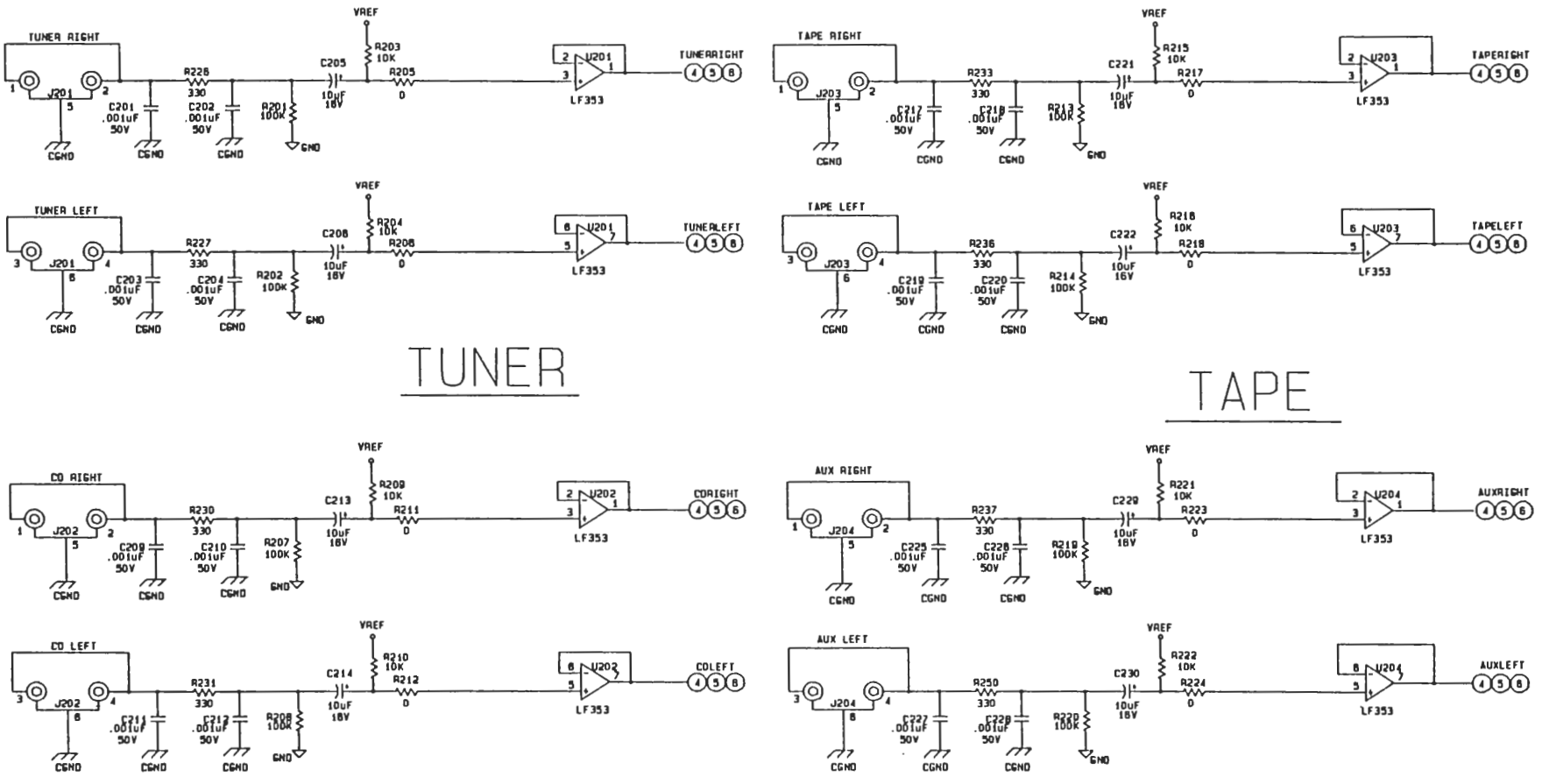
PX600 BOARD 1

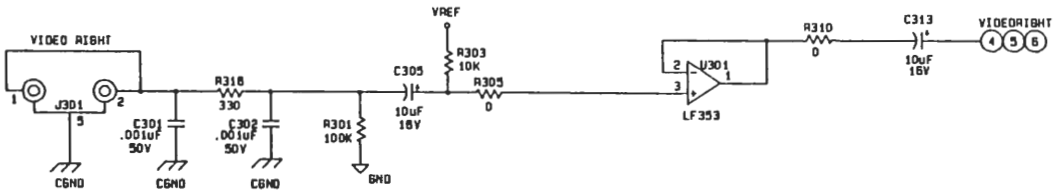
DWG. NO.

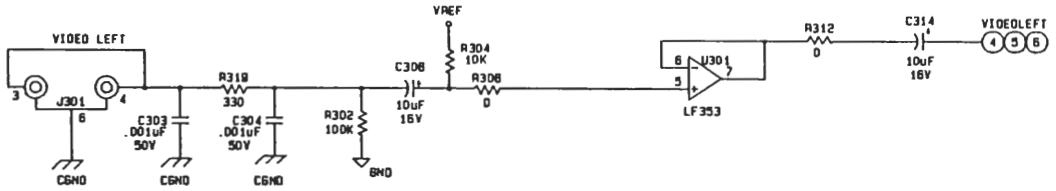
REV. B1

SHEET 1 OF 18

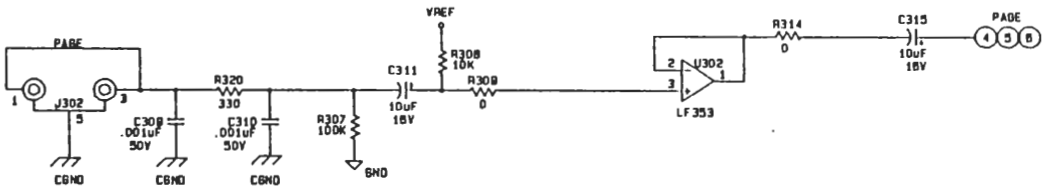
PX600 MAIN BOARD 8-19-94


TUNER RIGHT
J201
C201 .001uF 50V
C202 .001uF 50V
R226 330
R201 100K
C205 10uF 16V
R203 10K
R205 0
VREF
U201
LF353
TUNERRIGHT
TUNER LEFT
J201
C203 .001uF 50V
C204 .001uF 50V
R227 330
R202 100K
C206 10uF 16V
R204 10K
R206 0
U201
LF353
TUNERLEFT
CGND
GND
TUNER
TAPE RIGHT
J203
C217 .001uF 50V
C218 .001uF 50V
R233 330
R213 100K
C221 10uF 16V
R215 10K
R217 0
U203
LF353
TAPERIGHT
TAPE LEFT
J203
C219 .001uF 50V
C220 .001uF 50V
R236 330
R214 100K
C222 10uF 16V
R216 10K
R218 0
U203
LF353
TAPELEFT
TAPE
CD RIGHT
J202
C209 .001uF 50V
C210 .001uF 50V
R230 330
R207 100K
C213 10uF 16V
R209 10K
R211 0
U202
LF353
CDRIGHT
CD LEFT
J202
C211 .001uF 50V
C212 .001uF 50V
R231 330
R208 100K
C214 10uF 16V
R210 10K
R212 0
U202
LF353
CDLEFT
E1
CD
AUX RIGHT
J204
C225 .001uF 50V
C226 .001uF 50V
R237 330
R219 100K
C229 10uF 16V
R221 10K
R223 0
U204
LF353
AUXRIGHT
AUX LEFT
J204
C227 .001uF 50V
C228 .001uF 50V
R250 330
R220 100K
C230 10uF 16V
R222 10K
R224 0
U204
LF353
AUXLEFT
E2
AUX
PX600 BOARD 1
B1
SHEET 2 OF 16
PX600 MAIN BOARD 8-19-94





VIDEO



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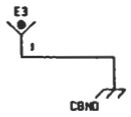
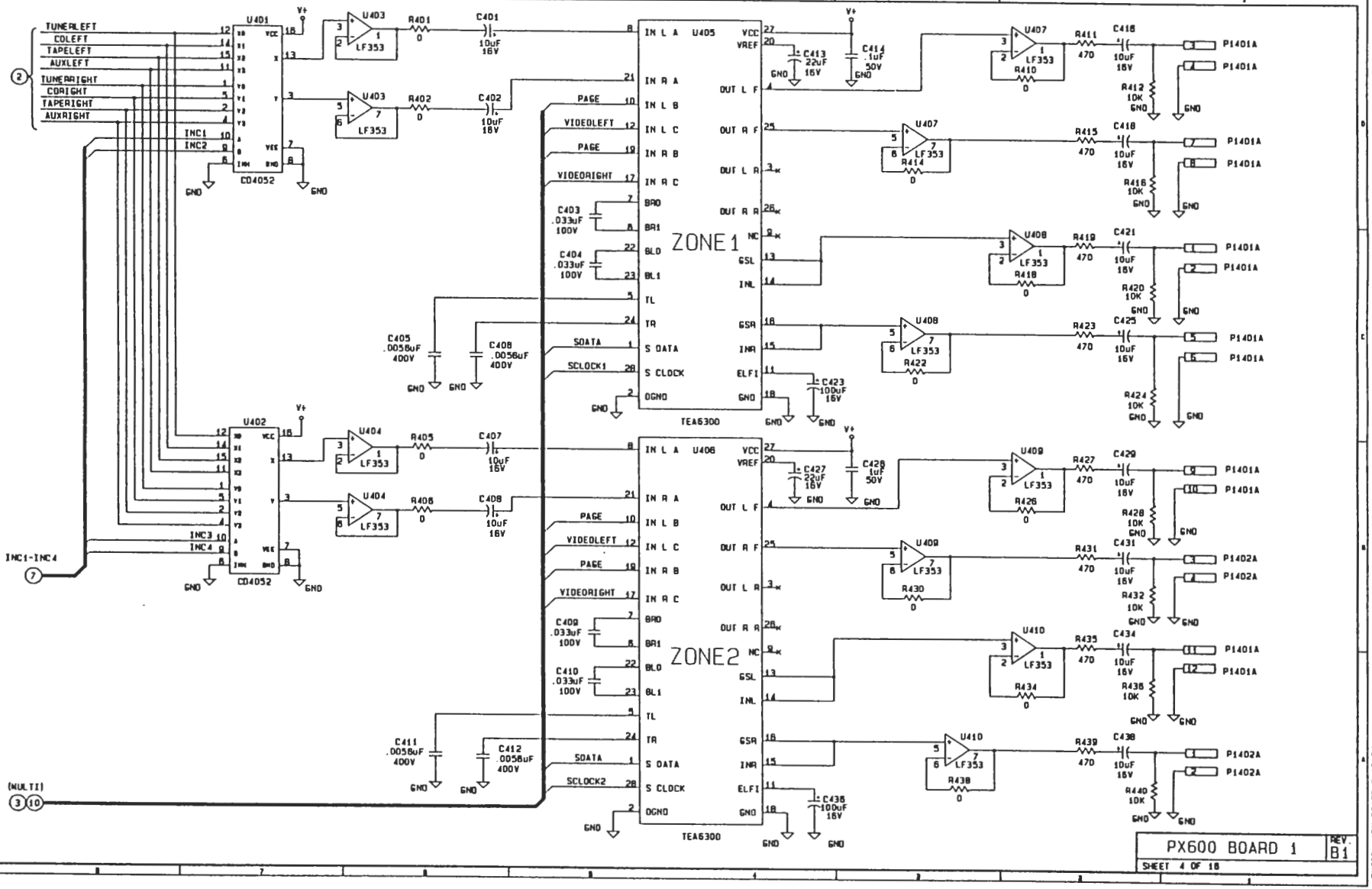
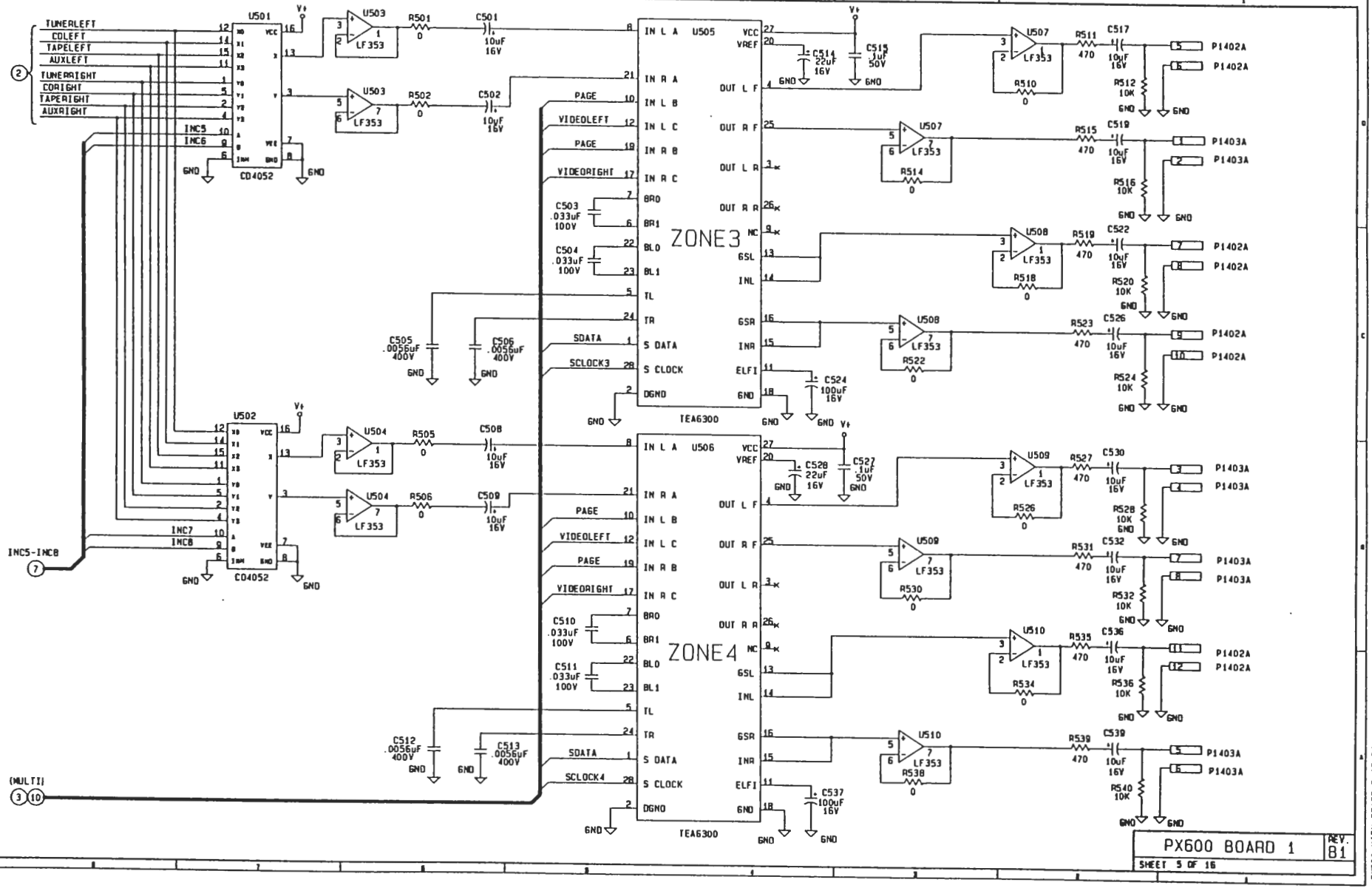


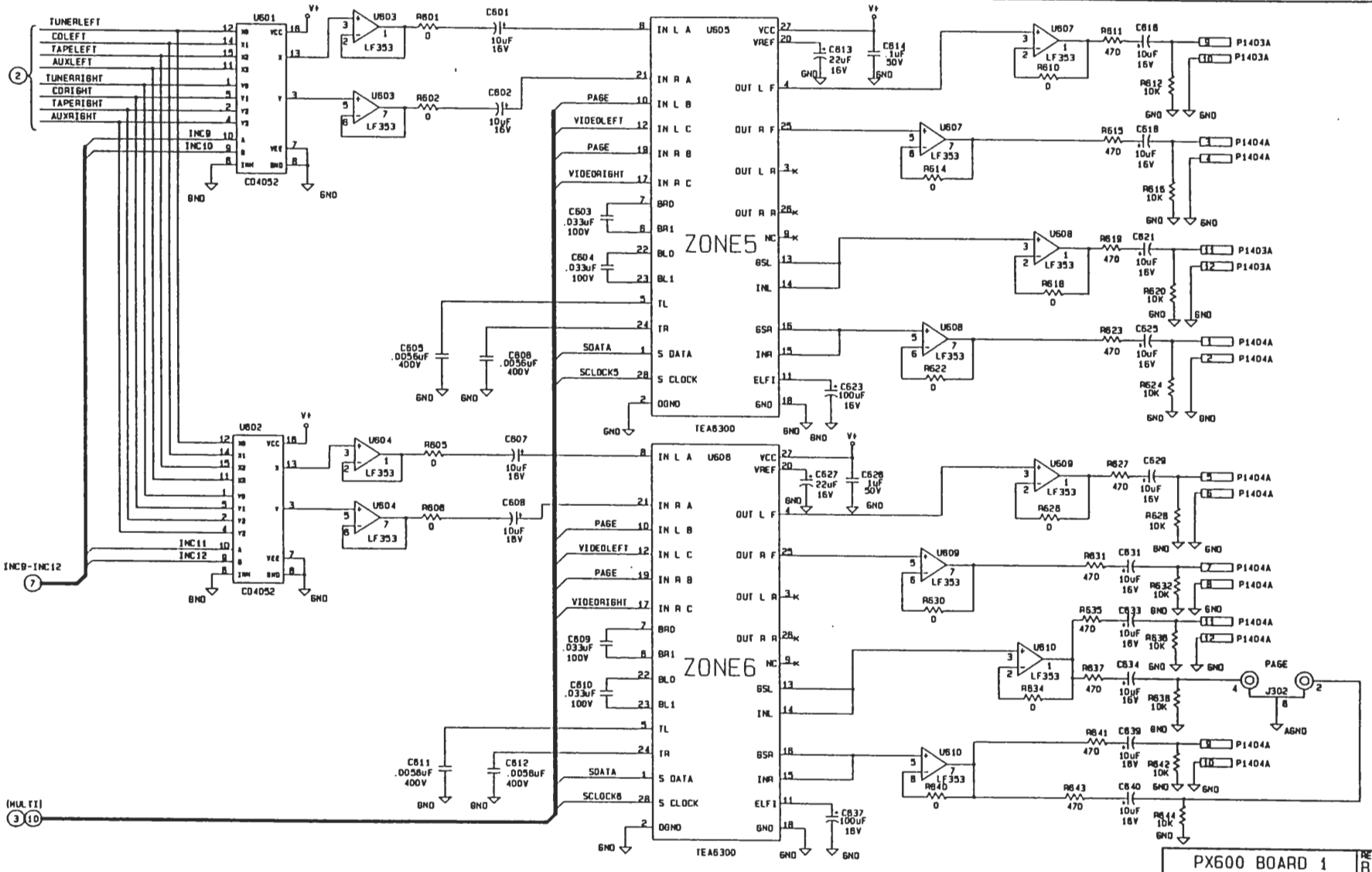
PX600 BOARD 1 | B1

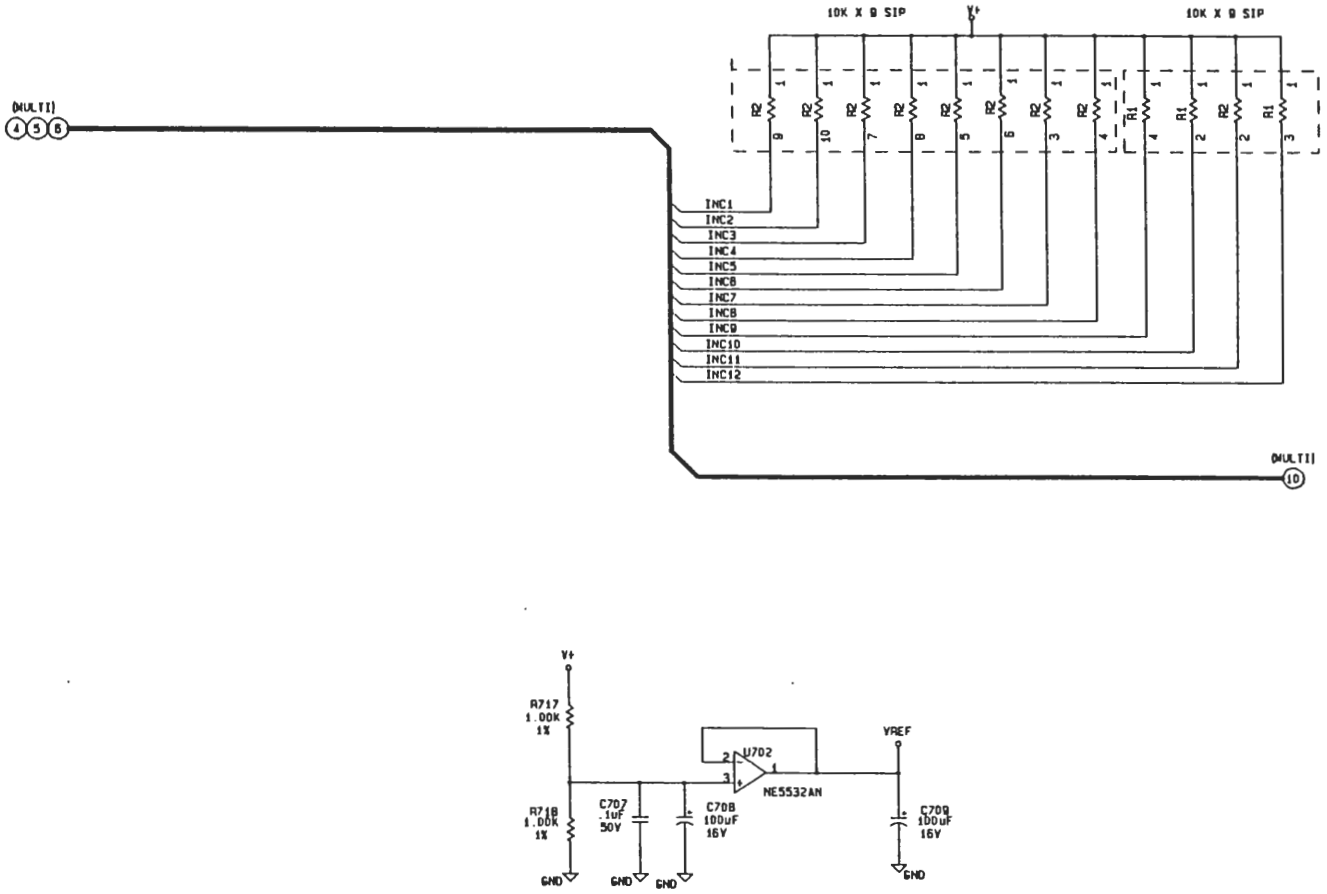
SHEET 3 OF 18

PX600 MAIN BOARD 8-19-94


TUNERLEFT
COLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC1
INC2
INC3
INC4
INC1-INC4
(MULTI)
U401
U402
CD4052
U403
U404
LF353
R401
R402
R405
R406
C401
C402
C407
C408
U405
U406
TEA6300
ZONE1
ZONE2
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK1
SCLOCK2
C403 .033uF 100V
C404 .033uF 100V
C405 .0056uF 400V
C408 .0056uF 400V
C409 .033uF 100V
C410 .033uF 100V
C411 .0056uF 400V
C412 .0056uF 400V
C413 22uF 16V
C414 1uF 50V
C423 100uF 16V
C427 22uF 16V
C428 1uF 50V
C436 100uF 16V
U407
U408
U409
U410
R410
R411
R412
R414
R415
R416
R418
R419
R420
R422
R423
R424
R426
R427
R428
R430
R431
R432
R434
R435
R436
R438
R439
R440
470
10K
10uF 16V
P1401A
P1402A
GND
V+
PX600 BOARD 1
REV. B1
SHEET 4 OF 18
PX600 MAIN BOARD 8-18-94


TUNERLEFT
CDLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC5
INC6
INC7
INC8
INC5-INC8
(MULTI)
U501
U502
CD4052
U503
U504
LF353
R501
R502
R505
R506
C501
C502
C508
C509
10uF 16V
GND
V+
U505
U506
TEA6300
ZONE3
ZONE4
IN L A
IN R A
IN L B
IN L C
IN R B
IN R C
BR0
BR1
BL0
BL1
TL
TR
S DATA
S CLOCK
DGND
VCC
VREF
OUT L F
OUT R F
OUT L R
OUT R R
NC
GSL
INL
GSR
INR
ELFI
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK3
SCLOCK4
C503 .033uF 100V
C504 .033uF 100V
C505 .0056uF 400V
C506 .0056uF 400V
C510 .033uF 100V
C511 .033uF 100V
C512 .0056uF 400V
C513 .0056uF 400V
C514 22uF 16V
C515 1uF 50V
C524 100uF 16V
C527 1uF 50V
C528 22uF 16V
C537 100uF 16V
U507
U508
U509
U510
R510
R511
R512 10K
R514
R515
R516 10K
R518
R519
R520 10K
R522
R523
R524 10K
R526
R527
R528 10K
R530
R531
R532 10K
R534
R535
R536 10K
R538
R539
R540 10K
470
0
C517
C519
C522
C526
C530
C532
C536
C539
P1402A
P1403A
PX600 BOARD 1
REV. B1
SHEET 5 OF 16
PX600 MAIN BOARD 8-19-94


TUNERLEFT
COLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC9
INC10
INC11
INC12
INC9-INC12
(MULTI)
U601
U602
CD4052
U603
U604
LF353
R601
R602
R603
R604
R605
R606
R607
R608
C601
C602
C603
C604
C605
C606
C607
C608
C609
C610
C611
C612
U605
U606
TEA6300
ZONE5
ZONE6
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK5
SCLOCK6
C613
C614
C623
C627
C628
C637
U607
U608
U609
U610
R610
R611
R612
R613
R614
R615
R616
R617
R618
R619
R620
R621
R622
R623
R624
R625
R626
R627
R628
R629
R630
R631
R632
R633
R634
R635
R636
R637
R638
R639
R640
R641
R642
R643
R644
C618
C619
C620
C621
C622
C625
C629
C631
C632
C633
C634
C635
C639
C640
P1403A
P1404A
J302
AGND
GND
PX600 BOARD 1
REV. B1
SHEET 8 OF 18
PX600 MAIN BOARD 8-19-94

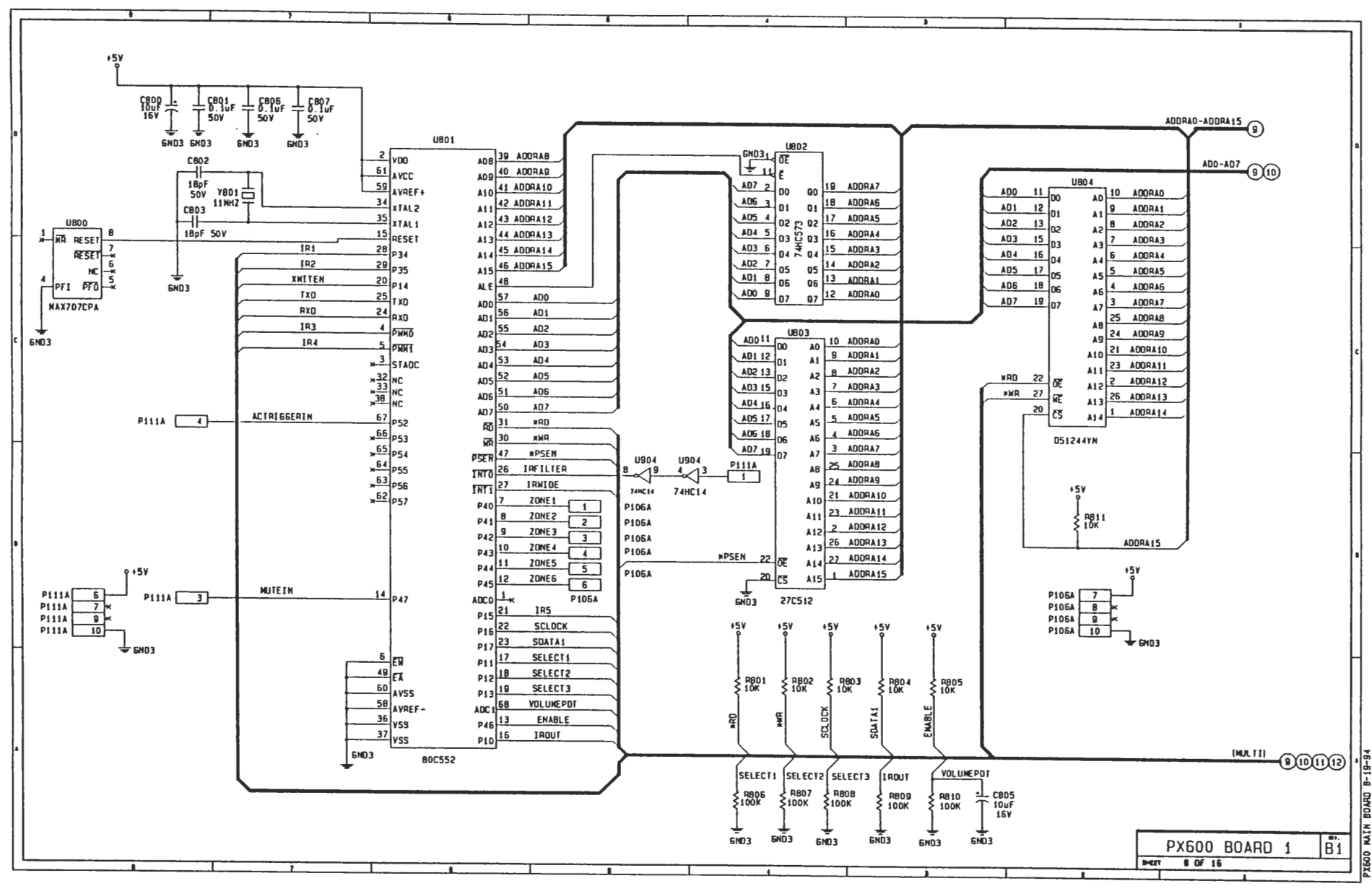


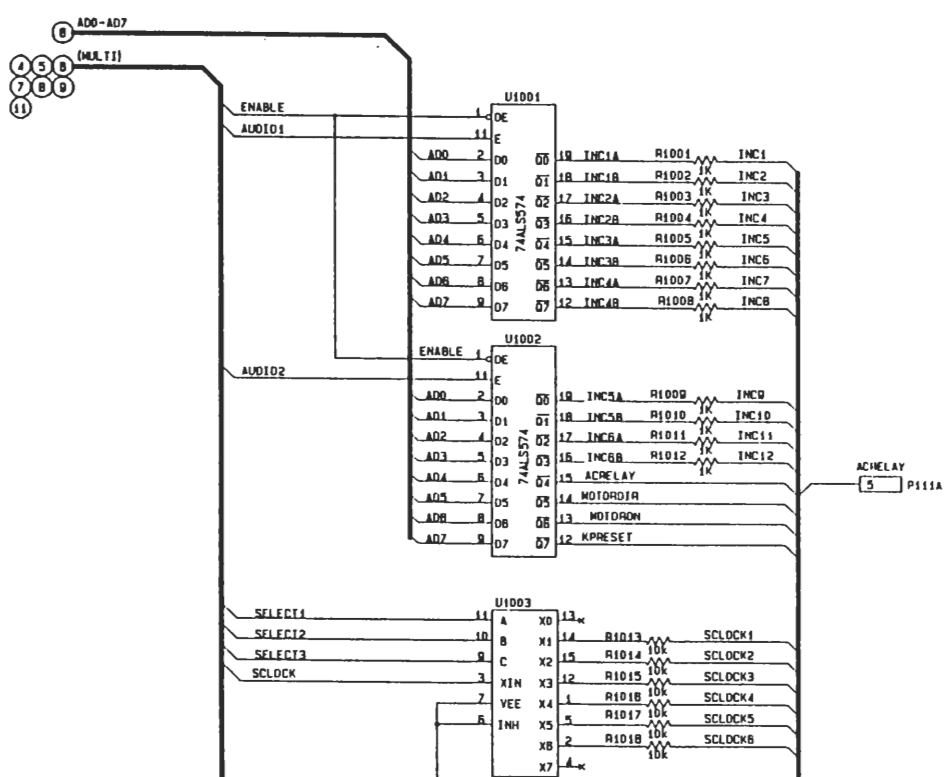
PX600 BOARD 1

B1

SHEET 7 OF 18

PX600 MAIN BOARD 8-19-94


+5V
C800 10uF 16V
C801 0.1uF 50V
C806 0.1uF 50V
C807 0.1uF 50V
GND3
C802 18pF 50V
C803 18pF 50V
Y801 11MHZ
U800
MAX707CPA
RESET
PFI
PFO
U801
80C552
VDD
AVCC
AVREF+
XTAL2
XTAL1
RESET
P34
P35
P14
TXD
RXD
PWM0
PWM1
STADC
NC
AVREF-
VSS
P10
IR1
IR2
XMITEM
IR3
IR4
P111A
ACTRIGGERIN
MUTEIN
P47
ADDRA8
ADDRA9
ADDRA10
ADDRA11
ADDRA12
ADDRA13
ADDRA14
ADDRA15
ALE
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
*RD
*WR
*PSEN
INT0
INT1
IRFILTER
IRWIDE
ZONE1
ZONE2
ZONE3
ZONE4
ZONE5
ZONE6
P106A
ADC0
IR5
SCLOCK
SDATA1
SELECT1
SELECT2
SELECT3
VOLUMEPOT
ADC1
ENABLE
IROUT
U902
74HC573
U903
27C512
U904
74HC14
U804
D51244YN
ADDRA0-ADDRA15
AD0-AD7
(MULTI)
R801 10K
R802 10K
R803 10K
R804 10K
R805 10K
R806 100K
R807 100K
R808 100K
R809 100K
R810 100K
R811 10K
C805 10uF 16V
PX600 BOARD 1
B1
SHEET 8 OF 16
PX600 MAIN BOARD 8-19-94

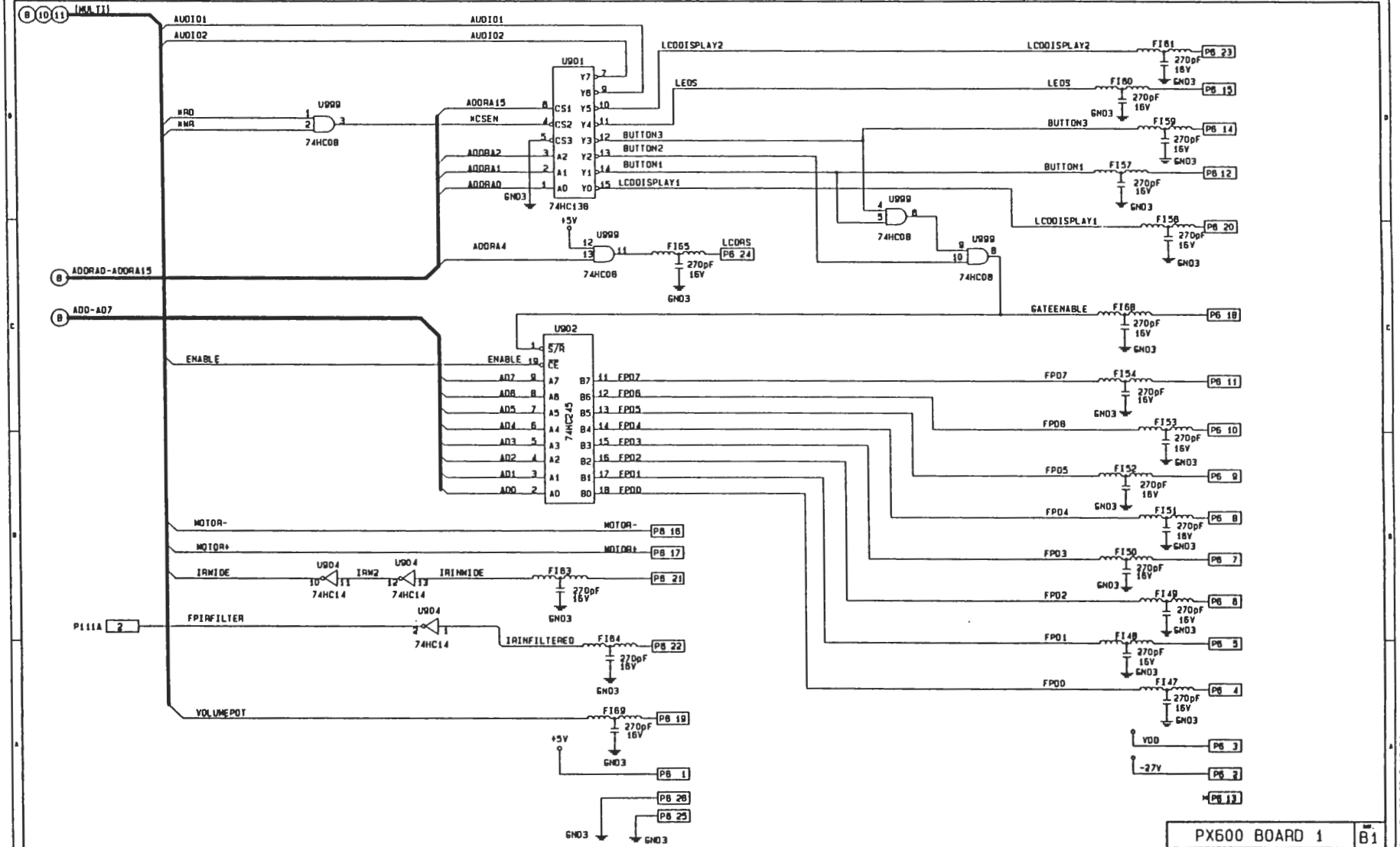


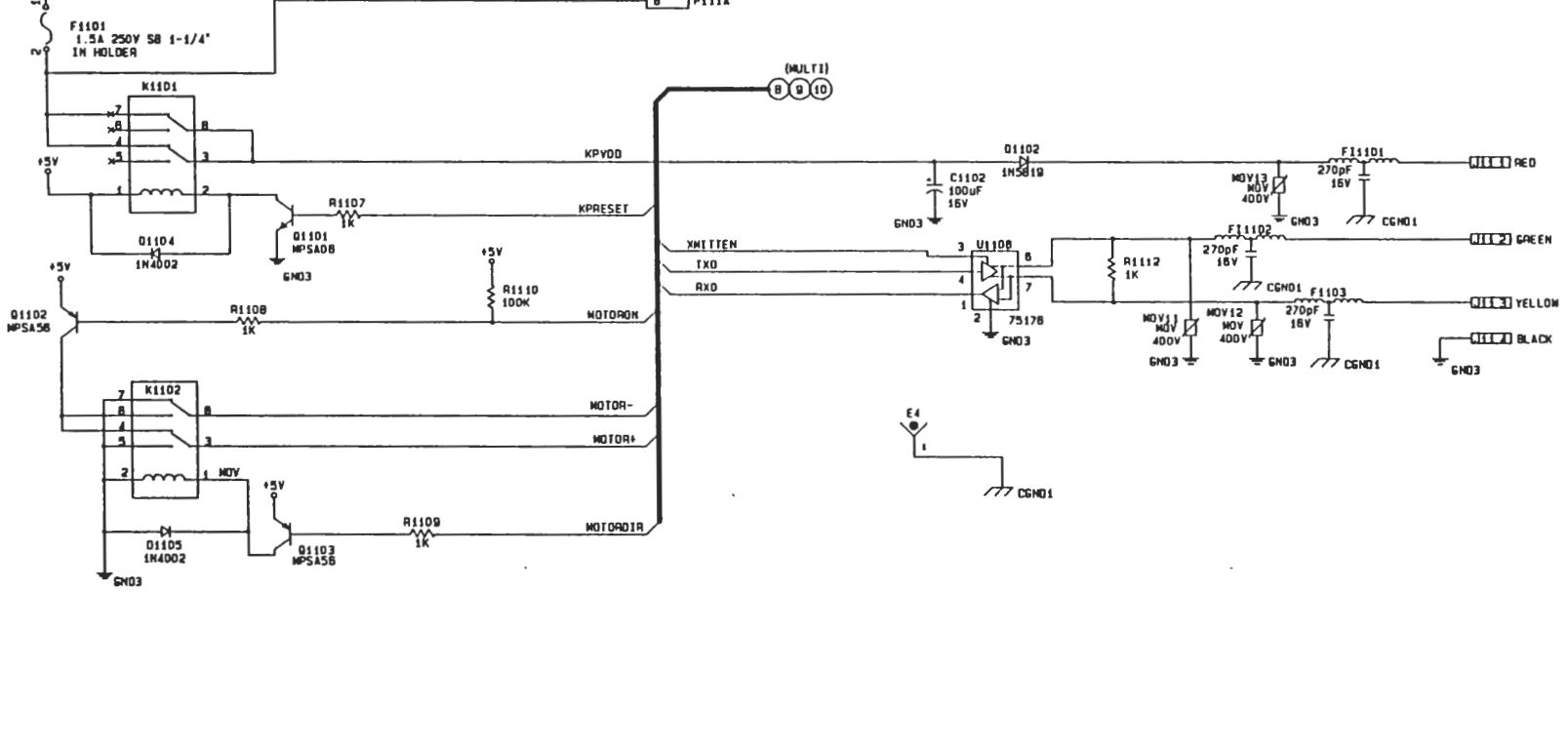
PX600 BOARD 1

B1

SHEET 10 OF 18

PX600 MAIN BOARD 8-10-94

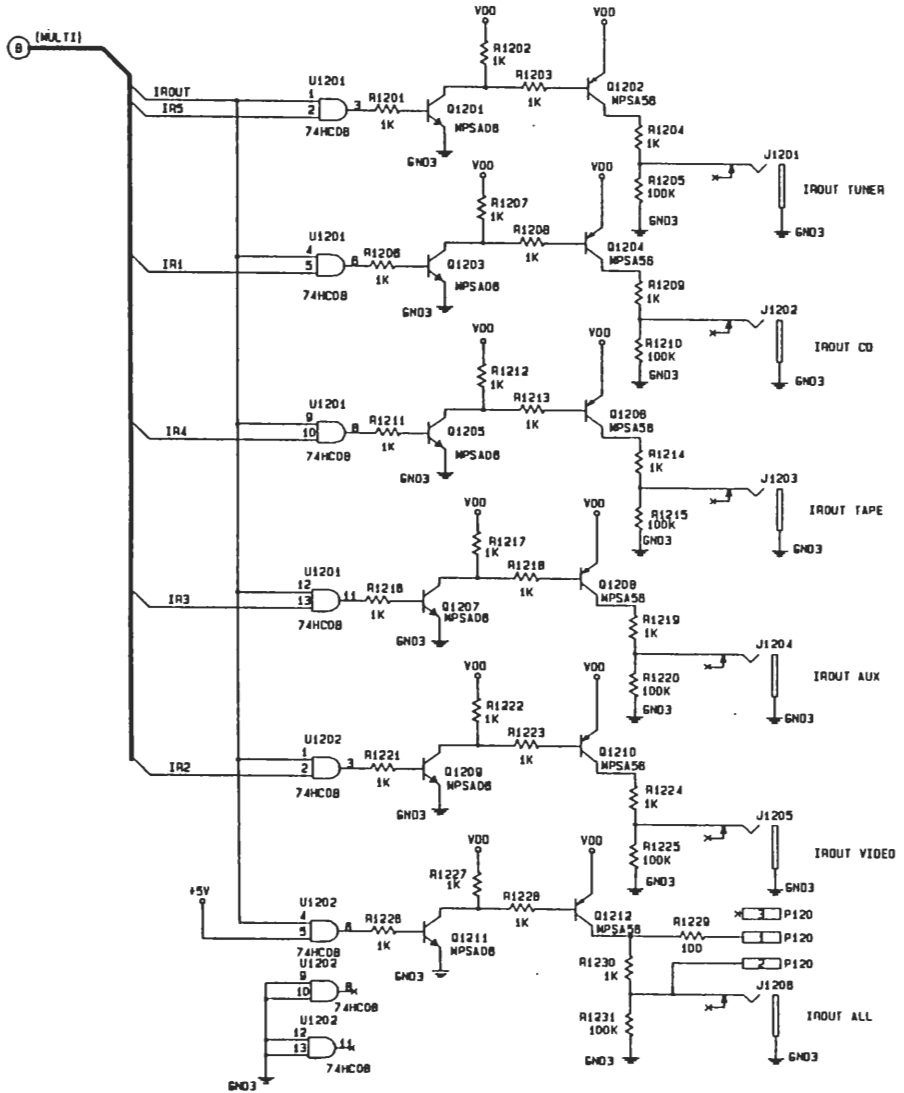

8 10 11 MULTI
AUDIO1
AUDIO2
AUDIO1
AUDIO2
U901
LCDDISPLAY2
LEDS
BUTTON3
BUTTON2
BUTTON1
LCDDISPLAY1
ADDRA15
XCSEN
ADDRA2
ADDRA1
ADDRA0
74HC138
U999
74HC08
RD
WR
ADDRA4
LCDRS
FI65
P6 24
270pF 16V
GND3
+5V
8 ADDRA0-ADDRA15
8 AD0-AD7
U902
74HC245
ENABLE
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
FPD7
FPD6
FPD5
FPD4
FPD3
FPD2
FPD1
FPD0
GATEENABLE
FI61
FI60
FI59
FI57
FI58
FI68
FI54
FI53
FI52
FI51
FI50
FI49
FI48
FI47
P6 23
P6 15
P6 14
P6 12
P6 20
P6 18
P6 11
P6 10
P6 9
P6 8
P6 7
P6 6
P6 5
P6 4
MOTOR-
MOTOR+
IRWIDE
IRNWIDE
IRN2
U904
74HC14
FI63
P6 16
P6 17
P6 21
P111A 2
FPIRFILTER
IRINFILTERED
FI64
P6 22
VOLUMEPOT
FI69
P6 19
P6 1
P6 26
P6 25
VDD
-27V
P6 3
P6 2
P6 13
PX600 BOARD 1
B1
SHEET 9 OF 18
PX600 MAIN BOARD 8-19-94



PX600 BOARD 1 — REV. B1

SHEET 11 OF 18

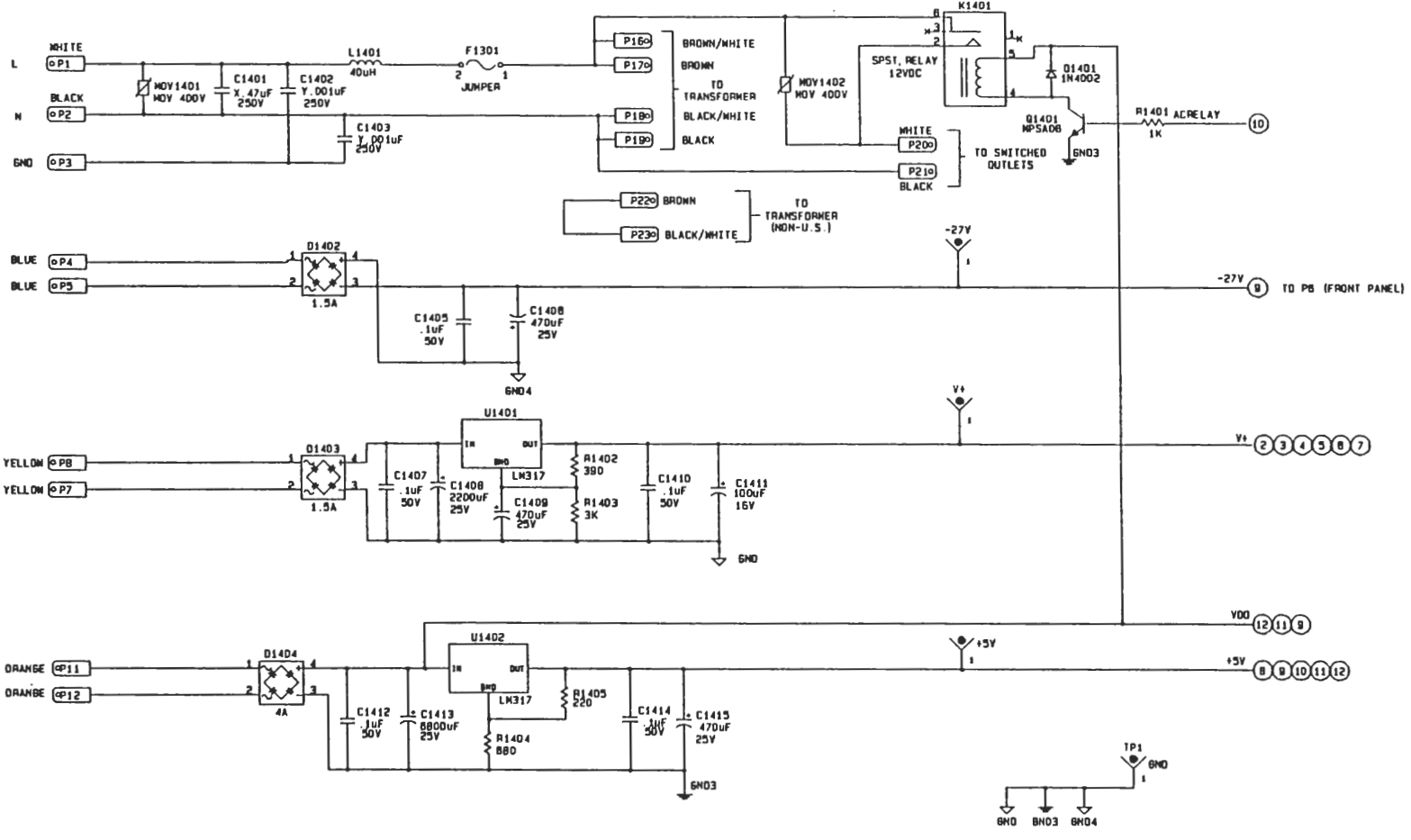
PX600 MAIN BOARD 6-19-94



PX600 BOARD 1 | REV. B1

SHEET 12 OF 18

PX600 MAIN BOARD 6-18-94

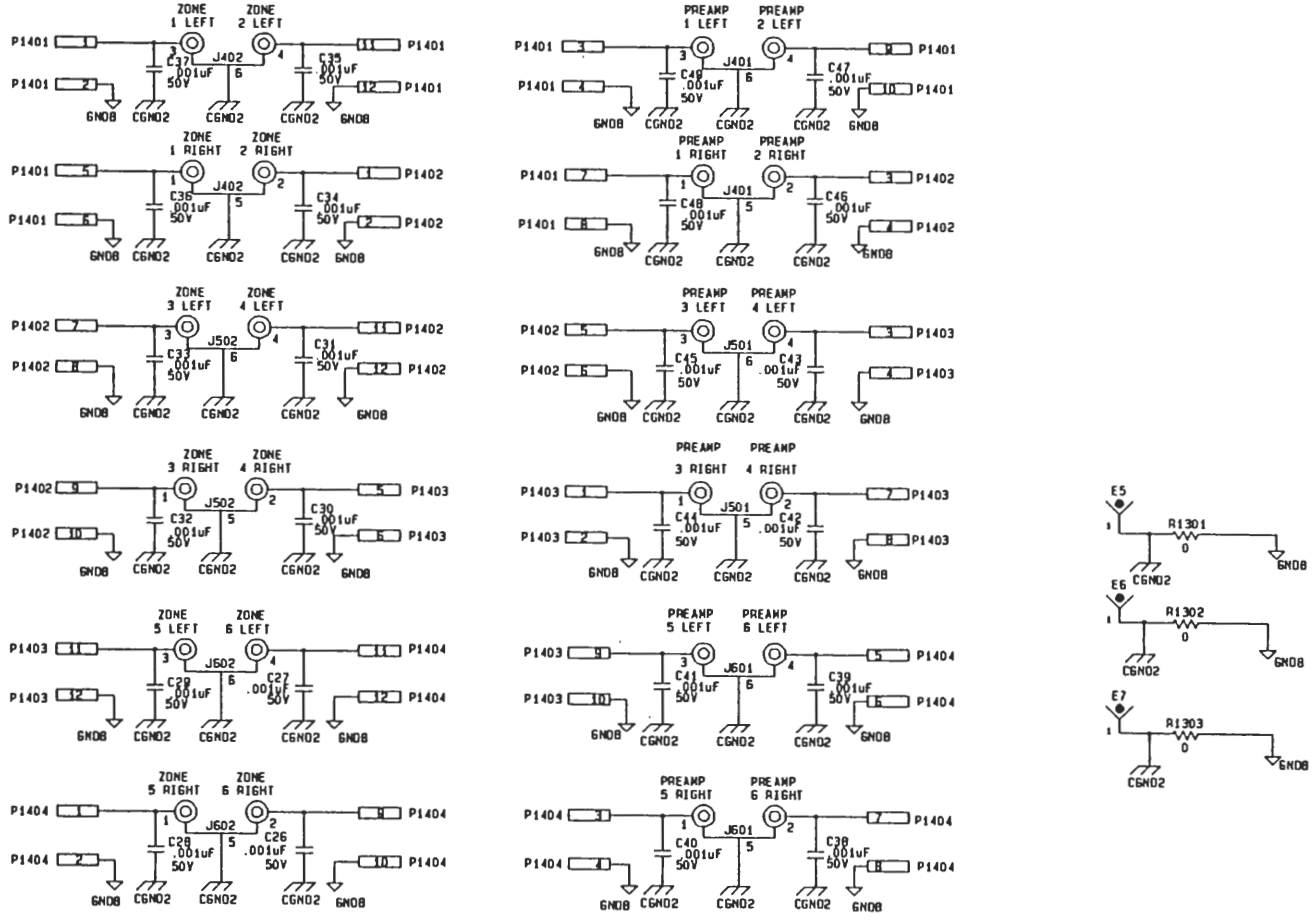


PX600 BOARD 1

81

SHEET 13 OF 16

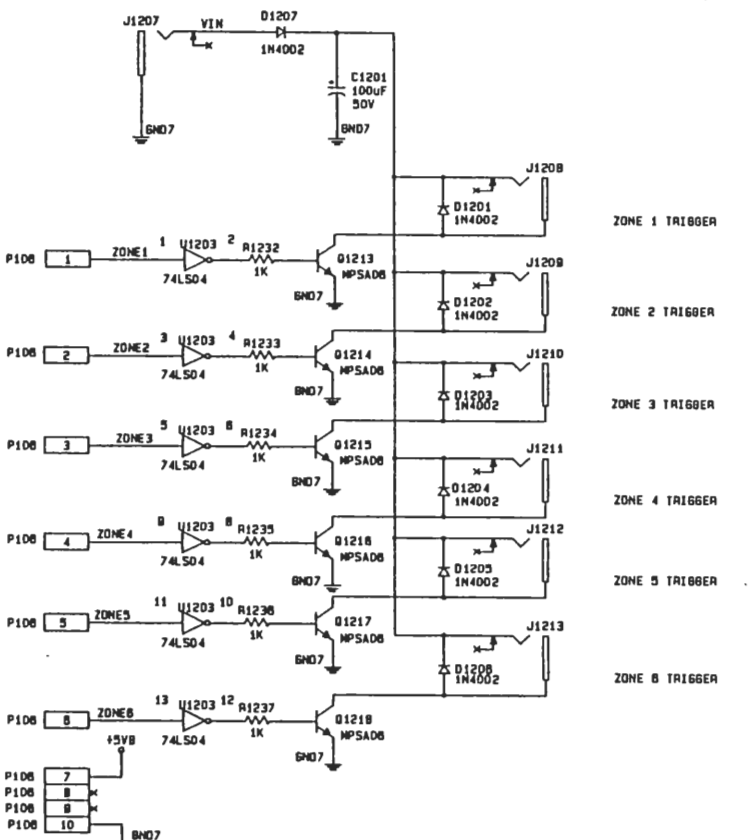
PX600 MAIN BOARD 8-19-94



PX600 BOARD 2 | B1

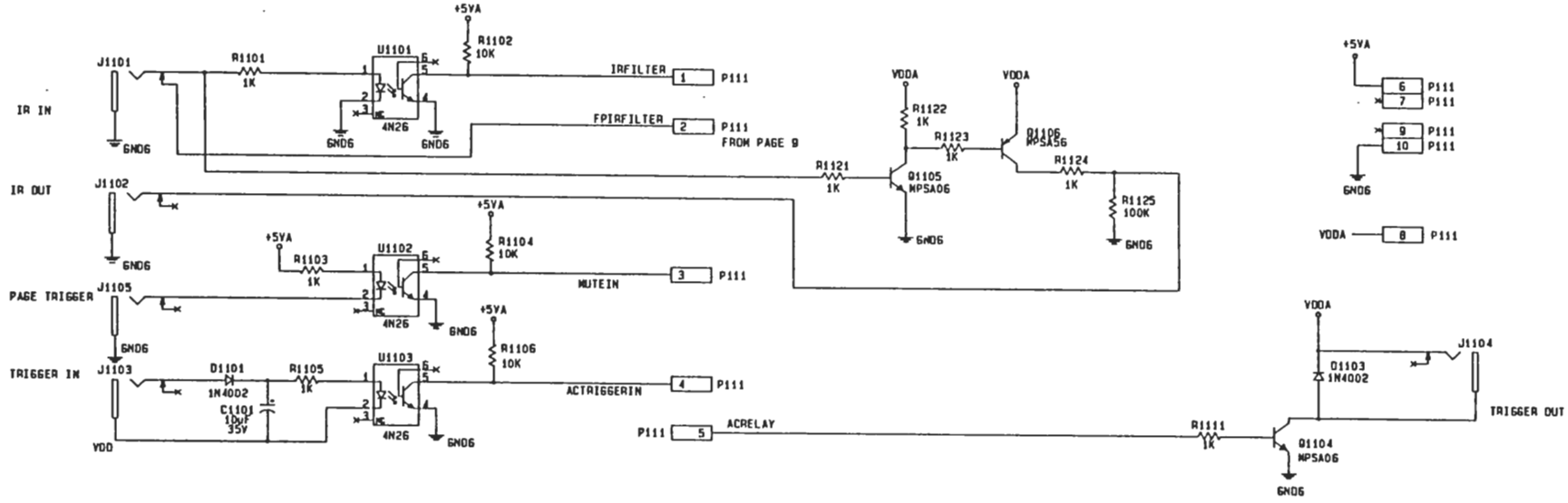
sheet 14 of 16

PX600-MAIN BOARD 8-19-94



PX600 BOARD 3	rev. 81
SHEET 16 OF 16	

PX600 MAIN BOARD 8-19-94



PX600 BOARD 2 | REV. B1

SHEET 15 OF 16

PX600 MAIN BOARD 8-19-94

PX-600

MAIN BOARD

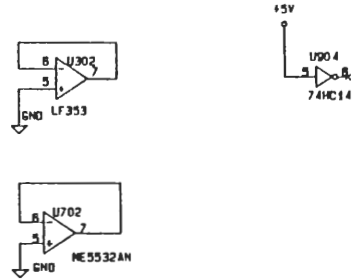
REV C0

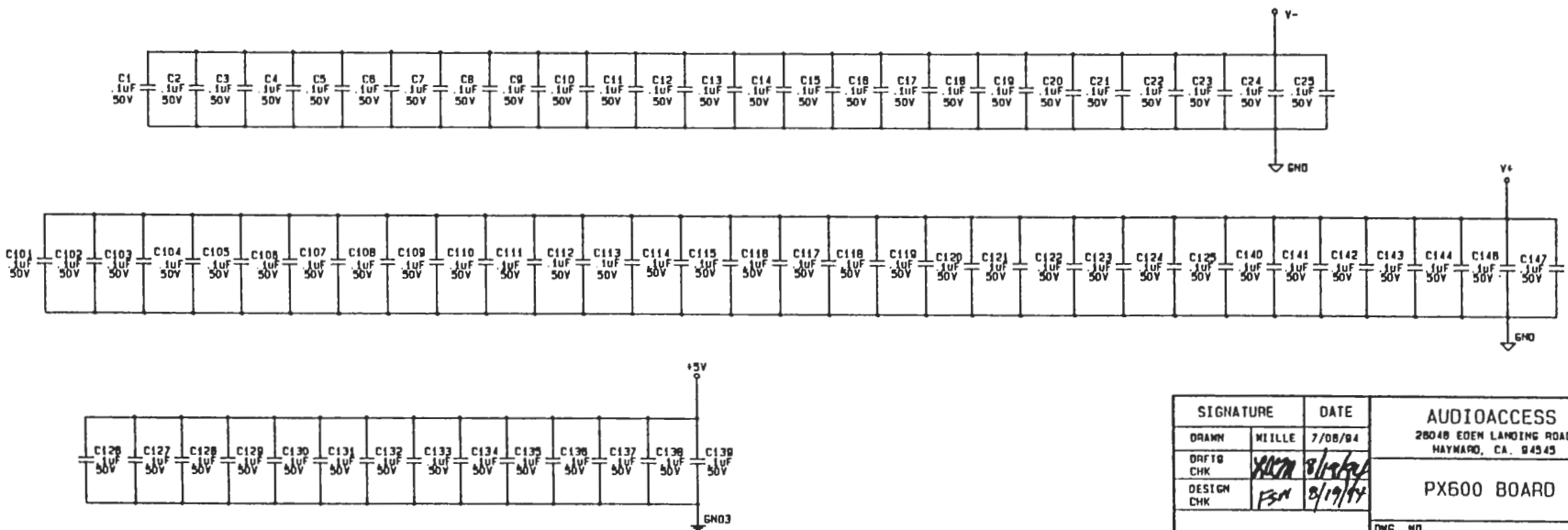
IC CHART

TYPE	VOLTAGE/PIN NO. V+	AGND	+5V	DGND	REFERENCE DESIGNATOR CHART	BYPASS CAP
LF353	8	4	N/A	N/A	U201, U202, U203, U204, U301, U302, U403,	C101-C124
			N/A	N/A	U404, U407, U408, U409, U410, U503, U504,	
			N/A	N/A	U507, U508, U509, U510, U603, U604, U607,	
			N/A	N/A	U608, U609, U610	
NE5532AN	8	4	N/A	N/A	U701, U702	C125, C147
CD4052	SHOWN ON SCH		N/A	N/A	U401, U402, U501, U502, U801, U802	C140-C148
TEA6300	SHOWN ON SCH		N/A	N/A	U405, U406, U505, U506, U805, U606	SHOWN ON SCH
80C552	N/A	N/A	N/A	N/A	U801	SHOWN ON SCH
74HC573	N/A	N/A	20	10	U802	C126
MAX707CPA	N/A	N/A	2	3	U800	C127
27C512	N/A	N/A	28	14	U803	C128
DS1244YM-200	N/A	N/A	28	14	U804	C129
74HC138	N/A	N/A	16	8	U901	C130
74HC245	N/A	N/A	20	10	U902	C131
74HC08	N/A	N/A	14	7	U903, U1201, U1202	C132-C134
74HC14	N/A	N/A	14	7	U904	C135
74LS574	N/A	N/A	20	10	U1001, U1002	C136, C137
CD4051	N/A	N/A	16	8	U1003	C138
74LS04	N/A	N/A	+5V8 14	GND7 7	U1203	C139
75176	N/A	N/A	8	5	U1106	

NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/8W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.





SIGNATURE		DATE
DRAWN	MILLE	7/08/94
DRFTG CHK		8/15/94
DESIGN CHK		8/19/94

PX800C0.SCH

AUDIOACCESS
26048 EDEN LANDING ROAD
HAYWARD, CA. 94545

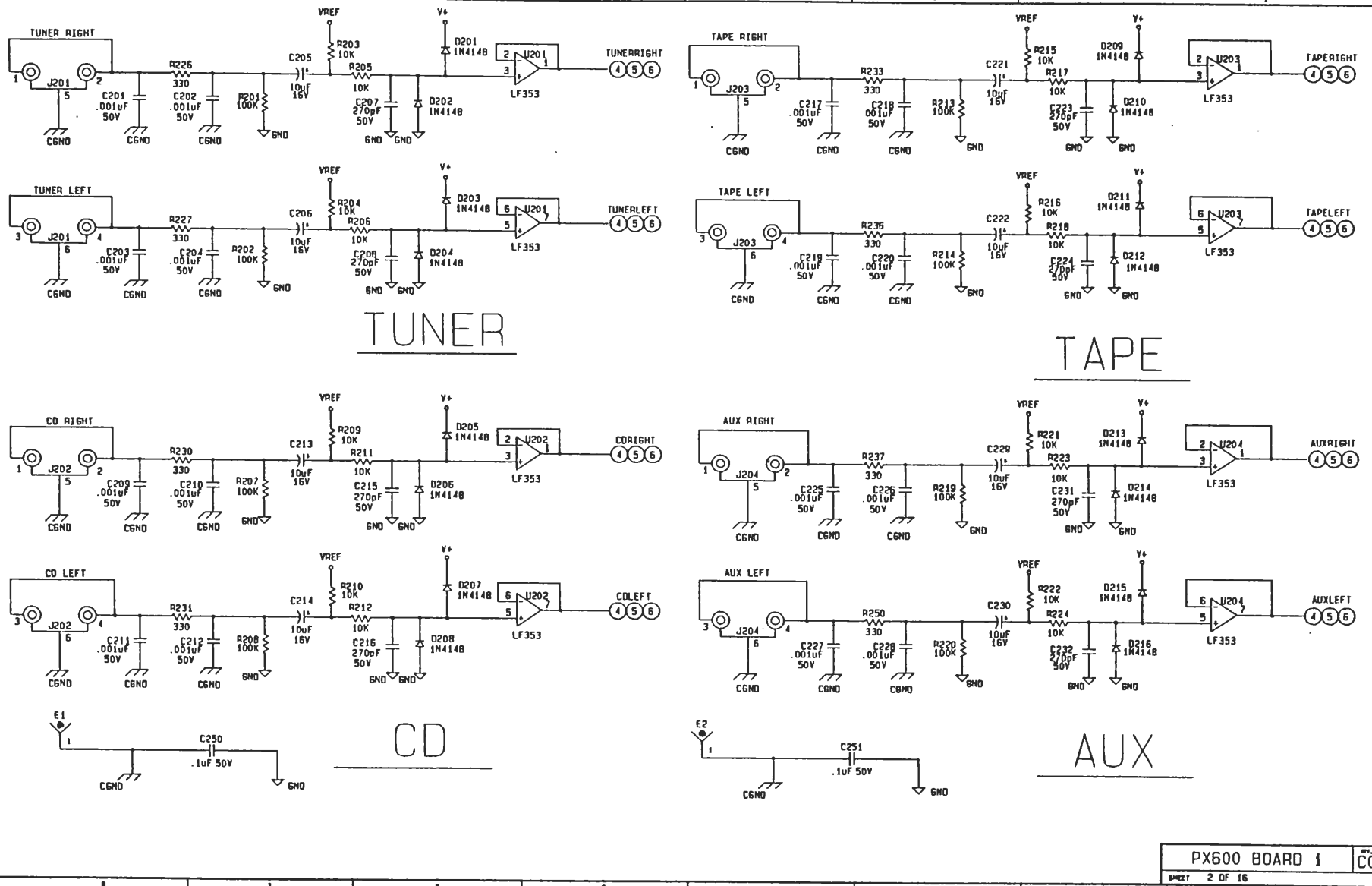
PX600 BOARD 1

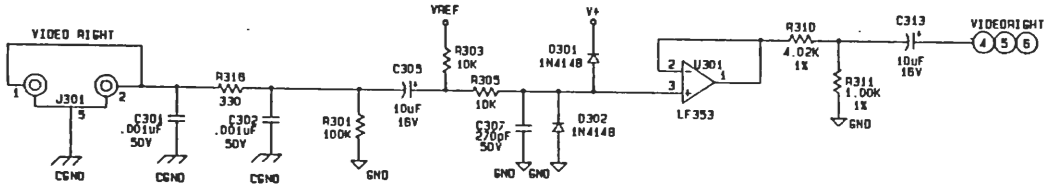
DWG. NO.

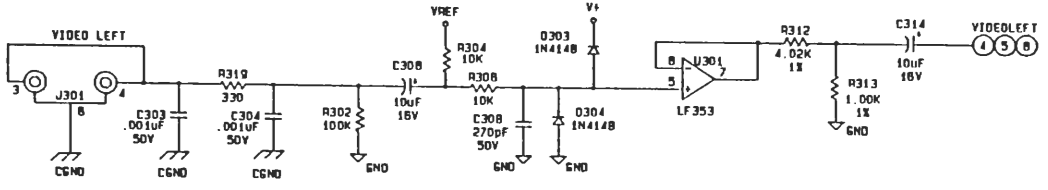
REV. C0

SHEET 1 OF 18

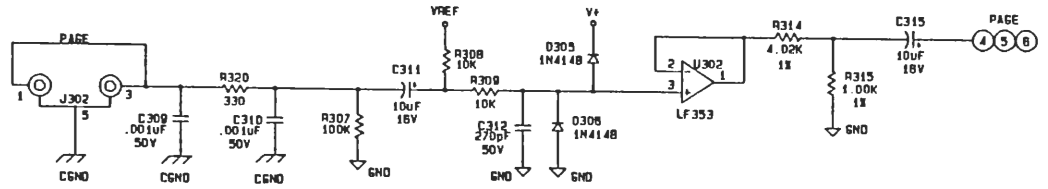
PX600 MAIN BOARD 8-19-94


TUNER RIGHT
J201
C201 .001uF 50V
C202 .001uF 50V
R201 100K
R226 330
C205 10uF 16V
R203 10K
R205 10K
C207 270pF 50V
D201 1N4148
D202 1N4148
U201
LF353
TUNERRIGHT
TUNER LEFT
J201
C203 .001uF 50V
C204 .001uF 50V
R202 100K
R227 330
C206 10uF 16V
R204 10K
R206 10K
C208 270pF 50V
D203 1N4148
D204 1N4148
U201
LF353
TUNERLEFT
VREF
V+
GND
CGND
TUNER
TAPE RIGHT
J203
C217 .001uF 50V
C218 .001uF 50V
R213 100K
R233 330
C221 10uF 16V
R215 10K
R217 10K
C223 270pF 50V
D209 1N4148
D210 1N4148
U203
LF353
TAPERIGHT
TAPE LEFT
J203
C219 .001uF 50V
C220 .001uF 50V
R214 100K
R236 330
C222 10uF 16V
R216 10K
R218 10K
C224 270pF 50V
D211 1N4148
D212 1N4148
U203
LF353
TAPELEFT
TAPE
CD RIGHT
J202
C209 .001uF 50V
C210 .001uF 50V
R207 100K
R230 330
C213 10uF 16V
R209 10K
R211 10K
C215 270pF 50V
D205 1N4148
D206 1N4148
U202
LF353
CDRIGHT
CD LEFT
J202
C211 .001uF 50V
C212 .001uF 50V
R208 100K
R231 330
C214 10uF 16V
R210 10K
R212 10K
C216 270pF 50V
D207 1N4148
D208 1N4148
U202
LF353
CDLEFT
E1
C250 .1uF 50V
CD
AUX RIGHT
J204
C225 .001uF 50V
C226 .001uF 50V
R219 100K
R237 330
C229 10uF 16V
R221 10K
R223 10K
C231 270pF 50V
D213 1N4148
D214 1N4148
U204
LF353
AUXRIGHT
AUX LEFT
J204
C227 .001uF 50V
C228 .001uF 50V
R220 100K
R250 330
C230 10uF 16V
R222 10K
R224 10K
C232 270pF 50V
D215 1N4148
D216 1N4148
U204
LF353
AUXLEFT
E2
C251 .1uF 50V
AUX
PX600 BOARD 1
C0
SHEET 2 OF 16





VIDEO



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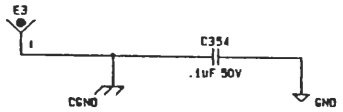
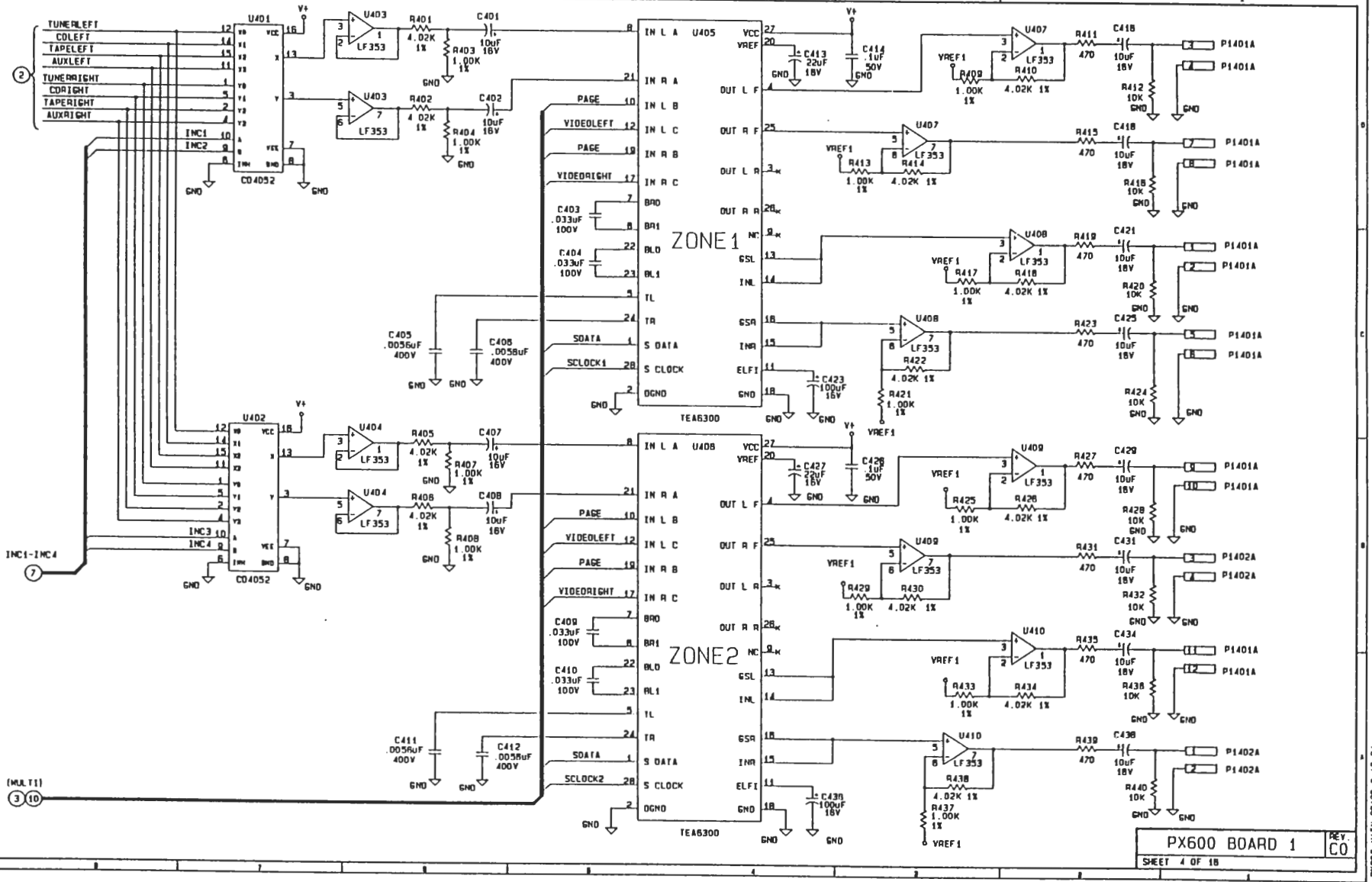
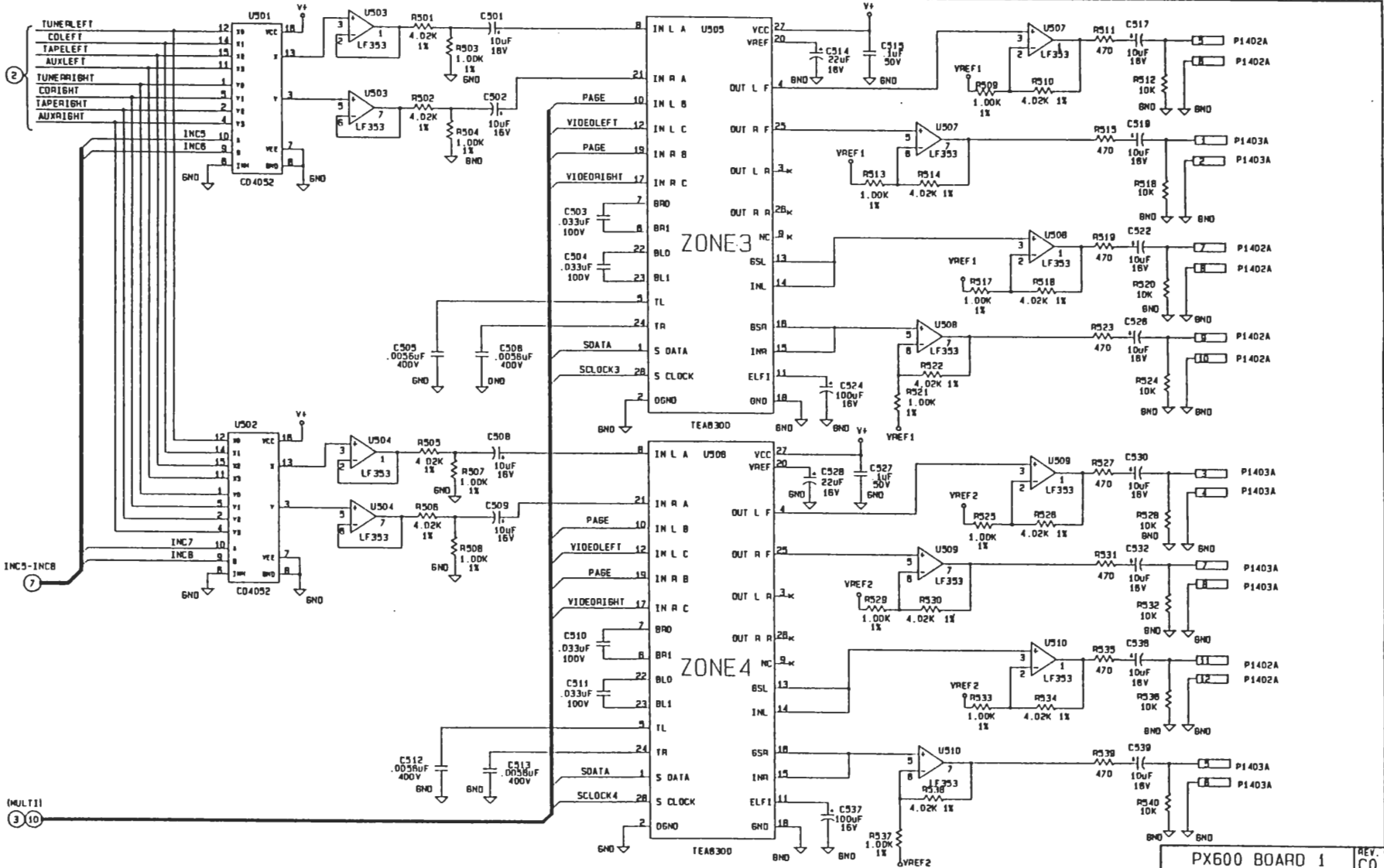


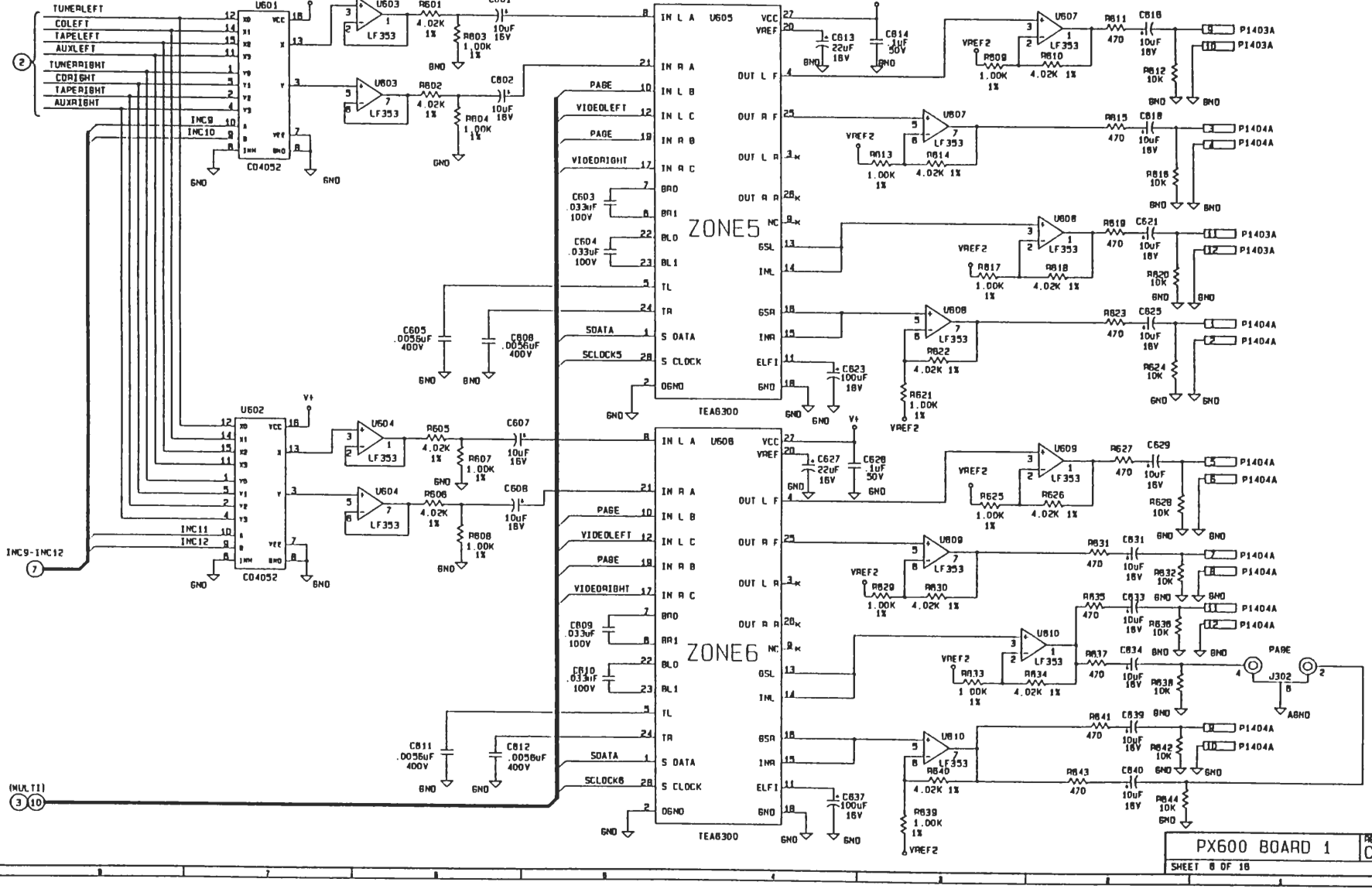
PX600 BOARD 1 | C0

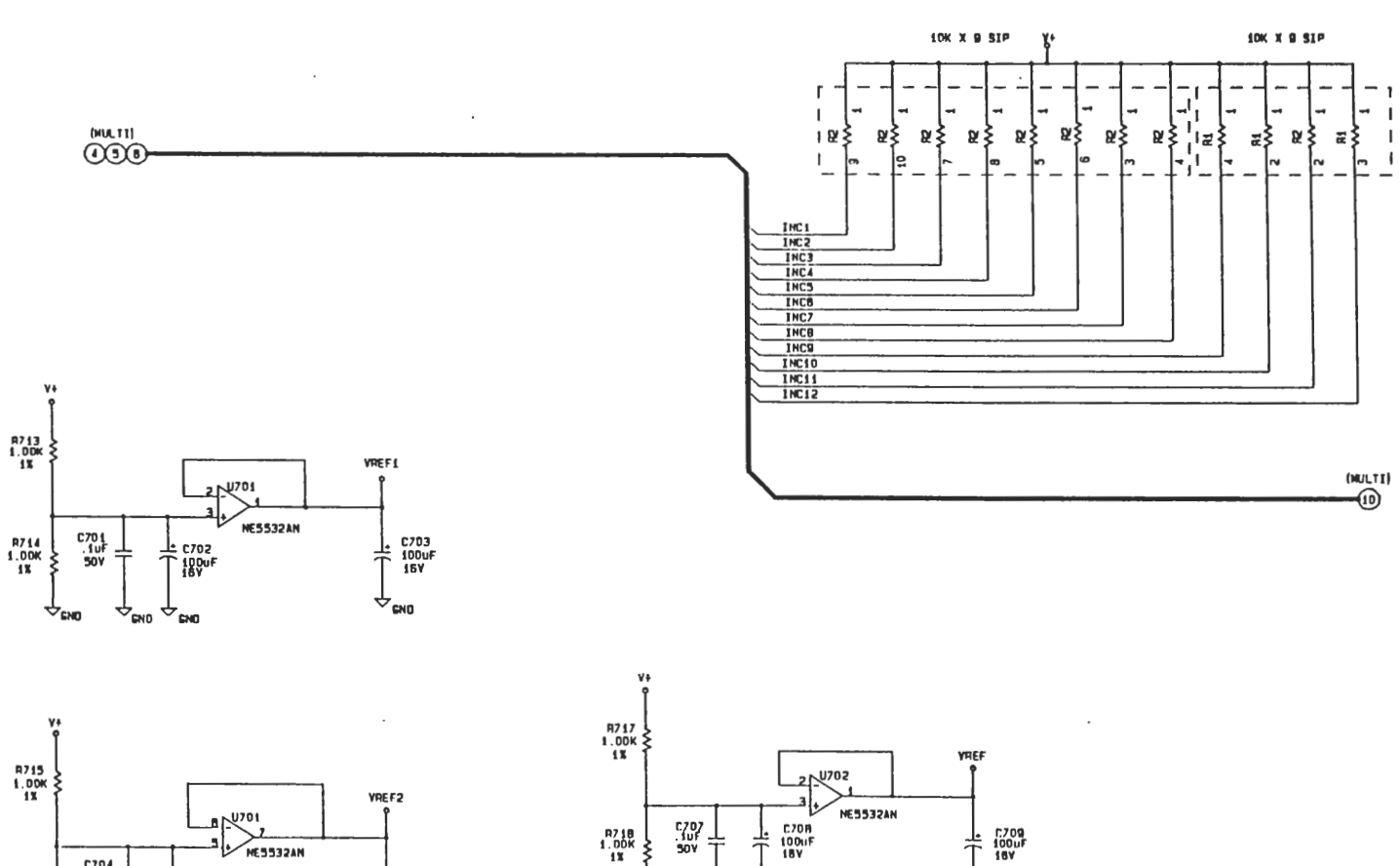
SHEET 3 OF 18

PX600 MAIN BOARD 8-19-94


TUNERLEFT
COLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CORIGHT
TAPERIGHT
AUXRIGHT
INC1
INC2
INC3
INC4
INC1-INC4
(MULTI)
U401
U402
CD4052
U403
U404
LF353
R401
R402
R403
R404
R405
R406
R407
R408
C401
C402
C407
C408
U405
U406
TEA6300
ZONE1
ZONE2
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK1
SCLOCK2
C403
C404
C405
C406
C409
C410
C411
C412
C413
C414
C423
C427
C428
C433
C438
U407
U408
U409
U410
R409
R410
R411
R412
R413
R414
R415
R416
R417
R418
R419
R420
R421
R422
R423
R424
R425
R426
R427
R428
R429
R430
R431
R432
R433
R434
R435
R436
R437
R438
R439
R440
C416
C418
C421
C425
C429
C431
C434
C436
P1401A
P1402A
V+
VREF1
GND
PX600 BOARD 1
REV. C0
SHEET 4 OF 18
P1600 MAIN BOARD 8-19-94


TUNERLEFT
CDLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC5
INC6
INC7
INC8
INC5-INC8
MULTI
U501
U502
CD4052
U503
U504
LF353
R501
R502
R503
R504
R505
R506
R507
R508
4.02K 1%
1.00K 1%
C501
C502
C508
10uF 16V
C503
C504
C505
C506
C509
C510
C511
C512
C513
.033uF 100V
.0056uF 400V
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK3
SCLOCK4
ZONE3
ZONE4
TEA8300
U505
U506
IN L A
IN R A
IN L B
IN R B
IN L C
IN R C
BR0
BR1
BL0
BL1
TL
TR
S DATA
S CLOCK
OGND
VCC
VREF
OUT L F
OUT R F
OUT L A
OUT R A
NC
GSL
INL
GSR
INR
ELFI
GND
C514
22uF 16V
C515
.1uF 50V
C524
100uF 16V
C527
C528
C537
U507
U508
U509
U510
R509
R510
R511
R512
R513
R514
R515
R516
R517
R518
R519
R520
R521
R522
R523
R524
R525
R526
R527
R528
R529
R530
R531
R532
R533
R534
R535
R536
R537
R538
R539
R540
470
10K
VREF1
VREF2
C517
C518
C522
C526
C530
C532
C538
C539
P1402A
P1403A
GND
V+
PX600 BOARD 1
REV. C0
SHEET 5 OF 18
PX600 MAIN BOARD 8-19-94

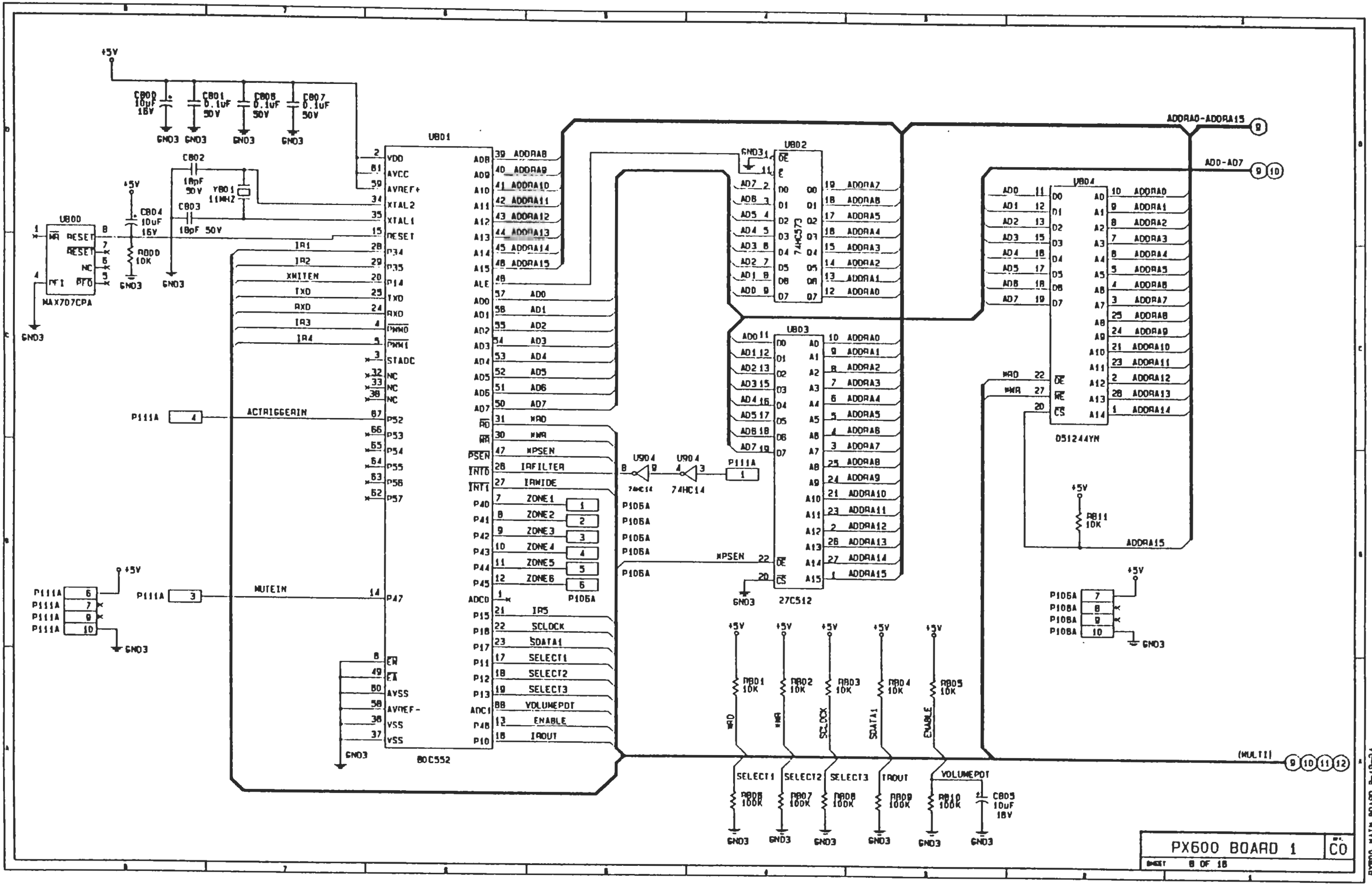

TUNERLEFT
COLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC9
INC10
INC11
INC12
INC9-INC12
(MULTI)
U601
U602
CD4052
U603
U604
LF353
R601
R602
R603
R604
R605
R606
R607
R608
4.02K 1%
1.00K 1%
C601
C602
10uF 16V
C603
C604
.033uF 100V
C605
C606
C607
C608
.0056uF 400V
C609
C610
C611
C612
U605
U606
TEA6300
ZONE5
ZONE6
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK5
SCLOCK6
C613
22uF 16V
C614
1uF 50V
C623
100uF 16V
C627
C628
C637
U607
U608
U609
U610
R609
R610
R611
R612
R613
R614
R615
R616
R617
R618
R619
R620
R621
R622
R623
R624
R625
R626
R627
R628
R629
R630
R631
R632
R633
R634
R635
R636
R637
R638
R639
R640
R641
R642
R643
R644
470
10K
C618
C621
C625
C629
C631
C633
C634
C639
C640
10uF 16V
P1403A
P1404A
J302
AGND
VREF2
PX600 BOARD 1
REV. C0
SHEET 6 OF 16
PX600 MAIN BOARD 6-19-94

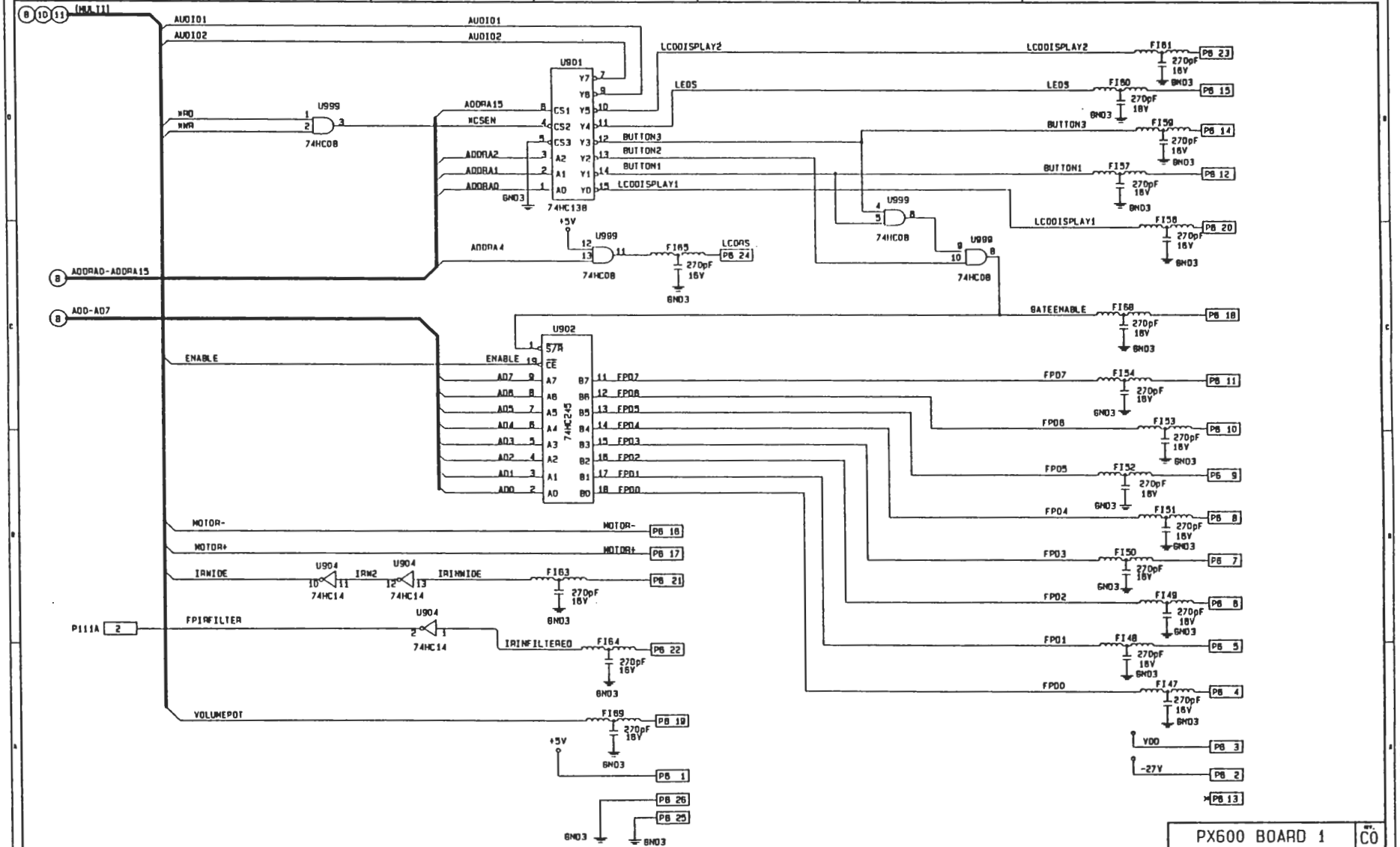


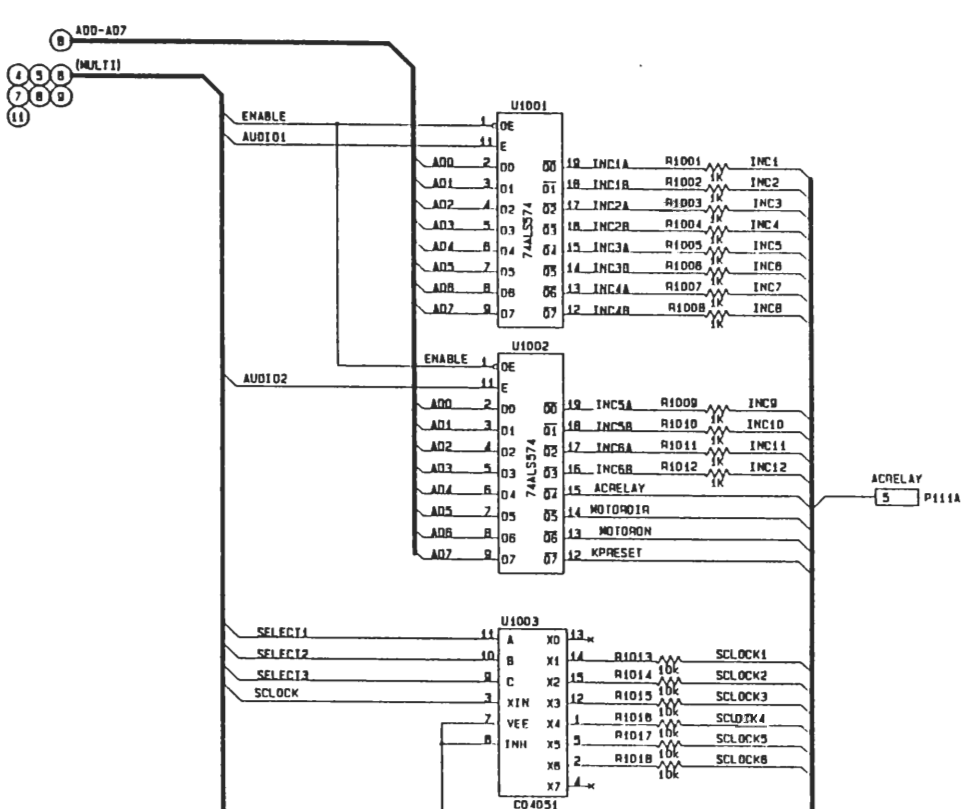
PX600 BOARD 1 C0

SHEET 7 OF 18

PX600 MAIN BOARD 8-19-94


+5V
C800 10uF 16V
C801 0.1uF 50V
C806 0.1uF 50V
C807 0.1uF 50V
GND3
U801
C802 18pF 50V
Y801 11MHZ
C803 18pF 50V
C804 10uF 16V
R800 10K
U800
MAX707CPA
WR RESET
RESET
NC
PFI PFO
VDD
AVCC
AVREF+
XTAL2
XTAL1
RESET
IR1
IR2
XMITEN
TXD
RXD
IR3
IR4
STADC
NC
P111A
ACTRIGGERIN
MUTEIN
EW
EA
AVSS
AVREF-
VSS
80C552
ADDRA8
ADDRA9
ADDRA10
ADDRA11
ADDRA12
ADDRA13
ADDRA14
ADDRA15
ALE
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
WRD
WWR
WPSEN
IRFILTER
IRWIDE
ZONE1
ZONE2
ZONE3
ZONE4
ZONE5
ZONE6
P106A
ADC0
IR5
SCLOCK
SDATA1
SELECT1
SELECT2
SELECT3
VOLUMEPOT
ENABLE
IROUT
U904
74HC14
U802
74HC573
OE
E
D0 D1 D2 D3 D4 D5 D6 D7
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
ADDRA0
ADDRA1
ADDRA2
ADDRA3
ADDRA4
ADDRA5
ADDRA6
ADDRA7
U803
27C512
CS
ADDRA0-ADDRA15
AD0-AD7
U804
D51244YN
WE
R811 10K
P108A
R801 10K
R802 10K
R803 10K
R804 10K
R805 10K
R806 100K
R807 100K
R808 100K
R809 100K
R810 100K
C805 10uF 16V
(MULTI)
PX600 BOARD 1
SHEET 8 OF 18
C0
PX600 MAIN BOARD 8-19-94

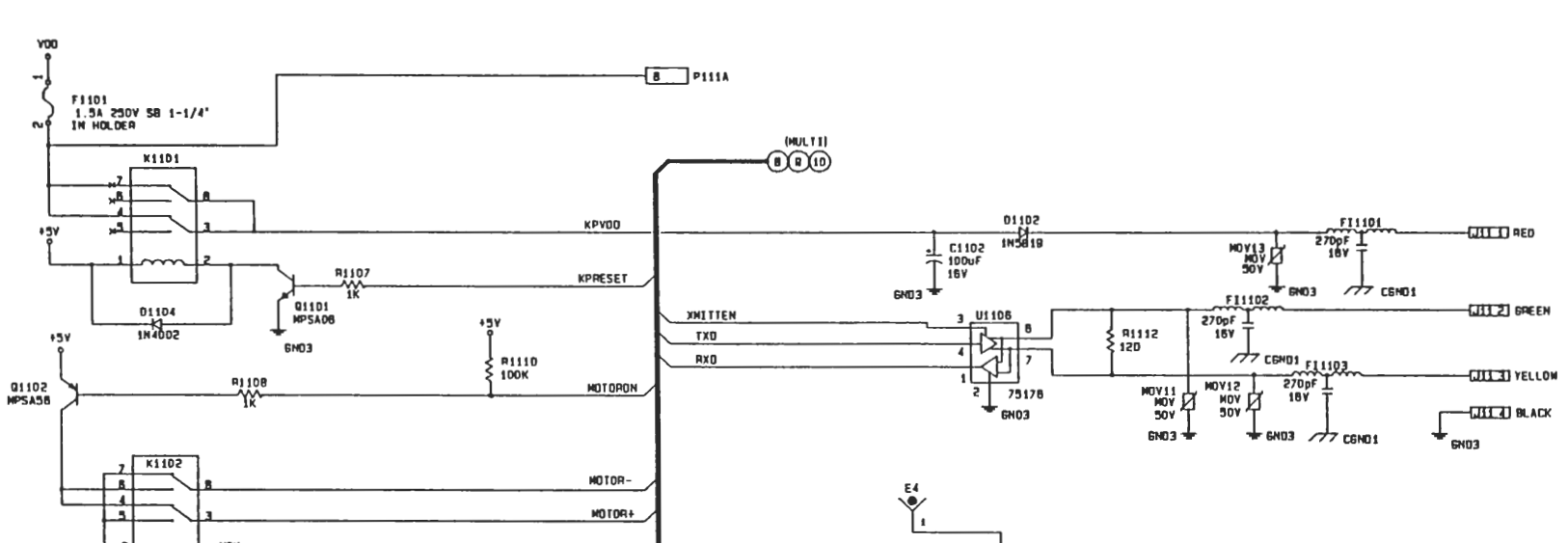

(MUX 11)
AUDIO1
AUDIO2
U901
74HC138
U902
74HC245
U904
74HC14
U999
74HC08
ADDRAD-ADDRA15
ADD-AD7
ENABLE
MOTOR-
MOTOR+
IRWIDE
IRINWIDE
FPIRFILTER
IRINFILTERED
VOLUMEPOT
LCDDISPLAY2
LEDS
BUTTON3
BUTTON2
BUTTON1
LCDDISPLAY1
LCDRS
GATEENABLE
FPD7
FPD6
FPD5
FPD4
FPD3
FPD2
FPD1
FPD0
VDD
-27V
270pF 16V
GND3
+5V
PX600 BOARD 1
C0
SHEET 9 OF 16
PX600 MAIN BOARD 5-19-94



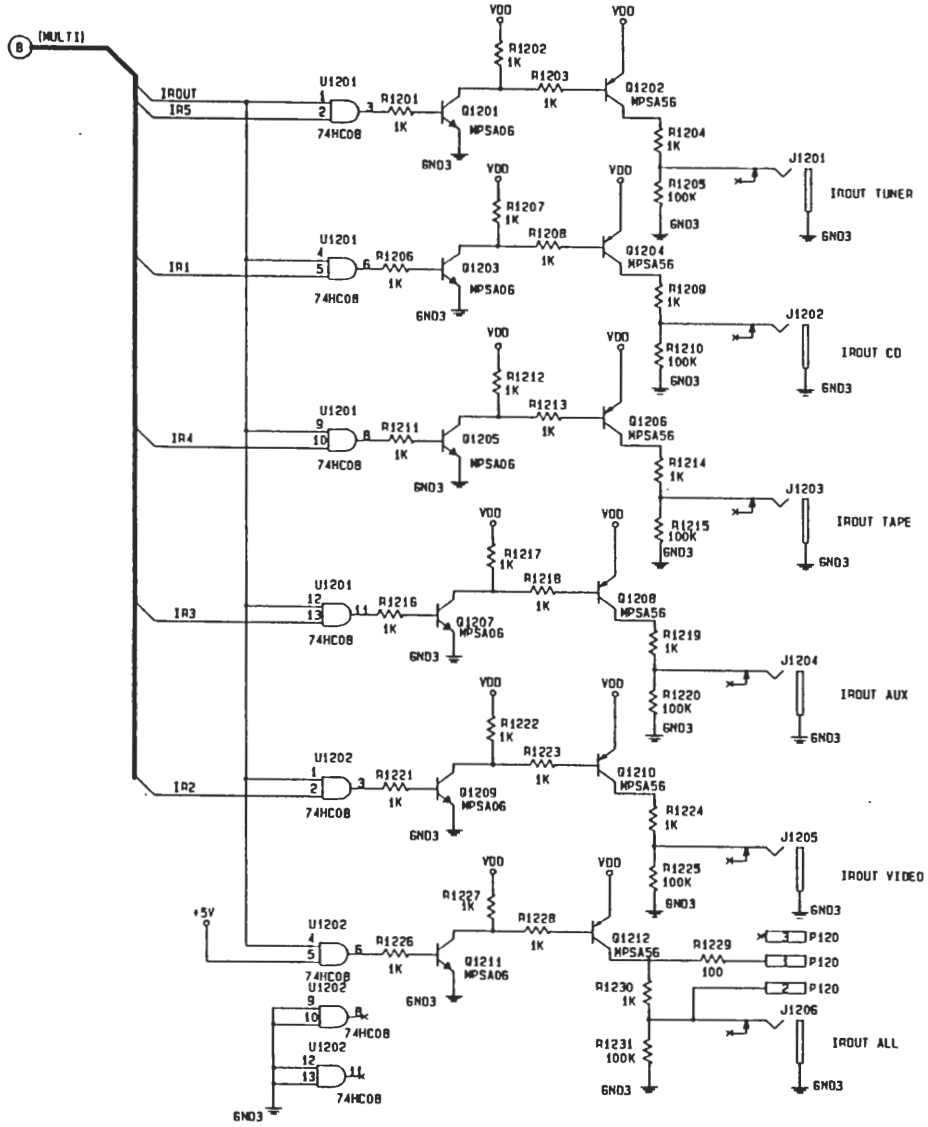
PX600 BOARD 1 | REV. C0

SHEET 10 OF 18

PX600 MAIN BOARD 8-19-94



PX600 BOARD 1	REV. C0
SHEET 11 OF 16	

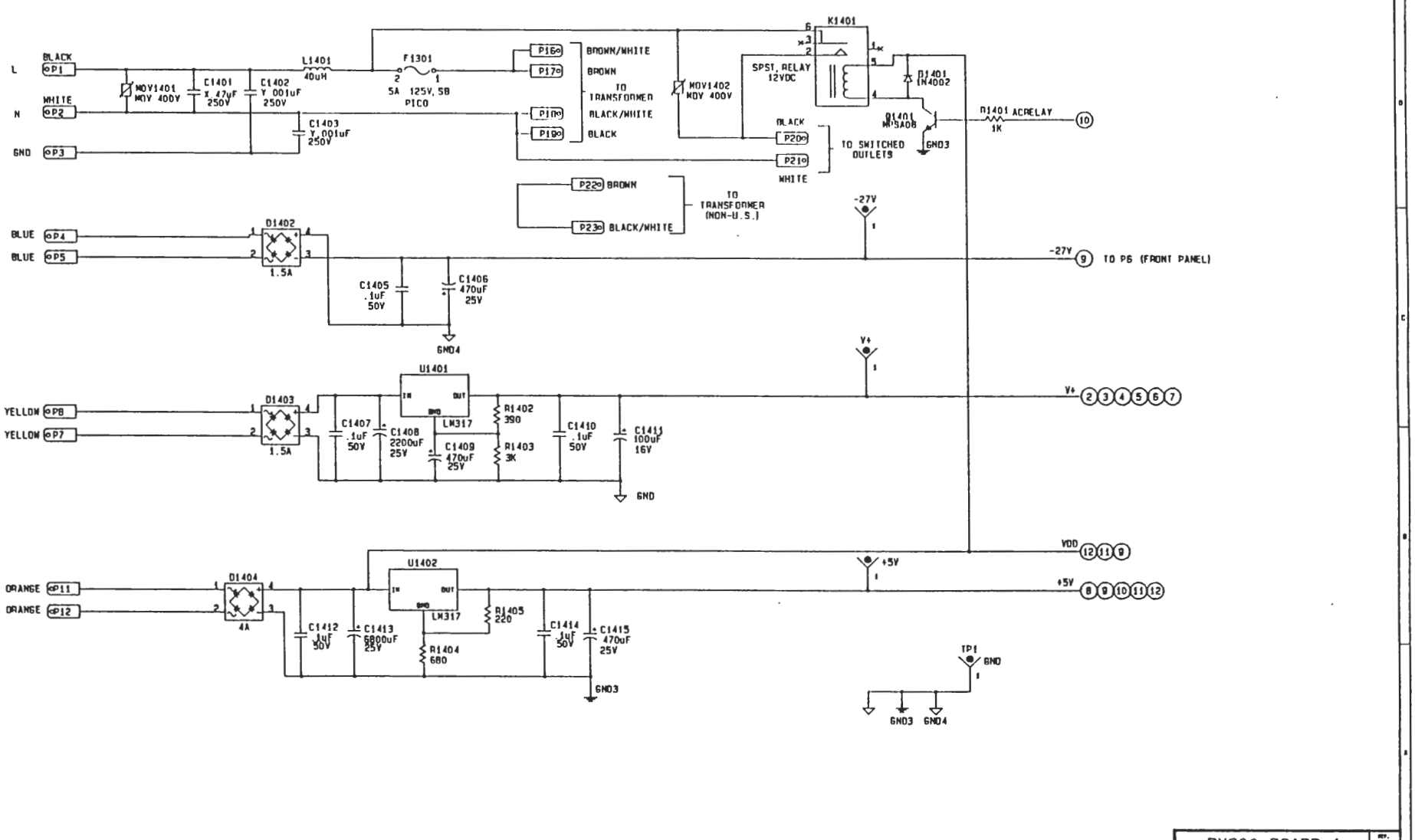


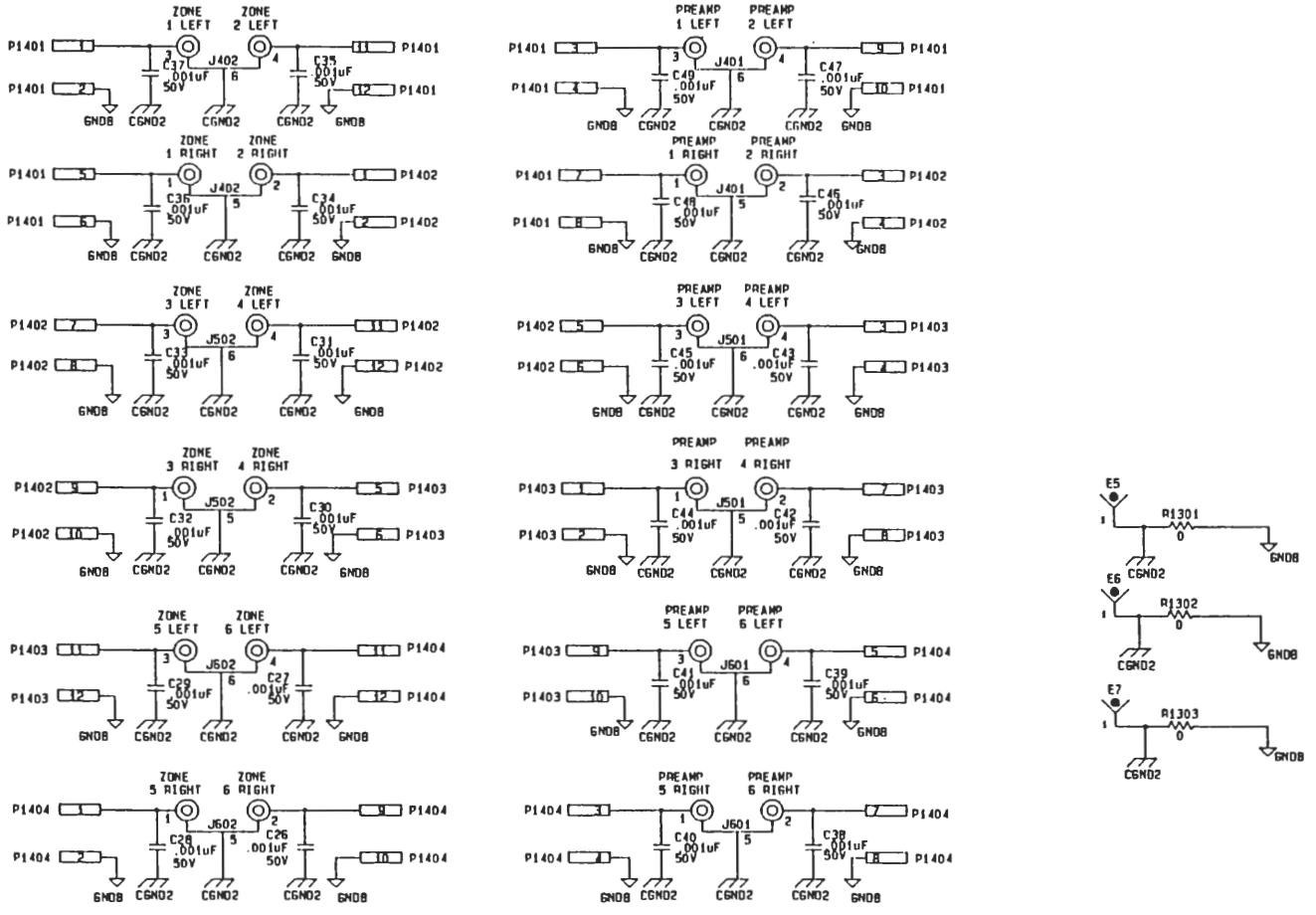
PX600 BOARD 1

CO

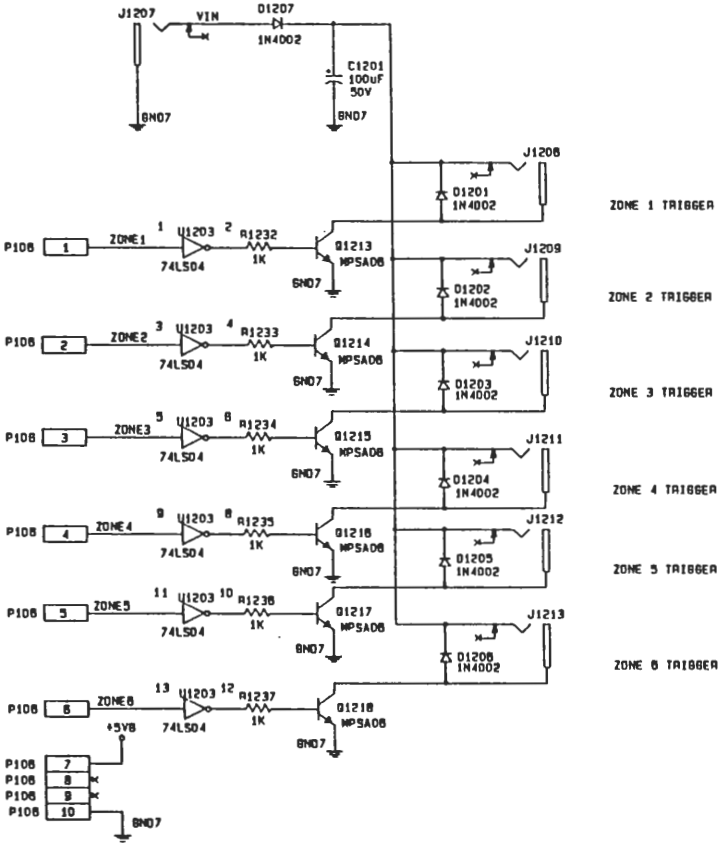
SHEET 12 OF 16

PX600 MAIN BOARD 8-19-94


L
N
GND
BLACK
WHITE
P1
P2
P3
MOV1401
MOV 400V
C1401
.47uF
250V
C1402
.001uF
250V
C1403
.001uF
250V
L1401
40uH
F1301
5A 125V, SB
PICO
P16
P17
P18
P19
BROWN/WHITE
BROWN
TO TRANSFORMER
BLACK/WHITE
BLACK
MOV1402
MOV 400V
K1401
SPST, RELAY
12VDC
D1401
1N4002
Q1401
MPSA08
GND3
R1401 ACRELAY
1K
10
BLACK
P20
P21
WHITE
TO SWITCHED OUTLETS
P22
P23
BROWN
BLACK/WHITE
TO TRANSFORMER (NON-U.S.)
-27V
BLUE
P4
P5
D1402
1.5A
C1405
.1uF
50V
C1406
470uF
25V
GND4
-27V
9
TO P6 (FRONT PANEL)
V+
YELLOW
P8
P7
D1403
1.5A
U1401
LM317
C1407
.1uF
50V
C1408
2200uF
25V
C1409
470uF
25V
R1402
390
R1403
3K
C1410
.1uF
50V
C1411
100uF
16V
GND
V+
2
3
4
5
6
7
VDD
12
11
9
+5V
ORANGE
P11
P12
D1404
4A
U1402
LM317
C1412
.1uF
50V
C1413
6800uF
25V
R1404
680
R1405
220
C1414
.1uF
50V
C1415
470uF
25V
GND3
+5V
8
9
10
11
12
TP1
GND
GND3
GND4
PX600 BOARD 1
REV. C0
SHEET 13 OF 16
PX600 MAIN BOARD 8-19-94



PX600 BOARD 2	REV. C0
SHEET 14 of 16	

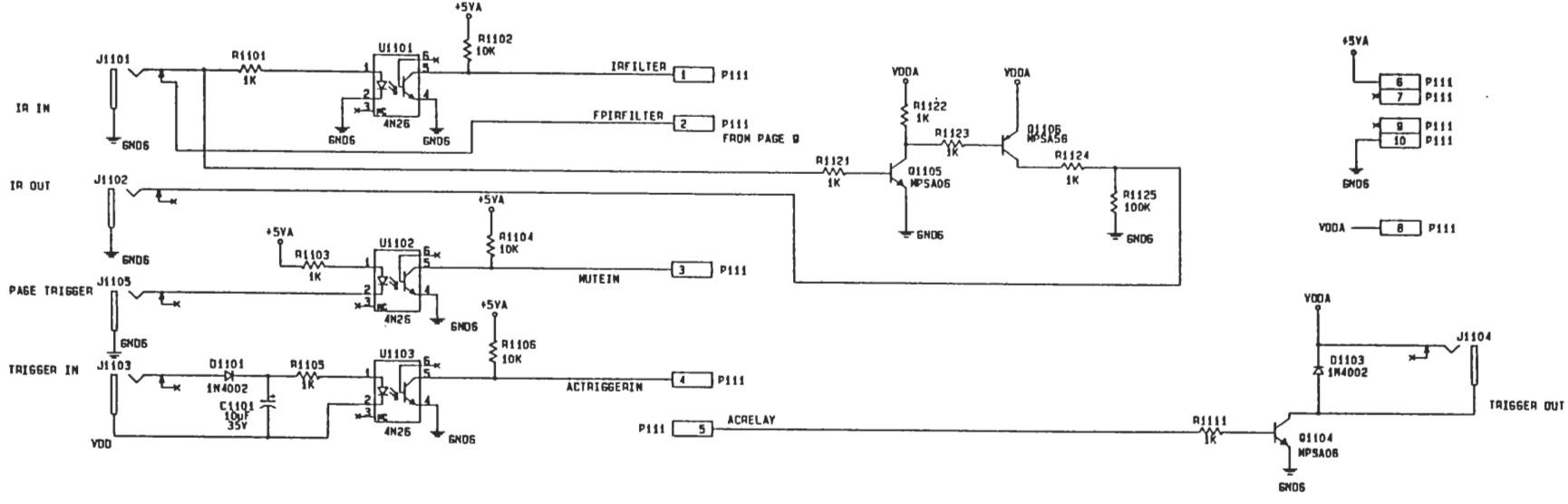


PX600 BOARD 3

REV. C0

SHEET 16 OF 18

PX600 MAIN BOARD 8-19-94



PX600 BOARD 2 — C0

SHEET 15 OF 16

PX600 MAIN BOARD 8-19-94

PX-600

MAIN BOARD

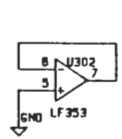
REV C1

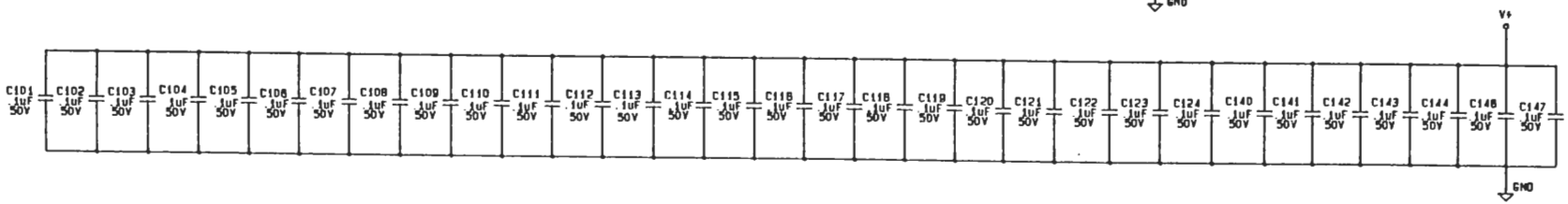
IC CHART

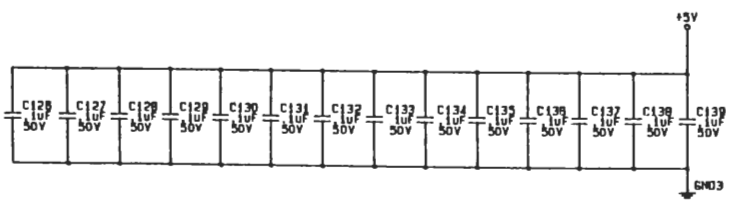
TYPE	VOLTAGE/PIN NO. V+	AGND	+5V	DGND	REFERENCE DESIGNATOR CHART	BYPASS CAP
LF353	8	4	N/A	N/A	U201, U202, U203, U204, U301, U302, U403,	C101-C124
			N/A	N/A	U404, U407, U408, U409, U410, U503, U504,	
			N/A	N/A	U507, U508, U509, U510, U603, U604, U607,	
			N/A	N/A	U608, U609, U610	
NE5532AN	8	4	N/A	N/A	U701, U702	C125, C147
CD4052	SHOWN ON SCH		N/A	N/A	U401, U402, U501, U502, U601, U602	C140-C146
TEA6300	SHOWN ON SCH		N/A	N/A	U405, U406, U505, U506, U605, U606	SHOWN ON SCH
80C552	N/A	N/A	N/A	N/A	U801	SHOWN ON SCH
74HC573	N/A	N/A	20	10	U802	C126
MAX707CPA	N/A	N/A	2	3	U800	C127
27C512	N/A	N/A	28	14	U803	C128
DS1244YM-200	N/A	N/A	28	14	U804	C129
74HC138	N/A	N/A	16	8	U901	C130
74HC245	N/A	N/A	20	10	U902	C131
74HC08	N/A	N/A	14	7	U903, U1201, U1202	C132-C134
74HC14	N/A	N/A	14	7	U904	C135
74LS574	N/A	N/A	20	10	U1001, U1002	C136, C137
CD4051	N/A	N/A	16	8	U1003	C138
74LS04	N/A	N/A	+5V 8 14	GND 7	U1203	C139
75176	N/A	N/A	8	5	U1108	

NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST
2. ALL RESISTORS ARE 1/8W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED







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DRAWN	MILLE	7-06-94
DRFTG CHK	[illegible]	8/19/94
DESIGN CHK	PSN	8/19/94

PX600C1.SCH

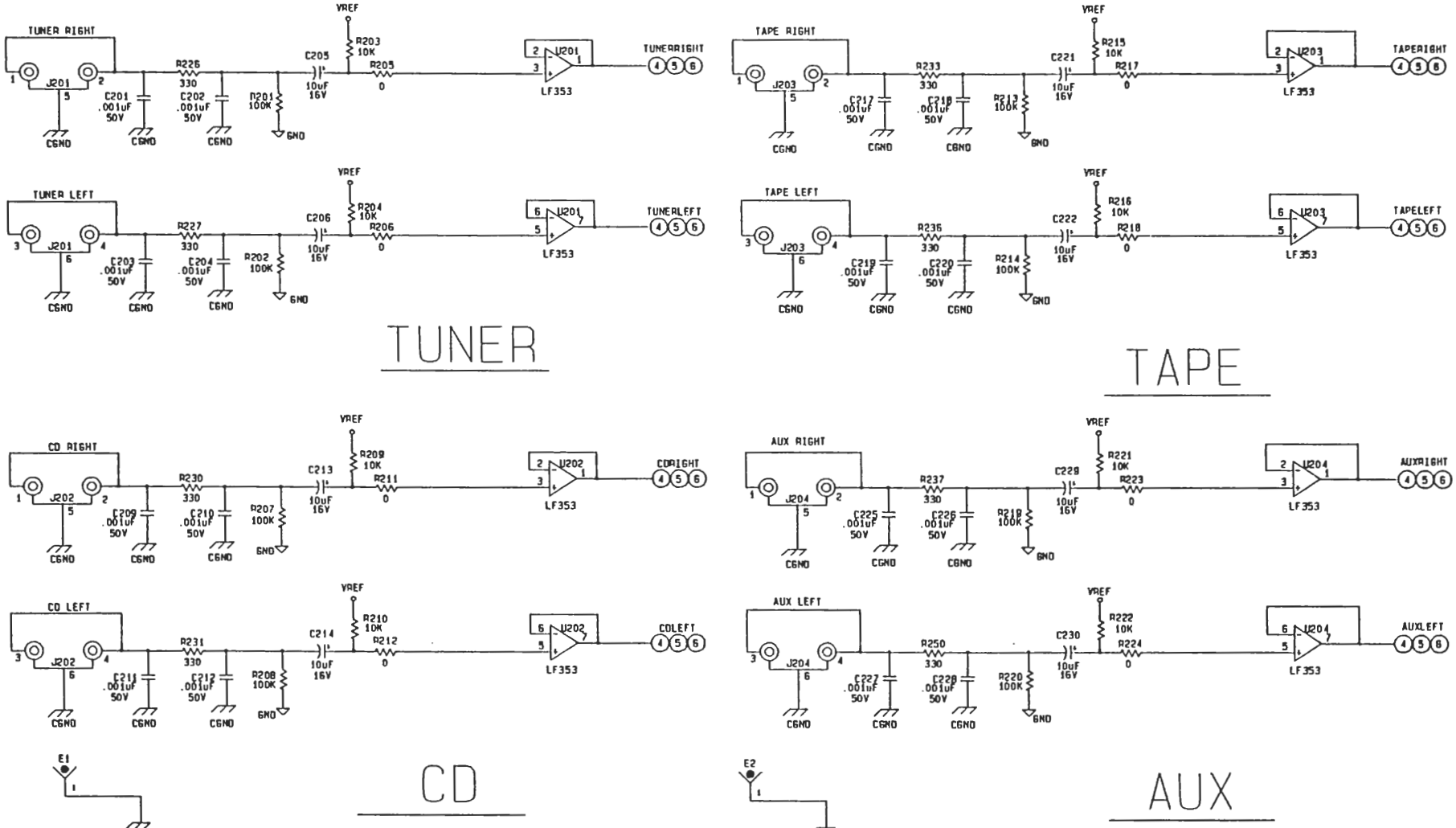
AUDIOACCESS
26046 EDEN LANDING ROAD
HAYWARD, CA. 94545

PX600 BOARD 1

DWG. NO. | REV. C1

SHEET 1 OF 18

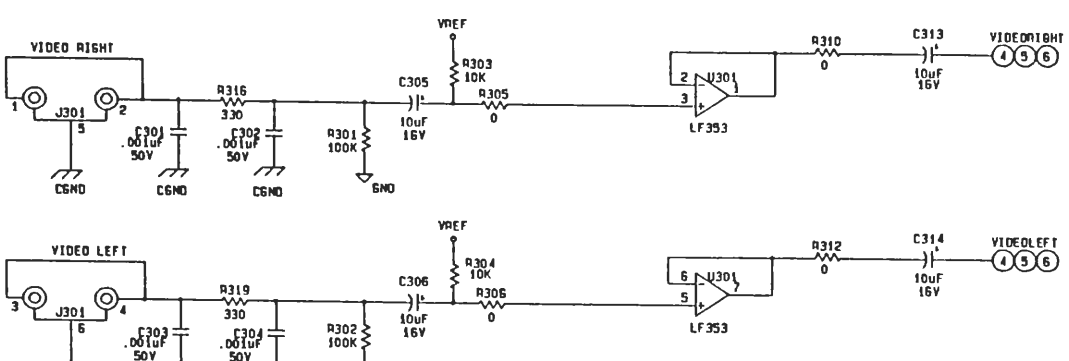
PX600 MAIN BOARD 8-19-94



PX600 BOARD 1 REV. C1

SHEET 2 OF 16

PX600 MAIN BOARD 8-19-94



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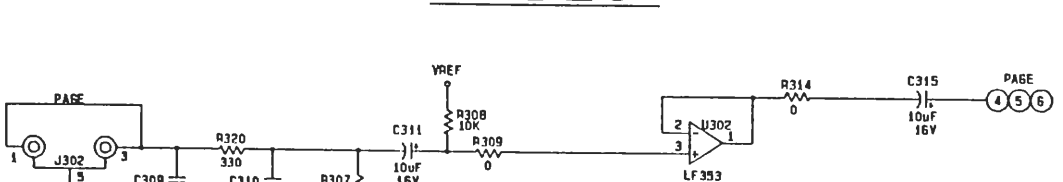

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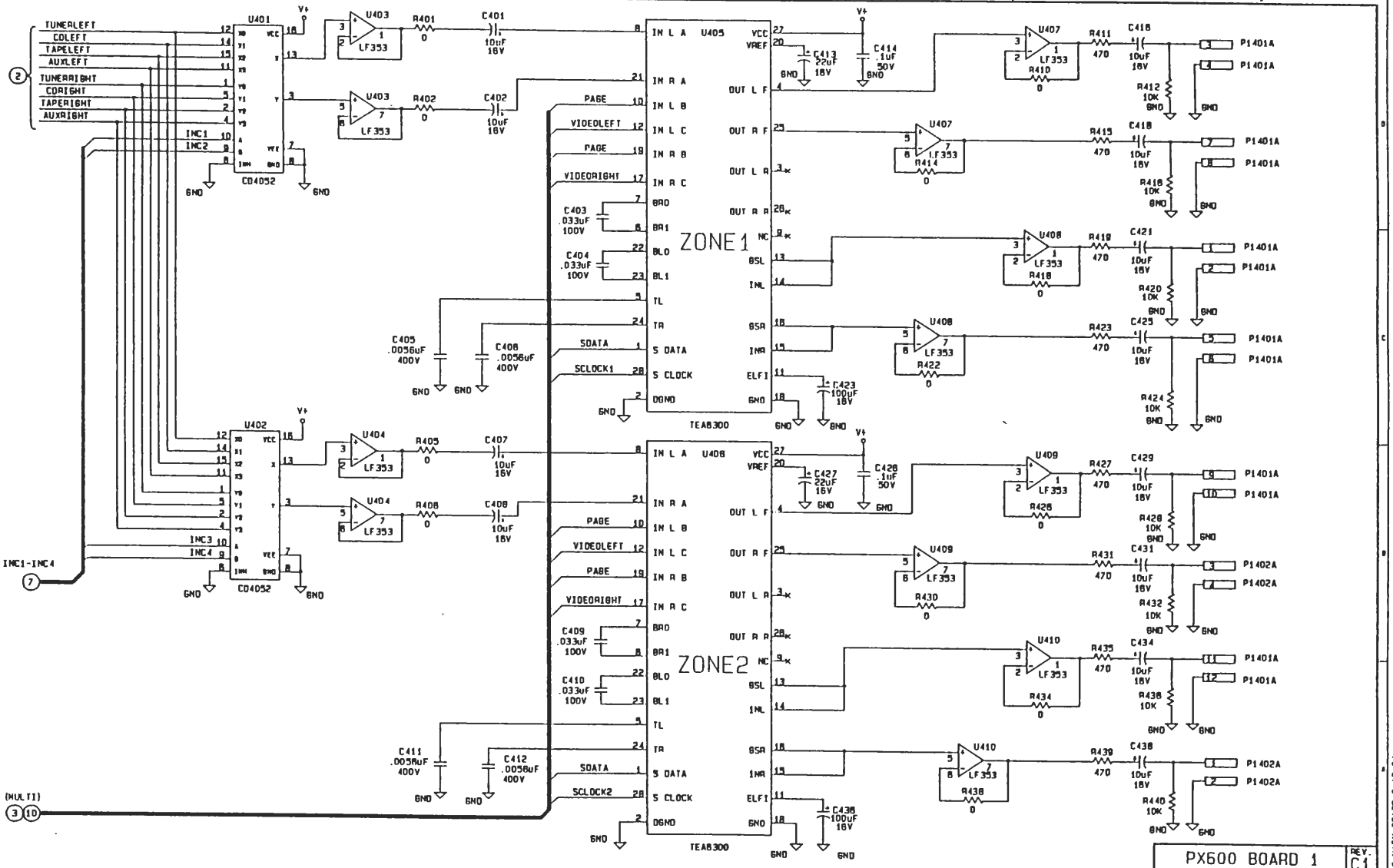
PX600 BOARD 1 | C1

SHEET 3 OF 16

PX600 MAIN BOARD 8-13-94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TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
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INC2
INC3
INC4
INC1-INC4
(MULTI)
U401
U402
CD4052
U403
U404
LF353
R401
R402
R405
R406
C401
C402
C407
C408
10uF 16V
0
GND
V+
U405
U406
TEA6300
ZONE1
ZONE2
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK1
SCLOCK2
C403 .033uF 100V
C404 .033uF 100V
C405 .0056uF 400V
C406 .0056uF 400V
C409 .033uF 100V
C410 .033uF 100V
C411 .0056uF 400V
C412 .0056uF 400V
C413 22uF 16V
C414 .1uF 50V
C423 100uF 16V
C427 22uF 16V
C428 .1uF 50V
C436 100uF 16V
U407
U408
U409
U410
R410
R411
R412 10K
R414
R415
R416 10K
R418
R419
R420 10K
R422
R423
R424 10K
R426
R427
R428 10K
R430
R431
R432 10K
R434
R435
R436 10K
R438
R439
R440 10K
470
C418 10uF 16V
C421 10uF 16V
C425 10uF 16V
C429 10uF 16V
C431 10uF 16V
C434 10uF 16V
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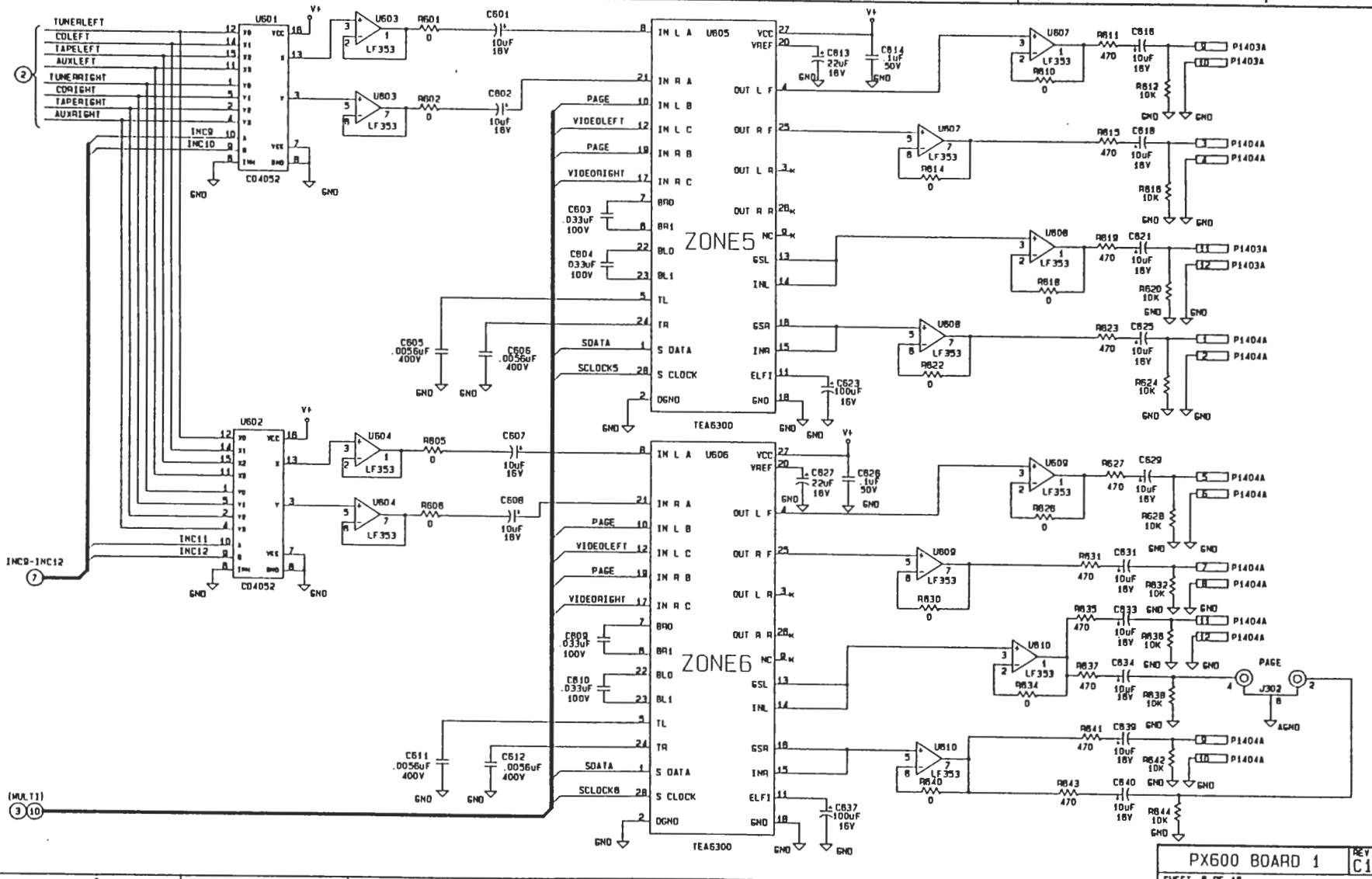
P1402A
PX600 BOARD 1
REV. C1
SHEET 4 OF 16
PX600 MAIN BOARD 8-19-94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AUXRIGHT
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INC12
INC9-INC12
(MULTI)
U601
U602
CD4052
U603
U604
U605
U606
TEA6300
LF353
R601
R602
R603
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R606
C601
C602
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C608
C609
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C611
C612
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK5
SCLOCK6
ZONE5
ZONE6
C613
C614
C623
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C628
C637
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U608
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R644
C616
C618
C621
C625
C629
C631
C633
C634
C639
C640
P1403A
P1404A
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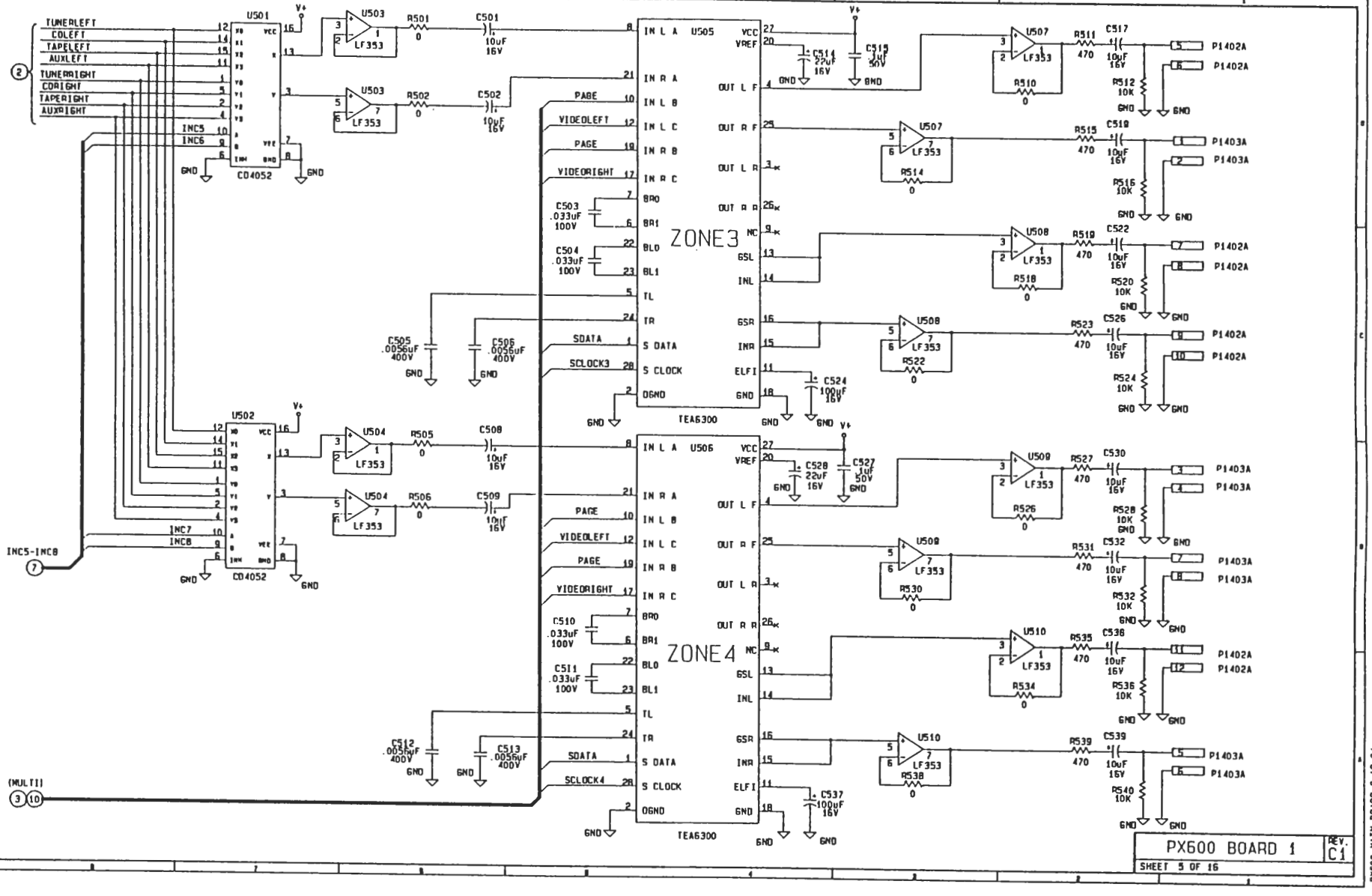
AGND
GND
V+
PX600 BOARD 1
REV. C1
SHEET 8 OF 16
PX600 MAIN BOARD 8-19-94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TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC5
INC6
INC7
INC8
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(MULTI)
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U502
CD4052
U503
U504
LF353
R501
R502
C501
C502
U505
U506
TEA6300
ZONE3
ZONE4
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK3
SCLOCK4
C503 .033uF 100V
C504 .033uF 100V
C505 .0056uF 400V
C506 .0056uF 400V
C510 .033uF 100V
C511 .033uF 100V
C512 .0056uF 400V
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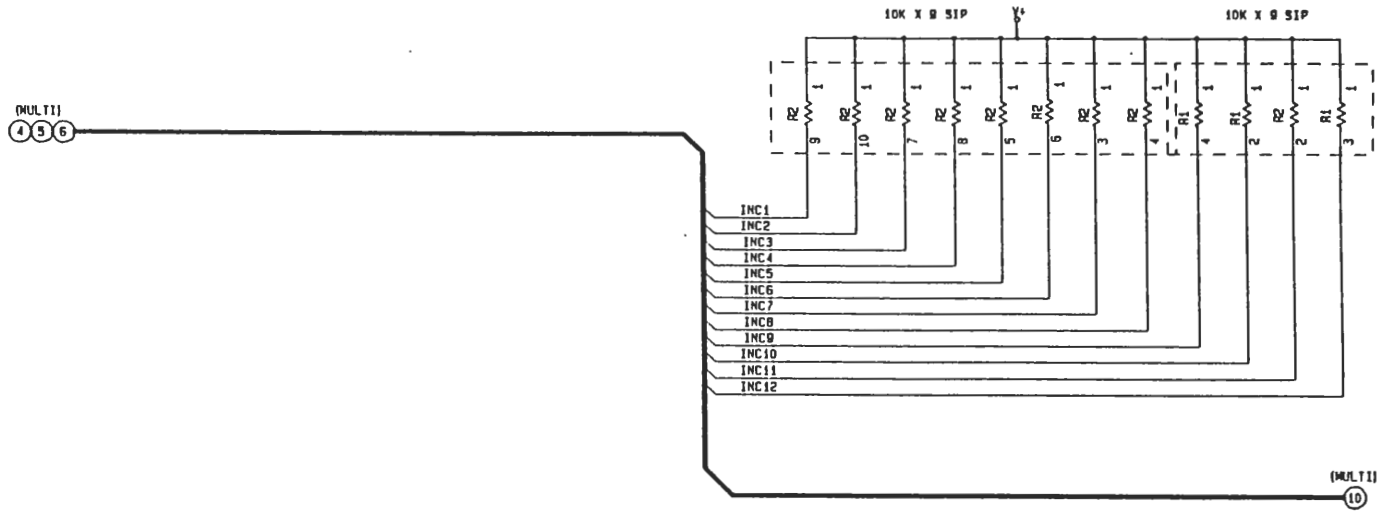
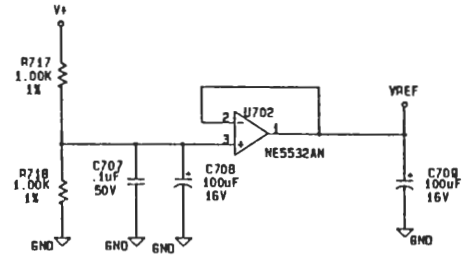
C517
C518
C519
C522
C526
C530
C532
C536
C539
P1402A
P1403A
GND
V+
PX600 BOARD 1
REV. C1
SHEET 5 OF 16
PX600 MAIN BOARD 8-19-94



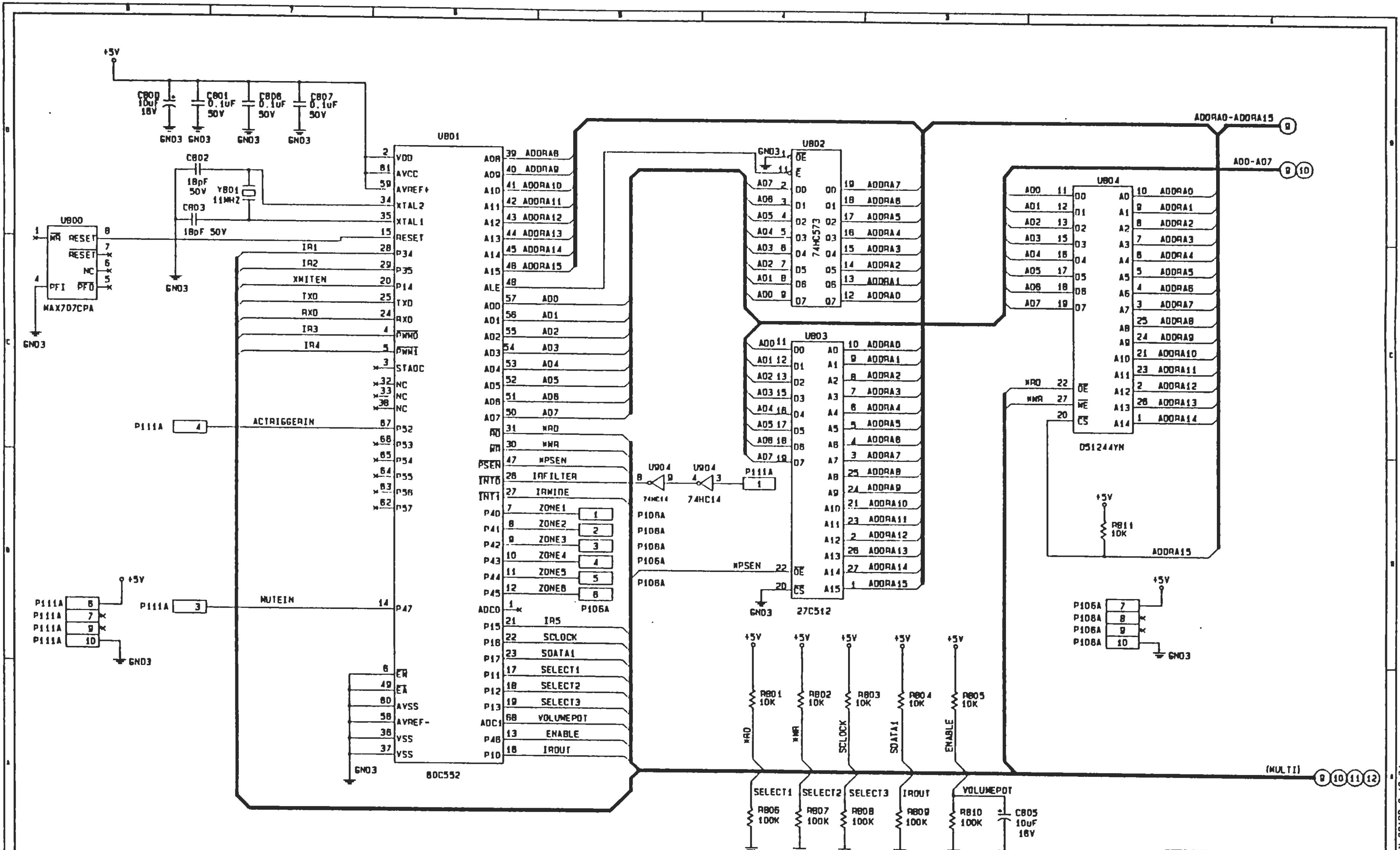


PX600 BOARD 1

REV. C1

SHEET 7 OF 16

PX600 MAIN BOARD 8-19-94

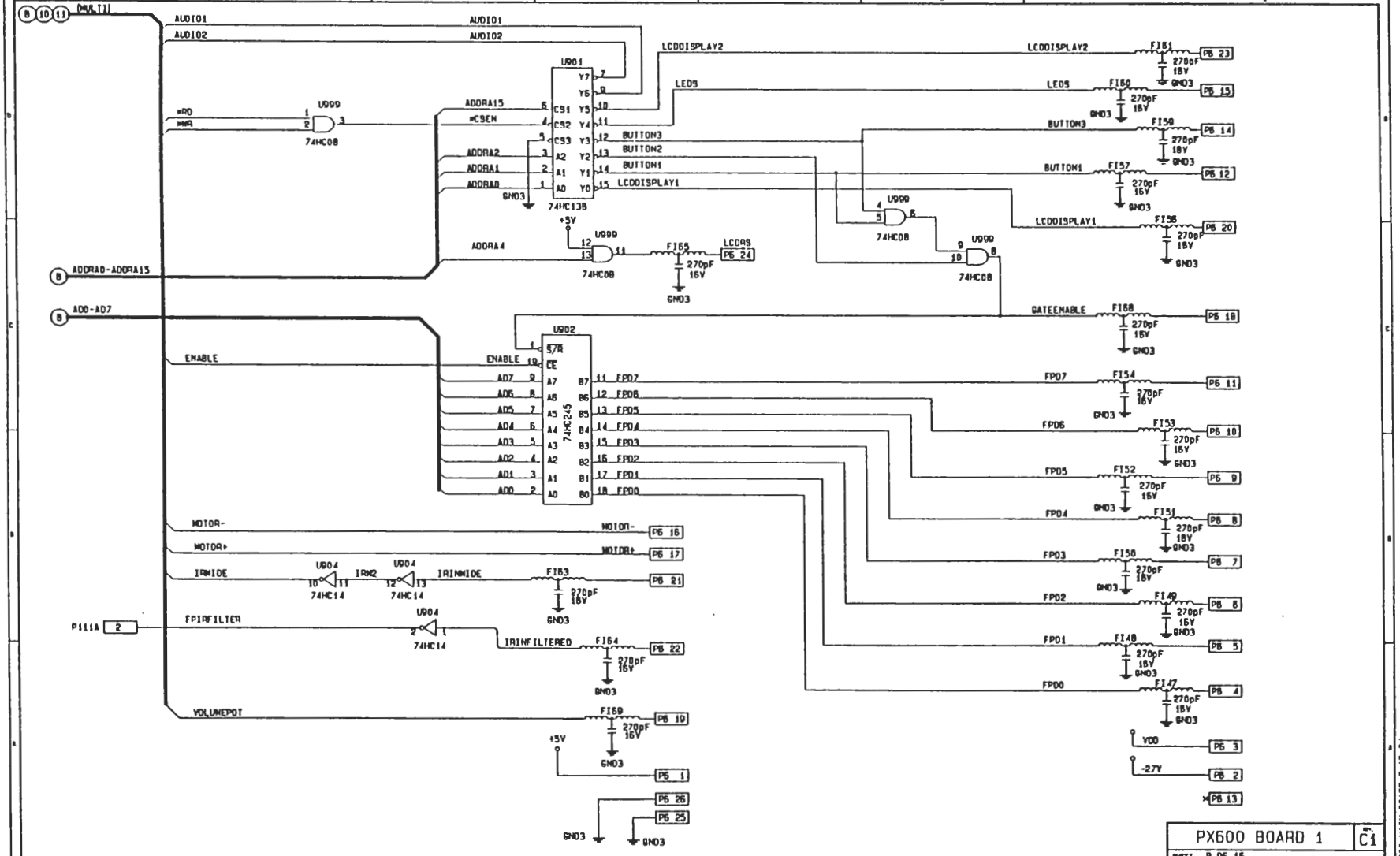


PX600 BOARD 1

SHEET 8 OF 18

C1

PX600 MAIN BOARD 6-19-94


PX600 BOARD 1
C1
SHEET 9 OF 16
PX600 MAIN BOARD 8-19-94
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U903
U904
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74HC245
74HC08
74HC14
AUDIO1
AUDIO2
LCDDISPLAY2
LED9
BUTTON3
BUTTON2
BUTTON1
LCDDISPLAY1
ADDRA15
ADDRA2
ADDRA1
ADDRA0
ADDRA4
ADDRA0-ADDRA15
AD0-AD7
ENABLE
GATEENABLE
FPD7
FPD6
FPD5
FPD4
FPD3
FPD2
FPD1
FPD0
MOTOR-
MOTOR+
IRINSIDE
IRINFILTERED
FPIRFILTER
VOLUMEPOT
VDD
-27V
+5V
GND3
P6 1
P6 2
P6 3
P6 4
P6 5
P6 6
P6 7
P6 8
P6 9
P6 10
P6 11
P6 12
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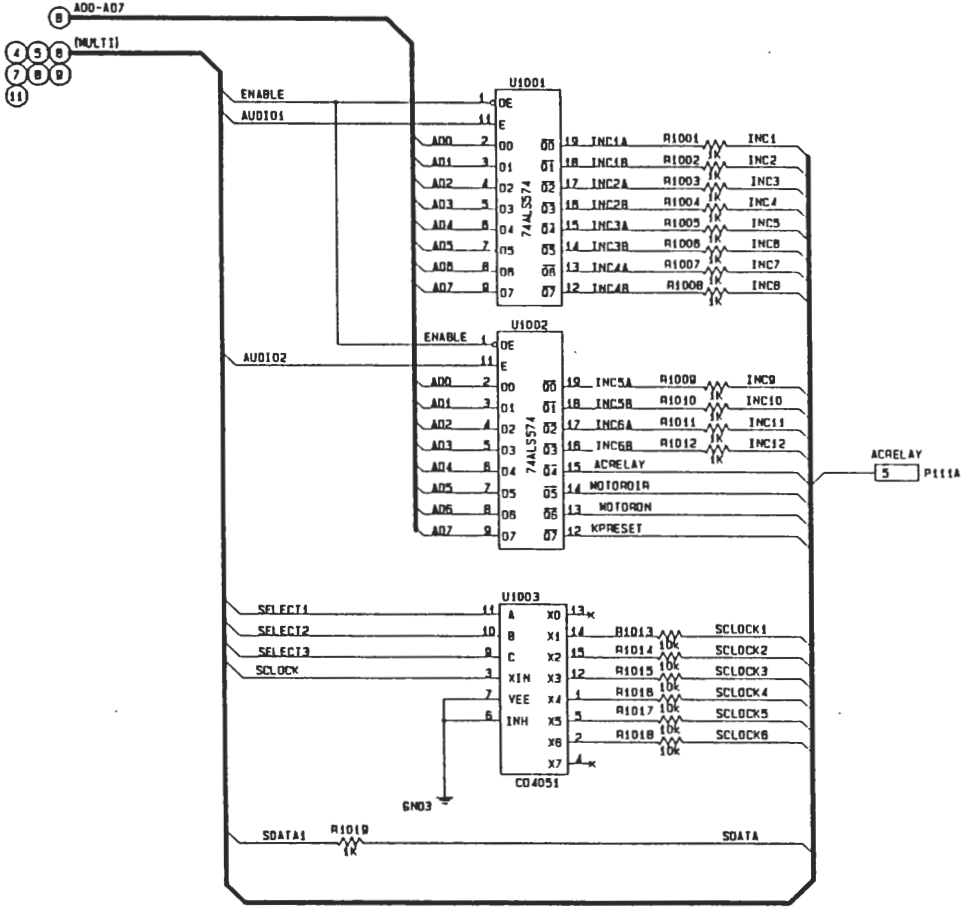
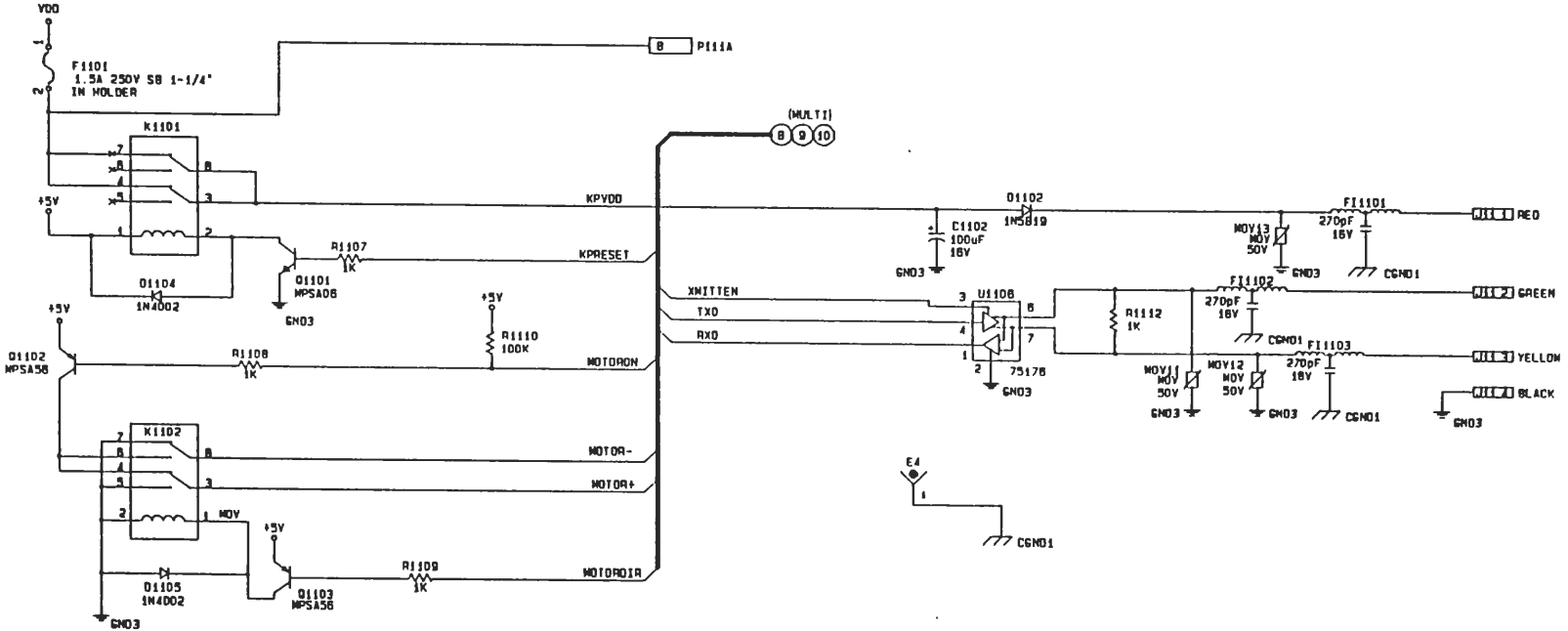


PX600 BOARD 1 | REV. C1

SHEET 10 OF 16

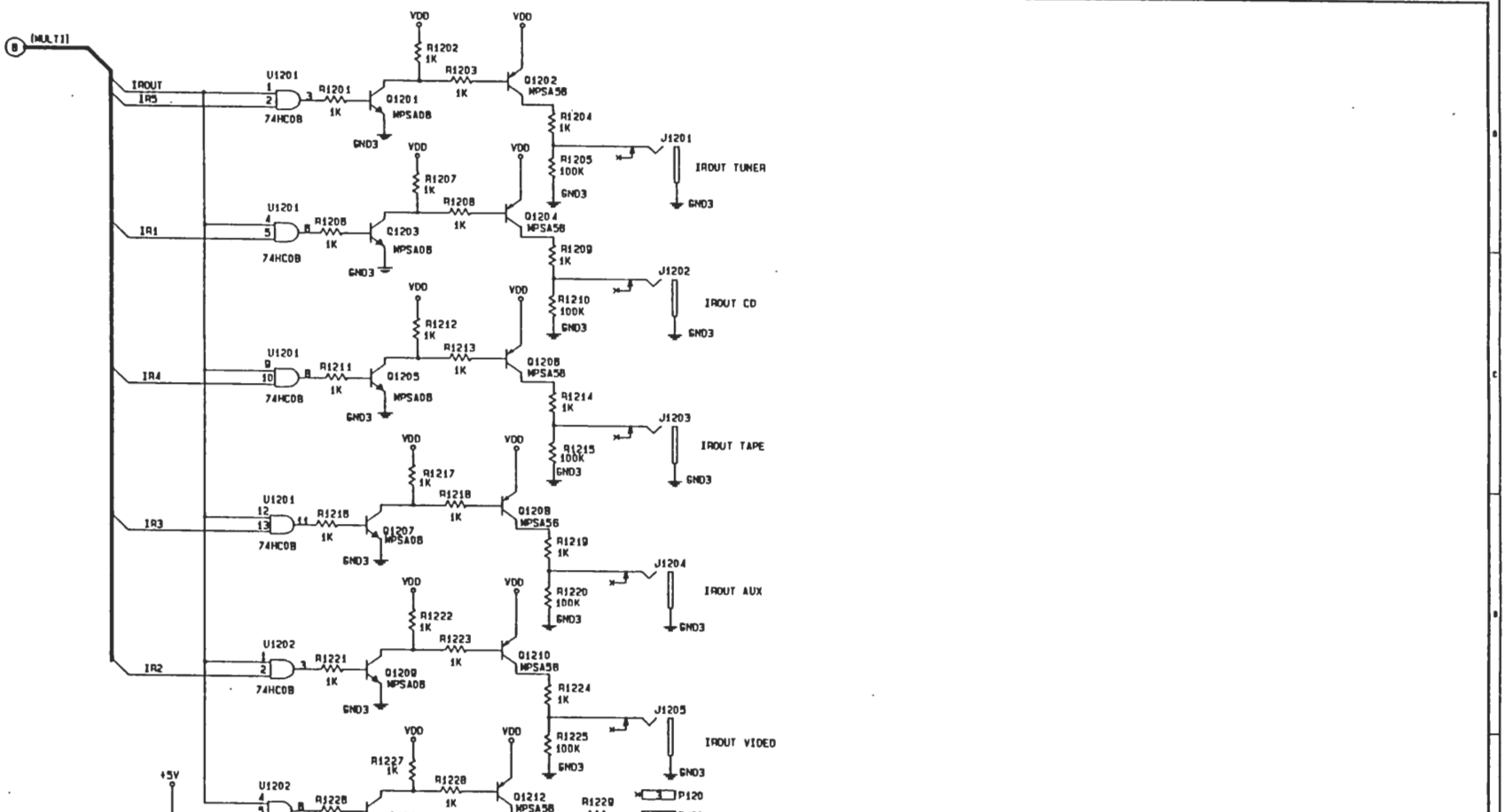
PX600 MAIN BOARD 8-19-94



PX600 BOARD 1 | C1

SHEET 11 OF 18

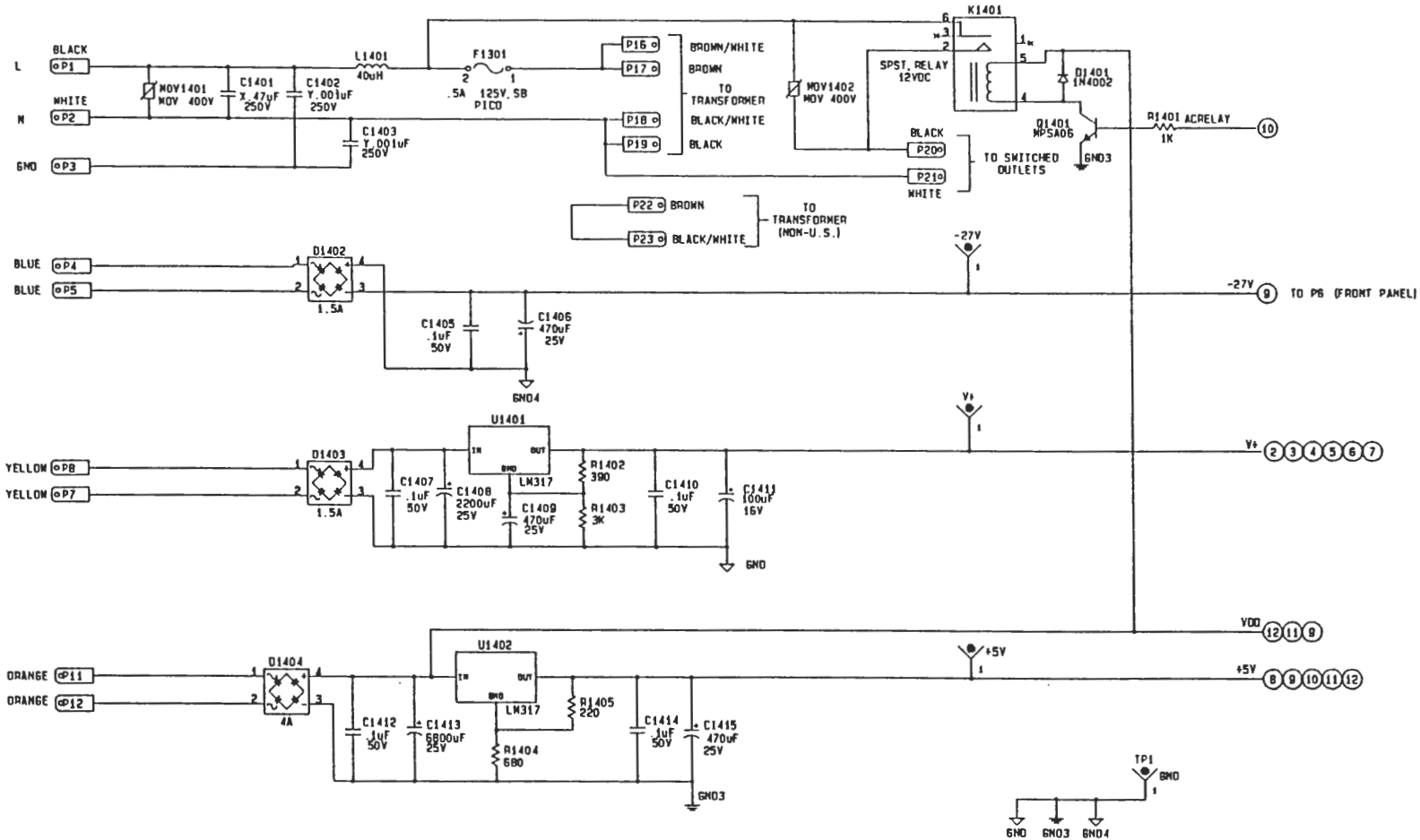
PX600 MAIN BOARD 8-19-94



PX600 BOARD 1

SHEET 12 OF 18

PX600 MAIN BOARD 8-19-94

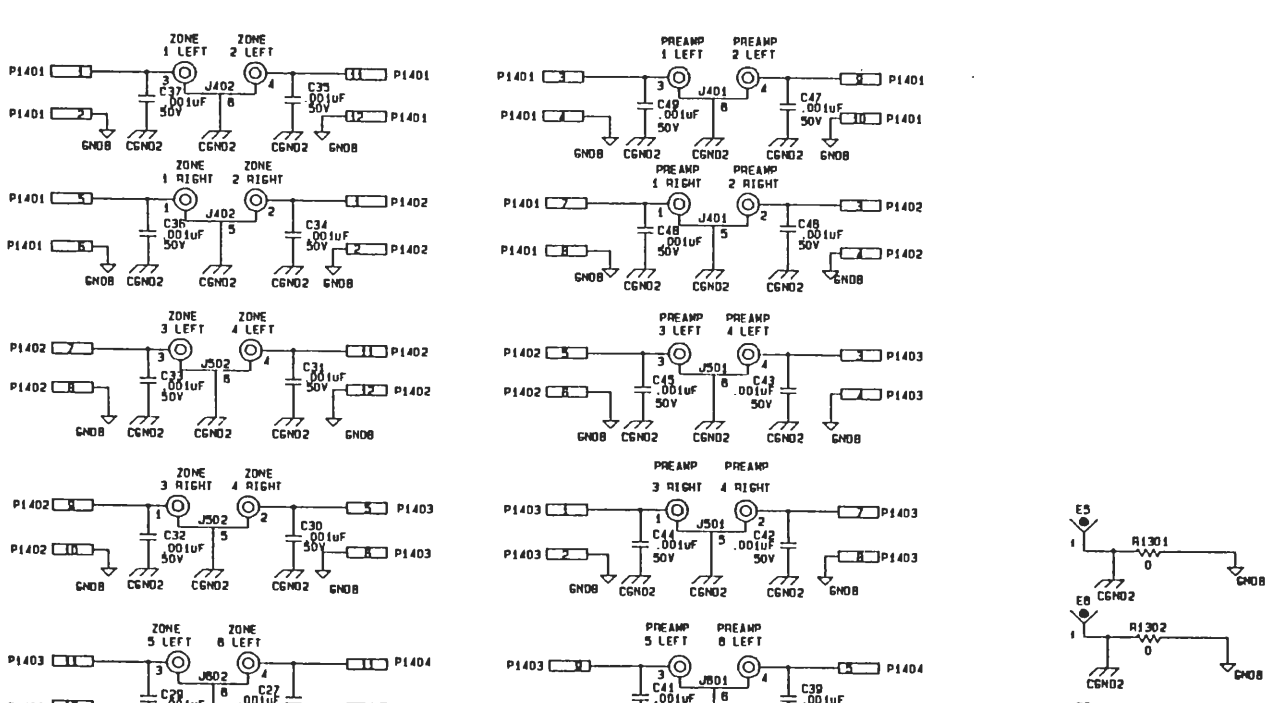


PX600 BOARD 1

REV. C1

SHEET 13 OF 16

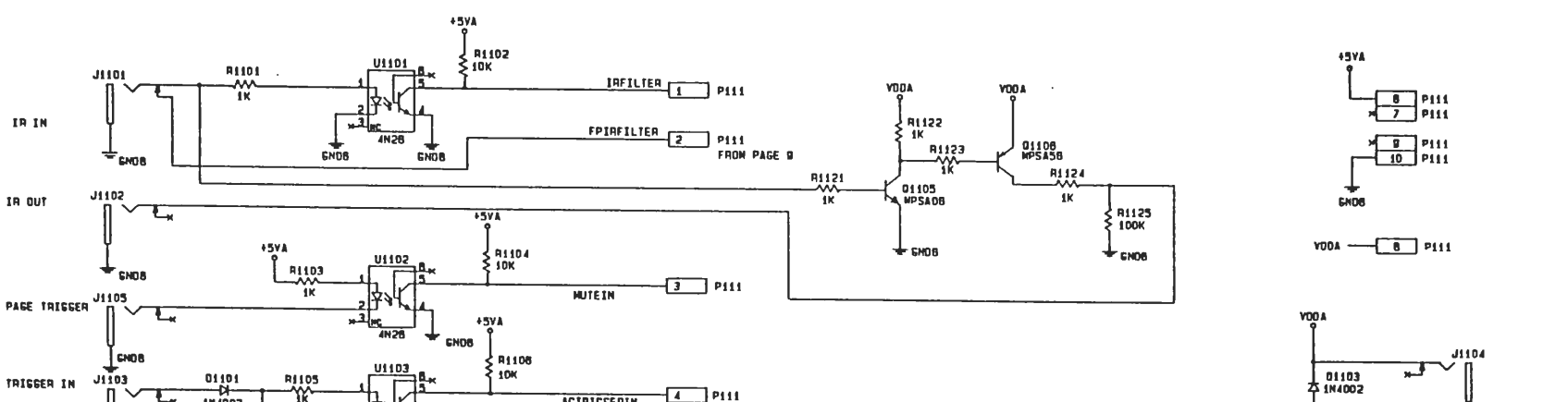
PX600 MAIN BOARD 8-19-94



PX600 BOARD 2 | C1

SHEET 14 of 16

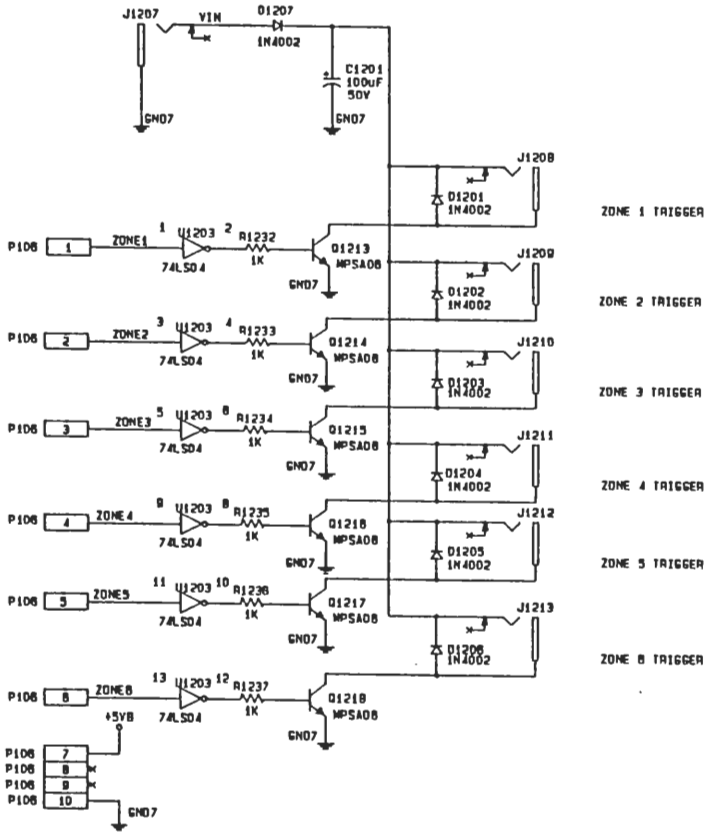
PX600 MAIN BOARD 8-19-94



PX600 BOARD 2 C1

SHEET 15 OF 18

PX600 MAIN BOARD 8-19-94



PX600 BOARD 3 C1

SHEET 16 OF 18

PX600 MAIN BOARD 8-19-94

PX-600

MAIN BOARD

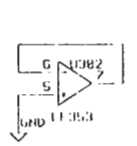
REV D0

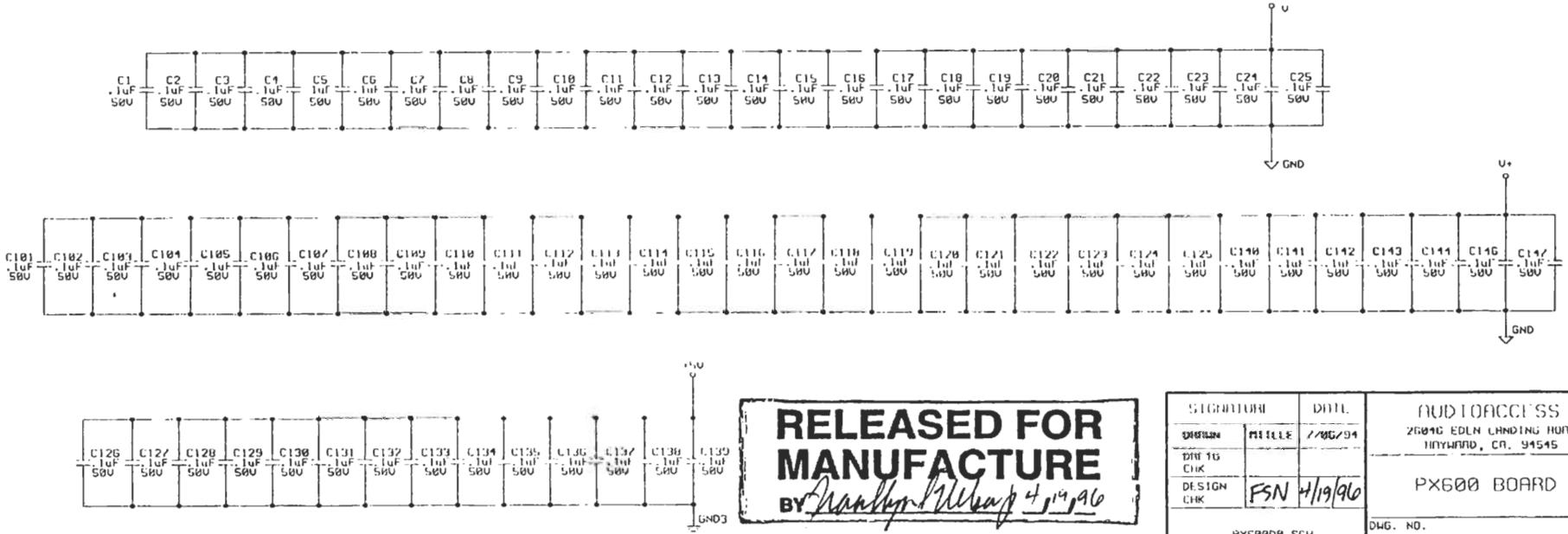
IC CHART

TYPE	VOLTAGE/PIN NO. V+	VOLTAGE/PIN NO. AGND	VOLTAGE/PIN NO. +5V	VOLTAGE/PIN NO. DGND	REFERENCE DESIGNATOR CHART	BYPASS CAP
LF353	8	4	N/A	N/A	U201,U202,U203,U204,U301,U302,U403,	C101-C124
			N/A	N/A	U404,U407,U408,U409,U410,U503,U504,	
			N/A	N/A	U507,U508,U509,U510,U603,U604,U607,	
			N/A	N/A	U608,U609,U610	
NE5532AN	8	4	N/A	N/A	U701,U702	C125,C147
CD4052	SHOWN ON SCH		N/A	N/A	U401,U402,U501,U502,U601,U602	C140-C146
TEA6300	SHOWN ON SCH		N/A	N/A	U405,U406,U505,U506,U605,U606	SHOWN ON SCH
80C652	N/A	N/A	N/A	N/A	U001	SHOWN ON SCH
74HC573	N/A	N/A	20	10	U002	C126
MAX707CPA	N/A	N/A	2	3	U000	C127
27C512	N/A	N/A	28	14	U003	C128
DS1244YM-200	N/A	N/A	28	14	U004	C129
74HC138	N/A	N/A	16	8	U901	C130
74HC245	N/A	N/A	20	10	U902	C131
74HC08	N/A	N/A	14	7	U201,U1201,U1202	C132-C134
74HC14	N/A	N/A	14	7	U904	C135
74LS574	N/A	N/A	20	10	U1001,U1002	C136,C137
CD4051	N/A	N/A	16	8	U1003	C138
74LS04	N/A	N/A	+5V8 14	GND7 7	U1203	C139
75176	N/A	N/A	8	5	U1106	

NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/8W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.





RELEASED FOR MANUFACTURE
BY 4/19/96

SIGNATURE		DATE
DRAWN	MELLE	7/06/94
DRG TG CHK		
DESIGN CHK	FSN	4/19/96

PX600D0.SCH

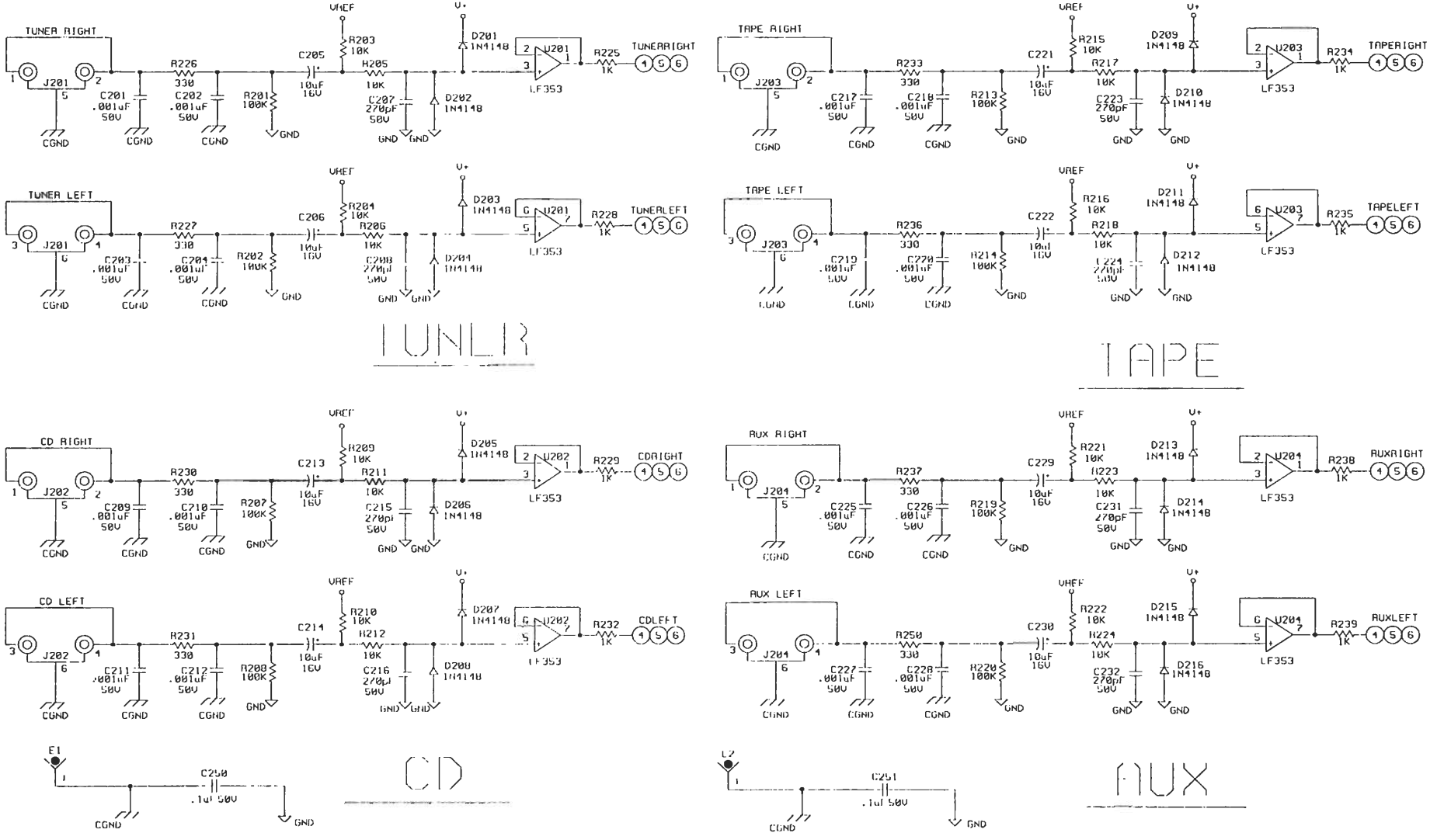
AUDIOACCESS
2600 EDEN LANDING ROAD
HAYWARD, CA. 94545

PX600 BOARD 1

DWG. NO. | REV. D0

SHEET 1 OF 16

PX600 MAIN BOARD 4-19-96 12:00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C201 .001uF 50V
C202 .001uF 50V
R226 330
R201 100K
C205 10uF 16V
R203 10K
R205 10K
C207 270pF 50V
D201 1N4148
D202 1N4148
U201
LF353
R225 1K
TUNERRIGHT
TUNER LEFT
J201
C203 .001uF 50V
C204 .001uF 50V
R227 330
R202 100K
C206 10uF 16V
R204 10K
R206 10K
C208 270pF 50V
D203 1N4148
D204 1N4148
U201
LF353
R228 1K
TUNERLEFT
TUNER
TAPE RIGHT
J203
C217 .001uF 50V
C218 .001uF 50V
R233 330
R213 100K
C221 10uF 16V
R215 10K
R217 10K
C223 270pF 50V
D209 1N4148
D210 1N4148
U203
LF353
R234 1K
TAPERIGHT
TAPE LEFT
J203
C219 .001uF 50V
C220 .001uF 50V
R236 330
R214 100K
C222 10uF 16V
R216 10K
R218 10K
C224 270pF 50V
D211 1N4148
D212 1N4148
U203
LF353
R235 1K
TAPELEFT
TAPE
CD RIGHT
J202
C209 .001uF 50V
C210 .001uF 50V
R230 330
R207 100K
C213 10uF 16V
R209 10K
R211 10K
C215 270pF 50V
D205 1N4148
D206 1N4148
U202
LF353
R229 1K
CDRIGHT
CD LEFT
J202
C211 .001uF 50V
C212 .001uF 50V
R231 330
R208 100K
C214 10uF 16V
R210 10K
R212 10K
C216 270pF 50V
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D208 1N4148
U202
LF353
R232 1K
CDLEFT
CD
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AUX RIGHT
J204
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C226 .001uF 50V
R237 330
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R221 10K
R223 10K
C231 270pF 50V
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U204
LF353
R238 1K
AUXRIGHT
AUX LEFT
J204
C227 .001uF 50V
C228 .001uF 50V
R250 330
R220 100K
C230 10uF 16V
R222 10K
R224 10K
C232 270pF 50V
D215 1N4148
D216 1N4148
U204
LF353
R239 1K
AUXLEFT
AUX
E2
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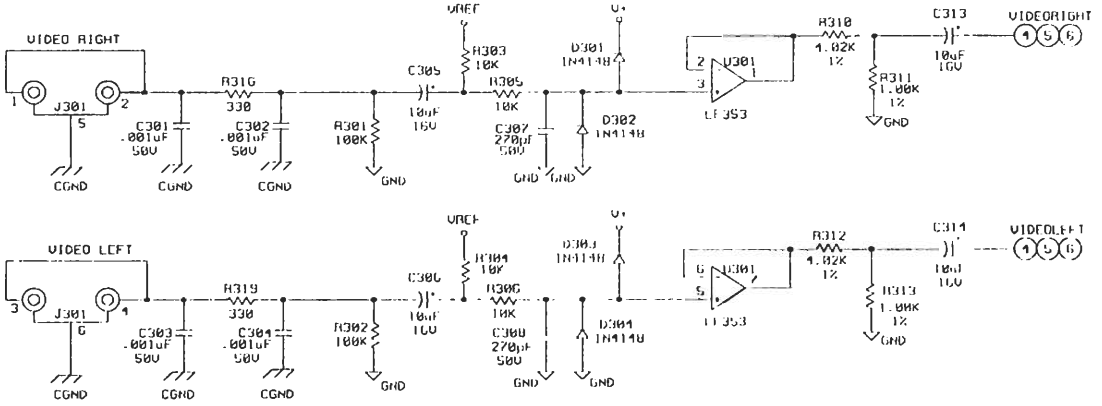
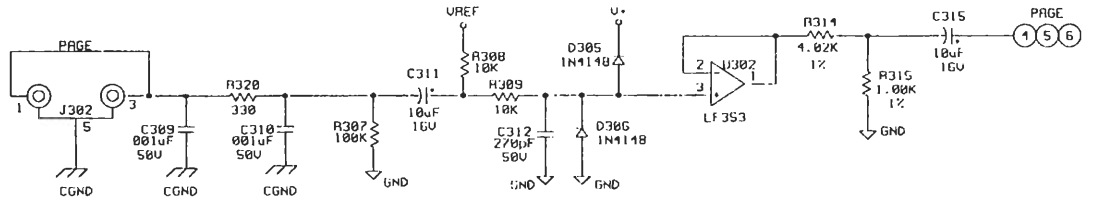
CGND
GND
PX600 BOARD 1
REV. D0
SHEET 2 OF 16
PX600 MAIN BOARD 4-19-96 12:00



VIDEO



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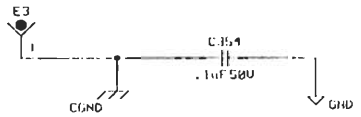
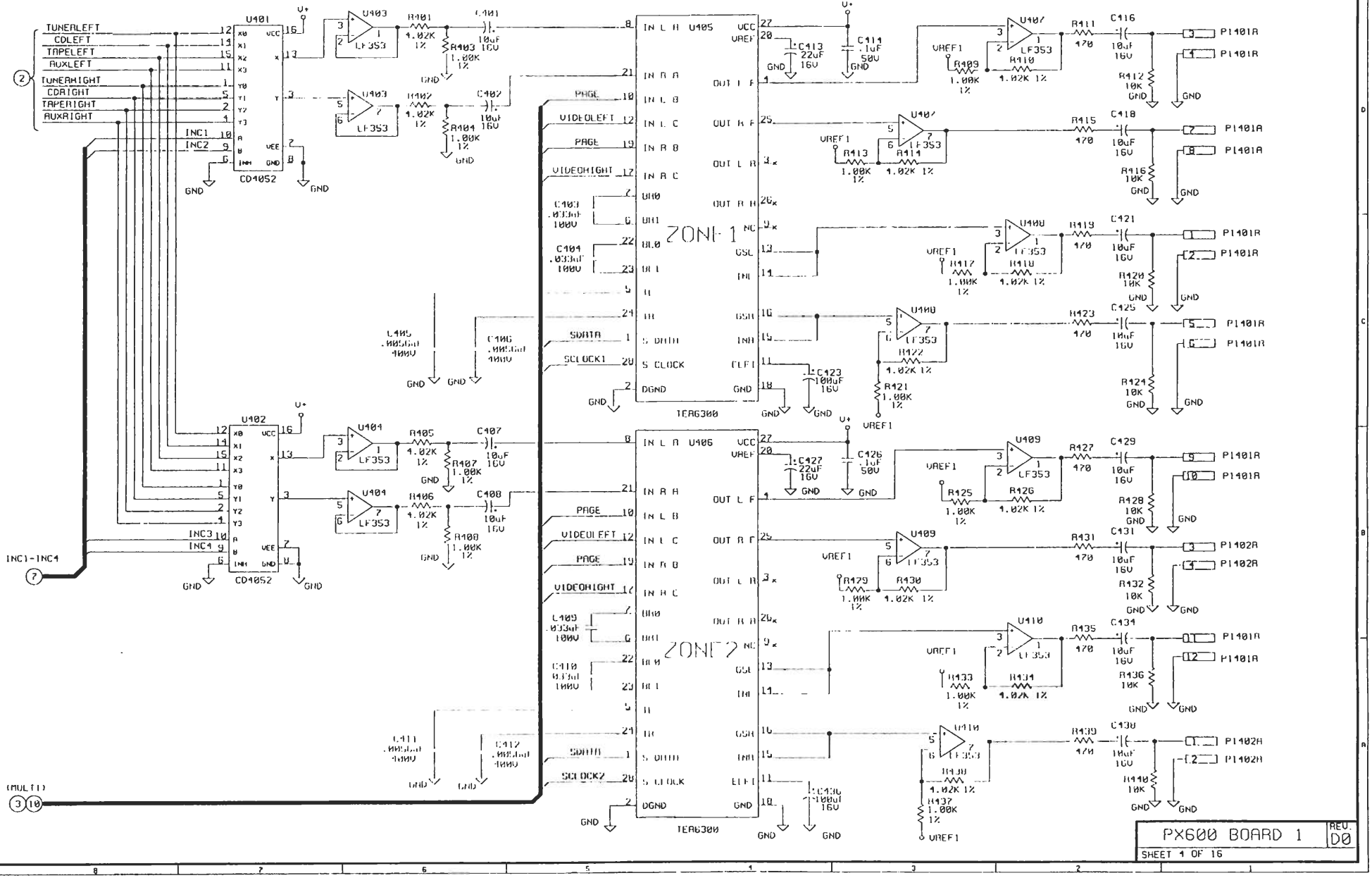


PX600 BOARD 1 | REV. D0

SHEET 3 OF 16

PX600 MAIN BOARD 4-15-96 12:00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CDLEFT
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AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC1
INC2
INC3
INC4
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U402
CD4052
U403
U404
U405
U406
U407
U408
U409
U410
LF353
TEA6300
ZONE 1
ZONE 2
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK1
SCLOCK2
VREF1
GND
P1401A
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REV. D0
SHEET 1 OF 16
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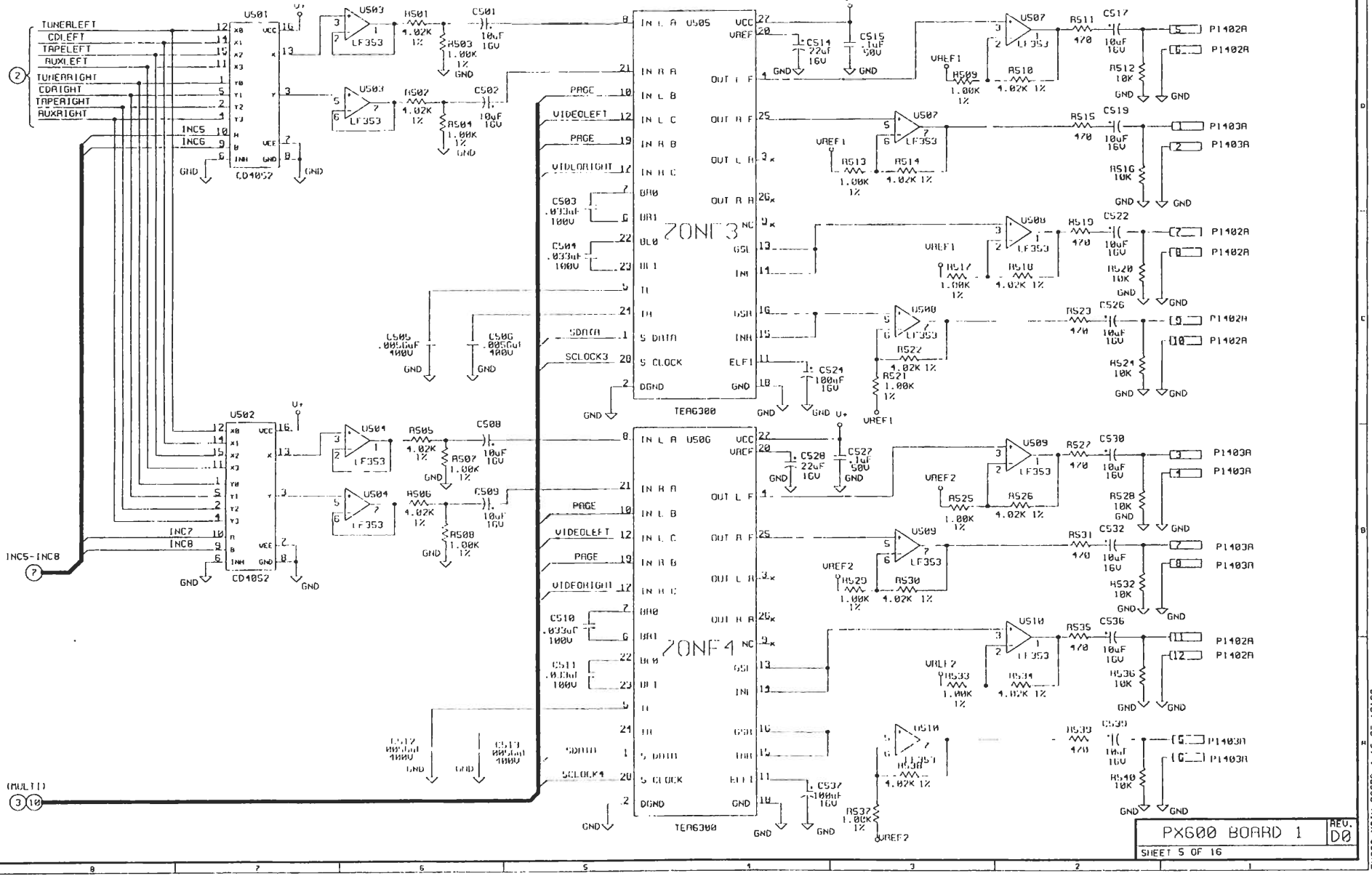
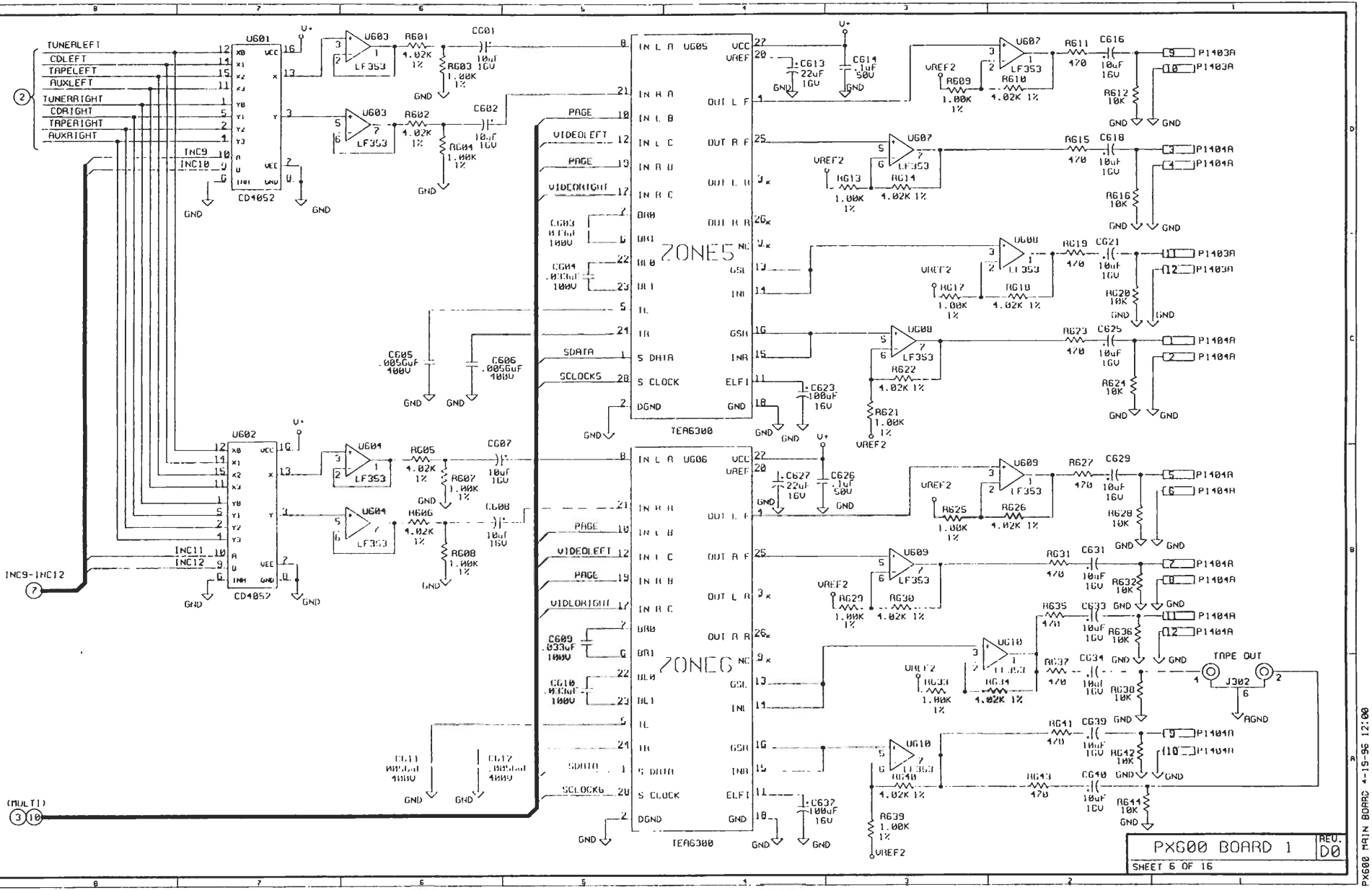


PX600 BOARD 1

REV. D0

SHEET 5 OF 16

PX600 MAIN BOARD 4-15-96 12:00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INC10
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LF353
R601
4.02K 1%
R603 1.00K 1%
C601 10uF 16V
R602
4.02K 1%
R604 1.00K 1%
C602 10uF 16V
GND
V+
PAGE
VIDEOLEFT
PAGE
VIDEORIGHT
C603 .0056uF 100V
C604 .0056uF 100V
C605 .0056uF 100V
C606 .0056uF 100V
SDATA
SCLOCK5
DGND
TEA6300
ZONE5
IN L A
IN R A
IN L B
IN L C
IN R B
IN R C
BR0
BR1
BL0
BL1
IL
IR
S DATA
S CLOCK
VCC
VREF
OUT L F
OUT R F
OUT L R
OUT R R
NC
GSL
INL
GSR
INR
ELFI
C613 22uF 16V
C614 .1uF 50V
C623 100uF 16V
U607
U608
R609 1.00K 1%
R610 4.02K 1%
R611 470
C616 10uF 16V
R612 10K
R613 1.00K 1%
R614 4.02K 1%
R615 470
C618 10uF 16V
R616 10K
R617 1.00K 1%
R618 4.02K 1%
R619 470
C621 10uF 16V
R620 10K
R621 1.00K 1%
R622 4.02K 1%
R623 470
C625 10uF 16V
R624 10K
VREF2
P1404A
U602
U604
R605 4.02K 1%
R607 1.00K 1%
C607 10uF 16V
R606 4.02K 1%
R608 1.00K 1%
C608 10uF 16V
INC11
INC12
INC9-INC12
C609 .033uF 100V
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SCLOCK6
TEA6300
ZONE6
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C626 1uF 50V
C637 100uF 16V
U609
U610
R627 470
C629 10uF 16V
R628 10K
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R631 470
C631 10uF 16V
R632 10K
R633 1.00K 1%
R634 4.02K 1%
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R636 10K
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R640 4.02K 1%
R641 470
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R642 10K
R643 470
C640 10uF 16V
R644 10K
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AGND
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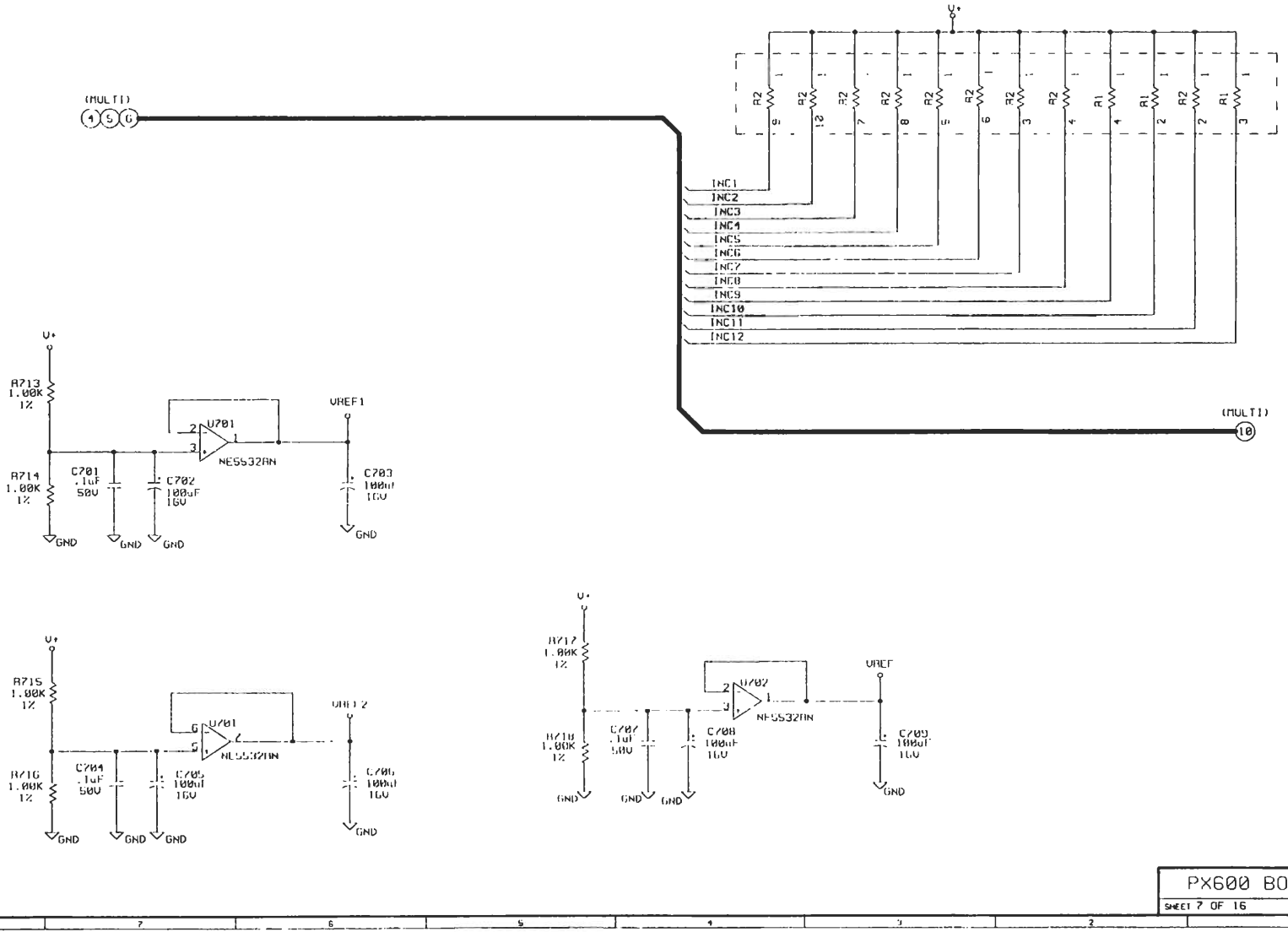
PX600 BOARD 1
REV. D0
SHEET 6 OF 16
PX600 MAIN BOARD 4-19-96 12:00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6
V+
R2
R1
INC1
INC2
INC3
INC4
INC5
INC6
INC7
INC8
INC9
INC10
INC11
INC12
(MULTI)
10
R713
1.00K
1%
R714
1.00K
1%
U701
NE5532AN
VREF1
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50V
C702
100uF
16V
C703
100uF
16V
GND
R715
1.00K
1%
R716
1.00K
1%
C704
.1uF
50V
C705
100uF
16V
C706
100uF
16V
VREF2
R717
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1%
R718
1.00K
1%
U702
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50V
C708
100uF
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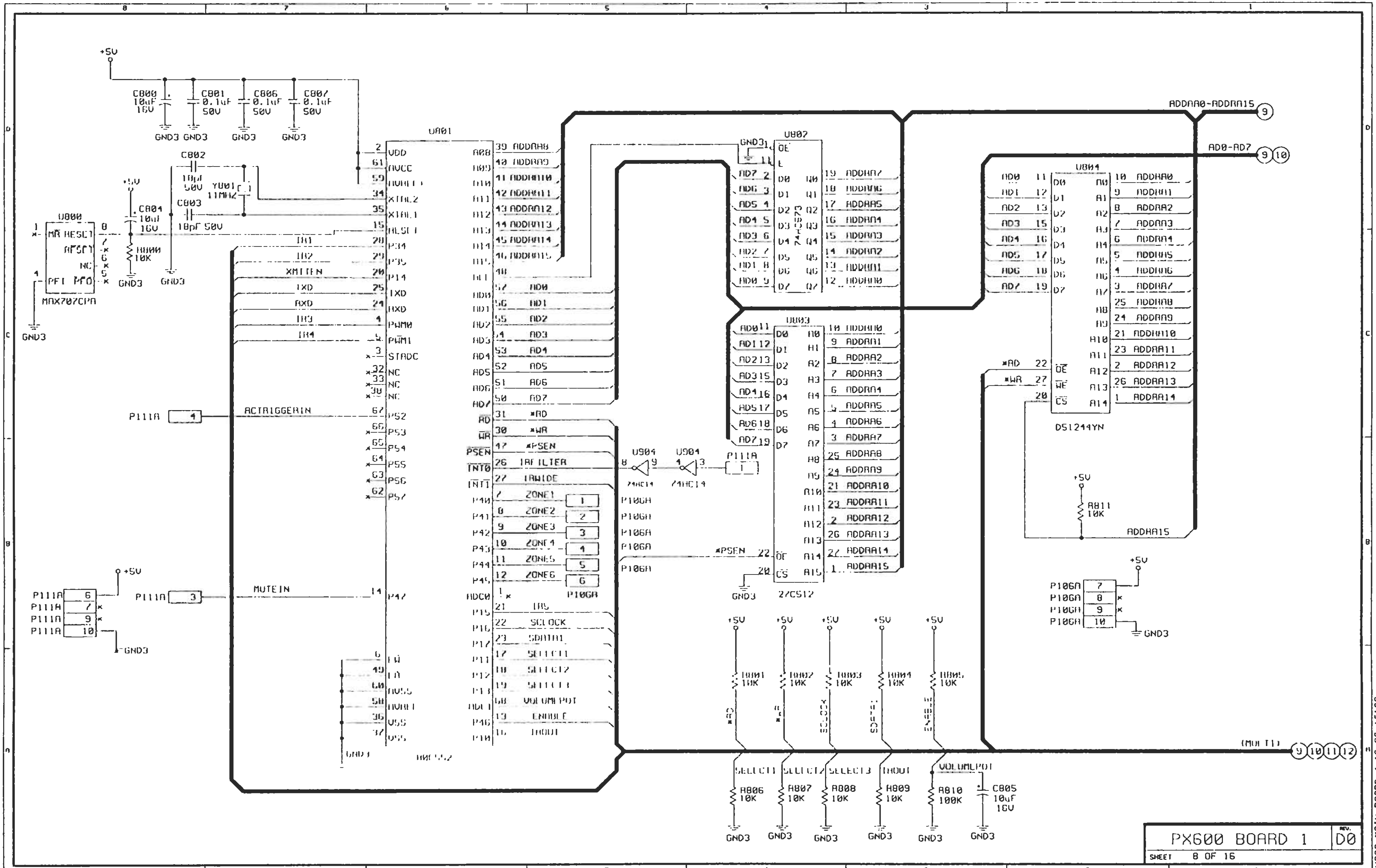
PX600 BOARD 1
REV.
D0
SHEET 7 OF 16
PX600 MAIN BOARD 4-15-96 12:00


+5V
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C801 0.1uF 50V
C806 0.1uF 50V
C807 0.1uF 50V
GND3
C802 18pF 50V
C803 18pF 50V
Y801 11MHZ
C804 10uF 16V
R800 10K
U800
MR RESET
PFI PFO
MAX707CPA
U801
VDD
AVCC
XTAL2
XTAL1
RESET
TXD
RXD
PWM0
PWM1
STADC
NC
PS2
PS3
PS4
PS5
PS6
PS7
P47
EA
AVSS
VSS
ACTRIGGERIN
MUTEIN
XMITEN
TXD
RXD
IR1
IR2
IR3
IR4
P111A
*RD
*WR
*PSEN
IRFILTER
IRWIDE
ZONE1
ZONE2
ZONE3
ZONE4
ZONE5
ZONE6
P106A
IR5
SCLOCK
SDATA1
SELECT1
SELECT2
SELECT3
VOLUMEPOT
ENABLE
IROUT
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ADDRA9
ADDRA10
ADDRA11
ADDRA12
ADDRA13
ADDRA14
ADDRA15
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
U802
74HC573
OE
D0 D1 D2 D3 D4 D5 D6 D7
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
ADDRA0
ADDRA1
ADDRA2
ADDRA3
ADDRA4
ADDRA5
ADDRA6
ADDRA7
U803
27C512
CS
U804
DS1244YN
WE
U904
74HC14
ADDRA0-ADDRA15
AD0-AD7
(MULTI)
R811 10K
R801 10K
R802 10K
R803 10K
R804 10K
R805 10K
R806 10K
R807 10K
R808 10K
R809 10K
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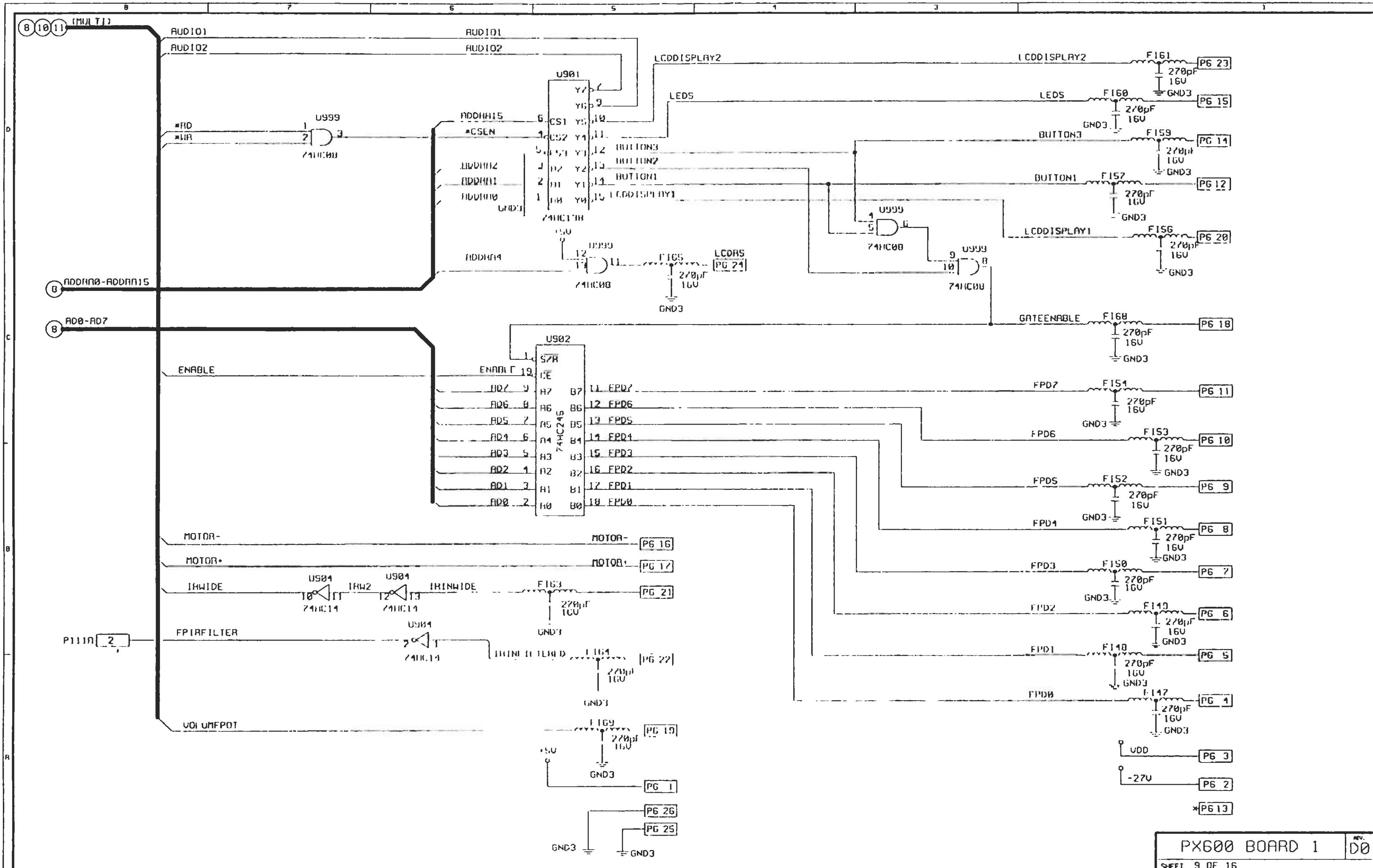
C805 10uF 16V
PX600 BOARD 1
REV.
D0
SHEET 8 OF 16
PX600 MAIN BOARD 4-19-96 12:00

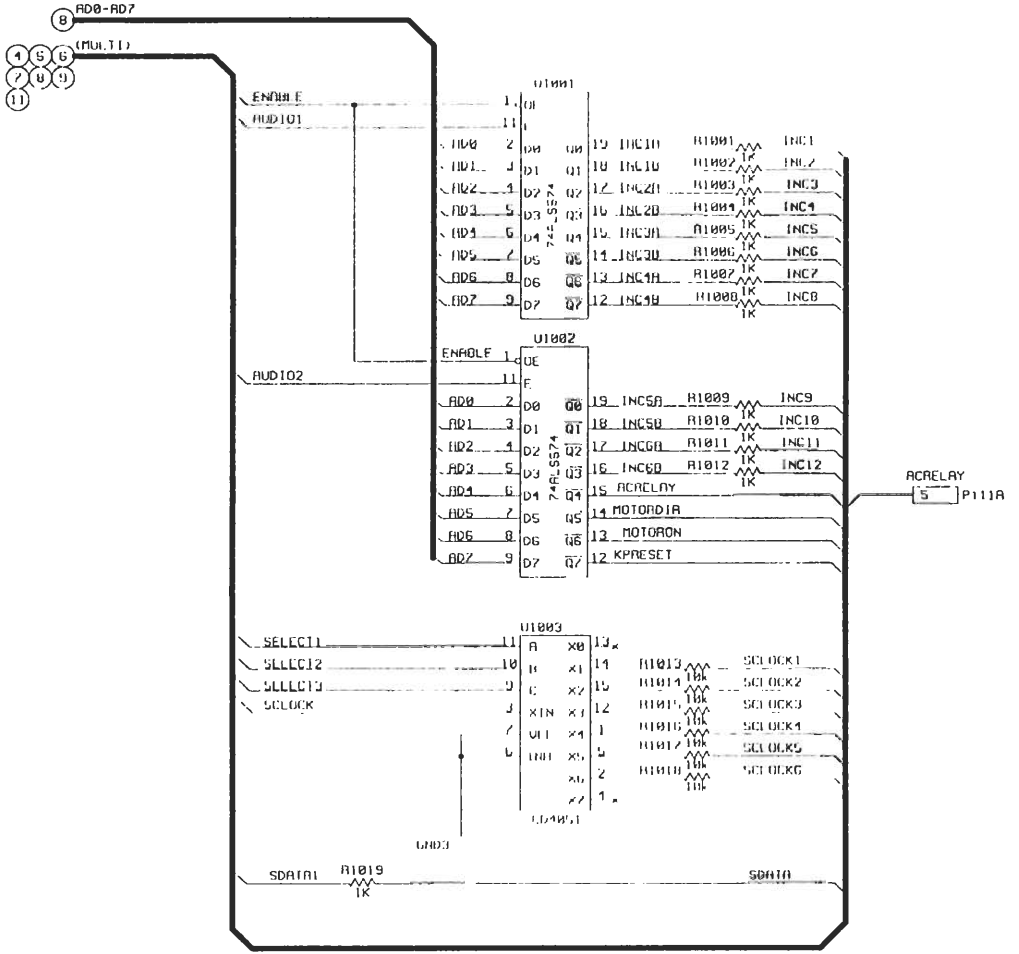


PX600 BOARD 1

REV. D0

SHEET 9 OF 16

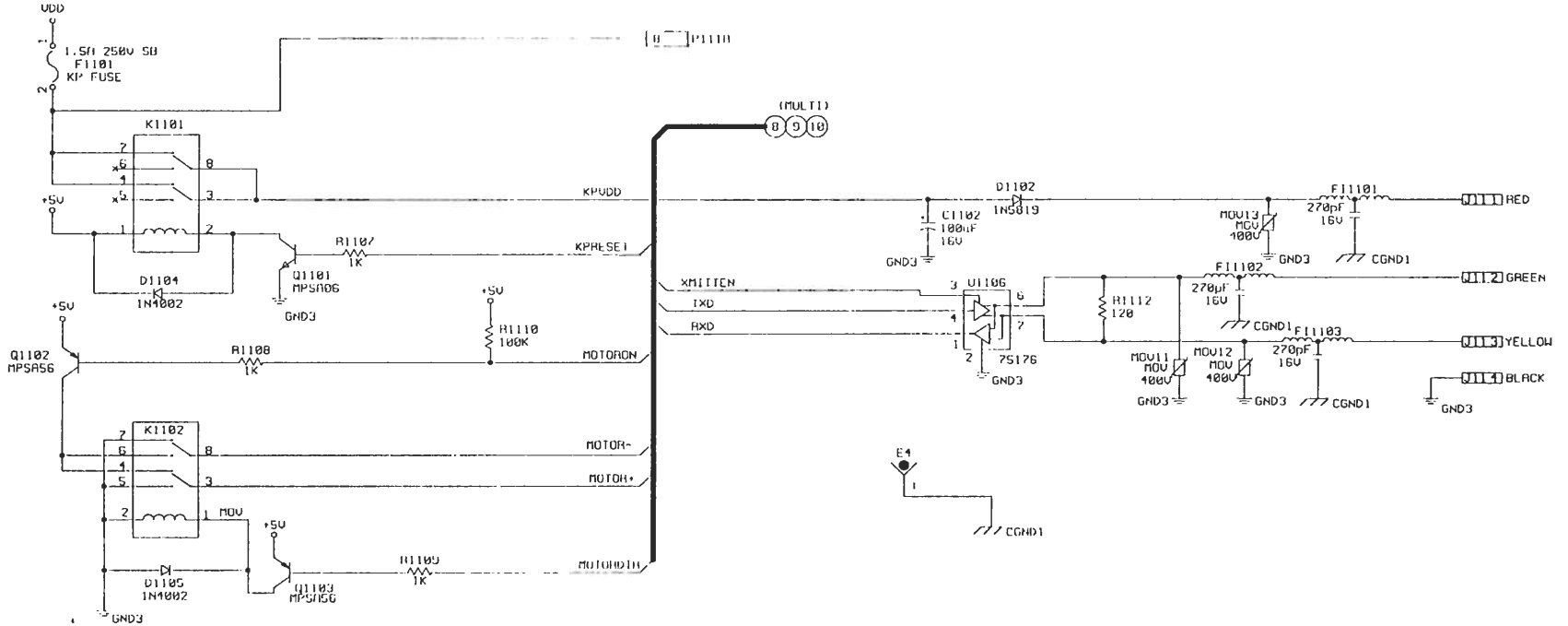
PX600 MAIN BOARD 4-19-96 12:00



PX600 BOARD 1 | REV. D0

SHEET 10 OF 16

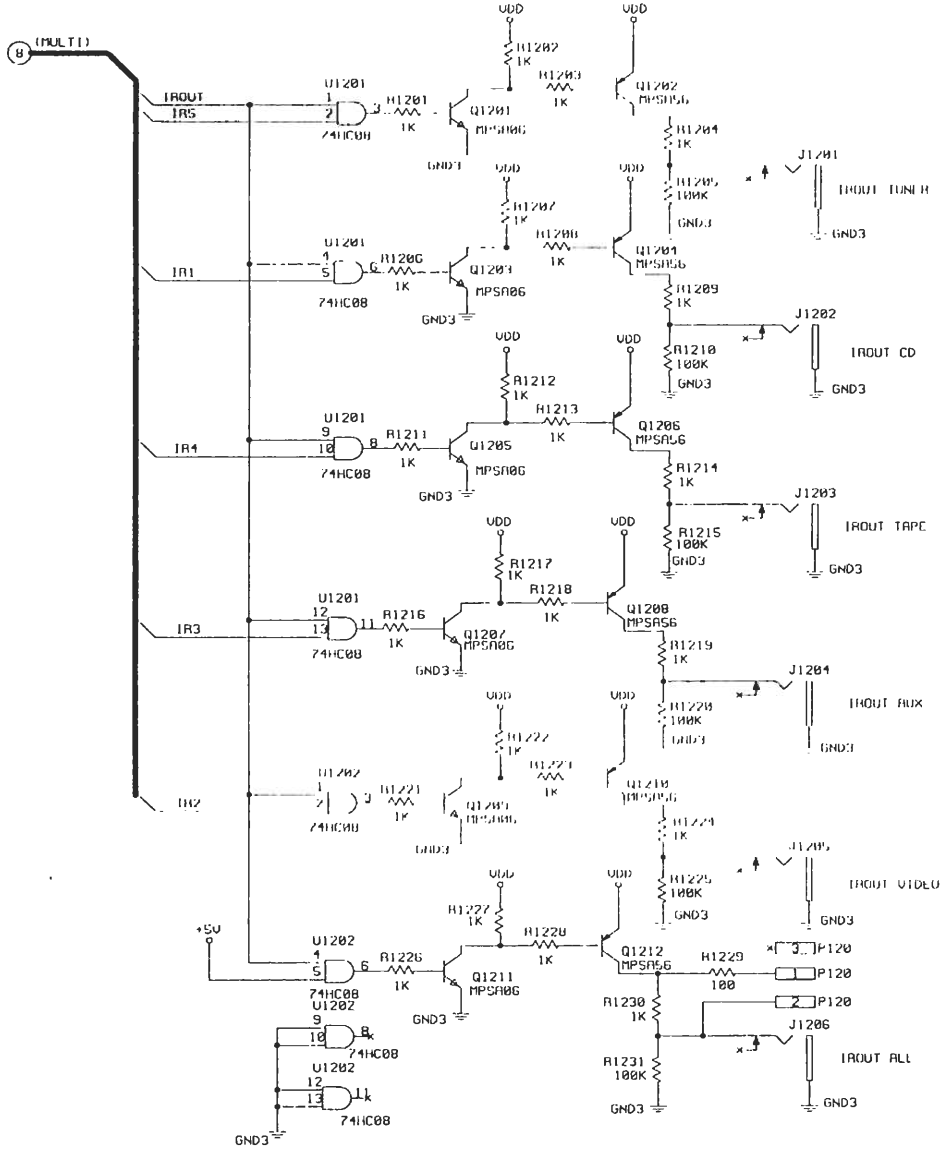
PX600 MAIN BOARD 4-19-96 12:00



PX600 BOARD 1 | REV. D0

SHEET 11 OF 16

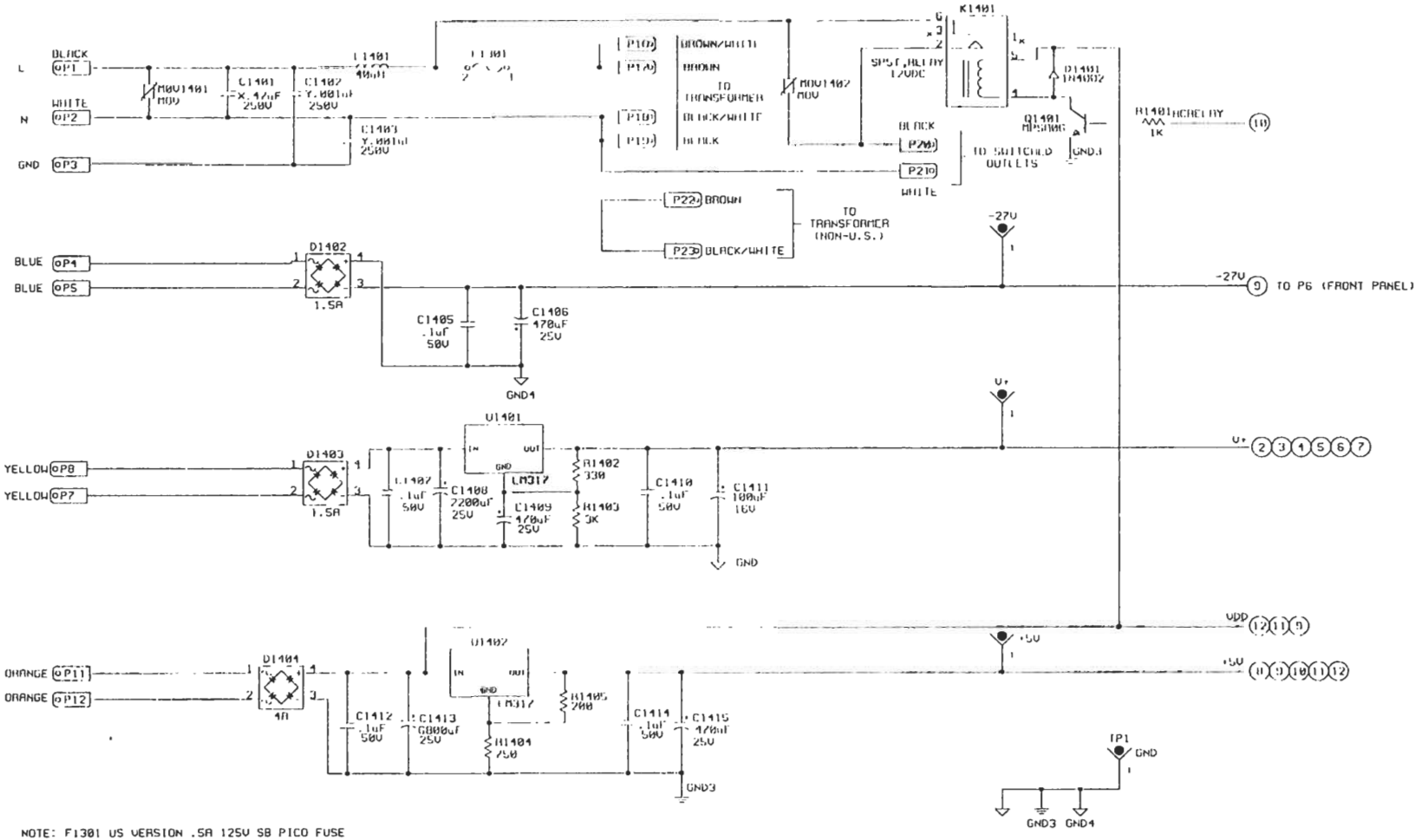
PX600 MAIN BOARD 4-19-96 12:00



PX600 BOARD 1 | REV. D0

SHEET 12 OF 16

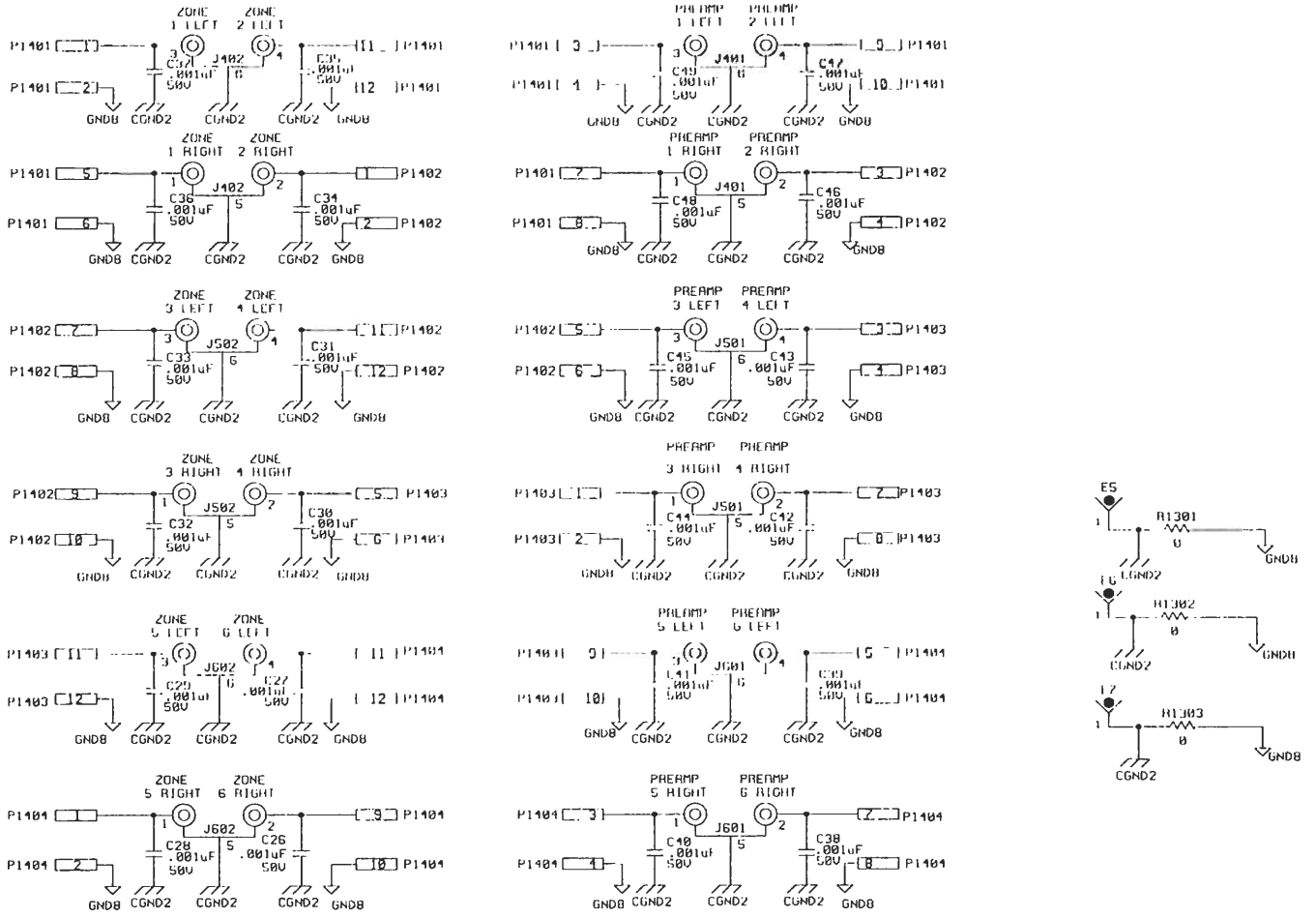
PX600 MAIN BOARD 4-19-96 12:00



NOTE: F1301 US VERSION .5A 125V SB PICO FUSE
F1301 NON-US VERSION JUMPER

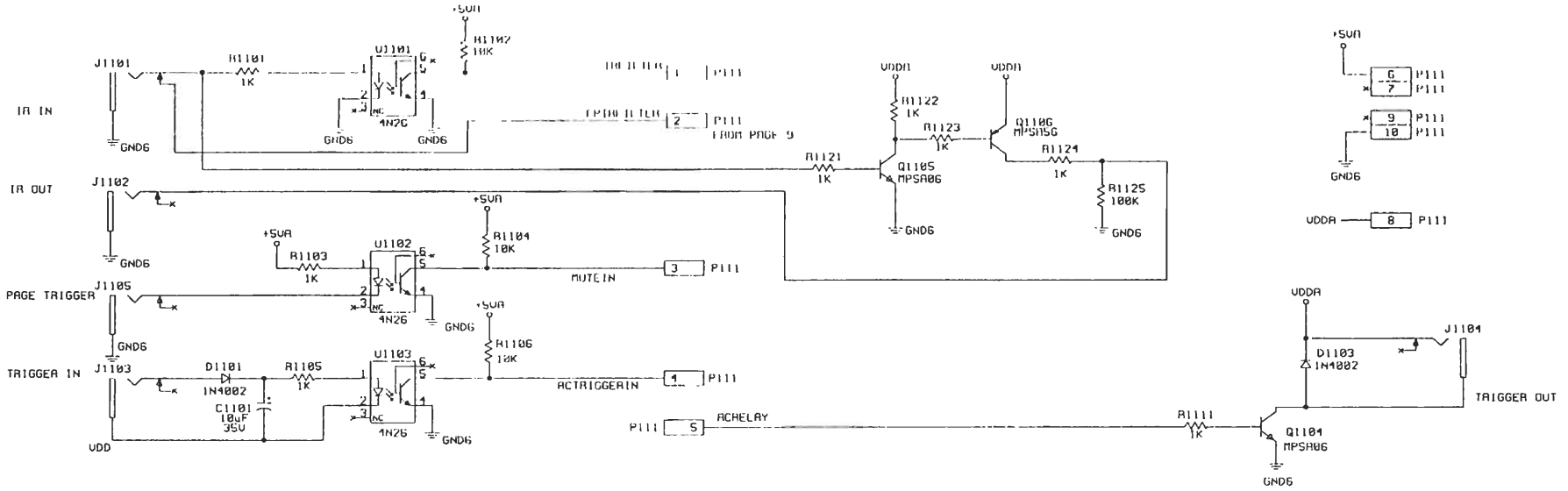
PX600 BOARD 1	REV. D0
SHEET 13 OF 16	

PX600 MAIN BOARD 4-19-96 12:00



PX600 BOARD 2	REV. D0
SHEET 14 of 16	

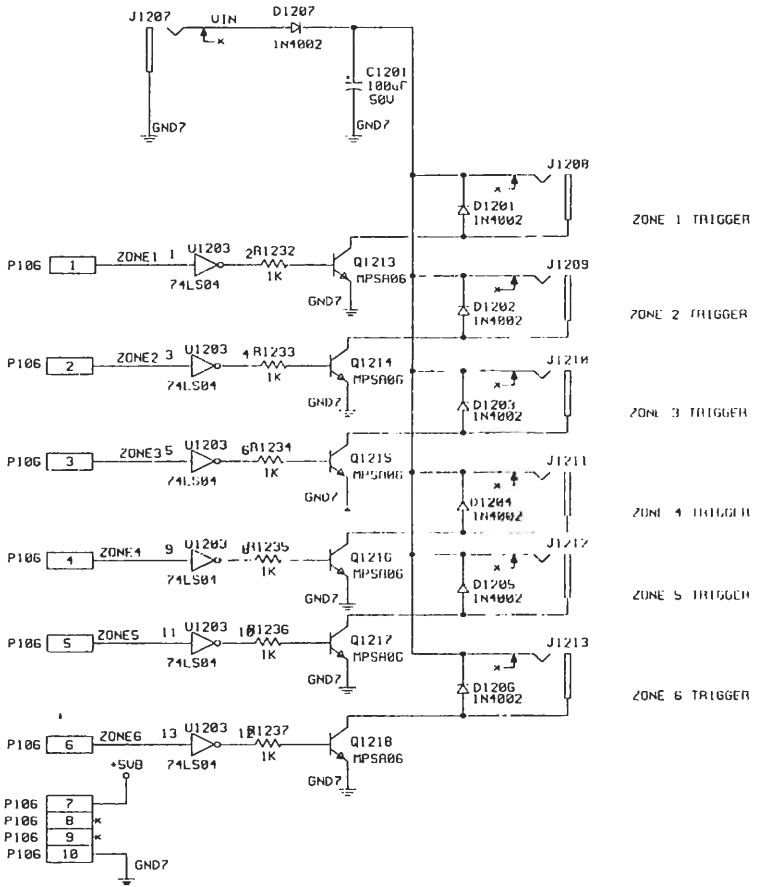
PX600 MAIN BOARD 4-19-96 12:00



PX600 BOARD 2 | REV D0

SHEET 15 OF 16

PX600 MAIN BOARD 4-19-96 12:00



PX600 BOARD 3	REV. D0
SHEET 16 OF 16	

PX600 MAIN BOARD 4-19-96 12:00

PX-600

MAIN BOARD

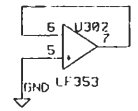
REV D1

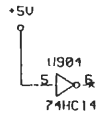
IC CHART

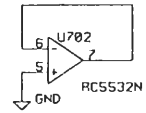
TYPE	VOLTAGE/PIN NO.				REFERENCE DESIGNATOR CHART	BYPASS CAP
	V+	AGND	+5V	DGND		
LF353	8	4	N/A	N/A	U201,U202,U203,U204,U301,U302,U403,	C101-C124
			N/A	N/A	U404,U407,U408,U409,U410,U503,U504,	
			N/A	N/A	U507,U508,U509,U510,U603,U604,U607,	
			N/A	N/A	U608,U609,U610	
NE5532AN	8	4	N/A	N/A	U701,U702	C125,C147
CD4052	SHOWN ON SCH		N/A	N/A	U401,U402,U501,U502,U601,U602	C140-C146
TEA6300	SHOWN ON SCH		N/A	N/A	U405,U406,U505,U506,U605,U606	SHOWN ON SCH
80C552	N/A	N/A	N/A	N/A	U801	SHOWN ON SCH
74HC573	N/A	N/A	20	10	U802	C126
MAX707CPA	N/A	N/A	2	3	U800	C127
27C512	N/A	N/A	28	14	U803	C128
DS1244YM-200	N/A	N/A	28	14	U804	C129
74HC138	N/A	N/A	16	8	U901	C130
74HC245	N/A	N/A	20	10	U902	C131
74HC08	N/A	N/A	14	7	U903,U1201,U1202	C132-C134
74HC14	N/A	N/A	14	7	U904	C135
74LS574	N/A	N/A	20	10	U1001,U1002	C136,C137
CD4051	N/A	N/A	16	8	U1003	C138
74LS04	N/A	N/A	+5VB 14	GNDZ 7	U1203	C139
75176	N/A	N/A	8	5	U1106	

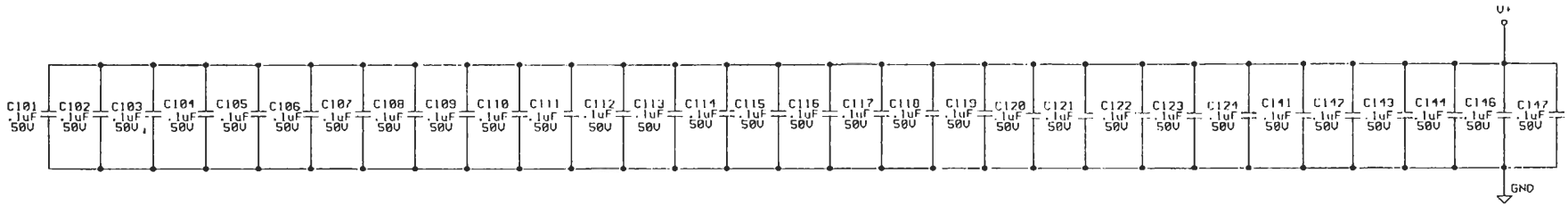
NOTES:

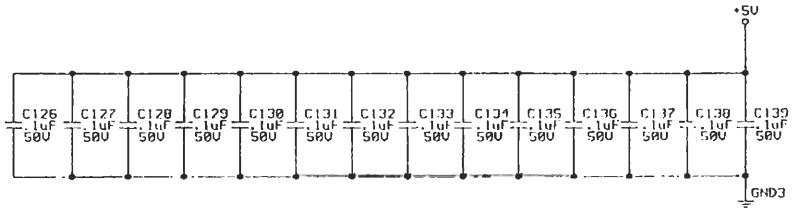
1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/8W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.











RELEASED FOR MANUFACTURE
BY [signature] 4/30/96

SIGNATURE		DATE
DRAWN	MILLE	7/06/94
DRFTG CHK	LAM	4/22/96
DESIGN CHK	RSN	4/10/96

PXG00D1.SCH

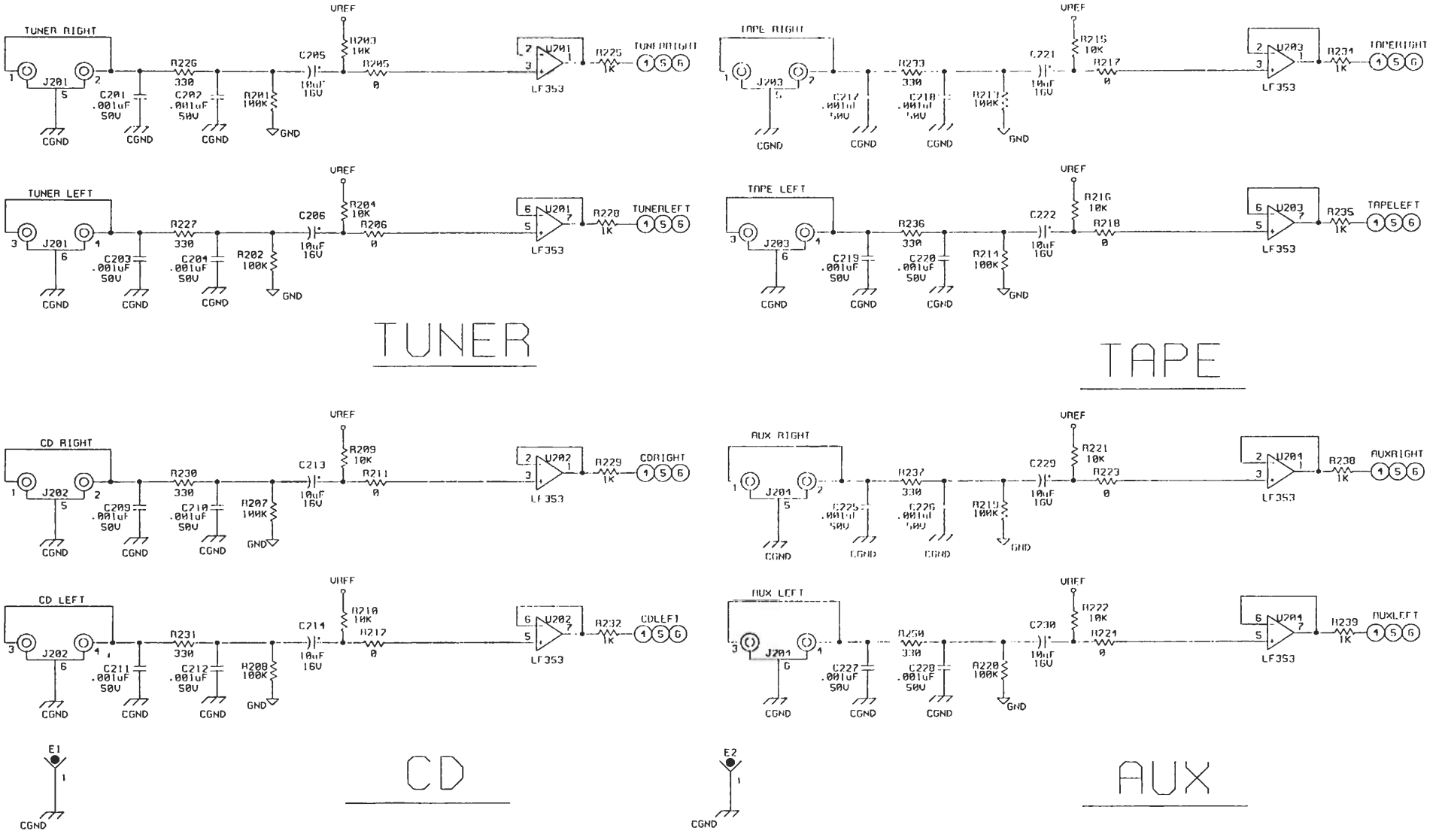
AUDIOACCESS
26016 EDEN LANDING ROAD
HAYWARD, CA. 94545

PXG00 BOARD 1

DWG. NO. | REV. D1

SHEET 1 OF 16

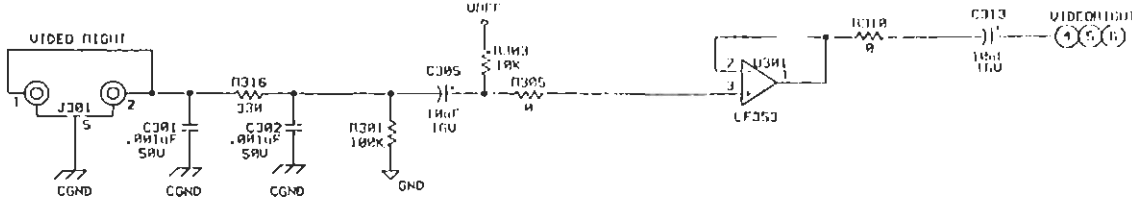
PXG00_MAIN_BOARD 4-18-96 2:00

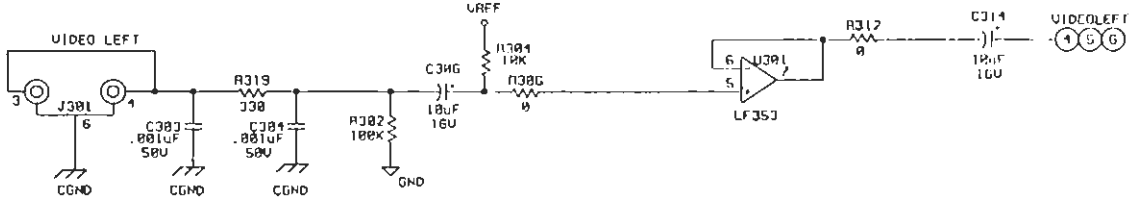


PX600 BOARD 1 | REV. D1

SHEET 2 OF 16

PX600 MAIN BOARD 4-18-96 2:00





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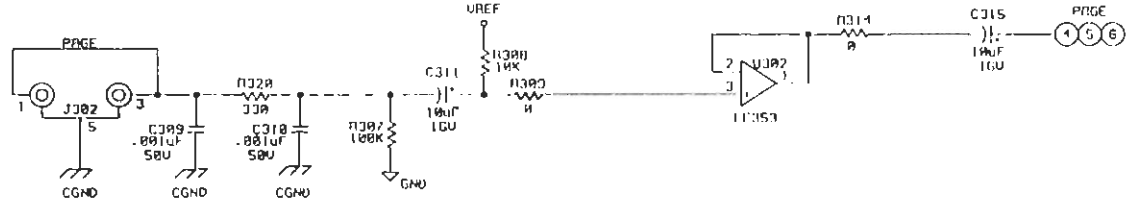

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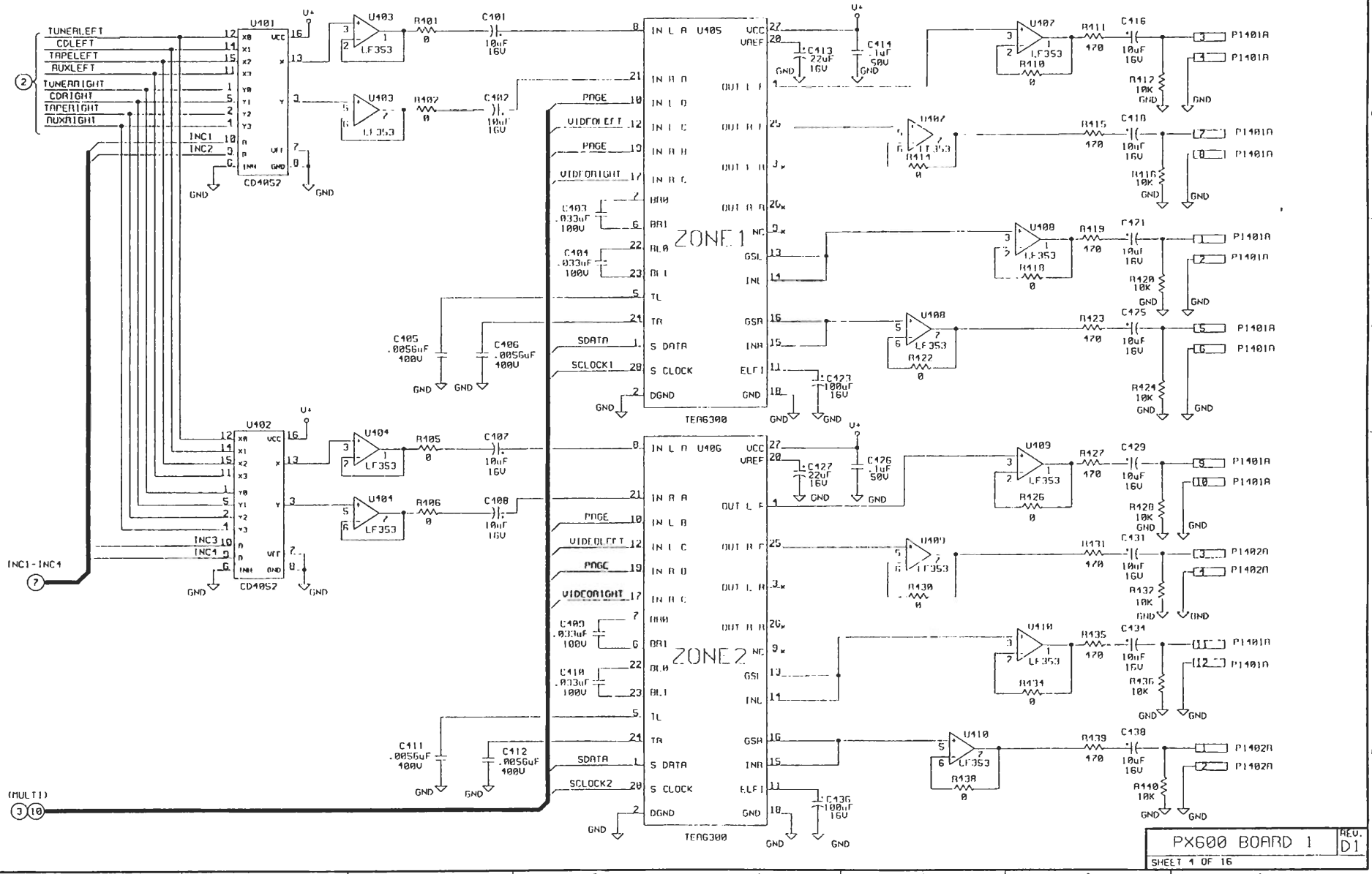
PX600 BOARD 1 | REV. D1

SHEET 3 OF 16

PX600 MAIN BOARD 4-18-96 2:30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TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC1
INC2
INC3
INC4
INC1-INC4
(MULTI)
U401
U402
CD4052
U403
U404
LF353
R401
R402
R405
R406
C401
C402
C407
C408
10uF 16V
0
GND
U405
U406
TEA6300
ZONE 1
ZONE 2
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK1
SCLOCK2
C403 .033uF 100V
C404 .033uF 100V
C405 .0056uF 400V
C406 .0056uF 400V
C409 .033uF 100V
C410 .033uF 100V
C411 .0056uF 400V
C412 .0056uF 400V
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C418
C421
C425
C429
C431
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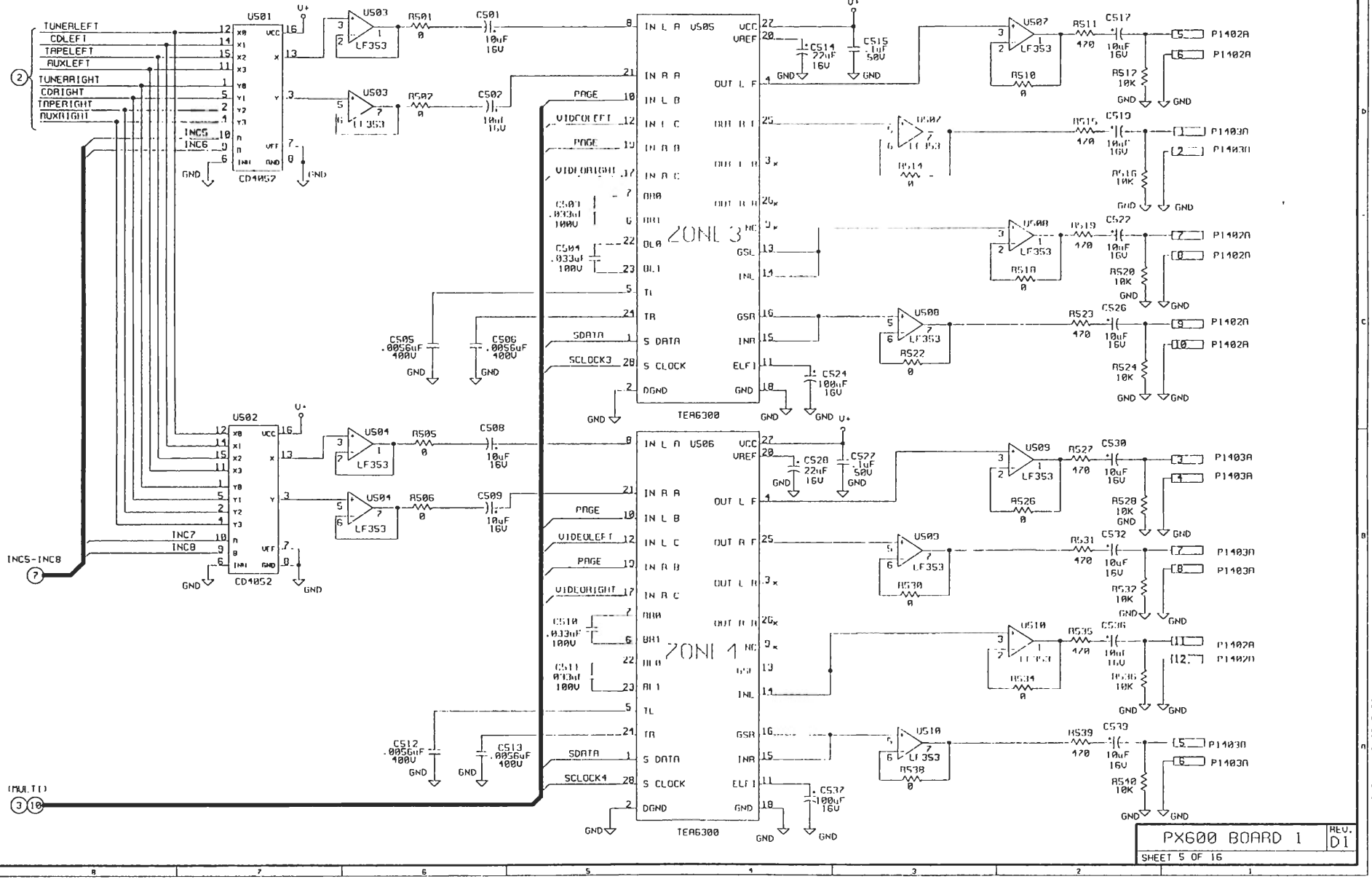
P1401A
P1402A
PX600 BOARD 1
REV. D1
SHEET 4 OF 16
PX600 MAIN BOARD 4-18-96 2:30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AUXLEFT
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CDRIGHT
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AUXRIGHT
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INC8
INC5-INC8
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U504
LF353
R501
R502
C501
C502
10uF 16V
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U506
TEA6300
ZONE 3
ZONE 1
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK3
SCLOCK4
C503 .033uF 100V
C504 .033uF 100V
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C532
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C539
P1402A
P1402B
P1403A
P1403B
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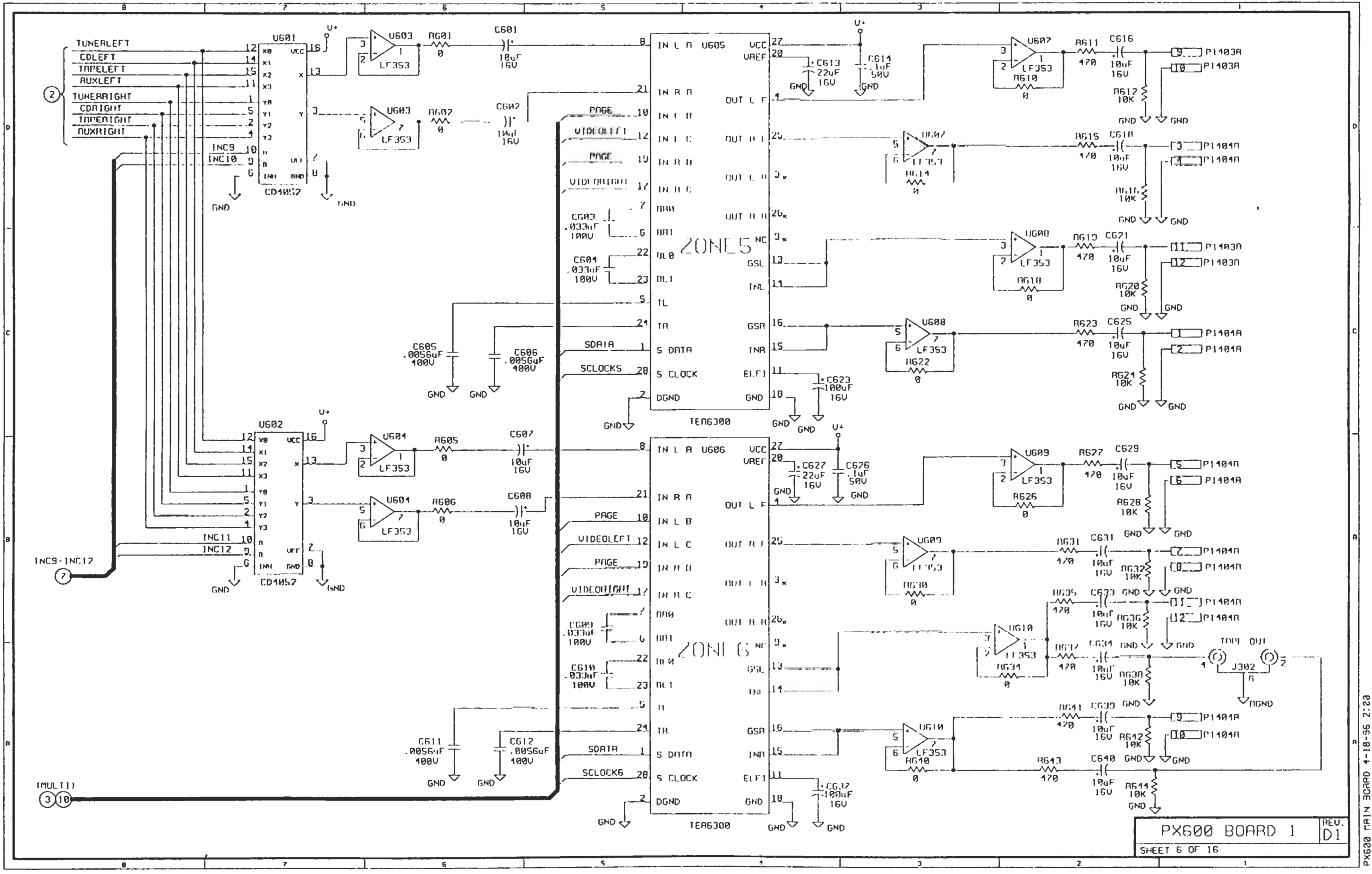
PX600 BOARD 1
REV. D1
SHEET 5 OF 16
PX600 MAIN BOARD 4-18-96 2:00



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CDRIGHT
TAPERIGHT
AUXRIGHT
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INC10
INC11
INC12
INC9-INC12
(MULTI)
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CD4052
U602
CD4052
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LF353
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C608
10uF
16V
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VIDEORIGHT
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SCLOCK6
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C613
22uF
16V
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50V
C623
C632
100uF
16V
C627
C626
IN L A
IN R A
IN L B
IN L C
IN R B
IN R C
BA0
BA1
BL0
BL1
TL
TR
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DGND
VCC
VREF
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OUT R F
OUT L R
OUT R R
NC
GSL
INL
GSR
INR
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ZONE 6
TEA6300
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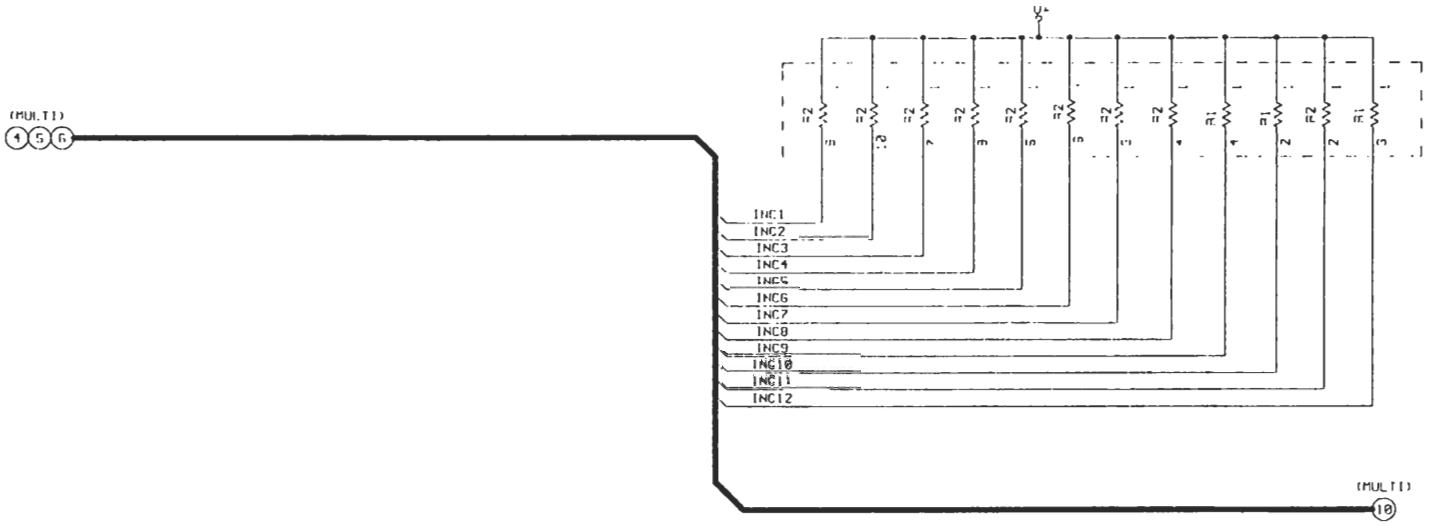
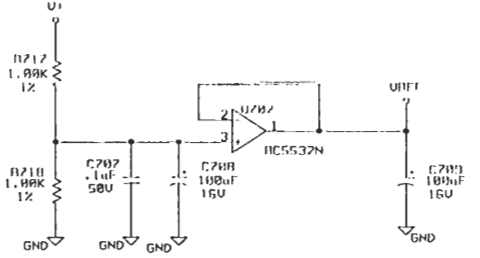
AGND
V+
PX600 BOARD 1
REV.
D1
SHEET 6 OF 16
PX600 MAIN BOARD 4-18-96 2:03

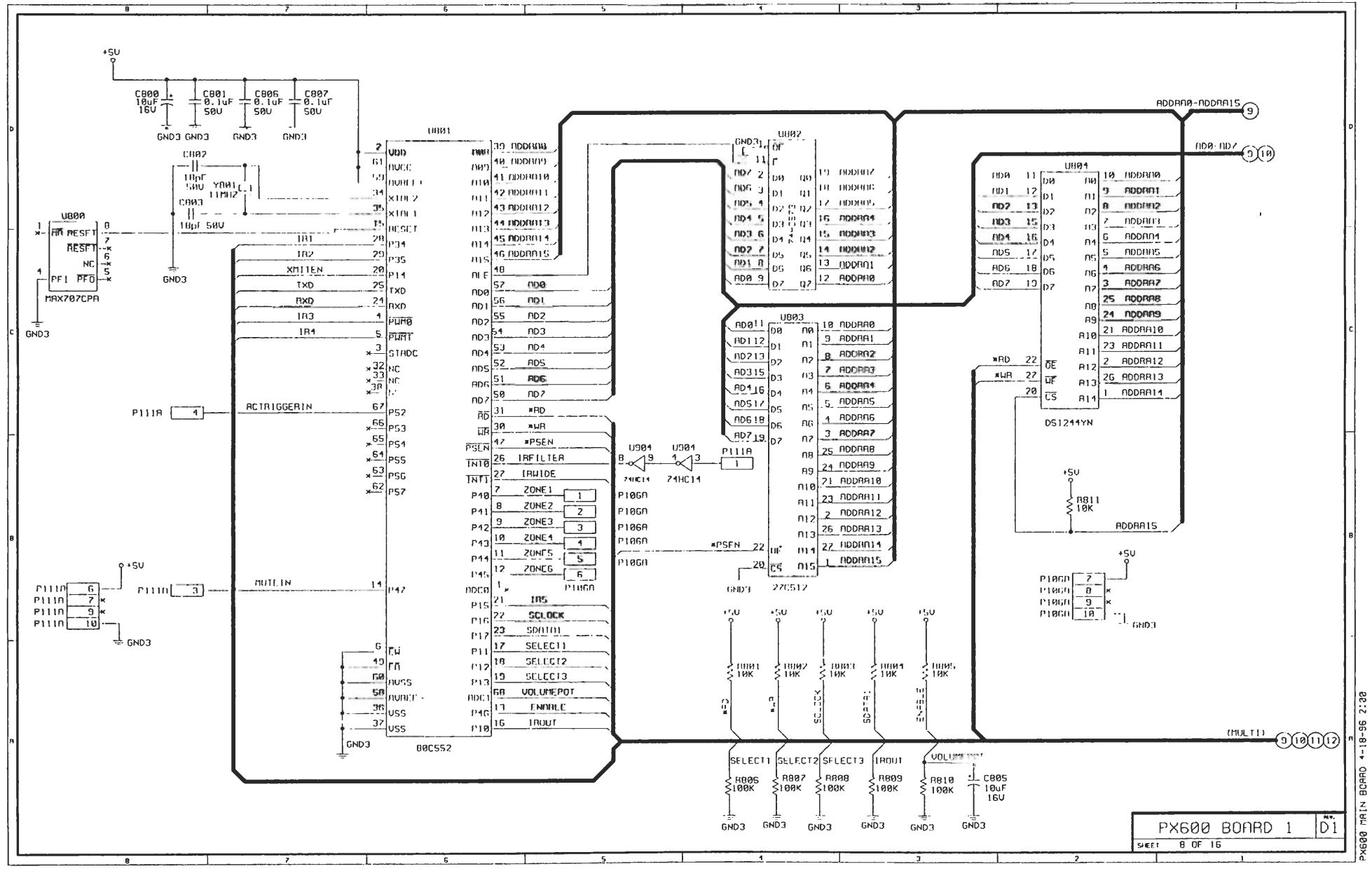


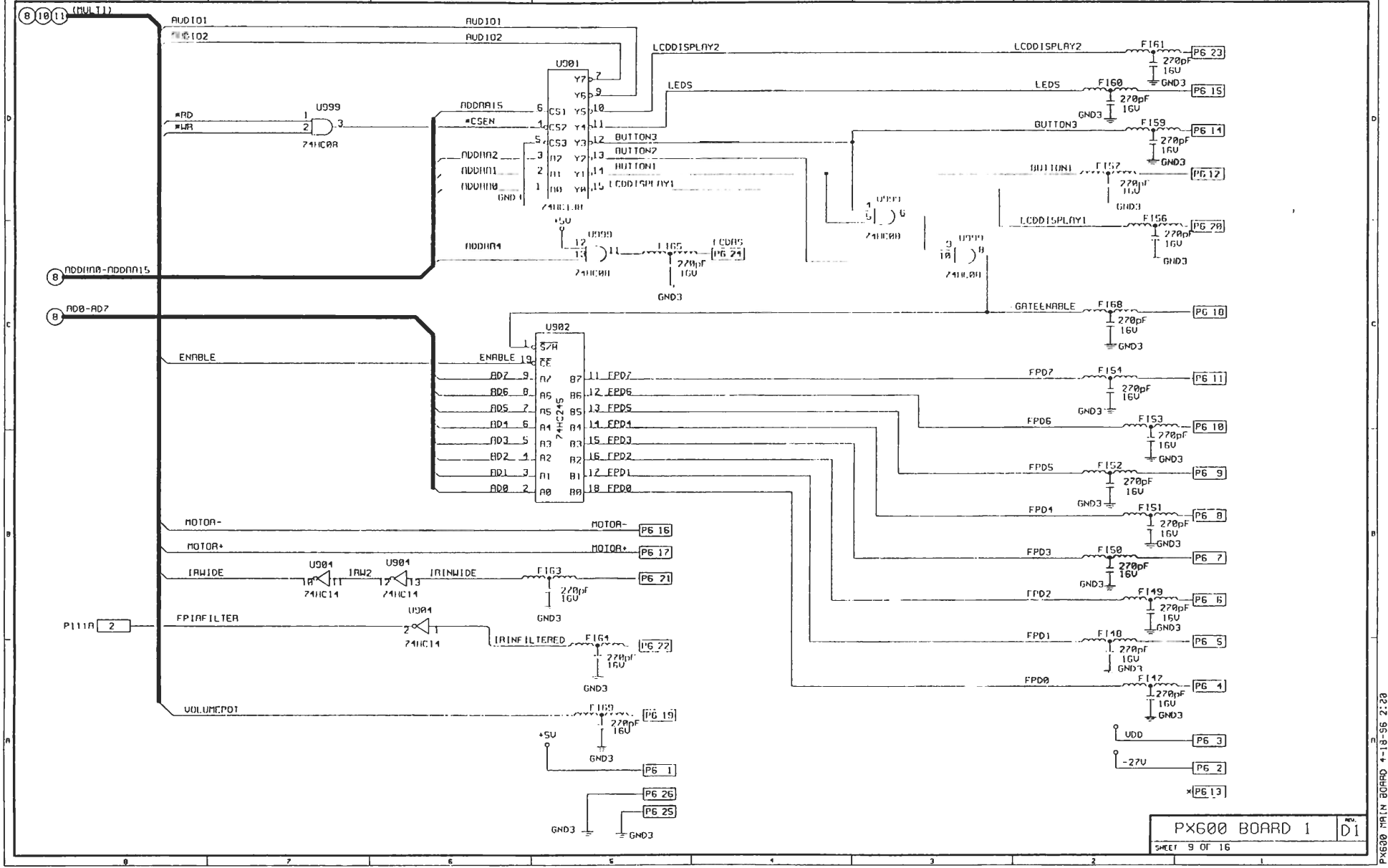


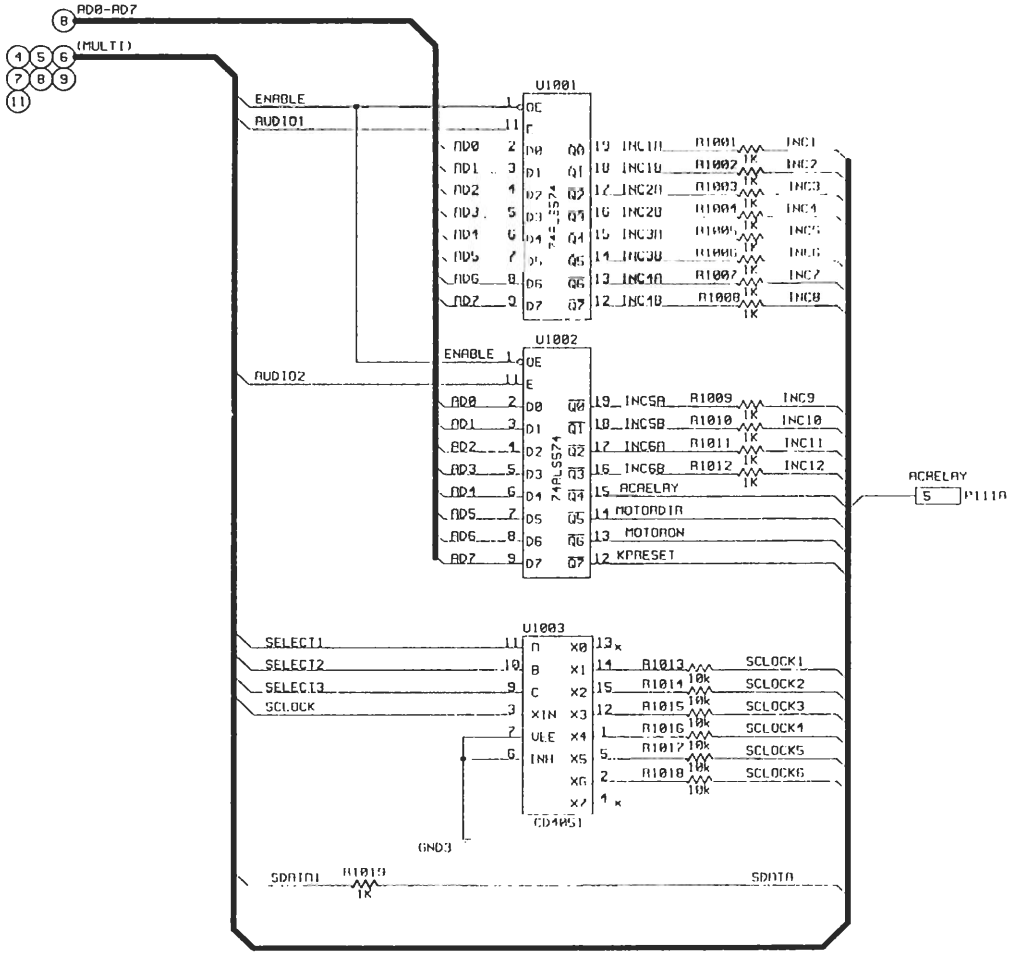
PX600 BOARD 1 | REV. D1

SHEET 7 OF 16

PX600 MAIN BOARD 96-10-14 02:2


+5V
C800 10uF 16V
C801 0.1uF 50V
C806 0.1uF 50V
C807 0.1uF 50V
GND3
C802 10pF 50V
C803 10pF 50V
Y801 11MHZ
U800
MAX707CPA
U801
80C552
U802
74LS373
U803
27C512
U804
DS1244YN
U901
74HC14
ADDRA0-ADDRA15
AD0-AD7
(MULTI)
ACTRIGGERIN
MUTEIN
IR1
IR2
XMITEN
TXD
RXD
IR3
IR4
IR5
ZONE1
ZONE2
ZONE3
ZONE4
ZONE5
ZONE6
SCLOCK
SDATA1
SELECT1
SELECT2
SELECT3
VOLUMEPOT
ENABLE
IROUT
*RD
*WR
*PSEN
IRFILTER
IRWIDE
R801 10K
R802 10K
R803 10K
R804 10K
R805 10K
R806 100K
R807 100K
R808 100K
R809 100K
R810 100K
R811 10K
C805 10uF 16V
PX600 BOARD 1
D1
SHEET 8 OF 16
PX600 MAIN BOARD 4-18-96 2:38

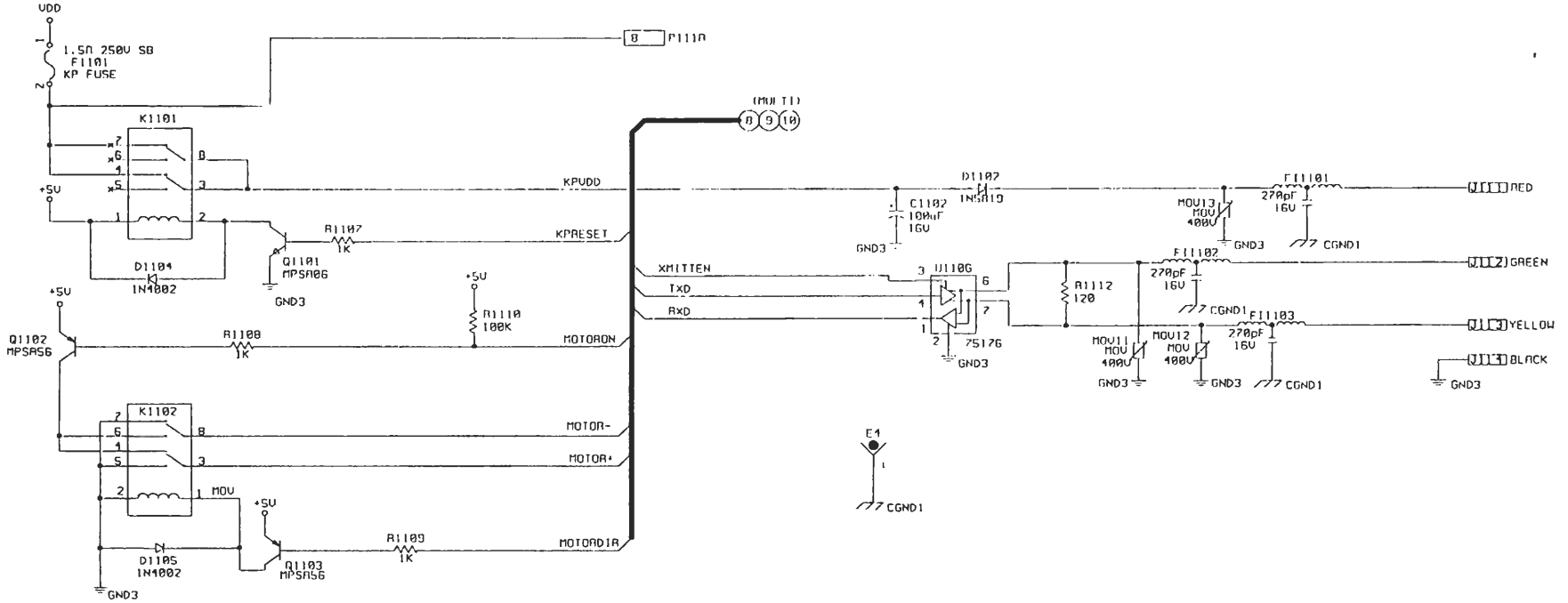

(MULTI)
AUDIO1
AUDIO2
U901
U999
*RD
*WR
74HC08
ADDRA15
*CSEN
ADDRA2
ADDRA1
ADDRA0
GND1
74HC138
+5V
ADDRA4
U999
74HC08
P6 29
LCDRS
GND3
LCDDISPLAY2
LEDS
BUTTON3
BUTTON2
BUTTON1
LCDDISPLAY1
U999
74HC08
U999
74HC08
ADDRA0-ADDRA15
AD0-AD7
U902
74HC245
$74
ENABLE
ENABLE 19
AD7 9
AD6 8
AD5 7
AD4 6
AD3 5
AD2 4
AD1 3
AD0 2
A7 A6 A5 A4 A3 A2 A1 A0
B7 B6 B5 B4 B3 B2 B1 B0
11 FPD7
12 FPD6
13 FPD5
14 FPD4
15 FPD3
16 FPD2
17 FPD1
18 FPD0
MOTOR-
MOTOR+
IRWIDE
U904
74HC14
IRW2
U904
74HC14
IRINWIDE
P111A 2
FPIRFILTER
U904
74HC14
IRINFILTERED
VOLUMEPOT
+5V
GND3
P6 1
P6 26
P6 25
GND3
GND3
LCDDISPLAY2
LEDS
BUTTON3
BUTTON2
BUTTON1
LCDDISPLAY1
GATEENABLE
FPD7
FPD6
FPD5
FPD4
FPD3
FPD2
FPD1
FPD0
FI61
FI60
FI59
FI58
FI57
FI56
FI68
FI54
FI53
FI52
FI51
FI50
FI49
FI48
FI47
FI63
FI64
FI69
270pF
16V
GND3
P6 23
P6 15
P6 14
P6 12
P6 20
P6 10
P6 11
P6 10
P6 9
P6 8
P6 7
P6 6
P6 5
P6 4
P6 16
P6 17
P6 21
P6 22
P6 19
VDD
-27V
P6 3
P6 2
P6 13
PX600 BOARD 1
REV. D1
SHEET 9 OF 16
PX600 MAIN BOARD 4-18-96 2:28



PX600 BOARD 1 | REV. D1

SHEET 10 OF 16

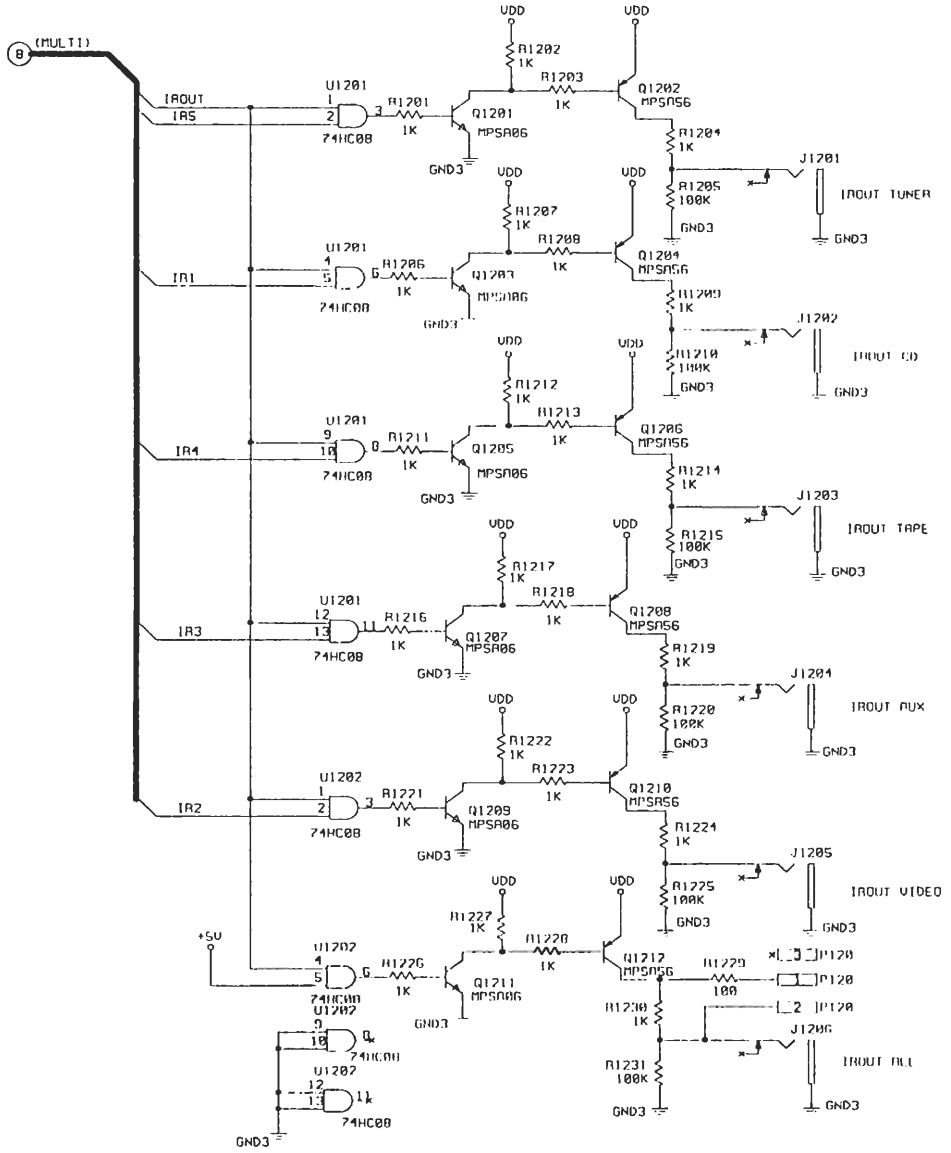
PX600 MAIN BOARD 4-19-95 2:20



PX600 BOARD 1 | REV D1

SHEET 11 OF 16

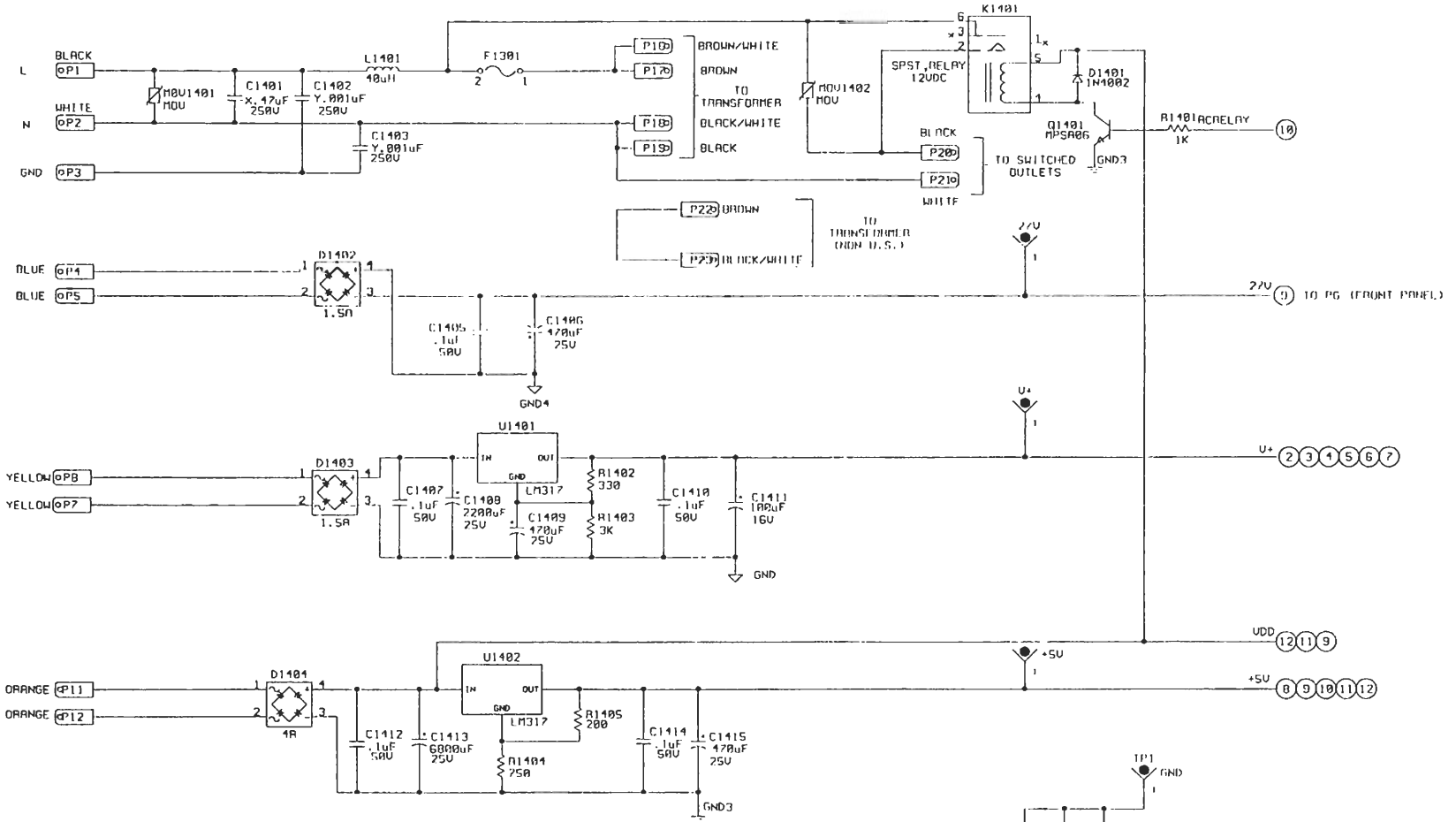
PX600 MAIN BOARD 4-18-95 2:20



PX600 BOARD 1 | REV. D1

SHEET 12 OF 15

PX600 MAIN BOARD 4-13-95 2:20

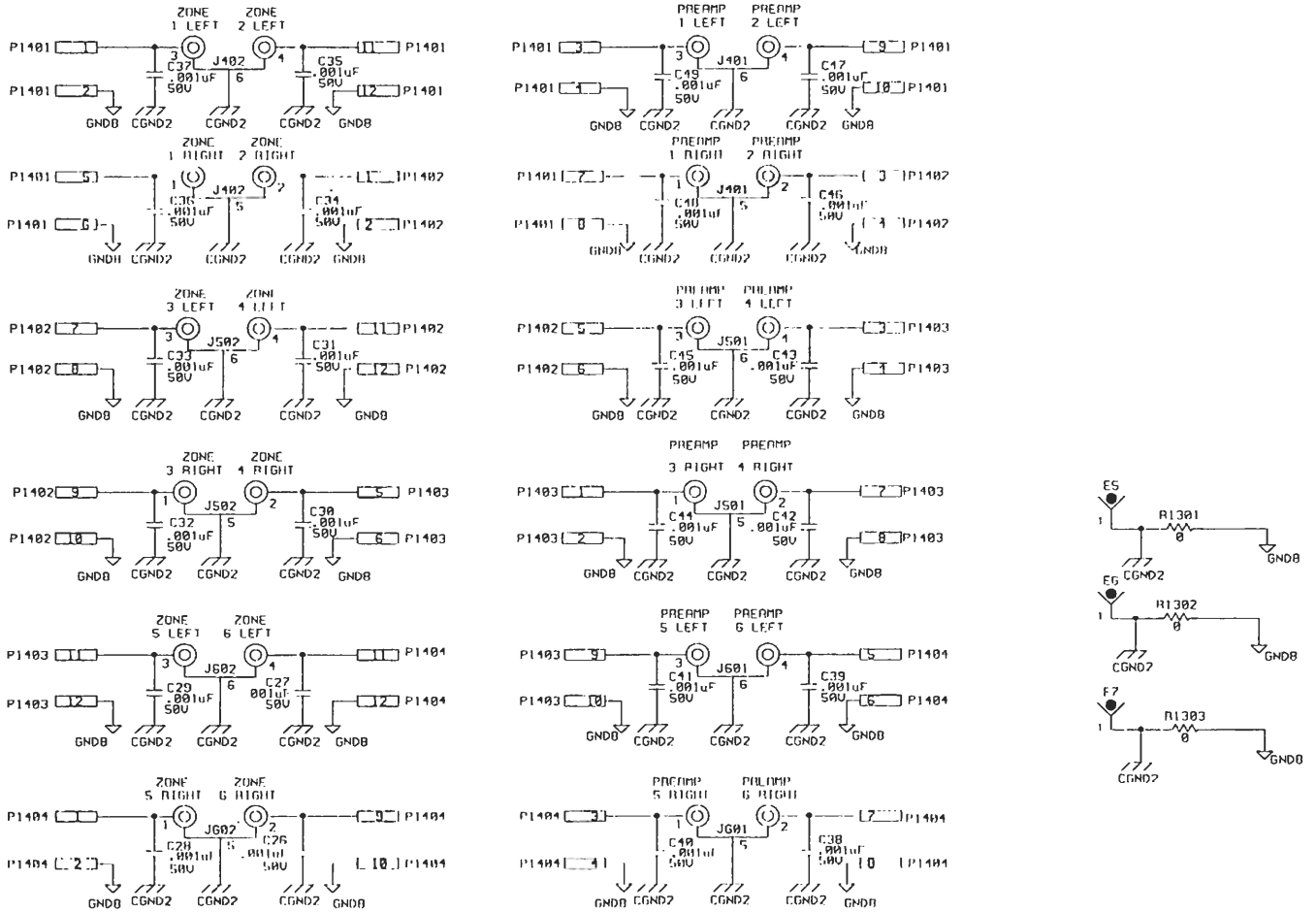


NOTE: F1301 US VERSION, .5A 125V 5B PICO FUSE
F1301 NON-US VERSION, JUMPER

PX600 BOARD 1 REV. D1

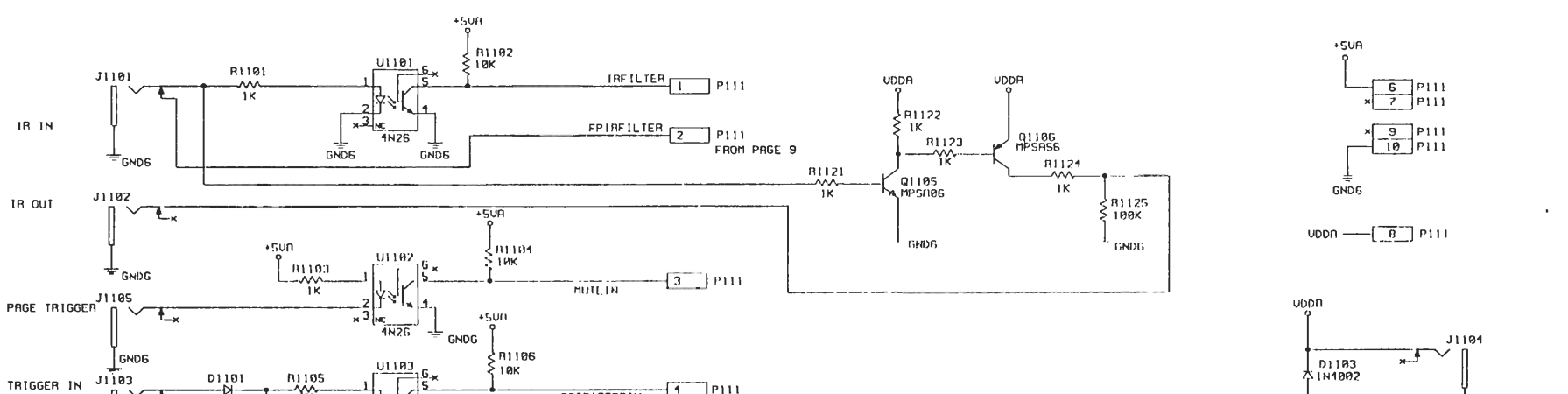
SHEET 13 OF 16

PX600 MAIN BOARD 4-19-95 2:00



PX600 BOARD 2	REV. D1
SHEET 14 of 16	

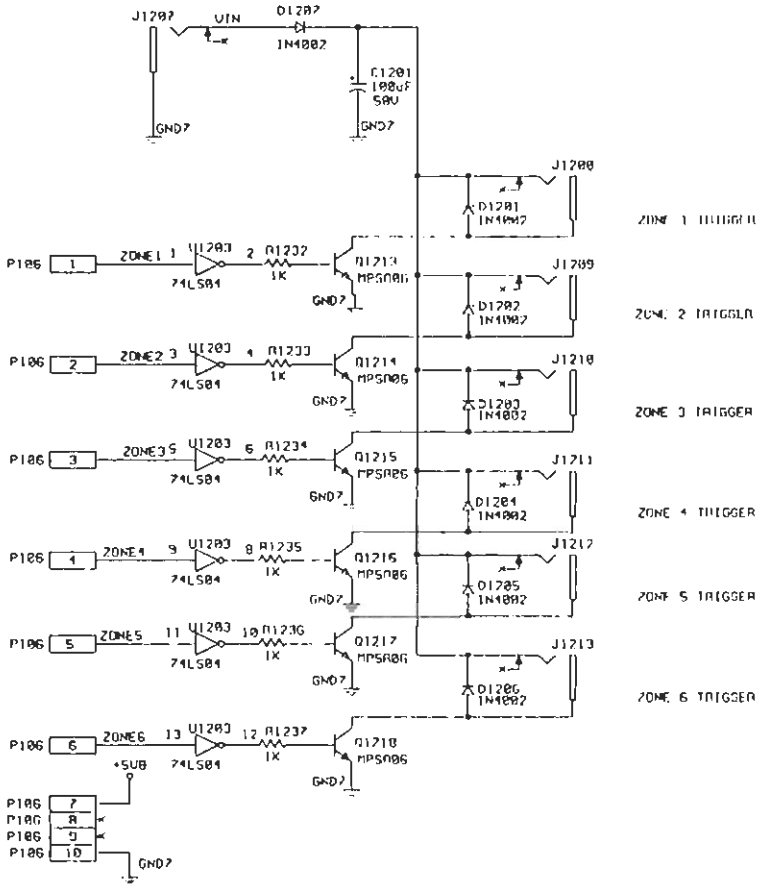
PX600 MAIN BOARD 4-19-95 2:20



PX600 BOARD 2 | REV. D1

SHEET 15 OF 16

PX600 MAIN BOARD 4-18-95 2:22



PX600 BOARD 3	REV. D1
SHEET 16 OF 16	

PX-600

MAIN BOARD

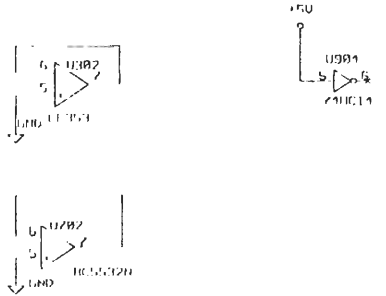
REV D2

IC CHART

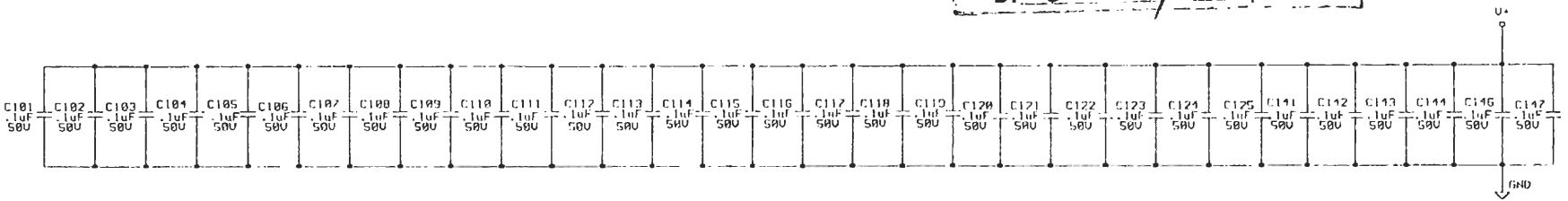
TYPE	VOLTAGE/PIN NO.				REFERENCE DESIGNATOR CHART	BYPASS CAP
	V+	AGND	+5V	DGND		
LF353	8	4	N/A	N/A	U201,U202,U203,U204,U301,U302,U403,	C101-C124
			N/A	N/A	U404,U407,U408,U409,U410,U503,U504,	
			N/A	N/A	U507,U508,U509,U510,U603,U604,U607,	
			N/A	N/A	U608,U609,U610	
NE5532DN	8	4	N/A	N/A	U701,U702	C125,C147
CD4052	SHOWN ON SCH		N/A	N/A	U401,U402,U501,U502,U601,U602	C140-C146
TEA6300	SHOWN ON SCH		N/A	N/A	U405,U406,U505,U506,U605,U606	SHOWN ON SCH
80C552	N/A	N/A	N/A	N/A	U801	SHOWN ON SCH
74HC573	N/A	N/A	20	10	U802	C126
MAX707CPA	N/A	N/A	2	3	U800	C127
27C512	N/A	N/A	28	14	U803	C128
DS1244YM-200	N/A	N/A	28	14	U804	C129
74HC138	N/A	N/A	16	8	U901	C130
74HC245	N/A	N/A	20	10	U902	C131
74HC08	N/A	N/A	14	7	U903,U1201,U1202	C132 C134
74HC14	N/A	N/A	14	7	U904	C135
74LS574	N/A	N/A	20	10	U1001,U1002	C136,C137
CD4051	N/A	N/A	16	8	U1003	C138
74LS04	N/A	N/A	+5VB 14	GND7 7	U1203	C139
75176	N/A	N/A	8	5	U1106	

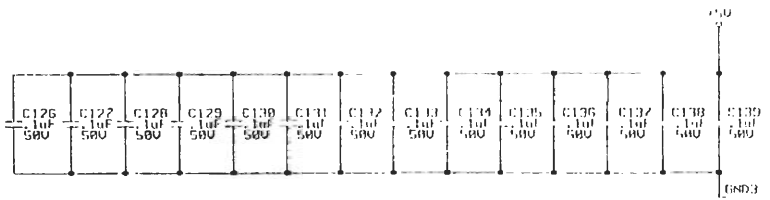
NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/8W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.



RELEASED FOR MANUFACTURE
BY 4/29/96





SIGNATURE		DATE
DRAWN	MILLE	7/06/94
DRAFTING CHK		
DESIGN CHK		

PX600D2.SCH

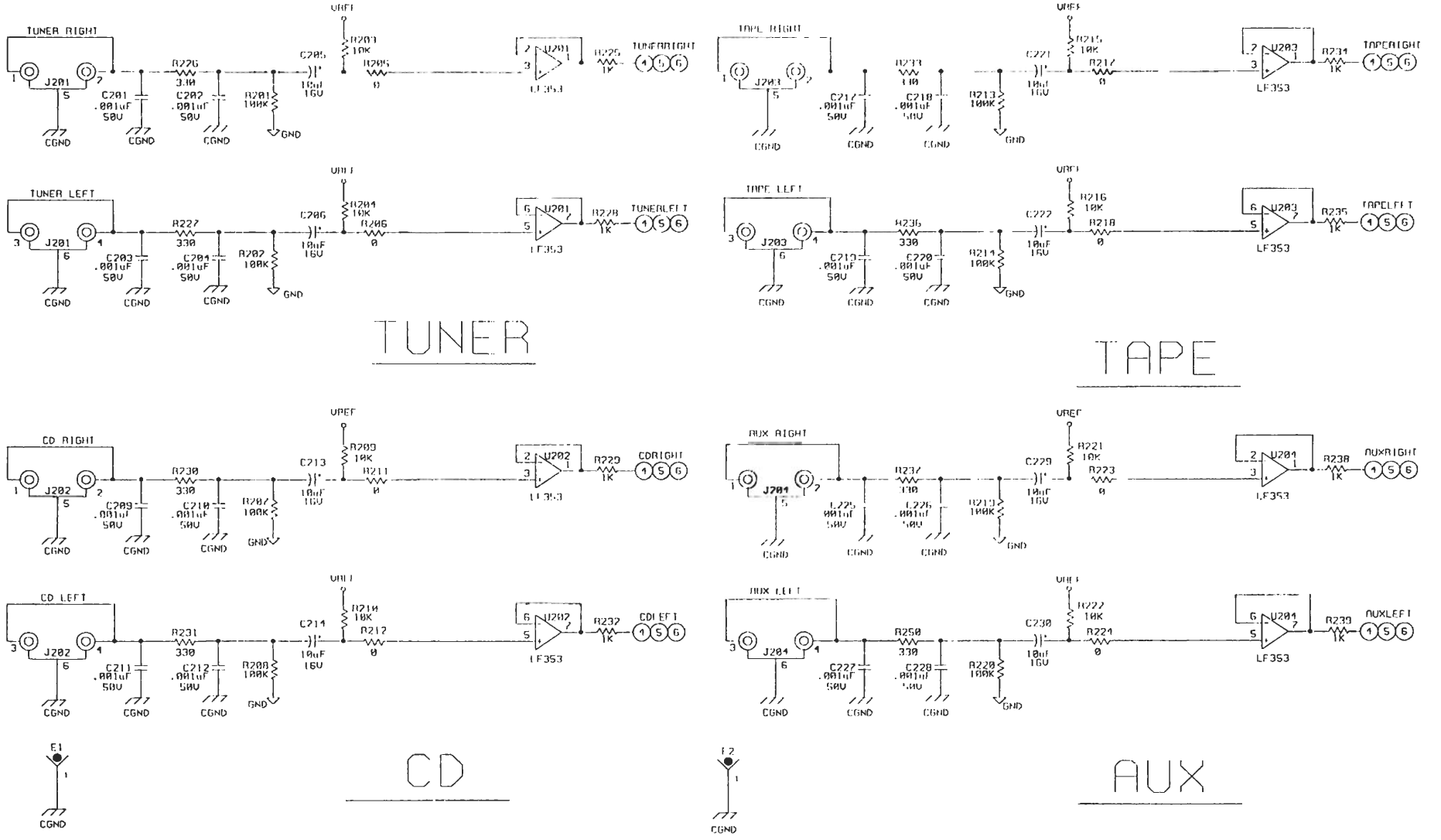
AUDIOACCESS
26046 EDEN LANDING ROAD
HAYWARD, CA. 94545

PX600 BOARD 1

DWG. NO. REV. D2

SHEET 1 OF 16

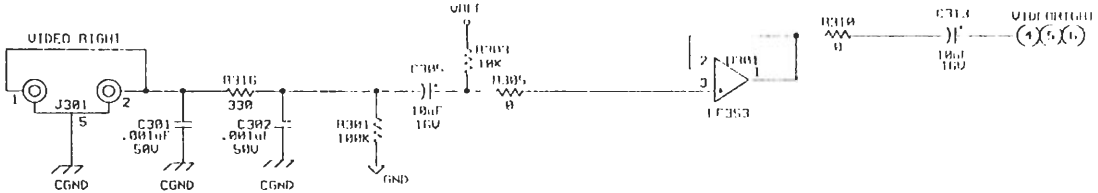
PX600 MAIN BOARD 4-18-95 11:32

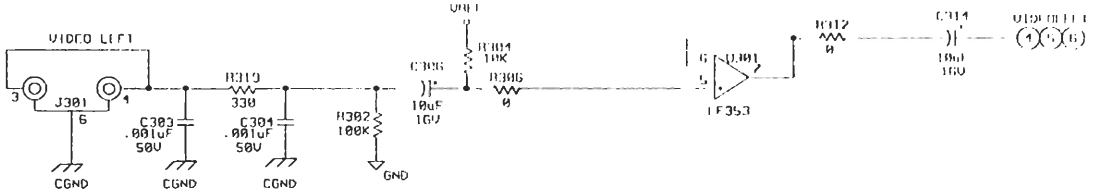


PX600 BOARD 1 | REV. D2

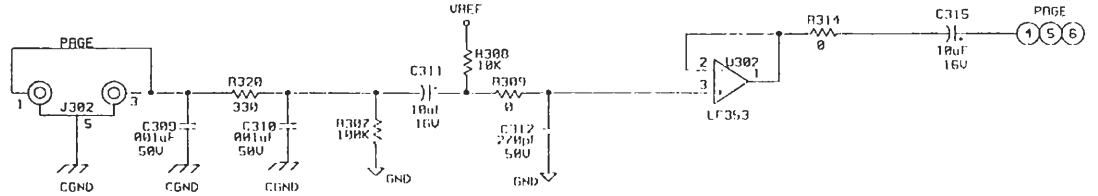
SHEET 2 OF 16

PX600 MAIN BOARD 4-18-96 11:33





VIDEO

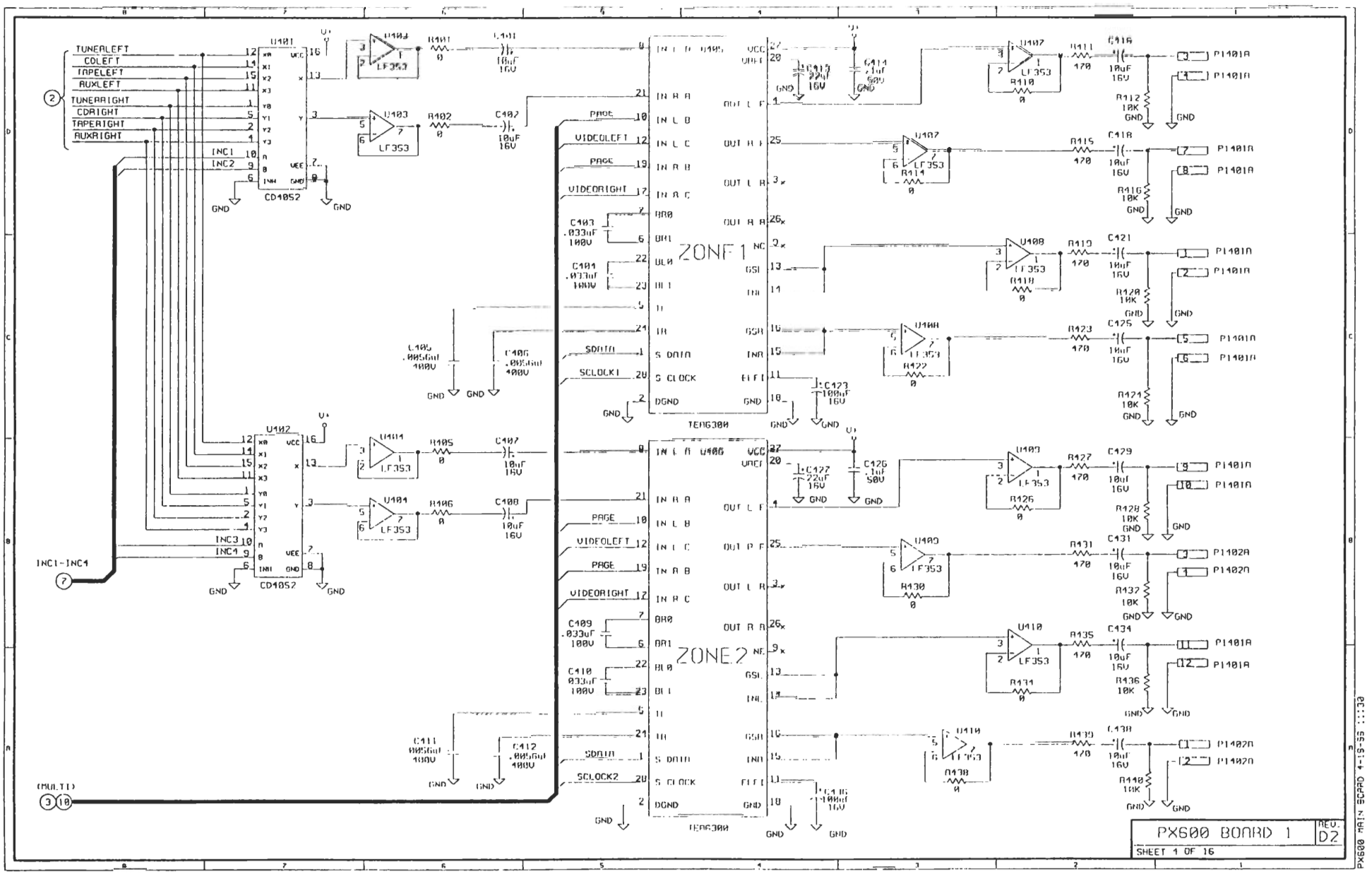


PAGE

PX600 BOARD 1 | REV. D2

SHEET 3 OF 16

PX600 MAIN BOARD 4-18-96 11:38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COLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC1
INC2
INC3
INC4
INC1-INC4
U401
U402
CD4052
LF353
R401
R402
R404
R405
R406
R407
R408
R409
R410
R411
R412
R413
R414
R415
R416
R417
R418
R419
R420
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R424
R425
R426
R427
R428
R429
R430
R431
R432
R433
R434
R435
R436
R437
R438
R439
R440
C401
C402
C403
C404
C405
C406
C407
C408
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C426
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C429
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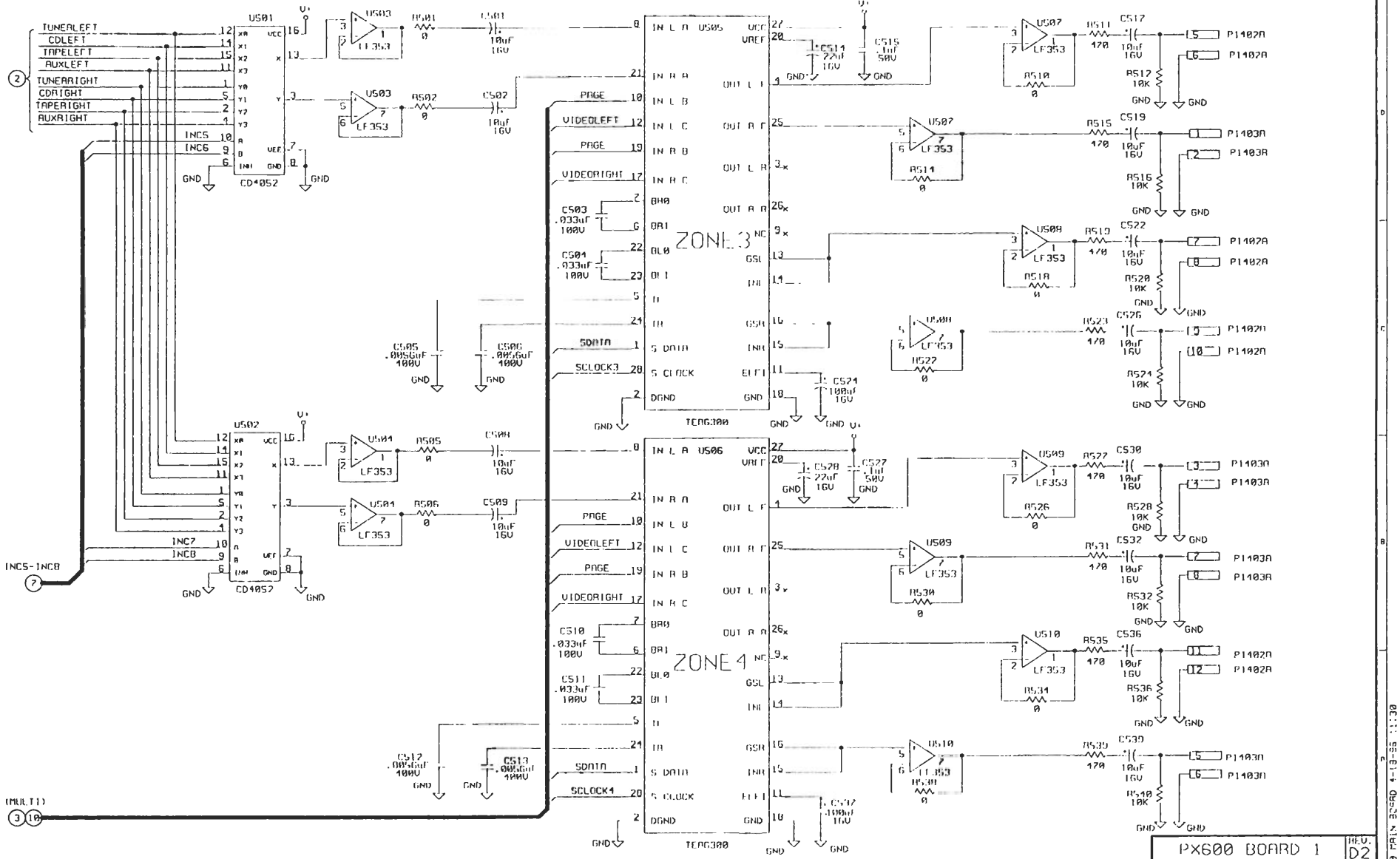
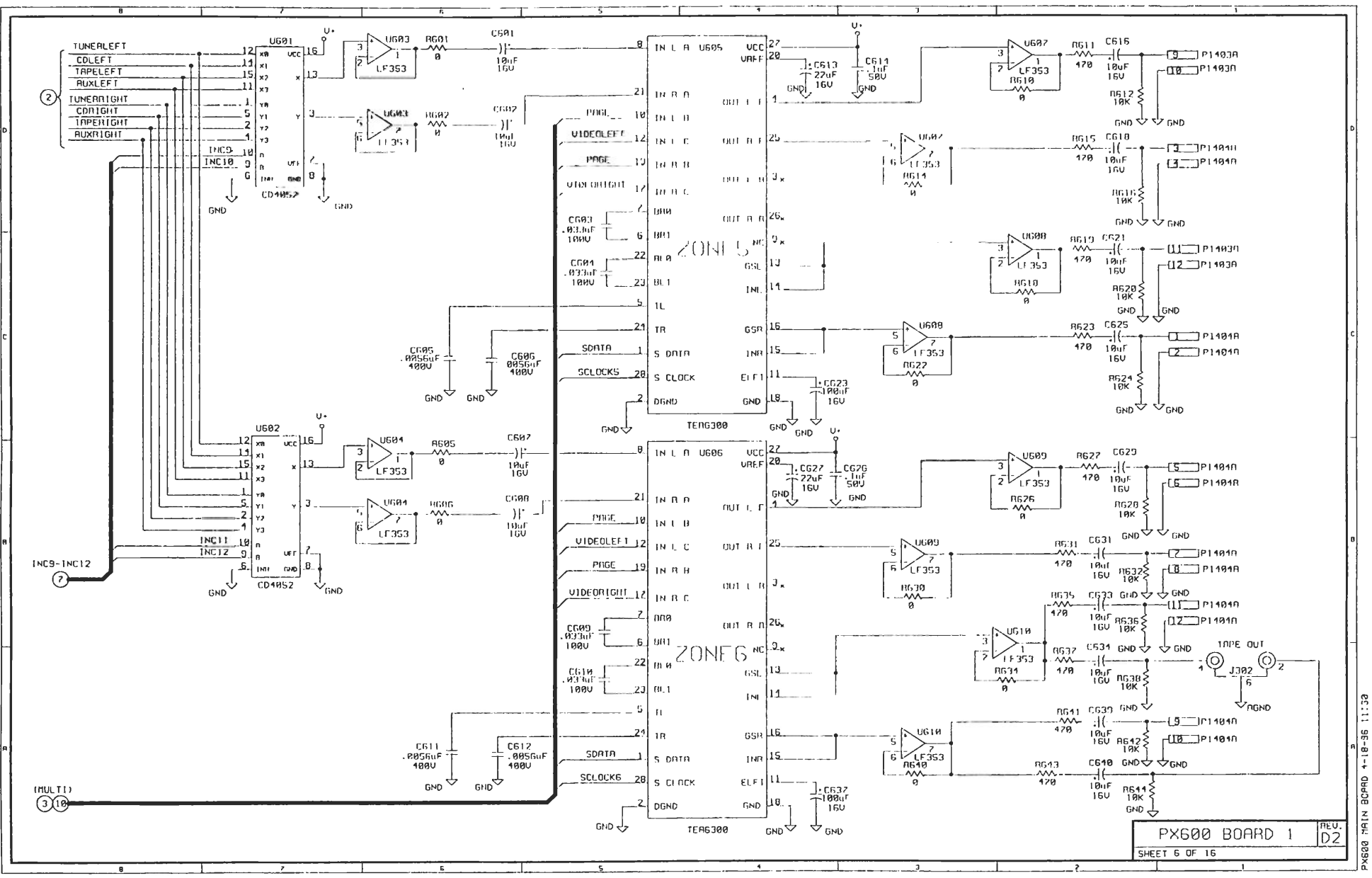
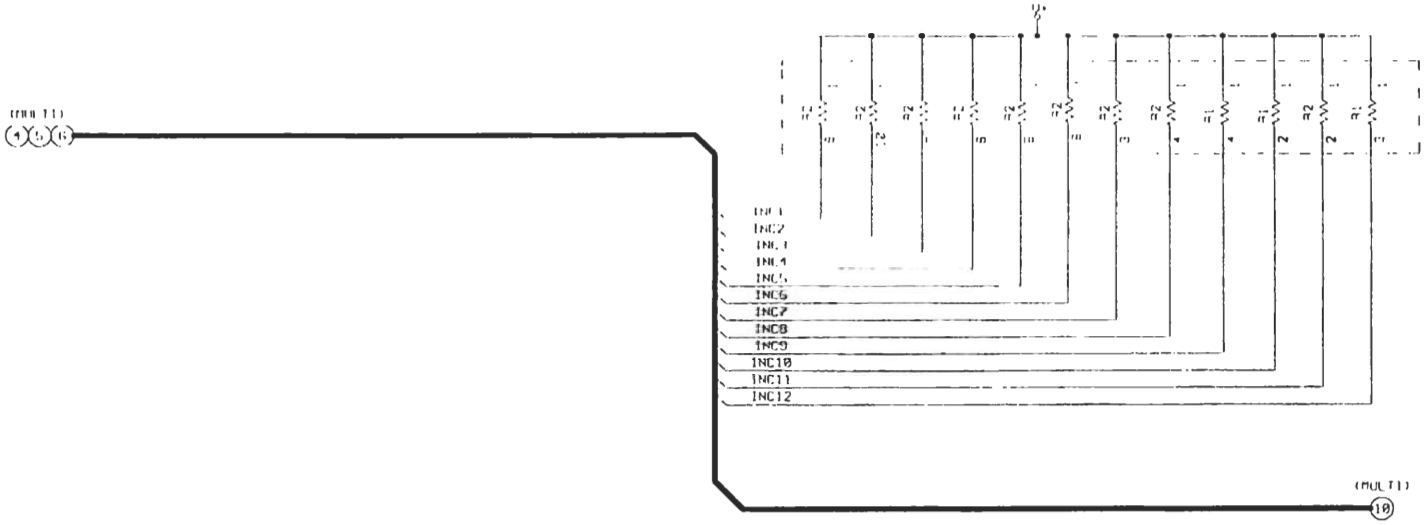
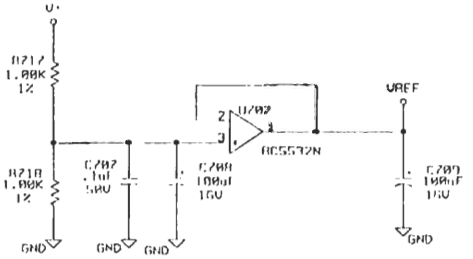
C431
C432
C433
C434
C435
C436
C437
C438
C439
C440
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK1
SCLOCK2
ZONE1
ZONE2
TEA6300
P1401A
P1402A
(MULTI)
GND
PX600 BOARD 1
REV. D2
SHEET 1 OF 16
PX600 MAIN BOARD 4-19-93 11:11:30

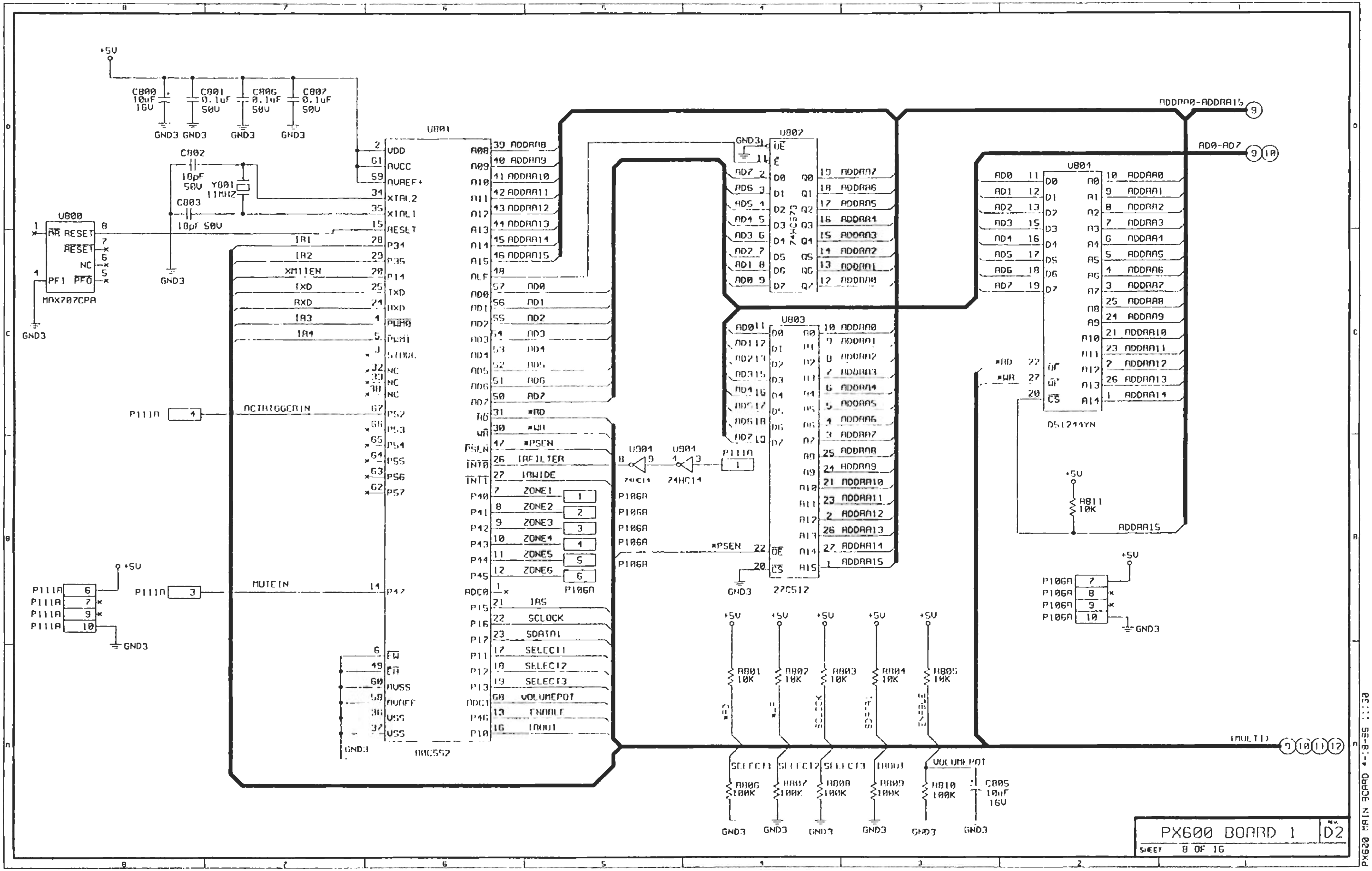

TUNERLEFT
CDLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC5
INC6
INC7
INC8
INC5-INC8
(MULTI)
U501
U502
CD4052
U503
U504
U505
U506
TEN6300
ZONE 3
ZONE 4
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK3
SCLOCK4
U507
U508
U509
U510
LF353
P1402A
P1403A
GND
V+
PX600 BOARD 1
REV. D2
SHEET 5 OF 16


TUNERLEFT
CDLEFT
TAPELEFT
AUXLEFT
TUNERIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC9
INC10
INC11
INC12
INC9-INC12
(MULTI)
U601
U602
CD4052
U603
U604
U605
U606
TEN6300
TEA6300
ZONE 5
ZONE 6
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK5
SCLOCK6
U607
U608
U609
U610
LF353
P1401A
P1402A
P1403A
TAPE OUT
J302
AGND
GND
PX600 BOARD 1
REV. D2
SHEET 6 OF 16
PX600 MAIN BOARD 4-18-96 11:39

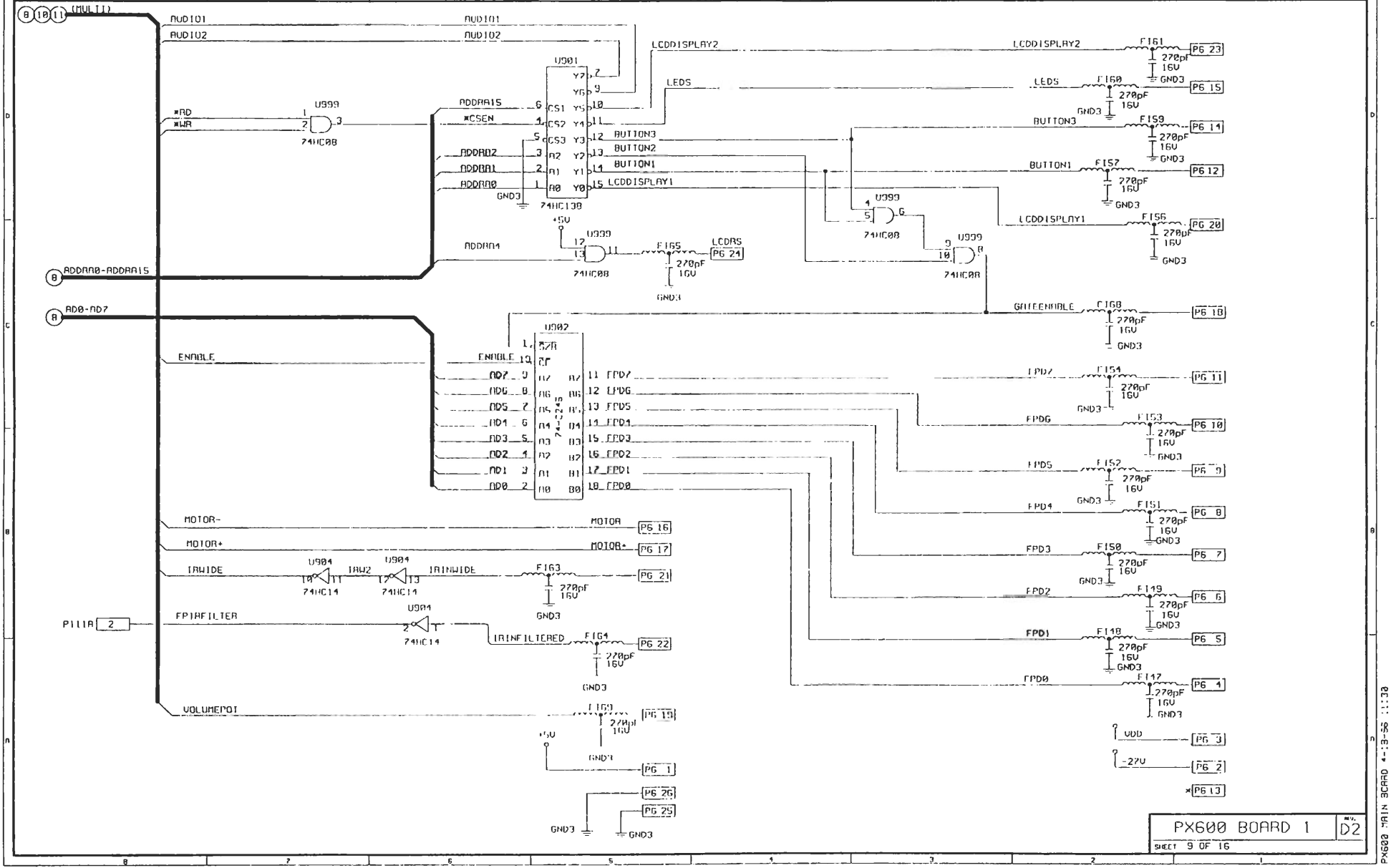


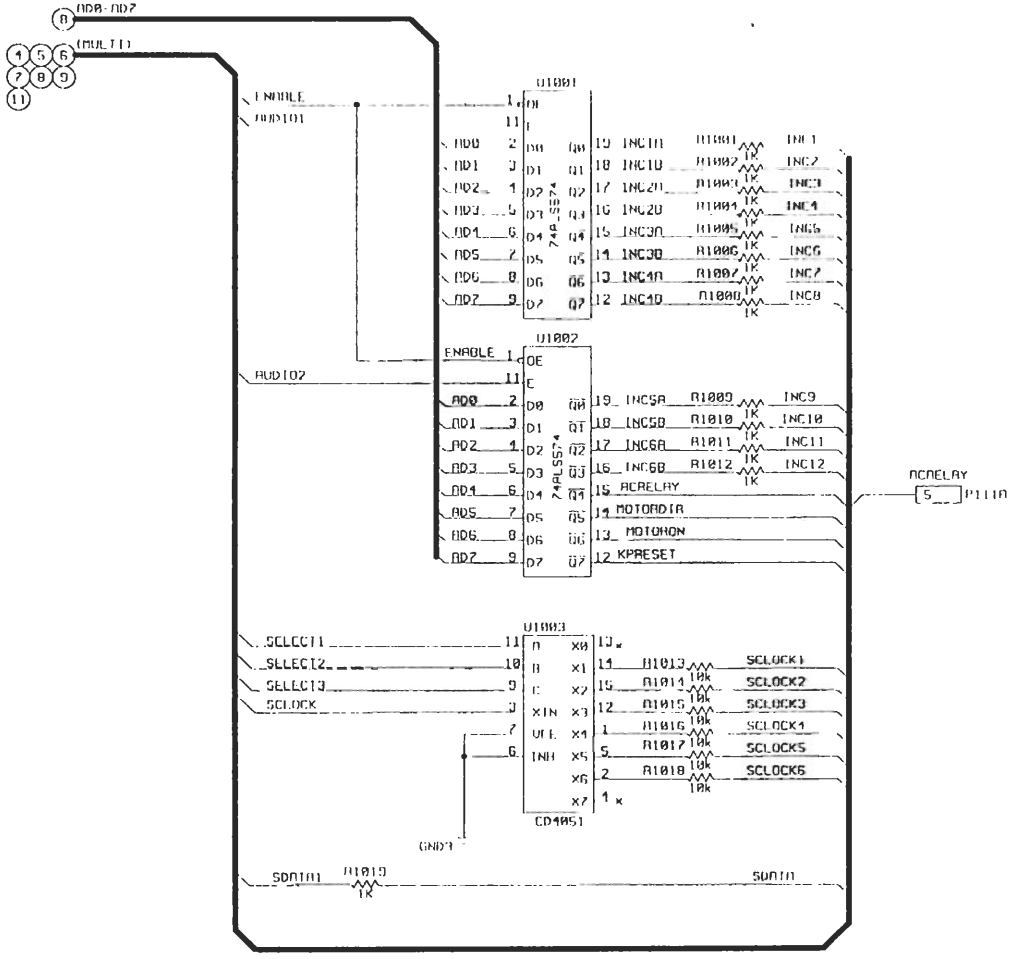


PX600 BOARD 1	REV. D2
SHEET 7 OF 16	



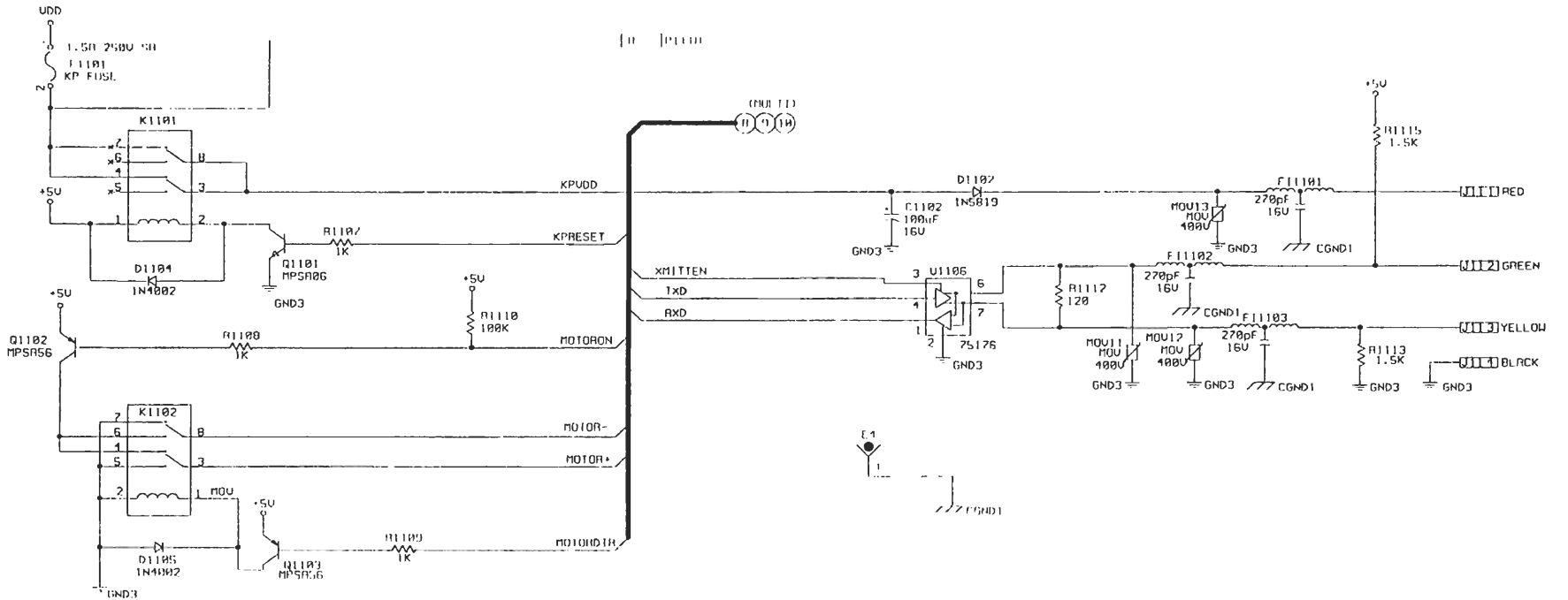
+5V
C800 10uF 16V
C801 0.1uF 50V
C806 0.1uF 50V
C807 0.1uF 50V
GND3
C802 10pF 50V
Y801 11MHZ
C803 10pF 50V
U800
MR RESET
RESET
NC
PF1 PFO
MAX707CPA
U801
VDD
AVCC
AVREF+
XTAL2
XTAL1
RESET
IR1
IR2
XMITEN
TXD
RXD
IR3
IR4
ACTRIGGERIN
MUTEIN
P111A
P106A
ZONE1
ZONE2
ZONE3
ZONE4
ZONE5
ZONE6
IRS
SCLOCK
SDATA1
SELECT1
SELECT2
SELECT3
VOLUMEPOT
ENABLE
IROUT
*RD
*WR
*PSEN
IRFILTER
IRWIDE
U904
74HC14
U802
74HC573
U803
27C512
U804
DS1244YN
ADDRA0-ADDRA15
AD0-AD7
ADDRA15
R811 10K
R801 10K
R802 10K
R803 10K
R804 10K
R805 10K
R806 100K
R807 100K
R808 100K
R809 100K
R810 100K
C805 10uF 16V
(MULTI)
PX600 BOARD 1
D2
SHEET 8 OF 16


(MULTI)
AUDIO1
AUDIO2
ADDRA0-ADDRA15
AD0-AD7
ENABLE
MOTOR-
MOTOR+
IRWIDE
FPIAFILTER
P11A 2
VOLUMEPOT
*RD
*WR
74HC08
74HC138
74HC245
74HC14
ADDRA15
*CSEN
ADDRA2
ADDRA1
ADDRA0
ADDRA4
LCDDISPLAY2
LEDS
BUTTON3
BUTTON2
BUTTON1
LCDDISPLAY1
LCDRS
GATEENABLE
FPD7
FPD6
FPD5
FPD4
FPD3
FPD2
FPD1
FPD0
IRWIDE2
IRINWIDE
IRINFILTERED
MOTOR
MOTOR+
VDD
-27V
+5V
GND3
270pF
16V
P6 23
P6 15
P6 14
P6 12
P6 20
P6 18
P6 11
P6 10
P6 9
P6 8
P6 7
P6 6
P6 5
P6 4
P6 3
P6 2
P6 13
P6 16
P6 17
P6 21
P6 22
P6 19
P6 1
P6 26
P6 25
P6 24
PX600 BOARD 1
D2
SHEET 9 OF 16
PX600 MAIN BOARD 4-13-98 11:38



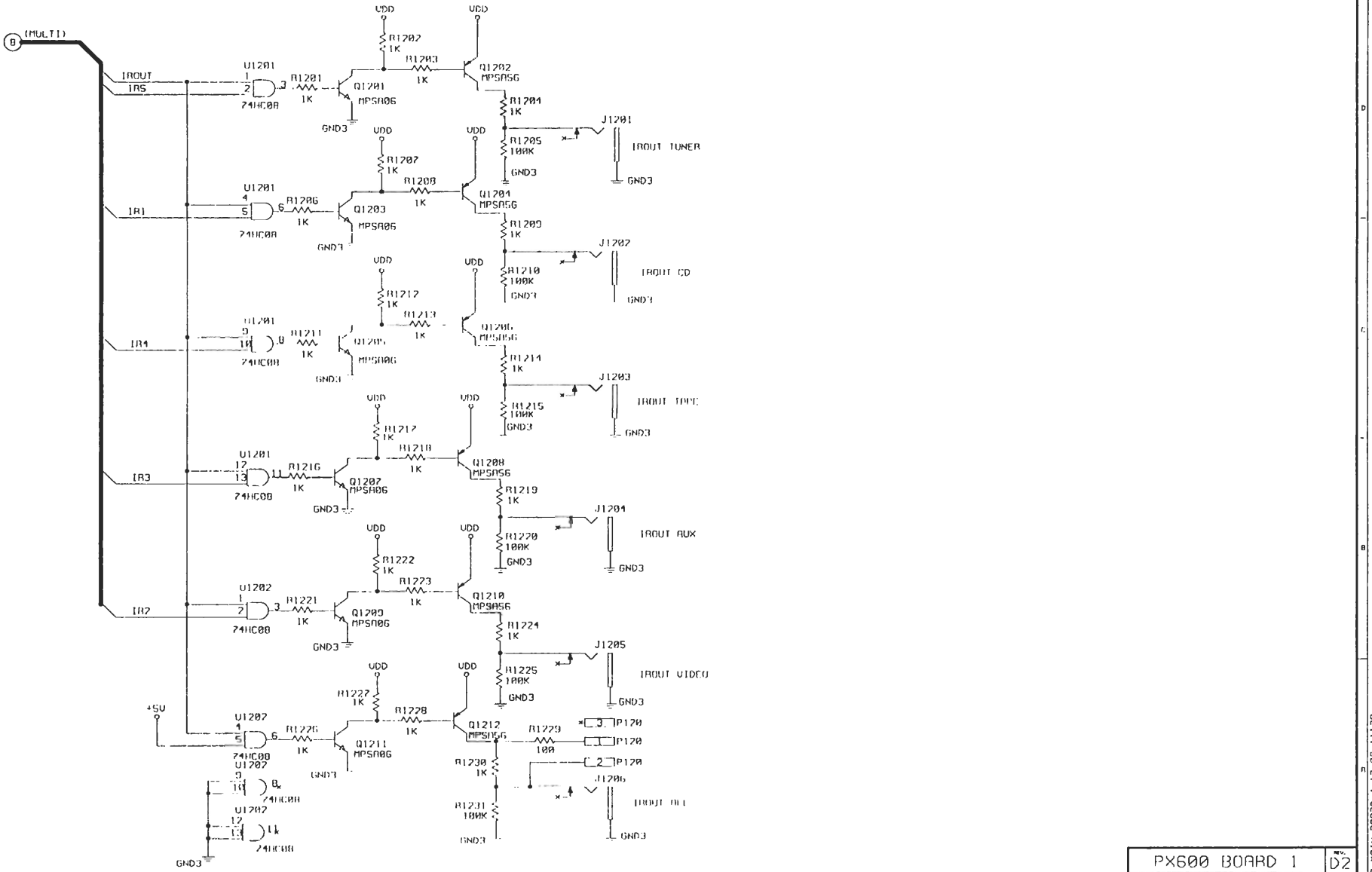
PX600 BOARD 1	REV. D2
SHEET 10 OF 16	

PX600 MAIN BOARD 4-18-96 11:32



PX600 BOARD 1	REV. D2
SHEET 11 OF 16	

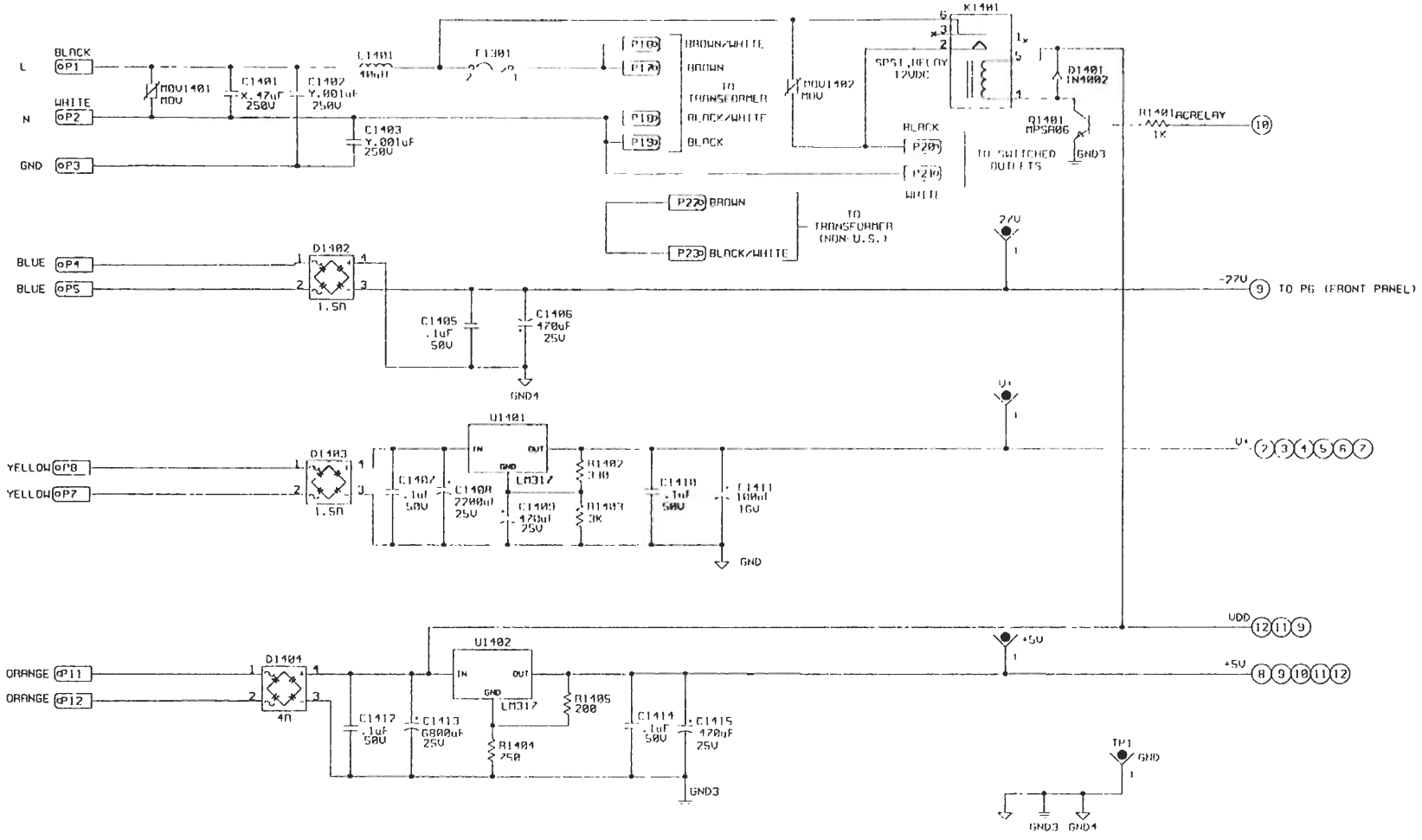
PX600 MAIN BOARD 4-19-95 ::::30



PX600 BOARD 1 | D2

SHEET 12 OF 16

PX600 MAIN BOARD 4-19-96 11:30

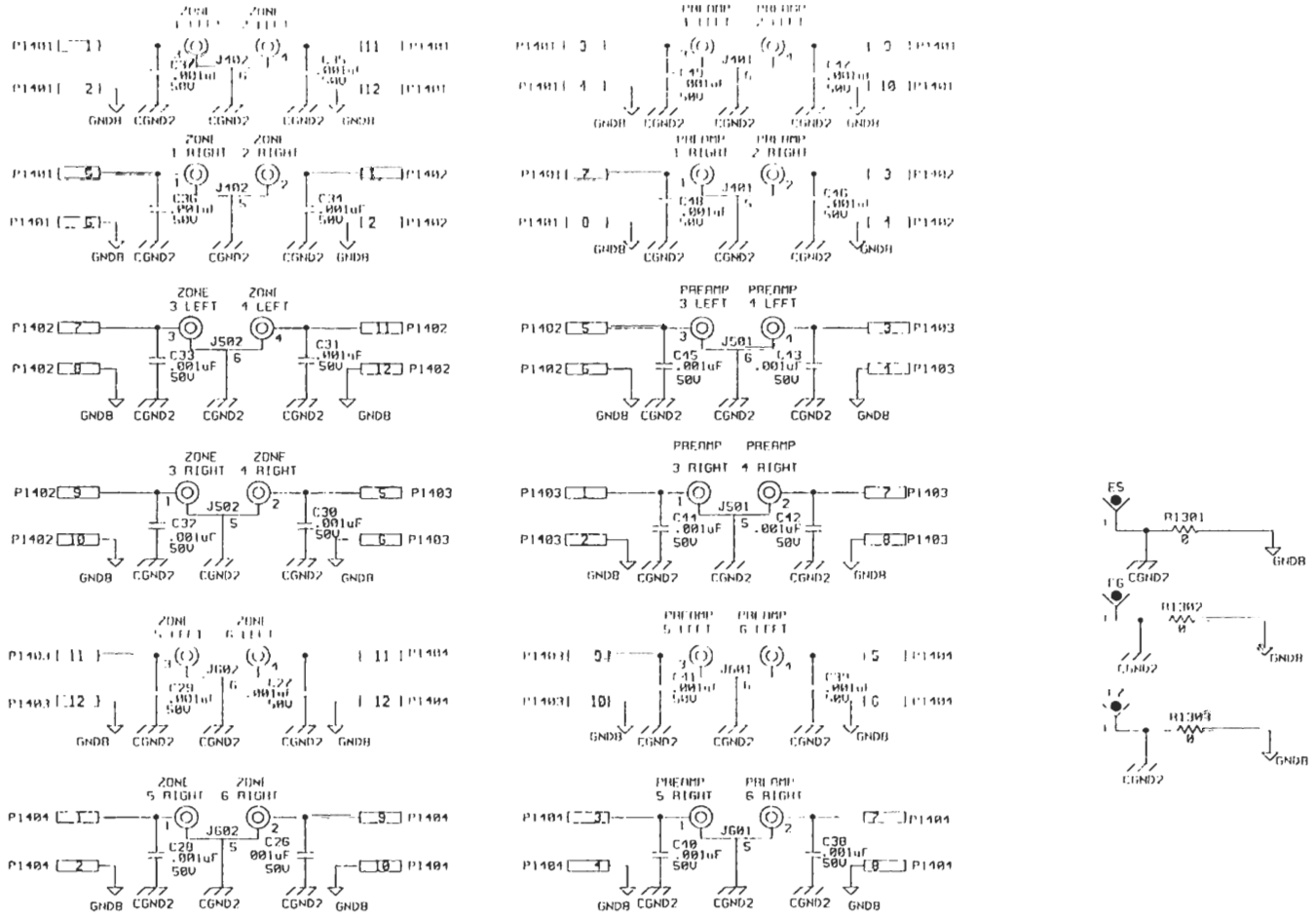


NOTE: F1301 US VERSION, .5A 125V SB PICO
F1301 NON-US VERSION, JUMPER

PX600 BOARD 1 REV D2

SHEET 13 OF 16

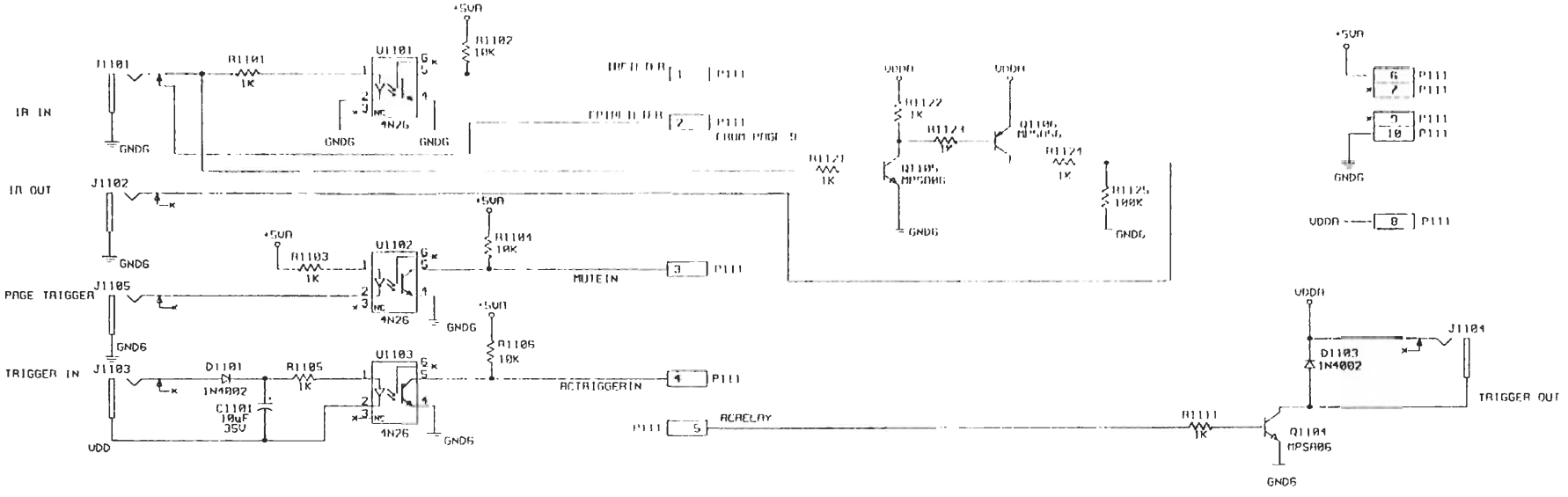
PX600 MAIN BOARD 4-18-96 11:30



PX600 BOARD 2 | D2

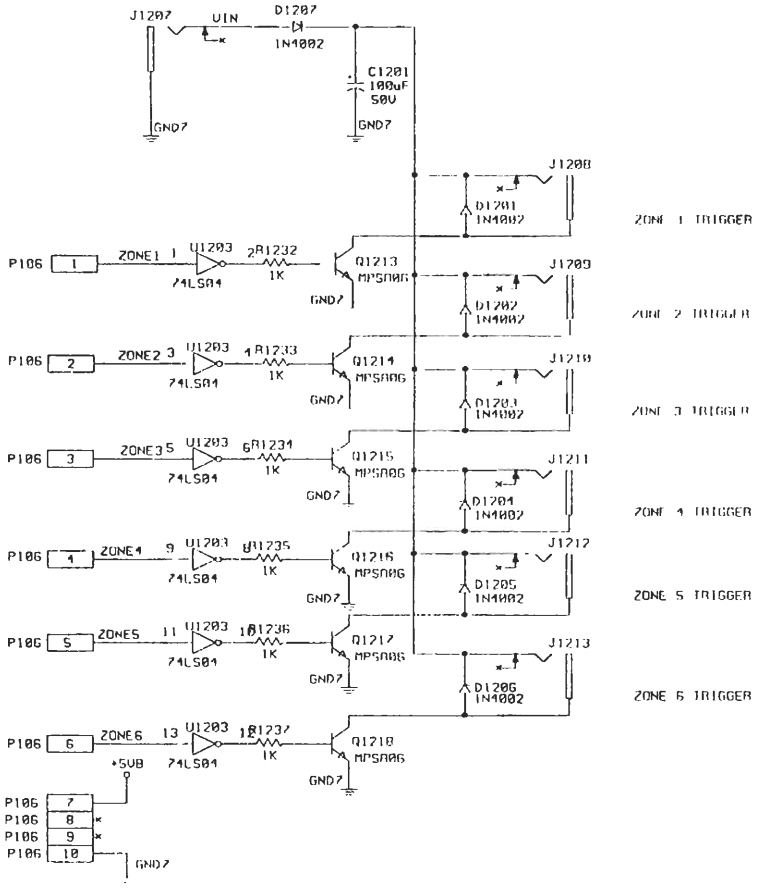
SHEET 14 of 16

PX600 MAIN BOARD 4-19-96 11:32



PX600 BOARD 2	REV. D2
SHEET 15 OF 16	

PX600 MAIN BOARD 4-18-95 11:38



PX600 BOARD 3

D2

SHEET 16 OF 16

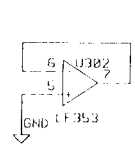
PX600 MAIN BOARD 4-13-98 11:30

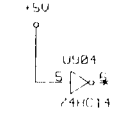
IC CHART

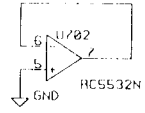
TYPE	VOLTAGE/PIN NO.				REFERENCE DESIGNATOR CHART	BYPASS CAP
	V+	AGND	+5V	DGND		
LF353	8	4	N/A	N/A	U201,U202,U203,U204,U301,U302,U403,	C101-C124
			N/A	N/A	U404,U407,U408,U409,U410,U503,U504,	
			N/A	N/A	U507,U508,U509,U510,U603,U604,U607,	
			N/A	N/A	U608,U609,U610	
NE5532AN	8	4	N/A	N/A	U701,U702	C125,C147
CD4052	SHOWN ON SCH		N/A	N/A	U401,U402,U501,U502,U601,U602	C140-C146
TEA6300	SHOWN ON SCH		N/A	N/A	U405,U406,U505,U506,U605,U606	SHOWN ON SCH
80C552	N/A	N/A	N/A	N/A	U801	SHOWN ON SCH
74HC573	N/A	N/A	20	10	U802	C126
MAX707CPA	N/A	N/A	2	3	U800	C127
27C512	N/A	N/A	28	14	U803	C128
DS1244YM-200	N/A	N/A	28	14	U804	C129
74HC138	N/A	N/A	16	8	U901	C130
74HC245	N/A	N/A	20	10	U902	C131
74HC08	N/A	N/A	14	7	U903,U1201,U1202	C132-C134
74HC14	N/A	N/A	14	7	U904	C135
74LS574	N/A	N/A	20	10	U1001,U1002	C136,C137
CD4051	N/A	N/A	16	8	U1003	C138
74LS04	N/A	N/A	+5VB 14	GND7 7	U1203	C139
7S176	N/A	N/A	8	5	U1106	

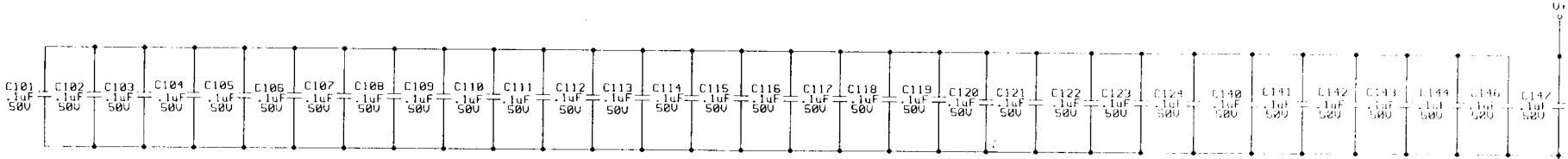
NOTES:

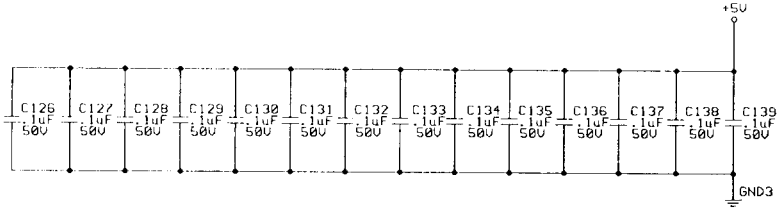
1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/8W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.











RELEASED FOR MANUFACTURE
BY 8/13/97

SIGNATURE		DATE
DRAWN	MILLE	7/06/94
DRFTG CHK	FSN	8/13/97
DESIGN CHK	MD	8/11/97

G00MBE1.SCH

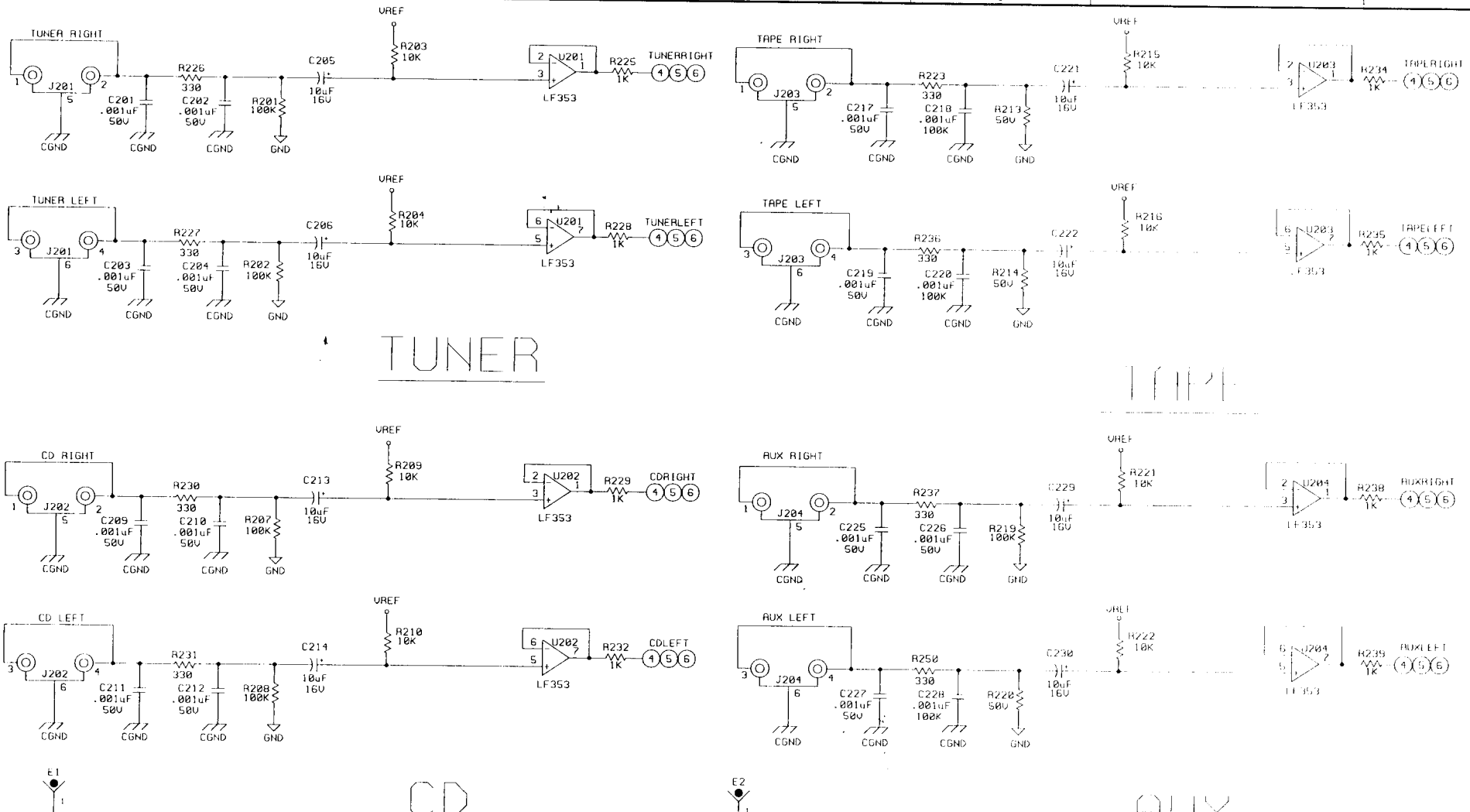
harman consumer group
digital entertainment product center
1308 Borregas Avenue
Sunnyvale, CA 94089-1001

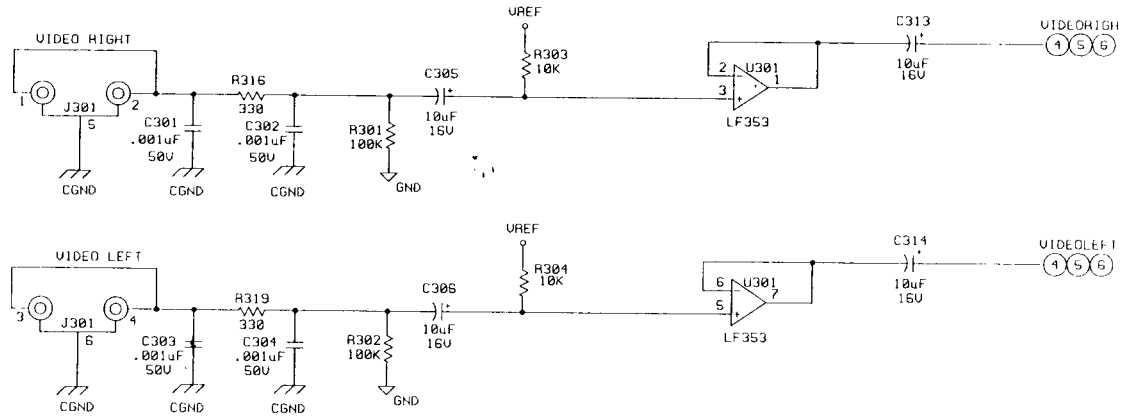
PX600 BOARD 1

DWG. NO. | REV. E1

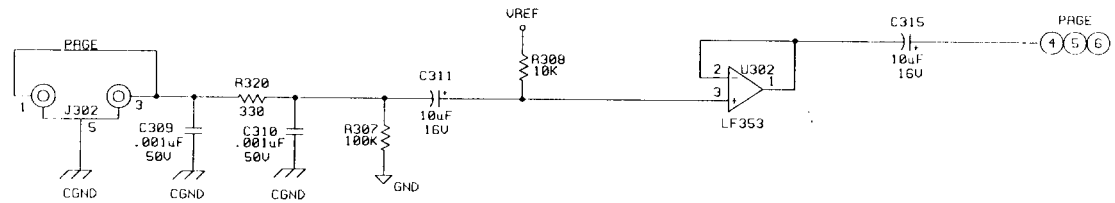
SHEET 1 OF 16

PX600 MAIN BOARD 8-13-97 6:45 A.M.


TUNER RIGHT
J201
R226 330
C201 .001uF 50V
C202 .001uF 50V
R201 100K
C205 10uF 16V
VREF
R203 10K
U201
LF353
R225 1K
TUNERRIGHT
TUNER LEFT
J201
R227 330
C203 .001uF 50V
C204 .001uF 50V
R202 100K
C206 10uF 16V
R204 10K
U201
LF353
R228 1K
TUNERLEFT
TUNER
TAPE RIGHT
J203
R223 330
C217 .001uF 50V
C218 .001uF 100K
R213 50V
C221 10uF 16V
R215 10K
U203
LF353
R234 1K
TAPERIGHT
TAPE LEFT
J203
R236 330
C219 .001uF 50V
C220 .001uF 100K
R214 50V
C222 10uF 16V
R216 10K
U203
LF353
R235 1K
TAPELEFT
TAPE
CD RIGHT
J202
R230 330
C209 .001uF 50V
C210 .001uF 50V
R207 100K
C213 10uF 16V
R209 10K
U202
LF353
R229 1K
CDRIGHT
CD LEFT
J202
R231 330
C211 .001uF 50V
C212 .001uF 50V
R208 100K
C214 10uF 16V
R210 10K
U202
LF353
R232 1K
CDLEFT
CD
E1
AUX RIGHT
J204
R237 330
C225 .001uF 50V
C226 .001uF 50V
R219 100K
C229 10uF 16V
R221 10K
U204
LF353
R238 1K
AUXRIGHT
AUX LEFT
J204
R250 330
C227 .001uF 50V
C228 .001uF 100K
R220 50V
C230 10uF 16V
R222 10K
U204
LF353
R239 1K
AUXLEFT
AUX
E2
CGND
GND
VREF
COPY
PX600 BOARD 1
SHEET 2 OF 16
E1
PX600 MAIN BOARD 8-13-97 6:45 A.M.



VIDEO



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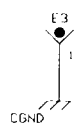
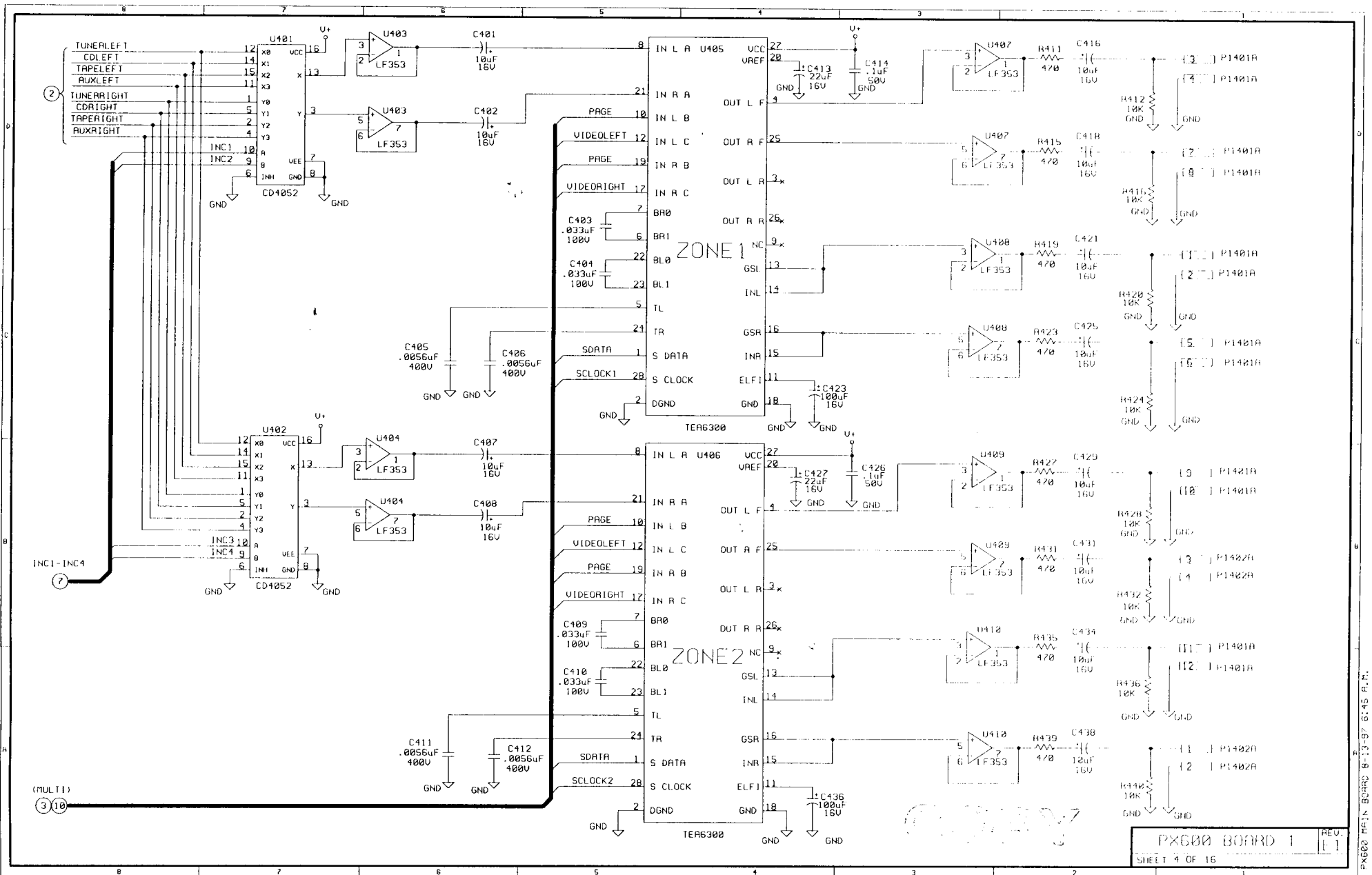
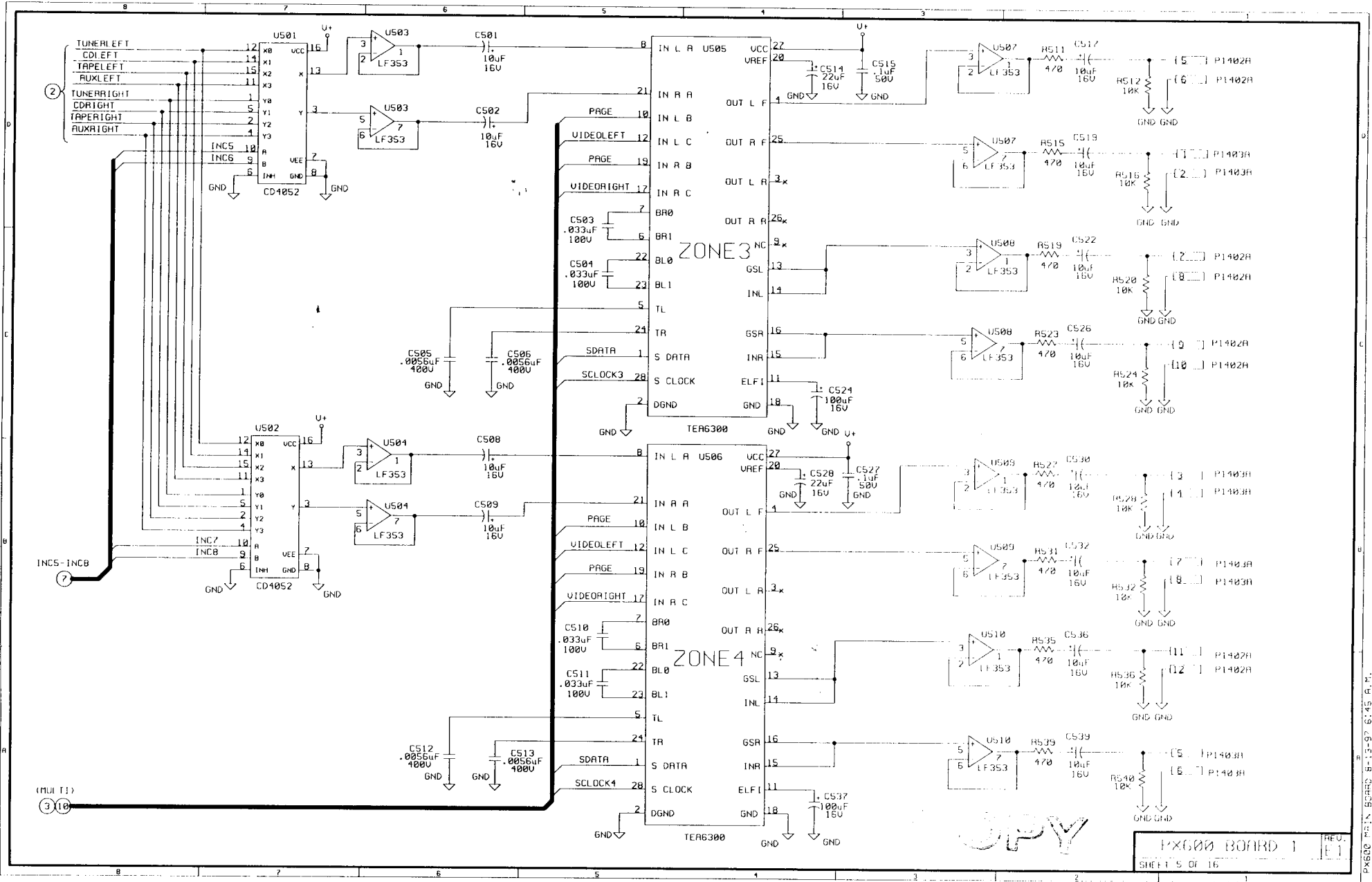
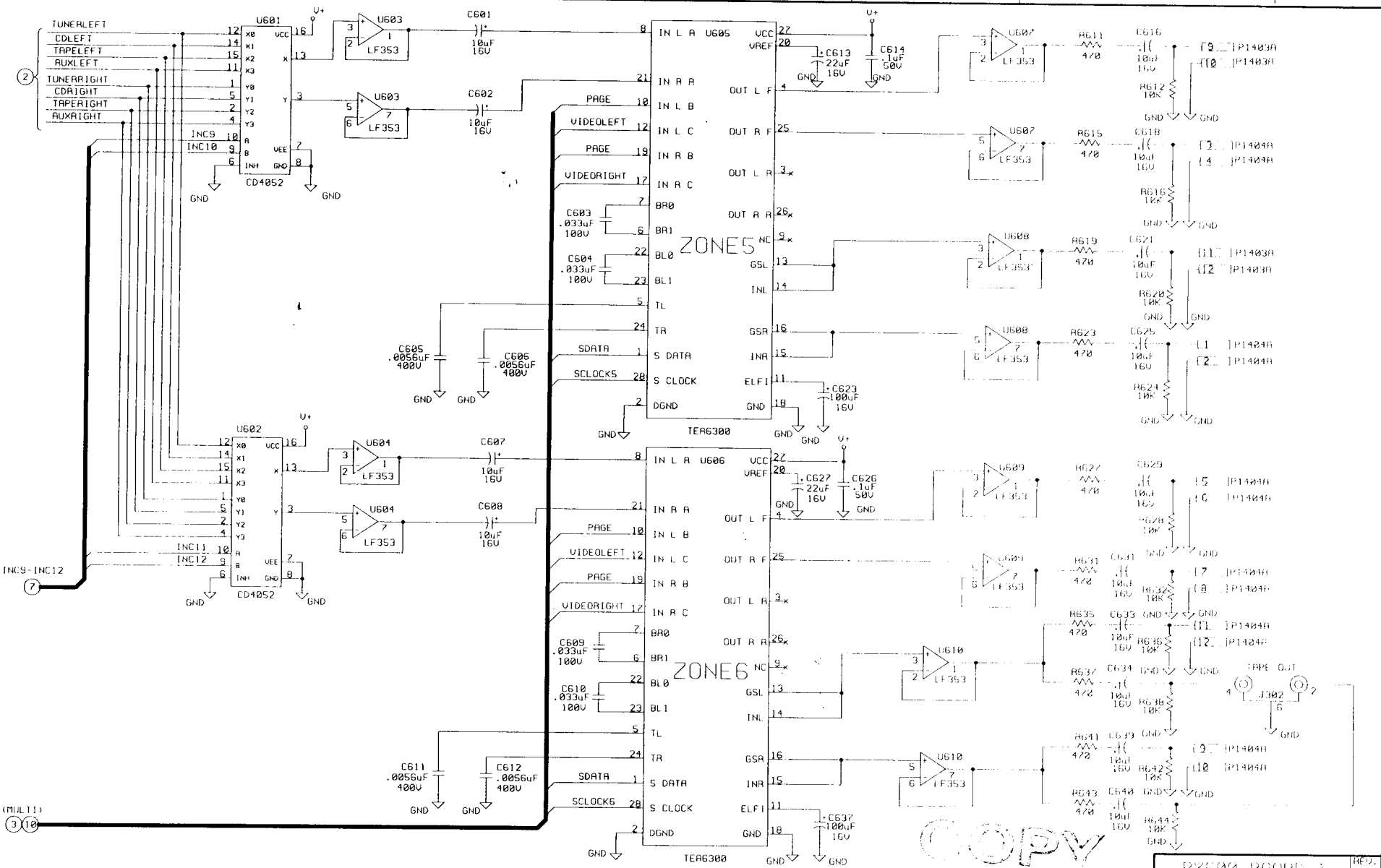


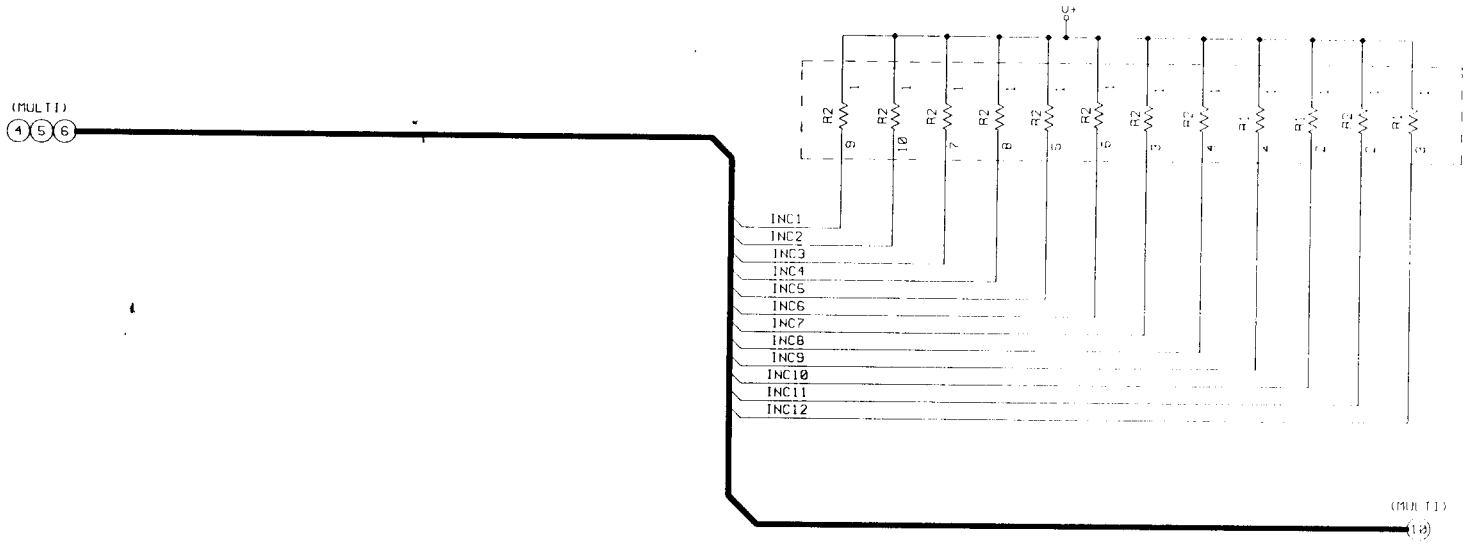
PX600 BOARD 1 | REV. F1
SHEET 3 OF 16

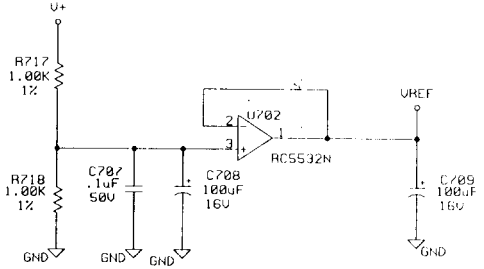
PX600 PRINT BOARD 8-13-97 6:45 A.M.


TUNERLEFT
CDLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC1
INC2
INC3
INC4
INC1-INC4
(MULTI)
U401
U402
CD4052
U403
U404
LF353
C401
C402
C407
C408
10uF 16V
U405
U406
TEA6300
ZONE 1
ZONE 2
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK1
SCLOCK2
C403 .033uF 100V
C404 .033uF 100V
C405 .0056uF 400V
C406 .0056uF 400V
C409 .033uF 100V
C410 .033uF 100V
C411 .0056uF 400V
C412 .0056uF 400V
C413 22uF 16V
C414 .1uF 50V
C423 100uF 16V
C426 .1uF 50V
C427 22uF 16V
C436 100uF 16V
U407
U408
U409
U410
R411 470
R412 10K
R415 470
R416 10K
R419 470
R420 10K
R423 470
R424 10K
R427 470
R428 10K
R431 470
R432 10K
R435 470
R436 10K
R439 470
R440 10K
C416 10uF 16V
C418 10uF 16V
C421 10uF 16V
C425 10uF 16V
C429 10uF 16V
C431 10uF 16V
C434 10uF 16V
C438 10uF 16V
P1401A
P1402A
GND
V+
PX600 BOARD 1
REV. E1
SHEET 4 OF 16
PX600 MAIN BOARD 8-13-97 6:45 A.M.


TUNERLEFT
CDLEFT
TAPELEFT
AUXLEFT
TUNERRIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
INC5
INC6
INC7
INC8
INC5-INC8
(MULTI)
U501
U502
CD4052
U503
U504
LF353
C501
C502
C503
C504
C505
C506
C508
C509
C510
C511
C512
C513
.033uF 100V
.0056uF 400V
10uF 16V
U505
U506
TEA6300
ZONE3
ZONE4
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK3
SCLOCK4
IN L A
IN R A
IN L B
IN L C
IN R B
IN R C
BR0
BR1
BL0
BL1
TL
TR
S DATA
S CLOCK
DGND
VCC
VREF
OUT L F
OUT R F
OUT L A
OUT R A
NC
GSL
INL
GSR
INR
ELFI
GND
C514 22uF 16V
C515 .1uF 50V
C517
C519
C522
C526
C530
C532
C536
C539
C524 100uF 16V
C527 .1uF 50V
C528 22uF 16V
C537 100uF 16V
U507
U508
U509
U510
R511 470
R512 10K
R515 470
R516 10K
R519 470
R520 10K
R523 470
R524 10K
R529 470
R528 10K
R531 470
R532 10K
R535 470
R536 10K
R539 470
R540 10K
P1402A
P1403A
V+
GND
PX600 BOARD 1
REV. E1
SHEET 5 OF 16
PX600 MAIN BOARD 8-13-97 6:45 A.M.


TUNERLEFT
CDLEFT
TAPELEFT
AUXLEFT
TUNERIGHT
CDRIGHT
TAPERIGHT
AUXRIGHT
U601
CD4052
U602
CD4052
U603
LF353
U604
LF353
C601
10uF 16V
C602
10uF 16V
C603 .033uF 100V
C604 .033uF 100V
C605 .0056uF 400V
C606 .0056uF 400V
C607
10uF 16V
C608
10uF 16V
C609 .033uF 100V
C610 .033uF 100V
C611 .0056uF 400V
C612 .0056uF 400V
U605
TEA6300
U606
TEA6300
ZONE5
ZONE6
PAGE
VIDEOLEFT
VIDEORIGHT
SDATA
SCLOCK5
SCLOCK6
C613 22uF 16V
C614 .1uF 50V
C623 100uF 16V
C626 .1uF 50V
C627 22uF 16V
C637 100uF 16V
U607
U608
U609
U610
R611 470
R612 10K
R615 470
R616 10K
R619 470
R620 10K
R623 470
R624 10K
R627 470
R628 10K
R631 470
R632 10K
R635 470
R636 10K
R637 470
R638 10K
R641 470
R642 10K
R643 470
R644 10K
C616 10uF 16V
C618 10uF 16V
C621 10uF 16V
C625 10uF 16V
C629 10uF 16V
C631 10uF 16V
C633 10uF 16V
C634 10uF 16V
C639 10uF 16V
C640 10uF 16V
J302
TAPE OUT
INC9-INC12
(MULTI)
GND
V+
COPY
PX600 BOARD 1
REV. 1
SHEET 5 OF 16
PX600 MAIN BOARD 6-13-97 6:45 A.M.

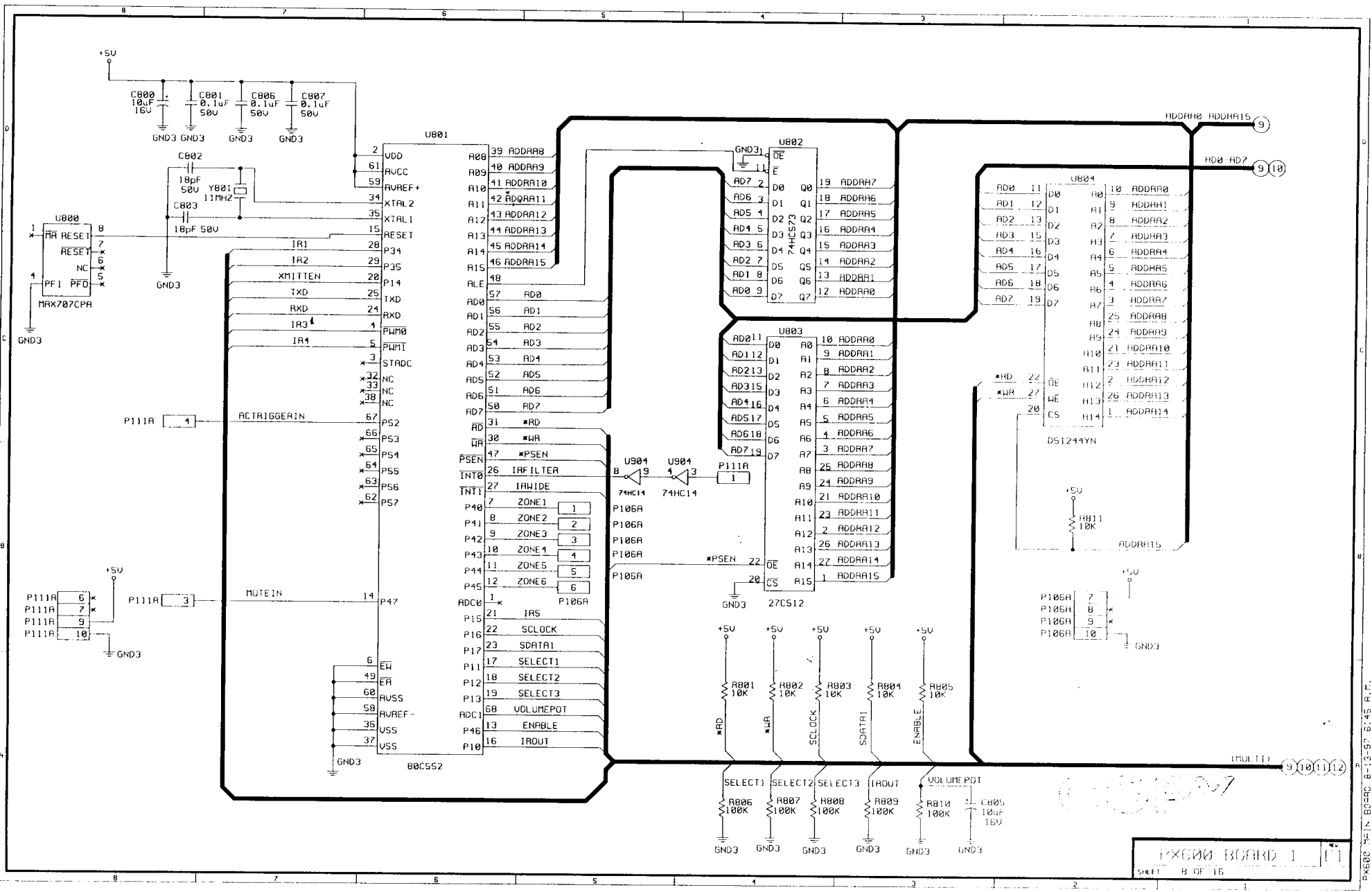


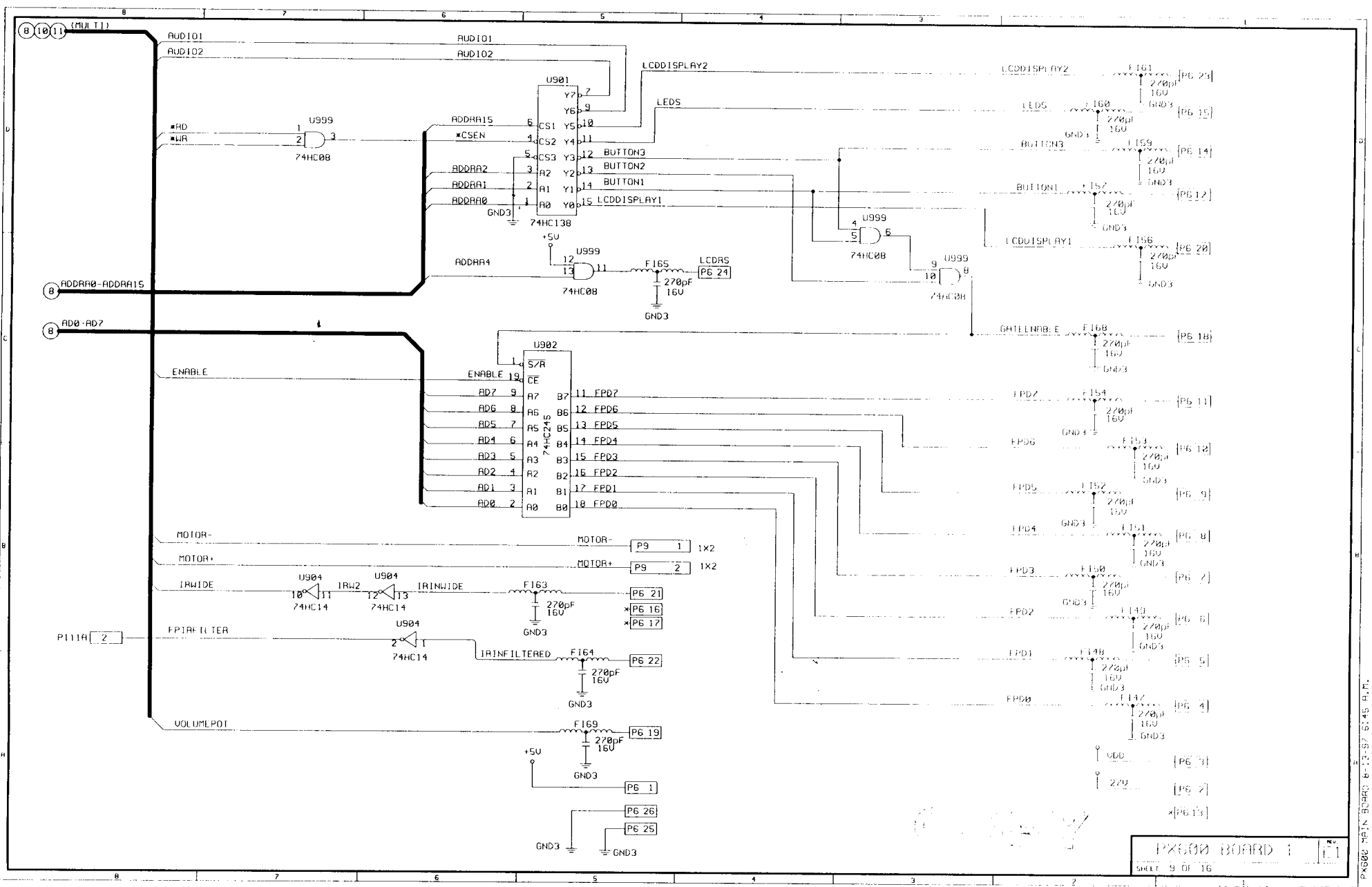


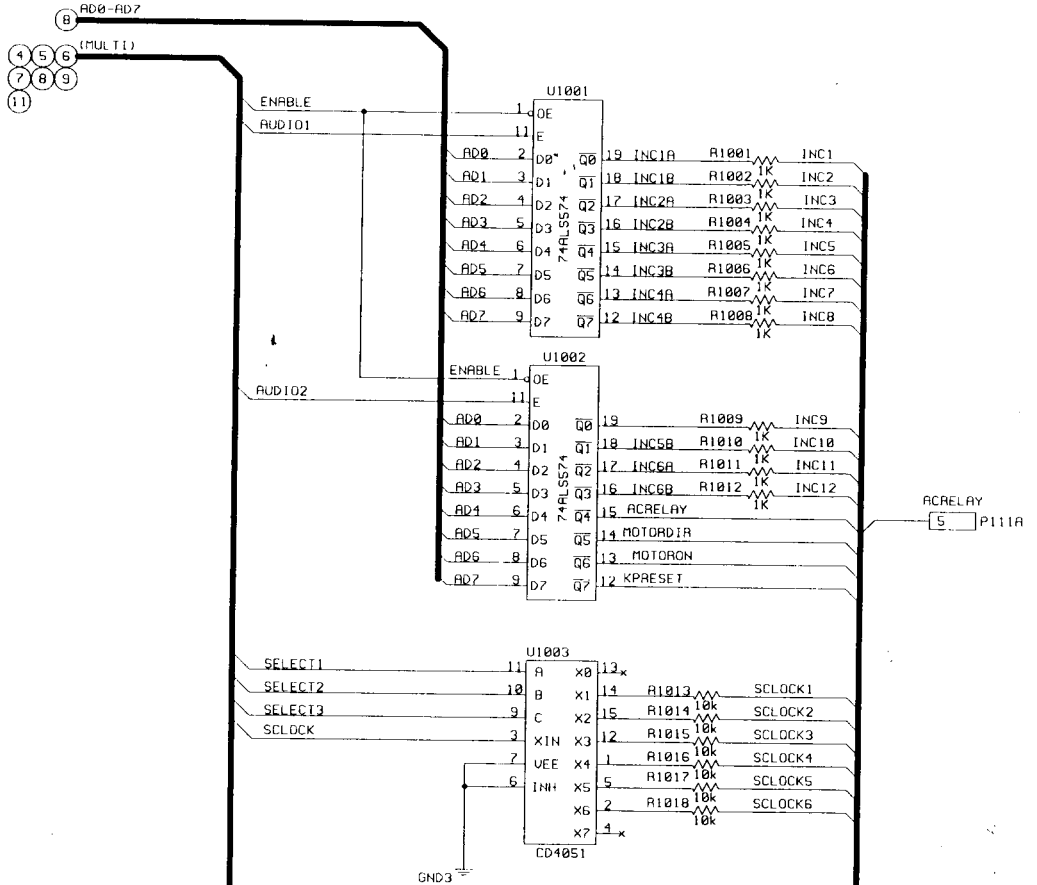
PX600 BOARD 1

SHEET 2 OF 16

PX600 MAIN BOARD A-13-97 6:45 A.M.


+5V
C800 10uF 16V
C801 0.1uF 50V
C806 0.1uF 50V
C807 0.1uF 50V
GND3
C802 18pF 50V
Y801 11MHZ
C803 18pF 50V
U800
MAX707CPA
MR RESET
RESET
NC
PFI PFO
U801
80C552
VDD
AVCC
AVREF+
XTAL2
XTAL1
RESET
P34
P35
P14
TXD
RXD
PWM0
PWM1
STADC
NC
P52
P53
P54
P55
P56
P57
EW
EA
AVSS
AVREF-
VSS
P47
P10
P15
P16
P17
P11
P12
P13
P46
ADC0
ADC1
A08
A09
A10
A11
A12
A13
A14
A15
ALE
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
RD
WR
PSEN
INT0
INT1
P40
P41
P42
P43
P44
P45
IR1
IR2
XMITTEN
IR3
IR4
ACTRIGGERIN
MUTEIN
IRFILTER
IRWIDE
ZONE1
ZONE2
ZONE3
ZONE4
ZONE5
ZONE6
IR5
SCLOCK
SDATA1
SELECT1
SELECT2
SELECT3
VOLUMEPOT
ENABLE
IROUT
ADDRA8
ADDRA9
ADDRA10
ADDRA11
ADDRA12
ADDRA13
ADDRA14
ADDRA15
U802
74HCS73
U803
27C512
U804
DS1244YN
U904
74HC14
OE
CS
WE
RD
WR
R801 10K
R802 10K
R803 10K
R804 10K
R805 10K
R806 100K
R807 100K
R808 100K
R809 100K
R810 100K
R811 10K
C805 10uF 16V
P111A
P106A
ADDRA0 ADDRA15
AD0-AD7
MULTI
PX600 BOARD 1
SHEET 8 OF 16
PX600 MAIN BOARD 8-13-97 6:45 A.M.

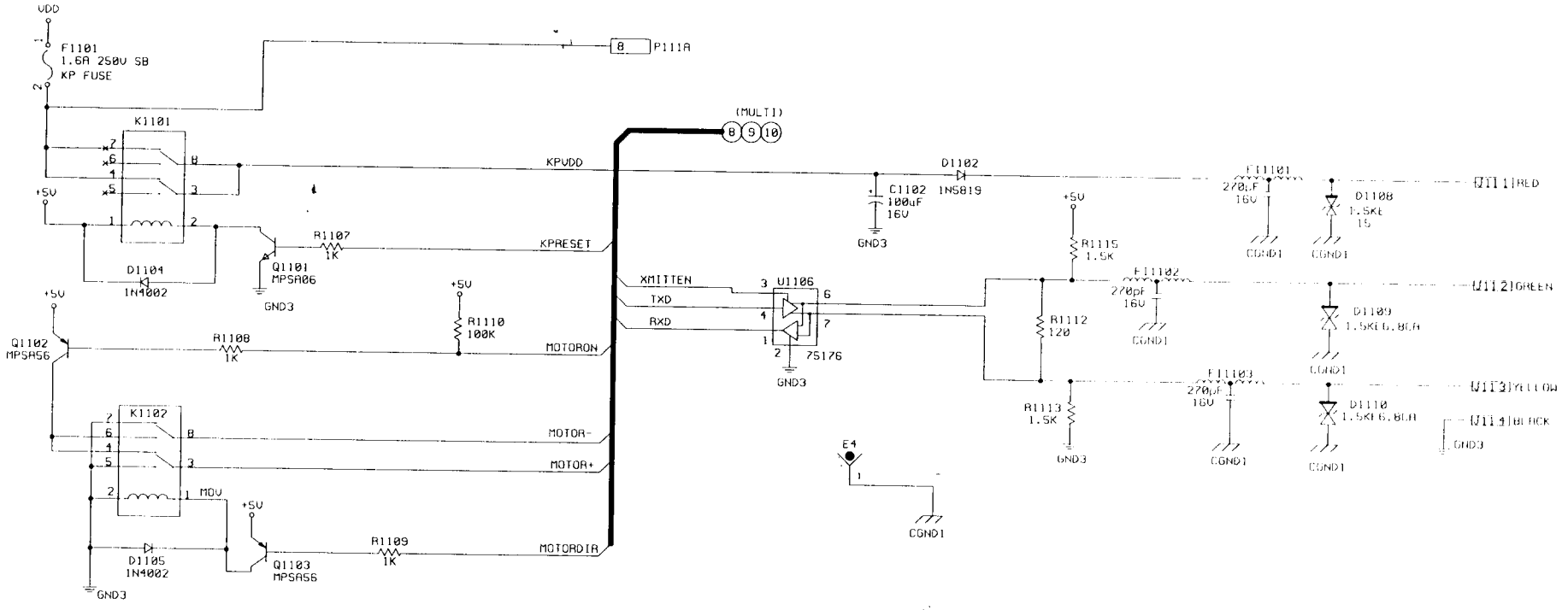

(MULTI)
AUDIO1
AUDIO2
*RD
*WR
74HC08
U999
U901
*CSEN
ADDRA15
ADDRA2
ADDRA1
ADDRA0
74HC138
GND3
+5V
ADDRA4
LCDRS
FI65
270pF
16V
P6 24
ADDRA0-ADDRA15
AD0-AD7
U902
74HC245
ENABLE
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
FPD7
FPD6
FPD5
FPD4
FPD3
FPD2
FPD1
FPD0
LCDDISPLAY2
LEDS
BUTTON3
BUTTON2
BUTTON1
LCDDISPLAY1
GATEENABLE
MOTOR-
MOTOR+
P9 1
P9 2
1X2
IRWIDE
IRW2
IRINWIDE
74HC14
FI63
P6 21
P6 16
P6 17
P111A 2
FPIRFILTER
IRINFILTERED
FI64
P6 22
VOLUMEPOT
FI69
P6 19
P6 1
P6 26
P6 25
FI61
FI60
FI59
FI52
FI56
FI68
FI54
FI53
FI52
FI51
FI50
FI49
FI48
FI47
P6 23
P6 15
P6 14
P6 12
P6 20
P6 18
P6 11
P6 10
P6 9
P6 8
P6 7
P6 6
P6 5
P6 4
VDD
P6 3
220
P6 2
P6 13
PX600 BOARD 1
REV. E1
SHEET 9 OF 16
PX600 MAIN BOARD 8-13-97 5:45 P.M.



PX600 BOARD 1

SHEET 10 OF 16

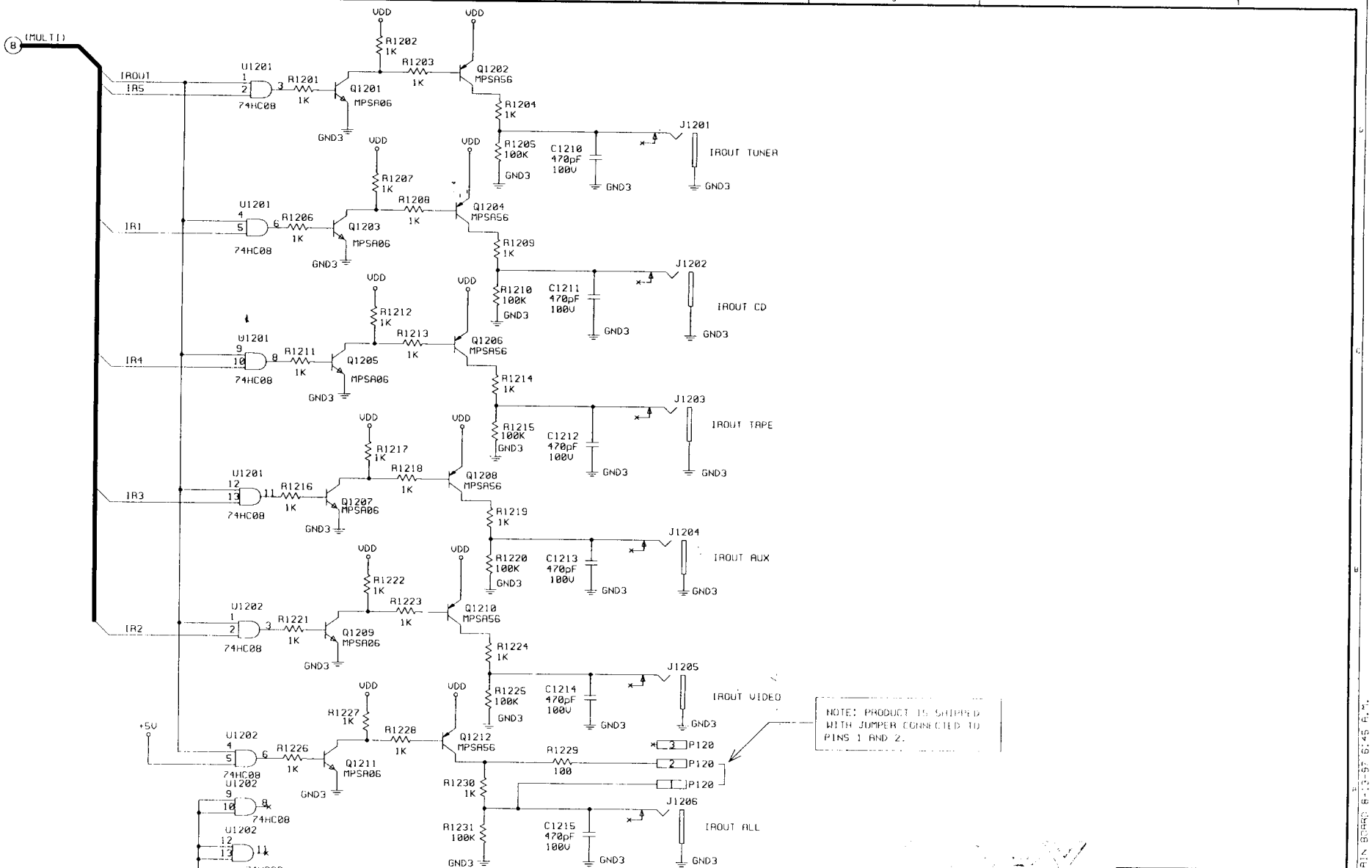
PX600 MAIN BOARD 8-13-97 6:45 A.M.



NOTE: F1101 US VERSION: 1.6 AMP, 250V, SB, UL/CSA APPROVED.
F1101 NON US VERSION: 1.6 AMP, 250V, SEMKO APPROVED.

PX600 BOARD 1 | REV E1
SHEET 11 OF 16

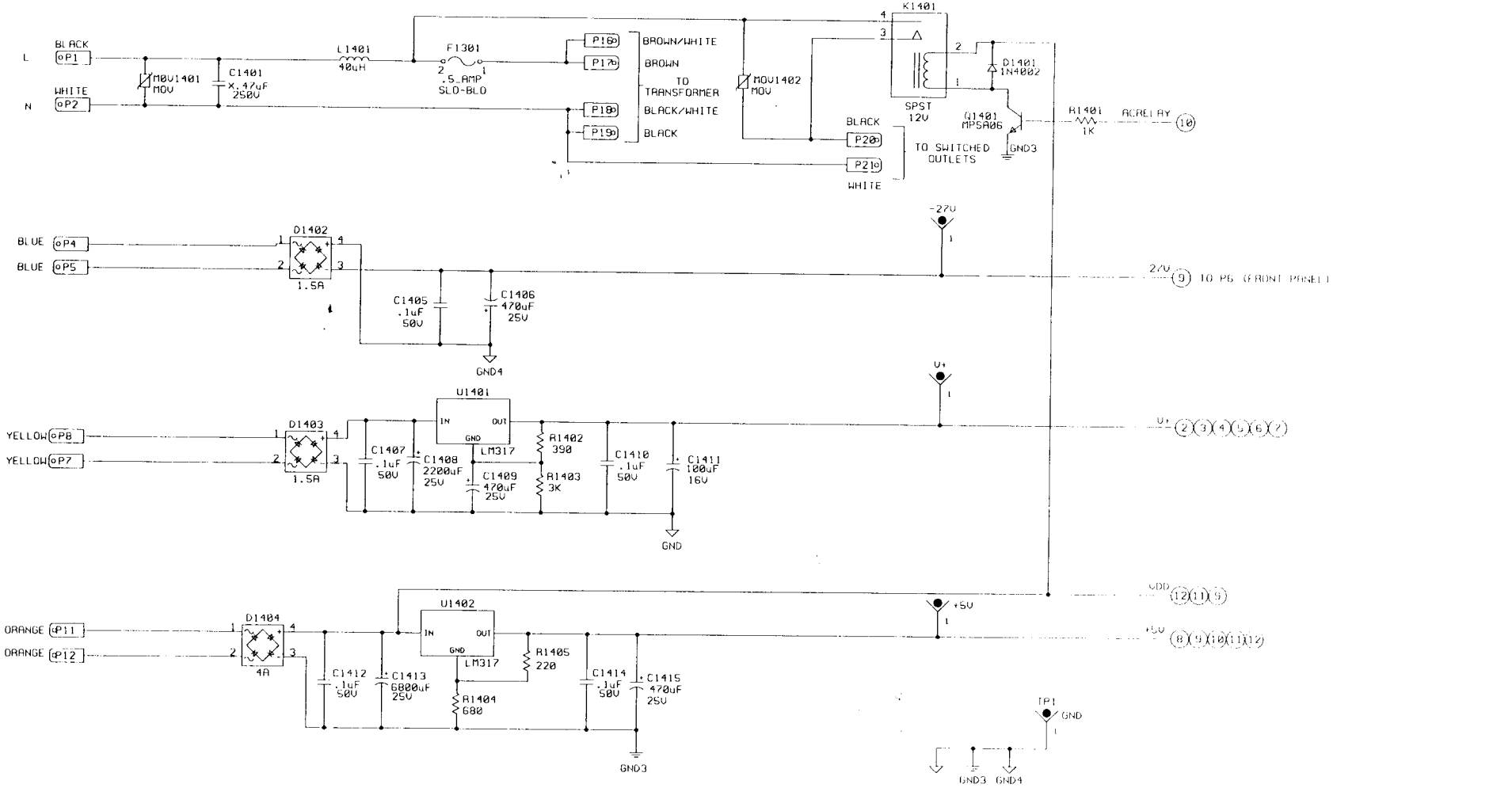
PX600 MAIN BOARD 8-13-97 6:45 A.M.



PX600 BOARD 1

SHEET 12 OF 16

PX600 MAIN BOARD 8/13/97 6:45 P.M.

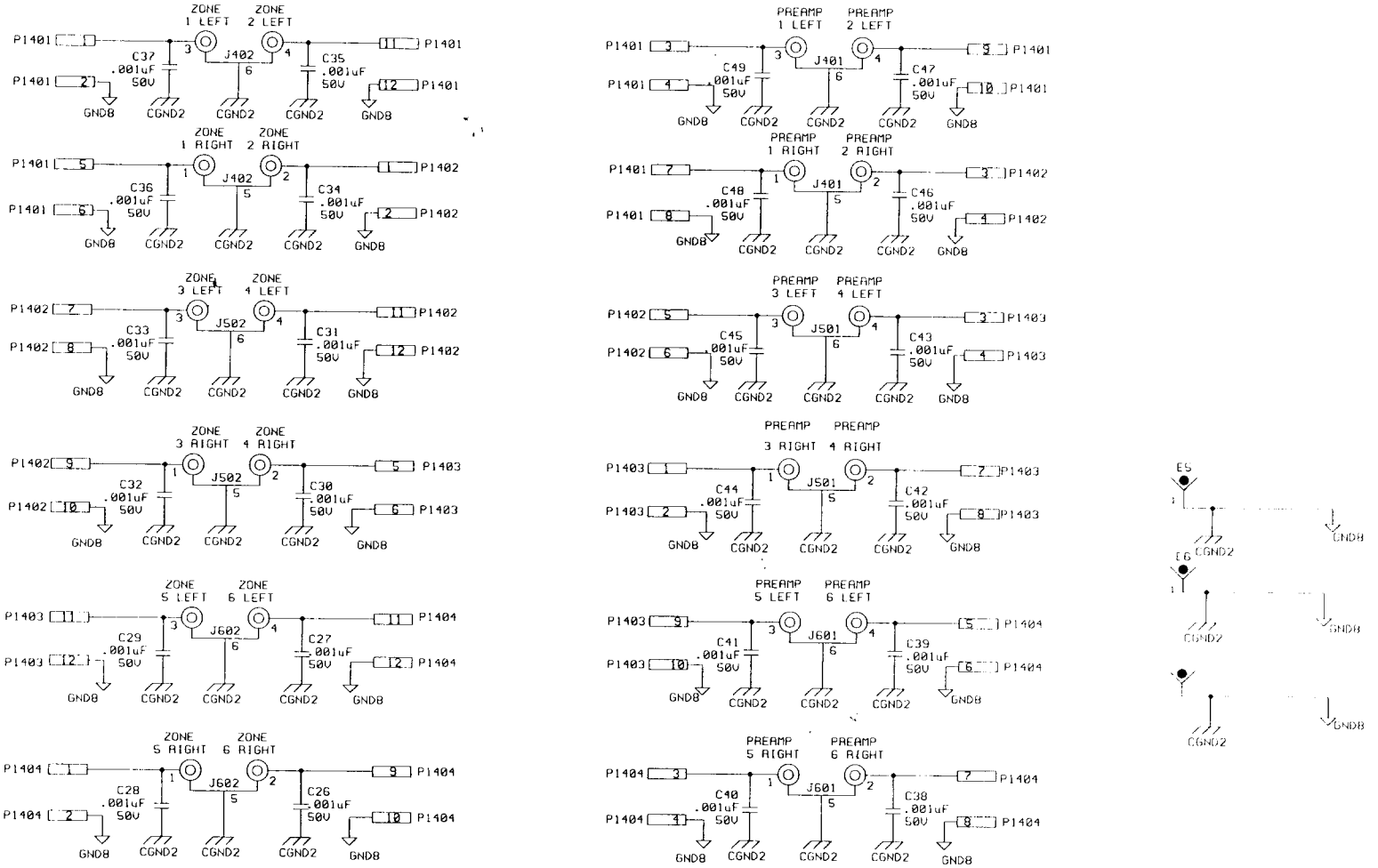


NOTE: F1301 US VERSION: .5 AMP, 250V, SB, UL/CSA APPROVED.
F1301 NON US VERSION: .5 AMP, 250V, SEMKO APPROVED.

PX600 BOARD 1

SHEET 13 OF 16

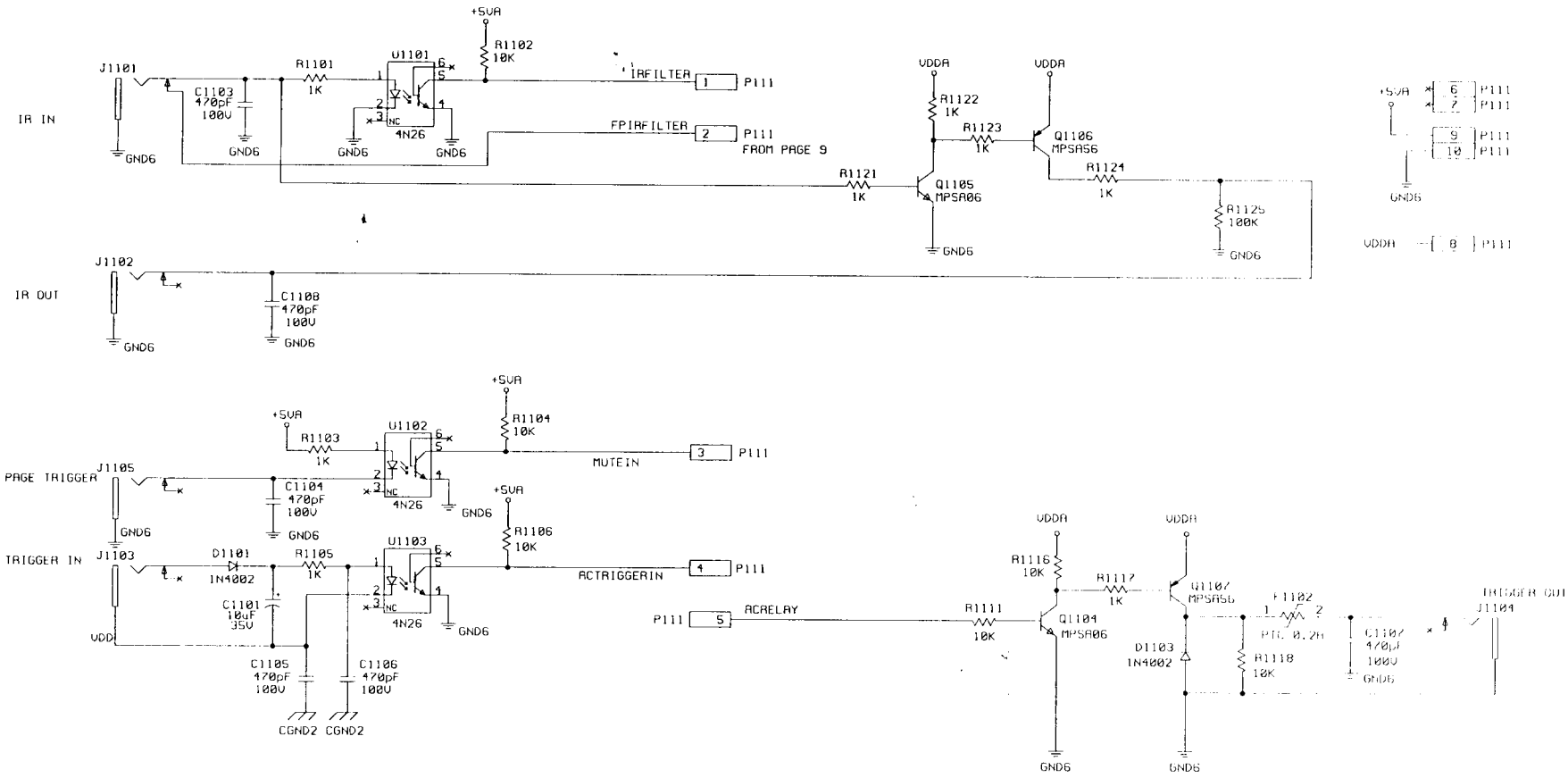
PX600 MAIN BOARD 8-13-97 6:45 p.m.



PX600 BOARD 2 | REV. E1

SHEET 14 OF 16

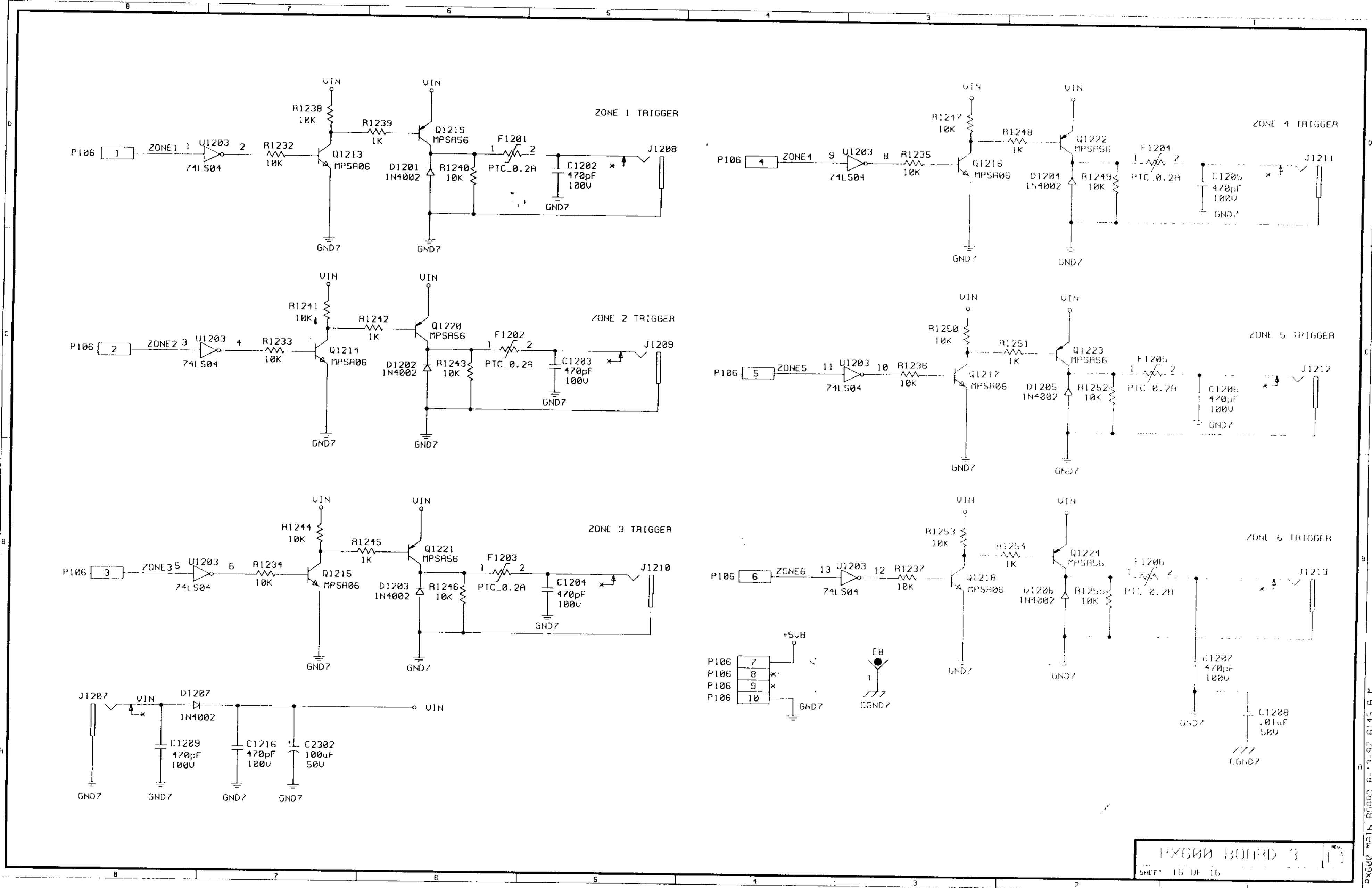
PX600 MAIN BOARD 8-13-97 6:45 A.M.

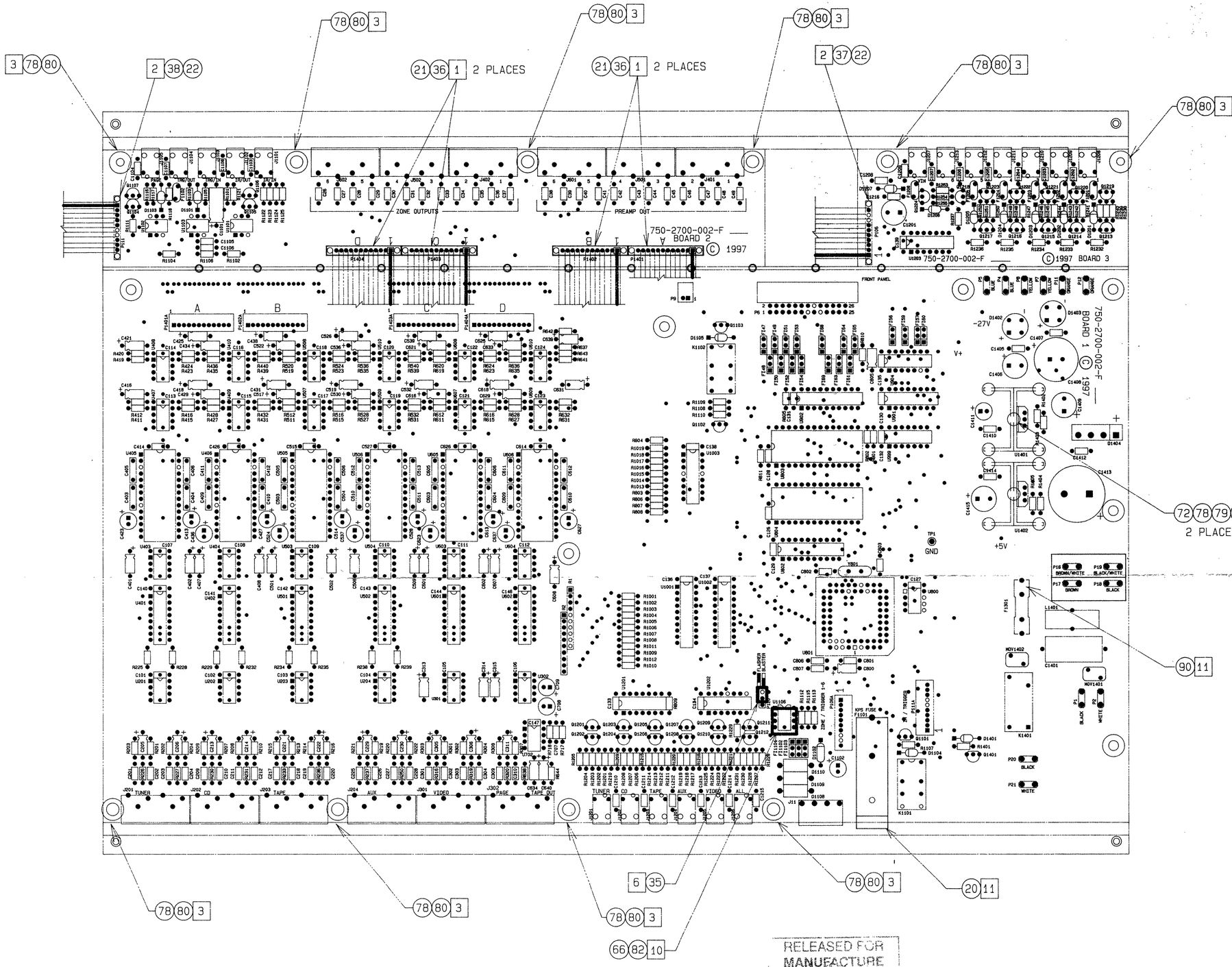


PX600 BOARD 2 | REV F1

SHEET 15 OF 16

PX600 MAIN BOARD 6-13-97 6:45 P.M.


ZONE 1 TRIGGER
ZONE 2 TRIGGER
ZONE 3 TRIGGER
ZONE 4 TRIGGER
ZONE 5 TRIGGER
ZONE 6 TRIGGER
VIN
GND7
CGND7
+5VB
E8
P106
ZONE1
ZONE2
ZONE3
ZONE4
ZONE5
ZONE6
U1203
74LS04
R1232 10K
R1233 10K
R1234 10K
R1235 10K
R1236 10K
R1237 10K
R1238 10K
R1239 1K
R1240 10K
R1241 10K
R1242 1K
R1243 10K
R1244 10K
R1245 1K
R1246 10K
R1247 10K
R1248 1K
R1249 10K
R1250 10K
R1251 1K
R1252 10K
R1253 10K
R1254 1K
R1255 10K
Q1213 MPSA06
Q1214 MPSA06
Q1215 MPSA06
Q1216 MPSA06
Q1217 MPSA06
Q1218 MPSA06
Q1219 MPSA56
Q1220 MPSA56
Q1221 MPSA56
Q1222 MPSA56
Q1223 MPSA56
Q1224 MPSA56
D1201 1N4002
D1202 1N4002
D1203 1N4002
D1204 1N4002
D1205 1N4002
D1206 1N4002
D1207 1N4002
F1201 PTC_0.2A
F1202 PTC_0.2A
F1203 PTC_0.2A
F1204 PTC_0.2A
F1205 PTC_0.2A
F1206 PTC_0.2A
C1202 470pF 100V
C1203 470pF 100V
C1204 470pF 100V
C1205 470pF 100V
C1206 470pF 100V
C1207 470pF 100V
C1208 .01uF 50V
C1209 470pF 100V
C1216 470pF 100V
C2302 100uF 50V
J1207
J1208
J1209
J1210
J1211
J1212
J1213
PX600 BOARD 3
SHEET 16 OF 16
PX602 MAIN BOARD 8-13-97 6:45 A.M.

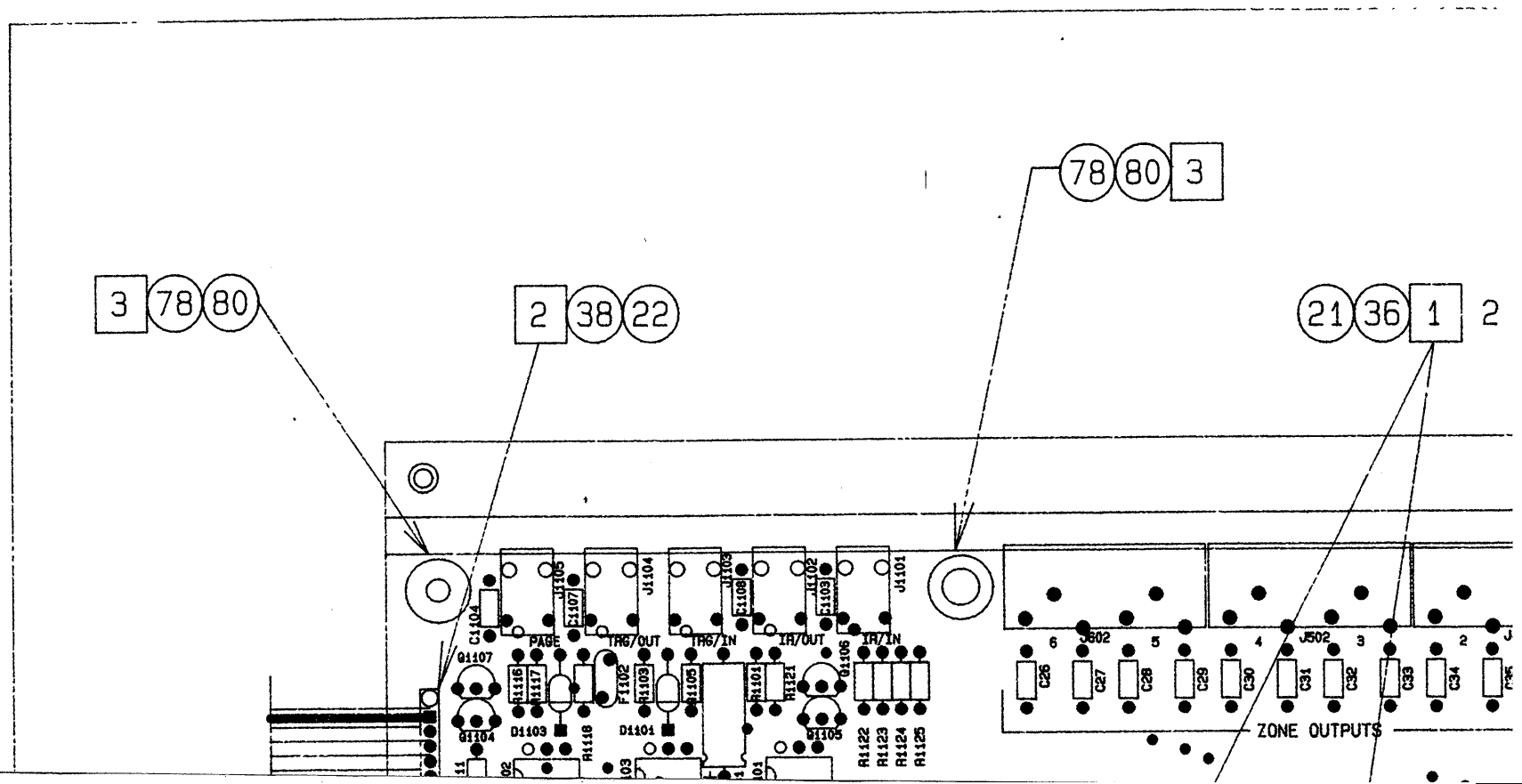


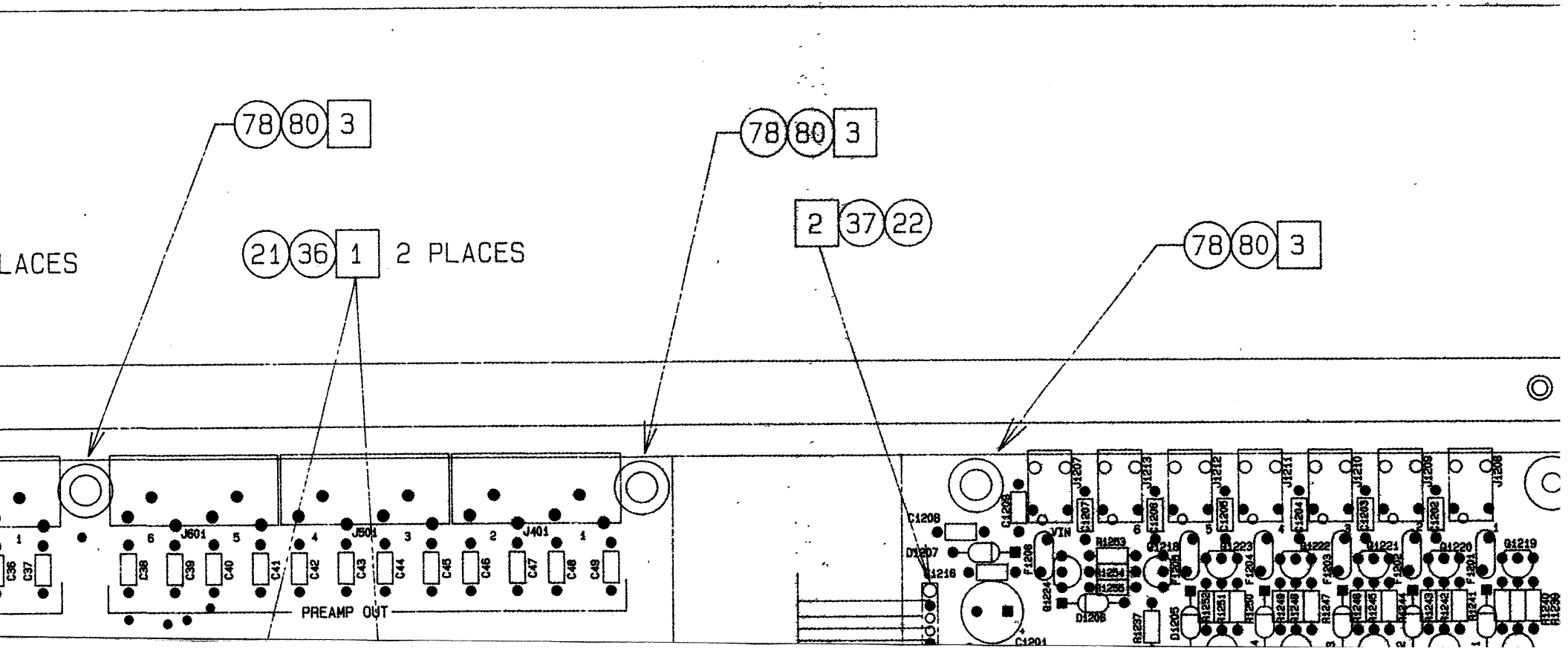
NOTES:

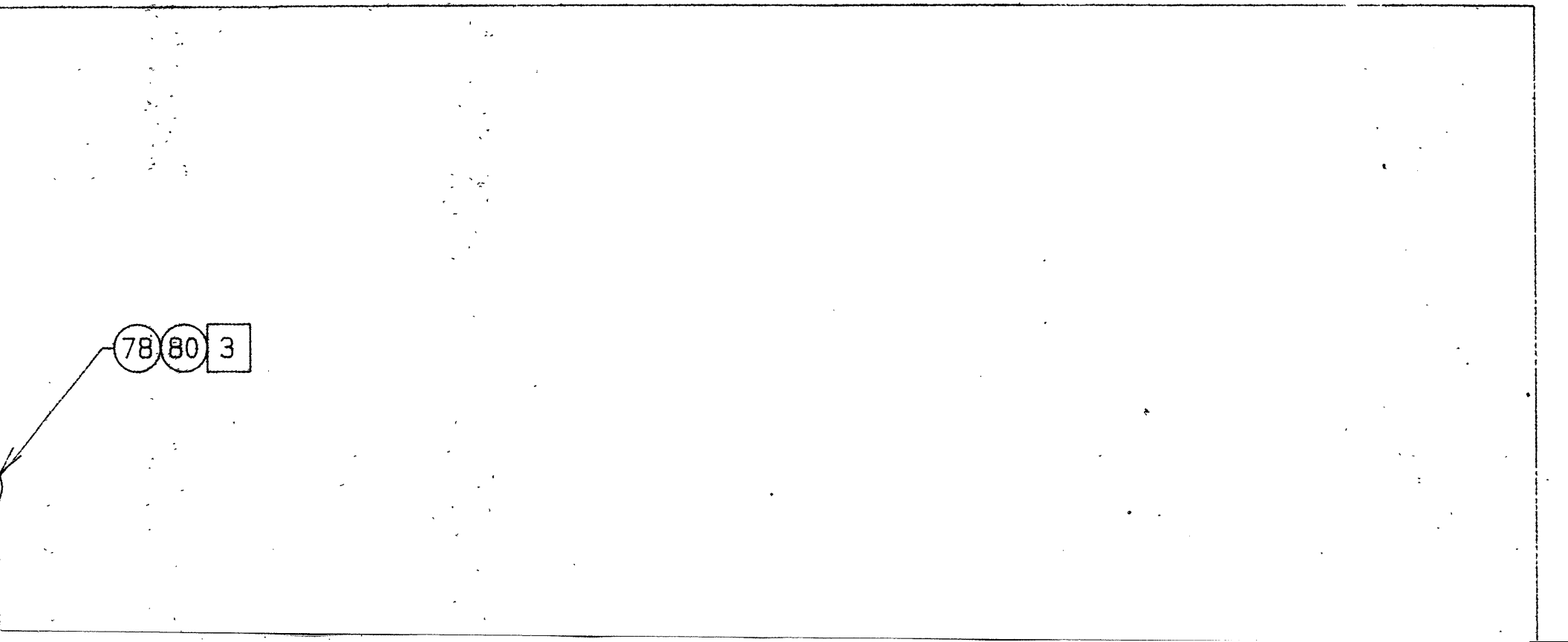
1. ONE END OF EACH 12 PIN RIBBON CABLE SHOULD BE INSTALLED IN A MOLEX 51048-1200 RIBBON CABLE HOLDER AND SOLDERED TO THE PC BOARD. OBSERVE PIN 1 POLARITY. STRIPE ON CABLE SHOULD BE VISIBLE WHEN CABLE IS ORIENTED AS SHOWN ON DRAWING.
2. ONE END OF EACH 10 PIN RIBBON CABLE SHOULD BE INSTALLED IN A MOLEX 51048-1000 RIBBON CABLE HOLDER AND SOLDERED TO THE PC BOARD. OBSERVE PIN 1 POLARITY. STRIPE ON CABLE SHOULD BE VISIBLE WHEN CABLE IS ORIENTED AS SHOWN ON DRAWING.
3. RIGHT ANGLE BRACKETS SHOULD BE MOUNTED WITH THE LONG LEG (WITH OFFSET HOLE) TOWARD THE PCB.
4. THE SECTIONS OF THE PCB SHOULD NOT BE BROKEN APART.
5. TWO HEATSINKS TO BE INSTALLED AT U1401 AND U1402 SEE PARTS LIST.
6. INSTALL SHUNT JUMPER ON THE FRONT TWO PINS (FLASHER POSITION)
7. SQUARE PADS ON THRU HOLE PARTS (ie, CONNECTORS, DIPS, SIPS) DENOTES PIN 1.
8. ASSEMBLE AND SOLDER PER ANSI/IPC-A-610A.
9. ALL BOARDS REQUIRE A COMPLETE AND THOROUGH VISUAL INSPECTION.
10. INSTALL ONE, 8 PIN DIP SOCKET AT U1106 ON COMPONENT SIDE OF PCB. INSTALL ONE, IC DS75176BN IN SOCKET AT U1106.
11. DO NOT INSTALL FUSE.

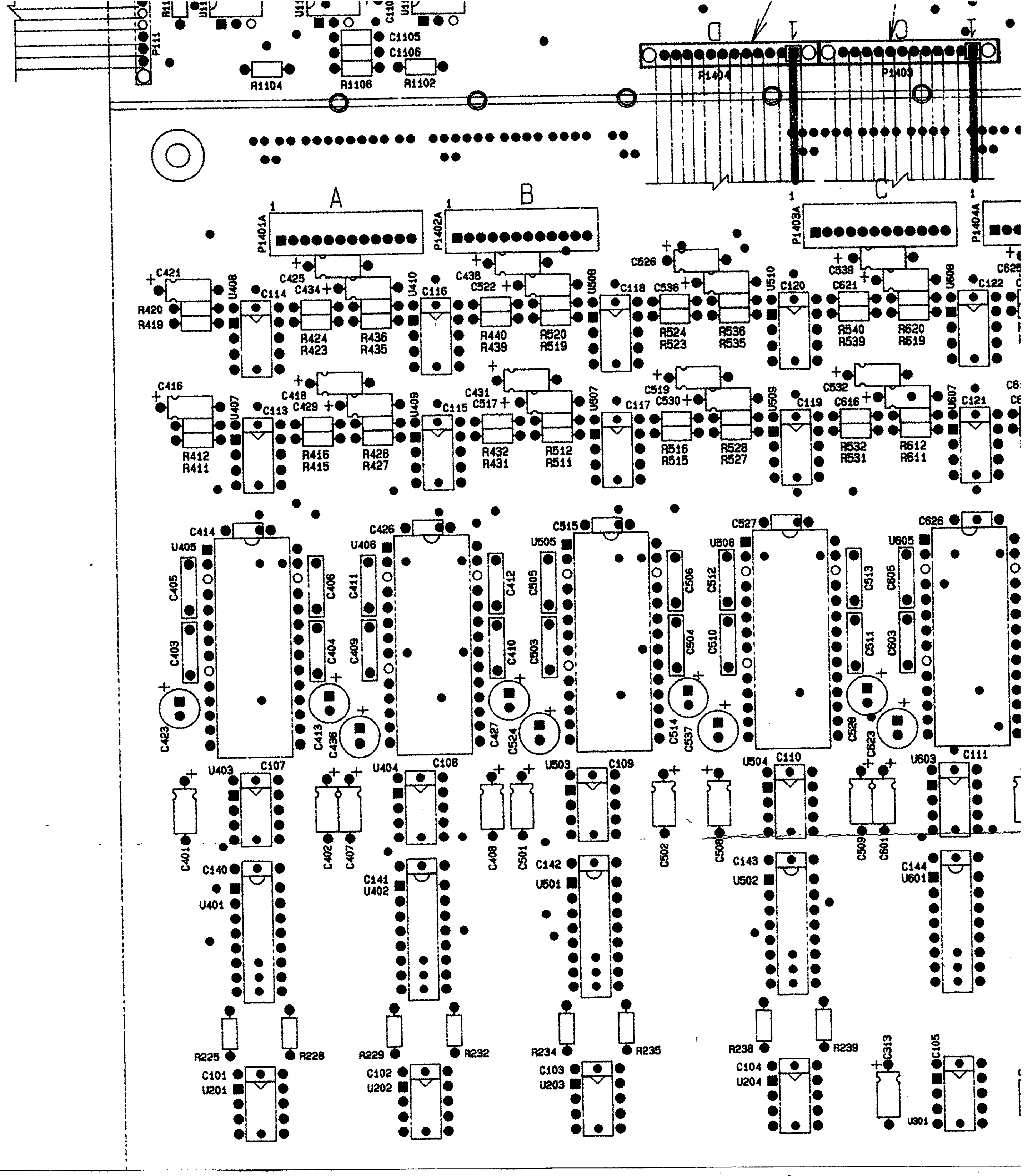
RELEASED FOR MANUFACTURE
BY

HARMAN CONSUMER GROUP DIGITAL ENTERTAINMENT PRODUCT CENTER 1308 BORREGAS AVE. SUNNYVALE, CA 94089 (408) 542-8800	LAYER: SILKSCREEN
PX600 MAIN BOARD ASSEMBLY	COPY
926-0600-000 REV F0	
DATE: JUNE 26, 1997	
DRAWN BY: LAURIE MIILLE	


3 78 80
2 38 22
78 80 3
21 36 1 2
PAGE
TR6/OUT
TR6/IN
IR/OUT
IR/IN
J502
ZONE OUTPUTS


78 80 3
78 80 3
2 37 22
78 80 3
21 36 1 2 PLACES
LACES
J601
J501
J401
PREAMP OUT
VIN


78
80
3



P111
C1105
C1106
R1104
R1108
R1102
P1404
P1403
A
B
C
D
P1401A
P1402A
P1403A
P1404A
C421
C425
C434
C438
C522
C526
C536
C539
C621
C625
R420
R419
U408
C114
R424
R423
R436
R435
U410
C116
R440
R439
R520
R519
U508
C118
R524
R523
R536
R535
U510
C120
R540
R539
R620
R619
U608
C122
C416
C418
C429
C431
C517
C519
C530
C532
C616
R412
R411
U407
C113
R416
R415
R428
R427
U409
C115
R432
R431
R512
R511
U507
C117
R516
R515
R528
R527
U509
C119
R532
R531
R612
R611
U607
C121
C414
U405
C405
C403
C406
C404
C423
C413
C426
U406
C411
C409
C436
C412
C410
C427
C515
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C503
C524
C506
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C514
C527
U506
C512
C510
C537
C513
C511
C528
C626
U605
C605
C603
C623
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C110
U603
C111
C401
C402
C407
C408
C501
C502
C508
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C601
C140
U401
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R229
R232
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C102
U202
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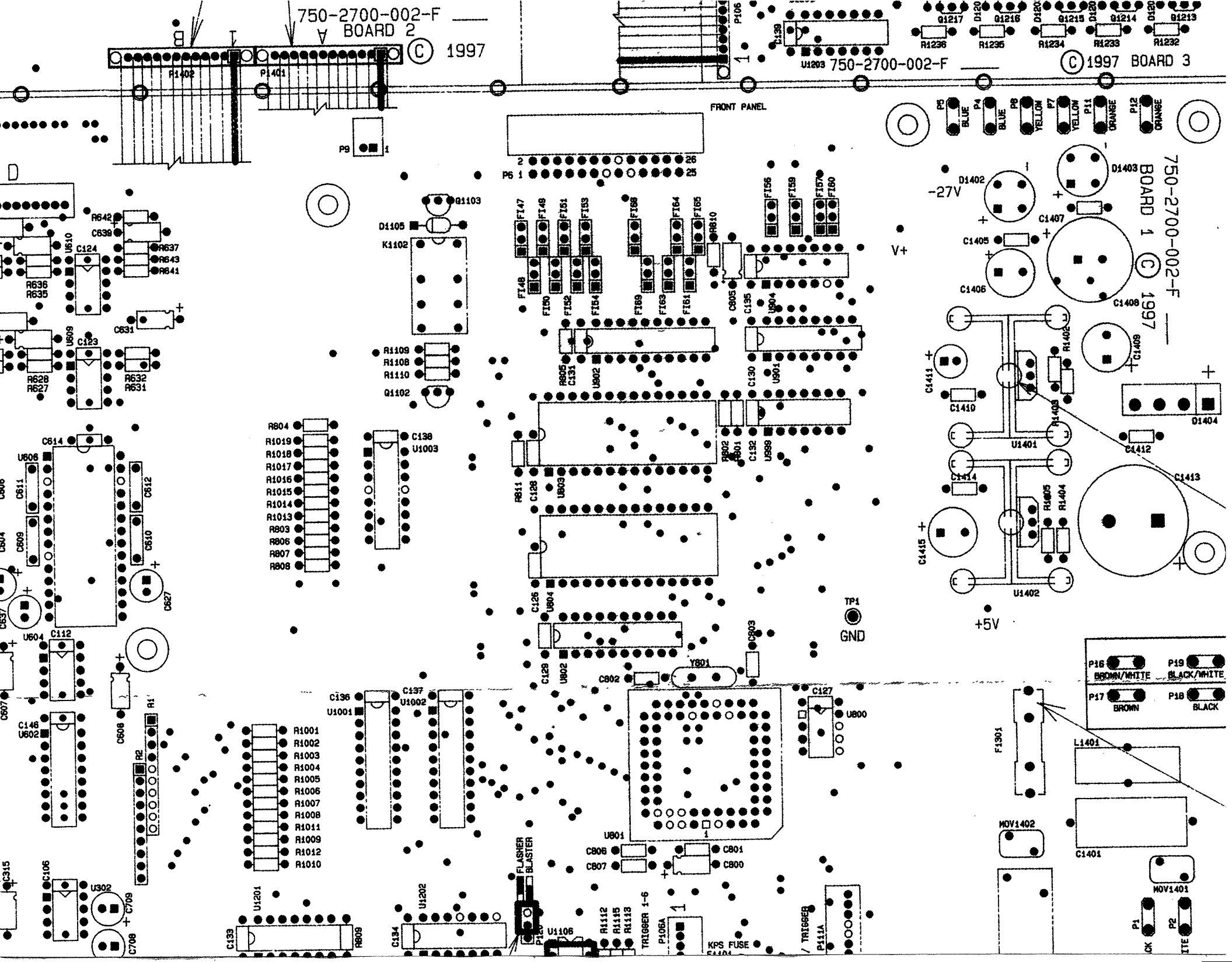
C104
U204
C313
C105
U301


750-2700-002-F
BOARD 2
© 1997
P1402
P1401
P106
U1203 750-2700-002-F
© 1997 BOARD 3
Q1217
Q1216
Q1215
Q1214
Q1213
R1236
R1235
R1234
R1233
R1232
FRONT PANEL
P5 BLUE
P4 BLUE
P8 YELLOW
P7 YELLOW
P11 ORANGE
P12 ORANGE
P9
P6
750-2700-002-F
BOARD 1 © 1997
-27V
D1402
D1403
C1407
C1405
C1406
C1408
C1409
C1411
C1410
C1412
C1414
C1413
C1415
D1404
U1401
U1402
R1402
R1403
R1404
R1405
+5V
V+
TP1
GND
Q1103
D1105
K1102
Q1102
R1109
R1108
R1110
R642
C639
R637
R643
R641
R636
R635
U610
C124
C631
R628
R627
U609
C123
R632
R631
C614
U606
C611
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C610
C627
C637
U604
C112
C607
C606
C146
U602
R804
R1019
R1018
R1017
R1016
R1015
R1014
R1013
R803
R806
R807
R808
C138
U1003
R811
C128
U803
C126
U804
C129
U802
C136
U1001
C137
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C803
C127
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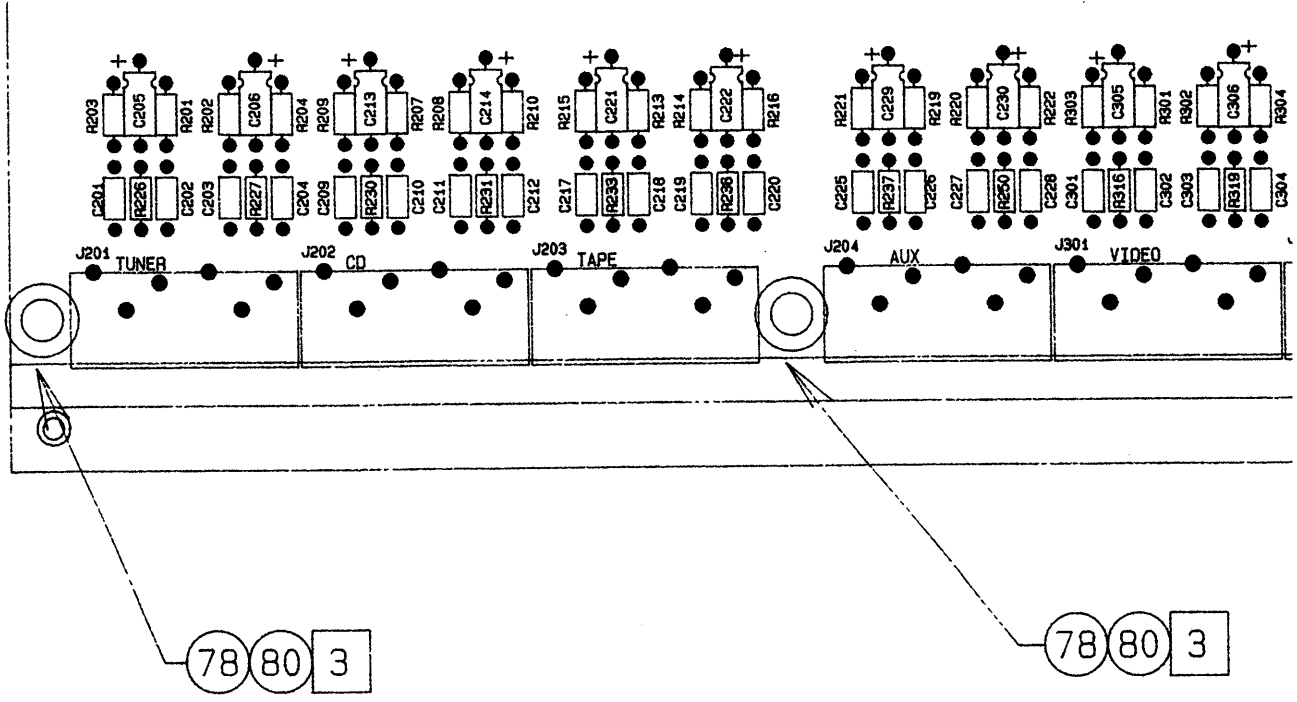
C800
R1001
R1002
R1003
R1004
R1005
R1006
R1007
R1008
R1011
R1009
R1012
R1010
U1201
U1202
C139
C134
R809
C315
C106
U302
C709
C708
FLASHER
BLASTER
P107
U1106
R1112
R1115
R1113
TRIGGER 1-6
P106A
KPS FUSE
F1401
TRIGGER
P111A
F1301
L1401
MOV1402
C1401
MOV1401
P16 BROWN/WHITE
P19 BLACK/WHITE
P17 BROWN
P18 BLACK
P1
P2
CK
ITE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C205
R201
R202
C206
R204
R209
C213
R207
R208
C214
R210
R215
C221
R213
R214
C222
R216
R221
C229
R219
R220
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R222
R303
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R301
R302
C306
R304
C201
R226
C202
C203
R227
C204
C209
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C210
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C225
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R250
C228
C301
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R319
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AUX
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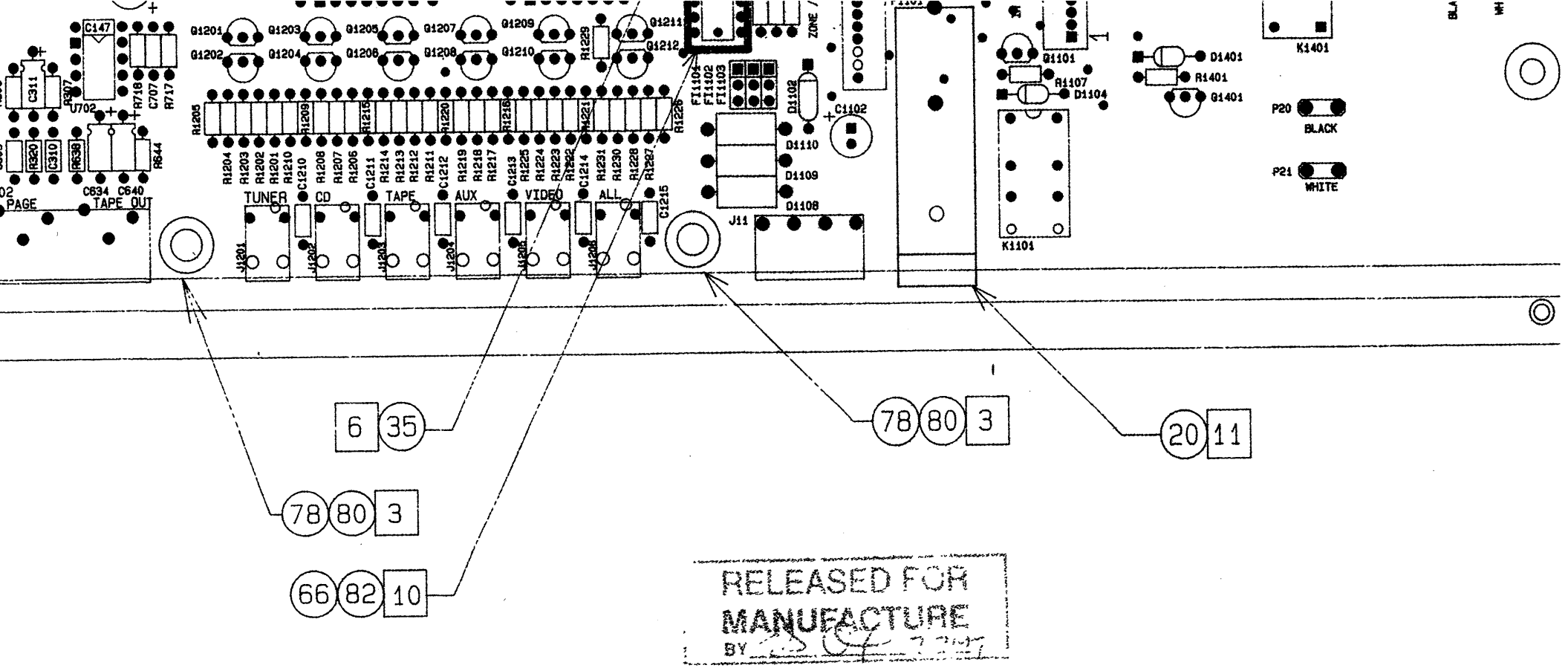

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PX600 MAIN BOARD ASSEMBLY	
926-0600-000 REV F0	COPY
DATE: JUNE 26, 1997	
DRAWN BY: LAURIE MIILLE	

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72 78 79 77 5
2 PLACES

3. RIGHT ANGLE BRACKETS SHOULD BE MOUNTED WITH THE LONG LEG (WITH OFFSET HOLE) TOWARD THE PCB.

4. THE SECTIONS OF THE PCB SHOULD NOT BE BROKEN APART.

5. TWO HEATSINKS TO BE INSTALLED AT U1401 AND U1402 SEE PARTS LIST.

6. INSTALL SHUNT JUMPER ON THE FRONT TWO PINS (FLASHER POSITION)

90 11

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Madrigal Audio Labs
Audio Access
PX600 Main bd
3/3/00

Changes shown
in ***Bold Italic*** Print

Description	mfg	mfg p/n#	qty	Reference	Comments
PC BOARD PX600 MAIN			***1***	***750-2700-002-G1***	***ECN2630- 3/8/2000***
RES 100 1/8W 5% CF	GENERIC		1	R1229	
RES 220 1/8W 5% CF	GENERIC		1	R1405	
RES 330 1/8W 5% CF	GENERIC		11	R226,227,230,231	
RES 330 1/8W 5% CF	GENERIC		0	R233,236,237,250	
RES 330 1/8W 5% CF	GENERIC		0	R316,319,320	
RES 390 1/8W 5% CF	GENERIC		1	R1402	
RES 470 1/8W 5% CF	GENERIC		26	R411,415,419,423	
RES 470 1/8W 5% CF	GENERIC		0	R427,431,435,439	
RES 470 1/8W 5% CF	GENERIC		0	R511,515,519,523	
RES 470 1/8W 5% CF	GENERIC		0	R527,531,535,539	
RES 470 1/8W 5% CF	GENERIC		0	R611,615,619,623	
RES 470 1/8W 5% CF	GENERIC		0	R627,631,635,637	
RES 470 1/8W 5% CF	GENERIC		0	R641,643	
RES 680 1/8W 5% CF	GENERIC		1	R1404	
RES 3K 1/8W 5% CF	GENERIC		1	R1403	
RES 10K 1/8W 5% CF	GENERIC		73	R203,204,209,210,R215,216,221,222,R303,304,308,412,R416,420,424,428,R428,432,436,440,R512,516,520,524,R528,532,536,540,R612,616,620,624,R628,632,636,638,R642,644,801-805,R811,1013-1018,R1102,1104,1106,R1111,1116,1118,R1232-1238,1240,R1240,1241,1243,R1244,1246,1247,R1247,1249,1250,R1253,1255	
RES 100K 1/8W 5% CF	GENERIC		24	R201,202,207,208,R213,214,219,220,R301,302,307,R806-810,1110,1125,R1205,1210,1215,R1220,1225,1231,R1113, R1115	
RES 1.5K 1/8W 5% CF	GENERIC		2		
RES 120 1/8W 5% CF	GENERIC		1	R1112	
RES 1K 1/8W 1% MF	GENERIC		63	R225,228,229,232,R234,235,238,239,R1001-1012,1019,R1101,1103,1105,R1107-1109,1117,R1121-1124,R1201-1204,R1206-1209,R1211-1214,R1216-1219,R1221-1224,R1226-1228,1230,R1239,1242,1245,R1248,1251,1254,R1254,1401	
RES 1K 1/8W 1% MF	GENERIC		2	R717, R718	
RNET 10K 9X10 SIP	BOURNS	4610X-101-103	2	R1, R2	

926-0600-000-G1

Dennis C.

CAP .001UF 50V AX CE	KEMET	C410C102K5R5C	46	C26-49, 201-204,C209-212,217-220,C225-228,301-304,C309,310	
CAP .1UF 50V AX CE	AVX	SA105C104MAA	60	C101-124,126-144,C146,147,414,426,C515,527,614,626,C707,801,806,807,C1405,1407,1410,C1412,1414	
CAP 18PF AX CE	KEMET	C410C180K1G5C	2	C802, C803	
Description	**mfg**	**mfg p/n#**	**qty**	**Reference**	
CAP 470PF 100V AX	AVX	SA101A471JAA	20	C1103-1108,C1202-1207,C1209-1216	
CAP .01UF 50V AX CE	AVX	SA105C103KAA	1	C1208	
CAP 10UF 16V EL RD	SPRAGUE	515D106M016HW	54	C205,206,213,214,C221,222,229,230,C305,306,311,C313-315,401,402,C407,408,416,418,C421,425,429,431,C431,434,438,501,C502,508,509,517,C517,519,522,526,C530,532,536,539,C601,602,607,608,C616,618,621,625,C629,631,633,634,C639,640,800,805	
CAP 22UF 16V EL RD	NICHICON	UVR1C220MDA	6	C413,427,514,528,C613,627	
CAP 10UF 50V EL AX	NICHICON	TVX1H100MAA	1	C1101	
CAP .47UF 250V X2 RD	SHINYEI	DHS400V474J	1	C1401	
CAP 100UF 16V EL RD	NICHICON	UVR1C101MDA	10	C423,436,524,537,C623,637,708,709,C1102, C1411	
CAP 100UF 50V EL RD	NICHICON	US1H101MNA	1	C1201	
CAP 470UF 25V EL RD	NICHICON	UVX1E471MPA	3	C1406,C1409,C1415	
CAP 2200UF 25V EL RD	NICHICON	UVR1E222MHA	1	C1408	
CAP 6800UF 25V EL RD	NICHICON	UVR1E682MRA6	1	C1413	
CAP .0056UF POLY 630V RD	PHILIPS	2222-371-85562	12	C405,406,411,412,C505,506,512,513,C605,606,611,612	
CAP .033UF POLY 250V RD .	ROEDERSTEIN	MKT1818333255	12	C403,404,409,410,C503,504,510,511,C603,604,609,610	
DIODE 1N4002	LITE-ON	1N4002	12	D1101, D1103-1105,D1201-1207,1401	
DIODE 1N5819	LITE-ON	1N5819	1	D1102	
DIODE TVS 6.8V 1500W	LITE-ON	1.5KE6.8C	2	D1109, D1110	
DIODE TVS 15V 1500W	LITE-ON	1.5KE15CA	1	D1108	
DIODE BR 1.5A	DIODES INC.	RB155	2	D1402, D1403	
DIODE BR 4A	DIODES INC.	RS404L	1	D1404	
TRANSISTOR MPSA56	MOTOROLA	MPSA56	16	Q1102,1103,1106,Q1107,1202,1204,Q1206,1208,1210,Q1212,1219-1224	
TRANSISTOR MPSA06	MOTOROLA	MPSA06	16	Q1101,1104,1105,Q1201,1203,1205,Q1207,1209,1211,Q1213-1218,1401	
IC 74ALS574N 20 PIN	TI	SN74ALS57	2	U1001, U1002	

IC 74HC08 14 PIN	TI	SN74HC08N	3	U999, U1201, U1202	
IC 74HC138 16 PIN	MOTOROLA	MC74HC138	1	U901	
IC 74HC14 14 PIN	TI	SN74HC14N	1	U904	
IC 74HC245 20 PIN	MOTOROLA	MC74HC245	1	U902	
IC 74HC573N 20 PIN	MOTOROLA	MC74HC573	1	U802	
IC 74LS04N 14 PIN	MOTOROLA	SN74LS04N	1	U1203	
IC CD4051	HARRIS	CD4051BE	1	U1003	
IC CD4052 16 PIN	HARRIS	CD4052BE	6	U401,402,501,502,U601,602	
IC DS75176BN 8 PIN	NATIONAL	DS75176BN	1	INSTALL IN U1106	
IC LF353N 8 PIN	NATIONAL	LF353N	24	U201-204,301,302,U403,404,407-410,U503,504,507-510,U603,604,607-610	
IC LM317 TO-220 MISC	SGS	LM317T	2	U1401, U1402	
IC MAX707CPA 8 PIN	MAXIM	MAX707CPA	1	U800	
IC RC5532N 8 PIN	TI	NE5532P	1	U702	
TEA6300T SMD PACK	***PHILIPS***	***TEA6300T***	***6***	***U405,406,505,506,U605,606***	***ECN2630- 3/8/2000***
POLYSWITCH .2A	RAYCHEM	RXE020-2	7	F1102, F1201-1206	
RELAY 5V DPDT	OMRON	G5V-2-DC5	2	K1101, K1102	
RELAY 12V 30A SPST	SIEMANS	SDT-SS-11	1	K1401	
FILTER FERRITE 270PF 100V	MURATA	DSS306-5571M10	21	FI47-54,56,57,F59-61,64-65,68,F69,1101,1102,1103	
40UH CORE	MICROMETALS	T68-26A	1	L1401	
FUSE HOLDER	BUSSMAN	HBH -M	1	F1101	
Fuse clips			2	F1301	
Description	**mfg**	**mfg p/n#**	**qty**	**Reference**	
CRYSTAL 11.0592MHZ	FOX.	FOX115	1	Y801	
MOV 400V	PANASONIC	ERZV07D47	2	MOV1401, MOV1402	
OPTO 4N26	MOTOROLA	4N26	3	U1101,U1102,U1103	
CONN SHUNT 2-PIN LOW PRO	AMP	531220-2	1	INSTALLED AT P120	
WIRE TRAP 12-PIN	MOLEX	52007-121	4	P1401A-1404A	
WIRE TRAP 10-PIN	MOLEX	52007-101	2	P106A, P111A	
RIBBON HOLDER 2MM 12-COND	MOLEX	51048-120	4	P1401-1404	
RIBBON HOLDER 2MM 10-COND	MOLEX	51048-100	2	P106, P111	
JACK 3.5MM PHONE	MOUSER	161-3505	18	J1101-1105,J1201-1213	
FASTON MALE PCB	AMP	62409-1	14	P1,24,5,7,8,11,12,P16-21	
HEADER 1X3X.1 MALE	AMP	87220-3	1	P120	
HEADER 4X.156 MALE RA PLU	WEILAND	25.332.34	1	J11	
HEADER 1X2 RT	JST	S2B-PH-K	1		
HEADER 2X13X.1 MALE RA	AMP	103310-6	1	P6	
SOCKET IC 8-PIN .300 MACH	PRECICONTACT	USO308TLA	1	U1106	
SOCKET IC 28-PIN .600 MAC	PRECICONTACT	US0628TLA	2	U803, U804	
IC SOCKET 68-PLCC	BERG	PLCC68P-T	1	U801	
HEATSINK TO-220	THERMALLOY	6030	4		
NUT 4-40 X kep SS	GENERIC		2		
SCREW 4-40 X 1/4 PHP SS	GENERIC		12		

TEST POINT	KEYSTONE	5006	1	TP1	
BRACKET .25X.25	KEYSTONE	621	10		
12pos 8.5" Ribbon	CIC		4	P1401-1404	
10-pos 3" Ribbon	CIC		1	P106	
10-pos 4.75" Ribbon	CIC		1	P111	

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Audioaccess Parts List
PX600 Main Board Rev B1
926-0600-000-B1
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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
1	640-4900-102	46	C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C201, C202, C203, C204, C209, C210, C211, C212, C217, C218, C219, C220, C225, C226, C227, C228, C301, C302, C303, C304, C309, C310	0.001 uF, 50V, Ceramic, Axial	030-2102-0
2	640-7000-001	60	C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C146, C147, C414, C426, C515, C527, C614, C626, C707, C801, C806, C807, C1405, C1407, C1410, C1412, C1414	0.1 uF, 50V, Ceramic, Axial	030-2104-0
3	641-2700-005	12	C405, C406, C411, C412, C505, C506, C512, C513, C605, C606, C611, C612	0.0056 uF, Poly	036-8562-0
4	641-2700-033	12	C403, C404, C409, C410, C503, C504, C510, C511, C603, C604, C609, C610	0.033 uF, Poly	036-8333-0
5	640-4900-018	2	C802, C803	18 pF, Ceramic, Axial	030-2180-0
6	640-6000-100	54	C205, C206, C213, C214, C221, C222, C229, C230, C305, C306, C311, C313, C314, C315, C401, C402, C407, C408, C416, C418, C421, C425, C429, C431, C434, C438, C501, C502, C508, C509, C517, C519, C522, C526, C530, C532, C536, C539, C601, C602, C607, C608, C616, C618, C621, C625, C629, C631, C633, C634, C639, C640, C800, C805	10 uF, 16V, Axial	038-0106-0
7	640-6100-010	1	C1101	10 uF, 35V, Axial	038-2106-0
8	640-2800-220	6	C413, C427, C514, C528, C613, C627	22 uF, 16V, Radial	031-0226-0
9	640-2900-008	10	C423, C436, C524, C537, C623, C637, C708, C709, C1102, C1411	100 uF, 16V, Radial	031-0107-0
10	640-2900-010	1	C1201	100 uF, 50V, Radial	031-2107-0
11	640-2900-047	3	C1406, C1409, C1415	470 uF, 25V, Radial	031-1477-0

Audioaccess Parts List
PX600 Main Board Rev B1
926-0600-000-B1
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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
12	640-2900-680	1	C1413	6800 uF, 25V	031-1688-0
13	640-2900-220	1	C1408	2200 uF, 25V	031-1228-8
14	642-1000-000	2	C1402, C1403	0.001 uF Y Rated	039-7102-0
15	642-1000-001	1	C1401	0.47 uF X Rated	039-7474-0
16	620-5819-000	1	D1102	1N5819	020-1104-0
17	620-2002-000	12	D1101, D1103, D1104, D1105, D1201, D1202, D1203, D1204, D1205, D1206, D1207, D1401	1N4002	020-2105-0
18	620-3157-000	2	D1402, D1403	Bridge Rectifier, 1.5A	023-0002-0
19	620-3155-000	1	D1404	Bridge Rectifier, 4A	023-0001-0
20	663-1000-200	1	F1101	Fuse Holder	094-0014-0
21	664-1001-000	1	INSTALL IN HOLDER	Fuse, 1.5A 250V, Slow Blow	091-0015-0
22	650-2200-000	1	F1301	Jumper (0 Ω, 1/4 W)	052-0000-0
23	647-1000-270	21	FI47, FI48, FI49, FI50, FI51, FI52, FI53, FI54, FI56, FI57, FI59, FI60, FI61, FI63, FI64, FI65, FI68, FI69, FI1101, FI1102, F1103	Filter, Ferrite, 270 pF, 16V	083-2271-0
24	667-2001-004	1	J11	Header,4X.156 Male, RA, Plug.	093-0092-0
25	667-3500-001	18	J1101, J1102, J1103, J1104, J1105, J1201, J1202, J1203, J1204, J1205, J1206, J1207, J1208, J1209, J1210, J1211, J1212, J1213	3.5 mm Phone Jack	092-0016-0
26	667-3000-400	12	J201, J202, J203, J204, J301, J302, J401, J402, J501, J502, J601, J602	Quad RCA Jack	092-0007-0
27	636-6000-000	2	K1101, K1102	Relay, DPDT, 5V	081-0002-0
28	636-6500-010	1	K1401	Relay, SPST, 30A, 12V	081-0003-0
29	646-1000-040	1	L1401	40 uH Toroid	081-0068-0
30	645-1000-100	5	MOV11, MOV12, MOV13, MOV1401, MOV1402	MOV 400 Volt	022-0134-0
31	667-2001-026	1	P6	Header 2X13X.1 Male RA	093-0005-0
32	667-3800-010	17	P1, P2, P3, P4, P5, P7, P8, P11, P12, P16, P17, P18, P19, P20, P21, P22, P23	Male Faston PCB	092-0010-0
33	667-2000-003	1	P120	Header,1X3X.1 Male	
34	667-2236-000	1	INSTALLED AT P120	Shunt Jumper 0.1	093-0066-0
35	705-0600-000-A	4	P1401, P1402, P1403, P1404	12 Pin, 8.5" Ribbon Cable	
36	705-0600-002-A	1	P106	10 Pin, 3.0" Ribbon Cable	
37	705-0600-001-A	1	P111	10 Pin, 4.75" Ribbon Cable	
38	667-5000-012	4	P1401A, P1402A, P1403A,P1404A	12 Pin Wire Trap	
39	667-5000-010	2	P106A, P111A	10 Pin Wire Trap	
40	624-0056-000	9	Q1102, Q1103, Q1106, Q1202, Q1204, Q1206, Q1208, Q1210, Q1212	MPSA56	010-1013-0
41	624-0006-000	16	Q1101, Q1104, Q1105, Q1201, Q1203, Q1205, Q1207, Q1209, Q1211, Q1213, Q1214, Q1215, Q1216, Q1217, Q1218, Q1401	MPSA06	010-0012-0

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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
42	656-2337-100	2	R1, R2	10K Ω X 9 SIP	058-1003-0
43	651-0010-100	1	R1229	100 Ω, 5%, 1/8W, CF	050-1001-0
44	651-0010-220	1	R1405	220 Ω, 5%, 1/8W, CF	050-2201-0
45	651-0010-330	11	R226, R227, R230, R231, R233, R236, R237, R250, R316, R319, R320	330 Ω, 5%, 1/8W, CF	050-3301-0
46	651-0010-390	1	R1402	390 Ω, 5%, 1/8W, CF	050-3901-0
47	651-0010-470	26	R411, R415, R419, R423, R427, R431, R435, R439, R511, R515, R519, R523, R527, R531, R535, R539, R611, R615, R619, R623, R627, R631, R635, R637, R641, R643	470 Ω, 5%, 1/8W, CF	050-4701-0
48	651-0010-680	1	R1404	680 Ω, 5%, 1/8W, CF	050-6801-0
49	651-0020-100	56	R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1019, R1101, R1103, R1105, R1107, R1108, R1109, R1111, R1112, R1121, R1122, R1123, R1124, R1201, R1202, R1203, R1204, R1206, R1207, R1208, R1209, R1211, R1212, R1213, R1214, R1216, R1217, R1218, R1219, R1221, R1222, R1223, R1224, R1226, R1227, R1228, R1230, R1232, R1233, R1234, R1235, R1236, R1237, R1401	1k Ω, 5%, 1/8W, CF	050-1002-0
50	651-0020-300	1	R1403	3k Ω, 5%, 1/8W, CF	050-3002-0
51	651-0030-100	52	R203, R204, R209, R210, R215, R216, R221, R222, R303, R304, R308, R412, R416, R420, R424, R428, R432, R436, R440, R512, R516, R520, R524, R528, R532, R536, R540, R612, R616, R620, R624, R628, R632, R636, R638, R642, R644, R801, R802, R803, R804, R805, R811, R1013, R1014, R1015, R1016, R1017, R1018, R1102, R1104, R1106	10k Ω, 5%, 1/8W, CF	050-1003-0
52	651-0040-100	24	R201, R202, R207, R208, R213, R214, R219, R220, R301, R302, R307, R806, R807, R808, R809, R810, R1110, R1125, R1205, R1210, R1215, R1220, R1225, R1231	100k Ω, 5%, 1/8W, CF	050-1004-0
53	651-0020-100	2	R717, R718	1.00k Ω, 1%, 1/8W, MF	061-1002-0

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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
54	651-0000-000	53	R205, R206, R211, R212, R217, R218, R223, R224, R305, R306, R309, R310, R312, R314, R401, R402, R405, R406, R410, R414, R418, R422, R426, R430, R434, R438, R501, R502, R505, R506, R510, R514, R518, R522, R526, R530, R534, R538, R601, R602, R605, R606, R610, R614, R618, R622, R626, R630, R634, R640, R1301, R1302, R1303	0 Ω (0.300" lead spacing)	
55	679-1000-001	1	TP1	Test Point	093-0063-0
56	605-0353-000	24	U201, U202, U203, U204, U301, U302, U403, U404, U407, U408, U409, U410, U503, U504, U507, U508, U509, U510, U603, U604, U607, U608, U609, U610	LF353N Dual JFET Opamp	001-1030-0
57	605-7712-000	1	U702	RC5532N Bi-polar Opamp	001-1042-0
58	605-6300-000	6	U405, U406, U505, U506, U605, U606	TEA 6300	001-0003-1
59	605-4052-000	6	U401, U402, U501, U502, U601, U602	CD4052	002-0051-0
60	605-2213-008	3	U999, U1201, U1202	74HC08	002-1008-0
61	605-2213-574	2	U1001, U1002	74ALS574N	002-0574-0
62	605-0004-000	1	U1203	74LS04N	002-0008-0
63	605-2203-014	1	U904	74HC14	002-1014-0
64	605-0751-000	1	U1106	DS75176BN	001-1003-0
65	605-2213-573	1	U802	74HC573N	002-0573-0
66	605-2202-138	1	U901	74HC138	002-1138-0
67	605-2213-245	1	U902	74HC245	002-2245-0
68	605-0026-000	3	U1101, U1102, U1103	4N26	001-0004-0
69	605-4051-000	1	U1003	CD4051	002-0051-0
70	633-0317-000	2	U1401, U1402	LM317	014-0070-0
71	605-7070-000	1	U800	MAX 707CPA	002-0007-0
72	678-2247-068	1	U801	Socket 68 Pin PLCC	093-0064-0
73	678-2247-028	2	U803, U804	28 Pin DIP Socket	093-0076-0
74	631-2207-011	1	Y801	11.0592 MHz Crystal	024-1109-0
75	680-2000-000	4		Heatsink T0-220	130-0493-0
76	730-2117-000	12		Bolt 4-40X1/4" PHP CAD	111-0041-0
77	736-2117-000	2		Nut, 4-40 KEP	111-6001-0
78	770-3000-000	10		.25 x .25 Bracket Keystone #621	100-0104-0
79	750-2700-002-B	1		PX600 Main PCB REV B	

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Notes: All resistors are 1/8 W with a 0.300" lead spacing.

All axial caps with a value less than 0.33 μF have a 0.300" lead spacing.

100 uF 16 V Aluminum Electrolytic Capacitor is an ECI Type CES.

22 uF 16 V Aluminum Electrolytic Capacitor is an ECI Type CES.

0.47 X Rated Cap is a Panasonic ECQ-E2A474MW.

3.5 mm Phone Jack is a Mouser 161-3505

Quad RCA Jack is an ECI RJ-PCM-204S-SG-R

The 12 Pin Wire Trap is a Molex 52007-1210.

The 10 Pin Wire Trap is a Molex 52007-1010.

One end of each 12 Pin Ribbon Cable should be installed in a Molex 51048-1200 Ribbon Cable Holder and soldered to the PC Board.

One end of each 10 Pin Ribbon Cable should be installed in a Molex 51048-1000 Ribbon Cable Holder and soldered to the PC Board.

The Test Point is a Mouser 151-103.

Audioaccess Parts List
PX600 Front Panel Rev C0
926-0600-001-C0
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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
1	640-7000-001	8	C1, C5, C6, C14, C16, C17, C18, C19	0.1 uF, 50V, Ceramic, Axial	030-2104-0
2	640-5000-330	2	C2, C7	33 uF, 16V, Al. Electro., Axial	038-0336-0
3	640-6000-100	2	C8, C15	10 uF, 16V, Al. Electro., Axial	038-0106-0
4	621-2009-000	7	D1, D2, D3, D4, D5, D7, D14	LED, Yellow, T1	025-0023-0
5	621-2008-000	1	D6	LED, Red, T1	025-0022-0
6	647-1000-000	5	L1, L2, L3, L4, L5	2 uH, 7A, Ferrite Bead	081-0057-0
7	705-1001-105-A	1	P1	Cable Assembly, 5 Pin	
8	667-2003-005	1	P3	Header, 5 X .1, Male, Locking	093-0009-0
9	667-2001-026	2	P4, P5	Header, 2 X 13 X .1, Male, RA	093-0005-0
10	624-0006-000	1	Q4	MPSA06	010-0012-0
11	660-1000-141	1	R1	Pot, 10k Ω, Motorized	
12	650-2349-100	1	R9	100 Ω, 1/4 W, 5%, CF	051-1001-0
13	650-2350-010	1	R17	1k Ω. 1/4 W, 5%, CF	051-1002-0
14	656-2337-100	1	R18	10k Ω X 9 SIP	058-1003-0
15	656-2337-018	1	R19	180 Ω X 9 SIP	
16	650-2350-100	1	R100	10k Ω, 1/4 W, 5%, CF	051-1003-0
17	650-2349-180	1	R101	180 Ω, 1/4 W, 5%, CF	051-1801-0
18	650-2349-820	1	R102	820 Ω, 1/4 W, 5%, CF	051-8201-0
19	745-1000-300	8	SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8	E-Switch 320.02 E1-1 Black	
20	665-2500-100	1	U1	Sharp IS1U60	001-0009-0
21	633-3400-005	1	U3	LM78L05ACZ, 5V, T0-92, Reg.	014-0001-0
22	605-2213-244	3	U4, U6, U7	74HC244	.002-1224-0
23	605-2201-374	1	U5	74LS374	002-1374-0
24	770-1500-350	8		LED Spacers, 0.350"	
25	750-2700-001-C	1	PCB	PCB, PX600 Front Panel, Rev C	

Notes: P4 and P5 should be mounted on the component side of the PCB.

P3 should be mounted on the solder side of the PCB. The locking ramp should be toward the right edge of the PCB when viewed from the front.

U1 should be mounted with its body at a right angle to the PCB. The bottom should be 0.350" off the surface of the PCB.

R1 is an ECI RC10201-20F08-10KB. Pot hardware must be provided with the assembled PCB.

The motor terminals of R1 should be connected to the pads on the PCB with short lengths of bus wire. The lower motor terminal should be connected to the pad directly beneath it, and the other terminal should be connected to the other pad.

The 5 pin Cable Assembly should be soldered at P1, projecting out from the component side of the PCB. Observe Pin 1 polarity.

The sections of the PCB should not be broken apart.

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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
1	640-4900-102	46	C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C201, C202, C203, C204, C209, C210, C211, C212, C217, C218, C219, C220, C225, C226, C227, C228, C301, C302, C303, C304, C309, C310	0.001 uF, 50V, Ceramic, Axial	030-2102-0
2	640-7000-001	60	C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C146, C147, C414, C426, C515, C527, C614, C626, C707, C801, C806, C807, C1405, C1407, C1410, C1412, C1414	0.1 uF, 50V, Ceramic, Axial	030-2104-0
3	641-2700-005	12	C405, C406, C411, C412, C505, C506, C512, C513, C605, C606, C611, C612	0.0056 uF, Poly	036-8562-0
4	641-2700-033	12	C403, C404, C409, C410, C503, C504, C510, C511, C603, C604, C609, C610	0.033 uF, Poly	036-8333-0
5	640-4900-018	2	C802, C803	18 pF, Ceramic, Axial	030-2180-0
6	640-6000-100	54	C205, C206, C213, C214, C221, C222, C229, C230, C305, C306, C311, C313, C314, C315, C401, C402, C407, C408, C416, C418, C421, C425, C429, C431, C434, C438, C501, C502, C508, C509, C517, C519, C522, C526, C530, C532, C536, C539, C601, C602, C607, C608, C616, C618, C621, C625, C629, C631, C633, C634, C639, C640, C800, C805	10 uF, 16V, Axial	038-0106-0
7	640-6100-010	1	C1101	10 uF, 35V, Axial	038-2106-0
8	640-2800-220	6	C413, C427, C514, C528, C613, C627	22 uF, 16V, Radial	031-0226-0
9	640-2900-008	10	C423, C436, C524, C537, C623, C637, C708, C709, C1102, C1411	100 uF, 16V, Radial	031-0107-0
10	640-2900-010	1	C1201	100 uF, 50V, Radial	031-2107-0
11	640-2900-047	3	C1406, C1409, C1415	470 uF, 25V, Radial	031-1477-0

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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
12	640-2900-680	1	C1413	6800 uF, 25V	031-1688-0
13	640-2900-220	1	C1408	2200 uF, 25V	031-1228-8
14	642-1000-000	2	C1402, C1403	0.001 uF Y Rated	039-7102-0
15	642-1000-001	1	C1401	0.47 uF X Rated	039-7474-0
16	620-5819-000	1	D1102	1N5819	020-1104-0
17	620-2002-000	12	D1101, D1103, D1104, D1105, D1201, D1202, D1203, D1204, D1205, D1206, D1207, D1401	1N4002	020-2105-0
18	620-3157-000	2	D1402, D1403	Bridge Rectifier, 1.5A	023-0002-0
19	620-3155-000	1	D1404	Bridge Rectifier, 4A	023-0001-0
20	663-1000-200	1	F1101	Fuse Holder	094-0014-0
21	664-1001-000	1	INSTALL IN HOLDER	Fuse, 1.5A 250V, Slow Blow	091-0015-0
22	664-2220-005	1	F1301	Fuse, 0.5A 125V, Slo Blo, Pico	
23	647-1000-270	21	FI47, FI48, FI49, FI50, FI51, FI52, FI53, FI54, FI56, FI57, FI59, FI60, FI61, FI63, FI64, FI65, FI68, FI69, FI1101, FI1102, FI1103	Filter, Ferrite, 270 pF, 16V	083-2271-0
24	667-2001-004	1	J11	Header,4X.156 Male, RA, Plug.	093-0092-0
25	667-3500-001	18	J1101, J1102, J1103, J1104, J1105, J1201, J1202, J1203, J1204, J1205, J1206, J1207, J1208, J1209, J1210, J1211, J1212, J1213	3.5 mm Phone Jack	092-0016-0
26	667-3000-400	12	J201, J202, J203, J204, J301, J302, J401, J402, J501, J502, J601, J602	Quad RCA Jack	092-0007-0
27	636-6000-000	2	K1101, K1102	Relay, DPDT, 5V	081-0002-0
28	636-6500-010	1	K1401	Relay, SPST, 30A, 12V	081-0003-0
29	646-1000-040	1	L1401	40 uH Toroid	081-0068-0
30	645-1000-100	2	MOV1401, MOV1402	MOV 400 Volt	022-0134-0
31	645-1000-200	3	MOV11, MOV12, MOV13	MOV 50 Volt	022-0060-0
32	667-2001-026	1	P6	Header 2X13X.1 Male RA	093-0005-0
33	667-3800-010	17	P1, P2, P3, P4, P5, P7, P8, P11, P12, P16, P17, P18, P19, P20, P21, P22, P23	Male Faston PCB	092-0010-0
34	667-2000-003	1	P120	Header,1X3X.1 Male	
35	667-2236-000	1	INSTALLED AT P120	Shunt Jumper 0.1	093-0066-0
36	705-0600-000-A	4	P1401, P1402, P1403, P1404	12 Pin, 8.5" Ribbon Cable	
37	705-0600-002-A	1	P106	10 Pin, 3.0" Ribbon Cable	
38	705-0600-001-A	1	P111	10 Pin, 4.75" Ribbon Cable	
39	667-5000-012	4	P1401A, P1402A, P1403A,P1404A	12 Pin Wire Trap	
40	667-5000-010	2	P106A, P111A	10 Pin Wire Trap	
41	624-0056-000	9	Q1102, Q1103, Q1106, Q1202, Q1204, Q1206, Q1208, Q1210, Q1212	MPSA56	010-1013-0
42	624-0006-000	16	Q1101, Q1104, Q1105, Q1201, Q1203, Q1205, Q1207, Q1209, Q1211, Q1213, Q1214, Q1215, Q1216, Q1217, Q1218, Q1401	MPSA06	010-0012-0

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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
43	656-2337-100	2	R1, R2	10K Ω X 9 SIP	058-1003-0
44	651-0010-100	1	R1229	100 Ω, 5%, 1/8W, CF	050-1001-0
45	651-0010-220	1	R1405	220 Ω, 5%, 1/8W, CF	050-2201-0
46	651-0010-330	11	R226, R227, R230, R231, R233, R236, R237, R250, R316, R319, R320	330 Ω, 5%, 1/8W, CF	050-3301-0
47	651-0010-390	1	R1402	390 Ω, 5%, 1/8W, CF	050-3901-0
48	651-0010-470	26	R411, R415, R419, R423, R427, R431, R435, R439, R511, R515, R519, R523, R527, R531, R535, R539, R611, R615, R619, R623, R627, R631, R635, R637, R641, R643	470 Ω, 5%, 1/8W, CF	050-4701-0
49	651-0010-680	1	R1404	680 Ω, 5%, 1/8W, CF	050-6801-0
50	651-0020-100	56	R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1019, R1101, R1103, R1105, R1107, R1108, R1109, R1111, R1112, R1121, R1122, R1123, R1124, R1201, R1202, R1203, R1204, R1206, R1207, R1208, R1209, R1211, R1212, R1213, R1214, R1216, R1217, R1218, R1219, R1221, R1222, R1223, R1224, R1226, R1227, R1228, R1230, R1232, R1233, R1234, R1235, R1236, R1237, R1401	1k Ω, 5%, 1/8W, CF	050-1002-0
51	651-0020-300	1	R1403	3k Ω, 5%, 1/8W, CF	050-3002-0
52	651-0030-100	52	R203, R204, R209, R210, R215, R216, R221, R222, R303, R304, R308, R412, R416, R420, R424, R428, R432, R436, R440, R512, R516, R520, R524, R528, R532, R536, R540, R612, R616, R620, R624, R628, R632, R636, R638, R642, R644, R801, R802, R803, R804, R805, R811, R1013, R1014, R1015, R1016, R1017, R1018, R1102, R1104, R1106	10k Ω, 5%, 1/8W, CF	050-1003-0
53	651-0040-100	24	R201, R202, R207, R208, R213, R214, R219, R220, R301, R302, R307, R806, R807, R808, R809, R810, R1110, R1125, R1205, R1210, R1215, R1220, R1225, R1231	100k Ω, 5%, 1/8W, CF	050-1004-0
54	651-0020-100	2	R717, R718	1.00k Ω, 1%, 1/8W, MF	061-1002-0

Audioaccess Parts List
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ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
55	651-0000-000	53	R205, R206, R211, R212, R217, R218, R223, R224, R305, R306, R309, R310, R312, R314, R401, R402, R405, R406, R410, R414, R418, R422, R426, R430, R434, R438, R501, R502, R505, R506, R510, R514, R518, R522, R526, R530, R534, R538, R601, R602, R605, R606, R610, R614, R618, R622, R626, R630, R634, R640, R1301, R1302, R1303	0 Ω (0.300" lead spacing)	
56	679-1000-001	1	TP1	Test Point	093-0063-0
57	605-0353-000	24	U201, U202, U203, U204, U301, U302, U403, U404, U407, U408, U409, U410, U503, U504, U507, U508, U509, U510, U603, U604, U607, U608, U609, U610	LF353N Dual JFET Opamp	001-1030-0
58	605-7712-000	1	U702	RC5532N Bi-polar Opamp	001-1042-0
59	605-6300-000	6	U405, U406, U505, U506, U605, U606	TEA 6300	001-0003-1
60	605-4052-000	6	U401, U402, U501, U502, U601, U602	CD4052	002-0051-0
61	605-2213-008	3	U999, U1201, U1202	74HC08	002-1008-0
62	605-2213-574	2	U1001, U1002	74ALS574N	002-0574-0
63	605-0004-000	1	U1203	74LS04N	002-0008-0
64	605-2203-014	1	U904	74HC14	002-1014-0
65	605-0751-000	1	U1106	DS75176BN	001-1003-0
66	605-2213-573	1	U802	74HC573N	002-0573-0
67	605-2202-138	1	U901	74HC138	002-1138-0
68	605-2213-245	1	U902	74HC245	002-2245-0
69	605-0026-000	3	U1101, U1102, U1103	4N26	001-0004-0
70	605-4051-000	1	U1003	CD4051	002-0051-0
71	633-0317-000	2	U1401, U1402	LM317	014-0070-0
72	605-7070-000	1	U800	MAX 707CPA	002-0007-0
73	678-2247-068	1	U801	Socket 68 Pin PLCC	093-0064-0
74	678-2247-028	2	U803, U804	28 Pin DIP Socket	093-0076-0
75	631-2207-011	1	Y801	11.0592 MHz Crystal	024-1109-0
76	680-2000-000	4		Heatsink T0-220	130-0493-0
77	730-2117-000	12		Bolt 4-40X1/4" PHP CAD	111-0041-0
78	736-2117-000	2		Nut, 4-40 KEP	111-6001-0
79	770-3000-000	10		.25 x .25 Bracket Keystone #621	100-0104-0
80	750-2700-002-C	1		PX600 Main PCB REV C	

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Notes: All resistors are 1/8 W with a 0.300" lead spacing.

All axial caps with a value less than 0.33 μF have a 0.300" lead spacing.

100 uF 16 V Aluminum Electrolytic Capacitor is an ECI Type CES.

22 uF 16 V Aluminum Electrolytic Capacitor is an ECI Type CES.

0.47 X Rated Cap is a Panasonic ECQ-E2A474MW.

3.5 mm Phone Jack is a Mouser 161-3505

Quad RCA Jack is an ECI RJ-PCM-204S-SG-R

The 12 Pin Wire Trap is a Molex 52007-1210.

The 10 Pin Wire Trap is a Molex 52007-1010.

One end of each 12 Pin Ribbon Cable should be installed in a Molex 51048-1200 Ribbon Cable Holder and soldered to the PC Board.

One end of each 10 Pin Ribbon Cable should be installed in a Molex 51048-1000 Ribbon Cable Holder and soldered to the PC Board.

The Test Point is a Mouser 151-103.

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926-0600-000-D1
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ITEM	AA Part #	Qty	Reference Designator	Description
1	640-4900-102	46	C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C201, C202, C203, C204, C209, C210, C211, C212, C217, C218, C219, C220, C225, C226, C227, C228, C301, C302, C303, C304, C309, C310	0.001 uF, 50V, Ceramic, Axial
2	640-7000-001	60	C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C146, C147, C414, C426, C515, C527, C614, C626, C707, C801, C806, C807, C1405, C1407, C1410, C1412, C1414	0.1 uF, 50V, Ceramic, Axial
3	641-2700-005	12	C405, C406, C411, C412, C505, C506, C512, C513, C605, C606, C611, C612	0.0056 uF, Poly
4	641-2700-033	12	C403, C404, C409, C410, C503, C504, C510, C511, C603, C604, C609, C610	0.033 uF, Poly
5	640-4900-018	2	C802, C803	18 pF, Ceramic, Axial
6	640-6000-100	54	C205, C206, C213, C214, C221, C222, C229, C230, C305, C306, C311, C313, C314, C315, C401, C402, C407, C408, C416, C418, C421, C425, C429, C431, C434, C438, C501, C502, C508, C509, C517, C519, C522, C526, C530, C532, C536, C539, C601, C602, C607, C608, C616, C618, C621, C625, C629, C631, C633, C634, C639, C640, C800, C805	10 uF, 16V, Axial
7	640-6100-010	1	C1101	10 uF, 35V, Axial
8	640-2800-220	6	C413, C427, C514, C528, C613, C627	22 uF, 16V, Radial
9	640-2900-008	10	C423, C436, C524, C537, C623, C637, C708, C709, C1102, C1411	100 uF, 16V, Radial
10	640-2900-010	1	C1201	100 uF, 50V, Radial
11	640-2900-047	3	C1406, C1409, C1415	470 uF, 25V, Radial
12	640-2900-680	1	C1413	6800 uF, 25V

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ITEM	AA Part #	Qty	Reference Designator	Description
13	640-2900-220	1	C1408	2200 uF, 25V
14	642-1000-000	2	C1402, C1403	0.001 uF Y Rated
15	642-1000-001	1	C1401	0.47 uF X Rated
16	620-5819-000	1	D1102	1N5819
17	620-2002-000	12	D1101, D1103, D1104, D1105, D1201, D1202, D1203, D1204, D1205, D1206, D1207, D1401	1N4002
18	620-3157-000	2	D1402, D1403	Bridge Rectifier, 1.5A
19	620-3155-000	1	D1404	Bridge Rectifier, 4A
20	663-1000-200	1	F1101	Fuse Holder
21	664-1001-000	1	INSTALL IN HOLDER	Fuse, 1.5A 250V, Slow Blow
22	664-2220-005	1	F1301	Fuse, 0.5A 125V, Slo Blo, Pico
23	647-1000-270	21	FI47, FI48, FI49, FI50, FI51, FI52, FI53, FI54, FI56, FI57, FI59, FI60, FI61, FI63, FI64, FI65, FI68, FI69, FI1101, FI1102, FI1103	Filter, Ferrite, 270 pF, 16V
24	667-2001-004	1	J11	Header,4X.156 Male, RA, Plug.
25	667-3500-001	18	J1101, J1102, J1103, J1104, J1105, J1201, J1202, J1203, J1204, J1205, J1206, J1207, J1208, J1209, J1210, J1211, J1212, J1213	3.5 mm Phone Jack
26	667-3000-400	12	J201, J202, J203, J204, J301, J302, J401, J402, J501, J502, J601, J602	Quad RCA Jack
27	636-6000-000	2	K1101, K1102	Relay, DPDT, 5V
28	636-6500-010	1	K1401	Relay, SPST, 30A, 12V
29	646-1000-040	1	L1401	40 uH Toroid
30	645-1000-100	2	MOV1401, MOV1402	MOV 400 Volt
31	645-1000-200	3	MOV11, MOV12, MOV13	MOV 50 Volt
32	667-2001-026	1	P6	Header 2X13X.1 Male RA
33	667-3800-010	17	P1, P2, P3, P4, P5, P7, P8, P11, P12, P16, P17, P18, P19, P20, P21, P22, P23	Male Faston PCB
34	667-2000-003	1	P120	Header,1X3X.1 Male
35	667-2236-000	1	INSTALLED AT P120	Shunt Jumper 0.1
36	705-0600-000-A	4	P1401, P1402, P1403, P1404	12 Pin, 8.5" Ribbon Cable
37	705-0600-002-A	1	P106	10 Pin, 3.0" Ribbon Cable
38	705-0600-001-A	1	P111	10 Pin, 4.75" Ribbon Cable
39	667-5000-012	4	P1401A, P1402A, P1403A,P1404A	12 Pin Wire Trap
40	667-5000-010	2	P106A, P111A	10 Pin Wire Trap
41	624-0056-000	9	Q1102, Q1103, Q1106, Q1202, Q1204, Q1206, Q1208, Q1210, Q1212	MPSA56
42	624-0006-000	16	Q1101, Q1104, Q1105, Q1201, Q1203, Q1205, Q1207, Q1209, Q1211, Q1213, Q1214, Q1215, Q1216, Q1217, Q1218, Q1401	MPSA06
43	656-2337-100	2	R1, R2	10K Ω X 9 SIP
44	651-0010-100	1	R1229	100 Ω, 5%, 1/8W, CF

Audioaccess Parts List
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ITEM	AA Part #	Qty	Reference Designator	Description
45	651-0010-220	1	R1405	220 Ω, 5%, 1/8W, CF
46	651-0010-330	11	R226, R227, R230, R231, R233, R236, R237, R250, R316, R319, R320	330 Ω, 5%, 1/8W, CF
47	651-0010-390	1	R1402	390 Ω, 5%, 1/8W, CF
48	651-0010-470	26	R411, R415, R419, R423, R427, R431, R435, R439, R511, R515, R519, R523, R527, R531, R535, R539, R611, R615, R619, R623, R627, R631, R635, R637, R641, R643	470 Ω, 5%, 1/8W, CF
49	651-0010-680	1	R1404	680 Ω, 5%, 1/8W, CF
50	651-0020-100	64	R225, R228, R229, R232, R234, R235, R238, R239, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1019, R1101, R1103, R1105, R1107, R1108, R1109, R1111, R1112, R1121, R1122, R1123, R1124, R1201, R1202, R1203, R1204, R1206, R1207, R1208, R1209, R1211, R1212, R1213, R1214, R1216, R1217, R1218, R1219, R1221, R1222, R1223, R1224, R1226, R1227, R1228, R1230, R1232, R1233, R1234, R1235, R1236, R1237, R1401	1k Ω, 5%, 1/8W, CF
51	651-0020-300	1	R1403	3k Ω, 5%, 1/8W, CF
52	651-0030-100	52	R203, R204, R209, R210, R215, R216, R221, R222, R303, R304, R308, R412, R416, R420, R424, R428, R432, R436, R440, R512, R516, R520, R524, R528, R532, R536, R540, R612, R616, R620, R624, R628, R632, R636, R638, R642, R644, R801, R802, R803, R804, R805, R811, R1013, R1014, R1015, R1016, R1017, R1018, R1102, R1104, R1106	10k Ω, 5%, 1/8W, CF
53	651-0040-100	24	R201, R202, R207, R208, R213, R214, R219, R220, R301, R302, R307, R806, R807, R808, R809, R810, R1110, R1125, R1205, R1210, R1215, R1220, R1225, R1231	100k Ω, 5%, 1/8W, CF
54	651-0020-100	2	R717, R718	1.00k Ω, 1%, 1/8W, MF
55	651-0000-000	53	R205, R206, R211, R212, R217,	0 Ω (0.300" lead spacing)

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926-0600-000-D1
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ITEM	AA Part #	Qty	Reference Designator	Description
			R218, R223, R224, R305, R306, R309, R310, R312, R314, R401, R402, R405, R406, R410, R414, R418, R422, R426, R430, R434, R438, R501, R502, R505, R506, R510, R514, R518, R522, R526, R530, R534, R538, R601, R602, R605, R606, R610, R614, R618, R622, R626, R630, R634, R640, R1301, R1302, R1303	
56	679-1000-001	1	TP1	Test Point
57	605-0353-000	24	U201, U202, U203, U204, U301, U302, U403, U404, U407, U408, U409, U410, U503, U504, U507, U508, U509, U510, U603, U604, U607, U608, U609, U610	LF353N Dual JFET Opamp
58	605-7712-000	1	U702	RC5532N Bi-polar Opamp
59	605-6300-000	6	U405, U406, U505, U506, U605, U606	TEA 6300
60	605-4052-000	6	U401, U402, U501, U502, U601, U602	CD4052
61	605-2213-008	3	U999, U1201, U1202	74HC08
62	605-2213-574	2	U1001, U1002	74ALS574N
63	605-0004-000	1	U1203	74LS04N
64	605-2203-014	1	U904	74HC14
65	605-0751-000	1	U1106	DS75176BN
66	605-2213-573	1	U802	74HC573N
67	605-2202-138	1	U901	74HC138
68	605-2213-245	1	U902	74HC245
69	605-0026-000	3	U1101, U1102, U1103	4N26
70	605-4051-000	1	U1003	CD4051
71	633-0317-000	2	U1401, U1402	LM317
72	605-7070-000	1	U800	MAX 707CPA
73	678-2247-068	1	U801	Socket 68 Pin PLCC
74	678-2247-028	2	U803, U804	28 Pin DIP Socket
75	631-2207-011	1	Y801	11.0592 MHz Crystal
76	680-2000-000	4		Heatsink T0-220
77	730-2117-000	12		Bolt 4-40X1/4" PHP CAD
78	736-2117-000	2		Nut, 4-40 KEP
79	770-3000-000	10		.25 x .25 Bracket Keystone #621
80	750-2700-002-D	1		PX600 Main PCB REV D

Audioaccess Parts List
PX600 Main Board Rev D2
926-0600-000-D2
Revised 4/30/96

ITEM	AA Part #	Qty	Reference Designator	Description
1	640-4900-102	46	C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C201, C202, C203, C204, C209, C210, C211, C212, C217, C218, C219, C220, C225, C226, C227, C228, C301, C302, C303, C304, C309, C310	0.001 uF, 50V, Ceramic, Axial
2	640-7000-001	60	C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C146, C147, C414, C426, C515, C527, C614, C626, C707, C801, C806, C807, C1405, C1407, C1410, C1412, C1414	0.1 uF, 50V, Ceramic, Axial
3	641-2700-005	12	C405, C406, C411, C412, C505, C506, C512, C513, C605, C606, C611, C612	0.0056 uF, Poly
4	641-2700-033	12	C403, C404, C409, C410, C503, C504, C510, C511, C603, C604, C609, C610	0.033 uF. Poly
5	640-4900-018	2	C802, C803	18 pF, Ceramic, Axial
6	640-6000-100	54	C205, C206, C213, C214, C221, C222, C229, C230, C305, C306, C311, C313, C314, C315, C401, C402, C407, C408, C416, C418, C421, C425, C429, C431, C434, C438, C501, C502, C508, C509, C517, C519, C522, C526, C530, C532, C536, C539, C601, C602, C607, C608, C616, C618, C621, C625, C629, C631, C633, C634, C639, C640, C800, C805	10 uF, 16V, Axial
7	640-6100-010	1	C1101	10 uF, 35V, Axial
8	640-2800-220	6	C413, C427, C514, C528, C613, C627	22 uF, 16V, Radial
9	640-2900-008	10	C423, C436, C524, C537, C623, C637, C708, C709, C1102, C1411	100 uF, 16V, Radial
10	640-2900-010	1	C1201	100 uF, 50V, Radial
11	640-2900-047	3	C1406, C1409, C1415	470 uF, 25V, Radial
12	640-2900-680	1	C1413	6800 uF, 25V

Audioaccess Parts List
PX600 Main Board Rev D2
926-0600-000-D2
Revised 4/30/96

ITEM	AA Part #	Qty	Reference Designator	Description
13	640-2900-220	1	C1408	2200 uF, 25V
14	642-1000-000	2	C1402, C1403	0.001 uF Y Rated
15	642-1000-001	1	C1401	0.47 uF X Rated
16	620-5819-000	1	D1102	1N5819
17	620-2002-000	12	D1101, D1103, D1104, D1105, D1201, D1202, D1203, D1204, D1205, D1206, D1207, D1401	1N4002
18	620-3157-000	2	D1402, D1403	Bridge Rectifier, 1.5A
19	620-3155-000	1	D1404	Bridge Rectifier, 4A
20	663-1000-200	1	F1101	Fuse Holder
21	664-1001-000	1	INSTALL IN HOLDER	Fuse, 1.5A 250V, Slow Blow
22	664-2220-005	1	F1301	Fuse, 0.5A 125V, Slo Blo, Pico
23	647-1000-270	21	FI47, FI48, FI49, FI50, FI51, FI52, FI53, FI54, FI56, FI57, FI59, FI60, FI61, FI63, FI64, FI65, FI68, FI69, FI1101, FI1102, FI1103	Filter, Ferrite, 270 pF, 16V
24	667-2001-004	1	J11	Header,4X.156 Male, RA, Plug.
25	667-3500-001	18	J1101, J1102, J1103, J1104, J1105, J1201, J1202, J1203, J1204, J1205, J1206, J1207, J1208, J1209, J1210, J1211, J1212, J1213	3.5 mm Phone Jack
26	667-3000-400	12	J201, J202, J203, J204, J301, J302, J401, J402, J501, J502, J601, J602	Quad RCA Jack
27	636-6000-000	2	K1101, K1102	Relay, DPDT, 5V
28	636-6500-010	1	K1401	Relay, SPST, 30A, 12V
29	646-1000-040	1	L1401	40 uH Toroid
30	645-1000-100	2	MOV1401, MOV1402	MOV 400 Volt
31	645-1000-200	3	MOV11, MOV12, MOV13	MOV 50 Volt
32	667-2001-026	1	P6	Header 2X13X.1 Male RA
33	667-3800-010	17	P1, P2, P3, P4, P5, P7, P8, P11, P12, P16, P17, P18, P19, P20, P21, P22, P23	Male Faston PCB
34	667-2000-003	1	P120	Header,1X3X.1 Male
35	667-2236-000	1	INSTALLED AT P120	Shunt Jumper 0.1
36	705-0600-000-A	4	P1401, P1402, P1403, P1404	12 Pin, 8.5" Ribbon Cable
37	705-0600-002-A	1	P106	10 Pin, 3.0" Ribbon Cable
38	705-0600-001-A	1	P111	10 Pin, 4.75" Ribbon Cable
39	667-5000-012	4	P1401A, P1402A, P1403A,P1404A	12 Pin Wire Trap
40	667-5000-010	2	P106A, P111A	10 Pin Wire Trap
41	624-0056-000	9	Q1102, Q1103, Q1106, Q1202, Q1204, Q1206, Q1208, Q1210, Q1212	MPSA56
42	624-0006-000	16	Q1101, Q1104, Q1105, Q1201, Q1203, Q1205, Q1207, Q1209, Q1211, Q1213, Q1214, Q1215, Q1216, Q1217, Q1218, Q1401	MPSA06
43	656-2337-100	2	R1, R2	10K Ω X 9 SIP
44	651-0010-100	1	R1229	100 Ω, 5%, 1/8W, CF

Audioaccess Parts List
PX600 Main Board Rev D2
926-0600-000-D2
Revised 4/30/96

ITEM	AA Part #	Qty	Reference Designator	Description
45	651-0010-220	1	R1405	220 Ω, 5%, 1/8W, CF
46	651-0010-330	11	R226, R227, R230, R231, R233, R236, R237, R250, R316, R319, R320	330 Ω, 5%, 1/8W, CF
47	651-0010-390	1	R1402	390 Ω, 5%, 1/8W, CF
48	651-0010-470	26	R411, R415, R419, R423, R427, R431, R435, R439, R511, R515, R519, R523, R527, R531, R535, R539, R611, R615, R619, R623, R627, R631, R635, R637, R641, R643	470 Ω, 5%, 1/8W, CF
49	651-0010-680	1	R1404	680 Ω, 5%, 1/8W, CF
50	651-0020-100	64	R225, R228, R229, R232, R234, R235, R238, R239, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1019, R1101, R1103, R1105, R1107, R1108, R1109, R1111, R1112, R1121, R1122, R1123, R1124, R1201, R1202, R1203, R1204, R1206, R1207, R1208, R1209, R1211, R1212, R1213, R1214, R1216, R1217, R1218, R1219, R1221, R1222, R1223, R1224, R1226, R1227, R1228, R1230, R1232, R1233, R1234, R1235, R1236, R1237, R1401	1k Ω, 5%, 1/8W, CF
51	651-0020-300	1	R1403	3k Ω, 5%, 1/8W, CF
52	651-0030-100	52	R203, R204, R209, R210, R215, R216, R221, R222, R303, R304, R308, R412, R416, R420, R424, R428, R432, R436, R440, R512, R516, R520, R524, R528, R532, R536, R540, R612, R616, R620, R624, R628, R632, R636, R638, R642, R644, R801, R802, R803, R804, R805, R811, R1013, R1014, R1015, R1016, R1017, R1018, R1102, R1104, R1106	10k Ω, 5%, 1/8W, CF
53	651-0040-100	24	R201, R202, R207, R208, R213, R214, R219, R220, R301, R302, R307, R806, R807, R808, R809, R810, R1110, R1125, R1205, R1210, R1215, R1220, R1225, R1231	100k Ω, 5%, 1/8W, CF
54	651-0020-100	2	R717, R718	1.00k Ω, 1%, 1/8W, MF
55	651-0000-000	53	R205, R206, R211, R212, R217,	0 Ω (0.300" lead spacing)

Audioaccess Parts List
PX600 Main Board Rev D2
926-0600-000-D2
Revised 4/30/96

ITEM	AA Part #	Qty	Reference Designator	Description
			R218, R223, R224, R305, R306, R309, R310, R312, R314, R401, R402, R405, R406, R410, R414, R418, R422, R426, R430, R434, R438, R501, R502, R505, R506, R510, R514, R518, R522, R526, R530, R534, R538, R601, R602, R605, R606, R610, R614, R618, R622, R626, R630, R634, R640, R1301, R1302, R1303	
56	651-0020-150	2	R1113, R1115	1.5k Ω, 1/8W, 5%
57	679-1000-001	1	TP1	Test Point
58	605-0353-000	24	U201, U202, U203, U204, U301, U302, U403, U404, U407, U408, U409, U410, U503, U504, U507, U508, U509, U510, U603, U604, U607, U608, U609, U610	LF353N Dual JFET Opamp
59	605-7712-000	1	U702	RC5532N Bi-polar Opamp
60	605-6300-000	6	U405, U406, U505, U506, U605, U606	TEA 6300
61	605-4052-000	6	U401, U402, U501, U502, U601, U602	CD4052
62	605-2213-008	3	U999, U1201, U1202	74HC08
63	605-2213-574	2	U1001, U1002	74ALS574N
64	605-0004-000	1	U1203	74LS04N
65	605-2203-014	1	U904	74HC14
66	328-00008-00	1	U1106	8 Pin DIP Socket
67	605-2213-573	1	U802	74HC573N
68	605-2202-138	1	U901	74HC138
69	605-2213-245	1	U902	74HC245
70	605-0026-000	3	U1101, U1102, U1103	4N26
71	605-4051-000	1	U1003	CD4051
72	633-0317-000	2	U1401, U1402	LM317
73	605-7070-000	1	U800	MAX 707CPA
74	678-2247-068	1	U801	Socket 68 Pin PLCC
75	678-2247-028	2	U803, U804	28 Pin DIP Socket
76	631-2207-011	1	Y801	11.0592 MHz Crystal
77	680-2000-000	4		Heatsink T0-220
78	730-2117-000	12		Bolt 4-40X1/4" PHP CAD
79	736-2117-000	2		Nut. 4-40 KEP
80	770-3000-000	10		.25 x .25 Bracket Keystone #621
81	750-2700-002-D	1		PX600 Main PCB REV D
82	605-0751-000	1	INSTALL IN SOCKET U1106	DS75176BN

RELEASED FOR MANUFACTURE BY 3/1997

Audioaccess Bill of Materials
PX600 Multiroom Preamp/Controller - Non US Model Rev E
Revised 3/17/97

Level	Part Number	Rev	Qty	Description	
0	PX600-NUS	00	1	PX600 Multiroom Preamp	Export Version
1	900-0600-001	00	1	Kit,Shipping,PX600-NUS	
2	664-2101-100		1	Fuse, 5X20mm, T1A, SEMKO	
2	380-10050-00		1	Fuse, 5x20mm, .500mA 250V, SEMKO	
2	380-10160-00		1	Fuse, 5x20mm, 1.6A 2500V, SEMKO	
2	190-20672-00		1	Cable Core, w/hldr, 0.390"/110 ohm	
2	190-20642-00		1	Cable Core, w/hldr, 0.250"/130 ohm	
2	474-02001-00		1	Label, CE, Outer Package	
1	801-3150-000		1	Shipping Bag, Anti-Static, 24X24	
1	800-3160-000	00	1	Shipping Box, PX600/PX612	
1	805-3000-005	00	1	Shipping Foam, PX600/PX612	
1	820-0600-000	00	1	Instruction Sheet, PX600	
1	800-4000-000	00	1	Warranty Card	
1	825-0600-000		1	Installation Manual, PX-600	
1	826-0600-000		1	Owner's Manual, PX-600	
1	700-1000-210		3	Wire Assy, Xantech IR Emitter	
1	920-0600-001	00	1	Assembly, Final, PX600-NUS	Assembled and Tested
2	760-4600-009	A	1	Chassis, PX600-NUS	
2	905-0600-000	00	1	Kit, Chassis Hardware, PX600	
3	760-4600-005	E	1	Chassis, Top Cover, PX600	
3	690-3500-010		1	Conn. AC Male W/Switch & Fuse	
3	720-2500-010		4	Foot, Snap In, Gold	TAC 1319-03901
3	730-2320-000		12	Screw,#4X3/8" Blk, Sheet Metal	
3	730-2117-000		8	Screw,4-40X1/4" Phil Pan Zinc	
3	734-3500-004		8	Washer, #4 Internal Star	
3	730-2117-001		2	Screw,4-40X1/4" PH, Blk, Self Tp	
3	730-2117-003		7	Screw,4-40X5/8" PH PAN BLK MCH	
3	770-1200-000		7	Spacer,Nylon,4-40X5/16",Hex	Microplastics 14HTSP022
3	736-2117-000		7	Nut, KEP 4-40 X 1/4"	
3	730-2321-101		15	Screw,6-32X1/4" PH PAN TAP BLK	
3	700-0600-000	A	1	Wire Assy,X.X",BLK,18AWG, MF/MF	
3	700-0600-001	A	1	Wire Assy,X.X",WHT,18AWG, MF/MF	
3	700-0600-002	A	1	Wire Assy,X.X",G/Y,18AWG,RT/ST	
3	458-00041-00		1	Wire Assy, AWG26, F-F, 12" Wht	
3	734-3500-006		1	Washer, #6 Internal Star	
3	730-2330-000		1	Screw,6-32X3/4", PHIL PAN ZINC	
3	736-2117-001		2	Nut, KEP 6-32 X 5/16"	
3	730-2321-001		2	Screw,6-32X3/8" PH PAN BLK MCH	
3	735-4500-000		7	Cable Tie, 4"	
3	736-2200-000		2	Nut, Nylock, Hex, 6-32	
3	734-1000-010		2	Washer, Rubber Grommet, Keystone #730	
3	667-1000-006		1	Screw Terminal, 4 Pos Plugable	
3	470-00043-00		1	Label, T500mA 250V, PX-600/230V	
3	472-00043-00		1	Label, T1.6A 250V, PX-600/230V	
3	472-02001-00		1	Label, SEMKO	
3	473-02001-00		1	Label, CE, Product	

Audioaccess Bill of Materials
PX600 Multiroom Preamp/Controller - Non US Model Rev E
Revised 3/17/97

Level	Part Number	Rev	Qty	Description	
2	371-00043-00		1	Transformer, PX600 SEMKO/VDE	
3	690-3550-000		1	Conn., AC Female 3 Prong, IEC	
3	700-0600-004	A	1	Wire Assy,X.X",BLK,18AWG,MF/SF	
3	700-0600-005	A	1	Wire Assy,X.X",WHT,18AWG,MF/SF	
3	700-0600-006	A	1	Wire Assy,X.X",G/Y,18AWG,RT/ST	
2	925-0600-000	B0	1	Assembly,Board,AT,PX600 Main	
3	926-0600-000	B0	1	Assembly,Board,TK,PX600 Main	
3	610-2712-000		1	I.C. 27C512-200	
3	606-1244-000		1	BQ4011Y-200 (Static RAM)	
3	606-8055-000		1	I.C. 80C552-4A68 Signetics	
2	930-0600-001	00	1	Assembly, Mech, AT, PX600 Frnt Pl	
3	906-0600-000	00	1	Kit, Chassis, PX600 Front Panel	
4	741-1000-021	00	1	Knob, PX600, Modified	
5	741-1000-020		1	Knob, TAC AP2500	TAC 1630-04902
5	401-0600-000		1	Printing, PX-600 Knob	
5	640-00125-00		1	Spacer, Nylon Rnd, .1875" x .125"	
4	780-0600-001	00	6	Pushbutton Bezel, Modified	
5	780-0600-000		6	Pushbutton Bezel, TAC	TAC 1742-08302
4	780-0600-000		2	Pushbutton Bezel, TAC	TAC 1742-08302
4	780-0600-002		8	Bezel Light Pipe, TAC	TAC 1732-08801
4	740-0600-000		8	Pushbutton Switch Cap, TAC	TAC 1662-66902
4	735-0100-000	A	1	Adhesive, Die Cut, PX600 FP	
4	780-0600-100		1	Window, IR	TAC 1532-21101
4	770-1500-100		8	Spacer, NYLON, T1 LED, .20"	
4	736-2117-000		8	Nut, KEP 4-40 X 1/4"	
4	730-2321-101		7	Screw, 6-32X1/4" PH PAN TAP BLK	
4	780-0600-050		1	End Cap, Right TAC 90 mm	TAC 1562-08302
4	780-0600-051		1	End Cap, Left TAC 90 mm	TAC 1562-08202
4	705-1000-850	A	1	Rib Ass'y, 26 Pin, F-F, XX"	
4	760-4600-001	B	1	Chassis, PX600 Z Bracket	
4	760-4600-002	B	1	Chassis, PX600 Front Panel	
4	760-4600-000	B	1	Chassis, PX600 Pot Mnt Bracket	
3	925-0600-001	C0	1	Assembly, Board, AT, PX600 FP	
4	926-0600-001	C0	1	Assembly, Board, TK, PX600 FP	

Audioaccess Parts List
PX600 Main Board Rev E0
926-0600-000-E0
Revised 03/20/97

RELEASED FOR MANUFACTURE
BY _____ 3 1997

ITEM	AA Part #	Qty	Reference Designator	Description
1	640-4900-102	46	C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C201, C202, C203, C204, C209, C210, C211, C212, C217, C218, C219, C220, C225, C226, C227, C228, C301, C302, C303, C304, C309, C310	0.001 uF, 50V, Ceramic, Axial
2	640-7000-001	60	C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C146, C147, C414, C426, C515, C527, C614, C626, C707, C801, C806, C807, C1405, C1407, C1410, C1412, C1414	0.1 uF, 50V, Ceramic, Axial
3	641-2700-005	12	C405, C406, C411, C412, C505, C506, C512, C513, C605, C606, C611, C612	0.0056 uF, Poly
4	641-2700-033	12	C403, C404, C409, C410, C503, C504, C510, C511, C603, C604, C609, C610	0.033 uF, Poly
5	640-4900-018	2	C802, C803	18 pF, Ceramic, Axial
6	640-6000-100	54	C205, C206, C213, C214, C221, C222, C229, C230, C305, C306, C311, C313, C314, C315, C401, C402, C407, C408, C416, C418, C421, C425, C429, C431, C434, C438, C501, C502, C508, C509, C517, C519, C522, C526, C530, C532, C536, C539, C601, C602, C607, C608, C616, C618, C621, C625, C629, C631, C633, C634, C639, C640, C800, C805	10 uF, 16V, Axial
7	640-6100-010	1	C1101	10 uF, 35V, Axial
8	640-2800-220	6	C413, C427, C514, C528, C613, C627	22 uF, 16V, Radial
9	640-2900-008	10	C423, C436, C524, C537, C623, C637, C708, C709, C1102, C1411	100 uF, 16V, Radial
10	640-2900-010	1	C1201	100 uF, 50V, Radial
11	640-2900-047	3	C1406, C1409, C1415	470 uF, 25V, Radial

Audioaccess Parts List
PX600 Main Board Rev E0
926-0600-000-E0
Revised 03/20/97

ITEM	AA Part #	Qty	Reference Designator	Description
12	640-2900-680	1	C1413	6800 uF, 25V
13	640-2900-220	1	C1408	2200 uF, 25V
14				
15				
16	620-5819-000	1	D1102	1N5819
17	620-2002-000	12	D1101, D1103, D1104, D1105, D1201, D1202, D1203, D1204, D1205, D1206, D1207, D1401	1N4002
18	620-3157-000	2	D1402, D1403	Bridge Rectifier, 1.5A
19	620-3155-000	1	D1404	Bridge Rectifier, 4A
20	690-01000-00	1	F1101	Fuse Holder
21	320-00012-00	4	P1401, P1402, P1403, P1404	Ribbon Holder, 2mm, 12 Cond
22	320-00010-00	2	P106, P111	Ribbon Holder, 2mm, 10 Cond
23	647-1000-270	21	FI47, FI48, FI49, FI50, FI51, FI52, FI53, FI54, FI56, FI57, FI59, FI60, FI61, FI63, FI64, FI65, FI68, FI69, FI1101, FI1102, FI1103	Filter, Ferrite, 270 pF, 16V
24	667-2001-004	1	J11	Header,4X.156 Male, RA, Plug.
25	667-3500-001	18	J1101, J1102, J1103, J1104, J1105, J1201, J1202, J1203, J1204, J1205, J1206, J1207, J1208, J1209, J1210, J1211, J1212, J1213	3.5 mm Phone Jack
26	667-3000-400	12	J201, J202, J203, J204, J301, J302, J401, J402, J501, J502, J601, J602	Quad RCA Jack
27	636-6000-000	2	K1101, K1102	Relay, DPDT, 5V
28	308-15012-00	1	K1401	Relay, SPST, 30A, 12V
29	646-1000-040	1	L1401	40 uH Toroid
30	645-1000-100	2	MOV1401, MOV1402	MOV 400 Volt
31				
32	667-2001-026	1	P6	Header 2X13X.1 Male RA
33	667-3800-010	14	P1, P2, P4, P5, P7, P8, P11, P12, P16, P17, P18, P19, P20, P21	Male Faston PCB
34	667-2000-003	1	P120	Header,1X3X.1 Male
35	667-2236-000	1	INSTALLED AT P120	Shunt Jumper 0.1
36	705-0600-000-A	4	P1401, P1402, P1403, P1404	12 Pin, 8.5" Ribbon Cable
37	705-0600-002-A	1	P106	10 Pin, 3.0" Ribbon Cable
38	705-0600-001-A	1	P111	10 Pin, 4.75" Ribbon Cable
39	667-5000-012	4	P1401A, P1402A, P1403A,P1404A	12 Pin Wire Trap
40	667-5000-010	2	P106A, P111A	10 Pin Wire Trap
41	624-0056-000	16	Q1102, Q1103, Q1106, Q1107, Q1202, Q1204, Q1206, Q1208, Q1210, Q1212, Q1219, Q1220, Q1221, Q1222, Q1223, Q1224	MPSA56

Audioaccess Parts List
PX600 Main Board Rev E0
926-0600-000-E0
Revised 03/20/97

ITEM	AA Part #	Qty	Reference Designator	Description
42	624-0006-000	16	Q1101, Q1104, Q1105, Q1201, Q1203, Q1205, Q1207, Q1209, Q1211, Q1213, Q1214, Q1215, Q1216, Q1217, Q1218, Q1401	MPSA06
43	656-2337-100	2	R1, R2	10K Ω X 9 SIP
44	651-0010-100	1	R1229	100 Ω, 5%, 1/8W, CF
45	651-0010-220	1	R1405	220 Ω, 5%, 1/8W, CF
46	651-0010-330	11	R226, R227, R230, R231, R233, R236, R237, R250, R316, R319, R320	330 Ω, 5%, 1/8W, CF
47	651-0010-390	1	R1402	390 Ω, 5%, 1/8W, CF
48	651-0010-470	26	R411, R415, R419, R423, R427, R431, R435, R439, R511, R515, R519, R523, R527, R531, R535, R539, R611, R615, R619, R623, R627, R631, R635, R637, R641, R643	470 Ω, 5%, 1/8W, CF
49	651-0010-680	1	R1404	680 Ω, 5%, 1/8W, CF
50	651-0020-100	63	R225, R228, R229, R232, R234, R235, R238, R239, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1019, R1101, R1103, R1105, R1107, R1108, R1109, R1117, R1121, R1122, R1123, R1124, R1201, R1202, R1203, R1204, R1206, R1207, R1208, R1209, R1211, R1212, R1213, R1214, R1216, R1217, R1218, R1219, R1221, R1222, R1223, R1224, R1226, R1227, R1228, R1230, R1239, R1242, R1245, R1248, R1251, R1254, R1401	1k Ω, 5%, 1/8W, CF
51	651-0020-300	1	R1403	3k Ω, 5%, 1/8W, CF

Audioaccess Parts List
PX600 Main Board Rev E0
926-0600-000-E0
Revised 03/20/97

ITEM	AA Part #	Qty	Reference Designator	Description
52	651-0030-100	73	R203, R204, R209, R210, R215, R216, R221, R222, R303, R304, R308, R412, R416, R420, R424, R428, R432, R436, R440, R512, R516, R520, R524, R528, R532, R536, R540, R612, R616, R620, R624, R628, R632, R636, R638, R642, R644, R801, R802, R803, R804, R805, R811, R1013, R1014, R1015, R1016, R1017, R1018, R1102, R1104, R1106, R1111, R1116, R1118, R1232, R1233, R1234, R1235, R1236, R1237, R1238, R1240, R1241, R1243, R1244, R1246, R1247, R1249, R1250, R1252, R1253, R1255	10k Ω, 5%, 1/8W, CF
53	651-0040-100	24	R201, R202, R207, R208, R213, R214, R219, R220, R301, R302, R307, R806, R807, R808, R809, R810, R1110, R1125, R1205, R1210, R1215, R1220, R1225, R1231	100k Ω, 5%, 1/8W, CF
54	651-0020-100	2	R717, R718	1.00k Ω, 1%, 1/8W, MF
55				
56	651-0020-150	2	R1113, R1115	1.5k Ω, 1/8W, 5%
57	679-1000-001	1	TP1	Test Point
58	605-0353-000	24	U201, U202, U203, U204, U301, U302, U403, U404, U407, U408, U409, U410, U503, U504, U507, U508, U509, U510, U603, U604, U607, U608, U609, U610	LF353N Dual JFET Opamp
59	605-7712-000	1	U702	RC5532N Bi-polar Opamp
60	605-6300-000	6	U405, U406, U505, U506, U605, U606	TEA 6300
61	605-4052-000	6	U401, U402, U501, U502, U601, U602	CD4052
62	605-2213-008	3	U999, U1201, U1202	74HC08
63	605-2213-574	2	U1001, U1002	74ALS574N
64	605-0004-000	1	U1203	74LS04N
65	605-2203-014	1	U904	74HC14
66	328-00008-00	1	U1106	8 Pin DIP Socket
67	605-2213-573	1	U802	74HC573N
68	605-2202-138	1	U901	74HC138
69	605-2213-245	1	U902	74HC245
70	605-0026-000	3	U1101, U1102, U1103	4N26
71	605-4051-000	1	U1003	CD4051

Audioaccess Parts List
PX600 Main Board Rev E0
926-0600-000-E0
Revised 03/20/97

ITEM	AA Part #	Qty	Reference Designator	Description
72	633-0317-000	2	U1401, U1402	LM317
73	605-7070-000	1	U800	MAX 707CPA
74	678-2247-068	1	U801	Socket 68 Pin PLCC
75	678-2247-028	2	U803, U804	28 Pin DIP Socket
76	631-2207-011	1	Y801	11.0592 MHz Crystal
77	680-2000-000	4		Heatsink T0-220
78	730-2117-000	12		Bolt 4-40X1/4" PHP CAD
79	736-2117-000	2		Nut, 4-40 KEP
80	770-3000-000	10		.25 x .25 Bracket Keystone #621
81	750-2700-002-E	1		PX600 Main PCB REV E
82	605-0751-000	1	INSTALL IN SOCKET U1106	DS75176BN
83		1	R1112	120 Ω, 5%, 1/8W, CF
84	320-52102-00	1	P9	HEADER, 1x2, RT ANG
85	135-30147-00	20	C1103, C1104, C1105, C1106, C1107, C1108, C1202, C1203, C1204, C1205, C1206, C1207, C1209, C1210, C1211, C1212 C1213, C1214, C1215, C1216	470Pf, 100V, Axial
86		1	C1208	.01uF, 50V, Axial
87	381-00020-00	7	F1102, F1201, F1202, F1203, F1204, F1205, F1206	.2A, Polyswitch
88	205-10068-00	2	D1109, D1110	TVS, 6.8V, 1500W
89	644-1000-015	1	D1108	TVS, 15V, 1500W
90	663-1000-100	2	F1301	Fuse clips

RELEASED FOR MANUFACTURE
BY TSC 9/2/97

Audioaccess Parts List
PX600 Main Board Rev E1
926-0600-000-E1
Revised 6/27/97

ITEM	AA Part #	Qty	Reference Designator	Description
1	640-4900-102	46	C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C201, C202, C203, C204, C209, C210, C211, C212, C217, C218, C219, C220, C225, C226, C227, C228, C301, C302, C303, C304, C309, C310	0.001 uF, 50V, Ceramic, Axial
2	640-7000-001	60	C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C146, C147, C414, C426, C515, C527, C614, C626, C707, C801, C806, C807, C1405, C1407, C1410, C1412, C1414	0.1 uF, 50V, Ceramic, Axial
3	641-2700-005	12	C405, C406, C411, C412, C505, C506, C512, C513, C605, C606, C611, C612	0.0056 uF, Poly
4	641-2700-033	12	C403, C404, C409, C410, C503, C504, C510, C511, C603, C604, C609, C610	0.033 uF, Poly
5	640-4900-018	2	C802, C803	18 pF, Ceramic, Axial
6	640-6000-100	54	C205, C206, C213, C214, C221, C222, C229, C230, C305, C306, C311, C313, C314, C315, C401, C402, C407, C408, C416, C418, C421, C425, C429, C431, C434, C438, C501, C502, C508, C509, C517, C519, C522, C526, C530, C532, C536, C539, C601, C602, C607, C608, C616, C618, C621, C625, C629, C631, C633, C634, C639, C640, C800, C805	10 uF, 16V, Axial
7	640-6100-010	1	C1101	10 uF, 35V, Axial
8	640-2800-220	6	C413, C427, C514, C528, C613, C627	22 uF, 16V, Radial
9	640-2900-008	10	C423, C436, C524, C537, C623, C637, C708, C709, C1102, C1411	100 uF, 16V, Radial
10	640-2900-010	1	C2302	100 uF, 50V, Radial
11	640-2900-047	3	C1406, C1409, C1415	470 uF, 25V, Radial
12	640-2900-680	1	C1413	6800 uF, 25V

Audioaccess Parts List
PX600 Main Board Rev E1
926-0600-000-E1
Revised 6/27/97

ITEM	AA Part #	Qty	Reference Designator	Description
13	640-2900-220	1	C1408	2200 uF, 25V
14				
15	642-1000-001	1	C1401	0.47 uF X Rated
16	620-5819-000	1	D1102	1N5819
17	620-2002-000	12	D1101, D1103, D1104, D1105, D1201, D1202, D1203, D1204, D1205, D1206, D1207, D1401	1N4002
18	620-3157-000	2	D1402, D1403	Bridge Rectifier, 1.5A
19	620-3155-000	1	D1404	Bridge Rectifier, 4A
20	690-01000-00	1	F1101	Fuse Holder
21	320-00012-00	4	P1401, P1402, P1403, P1404	Ribbon Holder, 2mm, 12 Cond
22	320-00010-00	2	P106, P111	Ribbon Holder, 2mm, 10 Cond
23	647-1000-270	21	FI47, FI48, FI49, FI50, FI51, FI52, FI53, FI54, FI56, FI57, FI59, FI60, FI61, FI63, FI64, FI65, FI68, FI69, FI1101, FI1102, FI1103	Filter, Ferrite, 270 pF, 16V
24	667-2001-004	1	J11	Header,4X.156 Male, RA, Plug.
25	667-3500-001	18	J1101, J1102, J1103, J1104, J1105, J1201, J1202, J1203, J1204, J1205, J1206, J1207, J1208, J1209, J1210, J1211, J1212, J1213	3.5 mm Phone Jack
26	667-3000-400	12	J201, J202, J203, J204, J301, J302, J401, J402, J501, J502, J601, J602	Quad RCA Jack
27	636-6000-000	2	K1101, K1102	Relay, DPDT, 5V
28	308-15012-00	1	K1401	Relay, SPST, 30A, 12V
29	646-1000-040	1	L1401	40 uH Toroid
30	645-1000-100	2	MOV1401, MOV1402	MOV 400 Volt
31				
32	667-2001-026	1	P6	Header 2X13X.1 Male RA
33	667-3800-010	14	P1, P2, P4, P5, P7, P8, P11, P12, P16, P17, P18, P19, P20, P21	Male Faston PCB
34	667-2000-003	1	P120	Header,1X3X.1 Male
35	667-2236-000	1	INSTALLED AT P120	Shunt Jumper 0.1
36	705-0600-000-A	4	P1401, P1402, P1403, P1404	12 Pin, 8.5" Ribbon Cable
37	705-0600-002-A	1	P106	10 Pin, 3.0" Ribbon Cable
38	705-0600-001-A	1	P111	10 Pin, 4.75" Ribbon Cable
39	667-5000-012	4	P1401A, P1402A, P1403A,P1404A	12 Pin Wire Trap
40	667-5000-010	2	P106A, P111A	10 Pin Wire Trap
41	624-0056-000	16	Q1102, Q1103, Q1106, Q1107, Q1202, Q1204, Q1206, Q1208, Q1210, Q1212, Q1219, Q1220, Q1221, Q1222, Q1223, Q1224	MPSA56

Audioaccess Parts List
PX600 Main Board Rev E1
926-0600-000-E1
Revised 6/27/97

ITEM	AA Part #	Qty	Reference Designator	Description
42	624-0006-000	16	Q1101, Q1104, Q1105, Q1201, Q1203, Q1205, Q1207, Q1209, Q1211, Q1213, Q1214, Q1215, Q1216, Q1217, Q1218, Q1401	MPSA06
43	656-2337-100	2	R1, R2	10K Ω X 9 SIP
44	651-0010-100	1	R1229	100 Ω, 5%, 1/8W, CF
45	651-0010-220	1	R1405	220 Ω, 5%, 1/8W, CF
46	651-0010-330	11	R226, R227, R230, R231, R233, R236, R237, R250, R316, R319, R320	330 Ω, 5%, 1/8W, CF
47	651-0010-390	1	R1402	390 Ω, 5%, 1/8W, CF
48	651-0010-470	26	R411, R415, R419, R423, R427, R431, R435, R439, R511, R515, R519, R523, R527, R531, R535, R539, R611, R615, R619, R623, R627, R631, R635, R637, R641, R643	470 Ω, 5%, 1/8W, CF
49	651-0010-680	1	R1404	680 Ω; 5%, 1/8W, CF
50	651-0020-100	63	R225, R228, R229, R232, R234, R235, R238, R239, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1019, R1101, R1103, R1105, R1107, R1108, R1109, R1117, R1121, R1122, R1123, R1124, R1201, R1202, R1203, R1204, R1206, R1207, R1208, R1209, R1211, R1212, R1213, R1214, R1216, R1217, R1218, R1219, R1221, R1222, R1223, R1224, R1226, R1227, R1228, R1230, R1239, R1242, R1245, R1248, R1251, R1254, R1401	1k Ω, 5%, 1/8W, CF
51	651-0020-300	1	R1403	3k Ω, 5%, 1/8W, CF

Audioaccess Parts List
PX600 Main Board Rev E1
926-0600-000-E1
Revised 6/27/97

ITEM	AA Part #	Qty	Reference Designator	Description
52	651-0030-100	73	R203, R204, R209, R210, R215, R216, R221, R222, R303, R304, R308, R412, R416, R420, R424, R428, R432, R436, R440, R512, R516, R520, R524, R528, R532, R536, R540, R612, R616, R620, R624, R628, R632, R636, R638, R642, R644, R801, R802, R803, R804, R805, R811, R1013, R1014, R1015, R1016, R1017, R1018, R1102, R1104, R1106, R1111, R1116, R1118, R1232, R1233, R1234, R1235, R1236, R1237, R1238, R1240, R1241, R1243, R1244, R1246, R1247, R1249, R1250, R1252, R1253, R1255	10k Ω, 5%, 1/8W, CF
53	651-0040-100	24	R201, R202, R207, R208, R213, R214, R219, R220, R301, R302, R307, R806, R807, R808, R809, R810, R1110, R1125, R1205, R1210, R1215, R1220, R1225, R1231	100k Ω, 5%, 1/8W, CF
54	651-0020-100	2	R717, R718	1.00k Ω, 1%, 1/8W, MF
55				
56	651-0020-150	2	R1113, R1115	1.5k Ω, 1/8W, 5%
57	679-1000-001	1	TP1	Test Point
58	605-0353-000	24	U201, U202, U203, U204, U301, U302, U403, U404, U407, U408, U409, U410, U503, U504, U507, U508, U509, U510, U603, U604, U607, U608, U609, U610	LF353N Dual JFET Opamp
59	605-7712-000	1	U702	RC5532N Bi-polar Opamp
60	605-6300-000	6	U405, U406, U505, U506, U605, U606	TEA 6300
61	605-4052-000	6	U401, U402, U501, U502, U601, U602	CD4052
62	605-2213-008	3	U999, U1201, U1202	74HC08
63	605-2213-574	2	U1001, U1002	74ALS574N
64	605-0004-000	1	U1203	74LS04N
65	605-2203-014	1	U904	74HC14
66	328-00008-00	1	U1106	8 Pin DIP Socket
67	605-2213-573	1	U802	74HC573N
68	605-2202-138	1	U901	74HC138
69	605-2213-245	1	U902	74HC245
70	605-0026-000	3	U1101, U1102, U1103	4N26
71	605-4051-000	1	U1003	CD4051
72	633-0317-000	2	U1401, U1402	LM317

Audioaccess Parts List
PX600 Main Board Rev E1
926-0600-000-E1
Revised 6/27/97

ITEM	AA Part #	Qty	Reference Designator	Description
73	605-7070-000	1	U800	MAX 707CPA
74	678-2247-068	1	U801	Socket 68 Pin PLCC
75	678-2247-028	2	U803, U804	28 Pin DIP Socket
76	631-2207-011	1	Y801	11.0592 MHz Crystal
77	680-2000-000	4		Heatsink T0-220
78	730-2117-000	12		Bolt 4-40X1/4" PHP CAD
79	736-2117-000	2		Nut, 4-40 KEP
80	770-3000-000	10		.25 x .25 Bracket Keystone #621
81	750-2700-002-E	1		PX600 Main PCB REV E
82	605-0751-000	1	INSTALL IN SOCKET U1106	DS75176BN
83		1	R1112	120 Ω, 5%, 1/8W, CF
84	320-52102-00	1	P9	HEADER, 1x2, RT ANG
85	135-30147-00	20	C1103, C1104, C1105, C1106, C1107, C1108, C1202, C1203, C1204, C1205, C1206, C1207, C1209, C1210, C1211, C1212 C1213, C1214, C1215, C1216	470Pf, 100V, Axial
86		1	C1208	.01uF, 50V, Axial
87	381-00020-00	7	F1102, F1201, F1202, F1203, F1204, F1205, F1206	.2A, Polyswitch
88	205-10068-00	2	D1109, D1110	TVS, 6.8V, 1500W
89	644-1000-015	1	D1108	TVS, 15V, 1500W
90	663-1000-100	2	F1301	Fuse clips

Audioaccess Bill of Materials
PX600 Multiroom Preamp/Controller - US Model Rev E1
Revised 7/10/97

RELEASED FOR MANUFACTURE
BY _____ 8/21/97

Level	Part Number	Rev	Qty	Description	
0	PX600	00	1	PX600 Multiroom Preamp	North American Version
1	900-0600-000	00	1	Kit,Shipping,PX600-US	
2	688-2500-000		1	Power Cord, 8 Ft. IEC, USA	
1	664-2101-200		1	Fuse, 5X20mm, 2A Slow Blow, UL	
1	380-00050-00		1	Fuse, 5x20mm, 500mA 250V, UL/CSA	
1	380-00160-00		1	Fuse, 5x20mm, 1.6A 250V, UL/CSA	
1	801-3150-000		1	Shipping Bag, Anti-Static, 24X24	
1	800-3160-000	00	1	Shipping Box, 20" X 23" X 11"	
1	805-3000-005	00	1	Shipping Foam, PX600/PX612	
1	820-0600-000	00	1	Instruction Sheet, PX600	
1	800-4000-000	00	1	Warranty Card	
1	825-0600-000		1	Installation Manual, PX600	
1	508-00041-00		1	Addendum, PX600 Installation Manual	
1	826-0600-000		1	Owner's Manual, PX600	
1	470-00042-00		1	Label, PX-600 120V, Interior Fuse Value	
1	700-1000-210		3	Wire Ass'y, Xantech IR Emitter	282-00 Mini Emitter
1	920-0600-000	02	1	Assembly, Final, PX600-US	Assembled and Tested
2	760-4600-006	G	1	Chassis, PX600	
2	905-0600-000	01	1	Kit, Chassis Hardware, PX600	
3	760-4600-005	E	1	Chassis, Top Cover, PX600	
3	690-3500-010		1	Conn. AC Male W/Switch & Fuse	
3	720-2500-010		4	Foot, Snap In, Gold	TAC 1319-03901
3	730-2320-000		12	Screw,#4X3/8" Blk, Sheet Metal	
3	730-2117-000		8	Screw,4-40X1/4" Phil Pan Zinc	
3	734-3500-004		8	Washer, #4 Internal Star	
3	730-2117-001		2	Screw,4-40X1/4" PH, Blk, Self Tp	
3	730-2117-003		7	Screw,4-40X5/8" PH PAN BLK MCH	
3	770-1200-000		7	Spacer,Nylon,4-40X5/16",Hex	Microplastics 14HTSP022
3	736-2117-000		7	Nut, KEP 4-40 X 1/4"	
3	730-2321-101		15	Screw,6-32X1/4" PH PAN TAP BLK	
3	700-0600-000	A	1	Wire Assy,3.0",BLK,18AWG, MF/MF	
3	700-0600-001	A	1	Wire Assy,3.2",WHT,18AWG, MF/MF	
3	700-0600-002	A	1	Wire Assy,3.5",G/Y,18AWG,RT/ST	
3	458-00041-00		1	Wire Assy, AWG26, F-F, 12" Wht	
3	734-3500-006		1	Washer, #6 Internal Star	
3	730-2330-000		1	Screw,6-32X3/4", PH PAN BLK MCH	
3	736-2117-001		2	Nut, KEP 6-32 X 5/16"	
3	730-2321-001		2	Screw,6-32X3/8" PH PAN BLK	
3	735-4500-000		7	Cable Tie, 4"	
3	736-2200-000		2	Nut, Nylock, hex, 6-32	
3	734-1000-010		2	Washer, Rubber Grommet, Keystone #730	
3	667-1000-006		1	Screw Terminal, 4 Pos Plugable	
2	625-3000-020	A	1	Transformer, PX600 120V UL/CSA	
2	907-0600-000	00	1	Kit, Chassis, ID, PX600-US	
3	690-3000-001		1	Conn. AC Female Receptacle	Power Dynamics PD-15-1
3	700-0600-004	A	1	Wire Assy,5.0",BLK,18AWG,MF/SF	
3	700-0600-005	A	1	Wire Assy,5.0",WHT,18AWG,MF/SF	
3	700-0600-006	A	1	Wire Assy,5.0",G/Y,18AWG,RT/ST	
2	925-0600-000	E0	1	Assembly,Board,AT,PX600 Main	
3	926-0600-000	E0	1	Assembly,Board,TK,PX600 Main	

Audioaccess Bill of Materials
PX600 Multiroom Preamp/Controller - US Model Rev E1
Revised 7/10/97

Level	Part Number	Rev	Qty	Description	
3	610-2712-000		1	I.C. 27C512-200	
3	606-1244-000		1	BQ4011Y-200 (Static RAM)	
3	606-8055-000		1	I.C. 80C552-4A68 Signetics	
2	930-0600-001	00	1	Assembly, Mech, AT, PX600 Frnt Pl	
3	906-0600-000	00	1	Kit, Chassis, PX600 Front Panel	
4	741-1000-021	00	1	Knob, PX600, Modified	
5	741-1000-020		1	Knob, TAC AP2500	TAC 1630-04902
5	401-0600-000		1	Printing, PX-600 Knob	
4	640-00125-00		1	Spacer, Nylon Rnd, .1875" x .125"	
4	780-0600-001	00	6	Pushbutton Bezel, Modified	
5	780-0600-000		6	Pushbutton Bezel, TAC	TAC 1742-08302
4	780-0600-000		2	Pushbutton Bezel, TAC	TAC 1742-08302
4	780-0600-002		8	Bezel Light Pipe, TAC	TAC 1732-08801
4	740-0600-000		8	Pushbutton Switch Cap, TAC	TAC 1662-66902
4	735-0100-000	A	1	Adhesive, Die Cut, PX600 FP	
4	780-0600-100		1	Window, IR	TAC 1532-21101
4	770-1500-100		8	Spacer, NYLON, T1 LED, .20"	
4	736-2117-000		8	Nut, KEP 4-40 X 1/4"	
4	730-2321-101		7	Screw, 6-32X1/4" PH PAN TAP BLK	
4	780-0600-050		1	End Cap, Right TAC 90 mm	TAC 1562-08302
4	780-0600-051		1	End Cap, Left TAC 90 mm	TAC 1562-08202
4	705-1000-850	A	1	Rib Ass'y, 26 Pin, F-F, 13"	
4	760-4600-001	C	1	Chassis, PX600 Z Bracket	
4	760-4600-002	B	1	Chassis, PX600 Front Panel	
4	760-4600-000	D	1	Chassis, PX600 Pot Mnt Bracket	
3	925-0600-001	D0	1	Assembly, Board, AT, PX600 FP	
4	926-0600-001	D0	1	Assembly, Board, TK, PX600 FP	

Audioaccess Bill of Materials
PX600 Multiroom Preamp/Controller - Non US Model Rev E1
Revised 7/16/97

Level	Part Number	Rev	Qty	Description	
0	PX600-NUS	00	1	PX600 Multiroom Preamp	Export Version
1	900-0600-001	00	1	Kit,Shipping,PX600-NUS	
2	664-2101-100		1	Fuse, 5X20mm, T1A, SEMKO	
2	380-10050-00		1	Fuse, 5x20mm, 500mA 250V, SEMKO	
2	380-10160-00		1	Fuse, 5x20mm, 1.6A 250V, SEMKO	
2	190-20672-00		1	Cable Core, w/hldr, 0.390"/110 ohm	
2	190-20642-00		1	Cable Core, w/hldr, 0.250"/130 ohm	
2	474-02001-00		1	Label, CE, Outer Packaging	
2	507-00043-00		1	Installation procedure, FC cable clamp	
1	801-3150-000		1	Shipping Bag, Anti-Static, 24X24	
1	800-3160-000	00	1	Shipping Box, PX600/PX612	
1	805-3000-005	00	1	Shipping Foam, PX600/PX612	
1	820-0600-000	00	1	Instruction Sheet, PX600	
1	800-4000-000	00	1	Warranty Card	
1	825-0600-000		1	Installation Manual, PX-600	
1	508-00041-00		1	Addendum, PX600 Installation Manual	
1	826-0600-000		1	Owner's Manual, PX-600	
1	700-1000-210		3	Wire Assy, Xantech IR Emitter	
1	920-0600-001	00	1	Assembly, Final, PX600-NUS	Assembled and Tested
2	760-4600-009	D	1	Chassis, PX600-NUS	
2	905-0600-000	00	1	Kit, Chassis Hardware, PX600	
3	760-4600-005	E	1	Chassis, Top Cover, PX600	
3	690-3500-010		1	Conn. AC Male W/Switch & Fuse	
3	720-2500-010		4	Foot, Snap In, Gold	TAC 1319-03901
3	730-2320-000		12	Screw,#4X3/8" Blk, Sheet Metal	
3	730-2117-000		8	Screw,4-40X1/4" Phil Pan Zinc	
3	734-3500-004		8	Washer, #4 Internal Star	
3	730-2117-001		2	Screw,4-40X1/4" PH, Blk, Self Tp	
3	730-2117-003		7	Screw,4-40X5/8" PH PAN BLK MCH	
3	770-1200-000		7	Spacer,Nylon,4-40X5/16",Hex	Microplastics 14HTSP022
3	736-2117-000		7	Nut, KEP 4-40 X 1/4"	
3	730-2321-101		15	Screw,6-32X1/4" PH PAN TAP BLK	
3	700-0600-000	A	1	Wire Assy,3.0",BLK,18AWG, MF/MF	
3	700-0600-001	A	1	Wire Assy,3.2",WHT,18AWG, MF/MF	
3	700-0600-002	A	1	Wire Assy,3.5",G/Y,18AWG,RT/ST	
3	458-00041-00		1	Wire Assy, AWG26, F-F, 12" Wht	
3	734-3500-006		1	Washer, #6 Internal Star	
3	730-2330-000		1	Screw,6-32X3/4", PHIL PAN ZINC	
3	736-2117-001		2	Nut, KEP 6-32 X 5/16"	
3	730-2321-001		2	Screw,6-32X3/8" PH PAN BLK MCH	
3	735-4500-000		7	Cable Tie, 4"	
3	736-2200-000		2	Nut, Nylock, Hex, 6-32	
3	734-1000-010		2	Washer, Rubber Grommet, Keystone #730	
3	667-1000-006		1	Screw Terminal, 4 Pos Plugable	
3	470-00043-00		1	Label, PX-600 230V, Interior Fuse Value	
3	472-00043-00		1	Label, PX-600 230V, Exterior Fuse Value	
3	472-02001-00		1	Label, SEMKO	

Audioaccess Bill of Materials
PX600 Multiroom Preamp/Controller - Non US Model Rev E1
Revised 7/16/97

Level	Part Number	Rev	Qty	Description	
3	473-02001-00		1	Label, CE, Product	
2	371-00043-00		1	Transformer, PX600 230V SEMKO	
3	690-3550-000		1	Conn., AC Female 3 Prong, IEC	
3	700-0600-004	A	1	Wire Assy,5.0",BLK,18AWG,MF/SF	
3	700-0600-005	A	1	Wire Assy,5.0",WHT,18AWG,MF/SF	
3	700-0600-006	A	1	Wire Assy,5.0",G/Y,18AWG,RT/ST	
2	925-0600-000	E0	1	Assembly,Board,AT,PX600 Main	
3	926-0600-000	E0	1	Assembly,Board,TK,PX600 Main	
3	610-2712-000		1	I.C. 27C512-200	
3	606-1244-000		1	BQ4011Y-200 (Static RAM)	
3	606-8055-000		1	I.C. 80C552-4A68 Signetics	
2	930-0600-001	00	1	Assembly, Mech, AT, PX600 Frnt Pl	
3	906-0600-000	00	1	Kit, Chassis, PX600 Front Panel	
4	741-1000-021	00	1	Knob, PX600, Modified	
5	741-1000-020		1	Knob, TAC AP2500	TAC 1630-04902
5	401-0600-000		1	Printing, PX-600 Knob	
4	640-00125-00		1	Spacer, Nylon Rnd, .1875" x .125"	
4	780-0600-001	00	6	Pushbutton Bezel, Modified	
5	780-0600-000		6	Pushbutton Bezel, TAC	TAC 1742-08302
4	780-0600-000		2	Pushbutton Bezel, TAC	TAC 1742-08302
4	780-0600-002		8	Bezel Light Pipe, TAC	TAC 1732-08801
4	740-0600-000		8	Pushbutton Switch Cap, TAC	TAC 1662-66902
4	735-0100-000	A	1	Adhesive, Die Cut, PX600 FP	
4	780-0600-100		1	Window, IR	TAC 1532-21101
4	770-1500-100		8	Spacer, NYLON, T1 LED, .20"	
4	736-2117-000		8	Nut, KEP 4-40 X 1/4"	
4	730-2321-101		7	Screw, 6-32X1/4" PH PAN TAP BLK	
4	780-0600-050		1	End Cap, Right TAC 90 mm	TAC 1562-08302
4	780-0600-051		1	End Cap, Left TAC 90 mm	TAC 1562-08202
4	705-1000-850	A	1	Rib Ass'y, 26 Pin, F-F, 13"	
4	760-4600-001	B	1	Chassis, PX600 Z Bracket	
4	760-4600-002	B	1	Chassis, PX600 Front Panel	
4	760-4600-000	B	1	Chassis, PX600 Pot Mnt Bracket	
3	925-0600-001	D0	1	Assembly, Board, AT, PX600 FP	
4	926-0600-001	D0	1	Assembly, Board, TK, PX600 FP	

Part Number PX-600 MULTI-ROOM PREAMP CONTROLLER
Revision Level: 00 Engineering Status: AL Comment: NORTH AMERICAN VERSION

Level	Line	Rev	Part Number	Description	Extended Quantity	U/M	Material	Material OH	Labor	Labor OH	Standard Cost
Top			PX-600	MULTI-ROOM PREAMP	1	EA					
1	10		688-2500-000	POWER CORD, 8 FT.	1	EA	1.3500				1.3500
1	20		664-2101-200	FUSE, 5x20MM, 2A	1	EA	.4512				.4512
1	25		380-00050-00	FUSE,5x20mm,.500m	1	EA					
1	28		380-00160-00	FUSE,5x20mm,1.6A	1	EA	.2800				.2800
1	30		380-00050-00	FUSE,5x20mm,.500m	1	EA					
1	40		380-00160-00	FUSE,5x20mm,1.6A	1	EA	.2800				.2800
1	50		801-3150-000	SHIPPING BAG, ANT	1	EA	.5503				.5503
1	60		800-3160-000-00	SHIPPING BOX, 20"	1	EA	4.5000				4.5000
1	70		805-3000-005-00	SHIPPING FOAM, PX	1	EA	9.0208				9.0208
1	80		820-0600-000-00	INSTRUCTION SHEET	1	EA					
1	90		800-4000-000-00	WARRANTY CARD	1	EA					
1	100		825-0600-000-00	INSTALLATION MANU	1	EA	.9580				.9580
1	110		826-0600-000-00	OWNER'S MANUAL, P	1	EA	.9082				.9082
1	120		470-00042-00	LABEL,500mA 250V	1	EA					
1	130		700-1000-210	WIRE ASS'Y, ZANTE	3	EA	14.0076				14.0076
1	140		920-0600-000-02	ASS'Y, FINAL, PX6	1	EA					
2	10		760-4600-006-G	CHASSIS,PX600-US	1	EA					
2	20		905-0600-000-01	KIT, CHASSIS HARD	1	EA					
3	10		760-4600-005-E	CHASSIS, TOP COVE	1	EA	10.2400				10.2400
3	20		690-3500-010	CONN. AC MALE W/S	1	EA	10.3300				10.3300
3	30		720-2500-010	FOOT, SNAP IN, GO	4	EA	3.5600				3.5600
3	40		730-2320-000	SCREW,#4X3/8" BLK	12	EA	.2640				.2640
3	50		730-2117-000	SCREW, 4-40X1/4"	8	EA	.0400				.0400
3	60		734-3500-004	WASHER, #4 INTERN	8	EA	.0280				.0280
3	70		730-2117-001	SCREW, 4-40X1/4"P	2	EA	.0490				.0490
3	80		730-2117-003	SCREW, 4-40x5/8"	7	EA	.1190				.1190
3	90		770-1200-000	SPACER, NYLON, 4-	7	EA	.6160				.6160
3	100		736-2117-000	NUT, KEP 4-40 X 1	7	EA	.0980				.0980
3	110		730-2321-101	SCREW, 6-32x1/4"P	15	EA	.3750				.3750
3	120		700-0600-000-A	WIRE ASS'Y,3.0",B	1	EA	.4700				.4700
3	130		700-0600-001-A	WIRE ASSY,3.2",WH	1	EA	.4700				.4700
3	140		700-0600-002-A	WIRE ASSY,3.5",G/	1	EA	.2900				.2900
3	150		700-0600-003-A	WIRE ASSY,3.0:,G/	1	EA	.4300				.4300
3	160		734-3500-006	WASHER, #6 INTERN	1	EA	.0040				.0040
3	170		730-2330-000	SCREW,6-32X3/4",P	1	EA	.0100				.0100
3	180		736-2117-001	NUT, KEP 6-32 X 5	2	EA	.0300				.0300
3	190		730-2321-001	SCREW,6-32x3/8" P	2	EA	.0300				.0300
3	200		735-4500-000	CABLE TIE, 4"	7	EA	.1162				.1162
3	210		736-2200-000	NUT, NYLOCK, HEX,	2	EA	.0190				.0190
3	220		734-1000-010	WASHER, RUBBER GR	2	EA	.0650				.0650
3	230		667-1000-006	SCREW TERMINAL, 4	1	EA	1.7500				1.7500
2	30	1	370-00042-00	TRANSFORMER, PX60	1	EA					
2	40		907-0600-000-00	KIT, CHASSIS, ID,	1	EA					
3	10		690-3000-001	CONN. AC FEMALE R	1	EA	.5500				.5500
3	20		700-0600-004-A	WIRE ASSY,5.0",BL	1	EA	.4800				.4800
3	30		700-0600-005-A	WIRE ASSY,5.0",WH	1	EA	.4800				.4800
3	40		700-0600-006-A	WIRE ASSY,5.0",G/	1	EA	.3000				.3000

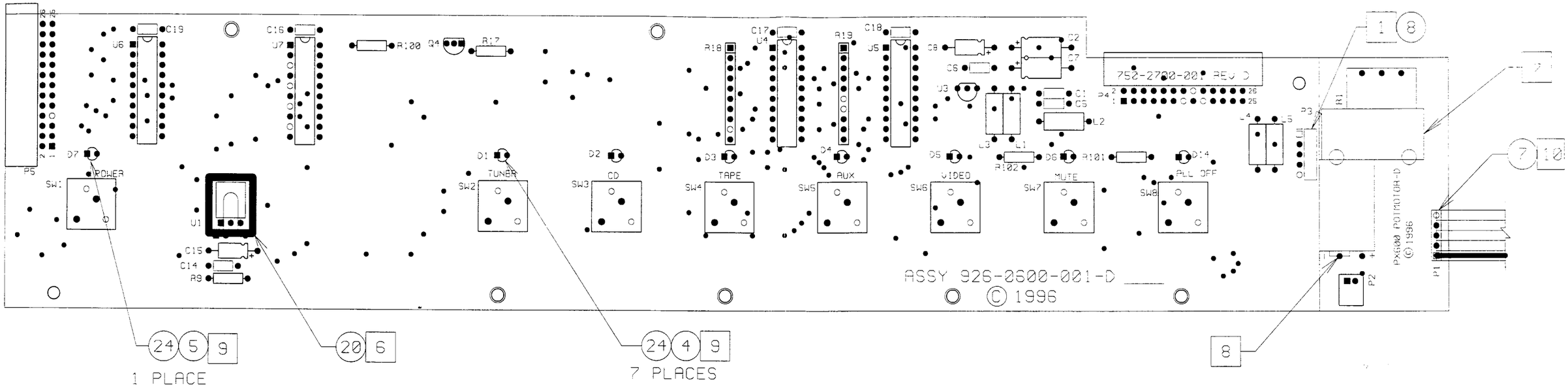
Part Number PX-600 MULTI-ROOM PREAMP CONTROLLER (Continued)
Revision Level: 00 Engineering Status: AL Comment: NORTH AMERICAN VERSION

Level	Line	Rev	Part Number	Description	Extended Quantity	U/M	Material	Material OH	Labor	Labor OH	Standard Cost
2	50	1	925-0600-000-E0	ASS'Y, BOARD, AT,	1	EA					
3	10		926-0600-000-E0	PX600 MAIN BOARD	1	EA					
3	20		610-2712-000	I.C. 27C512-200,	1	EA	2.6500				2.6500
3	30		606-1244-000	I.C. BQ4011Y-200,	1	EA	20.0000				20.0000
3	40		606-8055-000	I.C. 80C552-4A68	1	EA	9.3178				9.3178
2	60		930-0600-001-00	ASS'Y, MECH, AT,	1	EA					
3	10		906-0600-000-00	KIT, CHASSIS, PX6	1	EA					
4	5		741-1000-021-00	KNOB, PX600, MODI	1	EA					
5	10		741-1000-020	KNOB, TAC AP2500	1	EA	3.1731				3.1731
5	20		401-0600-000	PRINTING, PX600 K	1	EA					
4	20		780-0600-000	PUSHBUTTON BEZEL,	8	EA	.8208				.8208
4	30		780-0600-002	BEZEL LIGHT PIPE,	8	EA	.7384				.7384
4	40		740-0600-000	PUSHBUTTON SWITCH	8	EA	1.3128				1.3128
4	60		735-0100-000-A	ADHESIVE, DIE CUT	1	EA	.4900				.4900
4	70		780-0600-100	WINDOW, IR	1	EA	.1538				.1538
4	80		770-1500-100	SPACER, NYLON, T1	8	EA	.4800				.4800
4	90		736-2117-000	NUT, KEP 4-40 X 1	8	EA	.1120				.1120
4	100		730-2321-101	SCREW, 6-32x1/4"P	7	EA	.1750				.1750
4	110		780-0600-050	END CAP, RIGHT, T	1	EA	.2046				.2046
4	120		780-0600-051	END CAP, LEFT, TA	1	EA	.2046				.2046
4	130		705-1000-850-A	RIB ASS'Y, 26 PIN	1	EA	5.1200				5.1200
4	140		760-4600-001-D	CHASSIS, PX600 Z	1	EA	5.4300				5.4300
4	150		760-4600-002-B	CHASSIS, PX-600 F	1	EA	15.8000				15.8000
4	160		760-4600-000-D	CHASSIS, PX600 PO	1	EA	2.2100				2.2100
3	20	1	926-0600-001-D0	PX600 FRONT PANEL	1	EA					
						BIN	.0000	.0000	.0000	.0000	.0000
						NON-BIN	131.9122	.0000	.0000	.0000	131.9122
						TOTAL	131.9122	.0000	.0000	.0000	131.9122

Part Number PX-600/NUS CE MULTIROOM PREAMP/CONTROLLER - NON US
Revision Level: 00 Engineering Status: AL Comment:

Level	Line	Rev	Part Number	Description	Extended Quantity	U/M	Material	Material OH	Labor	Labor OH	Standard Cost
Top			PX-600/NUS CE	MULTIROOM PREAMP/	1	EA					
1	10		900-0600-001-E0	KIT, SHIPPING PX-	1	EA					
2	10		664-2101-100	FUSE, 5x20MM, T1A	1	EA	.4000				.4000
2	20		380-10050-00	FUSE, 5X20mm, 500	1	EA	.2800				.2800
2	30		380-00160-00	FUSE,5x20mm,1.6A	1	EA	.2800				.2800
2	33		190-20672-00	CABLE CORE, W/HLD	1	EA					
2	37		190-20642-00	CABLE CORE, W/HLD	1	EA					
2	60		474-02001-00	LABEL, CE OUTER P	1	EA	.0460				.0460
2	70		508-00043-00	DECLARATION OF CO	1	EA					
2	80		507-00043-00	INSTRC SHEET,PX60	1	EA					
1	20		801-3150-000	SHIPPING BAG, ANT	1	EA	.5503				.5503
1	30		800-3160-000-00	SHIPPING BOX, 20"	1	EA	4.5000				4.5000
1	40		805-3000-005-00	SHIPPING FOAM, PX	1	EA	9.0208				9.0208
1	50		820-0600-000-00	INSTRUCTION SHEET	1	EA					
1	60		800-4000-000-00	WARRANTY CARD	1	EA					
1	70		505-00041-00	INSTALLATION MANU	1	EA	.9580				.9580
1	80		826-0600-000-00	OWNER'S MANUAL, P	1	EA	.9082				.9082
1	90		700-1000-210	WIRE ASS'Y, ZANTE	3	EA	14.0076				14.0076
1	100		920-0600-002-00	ASS'Y, FINAL, PX6	1	EA					
2	10		760-4600-009-D	CHASSIS, PX-600/N	1	EA					
2	20		905-0600-000-02	KIT, CHASSIS HDWR	1	EA					
3	10		760-4600-005-E	CHASSIS, TOP COVE	1	EA	10.2400				10.2400
3	20		690-3500-010	CONN. AC MALE W/S	1	EA	10.3300				10.3300
3	30		720-2500-010	FOOT, SNAP IN, GO	4	EA	3.5600				3.5600
3	40		730-2320-000	SCREW,#4X3/8" BLK	12	EA	.2640				.2640
3	50		730-2117-000	SCREW, 4-40X1/4"	8	EA	.0400				.0400
3	60		734-3500-004	WASHER, #4 INTERN	8	EA	.0280				.0280
3	70		730-2117-001	SCREW, 4-40X1/4"P	2	EA	.0490				.0490
3	80		730-2117-003	SCREW, 4-40x5/8"	7	EA	.1190				.1190
3	90		770-1200-000	SPACER, NYLON, 4-	7	EA	.6160				.6160
3	100		736-2117-000	NUT, KEP 4-40 X 1	7	EA	.0980				.0980
3	110		730-2321-101	SCREW, 6-32x1/4"P	15	EA	.3750				.3750
3	120		700-0600-000-A	WIRE ASS'Y,3.0",B	1	EA	.4700				.4700
3	130		700-0600-001-A	WIRE ASSY,3.2",WH	1	EA	.4700				.4700
3	140		700-0600-002-A	WIRE ASSY,3.5",G/	1	EA	.2900				.2900
3	150		458-00041-00	WIRE ASS'Y, AWG26	1	EA					
3	160		734-3500-006	WASHER, #6 INTERN	1	EA	.0040				.0040
3	170		730-2330-000	SCREW,6-32X3/4",P	1	EA	.0100				.0100
3	180		736-2117-001	NUT, KEP 6-32 X 5	2	EA	.0300				.0300
3	190		730-2321-001	SCREW,6-32x3/8" P	2	EA	.0300				.0300
3	200		735-4500-000	CABLE TIE, 4"	7	EA	.1162				.1162
3	210		736-2200-000	NUT, NYLOCK, HEX,	2	EA	.0190				.0190
3	220		734-1000-010	WASHER, RUBBER GR	2	EA	.0650				.0650
3	230		667-1000-006	SCREW TERMINAL, 4	1	EA	1.7500				1.7500
3	240		470-00043-00	LABEL, PX-600 230	1	EA					
3	250		472-00043-00	LABEL, PX-600 230	1	EA					
3	260		472-02001-00	LABEL, SEMKO	1	EA	.1000				.1000
3	270		473-02001-00	LABEL, CE PRODUCT	1	EA	.1000				.1000

Level	Line	Rev	Part Number	Description	Extended Quantity	U/M	Material	Material OH	Labor	Labor OH	Standard Cost
3	275		690-3550-000	CONN. AC FEMALE 3	1	EA	1.6500				1.6500
3	280		690-3550-000	CONN. AC FEMALE 3	1	EA	1.6500				1.6500
3	290		700-0600-004-A	WIRE ASSY,5.0",BL	1	EA	.4800				.4800
3	300		700-0600-005-A	WIRE ASSY,5.0",WH	1	EA	.4800				.4800
3	310		700-0600-006-A	WIRE ASSY,5.0",G/	1	EA	.3000				.3000
2	30		371-00043-00	XFMR, PX-600 230V	1	EA					
2	40		925-0600-000-E0	ASS'Y, BOARD, AT,	1	EA					
3	10		926-0600-000-E0	PX600 MAIN BOARD	1	EA					
3	20		610-2712-000	I.C. 27C512-200,	1	EA	2.6500				2.6500
3	30		606-1244-000	I.C. BQ4011Y-200,	1	EA	20.0000				20.0000
3	40		606-8055-000	I.C. 80C552-4A68	1	EA	9.3178				9.3178
2	50		930-0600-001-01	ASS'Y, MECH, AT,	1	EA					
3	10		906-0600-000-01	KIT, CHASSIS, PX6	1	EA					
4	10		741-1000-021-01	KNOB, PX600/NUS C	1	EA					
5	10		741-1000-020	KNOB, TAC AP2500	1	EA	3.1731				3.1731
5	20		401-0600-000	PRINTING, PX600 K	1	EA					
4	20		780-0600-000	PUSHBUTTON BEZEL,	8	EA	.8208				.8208
4	30		780-0600-002	BEZEL LIGHT PIPE,	8	EA	.7384				.7384
4	35		780-0600-002	BEZEL LIGHT PIPE,	8	EA	.7384				.7384
4	40		740-0600-000	PUSHBUTTON SWITCH	8	EA	1.3128				1.3128
4	50		735-0100-000-A	ADHESIVE, DIE CUT	1	EA	.4900				.4900
4	60		780-0600-100	WINDOW, IR	1	EA	.1538				.1538
4	70		770-1500-100	SPACER, NYLON, T1	8	EA	.4800				.4800
4	80		736-2117-000	NUT, KEP 4-40 X 1	8	EA	.1120				.1120
4	90		730-2321-101	SCREW, 6-32x1/4"P	7	EA	.1750				.1750
4	100		780-0600-050	END CAP, RIGHT, T	1	EA	.2046				.2046
4	110		780-0600-051	END CAP, LEFT, TA	1	EA	.2046				.2046
4	120		705-1000-850-A	RIB ASS'Y, 26 PIN	1	EA	5.1200				5.1200
4	130		760-4600-001-B	CHASSIS, PX600 Z	1	EA	5.4300				5.4300
4	140		760-4600-002-B	CHASSIS, PX-600 F	1	EA	15.8000				15.8000
4	150		760-4600-000-D	CHASSIS, PX600 PO	1	EA	2.2100				2.2100
3	20		926-0600-001-D0	PX600 FRONT PANEL	1	EA					
				BIN			.0000	.0000	.0000	.0000	.0000
				NON-BIN			133.8154	.0000	.0000	.0000	133.8154
				TOTAL			133.8154	.0000	.0000	.0000	133.8154



NOTES:

UNLESS OTHERWISE SPECIFIED

1. CONNECTOR P3 TO BE MOUNTED TO THE SOLDER SIDE OF THE PCB. THE LOCKING RAMP SHOULD BE TOWARD THE RIGHT EDGE OF THE PCB WHEN VIEWED FROM THE FRONT.
2. SQUARE PADS ON THRU HOLE PARTS (ie.CONNECTORS, DIPS, SIPS) DENOTES PIN 1.
3. ASSEMBLE AND SOLDER PER ANSI/IPC-A-610B.
4. ALL BOARDS REQUIRE COMPLETE AND THOROUGH VISUAL INSPECTION.
5. THE SECTIONS OF THE PCB SHOULD NOT BE BROKEN APART.
6. U1 SHOULD BE MOUNTED WITH ITS BODY AT A RIGHT ANGLE TO THE PCB. THE BOTTOM SHOULD BE .350" OFF THE SURFACE OF THE PCB.
7. POT HARDWARE MUST BE PROVIDED WITH THE ASSEMBLED PCB.
8. THE MOTOR TERMINALS OF R1 SHOULD BE CONNECTED TO THE PADS ON THE PCB WITH SHORT LENGTHS OF BUS WIRE. THE LOWER MOTOR TERMINAL SHOULD BE CONNECTED TO THE PAD DIRECTLY BENEATH IT, AND THE OTHER TERMINAL SHOULD BE CONNECTED TO THE OTHER PAD.
9. LEDS TO BE MOUNTED WITH SPACERS BETWEEN LED BASE AND PCB.
10. THE 5 PIN CABLE ASSEMBLY SHOULD BE SOLDERED AT P1, PROJECTING OUT FROM THE COMPONENT SIDE OF THE PCB. OBSERVE PIN 1 POLARITY. STRIP ON CABLE SHOULD BE VISIBLE WHEN CABLE IS ORIENTED AS SHOWN ON DRAWING.

AUDIOACCESS
26046 EDEN LANDING RD.
HAYWARD, CA. 94545
(510) 293-0183

PRINTED CIRCUIT BOARD ARTWORK

750-2700-001 REV D0

DATE: OCTOBER 22, 1996

DRAWN BY: LAURIE MILLE

SILKSCREEN

RELEASED FOR MANUFACTURE
BY 10 Oct 23 1996

PX-600 Front Panel
Rev C0

RELEASED FOR MANUFACTURE 2-27-97

Audioaccess Parts List
PX600 Front Panel Rev D0
926-0600-001-D0
Revised 11/13/96

ITEM	AA Part #	Qty	Reference Designator	Description
1	640-7000-001	8	C1, C5, C6, C14, C16, C17, C18, C19	0.1 uF, 50V, Ceramic, Axial
2	640-5000-330	2	C2, C7	33 uF, 16V, Al. Electro., Axial
3	640-6000-100	2	C8, C15	10 uF, 16V, Al. Electro., Axial
4	621-2009-000	7	D1, D2, D3, D4, D5, D7, D14	LED, Yellow, T1
5	621-2008-000	1	D6	LED, Red, T1
6	647-1000-000	5	L1, L2, L3, L4, L5	2 uH, 7A, Ferrite Bead
7	705-1001-105-A	1	P1	Cable Assembly, 5 Pin
8	667-2003-005	1	P3	Header, 5 X .1, Male, Locking
9	667-2001-026	2	P4, P5	Header, 2 X 13 X .1, Male, RA
10	624-0006-000	1	Q4	MPSA06
11	660-1000-141	1	R1	Pot, 10k Ω, Motorized
12	650-2349-100	1	R9	100 Ω, 1/4 W, 5%, CF
13	650-2350-010	1	R17	1k Ω. 1/4 W, 5%, CF
14	656-2337-100	1	R18	10k Ω X 9 SIP
15	656-2337-018	1	R19	180 Ω X 9 SIP
16	650-2350-100	1	R100	10k Ω, 1/4 W, 5%, CF
17	650-2349-180	1	R101	180 Ω, 1/4 W, 5%, CF
18	650-2349-820	1	R102	820 Ω, 1/4 W, 5%, CF
19	745-1000-300	8	SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8	E-Switch 320.02 E1-1 Black
20	665-2500-100	1	U1	Sharp IS1U60
21	633-3400-005	1	U3	LM78L05ACZ, 5V, T0-92, Reg.
22	605-2213-244	3	U4, U6, U7	74HC244
23	605-2201-374	1	U5	74LS374
24	770-1500-350	8		LED Spacers, 0.350"
25	750-2700-001-D	1	PCB	PCB, PX600 Front Panel, Rev D
26	320-52102-00	1	P2	HEADER, 1x2, RT ANG

Audioaccess Parts List
PX600 Front Panel Rev D0
926-0600-001-D0
Revised 11/13/96

RELEASED FOR MANUFACTURE
2 2797

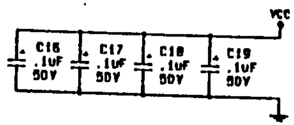
ITEM	AA Part #	Qty	Reference Designator	Description
1	640-7000-001	8	C1, C5, C6, C14, C16, C17, C18, C19	0.1 uF, 50V, Ceramic, Axial
2	640-5000-330	2	C2, C7	33 uF, 16V, Al. Electro., Axial
3	640-6000-100	2	C8, C15	10 uF, 16V, Al. Electro., Axial
4	621-2009-000	7	D1, D2, D3, D4, D5, D7, D14	LED, Yellow, T1
5	621-2008-000	1	D6	LED, Red, T1
6	647-1000-000	5	L1, L2, L3, L4, L5	2 uH, 7A, Ferrite Bead
7	705-1001-105-A	1	P1	Cable Assembly, 5 Pin
8	667-2003-005	1	P3	Header, 5 X .1, Male, Locking
9	667-2001-026	2	P4, P5	Header, 2 X 13 X .1, Male, RA
10	624-0006-000	1	Q4	MPSA06
11	660-1000-141	1	R1	Pot, 10k Ω, Motorized
12	650-2349-100	1	R9	100 Ω, 1/4 W, 5%, CF
13	650-2350-010	1	R17	1k Ω. 1/4 W, 5%, CF
14	656-2337-100	1	R18	10k Ω X 9 SIP
15	656-2337-018	1	R19	180 Ω X 9 SIP
16	650-2350-100	1	R100	10k Ω, 1/4 W, 5%, CF
17	650-2349-180	1	R101	180 Ω, 1/4 W, 5%, CF
18	650-2349-820	1	R102	820 Ω, 1/4 W, 5%, CF
19	745-1000-300	8	SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8	E-Switch 320.02 E1-1 Black
20	665-2500-100	1	U1	Sharp IS1U60
21	633-3400-005	1	U3	LM78L05ACZ, 5V, T0-92, Reg.
22	605-2213-244	3	U4, U6, U7	74HC244
23	605-2201-374	1	U5	74LS374
24	770-1500-350	8		LED Spacers, 0.350"
25	750-2700-001-D	1	PCB	PCB, PX600 Front Panel, Rev D
26	320-52102-00	1	P2	HEADER, 1x2, RT ANG

REVISIONS			
REV	DESCRIPTION OF CHANGE OR PREVIOUS STATE	DRAWN	DATE
A0	FIRST PROTOTYPE	LAN	8/8/93
B0	SECOND PROTOTYPE	LAN	3-2-94

IC CHART

TYPE	VOLTAGE/PIN NO.		REFERENCE DESIGNATOR CHART	BYPASS CAP
	VCC	GND		
74HC244	20	10	U4, U6, U7	C16, C17, C19
74LS374	20	10	U5	C18

LAST USED
C19
D7
L5
P5
Q4
R19
SW8
U7



NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/4W,5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.

RELEASED FOR MANUFACTURE

BY [signature] 7/29/94

SIGNATURE		DATE
DRAWN		

AUDIOACCESS

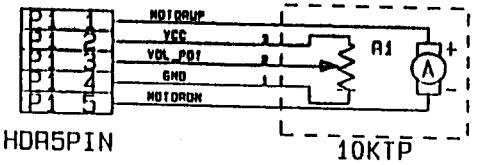
PX600 FRONT PANEL

PX600FPB.SCH

REV. C0

SHEET 1 OF 3

PX600 FRONT PANEL 7-29-94

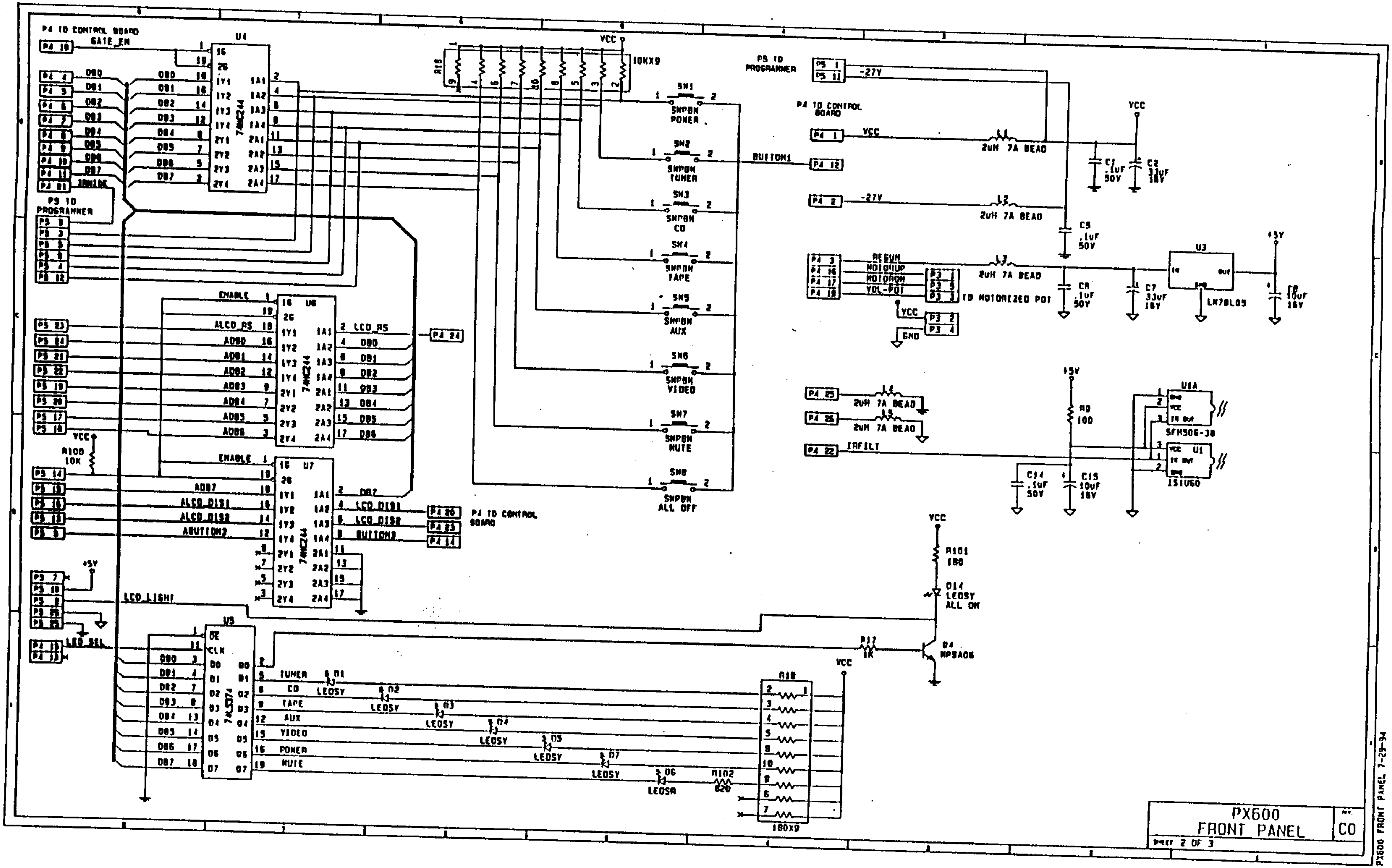


POT MOTOR

CO

SHEET 3 OF 3

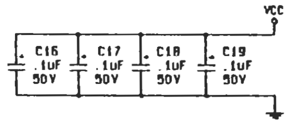
PX800 FRONT PANEL 7-23-94


P4 TO CONTROL BOARD
GATE_EN
U4
74HC244
P5 TO PROGRAMMER
U6
74HC244
U7
74HC244
U5
74LS374
ENABLE
LCD_RS
LCD_LIGHT
LED_SEL
ALCD_RS
ALCD_DIS1
ALCD_DIS2
ABUTTON2
LCD_DIS1
LCD_DIS2
BUTTON2
BUTTON1
R100
10K
R18
10KX9
VCC
+5V
SW1
SWPBN
POWER
SW2
TUNER
SW3
CD
SW4
TAPE
SW5
AUX
SW6
VIDEO
SW7
MUTE
SW8
ALL OFF
-27V
L1
2uH 7A BEAD
L2
L3
L4
L5
C1
.1uF
50V
C2
33uF
16V
C5
C6
C7
C8
10uF
16V
U3
LM78L05
REGUN
MOTORUP
MOTORDN
VOL-POT
TO MOTORIZED POT
GND
U1A
SFH506-38
U1
IS1U60
IRFILT
R9
100
C14
C15
R101
180
D14
LEDSY
ALL ON
R17
1K
Q4
MPSA06
LEDSY
LEDSR
R102
820
R19
180X9
PX600
FRONT PANEL
SHEET 2 OF 3
CO
PX600 FRONT PANEL 7-29-94

REVISIONS			
REV	DESCRIPTION OF CHANGE OR PREVIOUS STATE	DRAWN	DATE
A0	FIRST PROTOTYPE	LAW	5/8/93
B0	SECOND PROTOTYPE	LAW	3-2-94

IC CHART				
TYPE	VOLTAGE/PIN NO.		REFERENCE DESIGNATOR CHART	BYPASS CAP
	VCC	GND		
74HC244	20	10	U4, U6, U7	C16, C17, C19
74LS374	20	10	U5	C18

LAST USED
C19
D7
L5
P5
Q4
R19
SW8
U7



NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/4W,5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.

RELEASED FOR MANUFACTURE

BY [signature] 7/29/94

SIGNATURE		DATE
DRAWN	WILLE	12/27/93
DRFTG CHK		
DESIGN CHK		

PX600FPB.SCH

AUDIOACCESS

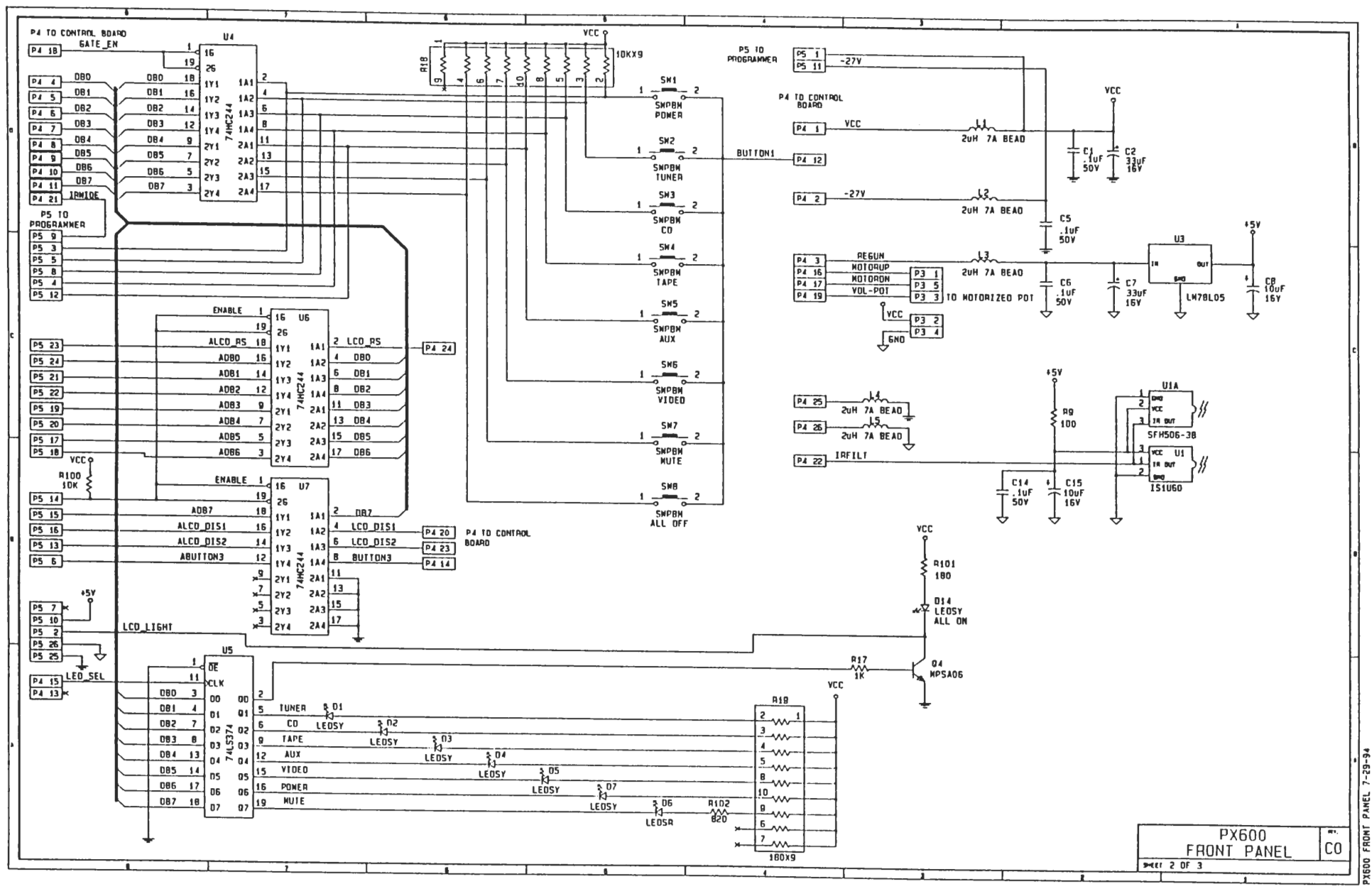
PX600 FRONT PANEL

DWG. NO.

REV. C0

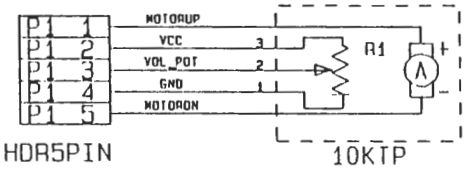
SHEET 1 OF 3

PX600 FRONT PANEL 7-29-94



PX600 FRONT PANEL	REV. C0
SHEET 2 OF 3	

PX600 FRONT PANEL 7-29-94



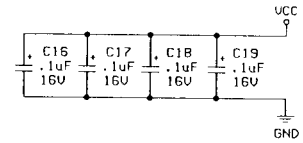
POT MOTOR

CO

SHEET 3 OF 3

IC CHART				
TYPE	VOLTAGE/PIN NO.		REFERENCE DESIGNATOR CHART	BYPASS CAP
	VCC	GND		
74HC244	20	10	U4, U6, U7	C16, C17, C19
74LS374	20	10	U5	C18
IS1U60		2	U1	

LAST USED
C15
D7
L5
P5
Q4
R19
SW8
U7



NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/4W,5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.

RELEASED FOR MANUFACTURE
BY 2/3/97

	SIGNATURE	DATE
DRAWN	MILLE	12/27/93
DRAFTG CHK		
DESIGN CHK		

PX600FP.SCH

AUDIOACCESS
26046 EDEN LANDING ROAD
HAYWARD, CA. 94545

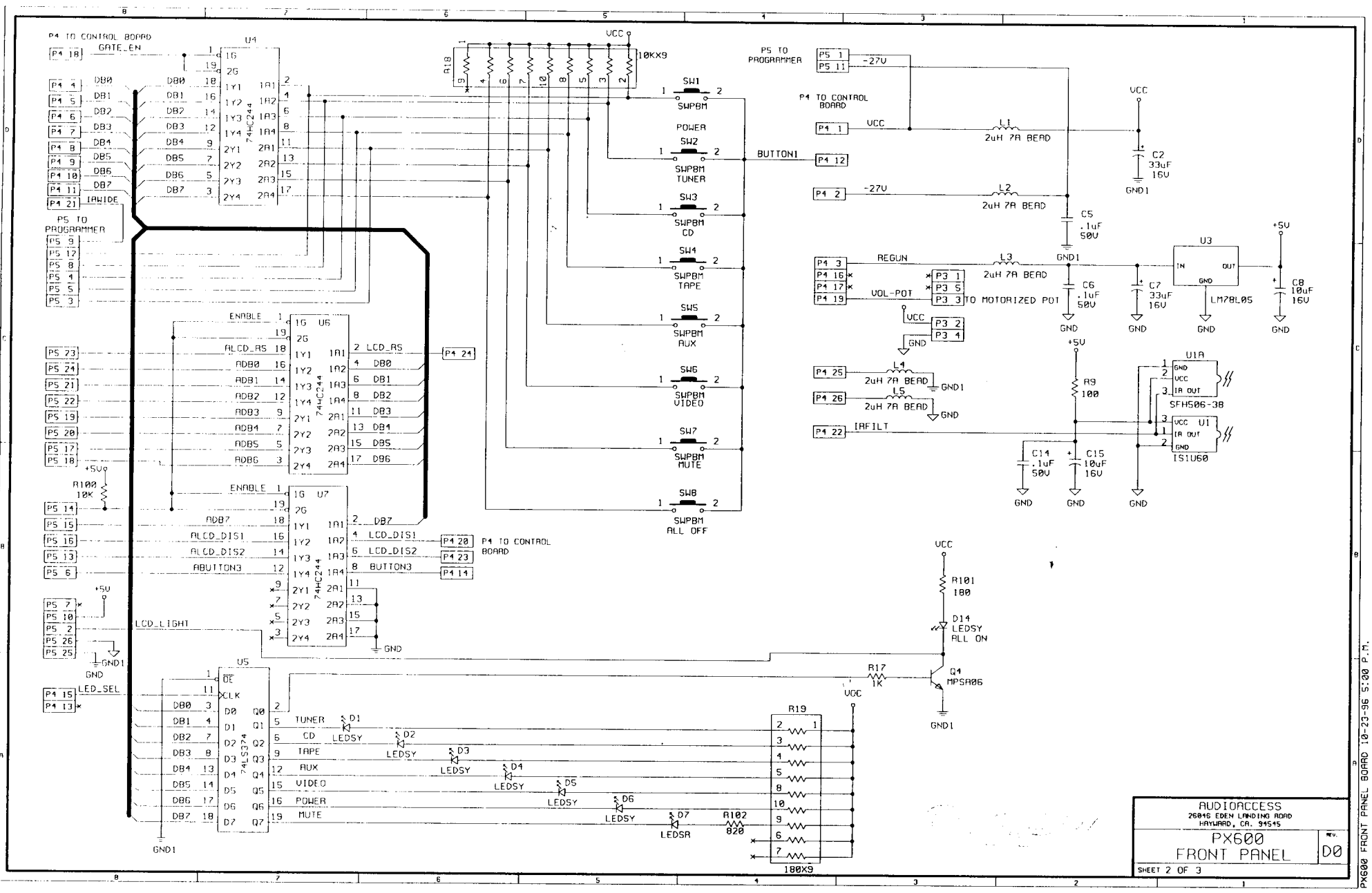
PX600
FRONT PANEL

DWG. NO.

REV. D0

SHEET 1 OF 3

PX600 FRONT PANEL BOARD 10-23-96 5:00 P.M.



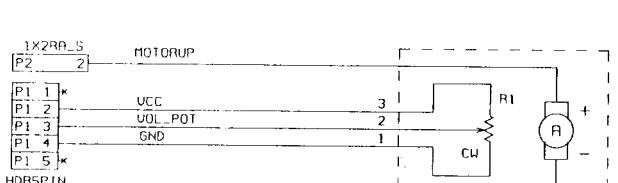
AUDIOACCESS
26045 EDEN LANDING ROAD
HAYWARD, CA. 94545

PX600
FRONT PANEL

REV. D0

SHEET 2 OF 3

PX600 FRONT PANEL BOARD 10-23-96 5:00 P.M.



COPY

AUDIOACCESS
2604G EDEN LANDING ROAD
HAYWARD, CA. 94545

PX600
POT MOTOR

REV. D0

SHEET 3 OF 3

PX600 FRONT PANEL BOARD 10-23-96 5:00 P.M.

PX-600

PROGRAMMER

REV B0

Audioaccess Parts List
PX600 Programmer Rev C0
926-0599-000-C0
Revised 8/23/94

ITEM	AA Part #	Qty	Reference Designator	Description	Gallien Part #
1	640-5000-033	2	C9, C12	3.3 uF, 25V, Al. Electro., Axial	038-2335-0
2	640-4900-103	1	C10	0.01 uF, 25V, Ceramic, Axial	030-1103-0
3	640-4900-102	1	C11	0.001 uF, 50V, Ceramic, Axial	030-2102-0
4	640-6000-100	2	C13, C18	10 uF, 16V, Al. Electro., Axial	038-0106-0
5	640-7000-001	3	C16, C17, C20	0.1 uF, 50V, Ceramic, Axial	030-2104-0
6	620-0526-000	1	D8	LTR526AB, Photodiode	025-0000-0
7	621-2008-000	1	D9	LED, Red, T1	025-0022-0
8	620-2599-000	1	D11	1N759A, 12V Zener, 400 mW	020-0120-0
9	620-2914-000	3	D12, D13, D18	1N4148, Diode	020-0000-0
10	667-2000-016	1	J1	Header, 6 X .1, Male	
11	667-2075-021	1	P2	Connector, 20 Pin, SIP, Female	093-0099-0
12	667-2001-026	1	P3	Header, 2 X 13 X .1, Male, RA	093-0005-0
13	624-0056-000	2	Q1, Q2	MPSA56, PNP, T0-92	010-1013-0
14	624-0006-000	1	Q3	MPSA06, NPN, T0-92	010-0012-0
15	650-2350-010	5	R1, R2, R3, R10, R12	1k Ω, 1/4 W, 5%, CF	051-1002-0
16	650-2350-470	1	R4	47k Ω, 1/4 W, 5%, CF	051-4703-0
17	650-2350-100	3	R5, R7, R11	10k Ω, 1/4 W, 5%, CF	051-1003-0
18	650-2349-010	1	R6	10 Ω, 1/4 W, 5%, CF	051-0101-0
19	650-2350-020	1	R8	2k Ω, 1/4 W, 5%, CF	051-2002-0
20	650-2350-022	1	R13	2.2k Ω, 1/4 W, 5%, CF	051-2202-0
21	660-1000-100	1	R14	10K Ω Trim Pot	070-0521-0
22	650-2351-100	1	R15	100k Ω, 1/4 W, 5%, CF	051-1004-0
23	650-2349-039	1	R16	3.9 Ω, 1/4 W, 5%, CF	051-0390-0
24	659-0015-000	1	RT1	Thermistor	022-0081-0
25	740-2000-600	5	SW12, SW13, SW14, SW15, SW16	E-Switch 320 E1-1 Black	
26	605-3373-000	1	U2	MC3373P	002-3373-0
27	750-2700-000-C	1	PCB	PX600 Programmer PCB Rev C	

Notes: For J1, the length of the pin past the body of the header should be at least 0.295".

Do not install a part at J1A.. J1A holes to be free of solder.

D8 should be mounted at a right angle to the PCB with the flat side up. The flat side should be 0.500" off the surface of the PCB.

D9 should be mounted flush to the PCB.

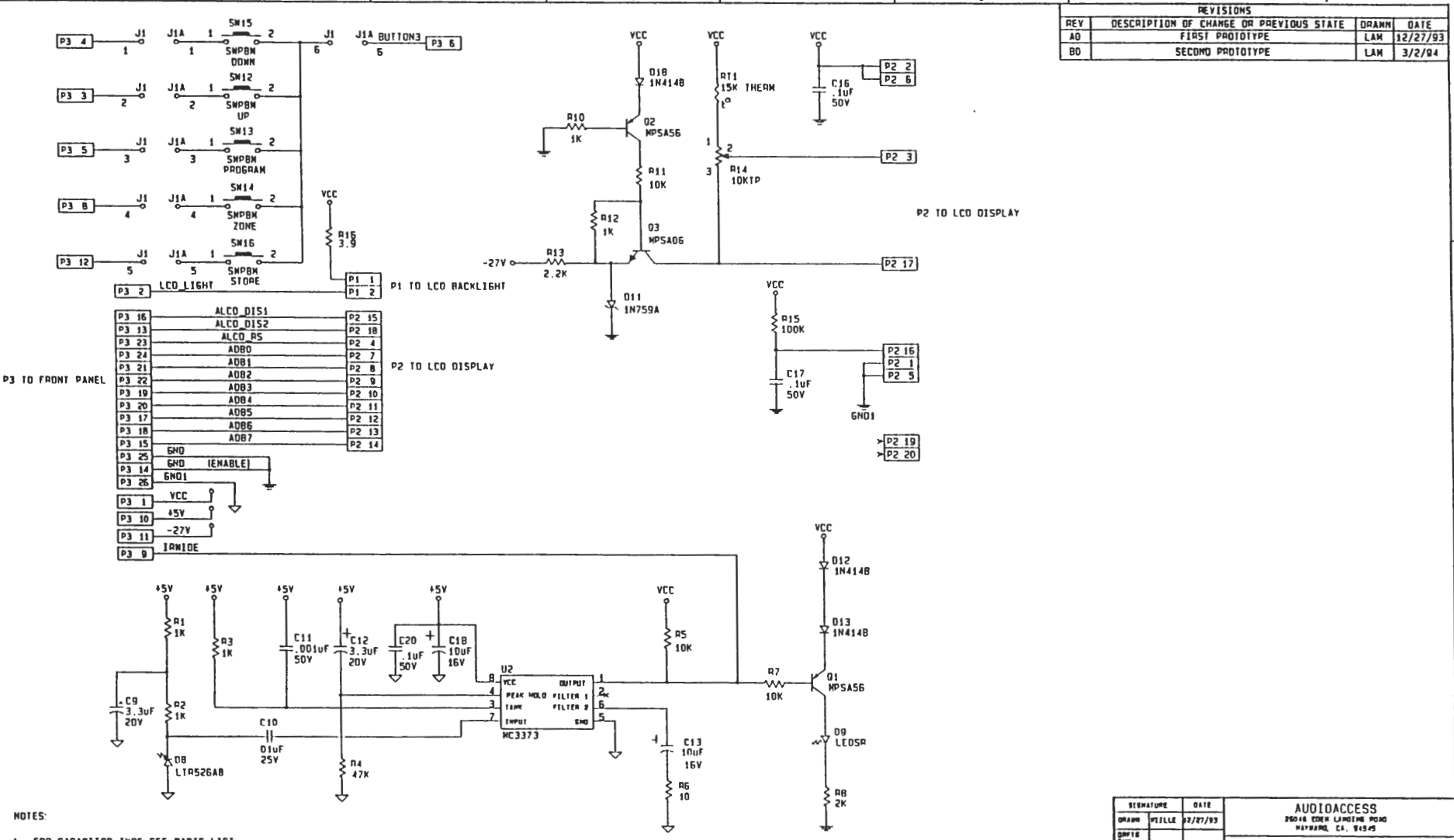
Q2 and Q3 must be mounted at right angles to the PCB with their flat sides flush with the PCB.

The sections of the PCB should not be broken apart.

The overall height of the trimpot above the PCB should not exceed 0.150".

Audioaccess Bill of Materials
PX600 Programmer Rev 00
Revised 07/01/94

Level	Part Number	Rev	Qty	Description	
0	PX600 Prog	00	1	PX600 Programmer	
1	920-0599-000	00	1	Assembly, Final, PX600 Prgrmmr	Assembled and Tested
2	715-2600-000	C	1	Case, PX600 Programmer	
2	810-1100-000	B	1	Overlay, PX600 Programmer	
2	925-0599-000	C0	1	Assembly, Board, AT, PX600 Prgrmr	
3	927-0599-001	00	1	Assembly, Board, LCD	
4	622-1000-010		1	LCD Display, Densitron 64X120	LMH4328BG64G128DNY
4	667-2075-020		1	Conn. 20 PIN MALE HDR SNGL ROW	
3	926-0599-000	C0	1	Assembly, Board, TK, PX600 Prgrmr	
3	770-1000-200		2	Spacer, NYLON, .187" #4	
3	730-2320-000		2	Screw, #4X3/8" BLK, SHEET METAL	
3	770-1000-250		4	Spacer, NYLON, #4X1/4"	Keystone Cat # 876
3	730-2117-002		4	Screw, 4-40X1/2"PH, BLK SELF TP	
2	730-2200-000		2	Screw, 4-40 x 3/4", Flat SKTCP BLK	Master Fasteners 440X0750FSCSA
2	770-1200-000		2	Spacer, NYLON, 4-40X5/16", HEX	Microplastics 14HTSP022
2	736-2117-000		2	Nut, KEP 4-40 X 1/4"	
1	705-1000-800		1	RIB ASS'Y, 26 Pin, F-F, 48"	
1	801-0599-000		1	Shielding Bag, 6X10, Recloseable	
1	715-2600-001		1	Case, Carrying, PX600 Prgmr	
1	810-1100-001	A	1	Label, PX600 Prgmr Carry Case	
1	715-2600-005	00	1	Foam, PX600 Prgmr Carry Case	
1	820-0599-000	00	1	Instruction Sheet, PX600 Prgrmr	
1	800-4000-000	00	1	Warranty Card	



REVISIONS			
REV	DESCRIPTION OF CHANGE OR PREVIOUS STATE	DRAWN	DATE
A0	FIRST PROTOTYPE	LAM	12/27/93
B0	SECOND PROTOTYPE	LAM	3/2/94

NOTES:

1. FOR CAPACITOR TYPE SEE PARTS LIST.
2. ALL RESISTORS ARE 1/4W, 5% CARBON FILM, UNLESS OTHERWISE SPECIFIED.

SIGNATURE		DATE
DRAWN	WILLE	12/27/93
CHK		
CHK		

PX600HR.SCH

AUDIOACCESS
26046 EDEN LANDING ROAD
HAYWARD, CA. 94545

PX600 PROGRAMMER

DWG. NO. B0

SHEET 1 OF 1

PX600 PROGRAMMER 7-26-94

AUDIOACCESS

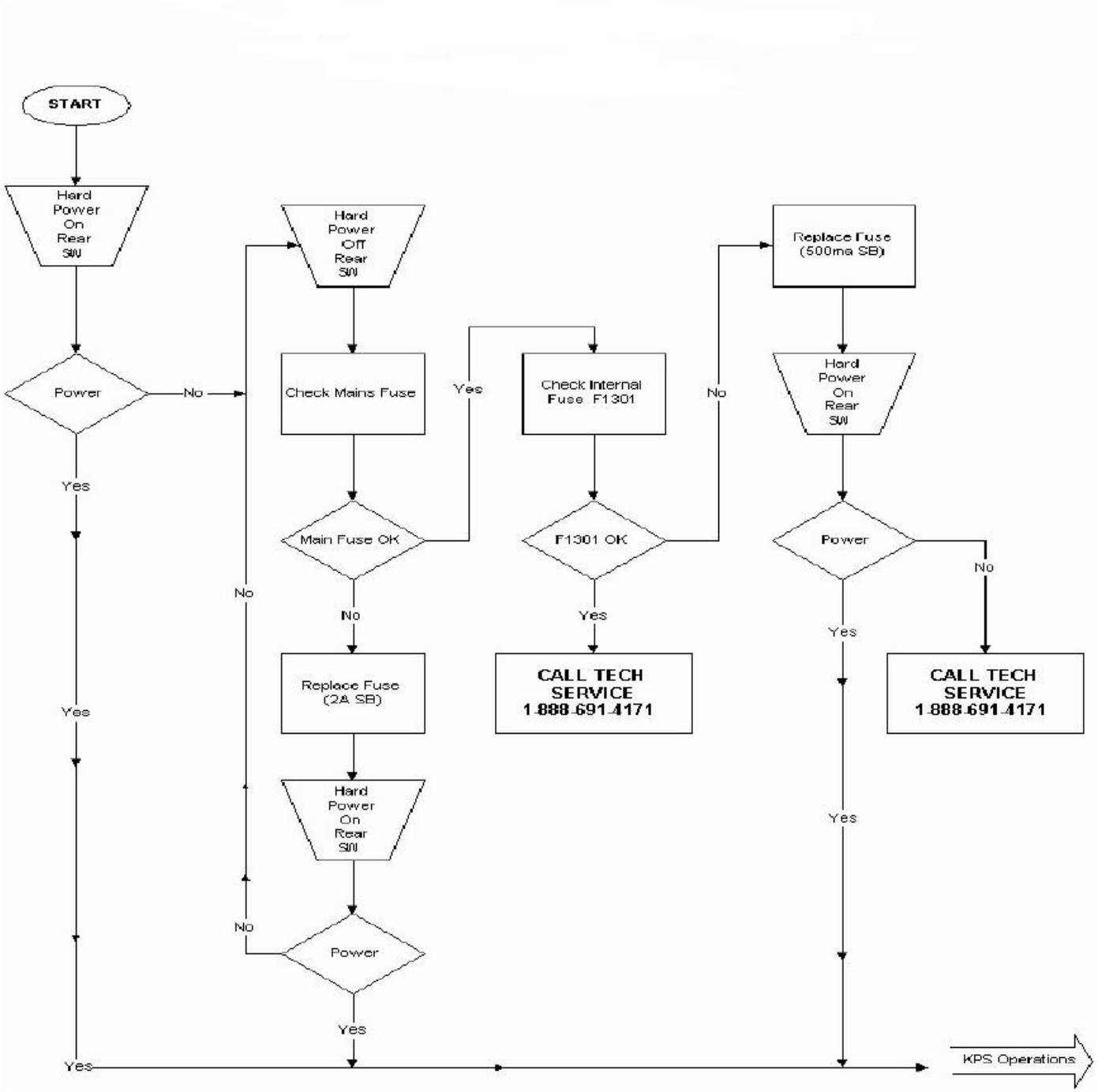
PX-600 Field Repair Guide

Version xxxx Rev Level xxx

MADRIGAL

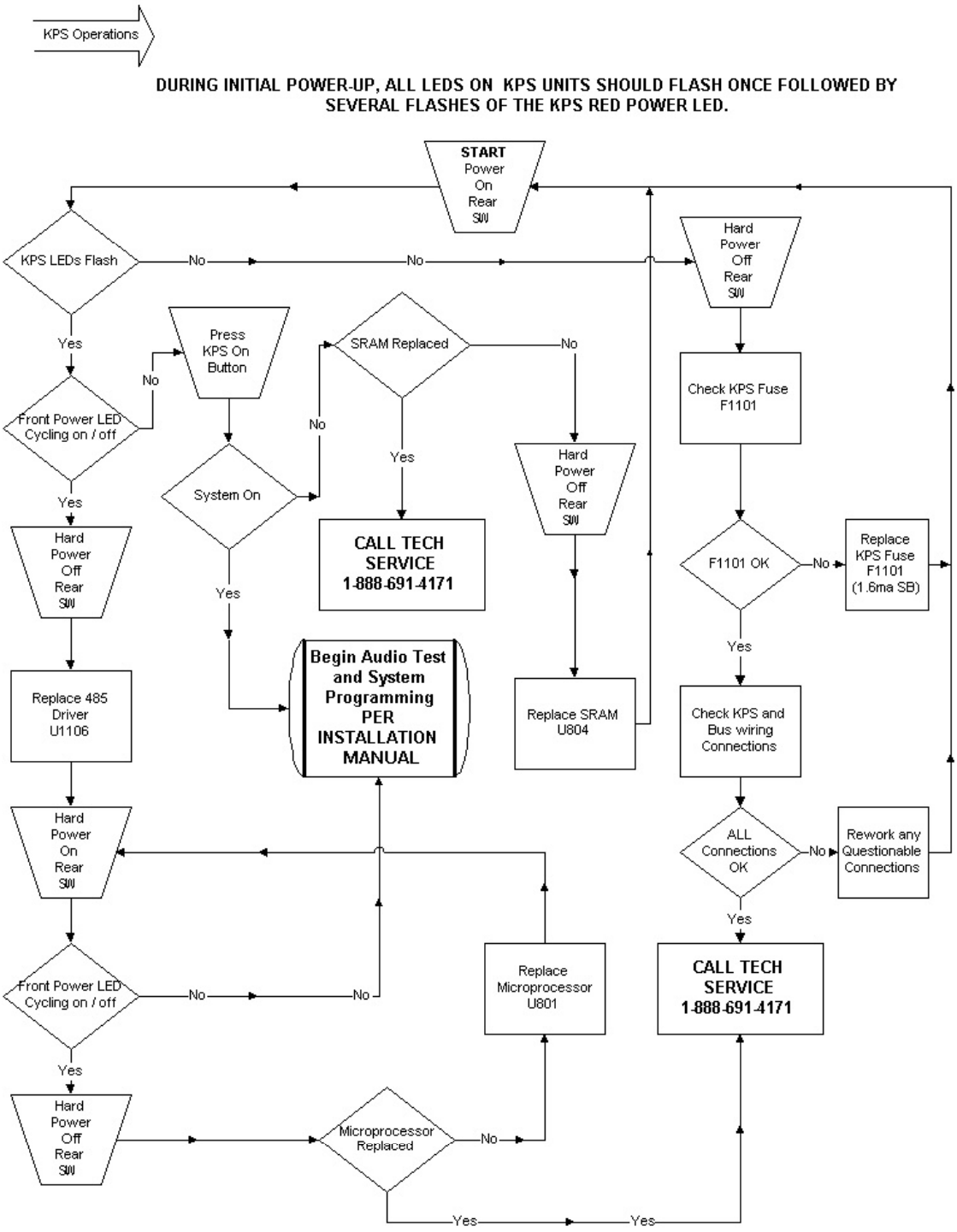
AUDIOACCESS

PX-600 FIELD REPAIR FLOW CHART
INITIAL SYSTEM POWER-UP

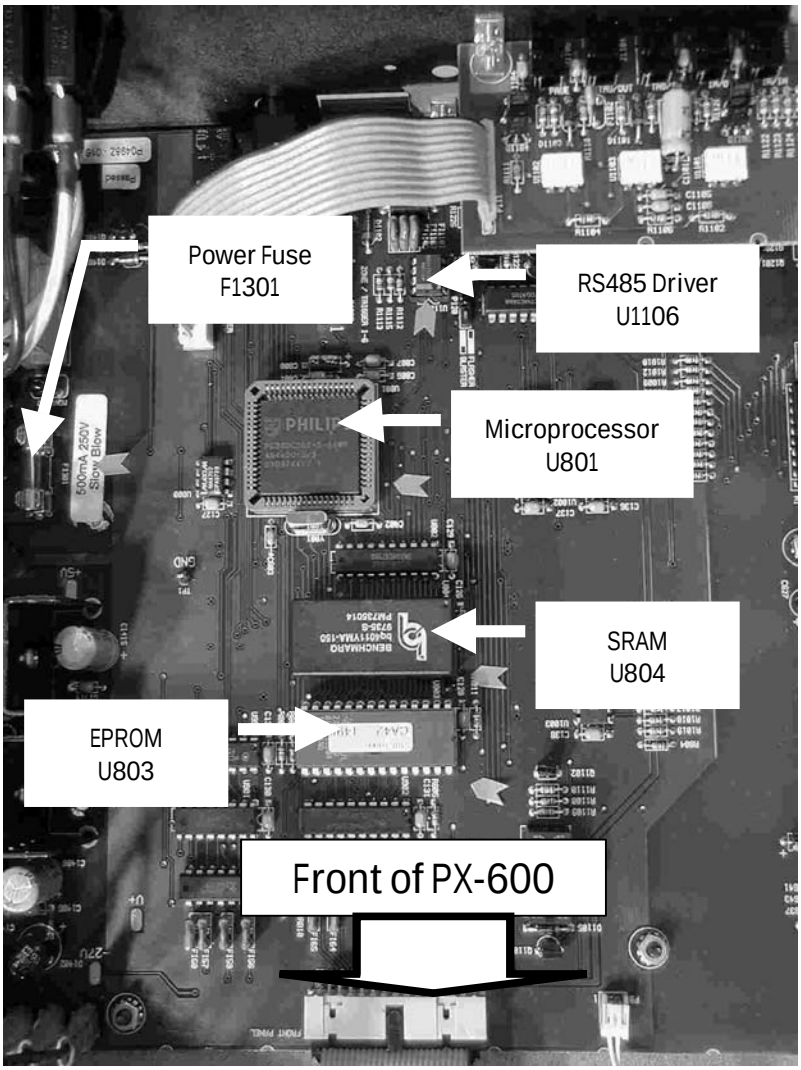


AUDIOACCESS

PX-600 FIELD REPAIR FLOW CHART
KPS BUS OPERATIONS



PX-600 REPAIR PARTS LOCATIONS



AUDIOACCESS

TECHNICAL SERVICES

Madrigal Audio Laboratories
P.O. Box 781
Middletown, CT 06457-0781
(860) 346-0896
FAX (860) 347-6251

PX-600FRK – PX-600 FIELD REPAIR KIT

SEPTEMBER 22, 1999

The Audioaccess Field Repair Kit has been developed for authorized Audioaccess installation companies to improve servicing time and overall customer satisfaction of PX-600 systems. Field repair eliminates system downtime and the cost of multiple trips to job sites to reinstall keypads and controllers. This kit contains socket parts and subassemblies to perform simple repairs to Audioaccess KPS keypads and PX-600 controllers. We recommend that dealers bring this kit on all Audioaccess installation and/or troubleshooting visits.

The following parts and quantities are included in each kit. Dealer costs are also included for reordering individual components:

DESCRIPTION	Part NO.	LOCATION	Qty	DLR EACH	DLR EXT
PX-600/KPS PARTS					
Ribbon Cable for Programmer	705-1000-800	PX-600 PROG	1	$10.50	$10.50
Fuse 2 Slo Blo	664-2101-200	MAINS FUSE	6	$0.93	$5.58
Fuse 1.5 5 X 20 mm	664-1001-500	KEYPAD (NEW)	6	$1.47	$8.82
Fuse 1.6 Slo Blo	380-00160-00	KEYPAD	6	$0.78	$4.68
Fuse 500ma Slo Blo	380-00050-00	F 1301 (INTERNAL)	6	$0.69	$4.14
LTC485 Bus Driver	605-0485-008	U 1106	12	$3.45	$41.40
Keypad Processor Board	450-9862-100	KPS	4	$38.82	$155.28
Volume Control ass'y	926-0600-002-00	FRONT PANEL	1	$60.50	$60.50
Microprocessor	606-8055-000	U 801	1	$26.82	$26.82
SRAM	606-1244-000	U 804	2	$31.95	$63.90
V2.04	610-1204-000	U 803	2	$20.00	$40.00
Total Cost if purchased separately.					**$426.62**
Total Kit Price	PX600FRK				**$245.00**

Please contact Audioaccess Technical Support at 888-691-4171 or 860-346-0896 from the job site when a specific Audioaccess system malfunction occurs. Audioaccess will assist the installer in system diagnostics and possible on-site repair. Below is a brief description of usage for some of the parts listed above.

1. **LTC 485 Bus Driver** – This eight-pin IC sends and receives communication data on the RS-485 keypad bus. This device is located in each KPS keypad, PX-600, PX-603, and MRX-NT. The RS-485 transceiver is socket mounted in KPS keypads manufactured after April 1, 1998 and in the PX-600 dating from 1995.
2. **SRAM** – This component provides the non-volatile memory in the PX-600. The SRAM "holds" all programmed settings in a system. This is the second part to suspect after replacement of the LTC 485 driver for any functional or source control related failure.
3. **EPROM** – This is the operating software for the PX-600. Version 2.04 is the current software version.
4. **Microprocessor** – The main "brain" of the system. This part may need replacement if RS-485, EPROM and SRAM replacements result in continued system control errors.
5. **Keypad Processor Board** – A failed keypad may require the replacement of the entire keypad processor board. Replacement of this board will result in the successful repair of 99% of remaining keypad related problems. *Note* - KPS keypads mis-installed or damaged by EMI (Electro-Magnetic Interference) are not covered under the Audioaccess warranty.
6. **Volume Control Assembly** – This volume control pot on the PX-600 and MRX controls the volume of Zone 6 in these systems. A broken volume assembly will cause the system to "lock up" when zone 6 is "turned on" inhibiting volume and source control in an entire system.

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AUDIOACCESS

PX 600 ALL IR Output / MRX Blaster IR Output

DECEMBER 8, 1999 (ORIGINALLY TECHNICAL MEMO 9711)

OVERVIEW

The "**All**" and "**Blaster**" IR Output ports the on the PX-600 and MRX-NT may be used as an alternative or in conjunction with the individual source IR control ports (ie: CD Tape AUX and Video) to control source components in an Audioaccess system. As suggested by its name, these "all" output ports route all of the IR codes that are learned by the PX 600 and MRX-NT. The dedicated IR outputs route only IR for a specific source. Output voltages may be adjusted on both the PX-600 and MRX-NT for blaster or emitter settings. The following are some suggestions of how these "ALL" outputs are used.

CONFIGURATION OF THE ALL IR OUTPUT

PX-600 - The All Output is factory configured for standard low power emitters but can be changed to drive a blaster style emitter. To make this change, remove the top cover, and move the header jumper located on the main board at P120, one position back towards the rear panel. The two positions are labeled Blaster and Emitter.

MRX-NT - The ALL output of the MRX-NT is factory set for using high power blaster emitters. Functionally, the IR output is identical to that of the PX-600. To modify this to a standard low power emitter port you must modify the emitter being used. Using the positive supply wire, place a one 1K Ohm 1/4w 5% resistor in series with the LED. This will cause a voltage drop across the resistor and will avoid damaging the emitter's LED.

USING THE ALL IR OUTPUT

Application 1 – If using source components from a single manufacturer that contain control in/out ports, you may use only the "ALL" out (emitter setting) and daisy chain the control signal to each of the source components. This method eliminates the emitters on the front panel of the source gear and is easy to install. The source gear must be opto-isolated. Opto-isolation indicates that the source component internally strips the IR carrier from the control signal. If this is not the case, you may use the Xantech 794 and 797 series of interface modules for direct connection between the PX-600 IR out and the source component's control inputs. Using the "ALL" output is not desirable if you wish to control two identical source components that use the same IR codes. In this case it is better to use the dedicated IR ports that allow for independent control of identical sources.

Application 2 - Four additional source control functions are located in the video programming and may be accessed using the Audioaccess RT-A remote. These extra control functions may be used by any source component if you use the "ALL" control port to expand functionality of a given source. For example, in for a high capacity CD changer, you may use the macro functions located in the HIGH CAPACITY CD Programming, **and also** add extra transport functions located in the "Video" programming under Channel UP, Channel DN, Fast Forward, and Rewind. Instead of connecting an IR emitter from the CD output, connect it to the "ALL" Output port. These extra functions will then be available to the CD changer only when using the Audioaccess RT-A remote. Only one source may use these additional functions.

Application 3 – The Zone 6 Macro incorporates a 10 step Video Enter Macro, 10 step Video Exit Macro, and Volume Up and Down commands for controlling an external AV processor or receiver. The "All" or "Blaster" output must be used to route the IR commands to the theater components. In some cases it may be necessary to include a secondary IR repeater system connecting block which allows for multiple output connections to the various components that need to receive IR control data. Alternatively, a Blaster style emitter may be used to "spray" the room with the appropriate commands when this setting is selected.

Note – For any questions concerning the use of the "ALL" IR output, please contact our Technical Support Department at 888-691-4171.

Madrigal Audio
Laboratories, Inc.

We define products for your
ears, eyes, and mind.

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TECH Bulletin

AUDIOACCESS PX-600 LEARNING PARASOUND IR

OVERVIEW

The IR bursts on Parasound remotes are short quick bursts. If the button on the Parasound remote is held too long the px-600 programmer will lock up. To avoid this from happening the button on the remote must be pressed and released quickly and then the volume up button press to fill up the IR. space inside the PX-600.

LEARNING IR. CODES

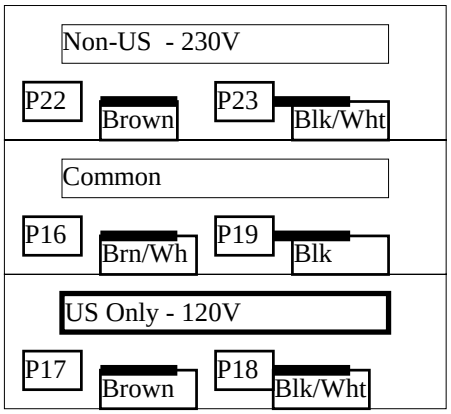
1. Hold the remote in front of the IR. window on the programmer.
2. Press and release the button for the command being learned.
3. Press the VOLUME UP button and hold until programmer says STORAGE SUCCESSFUL.

   NOTE : For the volume up or down commands this step should be skipped.
4. Repeat the previous steps until all buttons IR. commands are learned

Voltage Change for PX-600

Directions to change from 120VAC to 230VAC version. Locate the terminations for the power transformer to main PCB. Looking from the back of the unit they are directly above of the AC power connection and main switch. The Common must be connected always. The 2 transformer wires that are presently connected to US-Only (Brown = P17 & Black/White = P18)should be moved and re-connected to the NON-US terminal block (Brown = P22 & Black/White = P23) while maintaining the same color code for this connection as it was for the US-Only version. The main power fuse value must be halved for 230V.

Values as follows 120V= 2amp slo blo @ 250 volt.
230V= 1amp slo blo @ 250 volt



If you have any questions regarding this change, please call our Technical Support Department at (510) 293-0183

Audioaccess TECHNICAL MEMO by madrigal audio labs
2081 S. Main St, Middletown, CT 06457 Ph: 888-691-4171, 860-346-0896... Fx: 860-346-1540...

PX-600 EPROM CHANGE

CAUTION - ***Be sure to ground yourself before performing this procedure!! This is a static sensitive device***.

To change the EPROM in a PX-600 - Make sure to follow the ESD Warning on the page 1, provided. Take off the top cover and look for U803 on the main circuit board. With an IC puller or a small screwdriver, very carefully remove the old EPROM. Replace the new EPROM in the same location and make sure that notch in the IC is facing the same direction as the old one. You can also verify this by the drawing on the PCB. Replace the top cover with the same screws in the proper locations.

Hook up the programmer and power up the PX-600. Go into the TEST MENU and scroll to DATA RESET, then press ENTER. This will clear the memory of all IR codes and reset the controller to factory default settings. You are now ready to configure the system to your client's needs. After you finish programming, check each zone for proper operation. If there are any questions please contact the customer support department at one of the numbers above.

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TECHNICAL SERVICES
INFORMATION SHEET

AUDIOACCESS

PX-600 SRAM REPLACEMENT

DECEMBER 8, 1999

OVERVIEW

This procedure will guide you through the steps needed to replace the SRAM in the PX-600. Read the procedure carefully before beginning the SRAM replacement.

INSTALLING THE SRAM

WARNING:

Follow Anti-static Procedures!

A static-free workspace with conductive mat and wrist-strap or equivalent precautions must be used to protect static sensitive parts on the control board from damage. Before touching any of the boards inside the MRX, if you're not using the mat and wriststrap, discharge any static you may be carrying by touching something metal, preferably something that is grounded like the wallplate screw on a grounded electrical box. You should re-ground yourself often throughout the procedure and certainly whenever you are about to handle a board, or when you have walked away momentarily and come back.

What is Needed

- ❑ Philips Screwdriver

Procedure

1. Turn OFF the PX-600 main power on the rear panel and disconnect the AC cord.
2. Remove the top cover of the PX-600.
3. Carefully remove the IC at location U804.

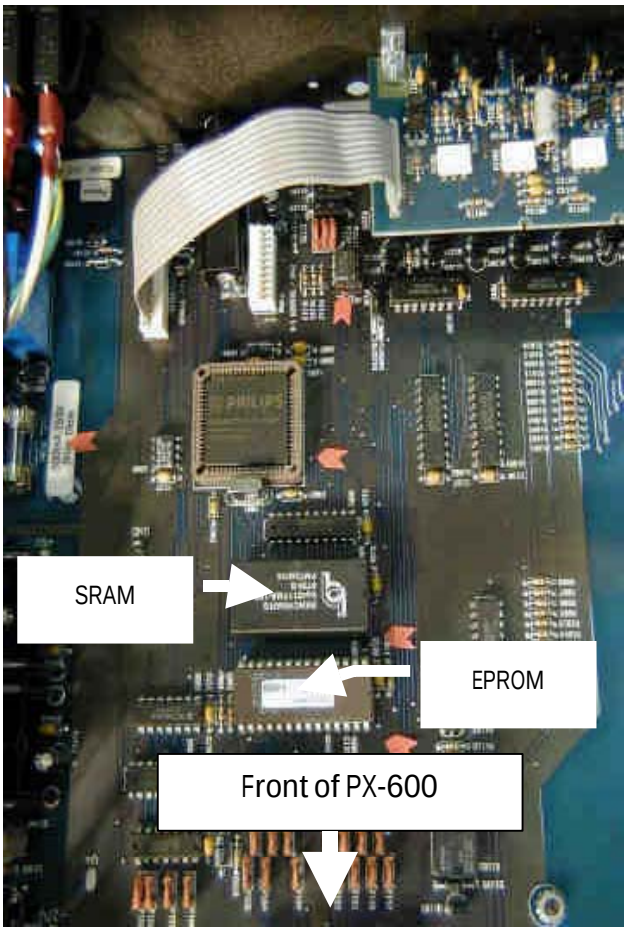
   This is next to the EPROM (Vx.xx). It can be found on the mid left side of the printed circuit board when looking downward from the front of the unit.

   Note that the correct SRAM should be Benchmarq BQ 4011. If a Benchmarq BQ 4010 is installed in this location, it should be replaced with the BQ 4011.
4. With the FRONT of the PX-600 towards you, Carefully place the new SRAM into the socket with the dimple on top of the IC in the upper right hand corner and give a slight push down to ensure the SRAM is properly seated in the socket.

   There is a dimple on the IC designating pin 1 as well as a notch designating the front end of the IC. The notch is also visible on the IC socket and on the PCB silk-screen. And give a slight push down to ensure the SRAM is properly seated in the socket.
5. Replace the top cover with the original screws.
6. Hook up the programmer and power up the PX-600 from the main power switch on the back panel.
7. Go to the main programming menu and choose TEST MENU, scroll to DATA RESET and press ENTER.
8. This will clear the memory of all IR codes and reset the controller to factory default settings.
9. You are now ready to configure the system to your client's needs. After you have finished programming, check each zone for correct operation. If you have questions please contact our Customer Support Department at the above numbers.

SRAM LOCATION

The SRAM can be found at location U304. Please see diagram below showing location on the PCB.



PX-600 COMPONENT LAYOUT

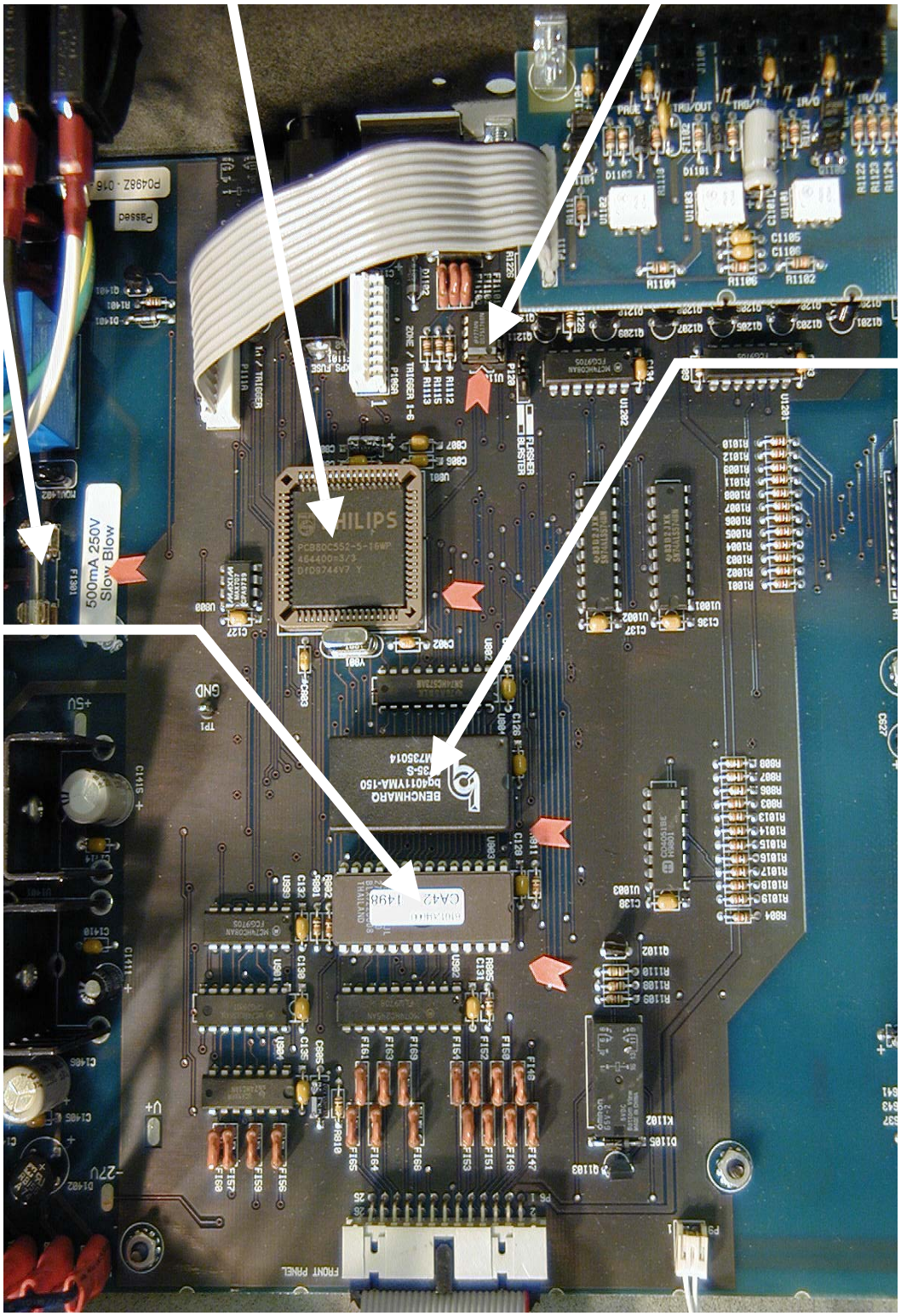
MICROPROCESSOR
U801

485 DRIVER
U1106

FUSE
F1301

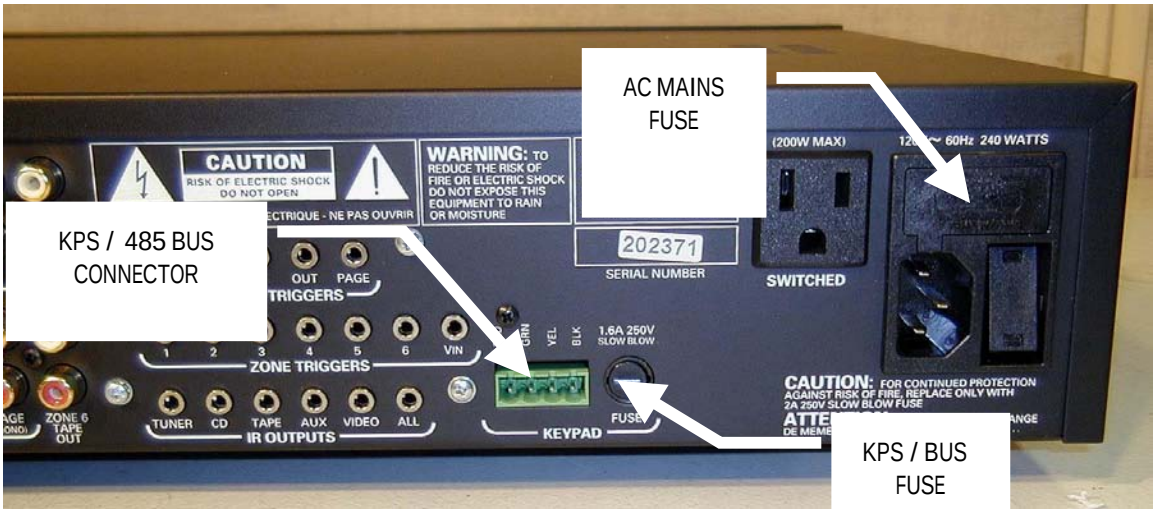
SRAM
U804

EPROM
U803



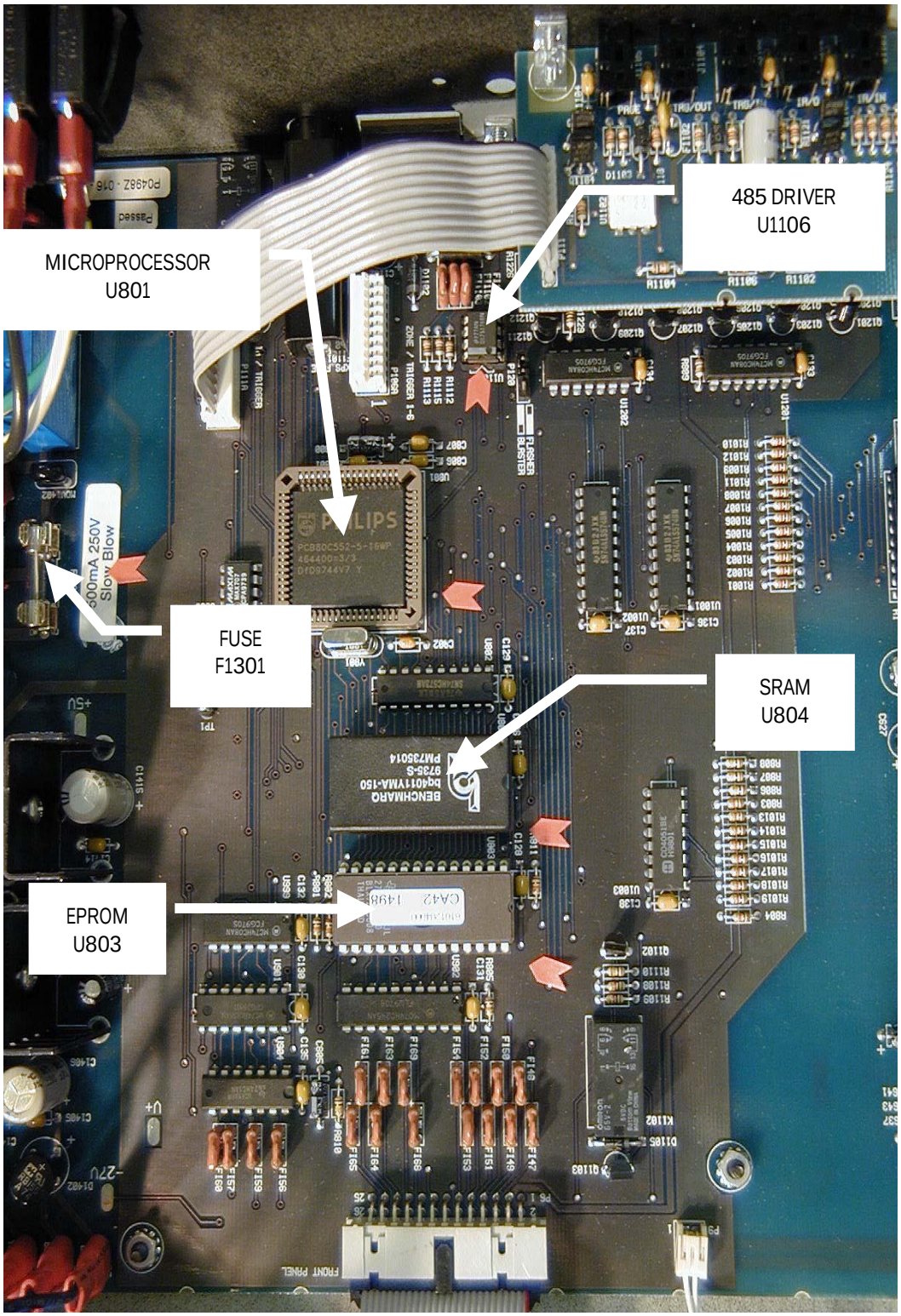
AUDIOACCESS

PX-600 FIELD REPAIR
REAR PANEL LAYOUT



AUDIOACCESS

PX-600 FIELD REPAIR
INTERNAL COMPONENT LAYOUT



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AUDIOACCESS

DSS PROGRAMMING

JULY 17, 1997

OVERVIEW

There are two possibilities for programming the DSS in a PX-600 system, using your choice of source inputs. Each method has its pros and cons, but one of them should work for your particular client's needs. Follow the examples below to program a DSS to suit the customers needs.

SAMPLE # 1: (SEE FIGURE 1, HIGH-CAPACITY CD OPTION)

Caution: using this method will take away the option of having a High-capacity CD player in the system with group control. Additionally, the response time between changing channels tends to run a little slower. The advantage to using this method is that you do not have to use any of the DSS program features, leaving them open for their intended use.

To start the programming

1) Go to LEARN IR.
2) Go to CD
3) Go to OTHER HIGH CAP (If the unit does have discrete IR power, you must first go to LOW CAP and enter a power command).
4) Follow the steps outlined below to program your presets (groups), up to six.
5) The STOP command is not used. Leave this address in memory empty.
6) At SKIP TRACK, enter the DSS code for "channel up".
7) Enter the number of presets (groups), up to 6. This sample is based on a total of 30 stations, with presets set at 5 station increments. The "delay" command is optional, as this will add a .7 second delay between commands if necessary to run the macro correctly. It depends on your particular unit. You may want to try it without the delay first. If there is more than one group, make sure GROUP 1 is the same as the "PLAY" macro .The first press and hold will go to GROUP 2.

Figure #1 HIGH CAP CD

SAMPLE PROGRAMMING TABLE FOR Sony DSS	
PX-600 DISPLAY	*DSS IR REMOTE BUTTON*
INPUT IR FOR PLAY STEP 1	5
INPUT IR FOR PLAY STEP 2	DELAY
INPUT IR FOR PLAY STEP 3	0
INPUT IR FOR PLAY STEP 4	DELAY
INPUT IR FOR PLAY STEP 5	0
INPUT IR FOR PLAY STEP 6	ENTER (OPTIONAL)
INPUT IR FOR STOP	NOT USED
INPUT IR FOR SKIP TRACK	CHANNEL UP
NUMBER OF GROUPS #	6
INPUT IR FOR GROUP 1 STEP 1	5 (FIRST DIGIT OF DESIRED STATION)
INPUT IR FOR GROUP 1 STEP 2	DELAY
INPUT IR FOR GROUP 1 STEP 3	0 (SECOND DIGIT OF DESIRED STATION)
INPUT IR FOR GROUP 1 STEP 4	DELAY
INPUT IR FOR GROUP 1 STEP 5	0 (THIRD DIGIT OF DESIRED STATION)
INPUT IR FOR GROUP 1 STEP 6	ENTER (OPTIONAL)
INPUT IR FOR GROUP 2 STEP 1	5 (FIRST DIGIT OF DESIRED STATION
INPUT IR FOR GROUP 2 STEP 2	DELAY
INPUT IR FOR GROUP 2 STEP 3	0 (SECOND DIGIT OF DESIRED STATION)
INPUT IR FOR GROUP 2 STEP 4	DELAY
INPUT IR FOR GROUP 2 STEP 5	5(THIRD DIGIT OF DESIRED STATION)
INPUT IR FOR GROUP 2 STEP 6	ENTER (OPTIONAL)

This process will continue until the programming is complete for the number of presets you have selected. Your client may want a specific station attached to press and hold function. All the stations are determined by your programming. After the last GROUP is entered, the programming display shows the source selection screen for LEARN IR. From there you may program IR commands for other sources or press STORE/ENTER twice to exit programming mode.

SAMPLE # 2: (SEE FIGURES 2A / 2B)

The second method uses the "Custom Guide" of the DSS to program desired stations, and the PX-600 to control it. However, you take away the "Custom Guide" from the client in the following manner.

A. The "channel up/down" buttons will only scan the stations contained in the "Custom Guide".

B. Your client will need to use the other "Guides" available to change channels on the DSS during regular DSS viewing. The advantage to this method is the ability to program as many stations as are available on the Custom Guide.

LOW CAP CD, AUX, TAPE, or VIDEO can be used on the PX-600 to control the DSS. We've included samples from TAPE or CD under AUX programming.. Again, a POWER command is necessary if the unit does have discrete IR power, if you wish to have the source turn on and off with the system.

Figure #2A (TAPE)

SAMPLE PROGRAMMING TABLE FOR Sony DSS	
PX-600 DISPLAY	***DSS IR REMOTE BUTTON***
NUMBER OF TAPES	1
INPUT IR FOR PLAY	CHANNEL UP /CUSTOM GUIDE
INPUT IR FOR STOP	NOT USED
INPUT IR FOR FORWARD PLAY	CHANNEL UP
INPUT IR FOR REVERSE PLAY	CHANNEL UP
TAPE !A	CHANNEL DOWN
TAPE 1B	NOT USED

Figure #2B (CD)

SAMPLE PROGRAMMING TABLE FOR Sony DSS	
PX-600 DISPLAY	***DSS IR REMOTE BUTTON***
NUMBER OF DISCS	1
INPUT IR FOR PLAY	CHANNEL UP/CUSTOM GUIDE
INPUT IR FOR STOP	NOT USED
INPUT IR FOR SKIP TRACK	CHANNEL UP
DISC 1A	CHANNEL DOWN
DISC 1B	NOT USED

TECH NOTES

IR PROGRAMMING

Ideal Programming Conditions
In order to minimize interference and maximize the reliability of source control, follow these guidelines during programming:

1. Eliminate direct or bright indirect sunlight near the PX-600 Programmer.
2. Turn off any halogen, fluorescent and neon lights in the area.
3. Position Programmer so that no lights, even incandescent lights, shine directly into the IR input window.
4. Hold the transmitter for the source equipment you are programming 2" to 6" from the PX-600 Programmer. Hold it level and squarely aligned with the red IR input window.
5. Except as directed elsewhere in these Tech Notes, when you enter a command into the PX-600 Programmer, press and hold the button on the IR remote until you see the words: "Storage Successful" on the LCD screen.

CD - Multiple Skip Track

You may encounter some CD players that skip more than one track when you issue the SKIP TRACK by pressing the CD button the second and subsequent times. These players probably utilize 32 bit IR codes. When learning these 32 bit codes, the PX-600 will take 2-3 seconds before indicating "Storage Successful", whereas 16 bit codes are stored almost immediately. When 32-bit codes are learned and played back, often the player sees two separate commands and thus skips more than one track.

To compensate for this and skip only one track, get into programming and proceed to the spot where you are to enter the SKIP TRACK command. Briefly tap SKIP TRACK on the CD's remote and immediately press and hold another button on the remote until the PX-600 indicates "Storage Successful" on the display. The PLAY button works well for this unless the player has a combination PLAY/PAUSE button. If this is the case, or if the player is affected in some other way when you press PLAY while it is already in PLAY, use a command from a remote that has nothing to do with the audio system to complete the storage of that IR address. The point is to fill the space allotted for the command without duplicating the SKIP TRACK command.

System Learning Remotes

These remotes are designed to control the functions of a stack of same-brand equipment, as well as learn the IR commands of other equipment. Often the PLAY buttons on these remotes send two IR commands: one to the receiver to select the input, and one to the player (CD, Tape, etc.) to start it playing. When using this type of remote to program IR commands into the PX-600, the PLAY command often gets cut off and is not stored properly. When this happens it will appear that the PX-600 cannot control the source equipment. For this reason, it is best to use the transmitter for the player itself whenever possible.

However, sometimes the individual player's remote is not available or doesn't exist. To program the PLAY command or any other command using a System Remote, follow this procedure:

1. Place the remote in the proper location for programming.
2. Place your hand between the remote and the PX-600 Programmer.
3. Press PLAY - your hand will block the first command (SOURCE SELECTION).
4. Move your hand in time to record the second command (PLAY). This may take only a fraction of a second.

It may take a little practice to get the timing right, but it works and it may get you out of a jam.

IR Programming tips for Tape Players

There are different formats for the control of tape players, and clients have differing needs or expectations of how a player should respond from a keypad or remote. With this in mind, we have outlined the programming protocol for the TAPE input along with some suggested ways of using it.

During IR programming for TAPE, enter the number of tapes the player has and the commands for: PLAY, STOP, REVERSE PLAY and FORWARD PLAY, then TAPE 1A/1B, TAPE 2A/2B, etc. The PX-600 issues PLAY the first time TAPE is selected in a zone, unless it was already selected in another zone. STOP is issued shortly after the first zone is turned on in the system, after the last zone is turned off and whenever the user switches out of TAPE, unless another zone has TAPE selected.

The REVERSE PLAY and FORWARD PLAY commands toggle back and forth each time you press TAPE after the first time. Normally these provide a CHANGE DIRECTION function on players that have two PLAY buttons.

TAPE 1A/1B, 2A/2B, etc. are two-step commands issued when you press and hold the TAPE button. The intended use of the two steps is to accommodate multi-tape changers that require a tape select command followed by the tape number or the tape number followed by PLAY. Most players change tapes by pressing the tape number only, in which case enter the tape number in the “A” step and skip the “B” step.
If you have a tape player with one PLAY button and a DIRECTION button:

1. Enter DIRECTION for both the REVERSE PLAY and FORWARD PLAY commands so that you get the DIRECTION function each time you press TAPE after the first time. Using this option, you could tell the PX-600 you have 2 tapes and enter FF into TAPE 1A, press STORE to skip TAPE 1B, then enter PLAY into TAPE 2A and press STORE to skip TAPE 2B. You'll now be able to toggle between FF and PLAY on the press-and-hold function.
2. Enter FF into REVERSE PLAY and PLAY into FORWARD PLAY, then enter DIRECTION in TAPE 1A. This toggles between FF and PLAY to find a particular part of a tape. When you press and hold TAPE, you change the direction of play. Another twist to this is to tell the PX-600 that the player has 2 tapes as in Option 1, and enter REW and PLAY in TAPE 1A and TAPE 2A. Then you toggle between FF and PLAY by momentarily pressing TAPE and toggle between REW and PLAY using the TAPE press-and-hold function.

Sources with IR input on back panel

Many sources, particularly tape decks and tuners, have no IR input to the front panel. These products are designed for use with receivers and a "system" remote. Some tape players and other source components have opto-isolated IR inputs as with Harman Kardon equipment. With these components, plug the emitter outputs of the PX-600 directly into the IR inputs on the back panels using mono mini plug to mini plug cables.

When the IR inputs are not opto-isolated, route the IR through a CD player in the system that is the same brand and series, and connect the CD player via the IR port to the back of the tape deck. Use the ALL OUTPUT in this case. If this is not an option consider using a Xantec 794/797 connecting block and route the IR signal through this device which provides opto-isolation for the source component.

Using a CD Player on the Tape input
The programming is the same for PLAY, STOP and SKIP DISC (SKIP TAPE). However, enter SKIP TRACK for both REVERSE PLAY and FORWARD PLAY. Then each time you press TAPE on the transmitter, keypad or front panel, you will get SKIP TRACK on the CD Player.

Laser Video Disc Players as main CD Players

Many current LD players play regular CDs as well as laserdiscs. One may be tempted to use these players as both the CD and VIDEO source. We recommend a separate, dedicated CD player on the CD input. However, if you must use the LD/CD arrangement, please consider the following:

Split the audio output into both the CD input and the VIDEO input of the PX-600. If you're using some other means of video switching, connect one of the splits into that device and then into the PX-600. In this way the audio will track with the labeling on the keypad.

LD players often have PLAY/PAUSE buttons which means you will undoubtedly get PAUSE at some point when you really want PLAY.

LD players often have STOP and EJECT on the same button, so it is likely that the drawer will open when you don't want it to. You may opt to eliminate the STOP command altogether.

If you plug the LD player into the PX-600 for AC power, it may power up into a "standby" mode. Before it accepts any other commands, the player needs the IR POWER command. Use the POWER command from either the CD or the VIDEO input - not both. You can get around this on some players by setting the timer to the "on" position if it has this feature (this solution *may* work for *any* equipment with stand-by power).

Sharing Sources with Other Systems

Some pre-amps, receivers and A/V surround receivers short their audio inputs together when they are turned off. This will show up in the PX-600 as cross talk between CD, TAPE, AUX and VIDEO if the PX-600 is on and the other system is off. This cross talk or bleed from one source to another is often accompanied by low frequency distortion. One solution is a line level switch made by Sonance, Model AL-1S, which has A/B switching between multiple sources and provides the necessary isolation. It requires a 12VDC power supply, also available from Sonance, and is reported to work perfectly in this situation. The only other way to deal with it is to build a relay circuit that isolates the preamp or receiver from the source equipment when it is off.

AUDIOACCESS

TECHNICAL SERVICES

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PX-600FRK – PX-600 FIELD REPAIR KIT

SEPTEMBER 22, 1999

The Audioaccess Field Repair Kit has been developed for authorized Audioaccess installation companies to improve servicing time and overall customer satisfaction of PX-600 systems. Field repair eliminates system downtime and the cost of multiple trips to job sites to reinstall keypads and controllers. This kit contains socket parts and subassemblies to perform simple repairs to Audioaccess KPS keypads and PX-600 controllers. We recommend that dealers bring this kit on all Audioaccess installation and/or troubleshooting visits.

The following parts and quantities are included in each kit. Dealer costs are also included for reordering individual components:

DESCRIPTION	Part NO.	LOCATION	Qty	DLR EACH	DLR EXT
PX-600/KPS PARTS					
Ribbon Cable for Programmer	705-1000-800	PX-600 PROG	1	$10.50	$10.50
Fuse 2 Slo Blo	664-2101-200	MAINS FUSE	6	$0.93	$5.58
Fuse 1.5 5 X 20 mm	664-1001-500	KEYPAD (NEW)	6	$1.47	$8.82
Fuse 1.6 Slo Blo	380-00160-00	KEYPAD	6	$0.78	$4.68
Fuse 500ma Slo Blo	380-00050-00	F 1301 (INTERNAL)	6	$0.69	$4.14
LTC485 Bus Driver	605-0485-008	U 1106	12	$3.45	$41.40
Keypad Processor Board	450-9862-100	KPS	4	$38.82	$155.28
Volume Control ass'y	926-0600-002-00	FRONT PANEL	1	$60.50	$60.50
Microprocessor	606-8055-000	U 801	1	$26.82	$26.82
SRAM	606-1244-000	U 804	2	$31.95	$63.90
V2.04	610-1204-000	U 803	2	$20.00	$40.00
Total Cost if purchased separately.					**$426.62**
Total Kit Price	PX600FRK				**$245.00**

Please contact Audioaccess Technical Support at 888-691-4171 or 860-346-0896 from the job site when a specific Audioaccess system malfunction occurs. Audioaccess will assist the installer in system diagnostics and possible on-site repair. Below is a brief description of usage for some of the parts listed above.

1. **LTC 485 Bus Driver** – This eight-pin IC sends and receives communication data on the RS-485 keypad bus. This device is located in each KPS keypad, PX-600, PX-603, and MRX-NT. The RS-485 transceiver is socket mounted in KPS keypads manufactured after April 1, 1998 and in the PX-600 dating from 1995.
2. **SRAM** – This component provides the non-volatile memory in the PX-600. The SRAM "holds" all programmed settings in a system. This is the second part to suspect after replacement of the LTC 485 driver for any functional or source control related failure.
3. **EPROM** – This is the operating software for the PX-600. Version 2.04 is the current software version.
4. **Microprocessor** – The main "brain" of the system. This part may need replacement if RS-485, EPROM and SRAM replacements result in continued system control errors.
5. **Keypad Processor Board** – A failed keypad may require the replacement of the entire keypad processor board. Replacement of this board will result in the successful repair of 99% of remaining keypad related problems. *Note* - KPS keypads mis-installed or damaged by EMI (Electro-Magnetic Interference) are not covered under the Audioaccess warranty.
6. **Volume Control Assembly** – This volume control pot on the PX-600 and MRX controls the volume of Zone 6 in these systems. A broken volume assembly will cause the system to "lock up" when zone 6 is "turned on" inhibiting volume and source control in an entire system.

OVERVIEW

The PX-600 Field Repair Kit contains components that can be changed in the field to repair the PX-600 system. By following the below flow charts a PX-600 can be diagnosed and repaired at the job site. This will eliminate the need to remove the unit and have the customer down while the unit is being repaired.

PARTS INCLUDED

DESCRIPTION	*PART NO.*	*LOCATION*	*QTY*	*DLR EA*	*DLR EXT*
PX-600/KPS PARTS					
Ribbon Cable for Programmer	705-1000-800	PX-600 PROG	1	$10.50	$10.50
Fuse 2 Slo Blo	664-2101-200	MAINS FUSE	6	$0.93	$5.58
Fuse 1.5 5 X 20 mm	664-1001-500	KEYPAD	6	$1.47	$8.82
Fuse 1.6 Slo Blo	380-00160-00	KEYPAD (NEW)	6	$0.78	$4.68
Fuse 500ma Slo Blo	380-00050-00	F 1301 (INTERNAL)	6	$0.69	$4.14
LTC485 Bus Driver	605-0485-008	U 1106	12	$3.45	$41.40
Keypad Processor Board	450-9862-100	KPS	4	$38.82	$155.28
Volume Control ass'y	926-0600-002-00	FRONT PANEL	1	$60.50	$60.50
Microprocessor	606-8055-000	U 801	1	$26.82	$26.82
SRAM	606-1244-000	U 804	2	$31.95	$63.90
Software Eprom v2.04	610-1204-000	U 803	2	$20.00	$40.00

USING THE PARTS

We recommend that any parts used from this kit be replaced to maintain a constant stock within the kit for future service calls. Replacement parts for the kit or new kits can be ordered from Audioaccess with the enclosed parts order form. A list of parts and their quantities are also included.

In Warranty Repairs

Parts used from this kit for In Warranty repairs will be replaced at no charge provided a serial number for the unit is supplied. When calling Tech Services please have serial number and problem description handy. If the enclosed form is being used please be sure to fill out all the fields on the form or the part will be charged.

Out of Warranty Repairs

Parts used for Out of Warranty Repairs will be charged. As with In Warranty Repairs please supply serial number of unit when calling.

Should you have questions about the use of this kit or need help after all the steps have been followed, please call Audioaccess Technical Services at 888-691-4171.

TROUBLESHOOTING

Basic Troubleshooting Steps

Problem Encountered	*Find the problem component*	*solution*
Keypad locked up - lights come on but no functions. System locked up Zone or system locks up after ON button is pressed.	Unplug (isolate) all keypad wires from control unit and test unit functions from front panel. Test each keypad on system individually. Test using an alternate KPS addressed for the same zone.	Check all keypad connections. Set DIP switches for correct zone, room, & system. Insure data bus wires polarity. Replace KPS Processor assembly. Check front panel Volume knob is not rubbing on Motor Pot bracket. Gently pull out knob 1/16th".
Keypad has no functions and no lights	On back panel of head unit. Check bus fuse - Use ohmmeter to measure for 0 ohms. Check bus voltage -Use voltmeter across pin 1 & 4 – DC voltage is unregulated and should be between 8 – 14 volts DC.	Replace bus fuse w/ 1.5 A slo-blo Check data bus wires polarity. Replace KPS Processor assembly.
Slow reaction time from keypad, front panel or RT-A remote.	Check KPS terminator switch. Check wire terminations. Check for IR interference (Ambient light source)	Change to opposite direction and test system speed. Make sure there are no cut or frayed wires and that there are no intermittent shorts in wiring. Disable IR on keypad - DIP switch 9 UP.
Keypad turns on but there is Audio in the wrong zone or more than one zone.	This usually indicates the wrong zone or system address on the KPS keypad - Preamp output is connected to the wrong channels on the amplifier.	Check DIP switch address settings and make sure the proper zone and system codes are set. Change wiring to correct amplifier input.
Keypad turns on but there is Audio in more than one zone.	All on group is active. Check PX-600 back panel outputs	Test Zone again but do not issue a press and hold command at turn on from keypad. Variable audio comes out of the preamp section and NOT the zone outputs. All zone outputs become HOT when any zone is active.
No Audio in one zone	Identify Zone What type of Amp is powering this zone? Is it signal sensing turn on/off? Check Speaker continuity. Check Preamp output. Check amp inputs – Check Fuse Source dependent? - Check source input continuity and line level signal.	Turn all zones off but the problem zone. Use the Zone or Room command to find out which zone is active. Is there preamp line level signal. If so, check amp channel. Replace fuse with same value. Fuses. Change source or it's wiring connection.
No Audio in any zone	Amplifier ON?	Insure AC power to Amp. Is not switched unless system is designed to use current amp in this fashion.

	Is the amp plugged into a switched outlet that is not on? Check main power fuse to Amp and to Preamp.	Replace fuse with same value.
Audio always very loud in all zones. Sources can be controlled but volume can not.	Check PX-600 back panel outputs.	Variable audio comes out of the preamp section and NOT the zone outputs.
Audio drops out then returns	What volume level does this occur? Does this happen when music has soft passages in it? Is it source dependent? Does it always happen at the same volume level?	When using a PX-612 check by slowly adjusting the volume level to a softer point. Use the Zone button on PX-600 programmer or Room button on MRX to see what the actual level is. If the threshold is below 10 the amp needs to be modified.
Cross talk between inputs and zones.	Is the Audioaccess system used in conjunction with a local system? – IE: source sharing. Some MRX units inherently have this problem.	Disconnect the local system – if the problem is not present use a ground loop isolator in line with the local system feed. Install an SMM (Speaker Mute Module)
Hum in speakers	Is there a cable system integrated with this unit? Check for DC offset at source inputs. Is the Audioaccess system used in conjunction with a local system? – IE: source sharing	Remove the cable connection. If the problem is not present then use an IN-LINE ground loop isolator or make your own using 2pcs. of 75 to 300 ohm transformers back to back on the 300-ohm side. This effectively makes an isolation transformer. Disconnect the local system – if the problem is not present use a ground loop isolator in line with the local system feed.
Popping sound in speakers – associated with switching lights, motors, etc.	Check terminations for bad connections and loose wiring. Cabling routed too close to AC wiring, dimmers or electric motors. Systems connected to same AC circuit as electromechanical devices causing noises on system.	Terminate wires correctly. Re-rout cables away from AC wiring. Use different AC circuit for either the system or electromechanical device.
System or zone turns on seemingly by itself	Is there an extra ordinary amount of light shining on any keypad or the front panel of the system? Check for stuck button on keypad. If using an outboard control system,	Disable IR receiver in KPS keypad by putting DIP switch 9 in the UP position. If it is coming in through the front panel – PX-600 use a pigtailed 1/8” mono jack and plug it into the IR input on the back panel. MRX use a piece of Black tape to cover the IR receiver. Make sure buttons do not stick in the down position. Disconnect control system and test. If operational the problem lies in the control system

	check perameters of control system. Does it have functions for timed operations?	
MRX tuner has little or no reception.	Is the antenna connected? Powered Antenna? Check for Proper tuner set up.	Connect antenna. Make sure powered unit is supplied with the correct voltage (AC or DC). US frequencies should be set at .2MHz.
Front Panel "talk back" LED lit or blinking – no intentional input.	Is there an extra ordinary amount of light shining on the front panel? Use programmer screen to check status identifiers: I = Front Panel is receiving IR. K = Information from A keypad is being received at head unit. Either a button press or receiving IR. P = head unit is send IR to sources.	Front panels – PX-600 use a pigtailed 1/8" mono jack and plug it into the IR input on the back panel. MRX use a piece of Black tape to cover the IR receiver.
Front Panel LCD (MRX) has no font	LCD intensity potentiometer needs adjustment.	Remove the top cover of the MRX and find the small hole direct behind and to the right of the LCD screen. Use a small #1 blade screwdriver to gently move the potentiometer till the font is visible on the LCD screen.
Front Panel LCD (MRX) has no back light or is split	Check ribbon connections to front panel.	Make sure there is a complete connection and there are no shorted wires. .
Programmer LCD (PX-600) has no font	LCD intensity potentiometer needs adjustment.	Remove the top cover of the programmer and find the only potentiometer on this circuit. Use a small #1 blade screwdriver to gently move the potentiometer till the font is visible on the LCD screen.
Programmer LCD (PX-600) has no back light or is split	Check ribbon connections to front panel	Make sure there is a complete connection and there are no shorted wires or broken connectors.
Characters remain on LCD after back light goes off.	After PX-connect or MRX-connect this is normal.	If this happens at any other time call Customer support.
Tuner frequency displayed on LCD (MRX) does not match station being listed to.	Check that tuner set up is set for US standards.	US frequencies should be set at .2MHz. Use tuner preset button 1 and MUTE to activate main menu.
PX-600 or MRX constantly resets.	Remove keypads. If the problem still exists then it is an RS-485 Transceiver failure. If the problem stops then	Change RS-485 Transceiver. Put one Keypad on the data bus at a time until the bad keypad is found. Replace KPS processor board or entire keypad.
MRX Overheats	Does the fan run? Is the unit installed in cabinet w/no ventilation?	Remove cover and find the power wire to the fan. Use a multi meter to see if the fan's windings are still in tact. NO- replace fan. Ventilate cabinet.
PX-600 Overheats	Is the unit installed in cabinet w/no ventilation?	Ventilate cabinet.

MRX main fuse blown PX-600 main fuse blown	Check for shorted wiring. Check for source input DC offset. Check correct wall voltage.	Repair faulty wiring. Change or repair source. Connect to 110VAC.
No power on MRX switched outlets.	Does the AC relay click on power up? Check fuse on Power supply.	Change relay. Change fuse w/ correct value
No power on PX-600 switched outlet.	Does the AC relay click on power up? Check fuse on Power supply. Check fuse link at location F1301 near power supply.	Change relay. Change fuse w/ correct value Install jumper wire 24 ga. To replace this fuse.
Problems encountered after changing software.	Check the IC is seated correctly and installed in the correct direction.	Reinstall software correctly. Perform DATA reset to system.
IR emitter blows	Check to make sure the emitter is plugged into an emitter port and not the All or Blaster port.	If using the ALL output on PX-600 then remove cover and set jumper to emitter @ location P120. If using an MRX Blaster output then install in line with the emitter a 100Ohm ¼ watt %5 resistor to shunt the voltage.
Page Doorbell Module chimes constantly.	Check header settings. Check trigger wiring. Insure door station is powered.	If using one Panasonic door station only the si9ngle trigger input should be configured for this device. The other header should be set for contact closure or voltage trigger.
MRX fan always runs.	Check thermo couple on amplifier heat sink.	If always closed then replace.
MRX fan never runs.	Check thermo couple on amplifier heat sink. Check fan windings.	If always open replace.
LED source indicator changes on keypad but audio does not follow change.	Check DIP Switch settings. Check data bus wiring.	Use correct settings for system and zone. Correctly connect wiring.
IR input on keypad does not respond to commands issued from hand held IR remote.	Check DIP Switch 9 Does the remote have good batteries?	To enable IR put DIP switch 9 in the down position. Replace batteries in remote.
PX-603 room does not come on.	Check DIP Switch settings on KPS or PX-603. Check data bus wiring. Check PX-600 software	Use correct settings for system and zone and room. Correctly connect wiring. PX-600 software to work w/ PX-603 is Ver. 2.04.
PX-603 KPS keypad controls main room (0) and not the attached room.	Check DIP Switch settings on KPS or PX-603. Check data bus wiring. Check PX-600 software	Use correct settings for system and zone and room. Correctly connect wiring. PX-600 software to work w/ PX-603 is Ver. 2.04.
KP3 keypad does not function.	Check data bus wiring.	Data wires are 6 conductor and must be home run to PX-603. This is a one to one connection.
KP3 keypad lights up but controls the wrong room.	Check data bus wiring. Check DIP switch settings on back panel of PX-603	Use correct settings for system and zone and room. Correctly connect wiring. PX-600 software to work w/ PX-603 is Ver. 2.04.
PX-603 has no output.	Check feed to PX-603 from PX-600. Check speaker connection. Check speaker continuity. Check AC power.	Use Zone output from PX-600. Check continuity of interconnects from PX-600 to PX-603. Connect speaker. Replace speaker or wiring as necessary. The PX-603 requires constant power and **should not** be plugged into the PX-600 switched outlet.

PX-603 LED indicator light always stays RED. Unit is in protect mode.	Check AC line voltage. Check that speakers are not shorted. Check data bus connection.	Requires 110VAC constant. No lower than 8 Ohms per channel. Connect data bus with correct polarity.
PX-603 LED indicator light always stays Yellow. Unit is always in stand-by	Check line level signal feed continuity. Check DIP switch settings. Check Data bus connection.	Insure continuity to PX-603 input. Set switches to correct system, zone, and room address. Insure correct connection and polarity to data bus. When using KP3 keypads a 6-conductor wire must be home run.
PX-603 LED indicator light always stays Green. Unit is always ON.	Check DIP switch settings. Check Data bus connection. Check ALL ON group settings. Was the room turned on by issuing an All On command?	Set switches to correct system, zone, and room address. Insure correct connection and polarity to data bus. When using KP3 keypads a 6-conductor wire must be home run. All On commands are set in group set up for single systems and in Multi set up in multi configurations. To issue an All On command press and hold the ON button from a keypad that is not currently on.
PX-612 LED indicator light always stays RED. Amp is in protect mode.	Check AC line voltage. Check that speakers are not shorted and that the impedance is correct. Check for DC offset for sources or Preamp. Check for overheating.	Requires 110VAC constant. No lower than 4 Ohms per channel. Change or repair source. Change or repair Preamp. Ventilate cabinet.
PX-612 LED indicator light always stays Yellow. IE: unit does not come out of stand-by.	Check input signal from Preamp. Check continuity of cabling feeding amp.	Feed a direct signal to Amplifier such as from a CD player to see if it turns on and off with signal sensing. Change or repair defective cable.
PX-612 LED indicator light always stays Green. IE: Amp is always ON	Is there a cable system attached to the Audioaccess controller? Is there a local system sharing sources with the system? Some receivers short the input to ground when in stand-by condition.	Disconnect cable. If the problem goes away then use a ground loop isolator in line with the cable input feed. Disconnect wiring feeding the local system. If problem goes away use an in line (RCA style) ground loop isolator to bring the signal to the local system.
Subsequent units in multi system (other than system 1) always jump back to FM after another source key has been pressed.	PX-connect or MRX-connect sequence was not performed correctly.	Start system 1 and go into the multi set up menu. Choose multi set up again then identify which unit it is and how many units there are in the system. Follow all the steps in the menu. Go to the subsequent units and follow the same procedure. Last step is to go to multi set up in system 1 and run XX-Connect then exit programming completely. When exited push the All Off key on the front panel of the highest number system to the lowest. This provides a handshake between systems.
Subsequent units in multi system do not respond to any commands other than front panel.	Check Data bus connection.	Connect with correct polarity while not connecting the RED (or power) wire. Make sure keypads are correctly connected for

	Check keypad connections. Check Data bus fuse on back panel. Voltage between pins 1 & 4 should be between 8 to 13 VDC. This non-regulated and van be anywhere in this range.	polarity. Change fuse w/ 1.5 amp slo-blo
MCI Green LED does not indicate passing of code sets because it is not flashing.	Check Data bus connection. Check that MCI is receiving power from Data bus. Check outboard control systems connection and polarity. (RS-232)	Connect w/ correct polarity. The RED indicator LED should be lit if there is power at the MCI. Voltage between pins 1 & 4 should read between 8 to 13VDC. Insure correct connection and polarity from RS-232 connection.
MCI Red LED does not light	Check Data bus connection. Check data bus voltage at head unit.	Connect w/ correct polarity. The RED indicator LED should be lit if there is power at the MCI. Voltage between pins 1 & 4 should read between 8 to 13VDC.

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Technical Services
Information Sheet

AUDIOACCESS

PROGRAMMING DMX ON THE AUX INPUT

AUGUST 10, 1995

OVERVIEW

The following procedure should be used to program a DMX on the AUX input. The system will control the DMX unit in an individual channel advance and/or preset channel advance, See Figure#1.

PROGRAMMING

1. Go to LEARN IR.
2. Go to AUX.
3. Go to CD.
4. Enter number of discs as 10 or the number of presets you intend to use.
5. At AUX POWER enter the power command for the DMX.
6. Skip the PLAY and STOP sections for entering IR codes (leave those addresses in memory empty).
7. At SKIP TRACK enter the DMX code for channel advance (the tune up button).
8. In all the disc "A" prompts enter the DMX code for PRESET.
9. In all the disc "B" prompts enter the number of the preset that you wish to access. The easiest way is to start at 1 through 9 and then end with 0, which will be the 10th preset.
10. Follow the example below

FIGURE # 1

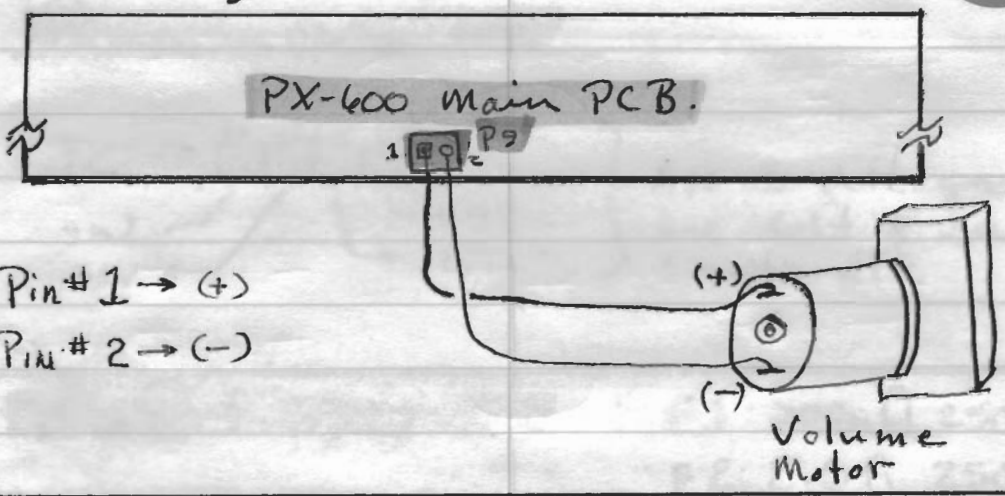
SAMPLE PROGRAMMING TABLE FOR scientific Atlanta DMX	
MRX / PX-600 DISPLAY	***DMX IR REMOTE BUTTON***
INPUT IR FOR AUX POWER	POWER
INPUT IR FOR AUX PLAY	NOT USED
INPUT IR FOR AUX STOP	NOT USED
INPUT IR FOR AUX SKIP TRACK	ADVANCE CHANNEL
INPUT IR FOR AUX DISC 1A	PRESET
INPUT IR FOR AUX DISC 1B	1
INPUT IR FOR AUX DISC 2A	PRESET
INPUT IR FOR AUX DISC 2B	2
INPUT IR FOR AUX DISC 3A	PRESET
INPUT IR FOR AUX DISC 3B	3
INPUT IR FOR AUX DISC 4A	PRESET
INPUT IR FOR AUX DISC 4B	4
INPUT IR FOR AUX DISC 5A	PRESET
INPUT IR FOR AUX DISC 5B	5
INPUT IR FOR AUX DISC 6A	PRESET
INPUT IR FOR AUX DISC 6B	6
INPUT IR FOR AUX DISC 7A	PRESET
INPUT IR FOR AUX DISC 7B	7
INPUT IR FOR AUX DISC 8A	PRESET
INPUT IR FOR AUX DISC 8B	8
INPUT IR FOR AUX DISC 9A	PRESET
INPUT IR FOR AUX DISC 9B	9
INPUT IR FOR AUX DISC 10A	PRESET
INPUT IR FOR AUX DISC 10B	0

This process will continue until the programming is complete for the number of presets you have selected. After the last disc B is entered, the programming display shows the source selection screen for LEARN_IR. From there you may program IR commands for other sources or press STORE/ENTER twice to exit programming mode.

If there are any questions regarding this programming procedure please call our Customer Support Department at 860-346-0896.

PX-600

Volume Drive Termination:



Main Transformer:

Orange : 8V AC ±
Yellow : 12V AC ±
Blue : 16V AC ±

Phoenix Volts:

MRX & PX-600:

9.3 → 10.5 VDC

PX-700:

13.0 VDC

MRX 600

CTRL $97.88

400-9862-703

Audio $120.24

400-9862-704

MRX: Vol. Pts:

(705-609-1001-105-A) *

705-1001-100 ~~1.27X~~ 2.86X
Ribbon

6600-1000-141 3.50X
Pot

750-2500-600 ~~1.30X~~ 6.25X
Board

735-1000-000 .01X
Bushing

MRX PS.
Caps:
18,000 uf/50V
640-3000-220

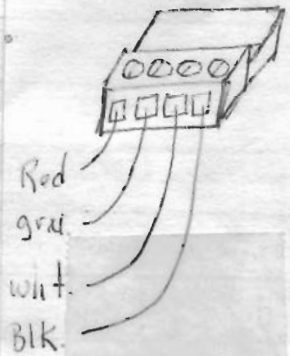
MRX - F1, F2, F3

F1: 4.8V AC RMS

F2: 6.9V AC RMS

F3: 8.7V AC RMS

KPS Phoenix



MRX
PX-600

F/P Repair (MRX)

780-1000-300 Lense .69x (1)
780-1000-400 LightPipe .72x (1)
780-1000-201 window .440x (1)
780-3000-400 F/P 13.32x (1)
735-2600-000 foamGasket .48x (1)
734-4000-006 washer/Nylon .04x (3)
940-0000-000 Labor $40.—

KPS Volts

135mV	Between Data Lines
7.0V	Between Red & Grn
7.18V	Between Red & Yellow
2.5V	Between Blk & Grn
2.3V	Between Blk & Yellow

MRX 14"

MRX-NT 15"

KPS

27mA each

MRX F/P P/B SW.

740-3000-500

MRX

IR LED:

150mV across IR LED (DC Volts)

Floating on -11Vdc IN Reference To ground

PX-600 Input Signal Level:

2Vrms / 2.828V P/P Max

MRX 600

Do Not Ship a Control PCB for MRX-MT without first setting Taper To Linear

600 x-former Loaded

Blue 16.5 VAC
Yellow 12.4 VAC
ORange 8.95 VAC

MRX Bug

V3.43 @ Audio Taper Selected.

V3.40 OK

PX-600 :

will Store IR Commands IN a system "0" or "1" only.

PX-600
- X-fmR -
O 8.5 VAC +/-
Y 11.5 VAC +/-
B 15.5 VAC +/-

MRX 600

Tuner

2200µf/25V: 200262 .82x
100µf/50V: 200222 .31x
10µf/25V: 640-2800-100 .04x
1µf/50V: 130-52210-00 .11x
220µf/25V: 140-32422-00 .06x

MRX Amp. Mod.

$526.00

400-9862-700

PX-600 Main PCB

926-0600-000-10
$480.00 Non Warranty

MRX Pot. Motor Assy.

705-1001-100 Ribbon 1.27x
660-1000-141 Pot. 3.50x
750-2500-600 Board 1.80x
735-1000-000 Bushing .01x

MRX → MRX-NT

List: $4700.00
Cost: $2495.00
Trade In: $1000.00
final $1500.00

Prog. Ribbon:

705-1000-800

Prog. Replacement

"Prog-00"

MRX Fan:

755-1000-001

PX-600

PX-600 F/P: Full Repair

F/P : 760-4600-002-C
Bezel : 780-0600-001-00
LightPipe : 780-0600-002
Adhesive : 735-0100-000-A
IR window : 780-0600-100
Right Side : 780-0600-050
Left Side : 780-0600-051

PX-600 PS Caps:

6800uf/35V : 640-2900-680
2200uf/35V : 200052
470uf/35V :
100uf/50V : 200222

PX-600 AA MULTI-ROOM PREAMP CONTROLLER

Revision Level: 03 Engineering Status: AL Comment: NORTH AMERICAN VERSION
Drawing Number:

Line	Rev	Start Date	Stop Date	Part Number	Rev	Description	Quantity	U/M
4		1/15/03		630706		LIT MAN AA WARRANTY REGISTRATION CARD AS PER- 630706 POSTSCRIPT AND PDF FILES REPLACES 500-00000-00 PER ECN3356- 1/15/2003 ECN3356- 1/15/2003	1	EA
30	01	1/23/98		801-3150-000	00	PKG ANTISTATIC SHIPPING BAG 24" X 24" OPEN END BAYSTAT #CS37542 POLYMER PLASTICS CORP- SE-P4F24X24	1	EA
40	01	1/23/98		800-3160-000-00	00	PKG KRAFT SHIPPING CTN 22.5" X 20" X 9.75"	1	EA
52		7/ 3/02		805-3000-008	00	PKG PX600/PX700/VX241 SHIPPING FOAM SET SET= FOAM AND PAD ECN3204- 6/3/2002	1	EA
80	01	1/23/98		801-3350-000	00	PKG SHIPPING BAG 9"X12"X2MIL CLEAR POLY NORTHEAST POLY #480	1	EA
90	02	2/24/98		825-0600-000-B	01	INSTALLATION MANUAL, PX-600 IN-HOUSE OR OUT OF HOUSE	1	EA
100	02	9/ 4/98		826-0600-000-B	B	OWNER'S MANUAL, PX-600 OUT OF HOUSE	1	EA
120	01	1/23/98		820-5000-000-A	00	AUDIOACCESS SAFETY SHEET EITHER IN-HOUSE OR OUT OF HOUSE ORIGINAL @ MAD MKTG	1	EA
130	01	1/23/98		870-0600-000-A	00	LBL SER #PX-600 GENERATED IN-HOUSE USING P/N 470-00044-00.	1	EA
140	04	10/ 1/01		920-0600-000-02	04	ASS'Y, FINAL, PX600-US ASSEMBLED AND TESTED ECN2986- 10/1/2001	1	EA
10	1	11/ 6/97		688-2500-000	00	WIR CORDSET 8' IEC USA PACIFIC ELECTICORD- C-3120-008BL	1	EA
28		10/ 1/01		760-4600-005-G		METAL PX-600 TOP COVER REV G AS PER DWG# 760-4600-005-G ECN2986- 10/1/2001	1	EA
85		11/10/97		667-1000-006	00	CONN TERM SCREW 4POS PLUGABLE PHOENIX# 1754481 DIGIKEY# 272-1002-NDL	1	EA
95		11/13/97		730-2321-101	00	SCREW, 6-32x1/4"PH PAN TAP BLK	6	EA
100	06	10/ 1/01		921-0600-000-00	06	KIT, CHASSIS, PX600 ECN2986- 10/1/2001	1	EA
5		11/11/97		370-00042-00	00	XFR PX600 120V UL/CSA VENDOR PART # "PACIFIC" 19775	1	EA
12		10/ 1/01		760-4600-006-H	00	METAL PX-600 US CHASSIS AS PER DWG# 760-4600-006-H ECN2986- 10/1/2001	1	EA
20		11/ 6/97		690-3500-010	00	CONN AC MALE W/SWITCH & FUSE **THIS IS A 3PC PART**	1	EA
30		11/ 6/97		720-2500-010	00	MISC PLSTC FOOT GOLD SNAP IN FOOT-A-03-K2 GALLIEN TECHNOLOGY P/N 101-0000-0	4	EA
44		7/17/00		926-0600-000-H0	00	AA PX600 TK MAIN BD ASS'Y ECN2696- 7/17/2000	1	EA
50		11/ 6/97		730-2320-000	00	HDW SCR #4X3/8" BLK SHT MTL	12	EA
60		11/ 6/97		730-2117-000	00	HDW SCR PAN HD PHIL 4-40X1/4" ZINC	8	EA
70		11/ 6/97		734-3500-004	00	HDW WSH #4 INTERNAL STAR SAME AS 611-10000-00	8	EA
80		11/ 6/97		730-2117-001	00	HDW SCR PHIL 4-40X1/4" BLK SELF TAP	2	EA
90		11/ 6/97		730-2117-003	00	HDW SCR PHIL PAN HD MCH 4-40X5/8" BLK	7	EA
100		11/ 6/97		770-1200-000	00	HDW ELEC SPACER HEX 4-40X5/16" NYLON HEX MICROPLASTICS 14HTSP022	7	EA
105		11/ 6/97		736-2117-000	00	HDW NUT KEP 4-40X1/4" USE CIT 610-10100-00 FOR A SUB SAME AS MADRIGAL 420913	7	EA
120		11/ 6/97		700-0600-000-A	00	WIR 18AWG BLK MF/MF 3" ASS'Y	1	EA
130		11/ 6/97		700-0600-001-A	00	WIR 18AWG WHT MF/MF 3.2" ASS'Y	1	EA
140		11/ 6/97		700-0600-002-A	00	WIR 18AWG G/Y RT/ST 3.5" ASS'Y	1	EA
150		11/ 6/97		458-00041-00	00	WIR 12" WHT 26AWG F-F ASSY	1	EA
160		11/ 6/97		734-3500-006	00	HDW WSH #6 INTERNAL STAR SAME AS CIT 611-20000-00	1	EA
170	01	7/ 8/98		600-20004-00	00	SCRW, MCH PH PN ZNC, 6-32X0.500" MASTER FASTENERS #632X0500PPMSZ	1	EA
180		10/ 6/98		420842		HDW NUT KEPS 6-32 ZP	2	EA
190		11/ 6/97		420004		HDW SCR PAN HD PHIL 6-32 x .375 BLACK OX	2	EA

					SAME PART AS 730-2321-001		
202		4/10/01	735-4500-000	00	HDWRE PLSTC TYWRAP 4"	3	EA
					MOUSER #561N3500		
					ECN2879- 4/10/2001		
210		11/ 6/97	736-2200-000	00	HDW NUT HEX 6-32 NYLOCK	2	EA
					TOWER- 6CNNMS (TOWER ORDER#)		
					ECR 1288- 1/13/2000u		
220		11/ 6/97	734-1000-010	00	WASHER, RUBBER GROMMET	2	EA
					KEYSTONE #730		
240		11/ 6/97	690-3000-001	00	CONN AC FEMALE RECEPTACLE	1	EA
					POWER DYNAMICS, PD-15-1		
250		11/ 6/97	700-0600-004-A	00	WIR 18AWG BLK MF/SF 5" ASS'Y	1	EA
260		11/ 6/97	700-0600-005-A	00	WIR 18AWG WHT MF/SF 5" ASS'Y	1	EA
270		11/ 6/97	700-0600-006-A	00	WIR 18AWG G/Y RT/ST 5" ASS'Y	1	EA
280	03	6/18/99	926-0600-001-E0	00	AA PX600 TK FP BD ASS'Y	1	EA
292		2/10/00	741-1000-021-00	00	MISC PLSTC PX600 KNOB MODIFIED	1	EA
					ECN2618- 2/10/2000		
10		11/ 6/97	741-1000-020	00	MISC PLSTC PX600 KNOB TAC AP2500	1	EA
					TAC 1630-04902		
302		2/10/00	640-00125-00	00	HDWRE PLSTC NYLON SPACER RND .1875"X.125	3	EA
					ECN2618- 2/10/2000		
310	01	4/16/99	780-0600-001-00	00	HDW PLSTC PUSHBTN BEZEL MODIFIED	8	EA
320		11/11/97	780-0600-002	00	HDW PLSTC BEZEL LIGHT PIPE TAC	8	EA
					TAC 1732-08801		
					AS PER DWG# 780-0600-002		
330		11/11/97	740-0600-000	00	HDWRE PLSTC SWITCHCAP PUSHBUTTON TAC	8	EA
					TAC 1662-66902		
340		11/11/97	735-0100-000-A	00	LBL PX600 FP ADHESIVE DIE CUT	1	EA
350		11/11/97	780-0600-100	00	LENSE PX-700 IR WINDOW	1	EA
					TAC 1532-21101		
360		11/11/97	770-1500-100	00	HDW ELEC SPACER .20" T1 LED NYLON	8	EA
370		11/11/97	736-2117-000	00	HDW NUT KEP 4-40X1/4"	8	EA
					USE CIT 610-10100-00 FOR A SUB		
					SAME AS MADRIGAL 420913		
380		3/ 5/98	730-2321-101	00	SCREW, 6-32x1/4"PH PAN TAP BLK	16	EA
390		11/11/97	780-0600-050	00	HDW PLSTC END CAP RT TAC 90MM	1	EA
					TAC 1562-08302		
410		11/11/97	705-1000-850-A	00	WIR 26 PIN F-F 13" RIBBON ASS'Y	1	EA
420		11/11/97	760-4600-001-D		METAL PX-600 Z BRKT	1	EA
432		10/ 1/01	760-4600-002-C	00	METAL PX-600 FRONT PANEL CHASSIS	1	EA
					AS PER DWG# 760-4600-002-C		
					ECN2986- 10/1/2001		
440		11/11/97	760-4600-000-D	00	METAL PX-600 POT MOUNT BRKT	1	EA
450		12/ 1/97	735-3500-100	00	TAPE VINYL FOAM ASHESIVE 1/6"X1/2"	16	IN
					3M # 4726		
					1 ROLL IS EQUAL TO 36 YDS (1296.00")		
					18 ROLLS TO A CASE. MIN FROM 3M IS 18RLS		
460	01	5/ 7/99	610-1204-000	00	ICS DIG PROG EPROM PX-600 V2.04	1	EA
10		10/10/97	610-2712-000	00	ICS DIG PROG EPROM 27C512-200 UNPRG'D	1	EA
					TEXAS INSTRUMENT TMS27C512-20JL OR EQUIV		
					SGS M27C512-20F1		
470		3/10/99	606-1244-000	00	ICS DIG BQ4011Y-200 RAM	1	EA
					BENCHMARQ BQ4011YMA-200		
480		3/10/99	606-8055-000	00	ICS DIG 80C552-4A68	1	EA
					SIGNETICS- PCB80C552-4		
					PHILLIPS- PCB80C552EBA		
500		12/29/99	380-00050-00	00	FUS 500MA 250V SLO-BLO 5X20MM	1	EA
					CITATION PART EQUIV = 380-00060-00		
					1R 35A 250VAC BK/GMD-500MA		
					BUSSMAN GMD-500MA		
510		12/29/99	380-00160-00	00	FUS 1.6A 250V SLO-BLO 5X20MM	1	EA
					BUSSMAN GMD 1.6A		
520		12/29/99	470-00042-00	00	LBL PX600 500MA 250V SLO-BLO FUSE LABEL	1	EA
530		12/29/99	664-2101-200	00	FUS 2 AMP UL SLO-BLO 5X20MM	2	EA
					LITTELFUSE 239002		
540		2/10/00	735-0600-000		MISC MECH PX600 LIGHT BLOCK PAD	1	EA
					AS PER DWG# 735-0600-000		
					ECN2618- 2/10/2000		
105		11/13/97	780-0600-051	00	HDW PLSTC END CAP LT TAC 90MM	1	EA
					TAC 1562-08202		
150		6/ 3/02	503-00042-00		LIT AA PX600 UNPACK&PACK SHEET	1	EA
					IN-HOUSE GENERATED.		
					SEE ENGINEERING FOR PDF MASTER		
					ECN3223- 6/3/2002		