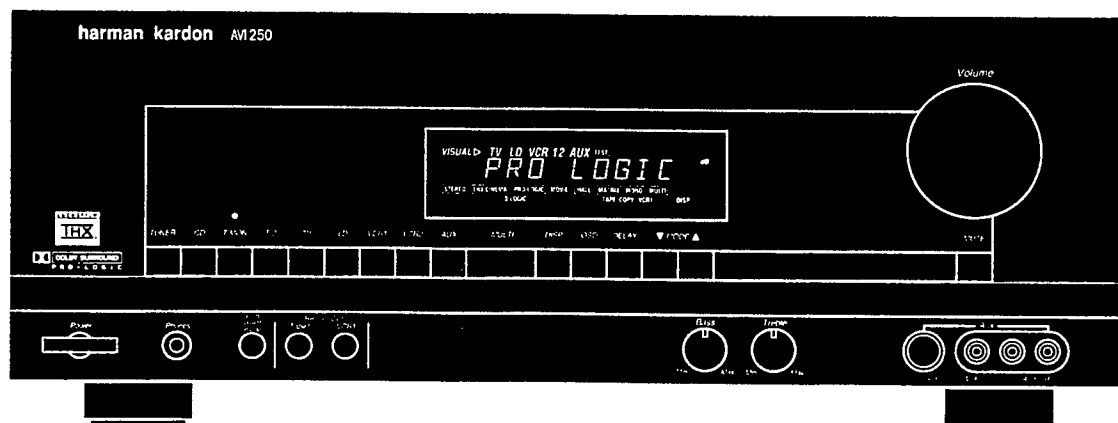


The Harman Kardon Model AVI250 AUDIO AND VIDEO AMPLIFIER

Manual A

Technical Manual



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harman/kardon

Parts and Service Office
80 Crossways Park West, Woodbury, N.Y. 11797
1112-AVI250 1200 Printed in Japan

SPECIFICATIONS

Audio Section

Stereo Mode

Continuous Average Power (FTC)

100 Watts per channel 20Hz-20KHz:

@ <0.07% THD, both channels driven into 8 Ohms

Five Channel Surround Mode

Continuous average power per channel (FTC)

Front L&R channels:

85 Watts per channel from 20Hz-20KHz,

@ <0.05% THD, both channels driven into 8 Ohms

Center channel:

85 Watts from 20Hz-20KHz,

@ <0.05% THD, driven into 8 Ohms

Surround channels:

60 Watts per channel from 40Hz-20KHz,

@ <0.05% THD, both channels driven into 8 Ohms

Input Sensitivity/Impedance

Linear 220mV/50 Kohms

Front Main In 1.5 V/20 Kohms

Center Main In 1.5 V/20 Kohms

Surround Main In 1.0 V/20 Kohms

Signal to Noise Rate (IHF-A)

Linear 95 dB

Dolby Surround

Channels Separation 40 dB

Frequency Response

@ 1W (+0, -3 dB) 7Hz-80KHz

High Instantaneous

Current Capability (HCC) 30 amps

Transient Intermodulation

Distortion (TIM) Unmeasurable

Rise Time

16 μ sec

Slew Rate

40 V/ μ sec

Video Section

Television Format

PAL, NTSC, SECAM

Input Level/Impedance

1Vp-p/75 Ohms

Output Level/Impedance

1Vp-p/75 Ohms

Video Frequency Response

10 Hz to 80 MHz (-3 dB)

S/N

65 dB

General

Power Requirement

AC 230V 50 Hz

Power Consumption

54W idle, 700W maximum

Dimension (Max)

Width

17.4 inches (444 mm)

Height

6.4 inches (160 mm)

Depth

18 inches (459 mm)

Weight

31 Lbs. (14 kg)

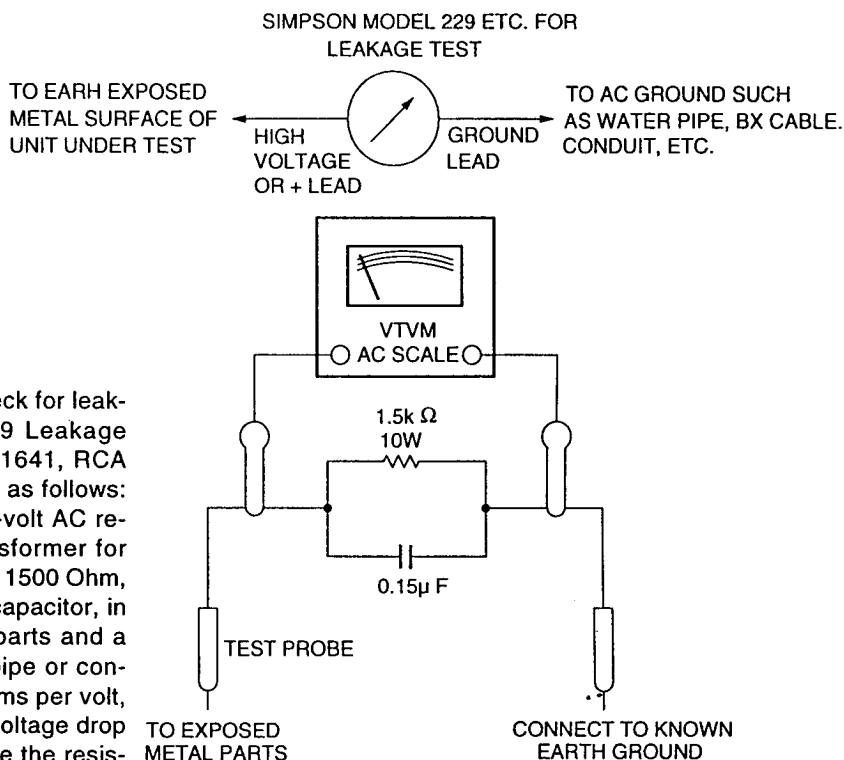
Specifications and components are subject to change without notice. Overall performance will be maintained or improved.

LEAKAGE TEST (FOR SERVICE ENGINEERS IN THE U.S.A.)

Before returning the unit to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.
2. Be sure that any protective devices such as nonmetallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc. Which were removed for servicing are properly reinstalled.
3. Be sure that no shock hazard exists; check for leakage current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows: Plug the power cord directly into a 120-volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a 1500 Ohm, 10-watt resistor paralleled by a 0.15 μ F capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 Ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See Diagram.) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the power switch in both the On and Off positions.)

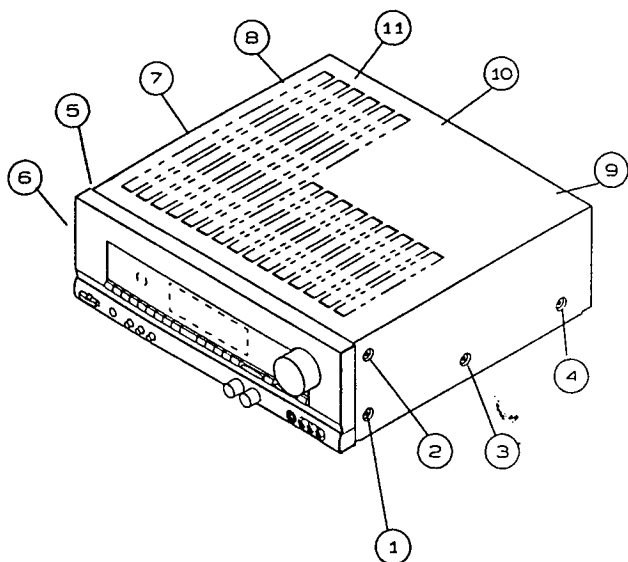
A reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



DISASSEMBLY PROCEDURES

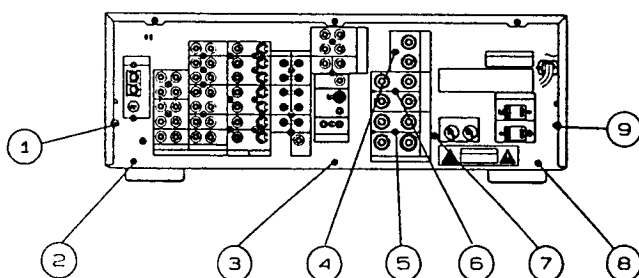
1. Removing the top cover

Remove the screws ① ~ ⑪



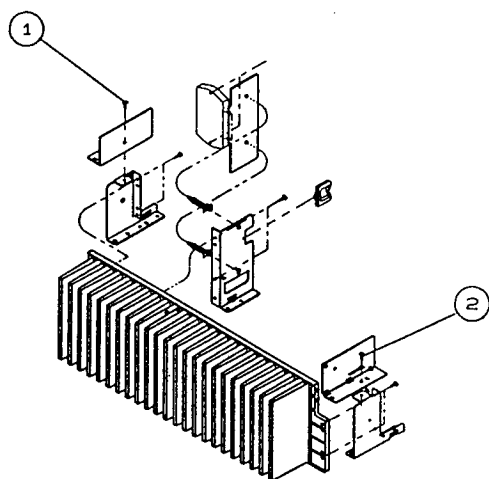
2. Removing the rear panel

Remove the screws ① ~ ⑨



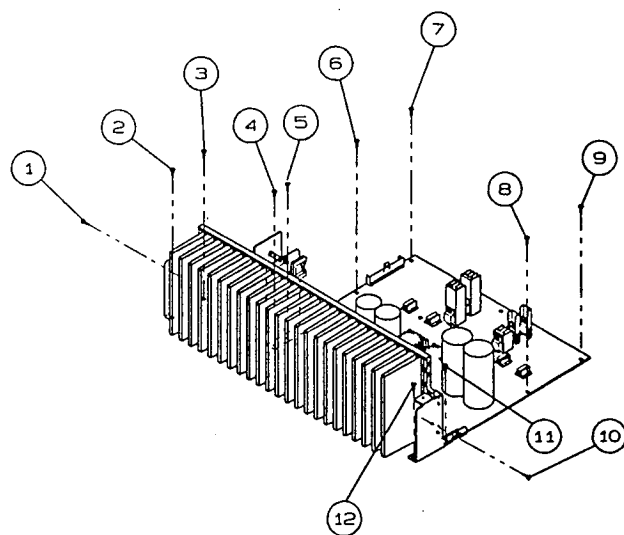
2. Removing the shield panel

Remove the screws ① ~ ②



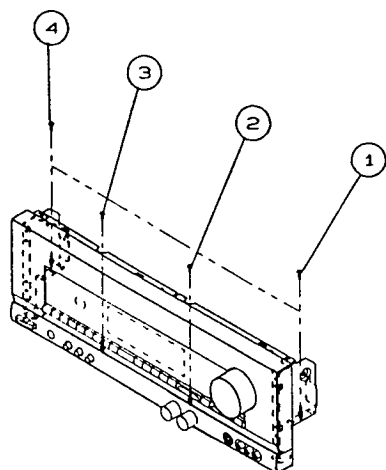
5. Removing the heatsink

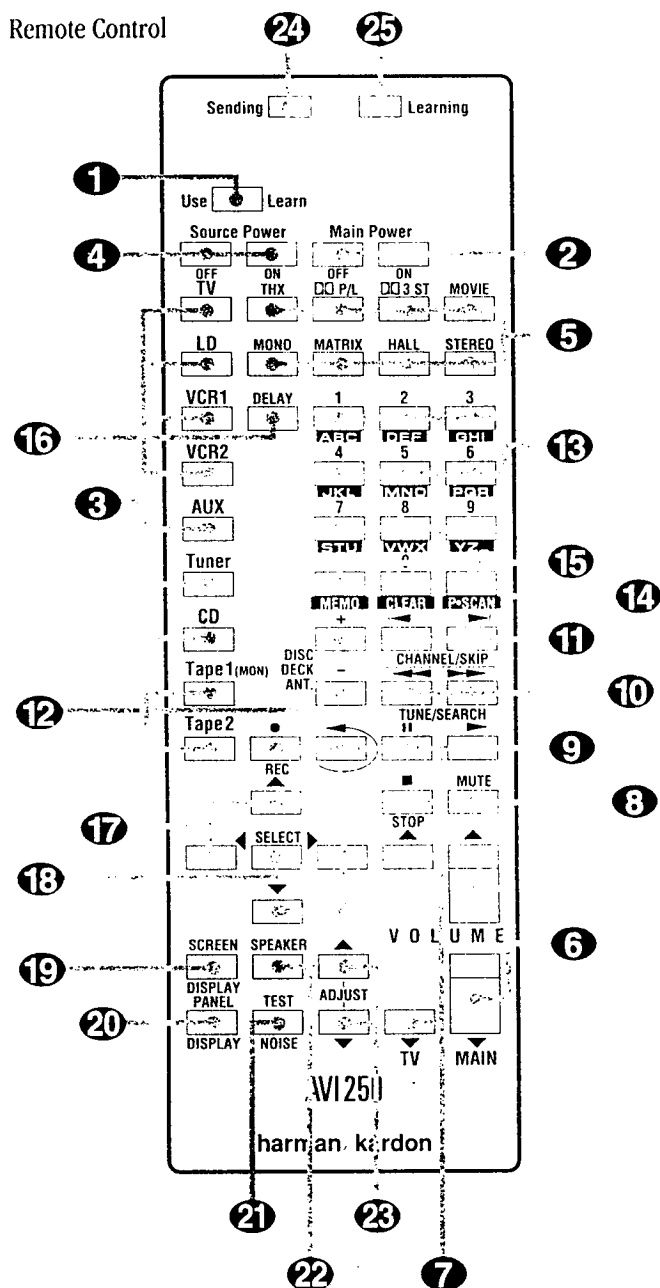
Remove the screws ① ~ ⑫



3. Removing the front panel

Remove the screws ① ~ ⑭





1 Use/Learn: This switch selects the operation mode of the remote control. Slide it to the left for normal operation. Slide it to the right when the remote is being programmed.

2 Main Power: Press these buttons to turn the unit on or off.

3 Source Selection: Pressing one of these buttons selects the input source that will be listened to through the receiver. When a source is selected the remote's transport and numeric number buttons will also transmit the commands needed to control that machine.

4 Source Power: Press these buttons to control power for the last source device selected.

5 Surround Mode Selection:
Press one of these buttons to select a surround mode for the current listening session.

6 Main Volume: These buttons control the unit's volume. Note that all channels are controlled simultaneously.

7 TV Volume: These buttons adjust the volume for TV using the remote control codes programmed into the remote for a TV set or cable box. These buttons control the TV set only, regardless of which source is selected. This enables you to control the audio level of a TV set even when the receiver is not in use.

8 Mute: Press this button to temporarily cut the unit's audio output. Press it again to return to the previous volume level.

NOTE: The ability of the remote to control source equipment, such as tuners, CD players and tape decks may vary with the compatibility of the product under control with the preprogrammed codes in the AVI 250's remote. If the unit does not respond with the function described here, it may be necessary to reprogram the remote using the "Learning" function described elsewhere in this manual.

9 Transport Controls: These buttons control the tape or disc motion of the last playback source selected with the Source Selection buttons **3**. Use them as you would the Play, Stop, Pause, Reverse Play and Record buttons on any VCR, CD or LD remote control.

10 Tune/Search & Fast Forward: (These buttons have multiple functions, which vary according to the input device selected.)

a. When a **TUNER** has been selected, these buttons are used to manually tune stations.

b. When **CD**, **LD** or **VCR** is the input source, these buttons act as the Fast Scan Forward  or Fast Scan Reverse  controls.

11 Channel/Skip: (These buttons have multiple functions, which vary according to the input device selected.)

a. When **TUNER** has been selected, these buttons will scroll up  or down  through the stations that have been programmed in preset memory.

b. When **TV** or **VCR** is selected, they are the channel up or channel down tuning buttons.

c. When **CD** or **LD** is selected these buttons act as forward and reverse "Skip" buttons to move to the next track or chapter on the disc.

d. When a compatible Harman Kardon cassette player has been selected as **Tape 1** or **Tape 2**, these buttons move the tape forward  or backwards  to the next selection using the Music Scan feature.

12 Disc/Deck/Ant: (These buttons have multiple functions, which vary according to the input device selected.)

a. When **CD** is selected and the unit is a CD changer, these buttons will change to the next disc **+** or previous disc **-**.

b. When **Tape 1** or **Tape 2** is the input source, and the tape machine is a compatible Harman Kardon dual cassette deck, these buttons will switch between the "A" and "B" sides.

c. When **VCR 1** or **VCR 2** is the input source, these buttons switch between VCR and TV as the unit's output.

d. When **TV** is the input source, these buttons may switch between video input sources or antenna/video, depending on the TV model.

e. When **LD** is the input source, these buttons will switch the side being played from "A" to "B" on compatible dual side players.

f. When **TUNER** has been selected, these buttons will change the frequency band

13 Number Keys: These buttons serve as a ten button numeric keypad to enter tuner preset positions or station frequency. They are also to be used to select channel numbers when **TV** has been selected on the remote, or to select track numbers on a CD or LD player, depending on how the remote has been programmed. The letters below the buttons are used to enter information for tuner station names.

14 P-Scan: Press this button to automatically scan through the stations preset into the memory of a compatible tuner.

15 Memo: The memo button is used to enter stations to a compatible tuner's preset memory in either the manual or automatic modes.

16 Delay: This button controls the amount of sound delay to the rear (surround) channels. Press it to increase the delay in the steps shown in the main Information Display or on-screen graphics.

17 Menu Controls: These buttons control the action of the cursor or the selection of menu items when the unit is being configured using the setup menus.

18 Select: This button enters settings to the unit's memory during system configuration.

19 Screen Display: Press this button to activate the on screen menu system.

20 Panel Display: Press this button to turn off all displays and indicators in the Information Display except for a small **DISP** indication in the lower right corner of the display **5**. Press the button again to turn the display back on. Note that the display will briefly illuminate when a command is sent to the unit from the front panel or remote, even though the display is turned off.

21 Test Noise: Press this button to begin calibration of the output level for each channel. A test signal will immediately be heard from the left front speaker and the **TEST** indicator **2** will flash.

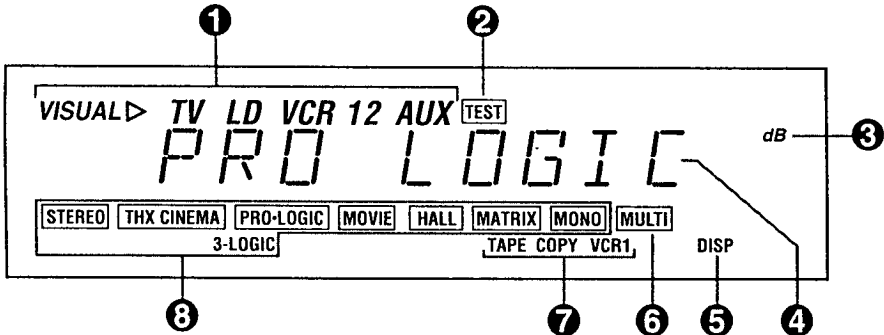
22 Speaker Select: When setting the system output levels, this button selects the speaker position being adjusted. Press it once to advance to the next speaker after each position is adjusted.

Ⓜ Level Adjust: When setting the system output levels, press these buttons to increase or decrease the output level.

24 Sending LED: This indicator should flash any time a button is pressed to confirm that a command is being sent. If the light is dim or does not illuminate when a button is pressed the batteries in the remote should be replaced.

25 Learn LED: This indicator will illuminate when a button on the remote is being programmed with signals from another remote during the “learning” mode. The light will go out when the signal is received and memorized.

Information Display



1 "Visual" Indicators: These indicators display which input source is being fed to the video monitor output.

2 Test: This indicator flashes when the output levels are being set using the built in test signal generator.

3 Volume Indication: The last two indicators on the information display indicate the volume level. Note that 0dB is the reference level, not an indication that there is no output.

4 Main Information Display: This ten digit display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of the unit's operation.

5 DISPLAY: This indicator lights when the FL display has been turned off using the **Display** button **10** to remind you that the unit is still turned on.

6 Multi: This indicator signifies that the unit is sending a program source to a remote room location. Note that it may be illuminated even when the unit is "off" in the main listening room, signifying that operation continues at another location. When a remote command is being received via the **Multi** IR connection, this indicator will flash.

7 Copy Indicators: The TAPE COPY indicator lights when an input other than the current source has been selected to copy Tape 1. The VCR COPY1 indicator signifies that the input to VCR 1 is other than the currently selected source.

8 Mode Status: These indicators display the currently selected surround mode.

SERVICE PROGRAM

1. FLD segment luminous

This service program can be luminous all segments by following step.

When the POWER ON, press the "FM/AM(TUNER)" button while pressing the "MEMO" button.

When finish the following procedure this service program should be stop.

Luminous procedure

1. All segments luminous 5 seconds.

2. At the grid "1G", segments luminous following procedure.

① KHz → ② MHz → ③ R → ④ PEAK → ⑤ L → ⑥ MULTI → ⑦ MONO → ⑧ MATRIX →
⑨ HALL → ⑩ P-SCAN → ⑪ TAPE → ⑫ COPY → ⑬ VCR1 → ⑭ SLEEP → ⑮ DISP → ⑯ TX

3. At the grid "2G" to "11G", each one segment luminous step by step.

4. At the grid "12G", segments luminous following procedure.

① VISUAL → ② SIGNAL LEVEL → ③ CH → ④ SIGNAL BAR (LEFT SIDE) →
⑤ SIGNAL BAR (2nd LEFT) → ⑥ SIGNAL BAR (CENTER) → ⑦ SIGNAL BAR (2nd RIGHT) →
⑧ SIGNAL BAR (RIGHT SIDE) → ⑨ STEREO → ⑩ THX CINEMA → ⑪ PRO.LOGIC →
⑫ MOVIE → ⑬ AUTO MEMO → ⑭ 3.LOGIC → ⑮ SIMUL'D → ⑯ SURROUND

2. Selector check mode

This service program can be operate input selector and surround mode in automatically as following procedure. This service program continually repeat until power off.

When the POWER ON, press the "SURROUND MODE+" button while pressing the "MEMO" button.

STEP	INPUT SELECTOR	DSP MODE	COPY SWITCH		NOTES
			TAPE	VCR1	
1	FM	STEREO	SOURCE	SOURCE	
2	MW	STEREO	↑	↑	
3	CD	STEREO	↑	↑	
4	TAPE	P-LOGIC	TUNER	SOURCE	
5	TAPE2	MOVIE	SOURCE	TV	
6	TV	3 CH	↑	SOURCE	
7	TV	HALL	CD	LD	
8	LD	MATRIX	TAPE2	TV	
9	VCR1	MATRIX	TUNER	VCR2	
10	VCR2	STEREO	TUNER	SOURCE	
11	AUX	STEREO	SOURCE	AUX	

ALIGNMENT PROCEDURES

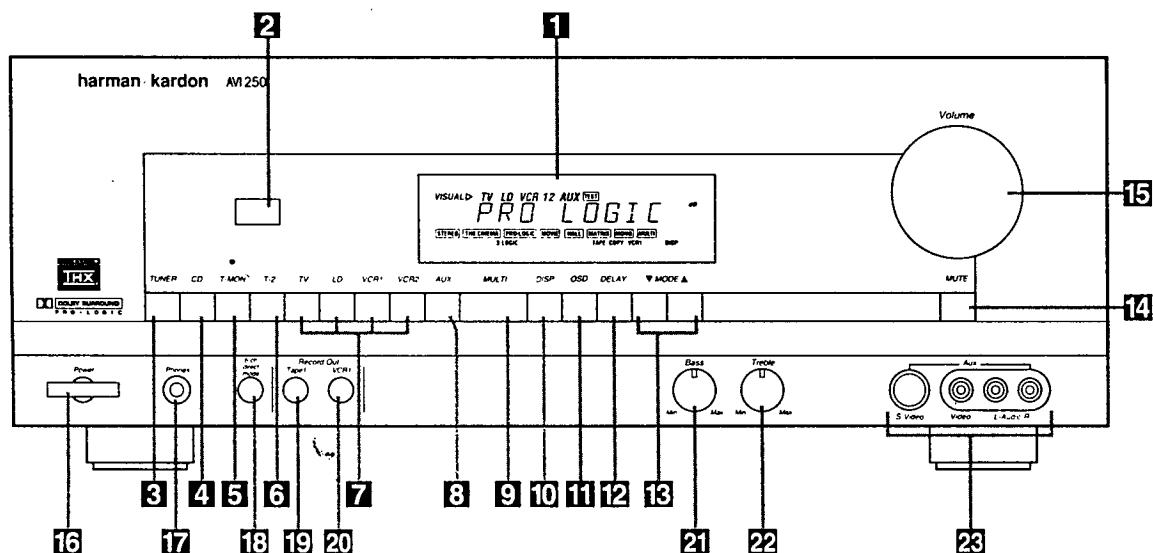
1. On Screen Display VCO Adjustment

Step	Input Signal Source and Connection	Measuring position	Measuring equipment	Input selector	Adjustment Point	Adjustment Value
1	Color bar or other standard video signal. Video signal generator output to LD video input.	IC QX60 26pin and GND.	DC voltmeter (Impedance > 10K ohm/V)	LD	CX67	2.5V +0.1V

REMARK: Connect the TV monitor to the monitor output terminal of the product.

CONTROLS AND FUNCTIONS

Front Panel



1 Information Display: This display delivers messages and status indications to help you operate the receiver. Refer to the separate diagram for complete explanation of the FL display.

2 Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed.

3 Tuner: Press this button once to select your tuner.

4 CD: Press this button to select your CD player.

5 Tape1/Monitor: Press this button to select Tape One as the input source. A red LED above the button will illuminate to indicate that the Tape Monitor has been selected.

6 Tape 2: Press this button to select Tape 2.

7 Video Sources: Press any of these buttons to select a video input source.

8 Aux: Press this button to select the source connected to the front panel Aux jacks.

FUNCTION BUTTONS

NOTE: Pressing any of FUNCTION buttons **3** to **8** in standby mode switches power ON.

9 Multiroom Audio Select: Press this button to turn on the feed to the remote zone. The remote zone will stay on after the main power switch is turned off until it is switched off by the remote room control or by pressing this button again.

10 Display: Press this button to turn off the front panel FL display. The DISP indicator will illuminate to remind you that the unit is still turned on.

11 OSD (On Screen Display): Press the button briefly to display a system status report on your video screen.

12 Delay: Press this button to adjust the delay to the rear (surround) channels.

13 Mode: Press these buttons to scroll up ▲ or down ▼ through the list of available surround modes.

14 Mute: Press this button to cut the output to the speakers. Press it again to return to the previous volume level.

15 Volume Control: Turn the knob clockwise to increase volume, counterclockwise to decrease the volume. Note that approximately two revolutions of the knob are required to go from no output to maximum volume.

16 Power: Press this button to turn the unit on or off.

NOTE: When the Power is turned OFF from the remote control unit while the POWER switch on the main unit is pressed in, the unit enters the STANDBY mode. In this case, the STANDBY LED lights in amber.

NOTE: When the Power Switch is in the "OFF" position, the unit is in a "Standby" condition and is NOT disconnected from the AC mains supply.

STANDBY LED

NOTE: The STANDBY LED lights in red when the speaker protector relay is OFF, for example after switching power ON or when speakers are overloaded. The LED usually lights in green. In case the LED lights in red due to speaker overloading, etc., switch the power OFF temporarily then ON again in a few seconds.

17 Headphone Jack: Plug standard stereo headphones into this jack for private listening.

NOTE: When the headphones are in use the output to the speakers is muted and the surround mode is automatically switched to STEREO. When the headphones are removed from the jack, sound to the speakers is restored and the unit returns to the previous sound mode.

18 6 Channel Direct: Press this button to select the output of an external multichannel audio adapter.

19 Tape 1 Copy: Press this button to select the input for the recorder connected to Tape 1. The first press will select the source currently being listened to. Press again to select the input in the following order: Tuner → CD → Tape 2 → Source.

20 VCR1 Copy: Press this button to select the input to the recorder connected to VCR 1. The first press selects the input currently being viewed. Press the button again to select the input in the following order: TV → LD → VCR2 → AUX → Source.

21 Bass: This knob adjusts the tone of low frequency sounds. Turn it to the right to boost bass frequencies or to the left to cut bass frequencies.

22 Treble: This knob adjusts the tone of high frequency sounds. Turn it to the right to boost high frequencies or to the left to cut high frequencies.

23 Front Panel Inputs: Audio or Video sources connected to these jacks may be selected by pressing the Aux button **8**.

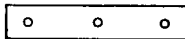
RN64



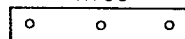
RN63



R760



R759



R744



IDL. ADJ

R743



IDL. ADJ

2. Main amp idling current adjustment

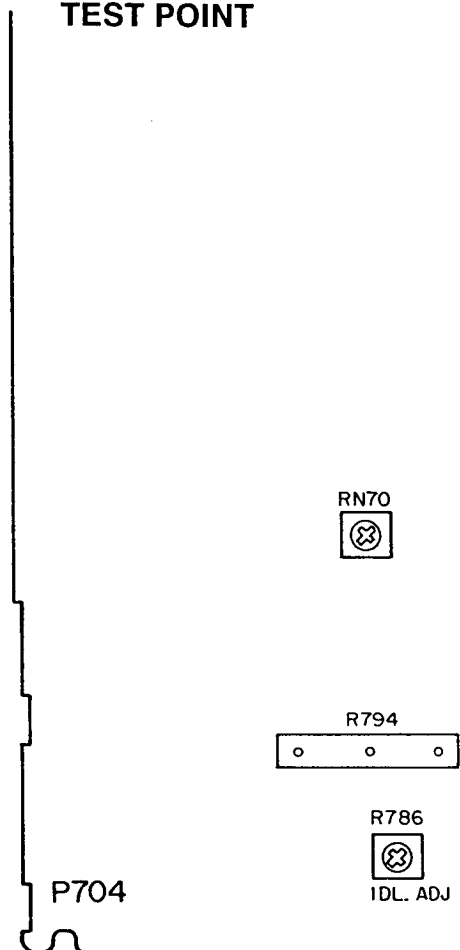
- 1) With the power OFF, set semi – fixed resistor R743 (Lch), R744 (Rch), R786 (Center ch) on the PC board (PV04) to the center position.
- 2) Connect a digital voltmeter, set for the DC range, between the emitter resistor [R759 (Lch), R760 (Rch), R794 (Center ch)] on the PC board (PV04).
- 3) After the above, adjust the idling current as follows:
Turn the power ON and adjust semi – fixed resistor R743 (Lch); R744 (Rch), R786 (Center ch) while observing the digital multimeter indication.
* The target value is 7.2 mV (20 mA).

All values are with no load on speaker terminals, volume set to minimum and no input with the unit switched to the CD position. Always allow the amplifier to stabilize for 10 minutes or longer prior to adjusting idle current.

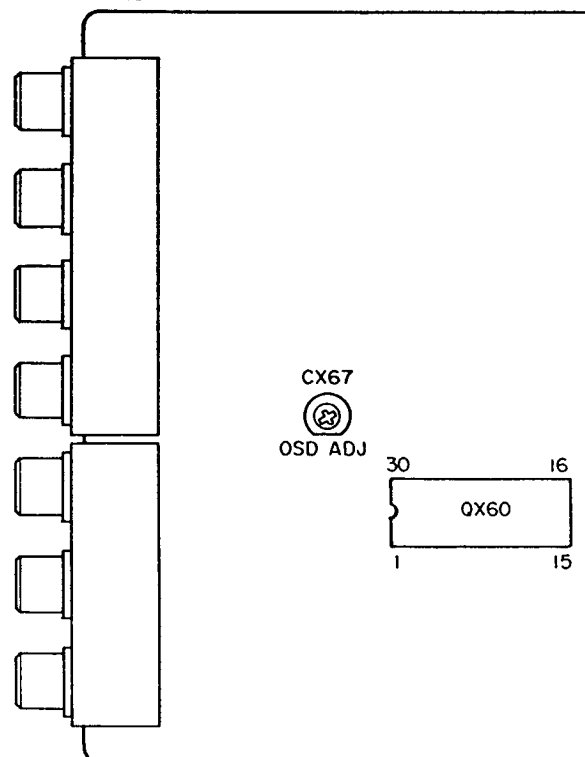
3. Main amp DC offset adjustment

- 1) With the power OFF, connect a digital voltmeter, set for the DC range, to the speaker terminal.
- 2) After the above, adjust the DC offset as follows:
Turn the power ON and adjust RN63 (Lch), RN64 (Rch), RN70 (Center ch) so that the output is ± 20 mV.

TEST POINT



PL04

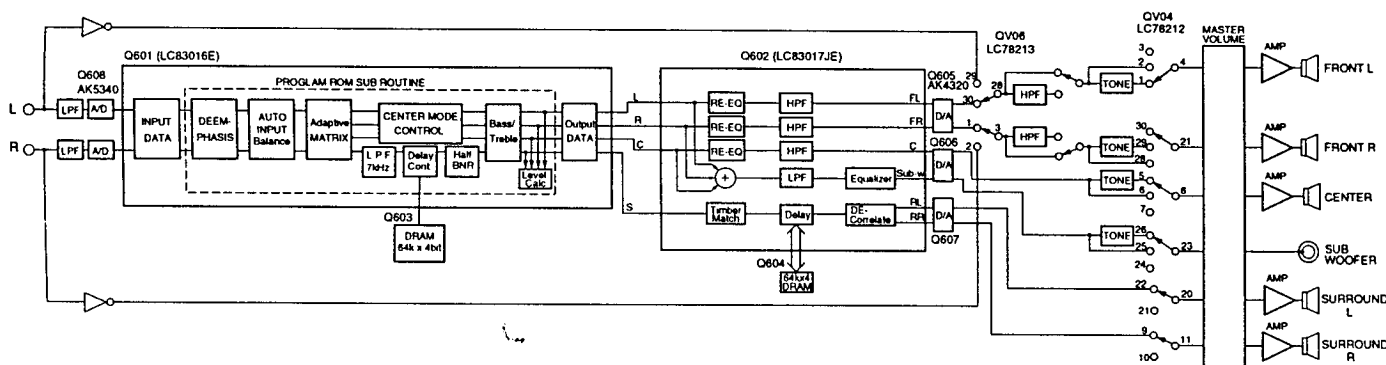


CIRCUIT DESCRIPTION

1. SURROUND CIRCUIT

This model incorporates a surround processor circuit that provides 6 types of the surround sound. Fig. 1-1 is a block diagram of the surround processor circuit.

The microprocessor transfers the data to the parameter control (Serial data, Serial clock, Request Ready) to operate the circuits in each mode.



(Block diagram of the surround processor circuit.)

Fig. 1-1

1) Stereo

Set to this mode to listen to ordinary stereo sound. The rear L/R and center outputs will be muted.

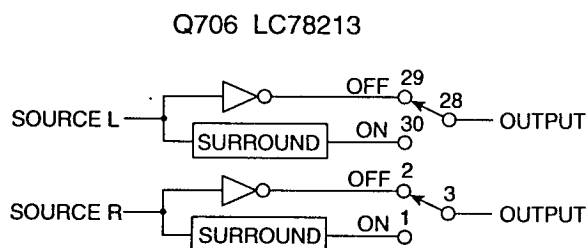


Fig. 1-2

2) THX Cinema

The IC Q602 (LC83017E) is a THX Cinema decoder IC. IC Q602 (LC83017E) divides the 4 channel signals (Left, Right, Center and Surround) sourcing from IC Q601 (LC83016E) into 6 channel signals (Left, Right, Center, Surround Left, Surround Right and Sub Woffe).

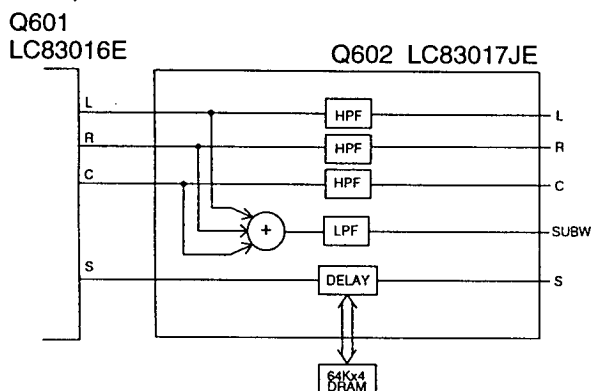


Fig. 1-3

(3) Dolby pro logic

Q601 (LC8316E) is a Dolby pro logic decoder IC. When an audio signal recorded using the Dolby pro logic system is sent to this IC, the left, right, center and surround components are separated. The surround signal component is delayed by the digital delay circuit by 15-30 mS and is sent to the modified B-type decoder Q601 where noise reduction processing is performed.

(4) Movie, 3CH Logic Hall, Matrix

The Movie mode provides the feeling of presence you get from a 35-mm movie in a movie theater. 3CH Logic mode is used to improve the sound field center by applying directivity enhancement provided by the Dolby Pro Logic Surround decoder. Hall mode provide a sound-field effect of medium-sized circular hall with rich reverberations. Matrix mode is effective for playing sports broadcasts or outdoor live concerts. It provides a surround mode with a wide surround effect.

All the connections of the circuits are the same in these modes. Q601, controlled by the microprocessor, processes the audio signals to produce various sound effects and creates surround components to use them as signals to drive the surround channel.

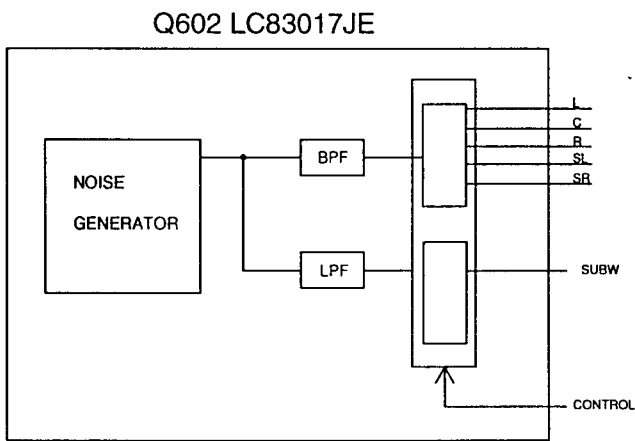
2. CENTER MODE

With Dolby pro logic, three center modes depend on the use of a center speaker as follows.

NORMAL	: Bass frequencies are sent only to the Left and Right Front channels. Select this mode when the Center Speaker is smaller than the Left and Right speakers.
WIDE	: Bass frequencies are sent to the Left, Center and Right speakers. Select this mode when the Center speaker is approximately the same size as the Left and Right speakers.
PHANTOM	: Center channel information is sent to the Left and Right speakers. Select this mode when you do not have a center channel speaker.

3. TEST TONE GENERATOR

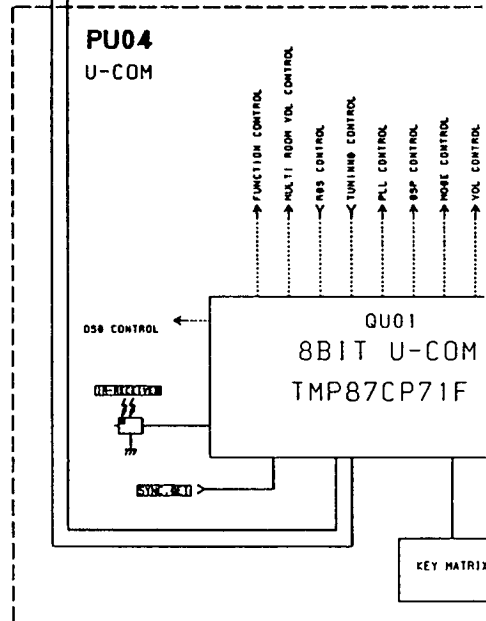
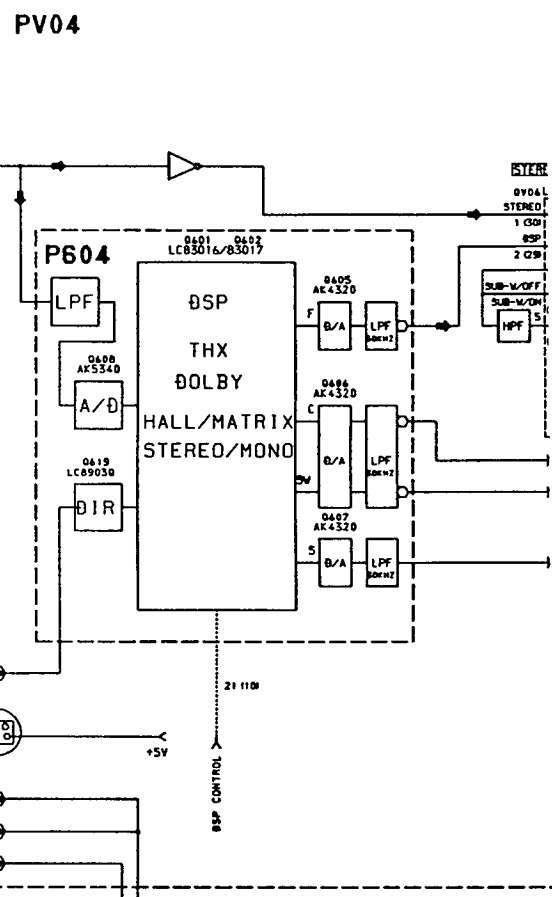
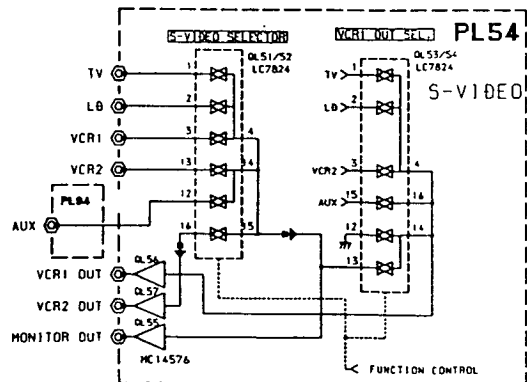
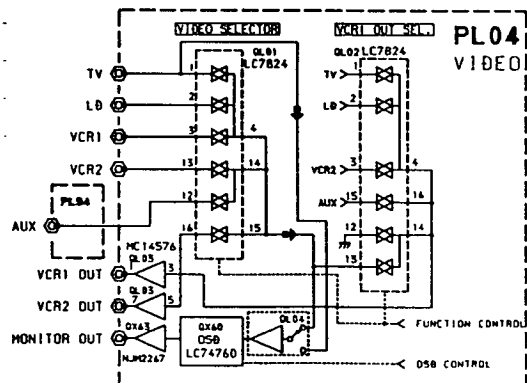
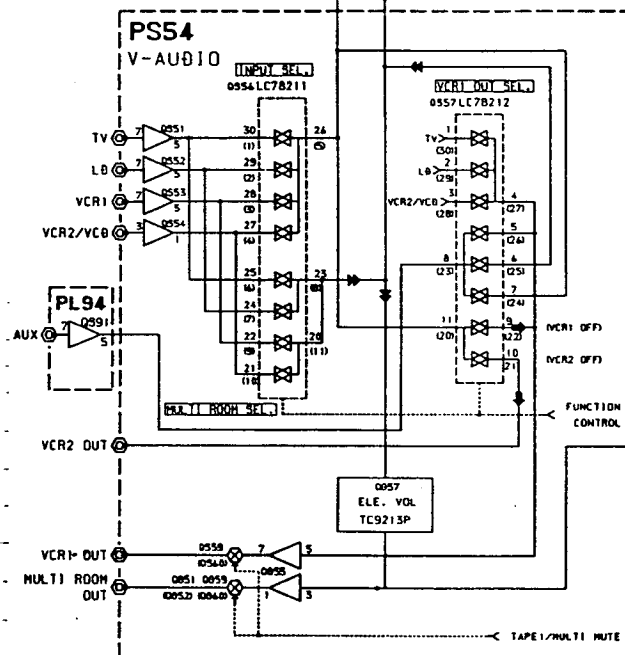
The test tone generator generates a test tone (noise) to check the balance of sound output from each speaker in the THX CINEMA MODE, (This circuit is produced under license of Lucasfilm Ltd.) and the Dolby pro logic mode. (This circuit is produced under license of the Dolby Laboratories Licensing Corp.)

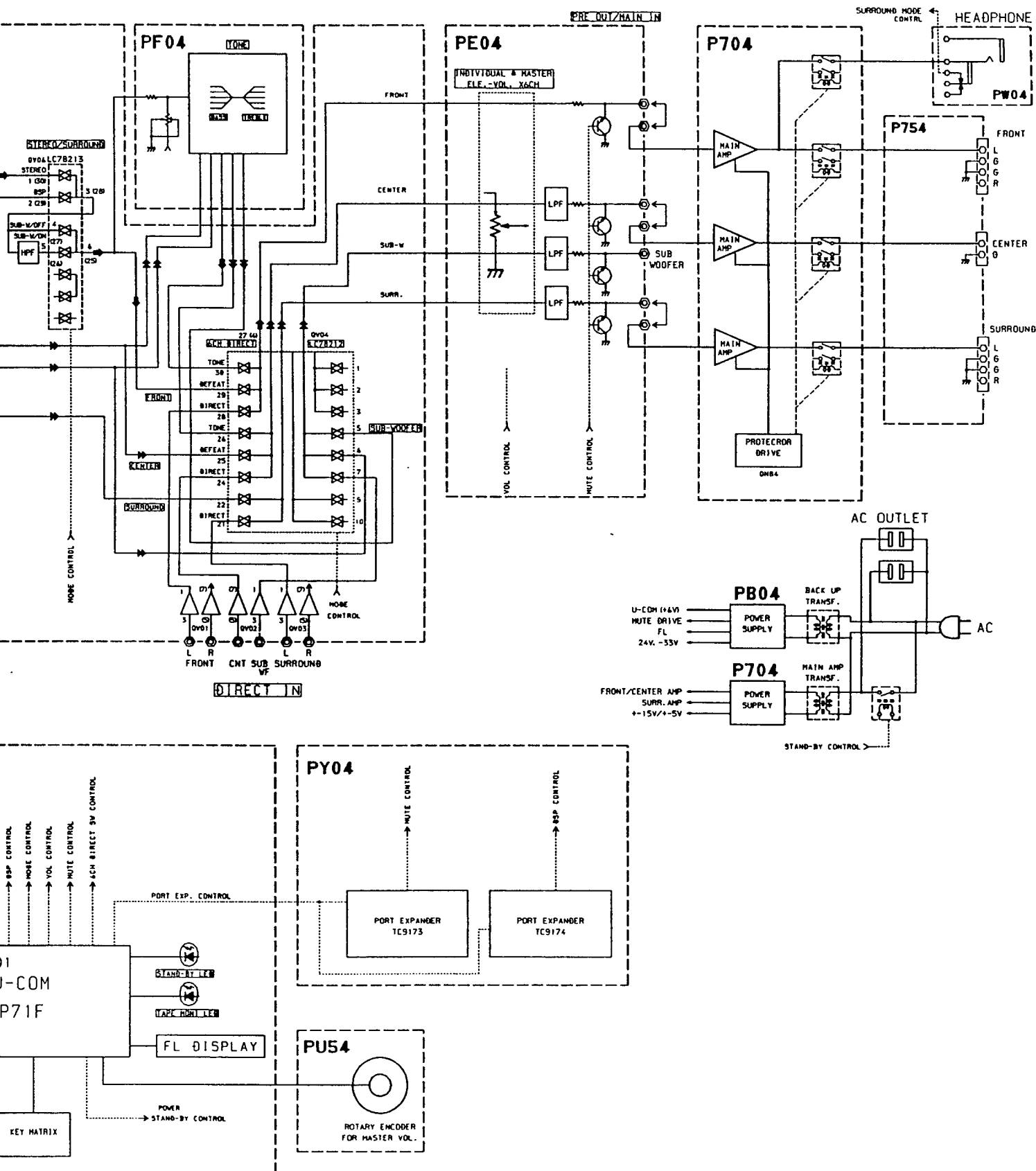


(Flow of noise signals within the system.)
Fig. 3

The schematic diagram for the PS04 AUDIO section is divided into several functional blocks:

- INPUT SEL. (0511 LC78211):** This block contains a 12-pin IC with pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12. It is connected to the TUNER, CB, TAPE 1, TAPE 2, and TAPE 2 OUT signals.
- TAPE OUT SEL. (0512 LC78213):** This block contains a 12-pin IC with pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12. It is connected to the TAPE 1 and TAPE 2 signals.
- MULTI ROOM SEL. (0507, 0505):** This block contains two 5-pin ICs. The 0507 IC is connected to the TAPE 1 OUT signal, and the 0505 IC is connected to the TAPE 1 OUT signal.
- FUNCTION CONTROL:** This block contains a 5-pin IC connected to the TAPE 1 OUT signal.
- TAPE 1 MUTE:** This block contains a 5-pin IC connected to the TAPE 1 OUT signal.
- Other components:** The diagram includes various capacitors (C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100) and resistors (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100).





GENERAL UNIT PARTS LIST

<u>Ref. No.</u>	<u>Part. No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part. No.</u>	<u>Description</u>
001B	260J248210	FRONT PANEL	▲ L001	TS60513020	POWER TRANSF. 230V
005B	260J105010	CHASSIS, FRONT	L002	FC50380010	FERRITE CORE
008B	260J158210	WINDOW			
010B	272J270010	BUTTON, FUNCTION	Y001	YQ01000080	SHORT PLUG
013B	260J270520	BUTTON KIT, POWER	Y002	YQ01000080	SHORT PLUG
014B	260J270050	BUTTON, POWER	Y003	YQ01000080	SHORT PLUG
015B	260J355020	LENS, POWER	Y004	YQ01000080	SHORT PLUG
017B	260J270350	BUTTON, MODE	Y005	YQ01000080	SHORT PLUG
019B	183J271020	HOLDER, FL			
020B	056J122010	STICKER, FL	▲ W001	YC01800790	A.C POWER CORD
021B	4220005040	CLAMPER			
023B	183J010010	SCREW, PHONE PCB			
025B	264J160040	BRACKET, LEFT			
027B	264J160050	BRACKET, RIGHT			
			51100306M0	B. H. M SCREW 5110 ø3x6 (M)	
035B	063J154180	KNOB, MAIN VOL	51100308A0	B. H. M SCREW 5110 ø3x8 (A)	
036B	042J154020	KNOB, TONE VOL	51260308U0	B. T. SCREW (W/W) 5162 ø3x8 (U)	
			51280308B0	B. H. TAP. SCREW 5128 ø3x8 (B)	
001D	264J257110	LID, TOP COVER	51280308M0	B. H. TAP. SCREW 5128 ø3x8 (M)	
			51280308U0	B. H. TAP. SCREW 5128 ø3x8 (U)	
001G	264J105500	CHASSIS ASSEMBLY, MAIN	51280325B0	B. H. TAP. SCREW 5128 ø3x25 (B)	
002G	264J105010	CHASSIS, MAIN	51280410U0	B. H. TAP. SCREW 5128 ø4x10 (U)	
003G	030J114010	STOPPER	51480310A0	F. WASHER SCREW 5148ø3x10(A)	
006G	227J056010	BUFFER	51480315M0	F. WASHER SCREW 5148ø3x15(M)	
007G	183J057010	LEG, FRONT	52040408M0	H. HEAD BOLT 5204 ø4x8 (M)	
008G	183J057110	LEG, REAR			
010G	264J160010	BRACKET, TRANSF.			
013G	260J271010	HOLDER, SUB TRANSF.			
016G	2218271020	HOLDER, PCB			
017G	054J101020	SUPPORT, MAIN PCB			
030G	136J101020	SUPPORT			
035G	140S056040	BUFFER			
900G	260J250020	REAR PANEL	001S	260J801010	PACKING
911G	260J861020	LABEL, SEMCO	002S	260J809010	PACKING CASE
			003S	260J809020	CUSHION, (L)
001L	264J267010	HEATSINK, MAIN	005S	9091111030	CUSHION, (R)
005L	264J160020	BRACKET, HEAT SINK (L)	010S	9510901260	POLYETHY SHEET
009L	264J160030	BRACKET, HEAT SINK (R)			LABEL
013L	261J104010	RETAINER, MAIN PCB	001T	272J851360	USER MANUAL
015L	264J160060	BRACKET, HEATSINK CENTER	007T	9012540010	POLYETHY BAG
017L	090J101010	SUPPORT	009T	256J851010	USER MANUAL, FLY SHEET
020L	287S005010	CLAMPER			
			Z001	ZK272J0010	UNIT KIT, REMOTE
001K	009D267010	HEATSINK	Z002	ZF24302000	BATTERY, UM-4NEPH x 2
002K	009D267010	HEATSINK			
003K	001J267030	HEATSINK			
004K	001J267030	HEATSINK			
005K	309V267010	HEATSINK			
007K	309V267010	HEATSINK			
012K	152J118030	SPACER			
014K	306V259030	BUSHING			
061K	415T101010	SUPPORT			

A

B

C

D

E

PACKING

1

007T

001T

Z001,Z002

2

002S

3

005S

4

003S

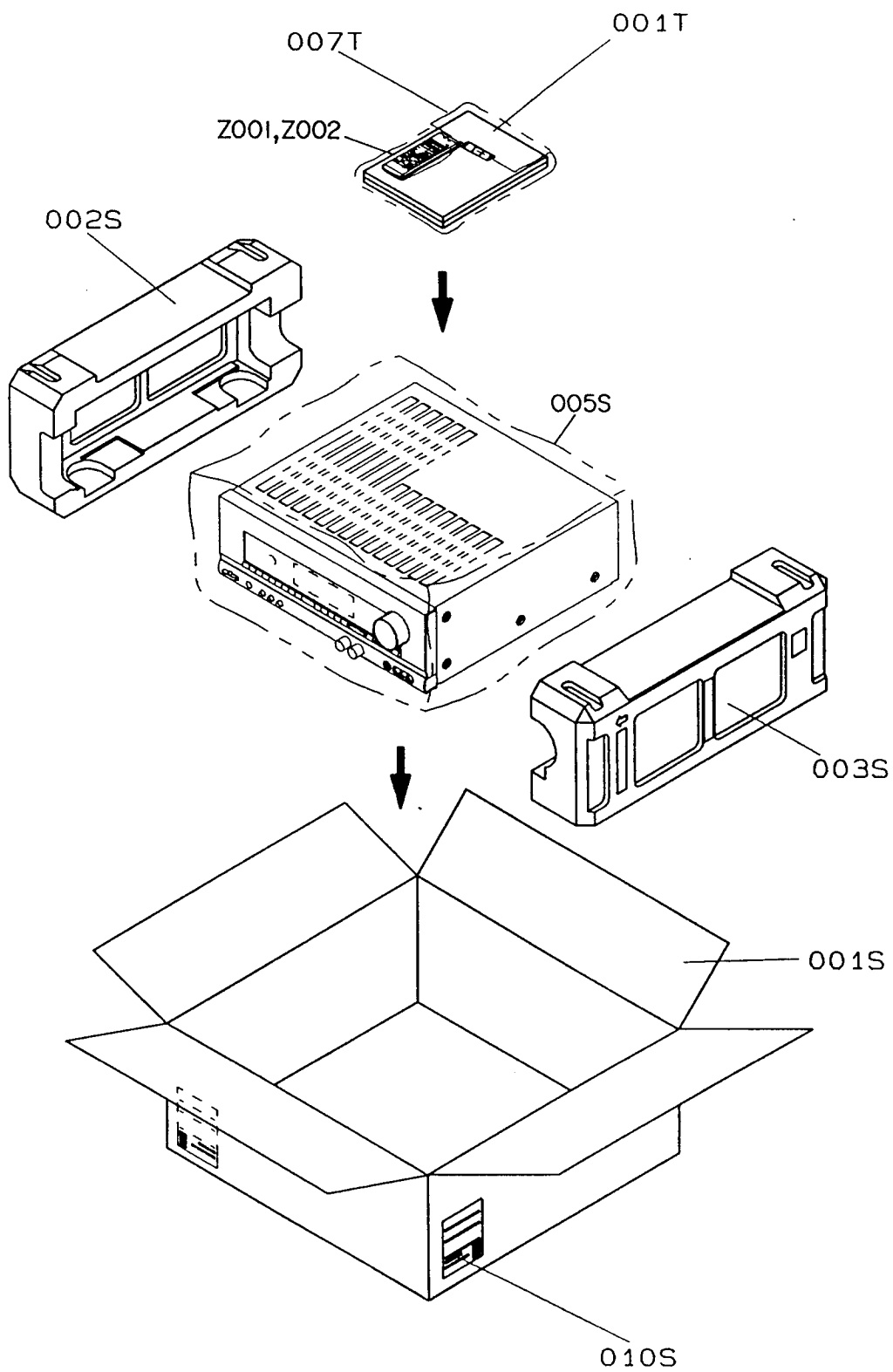
5

001S

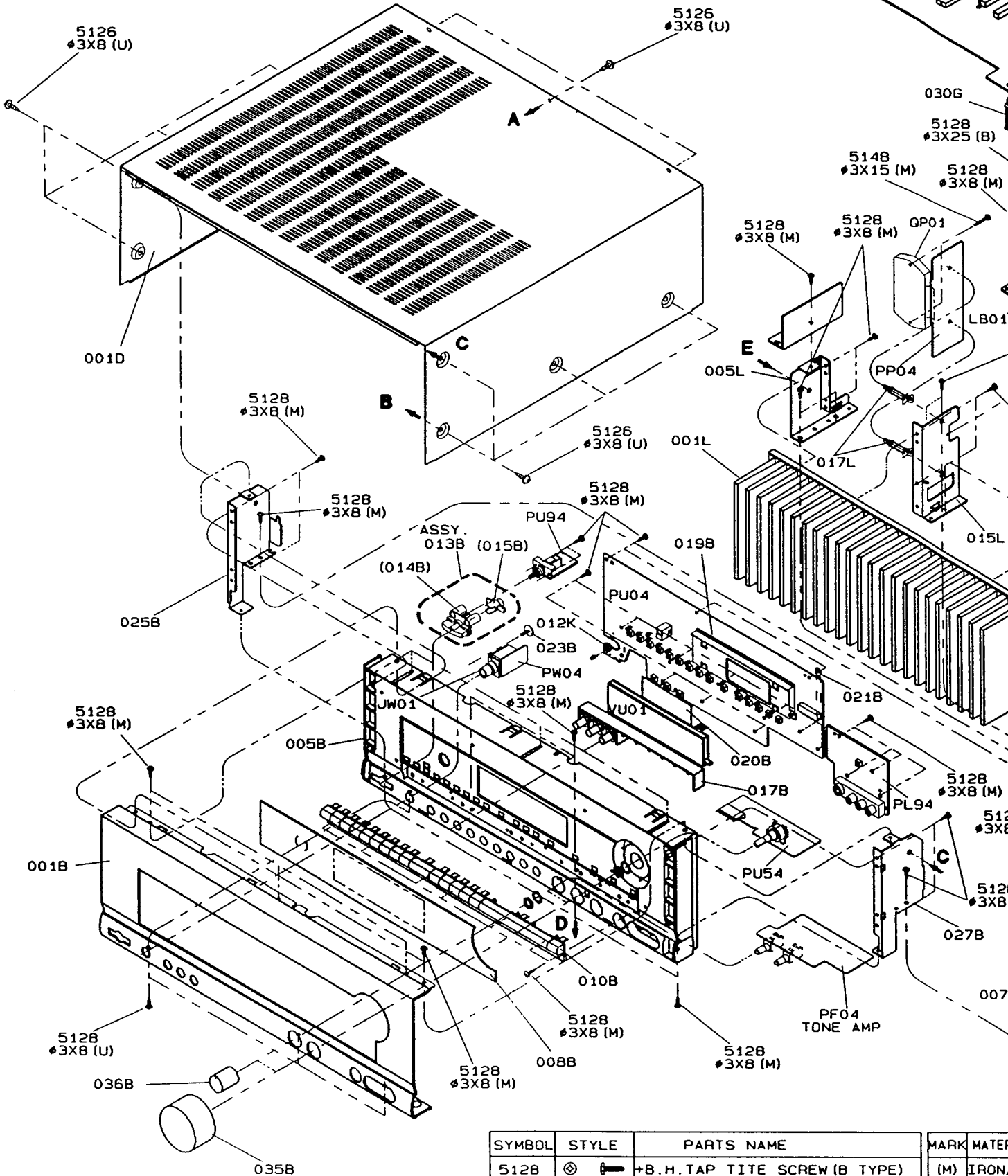
6

010S

7



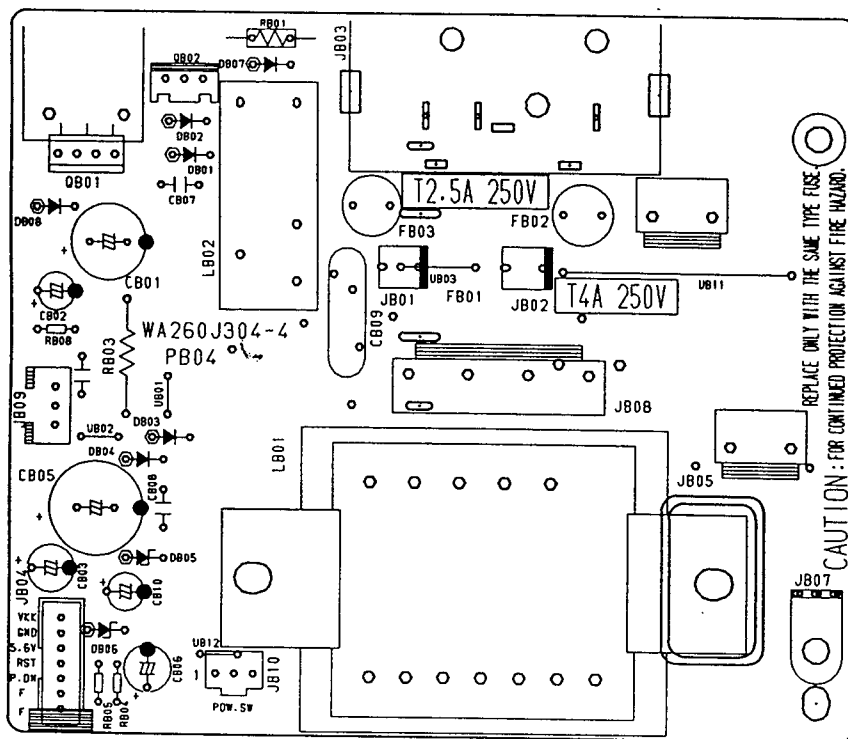
GENERAL UNIT EXPLODED VIEW



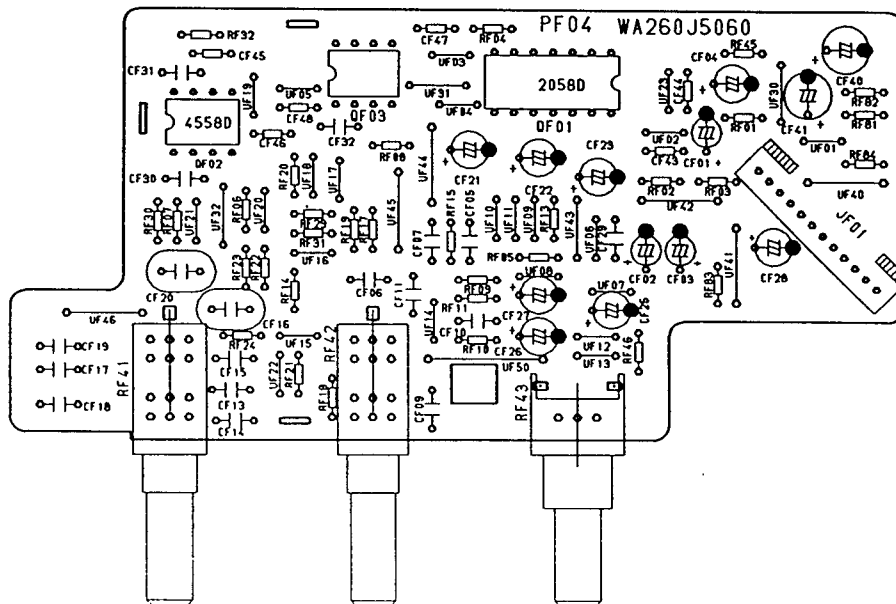
SYMBOL	STYLE	PARTS NAME	MARK	MATERIAL
5128	⊗	+B.H.TAP TITE SCREW (B TYPE)	(M)	IRON.
5126	⊗	+B.H.TAP TITE SCREW W/WASHER	(U)	IRON.
5148	⊗	+B.H.M. SCREW (W/WASHER)	(A)	IRON.
5110	⊗	+B.H.M. SCREW		
5204	⊗	+H.H.TAPT.BOLTS WITH FLANGE (S TITE)		

P.C. BOARDS (1)

PB04-Back-up P.C. Board



PF04-Tone P.C. Board



F

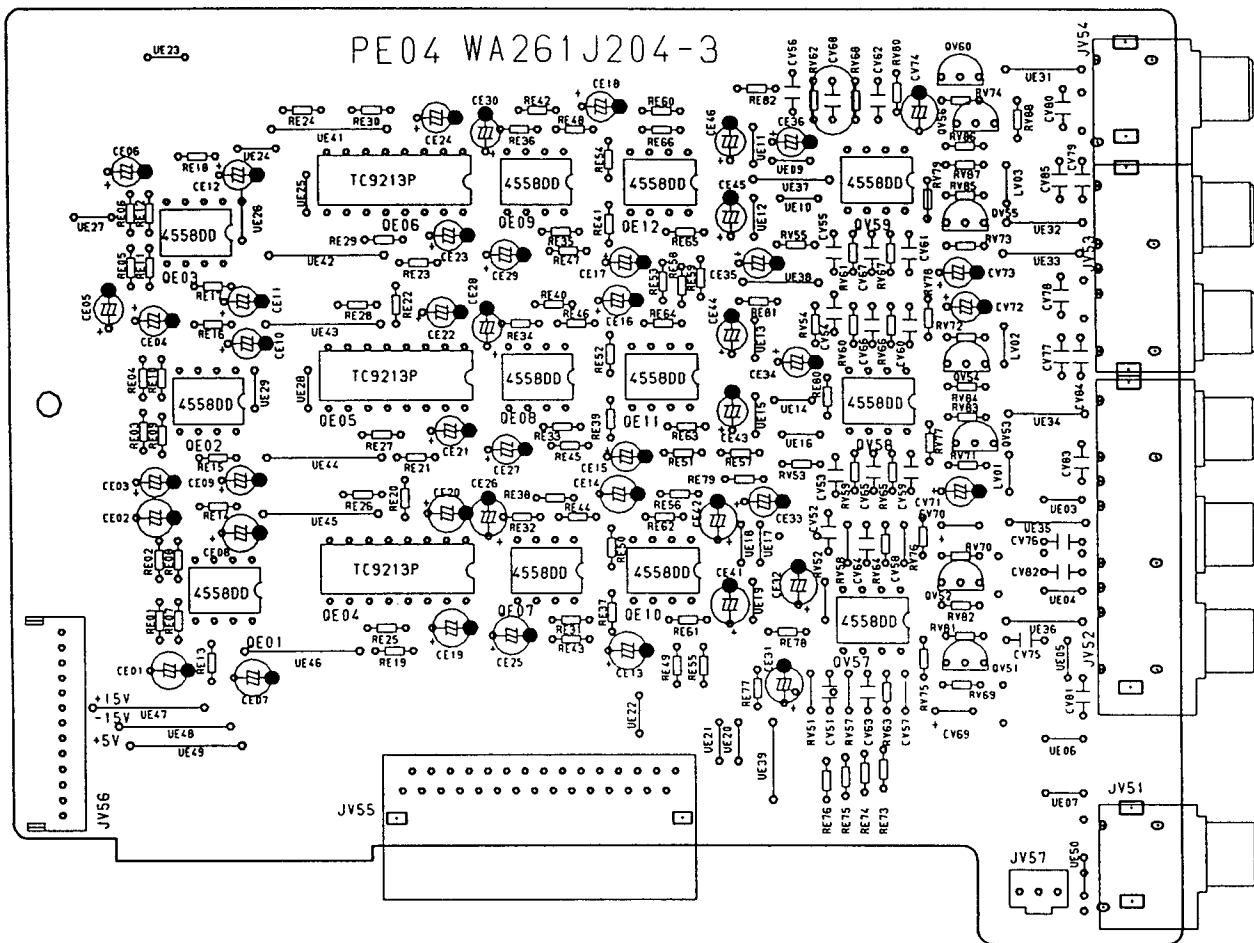
G

H

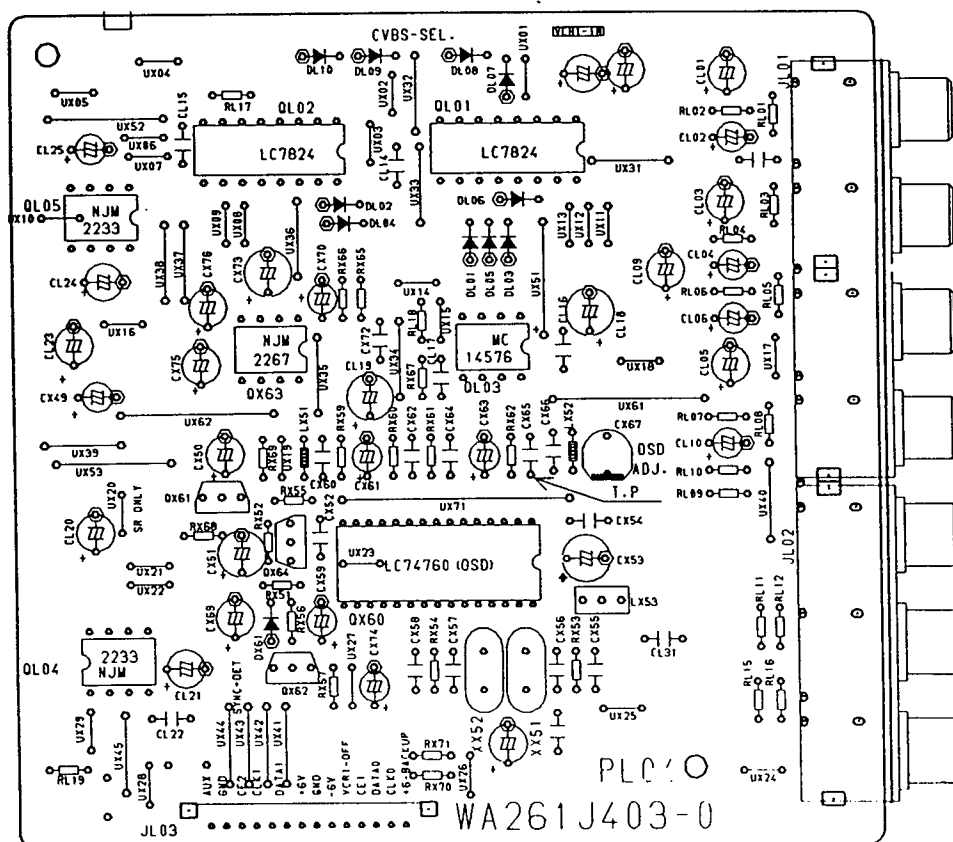
I

J

PE04-Ele. Vol P.C. Board

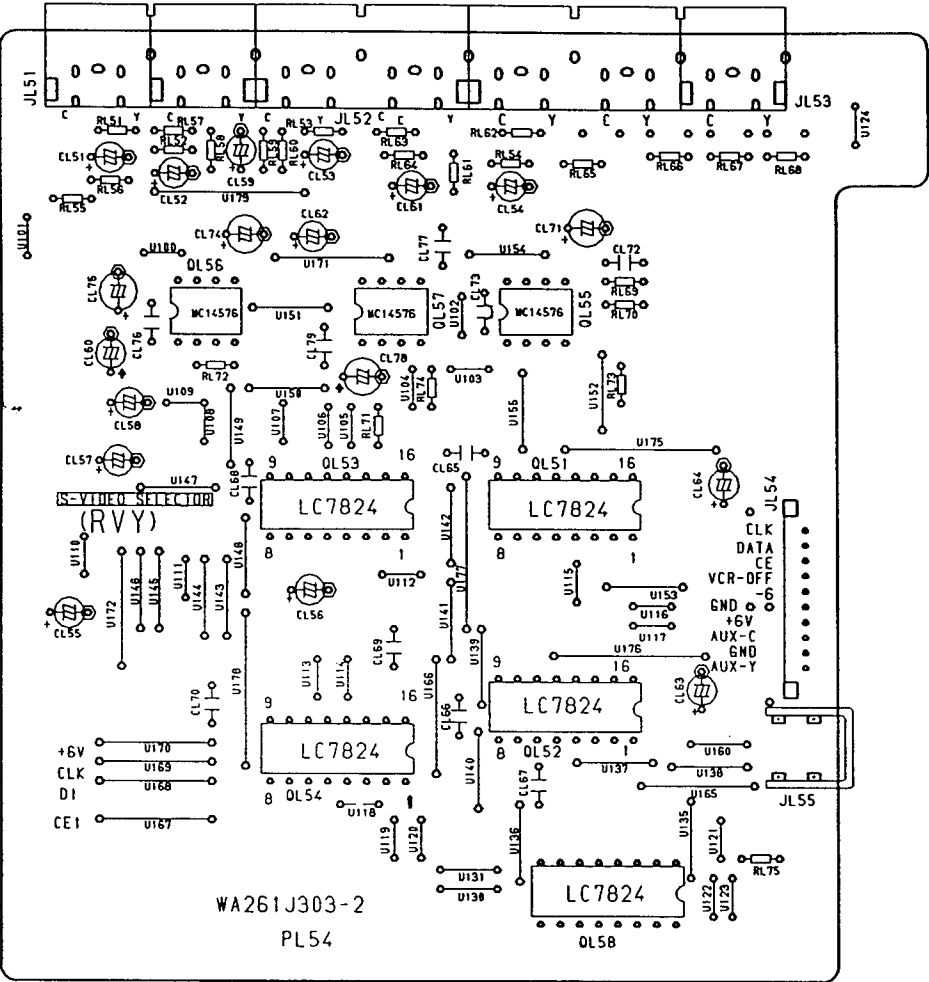


PL04-Video Selector P.C. Board

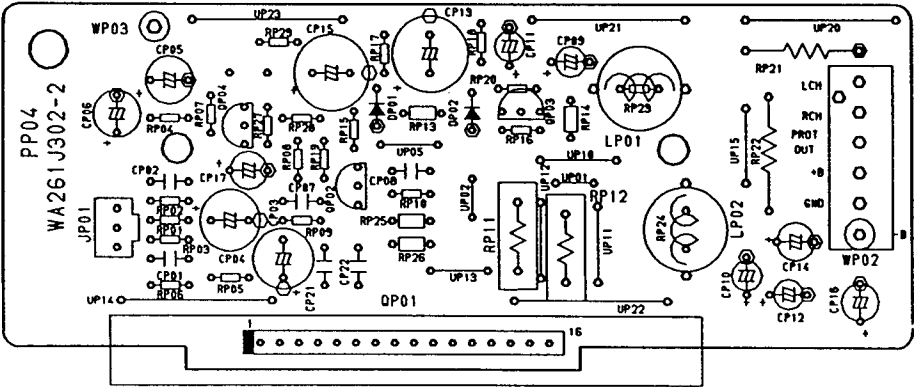


P.C. BOARDS (2)

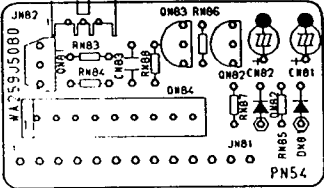
PL54-S-Video P.C. Board

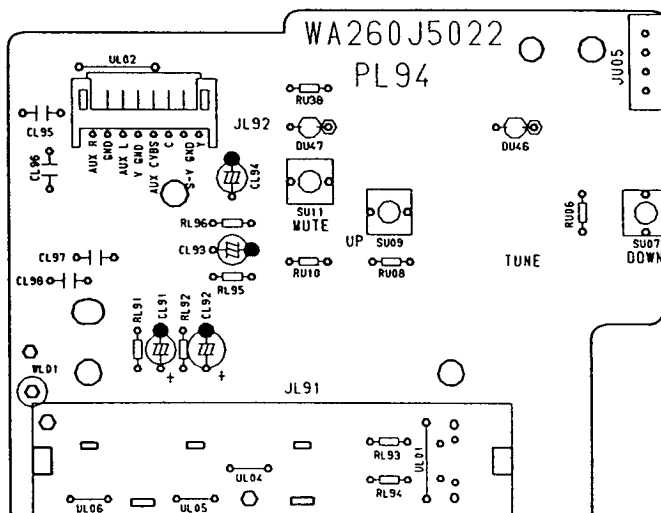
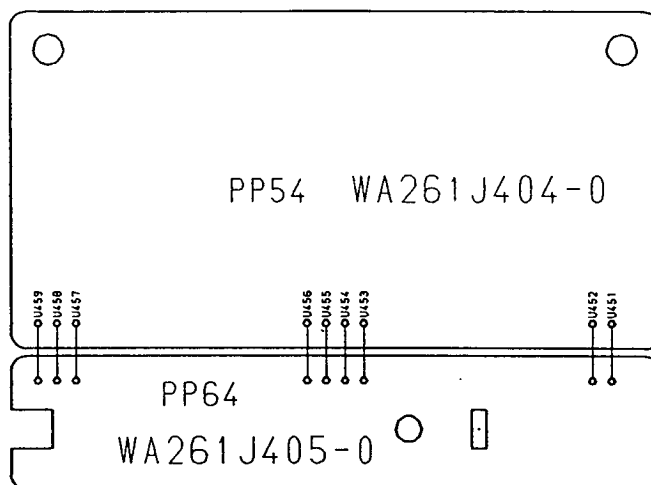
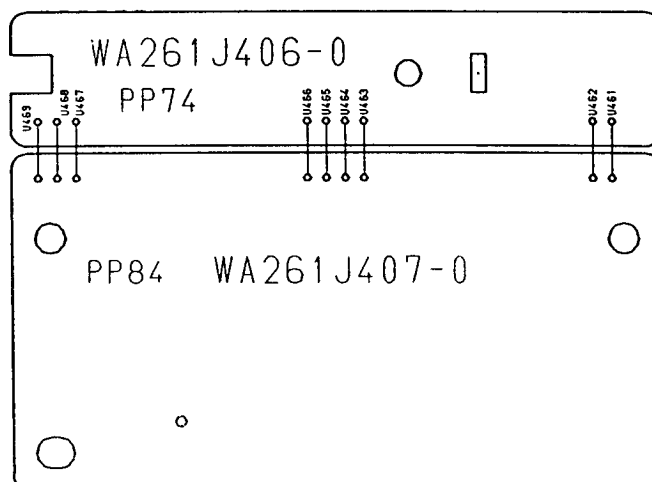


PP04-Surround Amp P.C. Board



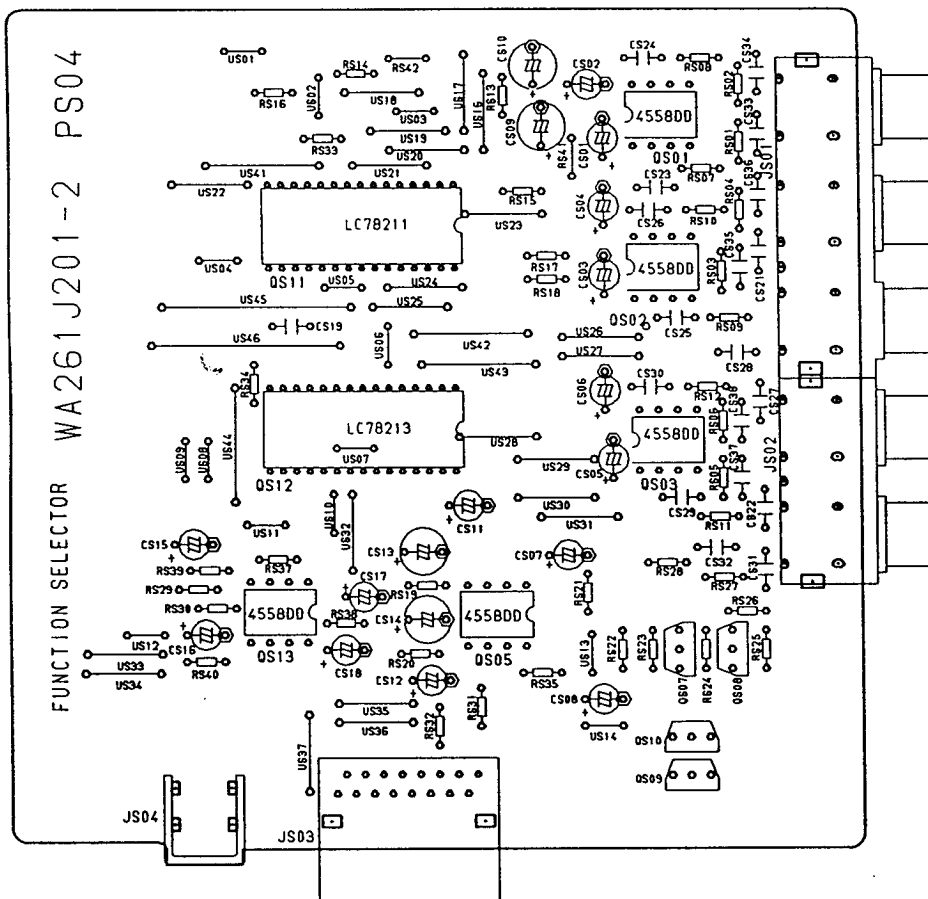
PN54-SPK Protect P.C. Board



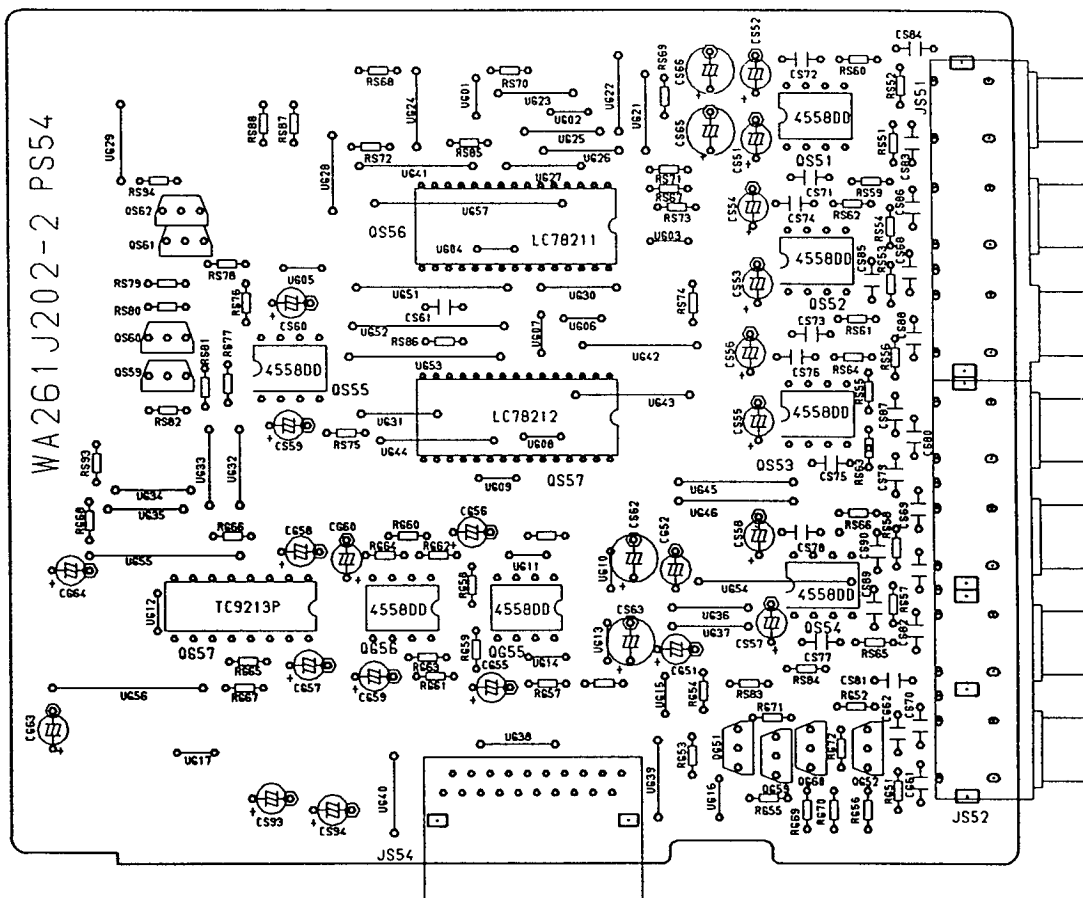
PL94-AUX In P.C. Board**PP54-Wiring P.C. Board****PP64-Wiring P.C. Board****PP74-Wiring P.C. Board****PP84-Wiring P.C. Board**

P.C. BOARD (3)

PS04-Audio Function P.C. Board

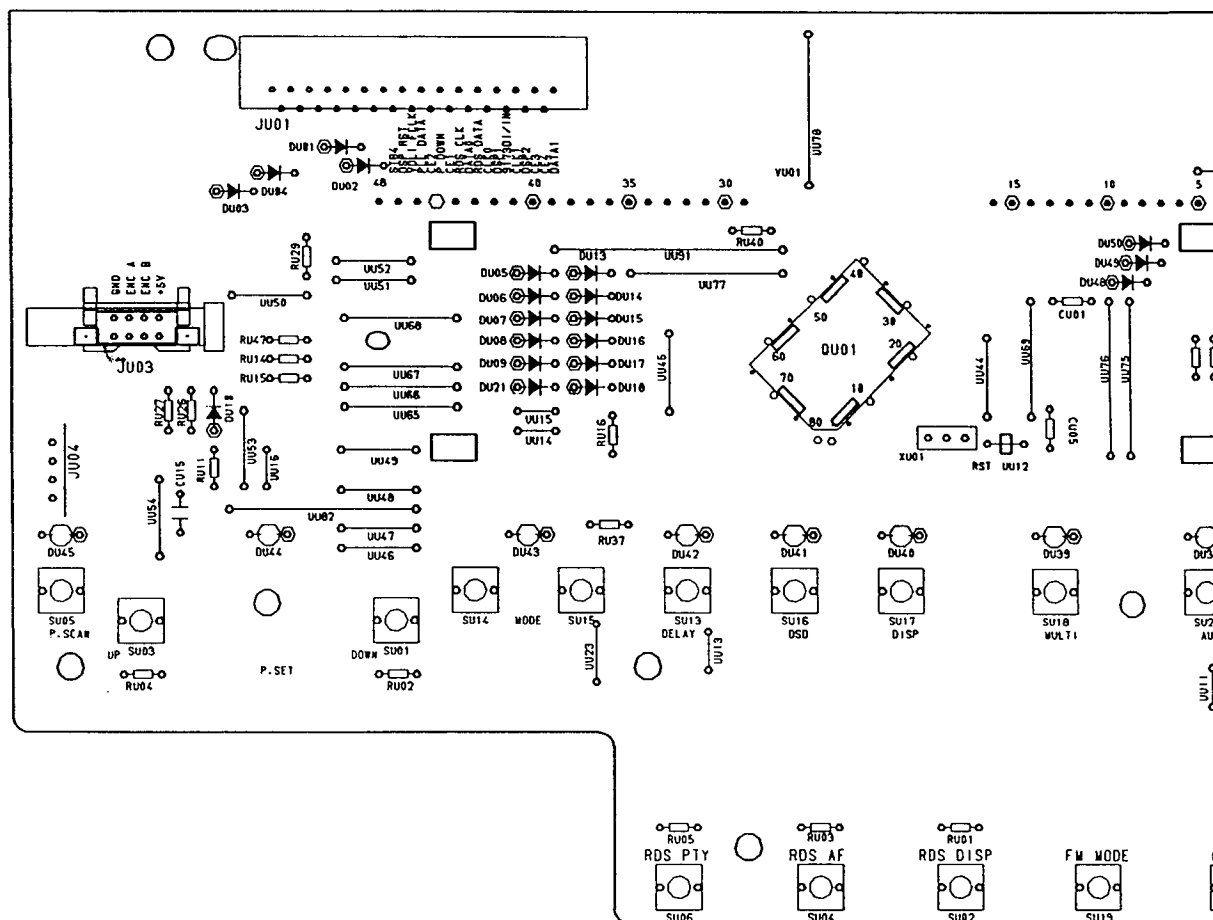


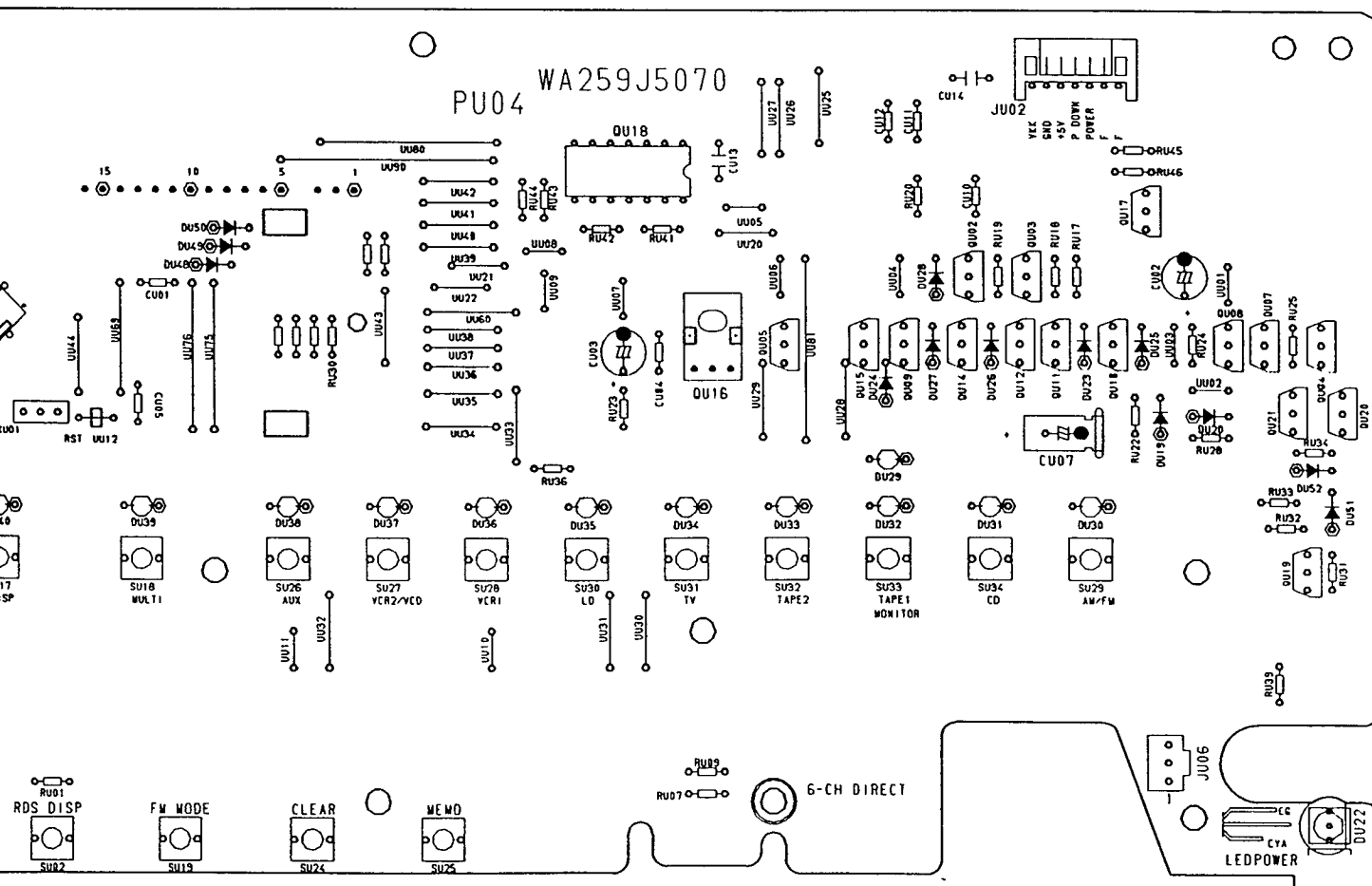
PS54-V-Audio Function P.C. Board



P.C. BOARD (4)

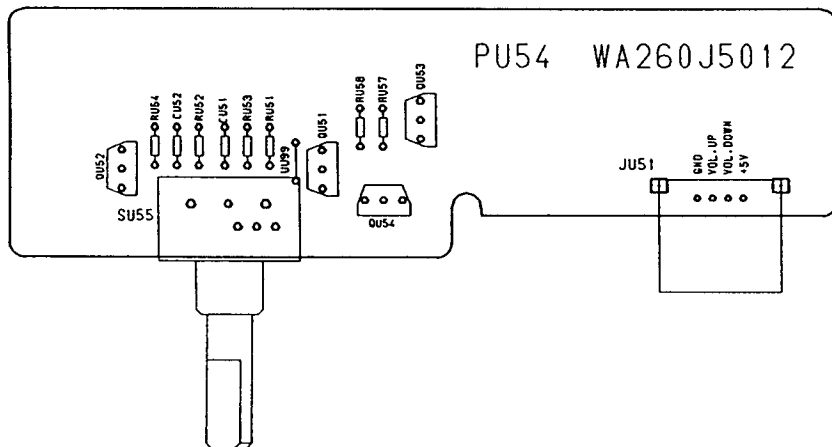
PU04-Front P.C. Board



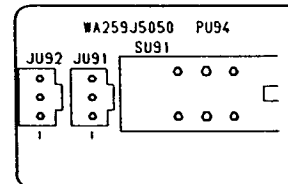


P.C. BOARD (5)

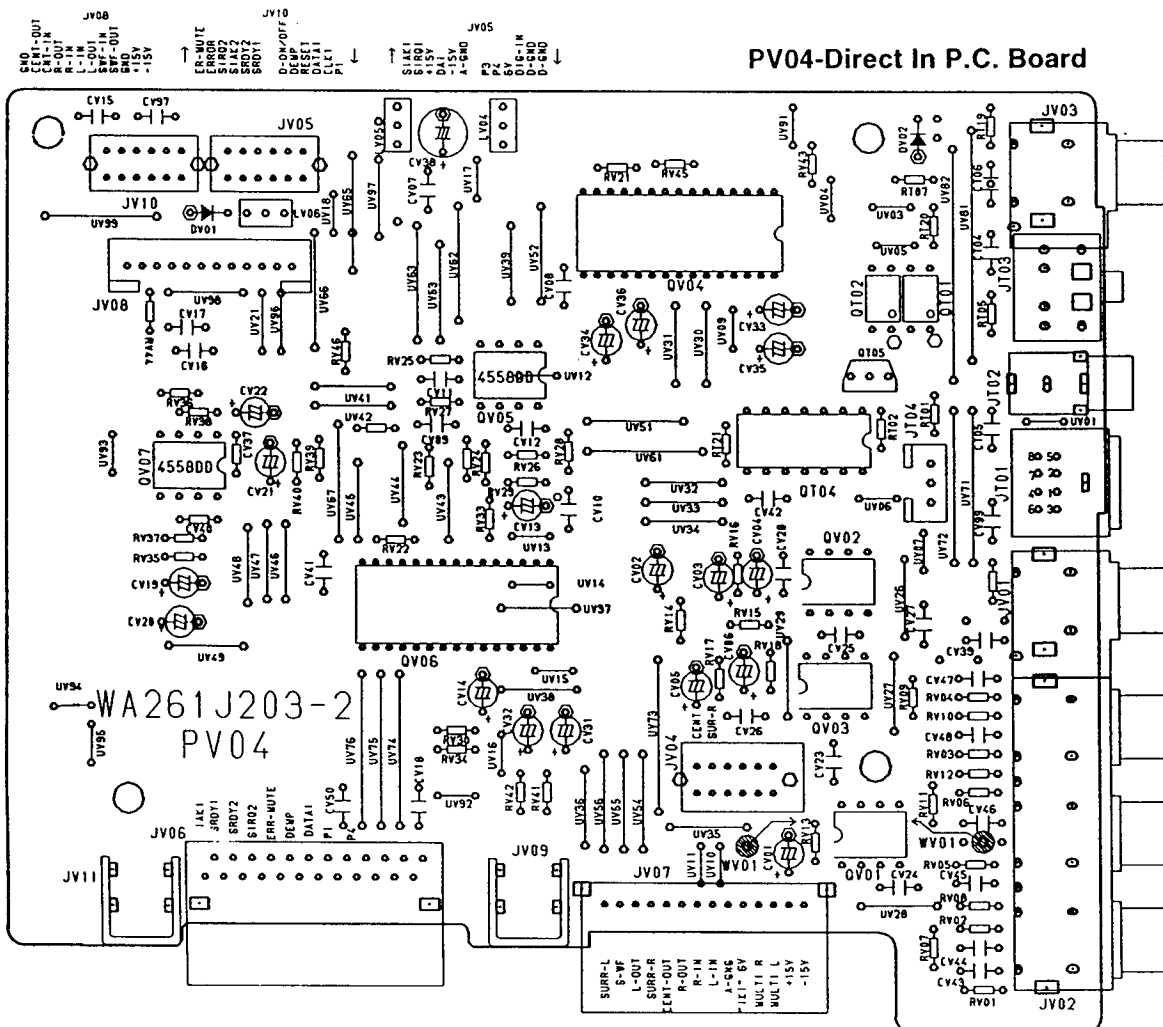
PU54-Master Vol P.C. Board



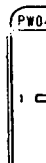
PU94-Power SW P.C.



PV04-Direct In P.C. Board



PW04



F

G

H

I

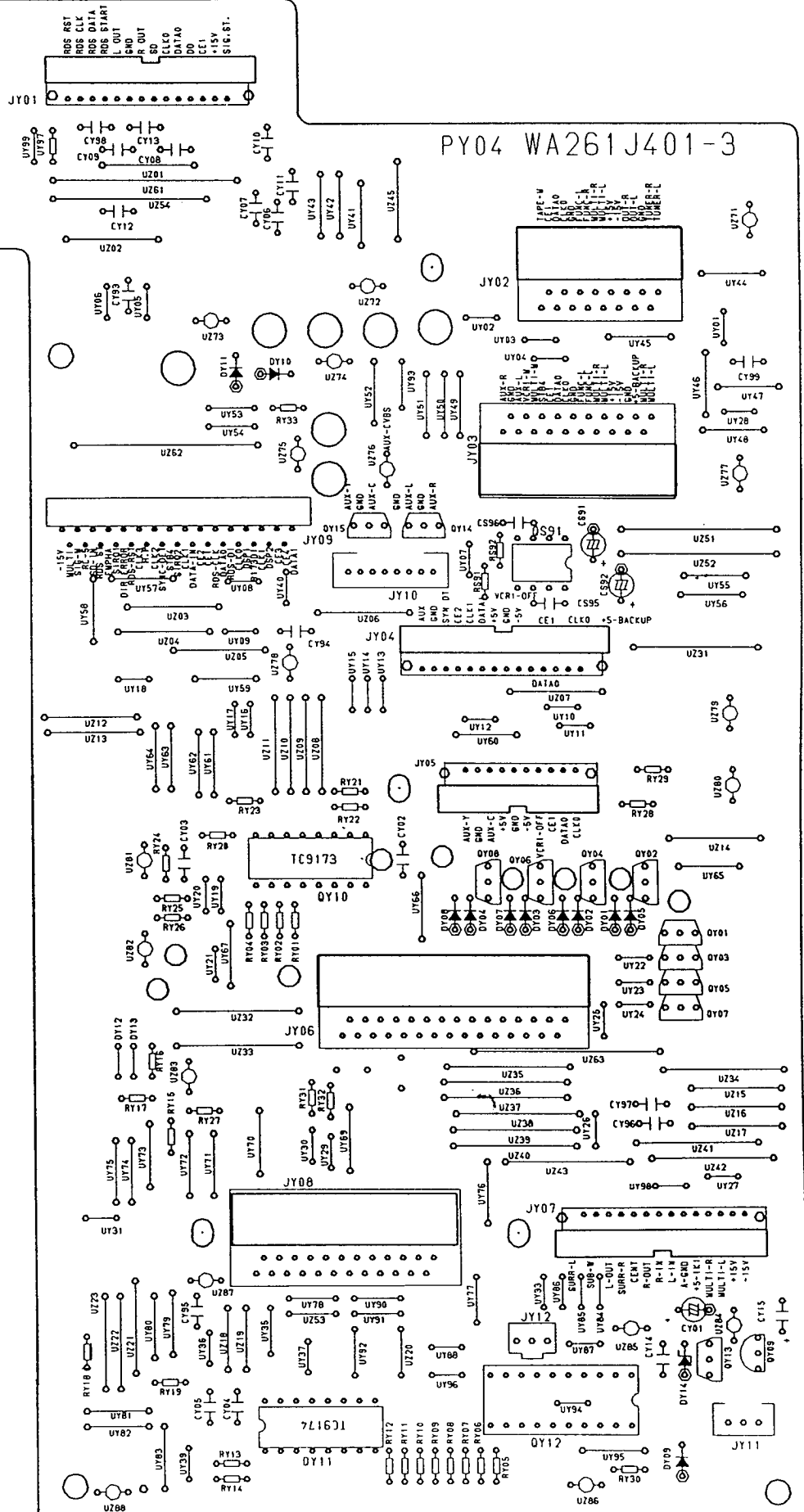
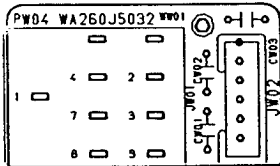
J

PY04-Connect P.C. Board

r SW P.C. Board

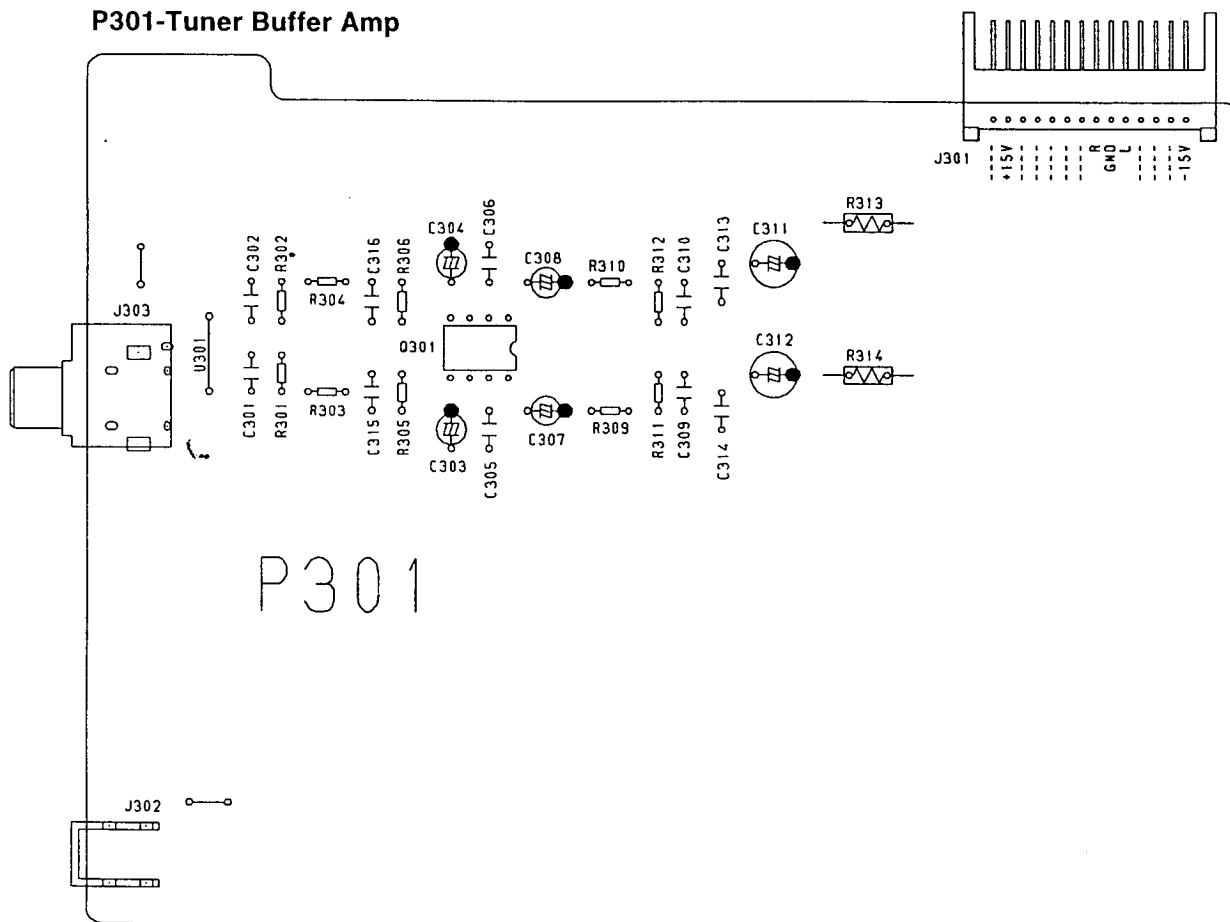
PU94

PW04-H.P. P.C. Board

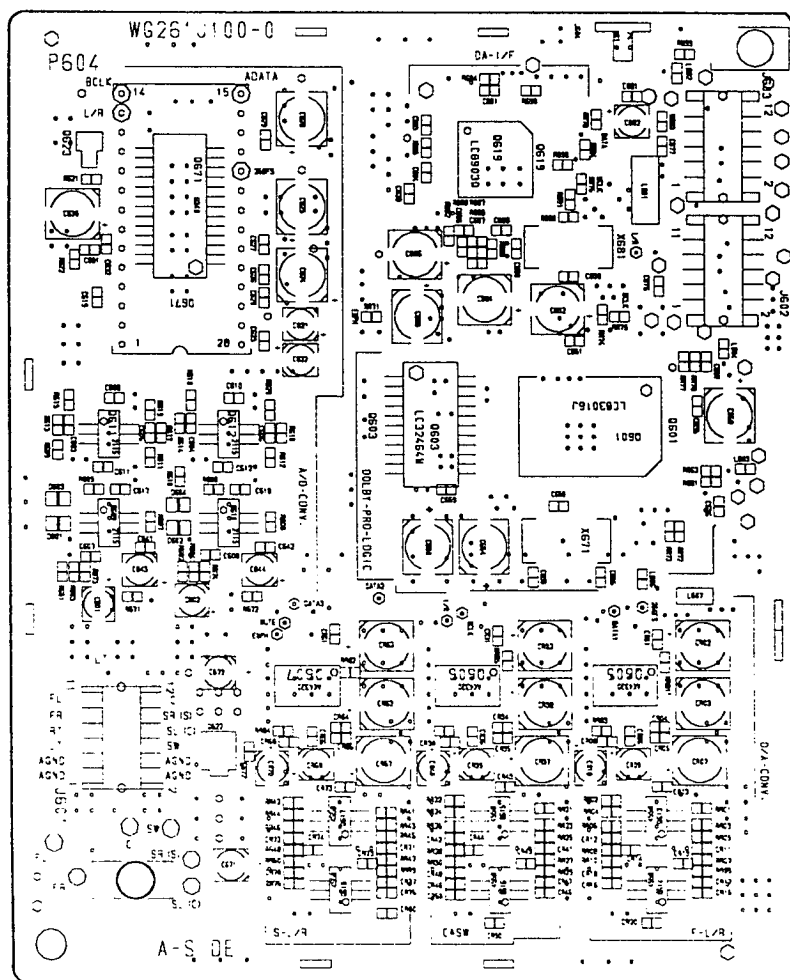


P.C. BOARD (6)

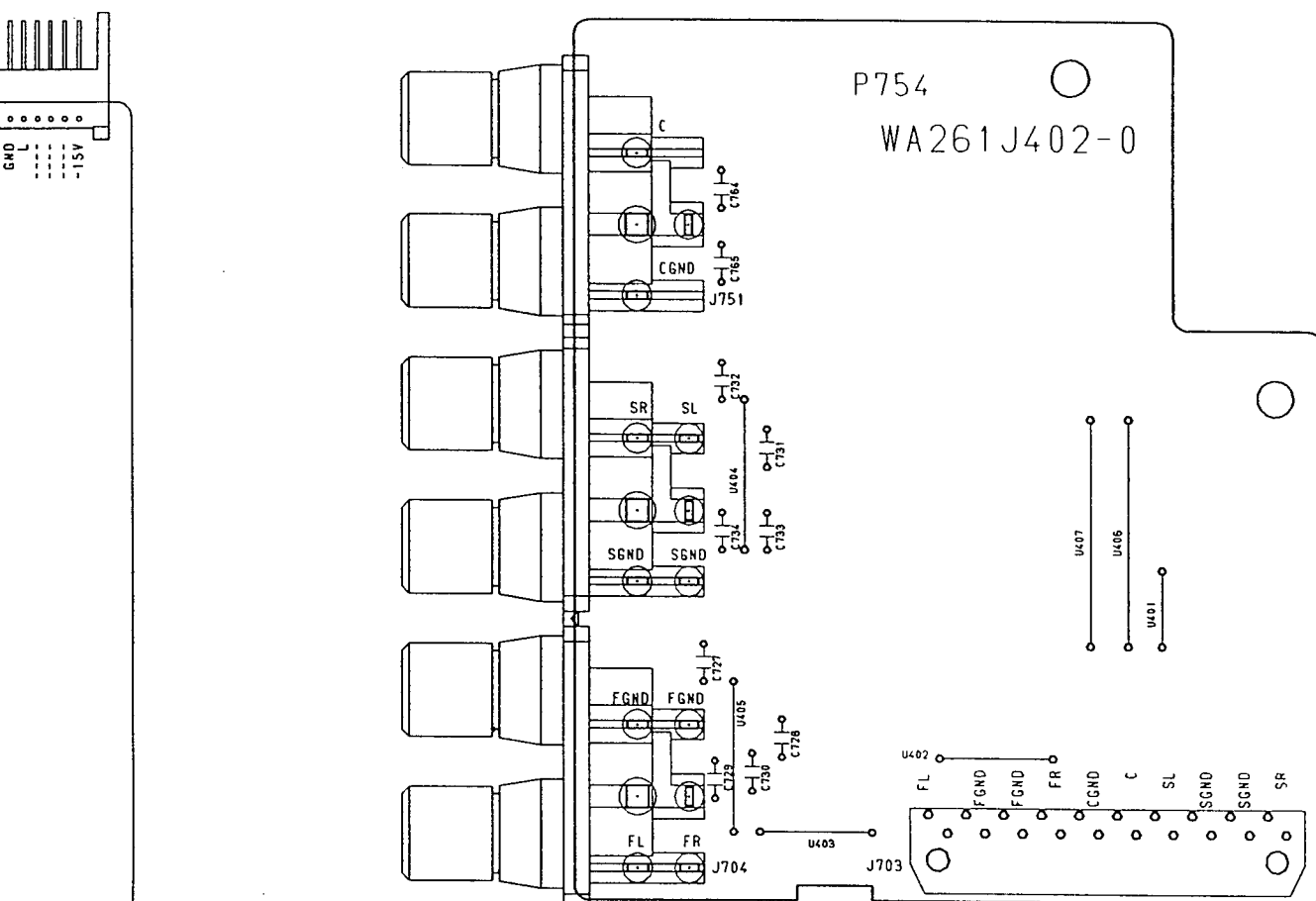
P301-Tuner Buffer Amp



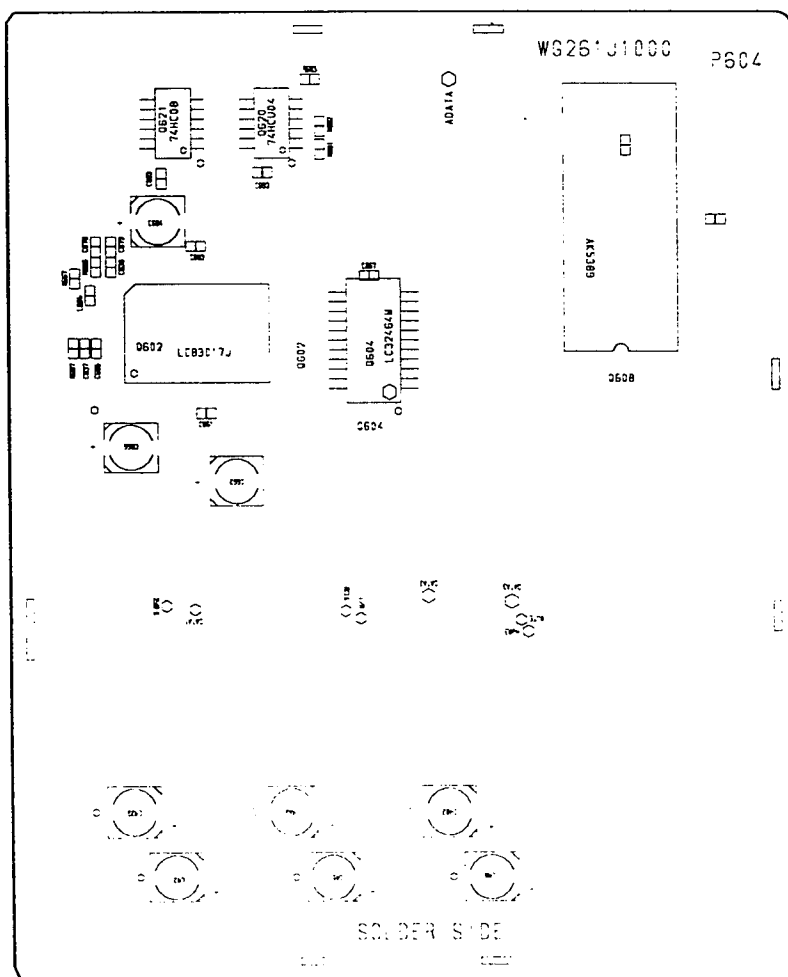
P604-THX Pro-Logic DSP P.C. Board



P754-SPK Terminal P.C. Board

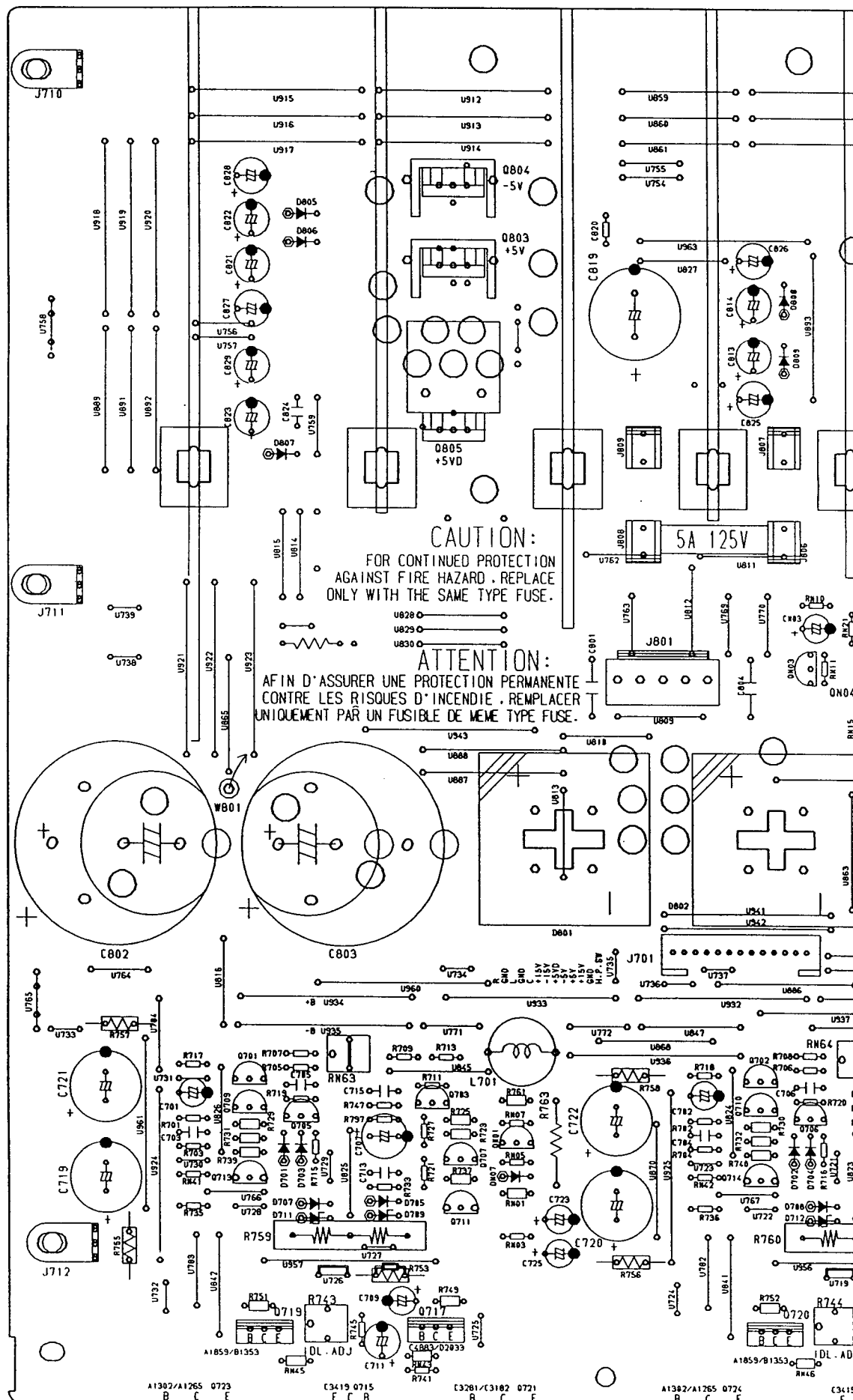


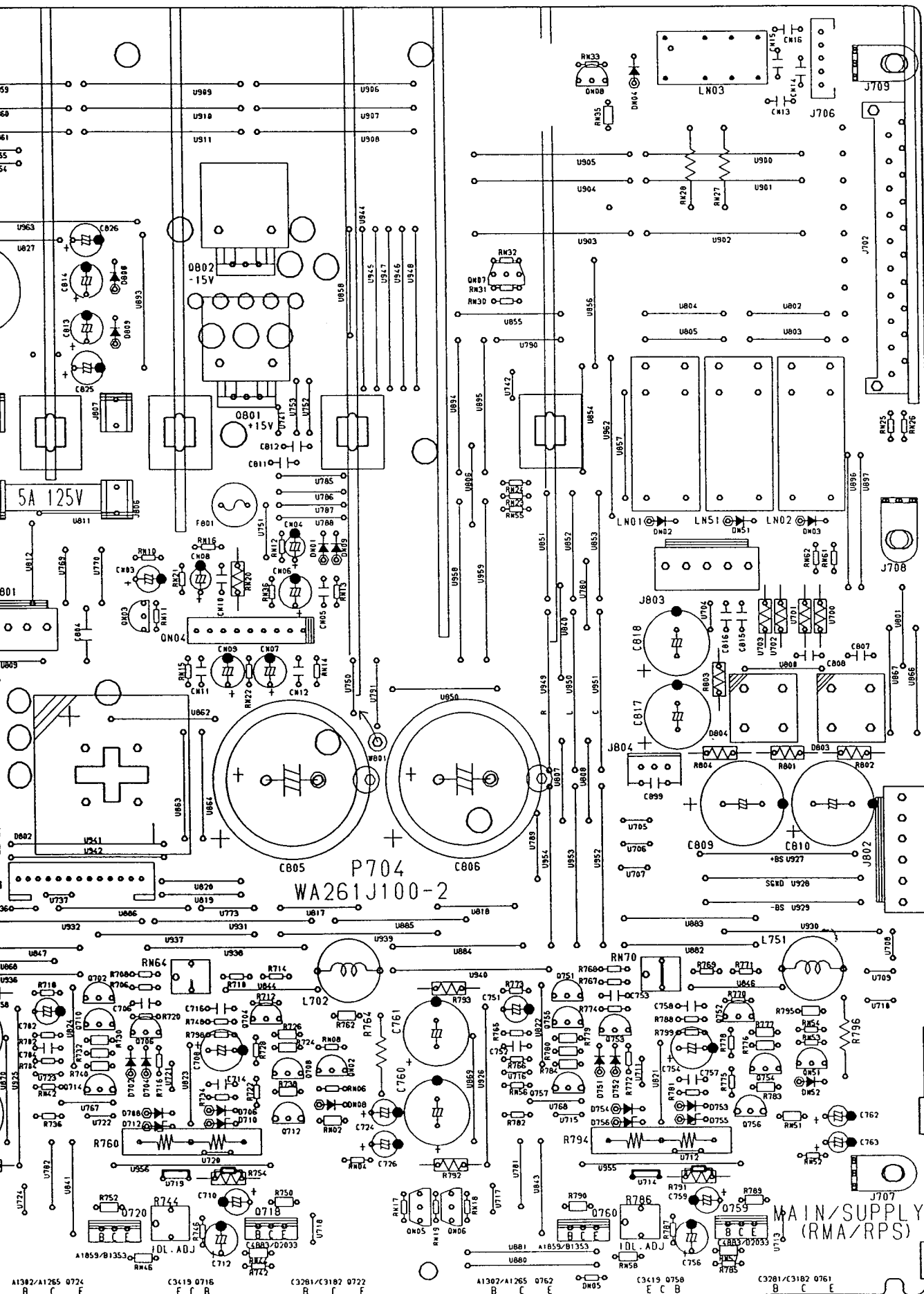
P604-THX Pro-Logic DSP P.C. Board



P.C. BOARD (7)

P704-Main Amp P.C. Board





5A 125V

U802
-15V

U801
+15V

P704
WA261J100-2

MAIN/SUPPLY
(RMA/RPS)

Ref. No.	Part. No.	Description
PB04-BACK-UP P.C. BOARD		
CAPACITORS		
CB01	EA47703510	ELECT 470μF 35
CB02	EA10606310	ELECT 10μF 63V
CB03	EA47603510	ELECT 47μF 35V
CB05	EA47705010	ELECT 470μF 50V
CB06	EA47603510	ELECT 47μF 35V
CB07	DK18103310	CERAMIC 0.01μF +80% -20%
CB08	DK18103310	CERAMIC 0.01μF +80% -20%
▲CB09	DK17103840	CERAMIC 0.01μF ±20%
CB10	EA10606310	ELECT 10μF 63V
RESISTORS		
▲RB01	GG05100140	1/4W 10 Ω ±5%
▲RB03	GA05471010	1W 470 Ω ±5%
RB04	GD05101160	1/6W 100 Ω ±5%
RB05	GD05101160	1/6W 100 Ω ±5%
RB08	GD05103160	1/6W 10K Ω ±5%
INTEGRATED CIRCUIT		
QB01	HC38905320	IC PQ05RR1
TRANSISTOR		
QB02	HT420331E0	2SD2033 (E)
DIODES		
▲DB01	HD20002710	1D3 1A/200V
▲DB02	HD20002710	1D3 1A/200V
▲DB03	HD20002710	1D3 1A/200V
▲DB04	HD20002710	1D3 1A/200V
DB05	HD33301000	ZENER MTZJ33D
DB06	HD30821000	ZENER NTJ8.2C
▲DB07	HD20002710	1D3 1A/200V
▲DB08	HD20002710	1D3 1A/200V
MISCELLANEOUS		
▲FB01	FS10400850	FUSE 4A 250V
▲FB02	FS20250200	FUSE T2.5A 250V
▲FB03	FS20250200	FUSE T2.5A 250V
JB01	YJ08000580	JACK, FUSE CLIP
JB02	YJ08000590	JACK, FUSE CLIP
▲JB03	YJ04002080	JACK, AC OUTLET 2P
JB04	YP06006670	PLUG, 7P
▲JB05	YP04000760	PLUG, 2P
▲JB06	YP04000760	PLUG, 2P
JB07	YL01010240	TERMINAL, GND
JB09	YP06003830	PLUG, 3P
JB10	YP06006930	PLUG, 3P
▲LB01	TS14823240	POWER TRANSF
▲LB02	LY10240240	RELAY, VS24MB-NR

PE04-ELE.VOL P.C. BOARD

CAPACITORS		
CE01	OA10601620	ELECT 10μF 16V
CE02	OA10601620	ELECT 10μF 16V
CE03	EJ10601610	ELECT 10μF 16V
CE04	EJ10601610	ELECT 10μF 16V
CE05	EJ10601610	ELECT 10μF 16V
CE06	EJ10601610	ELECT 10μF 16V
CE07	OA47505020	ELECT 4.7μF 50V
CE08	OA47505020	ELECT 4.7μF 50V
CE09	EJ47502510	ELECT 4.7μF 25V
CE10	EJ47502510	ELECT 4.7μF 25V
CE11	EJ47502510	ELECT 4.7μF 25V

CE12	EJ47502510	ELECT 4.7μF 25V
CE13	OA47505020	ELECT 4.7μF 50V
CE14	OA47505020	ELECT 4.7μF 50V
CE15	EJ47502510	ELECT 4.7μF 25V
CE16	EJ47502510	ELECT 4.7μF 25V
CE17	EJ47502510	ELECT 4.7μF 25V
CE18	EJ47502510	ELECT 4.7μF 25V
CE19	OA47505020	ELECT 4.7μF 50V
CE20	OA47505020	ELECT 4.7μF 50V
CE21	EJ47502510	ELECT 4.7μF 25V
CE22	EJ47502510	ELECT 4.7μF 25V
CE23	EJ47502510	ELECT 4.7μF 25V
CE24	EJ47502510	ELECT 4.7μF 25V
CE25	OA47505020	ELECT 4.7μF 50V
CE26	OA47505020	ELECT 4.7μF 50V
CE27	EJ47502510	ELECT 4.7μF 25V
CE28	EJ47502510	ELECT 4.7μF 25V
CE29	EJ47502510	ELECT 4.7μF 25V
CE30	EJ47502510	ELECT 4.7μF 25V
CE31	OA10601620	ELECT 10μF 16V
CE32	OA10601620	ELECT 10μF 16V
CE33	EJ47502510	ELECT 4.7μF 25V
CE34	EJ47502510	ELECT 4.7μF 25V
CE35	EJ47502510	ELECT 4.7μF 25V
CE36	EJ10601610	ELECT 10μF 16V
CE41	OA10601620	ELECT 10μF 16V
CE42	OA10601620	ELECT 10μF 16V
CE43	EJ10601610	ELECT 10μF 16V
CE44	EJ10601610	ELECT 10μF 16V
CE45	EJ10601610	ELECT 10μF 16V
CE46	EJ10601610	ELECT 10μF 16V
CV53	DF15182350	FILM 1800PF ±5%
CV54	DF15182350	FILM 1800PF ±5%
CV55	DF15182350	FILM 1800PF ±5%
CV59	DF15472350	FILM 4700PF ±5%
CV60	DF15472350	FILM 4700PF ±5%
CV61	DF15472350	FILM 4700PF ±5%
CV62	DF15104350	FILM 0.1μF ±5%
CV65	DK16271300	CERAMIC 270PF ±10%
CV66	DK16271300	CERAMIC 270PF ±10%
CV67	DK16271300	CERAMIC 270PF ±10%
CV68	DF15473310	FILM 0.047μF ±5%
CV71	EJ10601610	ELECT 10μF 16V
CV72	EJ10601610	ELECT 10μF 16V
CV73	EJ10601610	ELECT 10μF 16V
CV74	EJ22601610	ELECT 22μF 16V
CV75	DK16471300	CERAMIC 470PF ±10%
CV76	DK16471300	CERAMIC 470PF ±10%
CV77	DK16221300	CERAMIC 220PF ±10%
CV78	DK16221300	CERAMIC 220PF ±10%
CV79	DK16221300	CERAMIC 220PF ±10%
CV80	DK16102300	CERAMIC 1000PF ±10%
CV81	DK16221300	CERAMIC 220PF ±10%
CV82	DK16221300	CERAMIC 220PF ±10%
CV83	DK16221300	CERAMIC 220PF ±10%
CV84	DK16221300	CERAMIC 220PF ±10%
CV85	DK16471300	CERAMIC 470PF ±10%

RESISTORS		
RE01	GD05104160	1/6W 100K Ω ±5%
RE02	GD05104160	1/6W 100K Ω ±5%
RE03	GD05104160	1/6W 100K Ω ±5%
RE04	GD05104160	1/6W 100K Ω ±5%
RE05	GD05104160	1/6W 100K Ω ±5%
RE06	GD05104160	1/6W 100K Ω ±5%
RE07	GD05332160	1/6W 3.3K Ω ±5%
RE08	GD05332160	1/6W 3.3K Ω ±5%
RE09	GD05332160	1/6W 3.3K Ω ±5%
RE10	GD05332160	1/6W 3.3K Ω ±5%

<u>Ref. No.</u>	<u>Part. No.</u>	<u>Description</u>			
RE11	GD05332160	1/6W	3.3K Ω	$\pm 5\%$	
RE12	GD05332160	1/6W	3.3K Ω	$\pm 5\%$	
RE13	GD05222160	1/6W	2.2K Ω	$\pm 5\%$	
RE14	GD05222160	1/6W	2.2K Ω	$\pm 5\%$	
RE15	GD05222160	1/6W	2.2K Ω	$\pm 5\%$	
RE16	GD05222160	1/6W	2.2K Ω	$\pm 5\%$	
RE17	GD05222160	1/6W	2.2K Ω	$\pm 5\%$	
RE18	GD05222160	1/6W	2.2K Ω	$\pm 5\%$	
RE19	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE20	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE21	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE22	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE23	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE24	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE25	GD05331160	1/6W	330 Ω	$\pm 5\%$	
RE26	GD05331160	1/6W	330 Ω	$\pm 5\%$	
RE27	GD05331160	1/6W	330 Ω	$\pm 5\%$	
RE28	GD05331160	1/6W	330 Ω	$\pm 5\%$	
RE29	GD05331160	1/6W	330 Ω	$\pm 5\%$	
RE30	GD05331160	1/6W	330 Ω	$\pm 5\%$	
RE31	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE32	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE33	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE34	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE35	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE36	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE37	GD05334160	1/6W	330K Ω	$\pm 5\%$	
RE38	GD05334160	1/6W	330K Ω	$\pm 5\%$	
RE39	GD05334160	1/6W	330K Ω	$\pm 5\%$	
RE40	GD05334160	1/6W	330K Ω	$\pm 5\%$	
RE41	GD05334160	1/6W	330K Ω	$\pm 5\%$	
RE42	GD05334160	1/6W	330K Ω	$\pm 5\%$	
RE43	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE44	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE45	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE46	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE47	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE48	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE49	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE50	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE51	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE52	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE53	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE54	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE55	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE56	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE57	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE58	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE59	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE60	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE61	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE62	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE63	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE64	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE65	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE66	GD05152160	1/6W	1.5K Ω	$\pm 5\%$	
RE73	GD05105160	1/6W	1M Ω	$\pm 5\%$	
RE74	GD05105160	1/6W	1M Ω	$\pm 5\%$	
RE75	GD05105160	1/6W	1M Ω	$\pm 5\%$	
RE76	GD05105160	1/6W	1M Ω	$\pm 5\%$	
RE79	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE80	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE81	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RE82	GD05104160	1/6W	100K Ω	$\pm 5\%$	
RV53	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	
RV54	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	
RV55	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	
RV59	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	

<u>Ref. No.</u>	<u>Part. No.</u>	<u>Description</u>			
RV60	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	
RV61	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	
RV62	GD05273160	1/6W	27K Ω	$\pm 5\%$	
RV65	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	
RV66	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	
RV67	GD05392160	1/6W	3.9K Ω	$\pm 5\%$	
RV68	GD05273160	1/6W	27K Ω	$\pm 5\%$	
RV69	GD05471160	1/6W	470 Ω	$\pm 5\%$	
RV70	GD05471160	1/6W	470 Ω	$\pm 5\%$	
RV71	GD05471160	1/6W	470 Ω	$\pm 5\%$	
RV72	GD05471160	1/6W	470 Ω	$\pm 5\%$	
RV73	GD05471160	1/6W	470 Ω	$\pm 5\%$	
RV74	GD05221160	1/6W	220 Ω	$\pm 5\%$	
RV75	GD05473160	1/6W	47K Ω	$\pm 5\%$	
RV76	GD05473160	1/6W	47K Ω	$\pm 5\%$	
RV77	GD05473160	1/6W	47K Ω	$\pm 5\%$	
RV78	GD05473160	1/6W	47K Ω	$\pm 5\%$	
RV79	GD05473160	1/6W	47K Ω	$\pm 5\%$	
RV80	GD05473160	1/6W	47K Ω	$\pm 5\%$	
RV81	GD05103160	1/6W	10K Ω	$\pm 5\%$	
RV82	GD05103160	1/6W	10K Ω	$\pm 5\%$	
RV83	GD05103160	1/6W	10K Ω	$\pm 5\%$	
RV84	GD05103160	1/6W	10K Ω	$\pm 5\%$	
RV85	GD05103160	1/6W	10K Ω	$\pm 5\%$	
RV86	GD05103160	1/6W	10K Ω	$\pm 5\%$	
RV87	GD05103160	1/6W	10K Ω	$\pm 5\%$	
RV88	GD05271160	1/6W	270 Ω	$\pm 5\%$	

INTEGRATED CIRCUIT

QE01	HC10008090	IC	NJM4558DD
QE02	HC10008090	IC	NJM4558DD
QE03	HC10008090	IC	NJM4558DD
QE04	HC10304050	IC	TC9213P
QE05	HC10304050	IC	TC9213P
QE06	HC10304050	IC	TC9213P
QE07	HC10008090	IC	NJM4558DD
QE08	HC10008090	IC	NJM4558DD
QE09	HC10008090	IC	NJM4558DD
QE10	HC10008090	IC	NJM4558DD
QE11	HC10008090	IC	NJM4558DD
QE12	HC10008090	IC	NJM4558DD

QV58	HC10008090	IC	NJM4558DD
QV59	HC10008090	IC	NJM4558DD

TRANSISTORS

QV51	HT328782A0	2SC2878 (A, B)
QV52	HT328782A0	2SC2878 (A, B)
QV53	HT328782A0	2SC2878 (A, B)
QV54	HT328782A0	2SC2878 (A, B)
QV55	HT328782A0	2SC2878 (A, B)
QV56	HT328782A0	2SC2878 (A, B)
QV60	HT328782A0	2SC2878 (A, B)

COILS

LV01	LC14733800	CHOKE 47 μ H
LV02	LC14733800	CHOKE 47 μ H
LV03	LC14733800	CHOKE 47 μ H

MISCELLANEOUS

JV52	YT02060540	TERMINAL, 6P RCA PIN JACK
JV53	YT02041160	TERMINAL, 4P RCA PIN JACK
JV54	YT02011020	TERMINAL, 1P RCA PIN JACK
JV55	YJ06030600	JACK, 30P
JV56	YP06004570	PLUG, 13P
JV57	YP06006930	PLUG, 3P

Ref. No.	Part. No.	Description	Ref. No.	Part. No.	Description
PF04-TONE P.C. BOARD					
CAPACITORS					
CF01	EJ10601610	ELECT 10μF 16V	RF46	GD05102160	1/6W 1K Ω ±5%
CF02	EJ10601610	ELECT 10μF 16V	RF81	GD05473160	1/6W 47K Ω ±5%
CF03	EJ10601610	ELECT 10μF 16V	RF82	GD05473160	1/6W 47K Ω ±5%
CF04	OA47601620	ELECT 47μF 16V	RF83	GD05473160	1/6W 47K Ω ±5%
CF05	DK16222300	CERAMIC 2200PF ±10%	RF84	GD05473160	1/6W 47K Ω ±5%
CF06	DK16222300	CERAMIC 2200PF ±10%	CONTROLS		
CF07	DK16222300	CERAMIC 2200PF ±10%	RF41	RG01040140	VARIABLE, 100K Ω (B) x 4
CF09	DD15101300	CERAMIC 100PF ±5%	RF42	RG01040140	VARIABLE, 100K Ω (B) x 4
CF10	DD15101300	CERAMIC 100PF ±5%	INTEGRATED CIRCUIT		
CF11	DD15101300	CERAMIC 100PF ±5%	QF01	HC10031090	IC NJM2058D
CF13	DF15153350	FILM 0.015μF ±5%	QF02	HC10008090	IC NJM4558DD
CF14	DF15153350	FILM 0.015μF ±5%	QF03	HC10008090	IC NJM4558DD
CF15	DF15153350	FILM 0.015μF ±5%	MISCELLANEOUS		
CF16	DF15473310	FILM 0.047μF ±5%	JF01	YP06006720	PLUG, 11P
CF17	DF15153350	FILM 0.015μF ±5%	PL04-VIDEO SELECTOR P.C. BOARD		
CF18	DF15153350	FILM 0.015μF ±5%	CAPACITORS		
CF19	DF15153350	FILM 0.015μF ±5%	CL01	EJ22601010	ELECT 22μF 10V
CF20	DF15473310	FILM 0.047μF ±5%	CL02	EJ10601610	ELECT 10μF 16V
CF21	OA47601620	ELECT 47μF 16V	CL03	EJ22601010	ELECT 22μF 10V
CF22	OA47601620	ELECT 47μF 16V	CL04	EJ10601610	ELECT 10μF 16V
CF23	OA47601620	ELECT 47μF 16V	CL05	EJ22601010	ELECT 22μF 10V
CF25	OA22601620	ELECT 22μF 16V	CL06	EJ10601610	ELECT 10μF 16V
CF26	OA22601620	ELECT 22μF 16V	CL09	EJ22601010	ELECT 22μF 10V
CF27	OA22601620	ELECT 22μF 16V	CL10	EJ10601610	ELECT 10μF 16V
CF28	OA22601620	ELECT 22μF 16V	CL14	DD38104010	CERAMIC 0.1μF +80% -20%
CF29	DD15470300	CERAMIC 47PF ±5%	CL15	DD38104010	CERAMIC 0.1μF +80% -20%
CF30	DD15470300	CERAMIC 47PF ±5%	CL16	DK18103310	CERAMIC 0.01μF +80% -20%
CF31	DD15470300	CERAMIC 47PF ±5%	CL17	DK18103310	CERAMIC 0.01μF +80% -20%
CF32	DD15470300	CERAMIC 47PF ±5%	CL18	EA22700610	ELECT 220μF 6.3V
CF40	OA10701620	ELECT 100μF 16V	CL19	EA22700610	ELECT 220μF 6.3V
CF41	OA10701620	ELECT 100μF 16V	CL20	EJ22601010	ELECT 22μF 10V
CF43	DA17223110	CERAMIC 0.022μF ±20%	CL21	EA10701010	ELECT 100μF 10V
CF44	DA17223110	CERAMIC 0.022μF ±20%	CL22	DK18103310	CERAMIC 0.01μF +80% -20%
CF45	DA17223110	CERAMIC 0.022μF ±20%	CL23	EJ22601010	ELECT 22μF 10V
CF46	DA17223110	CERAMIC 0.022μF ±20%	CL31	DD38104010	CERAMIC 0.1μF +80% -20%
CF47	DA17223110	CERAMIC 0.022μF ±20%			
CF48	DA17223110	CERAMIC 0.022μF ±20%			
RESISTORS					
RF01	GD05473160	1/6W 47K Ω ±5%	CX49	EJ47502510	ELECT 4.7μF 25V
RF02	GD05473160	1/6W 47K Ω ±5%	CX50	EA47601010	ELECT 47μF 10V
RF03	GD05473160	1/6W 47K Ω ±5%	CX51	EA22700610	ELECT 220μF 6.3V
RF04	GD05473160	1/6W 47K Ω ±5%	CX52	DK18103310	CERAMIC 0.01μF +80% -20%
RF05	GD05470160	1/6W 47 Ω ±5%	CX53	EA22700610	ELECT 220μF 6.3V
RF06	GD05470160	1/6W 47 Ω ±5%	CX54	DK18103310	CERAMIC 0.01μF +80% -20%
RF07	GD05470160	1/6W 47 Ω ±5%	CX55	DD15220300	CERAMIC 22PF ±5%
RF08	GD05470160	1/6W 47 Ω ±5%	CX56	DD15220300	CERAMIC 22PF ±5%
RF09	GD05103160	1/6W 10K Ω ±5%	CX57	DD15220300	CERAMIC 22PF ±5%
RF10	GD05103160	1/6W 10K Ω ±5%	CX58	DD15220300	CERAMIC 22PF ±5%
RF11	GD05103160	1/6W 10K Ω ±5%	CX59	EJ47405010	ELECT 0.47μF 50V
RF13	GD05103160	1/6W 10K Ω ±5%	CX60	DD15560300	CERAMIC 56PF ±5%
RF14	GD05103160	1/6W 10K Ω ±5%	CX61	EJ10505010	ELECT 1μF 50V
RF15	GD05103160	1/6W 10K Ω ±5%	CX62	DK16122300	CERAMIC 1200PF ±10%
RF17	GD05103160	1/6W 10K Ω ±5%	CX63	EJ10505010	ELECT 1μF 50V
RF18	GD05103160	1/6W 10K Ω ±5%	CX64	DF15682350	FILM 0.0068μF ±5%
RF19	GD05103160	1/6W 10K Ω ±5%	CX65	DF15223350	FILM 0.022μF ±5%
RF20	GD05103160	1/6W 10K Ω ±5%	CX66	DD15470300	CERAMIC 47PF ±5%
RF21	GD05223160	1/6W 22K Ω ±5%	CX67	CT12000200	TRIMMING 20PF
RF22	GD05223160	1/6W 22K Ω ±5%	CX69	EA47601010	ELECT 47μF 10V
RF23	GD05223160	1/6W 22K Ω ±5%	CX70	EJ47502510	ELECT 4.7μF 25V
RF24	GD05223160	1/6W 22K Ω ±5%	CX72	DK18103310	CERAMIC 0.01μF +80% -20%
RF29	GD05223160	1/6W 22K Ω ±5%	CX73	EA22700610	ELECT 220μF 6.3V
RF30	GD05223160	1/6W 22K Ω ±5%	CX74	EJ10505010	ELECT 1μF 50V
RF31	GD05223160	1/6W 22K Ω ±5%	CX75	EJ22601010	ELECT 22μF 10V
RF32	GD05223160	1/6W 22K Ω ±5%	CX76	EA10701010	ELECT 100μF 10V
RF45	GD05102160	1/6W 1K Ω ±5%			

ELECTRICAL PARTS LIST

Ref. No.	Part. No.	Description		
RESISTORS				
RL01	GD05820160	1/6W	82 Ω	±5%
RL02	GD05100160	1/6W	10 Ω	±5%
RL03	GD05820160	1/6W	82 Ω	±5%
RL04	GD05100160	1/6W	10 Ω	±5%
RL05	GD05820160	1/6W	82 Ω	±5%
RL06	GD05100160	1/6W	10 Ω	±5%
RL07	GD05750160	1/6W	75 Ω	±5%
RL09	GD05820160	1/6W	82 Ω	±5%
RL10	GD05100160	1/6W	10 Ω	±5%
RL11	GD05750160	1/6W	75 Ω	±5%
RL15	GD05750160	1/6W	75 Ω	±5%
RL17	GD05104160	1/6W	100K Ω	±5%
RL18	GD05104160	1/6W	100K Ω	±5%
RL19	GD05472160	1/6W	4.7K Ω	±5%
RX51	GD05333160	1/6W	33K Ω	±5%
RX52	GD05221160	1/6W	220 Ω	±5%
RX53	GD05105160	1/6W	1M Ω	±5%
RX54	GD05105160	1/6W	1M Ω	±5%
RX55	GD05103160	1/6W	10K Ω	±5%
RX56	GD05103160	1/6W	10K Ω	±5%
RX57	GD05103160	1/6W	10K Ω	±5%
RX59	GD05221160	1/6W	220 Ω	±5%
RX60	GD05152160	1/6W	1.5K Ω	±5%
RX61	GD05682160	1/6W	6.8K Ω	±5%
RX62	GD05102160	1/6W	1K Ω	±5%
RX65	GD05102160	1/6W	1K Ω	±5%
RX66	GD05102160	1/6W	1K Ω	±5%
RX67	GD05104160	1/6W	100K Ω	±5%
RX68	GD05223160	1/6W	22K Ω	±5%
RX69	GD05471160	1/6W	470 Ω	±5%
INTEGRATED CIRCUIT				
QL01	HC10275030	IC	LC7824	
QL02	HC10275030	IC	LC7824	
QL03	HC10046170	IC	MC14576	
QL04	HC12233090	IC	NJM2233BD	
QX60	HC10328030	IC	LC74760-9004	
QX63	HC10141090	IC	NJM2267D	
TRANSISTORS				
QX61	HT30001000	2SC536SP		
QX62	BA20002000	DIGITAL	DTC144ES/UN4213	
QX64	HT30001000	2SC536SP		
DIODES				
DL01	HD20002000	1SS176		
DL02	HD20002000	1SS176		
DL03	HD20002000	1SS176		
DL04	HD20002000	1SS176		
DL05	HD20002000	1SS176		
DL06	HD20002000	1SS176		
DL07	HD20002000	1SS176		
DL08	HD20002000	1SS176		
DL09	HD20002000	1SS176		
DL10	HD20002000	1SS176		
DX61	HD20002000	1SS176		
COILS				
LX51	LC12233800	CHOKE, 22μH		
LX52	LC15623800	CHOKE, 5.6μH		
MISCELLANEOUS				
JL01	YT02041130	TERMINAL, 4P RCA PIN JACK		
JL02	YT02030370	TERMINAL, 3P RCA PIN JACK		
JL03	YP06020640	PLUG, 14P		

Ref. No.	Part. No.	Description
LX53	FM12223010	EMI FILTER
XX51	JX14001260	CRYSTAL, 14.31818MHz
XX52	JX17001260	CRYSTAL, 17.7MHz

PL54-S-VIDEO P.C. BOARD

CAPACITORS				
CL51	EJ10601610	ELECT	10μF	16V
CL52	EJ10601610	ELECT	10μF	16V
CL53	EJ10601610	ELECT	10μF	16V
CL54	EJ10601610	ELECT	10μF	16V
CL55	EJ10601610	ELECT	10μF	16V
CL56	EJ10601610	ELECT	10μF	16V
CL57	EJ10601610	ELECT	10μF	16V
CL58	EJ10601610	ELECT	10μF	16V
CL59	EJ10601610	ELECT	10μF	16V
CL60	EJ10601610	ELECT	10μF	16V
CL61	EJ10601610	ELECT	10μF	16V
CL62	EJ10601610	ELECT	10μF	16V
CL63	EJ10601610	ELECT	10μF	16V
CL64	EJ10601610	ELECT	10μF	16V
CL65	DD38104010	CERAMIC	0.1μF	+80% -20%
CL66	DD38104010	CERAMIC	0.1μF	+80% -20%
CL67	DD38104010	CERAMIC	0.1μF	+80% -20%
CL68	DD38104010	CERAMIC	0.1μF	+80% -20%
CL69	DD38104010	CERAMIC	0.1μF	+80% -20%
CL70	DD38104010	CERAMIC	0.1μF	+80% -20%
CL71	EA10700610	ELECT	100μF	6.3V
CL72	DK18103310	CERAMIC	0.01μF	+80% -20%
CL73	DK18103310	CERAMIC	0.01μF	+80% -20%
CL74	EA10700610	ELECT	100μF	6.3V
CL75	EA10700610	ELECT	100μF	6.3V
CL76	DK18103310	CERAMIC	0.01μF	+80% -20%
CL77	DK18103310	CERAMIC	0.01μF	+80% -20%
CL78	EA10700610	ELECT	100μF	6.3V
CL79	DK18103310	CERAMIC	0.01μF	+80% -20%

RESISTORS				
RL51	GD05100160	1/6W	10 Ω	±5%
RL52	GD05100160	1/6W	10 Ω	±5%
RL53	GD05100160	1/6W	10 Ω	±5%
RL54	GD05100160	1/6W	10 Ω	±5%
RL55	GD05820160	1/6W	82 Ω	±5%
RL56	GD05820160	1/6W	82 Ω	±5%
RL57	GD05820160	1/6W	82 Ω	±5%
RL58	GD05820160	1/6W	82 Ω	±5%
RL59	GD05820160	1/6W	82 Ω	±5%
RL60	GD05820160	1/6W	82 Ω	±5%
RL61	GD05820160	1/6W	82 Ω	±5%
RL62	GD05820160	1/6W	82 Ω	±5%
RL63	GD05750160	1/6W	75 Ω	±5%
RL64	GD05750160	1/6W	75 Ω	±5%
RL65	GD05750160	1/6W	75 Ω	±5%
RL66	GD05750160	1/6W	75 Ω	±5%
RL67	GD05750160	1/6W	75 Ω	±5%
RL68	GD05750160	1/6W	75 Ω	±5%
RL69	GD05104160	1/6W	100K Ω	±5%
RL70	GD05104160	1/6W	100K Ω	±5%
RL71	GD05104160	1/6W	100K Ω	±5%
RL72	GD05104160	1/6W	100K Ω	±5%
RL73	GD05104160	1/6W	100K Ω	±5%
RL74	GD05104160	1/6W	100K Ω	±5%

INTEGRATED CIRCUIT				
QL51	HC10275030	IC	LC7824	
QL52	HC10275030	IC	LC7824	
QL53	HC10275030	IC	LC7824	

Ref. No.	Part. No.	Description	
QL54	HC10275030	IC	LC7824
QL55	HC10046170	IC	MC14576
QL56	HC10046170	IC	MC14576
QL57	HC10046170	IC	MC14576

MISCELLANEOUS			
JL51	YT02021320	TERMINAL, 2P	
JL52	YT02021320	TERMINAL, 2P	
JL53	YT02030350	TERMINAL, 3P	
JL54	YP06020600	PLUG, 10P	
JL55	YL01010140	TERMINAL, GND	

PL94-AUX IN P.C. BOARD

CAPACITORS			
CL91	EJ10601610	ELECT	10 μ F 16V
CL92	EJ22601610	ELECT	22 μ F 16V
CL93	EJ10601610	ELECT	10 μ F 16V
CL94	EJ10601610	ELECT	10 μ F 16V
CL95	DD38104010	CERAMIC	0.1 μ F +80% -20%
CL96	DD38104010	CERAMIC	0.1 μ F +80% -20%
CL97	DK16221300	CERAMIC	220PF $\pm$ 10%
CL98	DK16221300	CERAMIC	220PF $\pm$ 10%

RESISTORS			
RL91	GD05100160	1/6W	10 Ω $\pm$ 5%
RL92	GD05750160	1/6W	75 Ω $\pm$ 5%
RL93	GD05750160	1/6W	75 Ω $\pm$ 5%
RL94	GD05750160	1/6W	75 Ω $\pm$ 5%
RL95	GD05100160	1/6W	10 Ω $\pm$ 5%
RL96	GD05100160	1/6W	10 Ω $\pm$ 5%
RL97	GD05102160	1/6W	1K Ω $\pm$ 5%
RL98	GD05102160	1/6W	1K Ω $\pm$ 5%

RU06	GD05332160	1/6W	3.3K Ω $\pm$ 5%
RU08	GD05682160	1/6W	6.8K Ω $\pm$ 5%
RU10	GD05103160	1/6W	10K Ω $\pm$ 5%
RU38	GD05151160	1/6W	150 Ω $\pm$ 5%

DU46	GD05151160	1/6W	150 Ω $\pm$ 5%
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DIODES			
DU47	HI10095320	L.E.D.	LT3K44B (GRN)

MISCELLANEOUS			
JL91	BY04040020	TERMINAL, AUX / S-VIDEO IN	
JL92	YP06007260	PLUG, 8P	

JU05	YJ06018040	JACK, 4P	
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SU07	SP01011280	PUSH SWITCH, TACT	
SU09	SP01011280	PUSH SWITCH, TACT	
SU11	SP01011280	PUSH SWITCH, TACT	

WL01	YB00152110	CONNECTIVE CORD, 1P	
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PN54-SPK PROTECT P.C. BOARD

CAPACITORS			
CN81	EJ10505010	ELECT	1 μ F 50V
CN82	EJ10505010	ELECT	1 μ F 50V
CN83	DD38104010	CERAMIC	0.1 μ F +80% -20%

RESISTORS			
RN83	GD05473160	1/6W	47K Ω $\pm$ 5%
RN84	GD05473160	1/6W	47K Ω $\pm$ 5%
RN85	GD05104160	1/6W	100K Ω $\pm$ 5%

Ref. No.	Part. No.	Description		
RN86	GD05103160	1/6W	10K Ω	$\pm$ 5%
RN87	GD05473160	1/6W	47K Ω	$\pm$ 5%
RN88	GD05473160	1/6W	47K Ω	$\pm$ 5%

INTEGRATED CIRCUIT			
QN84	HC10042050	IC	TA7317P

TRANSISTORS			
QN81	BA10007210	DIGITAL DTA114ES	
QN82	HT322402A0	2SC2240 (GR, BL)	
QN83	HT322402A0	2SC2240 (GR, BL)	

DIODES			
DN81	HD20002000	1SS176	
DN82	HD20002000	1SS176	

MISCELLANEOUS			
JN81	YJ06019130	JACK, 13P	
JN82	YP06007130	PLUG, 3P	

PP04-SURROUND AMP P.C. BOARD

CAPACITORS			
CP01	DK16102300	CERAMIC	1000PF $\pm$ 10%
CP02	DK16102300	CERAMIC	1000PF $\pm$ 10%
CP03	EQ10606390	ELECT	10 μ F 63V
CP04	EQ10606390	ELECT	10 μ F 63V
CP05	EA10701610	ELECT	100 μ F 16V
CP06	EA10701610	ELECT	100 μ F 16V
CP07	DD11100300	CERAMIC	10PF $\pm$ 0.5PF
CP08	DD11100300	CERAMIC	10PF $\pm$ 0.5PF
CP09	EJ22405010	ELECT	0.22 μ F 50V
CP10	EJ22405010	ELECT	0.22 μ F 50V
CP11	EJ22405010	ELECT	0.22 μ F 50V
CP12	EJ22405010	ELECT	0.22 μ F 50V
CP13	EA10706310	ELECT	100 μ F 63V
CP14	EA10606310	ELECT	10 μ F 63V
CP15	EA10706310	ELECT	100 μ F 63V
CP16	EA10606310	ELECT	10 μ F 63V
CP17	EJ22601010	ELECT	22 μ F 10V
CP21	DD15470300	CERAMIC	47PF $\pm$ 5%
CP22	DD15470300	CERAMIC	47PF $\pm$ 5%

RESISTORS			
RP01	GD05102160	1/6W	1K Ω $\pm$ 5%
RP02	GD05102160	1/6W	1K Ω $\pm$ 5%
RP03	GD05473160	1/6W	47K Ω $\pm$ 5%
RP04	GD05473160	1/6W	47K Ω $\pm$ 5%
RP05	GD05563160	1/6W	56K Ω $\pm$ 5%
RP06	GD05563160	1/6W	56K Ω $\pm$ 5%
RP07	GD05182160	1/6W	1.8K Ω $\pm$ 5%
RP08	GD05182160	1/6W	1.8K Ω $\pm$ 5%
RP09	GD05513160	1/6W	51K Ω $\pm$ 5%
RP10	GD05513160	1/6W	51K Ω $\pm$ 5%
▲RP11	GO10222030	3W	0.22 Ω $\pm$ 10%
▲RP12	GO10222030	3W	0.22 Ω $\pm$ 10%
▲RP13	GG05102160	1/6W	1K Ω $\pm$ 5%
▲RP14	GG05102160	1/6W	1K Ω $\pm$ 5%
RP15	GD05102160	1/6W	1K Ω $\pm$ 5%
RP16	GD05102160	1/6W	1K Ω $\pm$ 5%
RP17	GD05273160	1/6W	27K Ω $\pm$ 5%
RP18	GD05273160	1/6W	27K Ω $\pm$ 5%
RP19	GD05223160	1/6W	22K Ω $\pm$ 5%
RP20	GD05223160	1/6W	22K Ω $\pm$ 5%
▲RP21	GA05100010	1W	10 Ω $\pm$ 5%
▲RP22	GA05100010	1W	10 Ω $\pm$ 5%
RP23	GD05221160	1/6W	220 Ω $\pm$ 5%
RP24	GD05221160	1/6W	220 Ω $\pm$ 5%

Ref. No.	Part. No.	Description
▲RP25	GG05101160	1/6W 100 Ω ±5%
▲RP26	GG05101160	1/6W 100 Ω ±5%
RP27	GD05682160	1/6W 6.8K Ω ±5%
RP28	GD05333160	1/6W 33K Ω ±5%
RP29	GD05100160	1/6W 100 Ω ±5%
▲RP99	GG05100140	1/4W 10 Ω ±5%

INTEGRATED CIRCUIT

▲QP01	HC10357030	IC STK401-140
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TRANSISTORS

QP02	HT322402A0	2SC2240 (GR, BL)
QP03	HT322402A0	2SC2240 (GR, BL)
QP04	HT109702A0	2SA970 (GR, BL)

DIODES

DP01	HD20027010	HSS81TD
DP02	HD20027010	HSS81TD

COILS

LP01	ML08010030	AIR, SPK CHOCK
LP02	ML08010030	AIR, SPK CHOCK

MISCELLANEOUS

JP01	YP06006930	PLUG, 3P
WP03	YB00170870	CONNECTIVE CORD, 1P

PS04-AUDIO FUNCTION P.C. BOARD

CAPACITORS

CS01	EJ10601610	ELECT	10μF	16V
CS02	EJ10601610	ELECT	10μF	16V
CS03	EJ10601610	ELECT	10μF	16V
CS04	EJ10601610	ELECT	10μF	16V
CS05	EJ10601610	ELECT	10μF	16V
CS06	EJ10601610	ELECT	10μF	16V
CS07	EJ47502510	ELECT	4.7μF	25V
CS08	EJ47502510	ELECT	4.7μF	25V
CS09	EA10701610	ELECT	100μF	16V
CS10	EA10701610	ELECT	100μF	16V
CS11	EJ47502510	ELECT	4.7μF	25V
CS12	EJ47502510	ELECT	4.7μF	25V
CS13	EA10701610	ELECT	100μF	16V
CS14	EA10701610	ELECT	100μF	16V
CS15	EJ47502510	ELECT	4.7μF	25V
CS16	EJ47502510	ELECT	4.7μF	25V
CS17	EJ10601610	ELECT	10μF	16V
CS18	EJ10601610	ELECT	10μF	16V
CS19	DD38104010	CERAMIC	0.1μF	+80% -20%
CS21	DD38104010	CERAMIC	0.1μF	+80% -20%
CS22	DD38104010	CERAMIC	0.1μF	+80% -20%
CS23	DK16151300	CERAMIC	150PF	±10%
CS24	DK16151300	CERAMIC	150PF	±10%
CS25	DK16151300	CERAMIC	150PF	±10%
CS26	DK16151300	CERAMIC	150PF	±10%
CS27	DK16221300	CERAMIC	220PF	±10%
CS28	DK16221300	CERAMIC	220PF	±10%
CS29	DK16151300	CERAMIC	150PF	±10%
CS30	DK16151300	CERAMIC	150PF	±10%
CS31	DK16221300	CERAMIC	220PF	±10%
CS32	DK16221300	CERAMIC	220PF	±10%
CS33	DK16221300	CERAMIC	220PF	±10%
CS34	DK16221300	CERAMIC	220PF	±10%
CS35	DK16221300	CERAMIC	220PF	±10%
CS36	DK16221300	CERAMIC	220PF	±10%
CS37	DK16221300	CERAMIC	220PF	±10%
CS38	DK16221300	CERAMIC	220PF	±10%

Ref. No.	Part. No.	Description
RESISTORS		
RS01	GD05473160	1/6W 47K Ω ±5%
RS02	GD05473160	1/6W 47K Ω ±5%
RS03	GD05473160	1/6W 47K Ω ±5%
RS04	GD05473160	1/6W 47K Ω ±5%
RS05	GD05473160	1/6W 47K Ω ±5%
RS06	GD05473160	1/6W 47K Ω ±5%
RS07	GD05102160	1/6W 1K Ω ±5%
RS08	GD05102160	1/6W 1K Ω ±5%
RS09	GD05102160	1/6W 1K Ω ±5%
RS10	GD05102160	1/6W 1K Ω ±5%
RS11	GD05102160	1/6W 1K Ω ±5%
RS12	GD05102160	1/6W 1K Ω ±5%
RS13	GD05473160	1/6W 47K Ω ±5%
RS14	GD05473160	1/6W 47K Ω ±5%
RS15	GD05473160	1/6W 47K Ω ±5%
RS16	GD05473160	1/6W 47K Ω ±5%
RS17	GD05473160	1/6W 47K Ω ±5%
RS18	GD05473160	1/6W 47K Ω ±5%
RS19	GD05473160	1/6W 47K Ω ±5%
RS20	GD05473160	1/6W 47K Ω ±5%
RS21	GD05102160	1/6W 1K Ω ±5%
RS22	GD05102160	1/6W 1K Ω ±5%
RS23	GD05473160	1/6W 47K Ω ±5%
RS24	GD05473160	1/6W 47K Ω ±5%
RS25	GD05473160	1/6W 47K Ω ±5%
RS26	GD05473160	1/6W 47K Ω ±5%
RS27	GD05102160	1/6W 1K Ω ±5%
RS28	GD05102160	1/6W 1K Ω ±5%
RS29	GD05104160	1/6W 100K Ω ±5%
RS30	GD05104160	1/6W 100K Ω ±5%
RS31	GD05104160	1/6W 100K Ω ±5%
RS32	GD05104160	1/6W 100K Ω ±5%
RS33	GD05104160	1/6W 100K Ω ±5%
RS34	GD05104160	1/6W 100K Ω ±5%
RS37	GD05182160	1/6W 1.8K Ω ±5%
RS38	GD05182160	1/6W 1.8K Ω ±5%
RS39	GD05103160	1/6W 10K Ω ±5%
RS40	GD05103160	1/6W 10K Ω ±5%

INTEGRATED CIRCUIT

QS01	HC10008090	IC NJM4558DD
QS02	HC10008090	IC NJM4558DD
QS03	HC10008090	IC NJM4558DD
QS05	HC10008090	IC NJM4558DD
QS11	HC10308030	IC LC78211
QS12	HC10310030	IC LC78213
QS13	HC10008090	IC NJM4558DD

TRANSISTORS

QS07	HT421442A0	2SD2144S (U, V)
QS08	HT421442A0	2SD2144S (U, V)
QS09	BA20001000	DIGITAL DTC114ES
QS10	BA10001000	DIGITAL DTA114ES

MISCELLANEOUS

JS01	YT02060460	TERMINAL, 6P RCA PIN JACK
JS02	YT02040940	TERMINAL, 4P RCA PIN JACK
JS03	YJ06030570	JACK, 16P
JS04	YL01010140	TERMINAL, GND

PS54-V-AUDIO FUNCTION P.C. BOARD

CAPACITORS

CG51	EJ47502510	ELECT	4.7μF	25V
CG52	EJ47502510	ELECT	4.7μF	25V
CG55	EJ47502510	ELECT	4.7μF	25V
CG56	EJ47502510	ELECT	4.7μF	25V

Ref. No.	Part. No.	Description
MISCELLANEOUS		
JS51	YT02060460	TERMINAL, 6P RCA PIN JACK
JS52	YT02080110	TERMINAL, 8P RCA PIN JACK
JS54	YJ06030580	JACK, 20P

PU04-FRONT P.C. BOARD

CAPACITORS

CU01	DA17223110	CERAMIC	0.022μF	±20%
CU02	EJ47601010	ELECT	47μF	10V
CU03	EJ22700610	ELECT	220μF	6.3V
CU04	DA17223110	CERAMIC	0.022μF	±20%
CU05	DA17104110	CERAMIC	0.1μF	±20%
CU07	EX22300530	BIG ELECT	0.22F	5.5V
CU10	DA17223110	CERAMIC	0.022μF	±20%
CU11	DA17223110	CERAMIC	0.022μF	±20%
CU12	DA17223110	CERAMIC	0.022μF	±20%
CU13	DD38104010	CERAMIC	0.1μF	+80% -20%
CU14	DK18103310	CERAMIC	0.01μF	+80% -20%
CU15	DK18103310	CERAMIC	0.01μF	+80% -20%

RESISTORS

RU01	GD05152160	1/6W	1.5K Ω	±5%
RU02	GD05152160	1/6W	1.5K Ω	±5%
RU03	GD05222160	1/6W	2.2K Ω	±5%
RU04	GD05222160	1/6W	2.2K Ω	±5%
RU05	GD05332160	1/6W	3.3K Ω	±5%
RU07	GD05682160	1/6W	6.8K Ω	±5%
RU11	GD05473160	1/6W	47K Ω	±5%
RU14	GD05103160	1/6W	10K Ω	±5%
RU15	GD05103160	1/6W	10K Ω	±5%
RU16	GD05103160	1/6W	10K Ω	±5%
RU17	GD05473160	1/6W	47K Ω	±5%
RU18	GD05183160	1/6W	18K Ω	±5%
RU19	GD05103160	1/6W	10K Ω	±5%
RU20	GD05473160	1/6W	47K Ω	±5%
RU22	GD05470160	1/6W	47 Ω	±5%
RU23	GD05101160	1/6W	100 Ω	±5%
RU24	GD05103160	1/6W	10K Ω	±5%
RU25	GD05221160	1/6W	220 Ω	±5%
RU26	GD05103160	1/6W	10K Ω	±5%
RU27	GD05103160	1/6W	10K Ω	±5%
RU28	GD05331160	1/6W	330 Ω	±5%
RU29	GD05103160	1/6W	10K Ω	±5%
RU30	GD05103160	1/6W	10K Ω	±5%
RU31	GD05473160	1/6W	47K Ω	±5%
RU32	GD05103160	1/6W	10K Ω	±5%
RU33	GD05473160	1/6W	47K Ω	±5%
RU34	GD05103160	1/6W	10K Ω	±5%
RU36	GD05151160	1/6W	150 Ω	±5%
RU37	GD05151160	1/6W	150 Ω	±5%
RU39	GD05471160	1/6W	470 Ω	±5%
RU40	GD05473160	1/6W	47K Ω	±5%
RU41	GD05472160	1/6W	4.7K Ω	±5%
RU42	GD05472160	1/6W	4.7K Ω	±5%
RU43	GD05182160	1/6W	1.8K Ω	±5%
RU44	GD05182160	1/6W	1.8K Ω	±5%
RU45	GD05473160	1/6W	47K Ω	±5%
RU46	GD05103160	1/6W	10K Ω	±5%

DU44	GD05151160	1/6W	150 Ω	±5%
DU45	GD05151160	1/6W	150 Ω	±5%

INTEGRATED CIRCUIT	
QU01	HU260JT120
MICROPROCESSOR	
TMP87CP71F	
QU18	HC712500B0
IC	74HC125

Ref. No.	Part. No.	Description
TRANSISTORS		
QU02	BA10007210	DIGITAL DTA114ES
QU03	HT30001000	2SC536SP
QU04	BA20012210	DIGITAL DTC144ES
QU05	BA20010210	DIGITAL DTC114ES
QU07	HT30001000	2SC536SP
QU08	BA20012210	DIGITAL DTC144ES
QU09	BA20012210	DIGITAL DTC144ES
QU10	BA10010210	DIGITAL DTA144ES
QU11	BA10003210	DIGITAL DTA114TS
QU12	BA10007210	DIGITAL DTA114ES
QU14	BA10010210	DIGITAL DTA144ES
QU15	BA20012210	DIGITAL DTC144ES
QU16	HW10001210	PHOTO UNIT, IR RECIVER
QU17	BA10007210	DIGITAL DTA114ES
QU19	HT30001000	2SC536SP
QU20	HT30001000	2SC536SP
QU21	HT10001000	2SA608SP

DIODES

DU01	HD20029210	1SS132	
DU02	HD20029210	1SS132	
DU03	HD20029210	1SS132	
DU04	HD20029210	1SS132	
DU05	HD20002000	1SS176	
DU06	HD20002000	1SS176	
DU07	HD20002000	1SS176	
DU08	HD20002000	1SS176	
DU09	HD20002000	1SS176	
DU10	HD20002000	1SS176	
DU14	HD20029210	1SS132	
DU18	HD20029210	1SS132	
DU19	HD20002000	1SS176	
DU20	HD20002000	1SS176	
DU21	HD20002000	1SS176	
DU22	HI10099320	L.E.D.	GL3ED8
DU23	HD20002000	1SS176	
DU24	HD20002000	1SS176	
DU25	HD20002000	1SS176	
DU26	HD20002000	1SS176	
DU27	HD20002000	1SS176	
DU28	HD20002000	1SS176	
DU29	HI10062320	L.E.D.	LT3D8B (RED)
DU30	HI10095320	L.E.D.	LT3K44B (GRN)
DU31	HI10095320	L.E.D.	LT3K44B (GRN)
DU32	HI10095320	L.E.D.	LT3K44B (GRN)
DU33	HI10095320	L.E.D.	LT3K44B (GRN)
DU34	HI10095320	L.E.D.	LT3K44B (GRN)
DU35	HI10095320	L.E.D.	LT3K44B (GRN)
DU36	HI10095320	L.E.D.	LT3K44B (GRN)
DU37	HI10095320	L.E.D.	LT3K44B (GRN)
DU38	HI10095320	L.E.D.	LT3K44B (GRN)
DU39	HI10095320	L.E.D.	LT3K44B (GRN)
DU40	HI10095320	L.E.D.	LT3K44B (GRN)
DU41	HI10095320	L.E.D.	LT3K44B (GRN)
DU42	HI10095320	L.E.D.	LT3K44B (GRN)
DU43	HI10095320	L.E.D.	LT3K44B (GRN)
DU51	HD20002000	1SS176	
DU52	HD20002000	1SS176	

MISCELLANEOUS

JU01	YJ07011240	JACK, 31P
JU02	YP06007170	PLUG, 7P
JU03	YJ06030640	JACK, 4P
JU04	YP06020550	PLUG, 4P
JU06	YP06006930	PLUG, 3P
SU08	SP01011280	PUSH SWITCH, TACT
SU10	SP01011280	PUSH SWITCH, TACT

Ref. No.	Part. No.	Description
SU13	SP01011280	PUSH SWITCH, TACT
SU14	SP01011280	PUSH SWITCH, TACT
SU15	SP01011280	PUSH SWITCH, TACT
SU16	SP01011280	PUSH SWITCH, TACT
SU17	SP01011280	PUSH SWITCH, TACT
SU18	SP01011280	PUSH SWITCH, TACT
SU21	SP01011280	PUSH SWITCH, TACT
SU26	SP01011280	PUSH SWITCH, TACT
SU27	SP01011280	PUSH SWITCH, TACT
SU28	SP01011280	PUSH SWITCH, TACT
SU29	SP01011280	PUSH SWITCH, TACT
SU30	SP01011280	PUSH SWITCH, TACT
SU31	SP01011280	PUSH SWITCH, TACT
SU32	SP01011280	PUSH SWITCH, TACT
SU33	SP01011280	PUSH SWITCH, TACT
SU34	SP01011280	PUSH SWITCH, TACT
VU01	HQ31206060	DISPLAY UNIT, FIP12DM8R
XU01	FQ08004010	CERMIC VIB. CST8,0MHz

PU54-MASTER VOL P.C. BOARD

CAPACITORS		
CU51	DA16101110	CERAMIC 100PF ±10%
CU52	DA16101110	CERAMIC 100PF ±10%
RESISTORS		
RU51	GD05104160	1/6W 100K Ω ±5%
RU52	GD05104160	1/6W 100K Ω ±5%
RU53	GD05224160	1/6W 220K Ω ±5%
RU54	GD05224160	1/6W 220K Ω ±5%
TRANSISTORS		
QU51	HT30001000	2SC536SP
QU52	HT30001000	2SC536SP
MISCELLANEOUS		
JU51	YP06020740	PLUG, 4P
SU55	SR02010040	ROTARY SWITCH, MASTER VOL.

PU94-POWER SW P.C. BOARD

MISCELLANEOUS		
JU91	YP06006930	PLUG, 3P
JU92	YP06006930	PLUG, 3P
SU91	SP02011570	PUSH SWITCH, POWER

PV04-DIRECT IN P.C. BOARD

CAPACITORS			
CT04	DK18103310	CERAMIC	0.01μF +80% -20%
CT05	DK18103310	CERAMIC	0.01μF +80% -20%
CV01	EJ10601610	ELECT	10μF 16V
CV02	EJ10601610	ELECT	10μF 16V
CV03	EJ10601610	ELECT	10μF 16V
CV04	EJ10601610	ELECT	10μF 16V
CV05	EJ10601610	ELECT	10μF 16V
CV06	EJ10601610	ELECT	10μF 16V
CV07	DD38104010	CERAMIC	0.1μF +80% -20%
CV08	DD38104010	CERAMIC	0.1μF +80% -20%
CV09	DF15104350	FILM	0.1μF ±5%
CV10	DF15104350	FILM	0.1μF ±5%

Ref. No.	Part. No.	Description
CV11	DF15104350	FILM 0.1μF ±5%
CV12	DF15104350	FILM 0.1μF ±5%
CV13	EJ10601610	ELECT 10μF 16V
CV14	EJ10601610	ELECT 10μF 16V
CV15	DK16101300	CERAMIC 100PF ±10%
CV16	DK18103310	CERAMIC 0.01μF +80% -20%
CV17	DK18103310	CERAMIC 0.01μF +80% -20%
CV18	DK18103310	CERAMIC 0.01μF +80% -20%
CV19	EJ10601610	ELECT 10μF 16V
CV20	EJ10601610	ELECT 10μF 16V
CV21	EJ10601610	ELECT 10μF 16V
CV22	EJ10601610	ELECT 10μF 16V
CV23	DK16151300	CERAMIC 150PF ±10%
CV24	DK16151300	CERAMIC 150PF ±10%
CV25	DK16151300	CERAMIC 150PF ±10%
CV26	DK16151300	CERAMIC 150PF ±10%
CV27	DK16151300	CERAMIC 150PF ±10%
CV28	DK16151300	CERAMIC 150PF ±10%
CV31	EJ10601610	ELECT 10μF 16V
CV32	EJ10601610	ELECT 10μF 16V
CV33	EJ10601610	ELECT 10μF 16V
CV34	EJ10601610	ELECT 10μF 16V
CV35	EJ10601610	ELECT 10μF 16V
CV36	EJ10601610	ELECT 10μF 16V
CV37	DA17223110	CERAMIC 0.022μF ±20%
CV38	EJ10700610	ELECT 100μF 6.3V
CV39	DD38104010	CERAMIC 0.1μF +80% -20%
CV40	DA17223110	CERAMIC 0.022μF ±20%
CV41	DD38104010	CERAMIC 0.1μF +80% -20%
CV42	DD38104010	CERAMIC 0.1μF +80% -20%
CV43	DK16221300	CERAMIC 220PF ±10%
CV44	DK16221300	CERAMIC 220PF ±10%
CV45	DK16221300	CERAMIC 220PF ±10%
CV46	DK16221300	CERAMIC 220PF ±10%
CV47	DK16221300	CERAMIC 220PF ±10%
CV48	DK16221300	CERAMIC 220PF ±10%
CV50	DK16101300	CERAMIC 100PF ±10%
CV97	DK16101300	CERAMIC 100PF ±10%
CV99	DK18103310	CERAMIC 0.01μF +80% -20%

RESISTORS

RT01	GD05271160	1/6W 270 Ω ±5%
RT02	GD05102160	1/6W 1K Ω ±5%
RT05	GD05271160	1/6W 270 Ω ±5%
RT07	GD05222160	1/6W 2.2K Ω ±5%
RT20	GD05220160	1/6W 22 Ω ±5%
RV01	GD05102160	1/6W 1K Ω ±5%
RV02	GD05102160	1/6W 1K Ω ±5%
RV03	GD05102160	1/6W 1K Ω ±5%
RV04	GD05102160	1/6W 1K Ω ±5%
RV05	GD05102160	1/6W 1K Ω ±5%
RV06	GD05102160	1/6W 1K Ω ±5%
RV07	GD05104160	1/6W 100K Ω ±5%
RV08	GD05104160	1/6W 100K Ω ±5%
RV09	GD05104160	1/6W 100K Ω ±5%
RV10	GD05104160	1/6W 100K Ω ±5%
RV11	GD05104160	1/6W 100K Ω ±5%
RV12	GD05104160	1/6W 100K Ω ±5%
RV13	GD05104160	1/6W 100K Ω ±5%
RV14	GD05104160	1/6W 100K Ω ±5%
RV15	GD05104160	1/6W 100K Ω ±5%
RV16	GD05104160	1/6W 100K Ω ±5%
RV17	GD05104160	1/6W 100K Ω ±5%
RV18	GD05104160	1/6W 100K Ω ±5%
RV21	GD05104160	1/6W 100K Ω ±5%
RV22	GD05104160	1/6W 100K Ω ±5%
RV23	GD05153160	1/6W 15K Ω ±5%
RV24	GD05153160	1/6W 15K Ω ±5%
RV25	GD05153160	1/6W 15K Ω ±5%

Ref. No.	Part. No.	Description
RV26	GD05153160	1/6W 15K Ω $\pm 5\%$
RV27	GD05223160	1/6W 22K Ω $\pm 5\%$
RV28	GD05223160	1/6W 22K Ω $\pm 5\%$
RV29	GD05473160	1/6W 47K Ω $\pm 5\%$
RV30	GD05473160	1/6W 47K Ω $\pm 5\%$
RV33	GD05103160	1/6W 10K Ω $\pm 5\%$
RV34	GD05103160	1/6W 10K Ω $\pm 5\%$
RV35	GD05103160	1/6W 10K Ω $\pm 5\%$
RV36	GD05103160	1/6W 10K Ω $\pm 5\%$
RV37	GD05562160	1/6W 5.6K Ω $\pm 5\%$
RV38	GD05562160	1/6W 5.6K Ω $\pm 5\%$
RV39	GD05104160	1/6W 100K Ω $\pm 5\%$
RV40	GD05104160	1/6W 100K Ω $\pm 5\%$
RV41	GD05473160	1/6W 47K Ω $\pm 5\%$
RV42	GD05473160	1/6W 47K Ω $\pm 5\%$
RV43	GD05473160	1/6W 47K Ω $\pm 5\%$
RV44	GD05473160	1/6W 47K Ω $\pm 5\%$
RV45	GD05473160	1/6W 47K Ω $\pm 5\%$
RV46	GD05473160	1/6W 47K Ω $\pm 5\%$
INTEGRATED CIRCUIT		
QT04	HC713200A0	IC 74LS132
QV01	HC10008090	IC NJM4558DD
QV02	HC10008090	IC NJM4558DD
QV03	HC10008090	IC NJM4558DD
QV04	HC10309030	IC LC78212
QV05	HC10008090	IC NJM4558DD
QV06	HC10310030	IC LC78213
QV07	HC10008090	IC NJM4558DD
TRANSISTORS		
QT01	HW10006320	PHOTO UNIT PC-817
QT02	HW10006320	PHOTO UNIT PC-817
QT05	BA10007210	DIGITAL DTA114ES
DIODES		
DV01	HD20002000	1SS176
DV02	HD20002000	1SS176
MISCELLANEOUS		
JT01	YJ11000500	JACK, 8P DIN
JT02	YJ01004220	JACK, MINI
JT03	YJ01004230	JACK, MINI
JT04	YP06003830	PLUG, 3P
JV01	YT02011020	TERMINAL, 1P RCA PIN JACK
JV02	YT02060540	TERMINAL, 6P RCA PIN JACK
JV04	YP06020940	PLUG, 12P
JV05	YP06020940	PLUG, 12P
JV06	YJ06030590	JACK, 24P
JV07	YP06020640	PLUG, 14P
JV08	YP06006720	PLUG, 12P
JV09	YL01010140	TERMINAL, GND
JV10	YP06020940	PLUG, 12P
JV11	YL01010140	TERMINAL, GND
LV04	FM12223010	EMI FILTER
LV05	FM12223010	EMI FILTER
LV06	FM12223010	EMI FILTER
WV01	YB00040430	CONNECTIVE CORD, 1P

PW04-H.P P.C. BOARD

CAPACITORS		
CW01	DK18103310	CERAMIC 0.01 μ F +80% -20%
CW02	DK18103310	CERAMIC 0.01 μ F +80% -20%
CW03	DK18103310	CERAMIC 0.01 μ F +80% -20%

Ref. No.	Part. No.	Description
MISCELLANEOUS		
JW01	YJ01004240	JACK, PHONE
JW02	YP06010450	PLUG, 5P
WW01	YB00152110	CONNECTIVE CORD, 1P

PY04-CONNECT P.C. BOARD

CAPACITORS		
CS91	EJ10601610	ELECT 10 μ F 16V
CS92	EJ10601610	ELECT 10 μ F 16V
CS95	DK16151300	CERAMIC 150PF $\pm 10\%$
CS96	DK16151300	CERAMIC 150PF $\pm 10\%$
CY01	EJ47502510	ELECT 4.7 μ F 25V
CY02	DD38104010	CERAMIC 0.1 μ F +80% -20%
CY04	DD38104010	CERAMIC 0.1 μ F +80% -20%
CY06	DD15470300	CERAMIC 47PF $\pm 5\%$
CY07	DD15470300	CERAMIC 47PF $\pm 5\%$
CY09	DD15470300	CERAMIC 47PF $\pm 5\%$
CY14	DD38104010	CERAMIC 0.1 μ F +80% -20%
CY15	DK18103310	CERAMIC 0.01 μ F +80% -20%
RESISTORS		
RS91	GD05473160	1/6W 47K Ω $\pm 5\%$
RS92	GD05473160	1/6W 47K Ω $\pm 5\%$
RY01	GD05103160	1/6W 10K Ω $\pm 5\%$
RY02	GD05103160	1/6W 10K Ω $\pm 5\%$
RY03	GD05103160	1/6W 10K Ω $\pm 5\%$
RY04	GD05103160	1/6W 10K Ω $\pm 5\%$
RY05	GD05103160	1/6W 10K Ω $\pm 5\%$
RY06	GD05103160	1/6W 10K Ω $\pm 5\%$
RY07	GD05103160	1/6W 10K Ω $\pm 5\%$
RY08	GD05103160	1/6W 10K Ω $\pm 5\%$
RY09	GD05103160	1/6W 10K Ω $\pm 5\%$
RY10	GD05103160	1/6W 10K Ω $\pm 5\%$
RY11	GD05103160	1/6W 10K Ω $\pm 5\%$
RY12	GD05103160	1/6W 10K Ω $\pm 5\%$
RY13	GD05103160	1/6W 10K Ω $\pm 5\%$
RY14	GD05103160	1/6W 10K Ω $\pm 5\%$
RY15	GD05103160	1/6W 10K Ω $\pm 5\%$
RY18	GD05472160	1/6W 4.7K Ω $\pm 5\%$
RY19	GD05472160	1/6W 4.7K Ω $\pm 5\%$
RY20	GD05103160	1/6W 10K Ω $\pm 5\%$
RY21	GD05103160	1/6W 10K Ω $\pm 5\%$
RY22	GD05103160	1/6W 10K Ω $\pm 5\%$
RY23	GD05332160	1/6W 3.3K Ω $\pm 5\%$
RY24	GD05103160	1/6W 10K Ω $\pm 5\%$
RY25	GD05103160	1/6W 10K Ω $\pm 5\%$
RY26	GD05103160	1/6W 10K Ω $\pm 5\%$
RY27	GD05103160	1/6W 10K Ω $\pm 5\%$
RY28	GD05472160	1/6W 4.7K Ω $\pm 5\%$
RY29	GD05472160	1/6W 4.7K Ω $\pm 5\%$
RY30	GD05103160	1/6W 10K Ω $\pm 5\%$
RY31	GD05103160	1/6W 10K Ω $\pm 5\%$
RY32	GD05103160	1/6W 10K Ω $\pm 5\%$
RY33	GD05103160	1/6W 10K Ω $\pm 5\%$
UY97	GD05102160	1/6W 1K Ω $\pm 5\%$

INTEGRATED CIRCUIT

QY09	HC38115090	IC NJM78L15A
QY10	HC10370050	IC TC9173P
QY11	HC10250050	IC TC9174P
QY12	HC754100B0	IC 74HC541
QS91	HC10008090	IC NJM4558DD

Ref. No. Part. No. Description

TRANSISTORS

QY01	BA10001000	DIGITAL	DTA114ES
QY02	BA20002000	DIGITAL	DTC144ES
QY03	BA10001000	DIGITAL	DTA114ES
QY04	BA20002000	DIGITAL	DTC144ES
QY05	BA10001000	DIGITAL	DTA114ES
QY06	BA20002000	DIGITAL	DTC144ES
QY07	BA10001000	DIGITAL	DTA114ES
QY08	BA20002000	DIGITAL	DTC144ES
QY13	BA20002000	DIGITAL	DTC144ES
QY14	BA10001000	DIGITAL	DTA114ES
QY15	BA20002000	DIGITAL	DTC144ES

DIODES

DY01	HD20002000	1SS176	
DY02	HD20002000	1SS176	
DY03	HD20002000	1SS176	
DY04	HD20002000	1SS176	
DY05	HD20002000	1SS176	
DY06	HD20002000	1SS176	
DY07	HD20002000	1SS176	
DY08	HD20002000	1SS176	
DY09	HD20002710	1D3	1A/200V
DY10	HD20002000	1SS176	
DY11	HD20002000	1SS176	
DY14	HD30361000	ZENER	3.6V

MISCELLANEOUS

JY01	YJ06030140	JACK	14P
JY02	YP06020670	PLUG	16P
JY03	YP06020680	PLUG	20P
JY04	YJ06030140	JACK	14P
JY05	YJ06030100	JACK	10P
JY06	YP06020700	PLUG	30P
JY07	YJ06030140	JACK	14P
JY08	YP06020690	PLUG	24P
JY09	YJ07011240	JACK	31P
JY10	YP06006680	PLUG	8P
JY11	YP06003830	PLUG	3P

P301-TUNER BUFFER AMP P.C. BOARD

CAPACITORS

C301	DK16221300	CERAMIC	220PF	±10%
C302	DK16221300	CERAMIC	220PF	±10%
C303	EJ10601610	ELECT	10μF	16V
C304	EJ10601610	ELECT	10μF	16V
C305	DK16151300	CERAMIC	150PF	±10%
C306	DK16151300	CERAMIC	150PF	±10%
C307	EJ10601610	ELECT	10μF	16V
C308	EJ10601610	ELECT	10μF	16V
C309	DK16102300	CERAMIC	1000PF	±10%
C310	DK16102300	CERAMIC	1000PF	±10%
C311	EA10701610	ELECT	100μF	16V
C312	EA10701610	ELECT	100μF	16V

RESISTORS

R301	GD05104160	1/6W	100K Ω	±5%
R302	GD05104160	1/6W	100K Ω	±5%
R303	GD05102160	1/6W	1K Ω	±5%
R304	GD05102160	1/6W	1K Ω	±5%
R305	GD05104160	1/6W	100K Ω	±5%
R306	GD05104160	1/6W	100K Ω	±5%
R309	GD05221160	1/6W	220 Ω	±5%
R310	GD05221160	1/6W	220 Ω	±5%
R311	GD05473160	1/6W	47K Ω	±5%
R312	GD05473160	1/6W	47K Ω	±5%
R313	GG05331140	1/4W	330 Ω	±5%
R314	GG05331140	1/4W	330 Ω	±5%

Ref. No. Part. No. Description

INTEGRATED CIRCUIT
IC NJM4558DD

MISCELLANEOUS

J301	YP06020640	PLUG	14P
J302	YL01010140	TERMINAL	GND
J303	YT02021200	TERMINAL	2P RCA PIN JACK

P604-THX PRO-LOGIC DSP P.C. BOARD

CAPACITORS, CHIP

CR01	DK98104200	CERAMIC	0.1μF	+80% -20%
CR02	EY10700620	ELECT	100μF	6.3V
CR03	EY10700620	ELECT	100μF	6.3V
CR04	DK98104200	CERAMIC	0.1μF	+80% -20%
CR05	DK98104200	CERAMIC	0.1μF	+80% -20%
CR06	DK98104200	CERAMIC	0.1μF	+80% -20%
CR07	EY10700620	ELECT	100μF	6.3V
CR08	DK96103200	CERAMIC	0.01μF	±10%
CR09	EY10601620	ELECT	10μF	16V
CR10	EY10601620	ELECT	10μF	16V
CR11	DD95101300	CERAMIC	100PF	±5%
CR12	DD95101300	CERAMIC	100PF	±5%
CR13	DK98104200	CERAMIC	0.1μF	+80% -20%
CR14	DK98104200	CERAMIC	0.1μF	+80% -20%
CR15	DD95331300	CERAMIC	330PF	±5%
CR16	DD95331300	CERAMIC	330PF	±5%
CR17	DD95151300	CERAMIC	150PF	±5%
CR18	DD95151300	CERAMIC	150PF	±5%
CR19	DK98104200	CERAMIC	0.1μF	+80% -20%
CR20	DK98104200	CERAMIC	0.1μF	+80% -20%
CR31	DK98104200	CERAMIC	0.1μF	+80% -20%
CR32	EY10700620	ELECT	100μF	6.3V
CR33	EY10700620	ELECT	100μF	6.3V
CR34	DK98104200	CERAMIC	0.1μF	+80% -20%
CR35	DK98104200	CERAMIC	0.1μF	+80% -20%
CR36	DK98104200	CERAMIC	0.1μF	+80% -20%
CR37	EY10700620	ELECT	100μF	6.3V
CR38	DK96103200	CERAMIC	0.01μF	±10%
CR39	EY10601620	ELECT	10μF	16V
CR40	EY10601620	ELECT	10μF	16V
CR41	DD95101300	CERAMIC	100PF	±5%
CR42	DD95101300	CERAMIC	100PF	±5%
CR43	DK98104200	CERAMIC	0.1μF	+80% -20%
CR44	DK98104200	CERAMIC	0.1μF	+80% -20%
CR45	DD95331300	CERAMIC	330PF	±5%
CR46	DK96104200	CERAMIC	0.1μF	±10%
CR47	DD95151300	CERAMIC	150PF	±5%
CR48	DK96473200	CERAMIC	0.047μF	±10%
CR49	DK98104200	CERAMIC	0.1μF	+80% -20%
CR50	DK98104200	CERAMIC	0.1μF	+80% -20%
CR61	DK98104200	CERAMIC	0.1μF	+80% -20%
CR62	EY10700620	ELECT	100μF	6.3V
CR63	EY10700620	ELECT	100μF	6.3V
CR64	DK98104200	CERAMIC	0.1μF	+80% -20%
CR65	DK98104200	CERAMIC	0.1μF	+80% -20%
CR66	DK98104200	CERAMIC	0.1μF	+80% -20%
CR67	EY10700620	ELECT	100μF	6.3V
CR68	DK96103200	CERAMIC	0.01μF	±10%
CR69	EY10601620	ELECT	10μF	16V
CR70	EY10601620	ELECT	10μF	16V
CR71	DD95101300	CERAMIC	100PF	±5%
CR72	DD95101300	CERAMIC	100PF	±5%
CR73	DK98104200	CERAMIC	0.1μF	+80% -20%
CR74	DK98104200	CERAMIC	0.1μF	+80% -20%
CR75	DD95331300	CERAMIC	330PF	±5%
CR76	DD95331300	CERAMIC	330PF	±5%
CR77	DD95151300	CERAMIC	150PF	±5%

Ref. No.	Part. No.	Description	Ref. No.	Part. No.	Description
CR78	DD95151300	CERAMIC 150PF ±5%	C693	DK98104200	CERAMIC 0.1μF +80% -20%
CR79	DK98104200	CERAMIC 0.1μF +80% -20%	C694	EY10700620	ELECT 100μF 6.3V
CR80	DK98104200	CERAMIC 0.1μF +80% -20%			
					RESISTORS, CHIP
C601	EY10601620	ELECT 10μF 16V	C641	NN05000610	1/16W 0 Ω ±5%
C602	EY10601620	ELECT 10μF 16V	C642	NN05000610	1/16W 0 Ω ±5%
C603	DD95151300	CERAMIC 150PF ±5%	C656	NN05000610	1/16W 0 Ω ±5%
C604	DD95151300	CERAMIC 150PF ±5%			
C605	DD95151300	CERAMIC 150PF ±5%	RR01	NN05682610	1/16W 6.8K Ω ±5%
C606	DD95151300	CERAMIC 150PF ±5%	RR02	NN05682610	1/16W 6.8K Ω ±5%
C607	DK98104200	CERAMIC 0.1μF +80% -20%	RR03	NN05103610	1/16W 10K Ω ±5%
C608	DK98104200	CERAMIC 0.1μF +80% -20%	RR04	NN05103610	1/16W 10K Ω ±5%
C609	DK98104200	CERAMIC 0.1μF +80% -20%	RR05	NN05223610	1/16W 22K Ω ±5%
C610	DK98104200	CERAMIC 0.1μF +80% -20%	RR06	NN05223610	1/16W 22K Ω ±5%
C611	DK98104200	CERAMIC 0.1μF +80% -20%	RR07	NN05223610	1/16W 22K Ω ±5%
C612	DK98104200	CERAMIC 0.1μF +80% -20%	RR08	NN05223610	1/16W 22K Ω ±5%
C617	DK98104200	CERAMIC 0.1μF +80% -20%	RR09	NN05223610	1/16W 22K Ω ±5%
C618	DK98104200	CERAMIC 0.1μF +80% -20%	RR10	NN05223610	1/16W 22K Ω ±5%
C619	DD95471370	CERAMIC 470PF ±5%	RR21	NN05682610	1/16W 6.8K Ω ±5%
C620	DD95471370	CERAMIC 470PF ±5%	RR22	NN05682610	1/16W 6.8K Ω ±5%
C621	EY10601620	ELECT 10μF 16V	RR23	NN05103610	1/16W 10K Ω ±5%
C622	EY10601620	ELECT 10μF 16V	RR24	NN05103610	1/16W 10K Ω ±5%
C623	DK98104200	CERAMIC 0.1μF +80% -20%	RR25	NN05223610	1/16W 22K Ω ±5%
C624	EY10700620	ELECT 100μF 6.3V	RR26	NN05223610	1/16W 22K Ω ±5%
C625	EY10700620	ELECT 100μF 6.3V	RR27	NN05223610	1/16W 22K Ω ±5%
C626	DK98104200	CERAMIC 0.1μF +80% -20%	RR28	NN05273610	1/16W 27K Ω ±5%
C627	DK98104200	CERAMIC 0.1μF +80% -20%	RR29	NN05223610	1/16W 22K Ω ±5%
C628	EY10700620	ELECT 100μF 6.3V	RR30	NN05273610	1/16W 27K Ω ±5%
C629	DK98104200	CERAMIC 0.1μF +80% -20%	RR41	NN05473610	1/16W 47K Ω ±5%
C630	EY10700620	ELECT 100μF 6.3V	RR42	NN05473610	1/16W 47K Ω ±5%
C631	DK98104200	CERAMIC 0.1μF +80% -20%	RR43	NN05103610	1/16W 10K Ω ±5%
C635	DK96103200	CERAMIC 0.01μF ±10%	RR44	NN05103610	1/16W 10K Ω ±5%
C636	DK96103200	CERAMIC 0.01μF ±10%	RR45	NN05103610	1/16W 10K Ω ±5%
C637	DK96103200	CERAMIC 0.01μF ±10%	RR46	NN05103610	1/16W 10K Ω ±5%
C638	DK96103200	CERAMIC 0.01μF ±10%	RR47	NN05223610	1/16W 22K Ω ±5%
C651	DK98104200	CERAMIC 0.1μF +80% -20%	RR48	NN05223610	1/16W 22K Ω ±5%
C652	EY10700620	ELECT 100μF 6.3V	RR49	NN05223610	1/16W 22K Ω ±5%
C653	DK98104200	CERAMIC 0.1μF +80% -20%	RR50	NN05223610	1/16W 22K Ω ±5%
C654	EY10700620	ELECT 100μF 6.3V	RR77	NN05000610	1/16W 0 Ω ±5%
C657	DK98104200	CERAMIC 0.1μF +80% -20%	RR81	NN05000610	1/16W 0 Ω ±5%
C658	EY10700620	ELECT 100μF 6.3V	RR82	NN05000610	1/16W 0 Ω ±5%
C659	DK98104200	CERAMIC 0.1μF +80% -20%	RR85	NN05000610	1/16W 0 Ω ±5%
C660	EY10700620	ELECT 100μF 6.3V			
C661	DK98104200	CERAMIC 0.1μF +80% -20%	R601	NN05102610	1/16W 1K Ω ±5%
C662	EY10700620	ELECT 100μF 6.3V	R602	NN05102610	1/16W 1K Ω ±5%
C663	DK98104200	CERAMIC 0.1μF +80% -20%	R603	NN05473610	1/16W 47K Ω ±5%
C664	EY10700620	ELECT 100μF 6.3V	R604	NN05473610	1/16W 47K Ω ±5%
C665	DK98104200	CERAMIC 0.1μF +80% -20%	R605	NN05103610	1/16W 10K Ω ±5%
C666	EY10700620	ELECT 100μF 6.3V	R606	NN05103610	1/16W 10K Ω ±5%
C667	DK98104200	CERAMIC 0.1μF +80% -20%	R607	NN05103610	1/16W 10K Ω ±5%
C668	EY10700620	ELECT 100μF 6.3V	R608	NN05103610	1/16W 10K Ω ±5%
C671	EY10601620	ELECT 10μF 16V	R609	NN05103610	1/16W 10K Ω ±5%
C672	DK98104200	CERAMIC 0.1μF +80% -20%	R610	NN05103610	1/16W 10K Ω ±5%
C673	EY10601620	ELECT 10μF 16V	R611	NN05103610	1/16W 10K Ω ±5%
C676	DK98104200	CERAMIC 0.1μF +80% -20%	R612	NN05103610	1/16W 10K Ω ±5%
C677	DK98104200	CERAMIC 0.1μF +80% -20%	R613	NN05103610	1/16W 10K Ω ±5%
C678	DD95101300	CERAMIC 100PF ±5%	R614	NN05103610	1/16W 10K Ω ±5%
C679	DD95101300	CERAMIC 100PF ±5%	R615	NN05221610	1/16W 220 Ω ±5%
C681	DK96103200	CERAMIC 0.01μF ±10%	R616	NN05221610	1/16W 220 Ω ±5%
C682	EY10601620	ELECT 10μF 16V	R617	NN05103610	1/16W 10K Ω ±5%
C683	DK96102300	CERAMIC 1000PF ±5%	R618	NN05103610	1/16W 10K Ω ±5%
C684	DK98104200	CERAMIC 0.1μF +80% -20%	R619	NN05221610	1/16W 220 Ω ±5%
C685	DK98104200	CERAMIC 0.1μF +80% -20%	R620	NN05221610	1/16W 220 Ω ±5%
C686	EY10700620	ELECT 100μF 6.3V	R621	NN05103610	1/16W 10K Ω ±5%
C687	DK96103200	CERAMIC 0.01μF ±10%	R622	NN05000610	1/16W 0 Ω ±5%
C688	DK98104200	CERAMIC 0.1μF +80% -20%	R661	NN05222610	1/16W 2.2K Ω ±5%
C689	DD95120300	CERAMIC 12PF ±5%	R662	NN05222610	1/16W 2.2K Ω ±5%
C690	DD95120300	CERAMIC 12PF ±5%	R666	NN05222610	1/16W 2.2K Ω ±5%
C691	DK98104200	CERAMIC 0.1μF +80% -20%	R667	NN05222610	1/16W 2.2K Ω ±5%
C692	DK98104200	CERAMIC 0.1μF +80% -20%	R673	NN05000610	1/16W 0 Ω ±5%

Ref. No.	Part. No.	Description	Ref. No.	Part. No.	Description
R674	NN05000610	1/16W 0 Ω $\pm 5\%$	CN08	EJ10505010	ELECT 1 μ F 50V
R681	NN05473610	1/16W 47K Ω $\pm 5\%$	CN09	EJ10701010	ELECT 100 μ F 10V
R682	NN05222610	1/16W 2.2K Ω $\pm 5\%$	CN10	DD38104010	CERAMIC 0.1 μ F +80% -20%
R683	NN05750610	1/16W 75 Ω $\pm 5\%$	CN12	DD38104010	CERAMIC 0.1 μ F +80% -20%
R684	NN05563610	1/16W 56K Ω $\pm 5\%$	CN13	DK16101300	CERAMIC 100PF $\pm 10\%$
R685	NN05333610	1/16W 33K Ω $\pm 5\%$	CN14	DK16101300	CERAMIC 100PF $\pm 10\%$
R686	NN05123610	1/16W 12K Ω $\pm 5\%$	CN15	DK18103310	CERAMIC 0.01 μ F +80% -20%
R687	NN05562610	1/16W 5.6K Ω $\pm 5\%$	CN16	DK18103310	CERAMIC 0.01 μ F +80% -20%
R688	NN05562610	1/16W 5.6K Ω $\pm 5\%$			
R689	NN05121610	1/16W 120 Ω $\pm 5\%$	C701	OA47601020	ELECT 47 μ F 10V
R690	NN05224610	1/16W 220K Ω $\pm 5\%$	C702	OA47601020	ELECT 47 μ F 10V
R691	NN05471610	1/16W 470 Ω $\pm 5\%$	C703	DK16681300	CERAMIC 680PF $\pm 10\%$
R692	NN05123610	1/16W 12K Ω $\pm 5\%$	C704	DK16681300	CERAMIC 680PF $\pm 10\%$
R693	NN05750610	1/16W 75 Ω $\pm 5\%$	C705	DK16331300	CERAMIC 330PF $\pm 10\%$
R694	NN05000610	1/16W 0 Ω $\pm 5\%$	C706	DK16331300	CERAMIC 330PF $\pm 10\%$
R697	NN05104610	1/16W 100K Ω $\pm 5\%$	C707	EA47700610	ELECT 470 μ F 6.3V
			C708	EA47700610	ELECT 470 μ F 6.3V
L606	NN05000610	1/16W 0 Ω $\pm 5\%$	C709	EA10510010	ELECT 1 μ F 100V
L607	RI05000180	1/8W 0 Ω $\pm 5\%$	C710	EA10510010	ELECT 1 μ F 100V
			C711	OA10610020	ELECT 10 μ F 100V
			C712	OA10610020	ELECT 10 μ F 100V
			C713	DK16221300	CERAMIC 220PF $\pm 10\%$
			C714	DK16221300	CERAMIC 220PF $\pm 10\%$
			C715	DD15470300	CERAMIC 47PF $\pm 5\%$
			C716	DD15470300	CERAMIC 47PF $\pm 5\%$
			C719	OA47706320	ELECT 470 μ F 63V
			C720	OA47706320	ELECT 470 μ F 63V
			C721	OA47706320	ELECT 470 μ F 63V
			C722	OA47706320	ELECT 470 μ F 63V
			C723	OA10405020	ELECT 0.1 μ F 50V
			C724	OA10405020	ELECT 0.1 μ F 50V
			C725	OA10405020	ELECT 0.1 μ F 50V
			C726	OA10405020	ELECT 0.1 μ F 50V
			C751	OA47601020	ELECT 47 μ F 10V
			C752	DK16681300	CERAMIC 680PF $\pm 10\%$
			C753	DK16331300	CERAMIC 330PF $\pm 10\%$
			C754	EA47700610	ELECT 470 μ F 6.3V
			C756	OA10610020	ELECT 10 μ F 100V
			C757	DK16221300	CERAMIC 220PF $\pm 10\%$
			C758	DD15470300	CERAMIC 47PF $\pm 5\%$
			C759	EA10510010	ELECT 1 μ F 100V
			C760	OA47706320	ELECT 470 μ F 63V
			C761	OA47706320	ELECT 470 μ F 63V
			C762	EJ10405010	ELECT 0.1 μ F 50V
			C763	EJ10405010	ELECT 0.1 μ F 50V
			▲C801	DK18103560	CERAMIC 0.01 μ F +80% -20%
			▲C802	OB27906310	ELECT 27000 μ F 63V
			▲C803	OB27906310	ELECT 27000 μ F 63V
			▲C804	DK18103560	CERAMIC 0.01 μ F +80% -20%
			▲C805	EB10906380	ELECT 10000 μ F 63V
			▲C806	EB10906380	ELECT 10000 μ F 63V
			C807	DK18103310	CERAMIC 0.01 μ F +80% -20%
			C808	DK18103310	CERAMIC 0.01 μ F +80% -20%
			C809	EA22802510	ELECT 2200 μ F 25V
			C810	EA33802510	ELECT 3300 μ F 25V
			C811	DK18103310	CERAMIC 0.01 μ F +80% -20%
			C812	DK18103310	CERAMIC 0.01 μ F +80% -20%
			C813	EA10701610	ELECT 100 μ F 16V
			C814	EA10701610	ELECT 100 μ F 16V
			C815	DK18103310	CERAMIC 0.01 μ F +80% -20%
			C816	DK18103310	CERAMIC 0.01 μ F +80% -20%
			C817	EA22801610	ELECT 2200 μ F 16V
			C818	EA22801610	ELECT 2200 μ F 16V
			C820	DA17103110	CERAMIC 0.01 μ F $\pm 20\%$
			C821	EA10701610	ELECT 100 μ F 16V
			C822	EA10701610	ELECT 100 μ F 16V
			C823	EA10701610	ELECT 100 μ F 16V
			C824	DK18103310	CERAMIC 0.01 μ F +80% -20%
			C825	EA10701610	ELECT 100 μ F 16V
INTEGRATED CIRCUIT					
Q601	HC10359030	IC LC83016JE			
Q602	HC10360030	IC LC83017JE			
Q603	HC10338030	IC LC32464PM-80			
Q604	HC10338030	IC LC32464PM-80			
Q605	HC10015480	IC AK4320 (DAC)			
Q606	HC10015480	IC AK4320 (DAC)			
Q607	HC10015480	IC AK4320 (DAC)			
Q608	HC10016480	IC AK5389 (ADC)			
Q609	HC10172090	IC NJM2115M			
Q610	HC10172090	IC NJM2115M			
Q611	HC10172090	IC NJM2115M			
Q612	HC10172090	IC NJM2115M			
Q613	HC10011090	IC NJM4558M (Y)			
Q614	HC10011090	IC NJM4558M (Y)			
Q615	HC10011090	IC NJM4558M (Y)			
Q616	HC10011090	IC NJM4558M (Y)			
Q617	HC10011090	IC NJM4558M (Y)			
Q618	HC10011090	IC NJM4558M (Y)			
Q619	HC10339030	IC LC8903Q			
Q620	HC700400Z0	IC 74HCU04			
Q621	HC700800Z0	IC 74HC08			
Q622	HC99005090	IC NJM79L05UA			
TRANSISTOR					
Q623	BA20004210	DIGITAL DTC144EK			
MISCELLANEOUS					
J601	YJ06031000	JACK, 12P			
J602	YJ06031000	JACK, 12P			
J603	YJ06031000	JACK, 12P			
L601	FM32102010	EMI FILTER			
L602	FN31000010	FEI FILTER			
L603	FN31000010	FEI FILTER			
L604	FN31000010	EMI FILTER			
L605	FN31000010	EMI FILTER			
X681	FZ02255030	OTHER VIBRATORS 22.5792MHz			
P704-MAIN AMP P.C. BOARD					
CAPACITORS					
CN03	EA22601610	ELECT 22 μ F 16V			
CN04	EJ33505010	ELECT 3.3 μ F 50V			
CN05	DD38104010	CERAMIC 0.1 μ F +80% -20%			
CN06	EJ47601610	ELECT 47 μ F 16V			
CN07	EJ47601610	ELECT 47 μ F 16V			

Ref. No.	Part. No.	Description	Ref. No.	Part. No.	Description
C826	EA10701610	ELECT 100μF 16V	R718	GD05224160	1/6W 220K Ω ±5%
C827	EA10701610	ELECT 100μF 16V	R719	GD05473160	1/6W 47K Ω ±5%
C828	EA10701610	ELECT 100μF 16V	R720	GD05473160	1/6W 47K Ω ±5%
C829	EA10701610	ELECT 100μF 16V	R721	GD05561160	1/6W 560 Ω ±5%
RESISTORS			R722	GD05561160	1/6W 560 Ω ±5%
▲RN01	GG05122160	1/6W 1.2K Ω ±5%	▲R723	GG05561160	1/6W 560 Ω ±5%
▲RN02	GG05122160	1/6W 1.2K Ω ±5%	▲R724	GG05561160	1/6W 560 Ω ±5%
RN03	GD05103160	1/6W 10K Ω ±5%	▲R725	GG05561160	1/6W 560 Ω ±5%
RN04	GD05103160	1/6W 10K Ω ±5%	▲R726	GG05561160	1/6W 560 Ω ±5%
RN05	GD05102160	1/6W 1K Ω ±5%	R727	GD05122160	1/6W 1.2K Ω ±5%
RN06	GD05102160	1/6W 1K Ω ±5%	R728	GD05122160	1/6W 1.2K Ω ±5%
RN07	GD05223160	1/6W 22K Ω ±5%	▲R729	GG05561160	1/6W 560 Ω ±5%
RN08	GD05223160	1/6W 22K Ω ±5%	▲R730	GG05561160	1/6W 560 Ω ±5%
RN10	GD05682160	1/6W 6.8K Ω ±5%	▲R731	GG05561160	1/6W 560 Ω ±5%
RN11	GD05473160	1/6W 47K Ω ±5%	▲R732	GG05561160	1/6W 560 Ω ±5%
RN12	GD05472160	1/6W 4.7K Ω ±5%	R733	GD05104160	1/6W 100K Ω ±5%
RN13	GD05473160	1/6W 47K Ω ±5%	R734	GD05104160	1/6W 100K Ω ±5%
RN14	GD05473160	1/6W 47K Ω ±5%	▲R737	GG05560160	1/6W 56 Ω ±5%
RN15	GD05104160	1/6W 100K Ω ±5%	▲R738	GG05560160	1/6W 56 Ω ±5%
RN16	GD05822160	1/6W 8.2K Ω ±5%	▲R739	GG05560160	1/6W 56 Ω ±5%
RN20	GG05222140	1/6W 2.2K Ω ±5%	▲R740	GG05560160	1/6W 56 Ω ±5%
RN21	GD05473160	1/6W 47K Ω ±5%	R741	GD05682160	1/6W 6.8K Ω ±5%
RN22	GD05333160	1/6W 33K Ω ±5%	R742	GD05682160	1/6W 6.8K Ω ±5%
RN23	GD05683160	1/6W 68K Ω ±5%	R745	GD05272160	1/6W 2.7K Ω ±5%
RN24	GD05683160	1/6W 68K Ω ±5%	R746	GD05272160	1/6W 2.7K Ω ±5%
RN25	GD05683160	1/6W 68K Ω ±5%	R747	GD05333160	1/6W 33K Ω ±5%
RN26	GD05683160	1/6W 68K Ω ±5%	R748	GD05333160	1/6W 33K Ω ±5%
▲RN27	GA05561010	1W 560 Ω ±5%	▲R749	GG05022160	1/6W 2.2 Ω ±5%
▲RN28	GA05561010	1W 560 Ω ±5%	▲R750	GG05022160	1/6W 2.2 Ω ±5%
RN30	GD05103160	1/6W 10K Ω ±5%	▲R751	GG05022160	1/6W 2.2 Ω ±5%
RN31	GD05103160	1/6W 10K Ω ±5%	▲R752	GG05022160	1/6W 2.2 Ω ±5%
RN32	GD05223160	1/6W 22K Ω ±5%	▲R753	GG05181140	1/4W 180 Ω ±5%
RN33	GD05103160	1/6W 10K Ω ±5%	▲R754	GG05181140	1/4W 180 Ω ±5%
RN35	GD05100160	1/6W 10 Ω ±5%	▲R755	GG05100140	1/4W 10 Ω ±5%
▲RN36	GG05222160	1/6W 2.2K Ω ±5%	▲R756	GG05100140	1/4W 10 Ω ±5%
RN41	GD05100160	1/6W 10 Ω ±5%	▲R757	GG05100140	1/4W 10 Ω ±5%
RN42	GD05100160	1/6W 10 Ω ±5%	▲R758	GG05100140	1/4W 10 Ω ±5%
▲RN43	GG05101160	1/6W 100 Ω ±5%	▲R759	BZ10182020	0.18 Ω 5W x 2 ARRAY
▲RN44	GG05101160	1/6W 100 Ω ±5%	▲R760	BZ10182020	0.18 Ω 5W x 2 ARRAY
▲RN45	GG05101160	1/6W 100 Ω ±5%	▲R761	GG05100160	1/6W 10 Ω ±5%
▲RN46	GG05101160	1/6W 100 Ω ±5%	▲R762	GG05100160	1/6W 10 Ω ±5%
▲RN51	GG05122160	1/6W 1.2K Ω ±5%	▲R763	GA05100010	1W 10 Ω ±5%
RN52	GD05103160	1/6W 10K Ω ±5%	▲R764	GA05100010	1W 10 Ω ±5%
RN53	GD05102160	1/6W 1K Ω ±5%	R765	GD05333160	1/6W 33K Ω ±5%
RN54	GD05223160	1/6W 22K Ω ±5%	R766	GD05102160	1/6W 1K Ω ±5%
RN55	GD05683160	1/6W 68K Ω ±5%	R767	GD05221160	1/6W 220 Ω ±5%
RN56	GD05100160	1/6W 10 Ω ±5%	R768	GD05152160	1/6W 1.5K Ω ±5%
▲RN57	GG05101160	1/6W 100 Ω ±5%	R769	GD05561160	1/6W 560 Ω ±5%
▲RN58	GG05101160	1/6W 100 Ω ±5%	R770	GD05151160	1/6W 150 Ω ±5%
RN61	GD05472160	1/6W 4.7K Ω ±5%	R771	GD05152160	1/6W 1.5K Ω ±5%
RN62	GD05472160	1/6W 4.7K Ω ±5%	R772	GD05271160	1/6W 270 Ω ±5%
R701	GD05333160	1/6W 33K Ω ±5%	R773	GD05224160	1/6W 220K Ω ±5%
R702	GD05333160	1/6W 33K Ω ±5%	R774	GD05473160	1/6W 47K Ω ±5%
R703	GD05102160	1/6W 1K Ω ±5%	R775	GD05561160	1/6W 560 Ω ±5%
R704	GD05102160	1/6W 1K Ω ±5%	▲R776	GG05561160	1/6W 560 Ω ±5%
R705	GD05221160	1/6W 220 Ω ±5%	▲R777	GG05561160	1/6W 560 Ω ±5%
R706	GD05221160	1/6W 220 Ω ±5%	R778	GD05122160	1/6W 1.2K Ω ±5%
R707	GD05152160	1/6W 1.5K Ω ±5%	▲R779	GG05561160	1/6W 560 Ω ±5%
R708	GD05152160	1/6W 1.5K Ω ±5%	▲R780	GG05561160	1/6W 560 Ω ±5%
R709	GD05561160	1/6W 560 Ω ±5%	R781	GD05104160	1/6W 100K Ω ±5%
R710	GD05561160	1/6W 560 Ω ±5%	▲R783	GG05560160	1/6W 56 Ω ±5%
R711	GD05151160	1/6W 150 Ω ±5%	▲R784	GG05560160	1/6W 56 Ω ±5%
R712	GD05151160	1/6W 150 Ω ±5%	R785	GD05682160	1/6W 6.8K Ω ±5%
R713	GD05152160	1/6W 1.5K Ω ±5%	R787	GD05272160	1/6W 2.7K Ω ±5%
R714	GD05152160	1/6W 1.5K Ω ±5%	R788	GD05333160	1/6W 33K Ω ±5%
R715	GD05271160	1/6W 270 Ω ±5%	▲R789	GG05022160	1/6W 2.2 Ω ±5%
R716	GD05271160	1/6W 270 Ω ±5%	▲R790	GG05022160	1/6W 2.2 Ω ±5%
R717	GD05224160	1/6W 220K Ω ±5%	▲R791	GG05181140	1/6W 180 Ω ±5%
			▲R792	GG05100140	1/4W 10 Ω ±5%
			▲R793	GG05100140	1/4W 10 Ω ±5%

<u>Ref. No.</u>	<u>Part. No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part. No.</u>	<u>Description</u>
▲R794	BZ10182020	0.18 Ω 5W x 2 ARRAY	▲Q760	HT118592A0	2SA1859 (O,Y)
▲R795	GG05100160	1/6W 10 Ω ±5%	▲Q761	HT332812A0	2SC3281 (R, O)
▲R796	GA05100010	1W 10 Ω ±5%	▲Q762	HT113022A0	2SA1302 (R, O)
R797	GD05102160	1/6W 1K Ω ±5%			DIODES
R798	GD05102160	1/6W 1K Ω ±5%	DN01	HD20002710	1D3 1A/200V
R799	GD05102160	1/6W 1K Ω ±5%	DN02	HD20002710	1D3 1A/200V
U700	GG05010140	1/4W 1 Ω ±5%	DN03	HD20002710	1D3 1A/200V
U701	GG05010140	1/4W 1 Ω ±5%	DN04	HD20002710	1D3 1A/200V
U702	GG05010140	1/4W 1 Ω ±5%	DN07	HD20027010	HSS81TD
U703	GG05010140	1/4W 1 Ω ±5%	DN08	HD20027010	HSS81TD
		CONTROLS	DN09	HD20002710	1D3 1A/200V
RN63	RA01010780	TRIMMING, 100 Ω	DN51	HD20002710	1D3 1A/200V
RN64	RA01010780	TRIMMING, 100 Ω	DN52	HD20027010	HSS81TD
RN70	RA01010780	TRIMMING, 100 Ω			
R743	RA02220780	TRIMMING, 2.2K Ω	D701	HD20002000	1SS176
R744	RA02220780	TRIMMING, 2.2K Ω	D702	HD20002000	1SS176
R786	RA02220780	TRIMMING, 2.2K Ω	D703	HD20002000	1SS176
		INTEGRATED CIRCUIT	D704	HD20002000	1SS176
▲Q801	HC38915090	IC NJM7815FA	D705	HD20027010	HSS81TD
▲Q802	HC39915090	IC NJM7915FA	D706	HD20027010	HSS81TD
▲Q803	HC38905090	IC NJM7805FA	D707	HD20027010	HSS81TD
▲Q804	HC39905090	IC NJM7905FA	D708	HD20027010	HSS81TD
▲Q805	HC38905090	IC NJM7805FA	D709	HD30911000	ZENER, 9.1V
		TRANSISTORS	D710	HD30911000	ZENER, 9.1V
QN01	HT322402A0	2SC2240 (GR, BL)	D711	HD30911000	ZENER, 9.1V
QN02	HT322402A0	2SC2240 (GR, BL)	D712	HD30911000	ZENER, 9.1V
QN03	HT109702A0	2SA970 (GR, BL)	D751	HD20002000	1SS176
QN07	HT10001000	2SA608SP	D752	HD20002000	1SS176
QN08	HT316272B0	2SC1627 (O, Y)	D753	HD20027010	HSS81TD
▲QN51	HT322402A0	2SC2240 (GR, BL)	D754	HD20027010	HSS81TD
Q701	HT109702A0	2SA970 (GR, BL)	D755	HD30911000	ZENER, 9.1V
Q702	HT109702A0	2SA970 (GR, BL)	D756	HD30911000	ZENER, 9.1V
Q703	HT109702A0	2SA970 (GR, BL)	▲D801	HE20012290	D5FB20
Q704	HT109702A0	2SA970 (GR, BL)	▲D802	HE20012290	D5FB20
Q705	HT109702A0	2SA970 (GR, BL)	▲D803	HE20011290	S2VB20
Q706	HT109702A0	2SA970 (GR, BL)	▲D804	HE20011290	S2VB20
Q707	HT327052A0	2SC2705 (O, Y)	D805	HD20002710	1D3 1A/200V
Q708	HT327052A0	2SC2705 (O, Y)	D806	HD20002710	1D3 1A/200V
Q709	HT327052A0	2SC2705 (O, Y)	D807	HD20002710	1D3 1A/200V
Q710	HT327052A0	2SC2705 (O, Y)	D808	HD20002710	1D3 1A/200V
Q711	HT113602A0	2SA1360 (O, Y)	D809	HD20002710	1D3 1A/200V
Q712	HT113602A0	2SA1360 (O, Y)			COILS
Q713	HT334232A0	2SC3423 (O, Y)	L701	ML08010030	AIR, SPK CHOCK
Q714	HT334232A0	2SC3423 (O, Y)	L702	ML08010030	AIR, SPK CHOCK
Q715	HT334191Y0	2SC3419Y	L751	ML08010030	AIR, SPK CHOCK
Q716	HT334191Y0	2SC3419Y			MISCELLANEOUS
Q717	HT348821A0	2SC4883 (O, Y)	JN01	YP06013130	PLUG, 13P
Q718	HT348821A0	2SC4883 (O, Y)			
Q719	HT118592A0	2SA1859 (O,Y)	J701	YP06004570	PLUG, 13P
Q720	HT118592A0	2SA1859 (O,Y)	J702	YP06019700	PLUG, 20P
Q721	HT332812A0	2SC3281 (R, O)	J706	YP06010450	PLUG, 5P
Q722	HT332812A0	2SC3281 (R, O)	J707	YL01010240	TERMINAL, GND
Q723	HT113022A0	2SA1302 (R, O)	J708	YL01010240	TERMINAL, GND
Q724	HT113022A0	2SA1302 (R, O)	J709	YL01010240	TERMINAL, GND
Q751	HT109702A0	2SA970 (GR, BL)	J710	YL01010240	TERMINAL, GND
Q752	HT109702A0	2SA970 (GR, BL)	J711	YL01010240	TERMINAL, GND
Q753	HT109702A0	2SA970 (GR, BL)	J712	YL01010240	TERMINAL, GND
Q754	HT327052A0	2SC2705 (O, Y)	J801	YP06010950	PLUG, 5P
Q755	HT327052A0	2SC2705 (O, Y)	J802	YP06003690	PLUG, 6P
Q756	HT113602A0	2SA1360 (O, Y)	J803	YP06010950	PLUG, 5P
Q757	HT334232A0	2SC3423 (O, Y)	J804	YP06003830	PLUG, 3P
Q758	HT334191Y0	2SC3419Y			
▲Q759	HT348821A0	2SC4883 (O, Y)	LN01	LY20180020	RELAY
			LN02	LY20180020	RELAY
			LN03	LY20240410	RELAY
			LN51	LY20180020	RELAY

Ref. No. Part. No. Description

P754-SPK TERMINAL P.C. BOARD

CAPACITORS

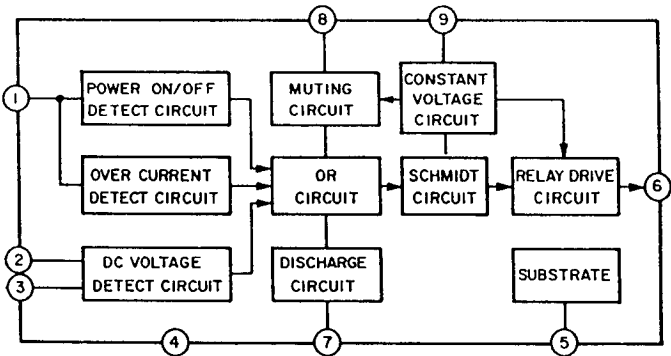
C727	DK18103310	CERAMIC	0.01μF	+80% -20%
C728	DK18103310	CERAMIC	0.01μF	+80% -20%
C729	DK18103310	CERAMIC	0.01μF	+80% -20%
C730	DK18103310	CERAMIC	0.01μF	+80% -20%
C731	DK18223310	CERAMIC	0.022μF	+80% -20%
C732	DK18223310	CERAMIC	0.022μF	+80% -20%
C733	DK18103310	CERAMIC	0.01μF	+80% -20%
C734	DK18103310	CERAMIC	0.01μF	+80% -20%
C764	DK18103310	CERAMIC	0.01μF	+80% -20%
C765	DK18103310	CERAMIC	0.01μF	+80% -20%

MISCELLANEOUS

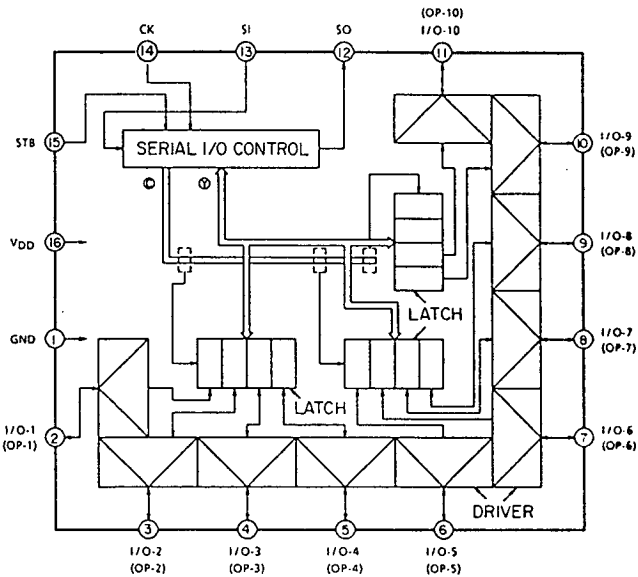
J703	YJ06020800	JACK, 20P
J704	YT01080120	TERMINAL, SPK 8P
J751	YT01020220	TERMINAL, SPK2P

IC BLOCK DIAGRAMS

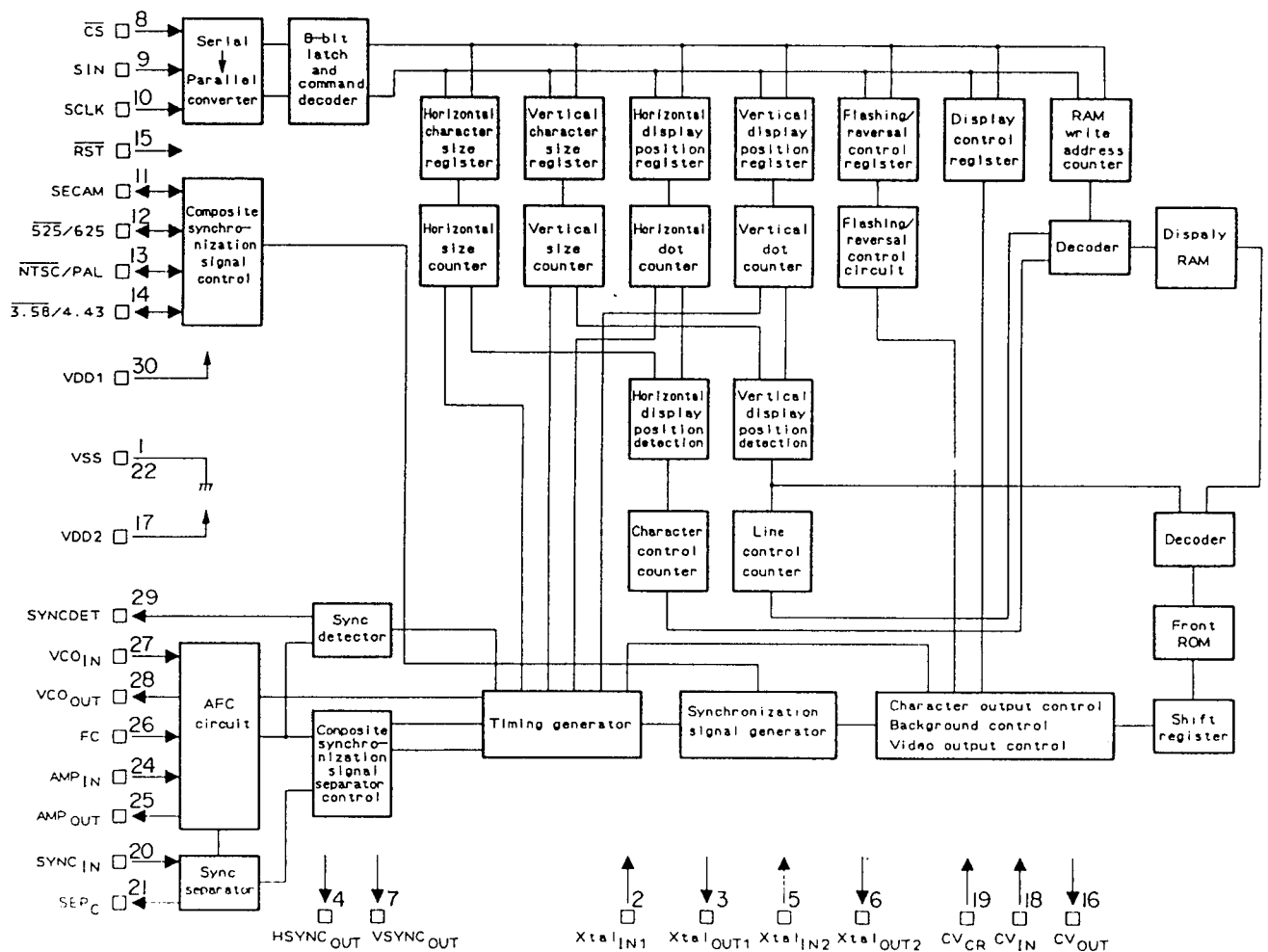
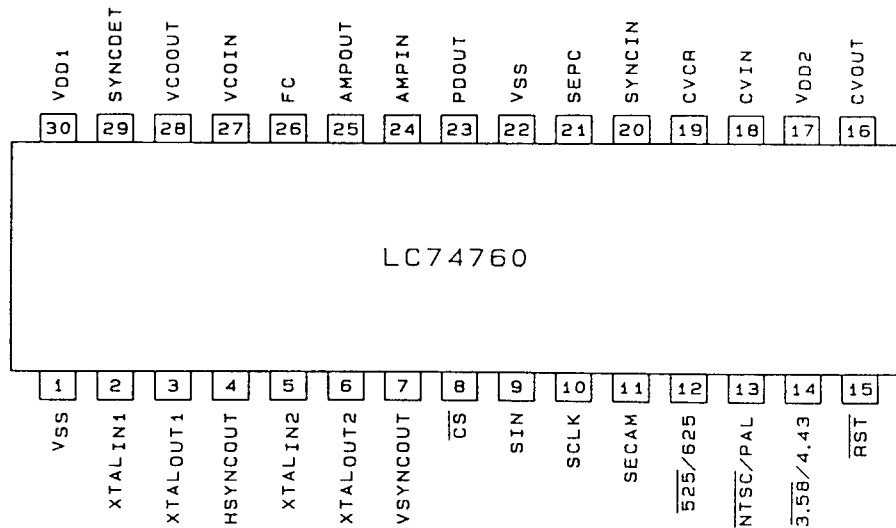
QN04 : TA7317P OVER LOAD PROTECTOR



QY10 : TC9173 QY11 : TC9174
PORT EXPANDER



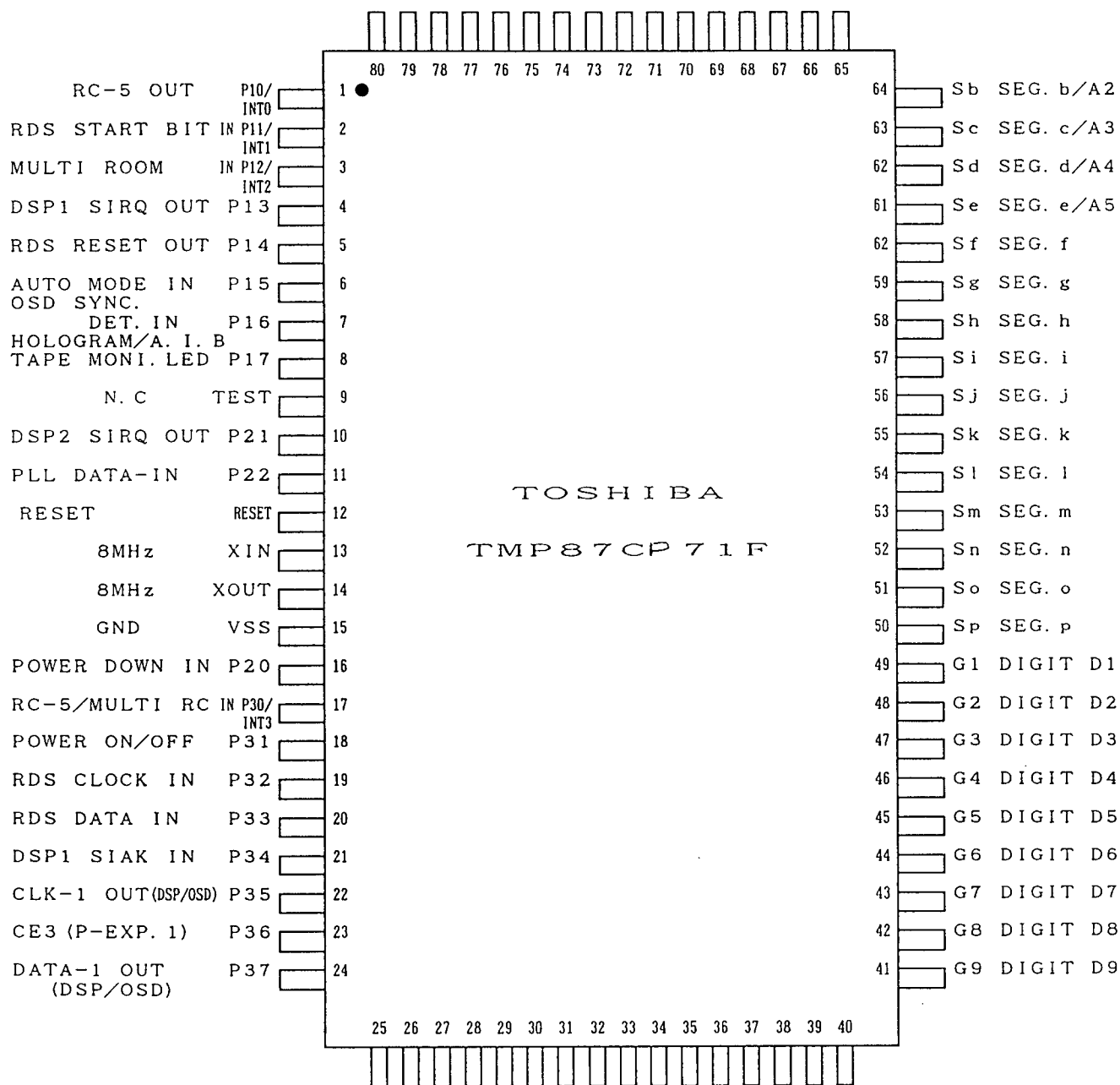
QX60 : LC74760-9004
OSD LSI



QU01 : TMP87CP71F

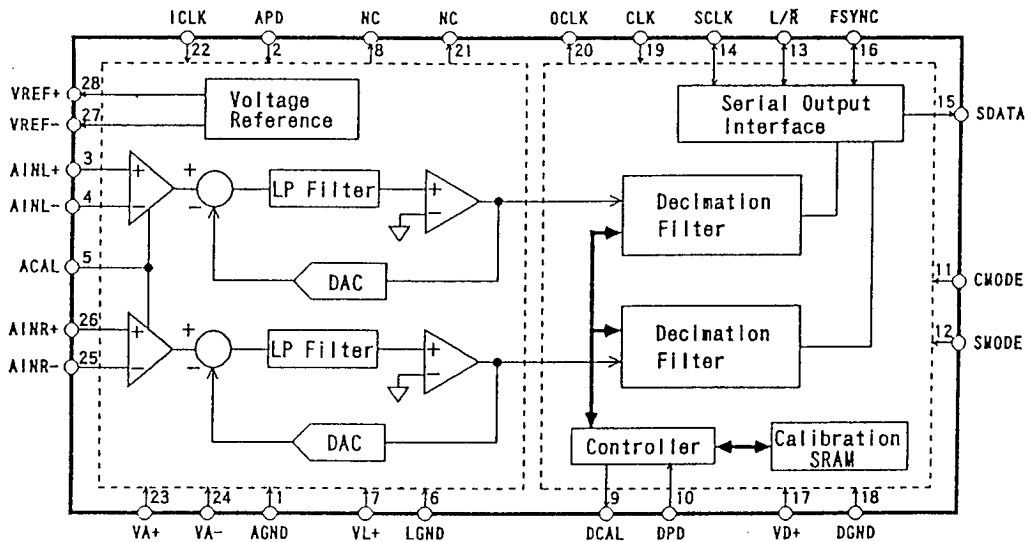
KEY IN CINI
KEY IN CINO
SD IN
EMPHASIS IN
DIG. IR ERROR IN
SIG. STR. IN
PLS. ENC (A) IN
PUS. ENC (B) IN

K5 KEY IN (K5)
K4 KEY IN (K4)
K3 KEY IN (K3)
K2 KEY IN (K2)
K1 KEY IN (K1)
K0 KEY IN (K0)
V_{kk} -30V
S_a SEGMENT a/A1

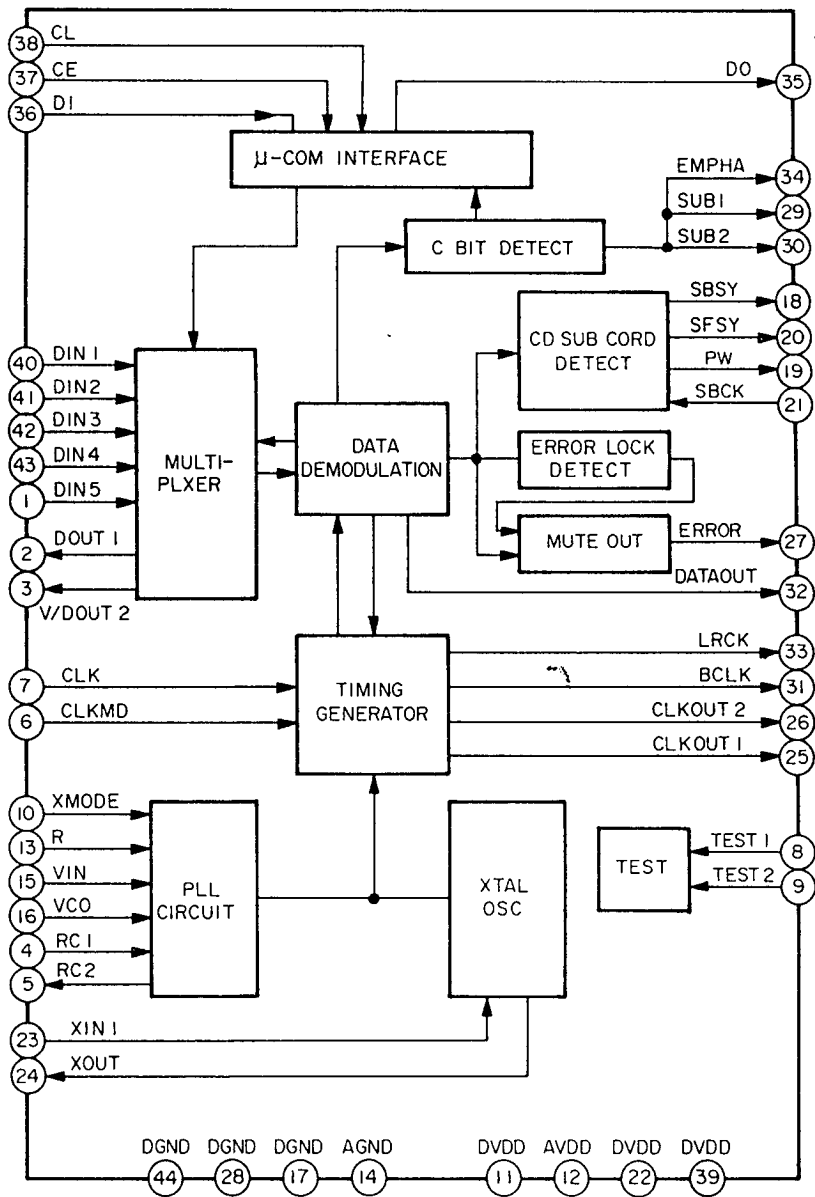


CE4 (PORT EXP. 2) P00
DSP2 SIAK IN P01
PORT EXP1 DATA IN P02
CLK-0 OUT (PLL/VOL) P03
DATA-0 OUT P04
CE1 (PLL, LC7821ETC) P05
CE2 (OSD) P06
VOL. 1-CLK (FRONT) P07
G10 DIG. D10
G11 DIG. D11
G12 DIG. D12
P63 VOL. 3-CLK (CNT/SUB-WF)
P62 VOL. 2-CLK (SURRE.)
P61 IR SWITCH OUT
P60 STB4 (VOL/MULTI)
VDD +5.5V

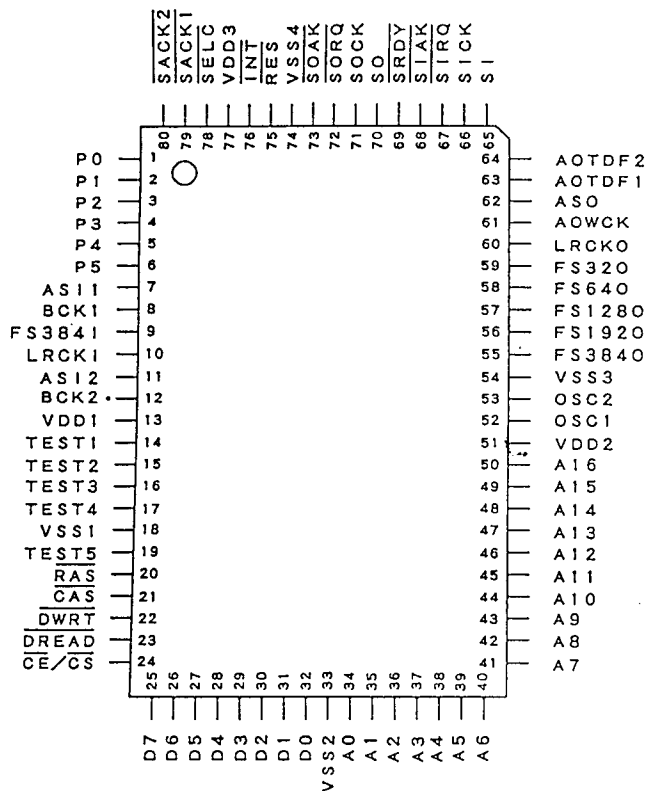
Q608 : AK5389
ANALOGUE DIGITAL CONVERTER



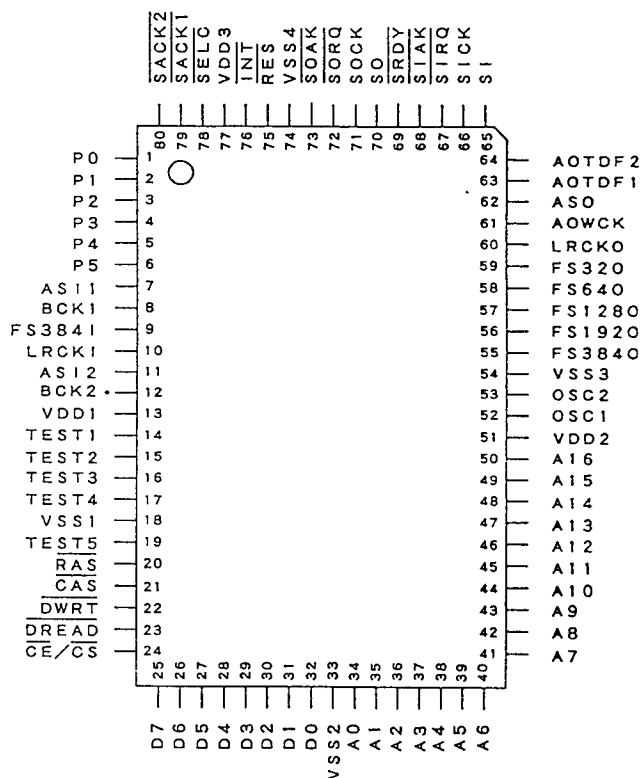
Q619 : LC8903Q
DIGITAL AUDIO INTERFACE



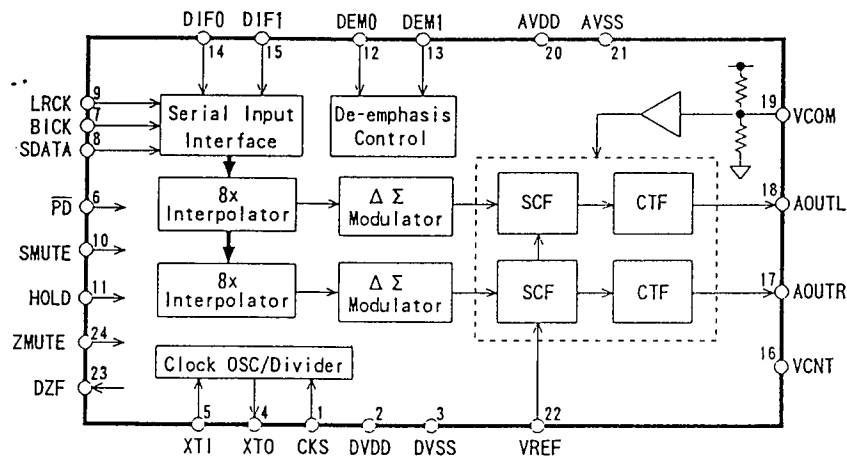
Q601 : LC83016JE
DIGITAL SIGNAL PROCESSOR

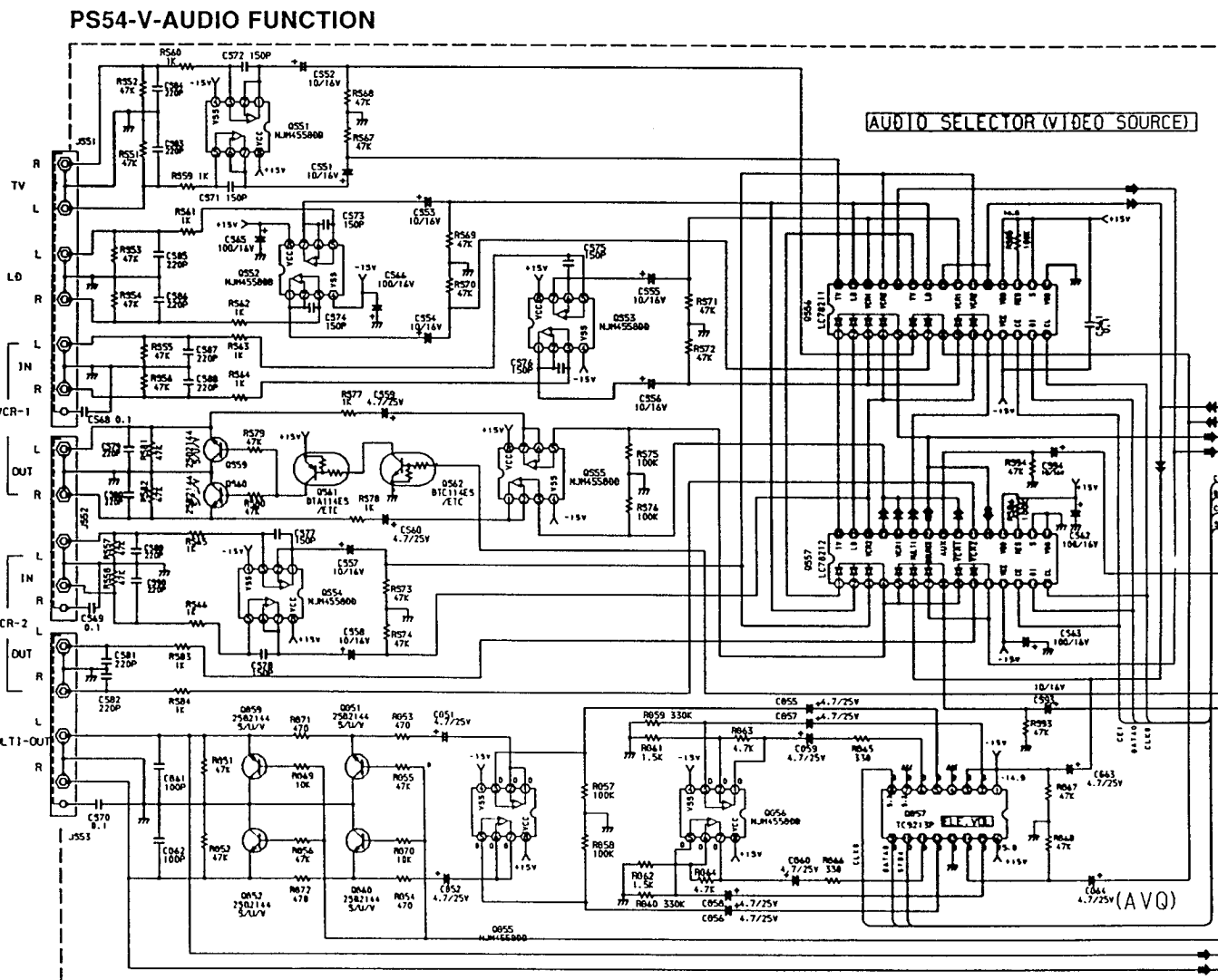
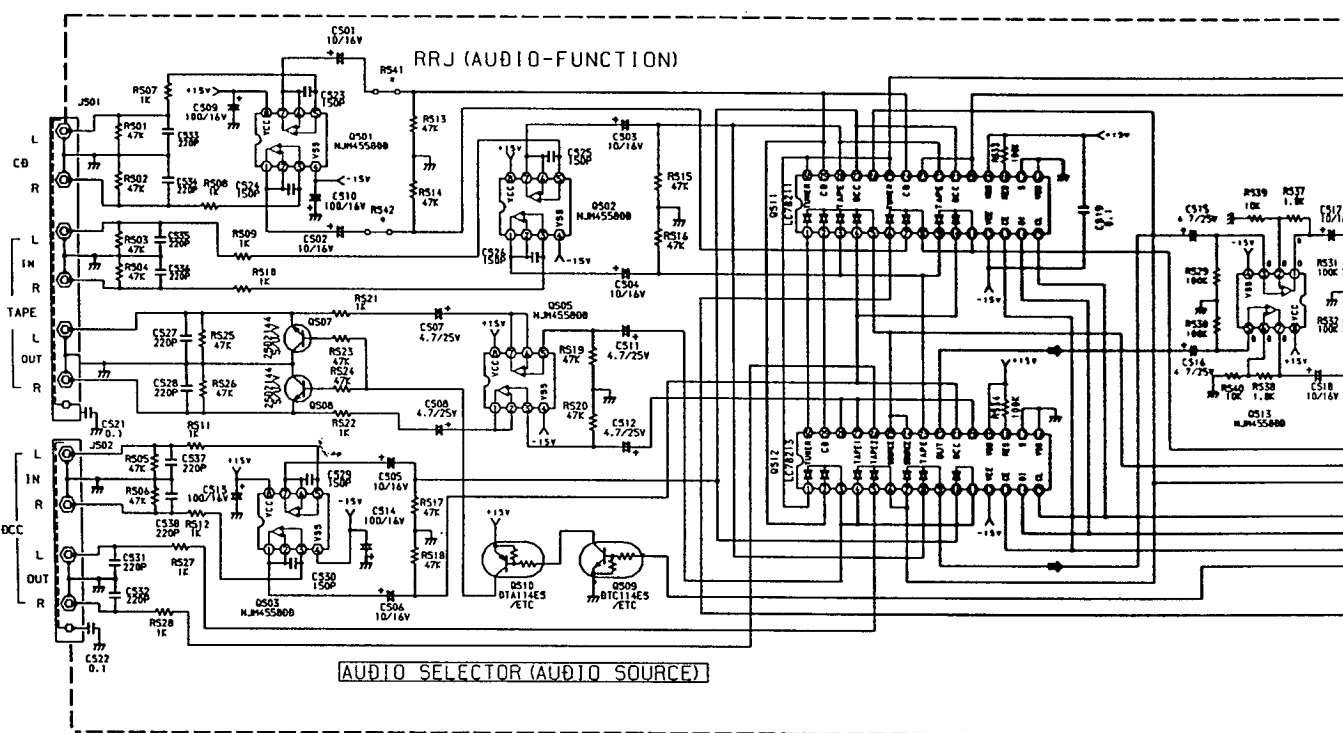


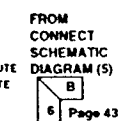
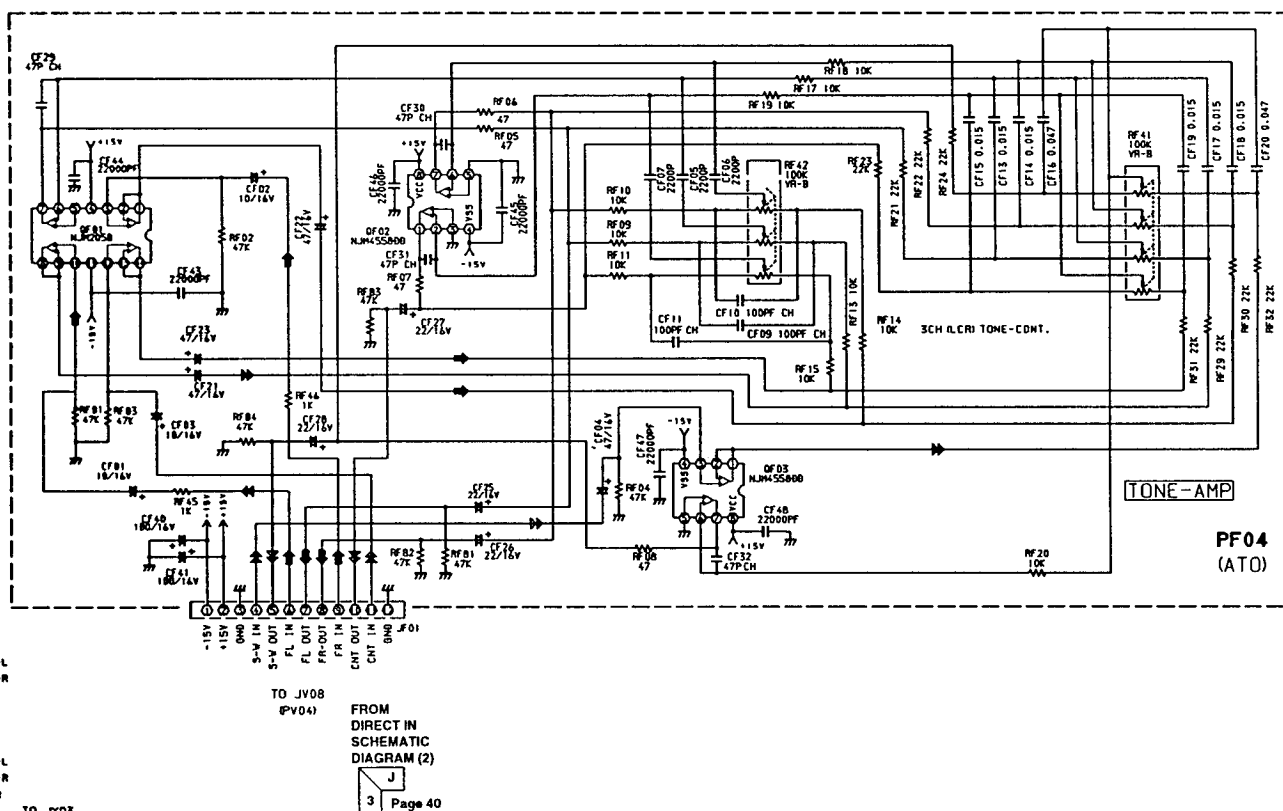
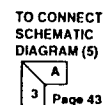
Q602 : LC83017JE
DIGITAL SIGNAL PROCESSOR



Q605 ~ Q607 : AK4320
DIGITAL ANALOGUE CONVERTER

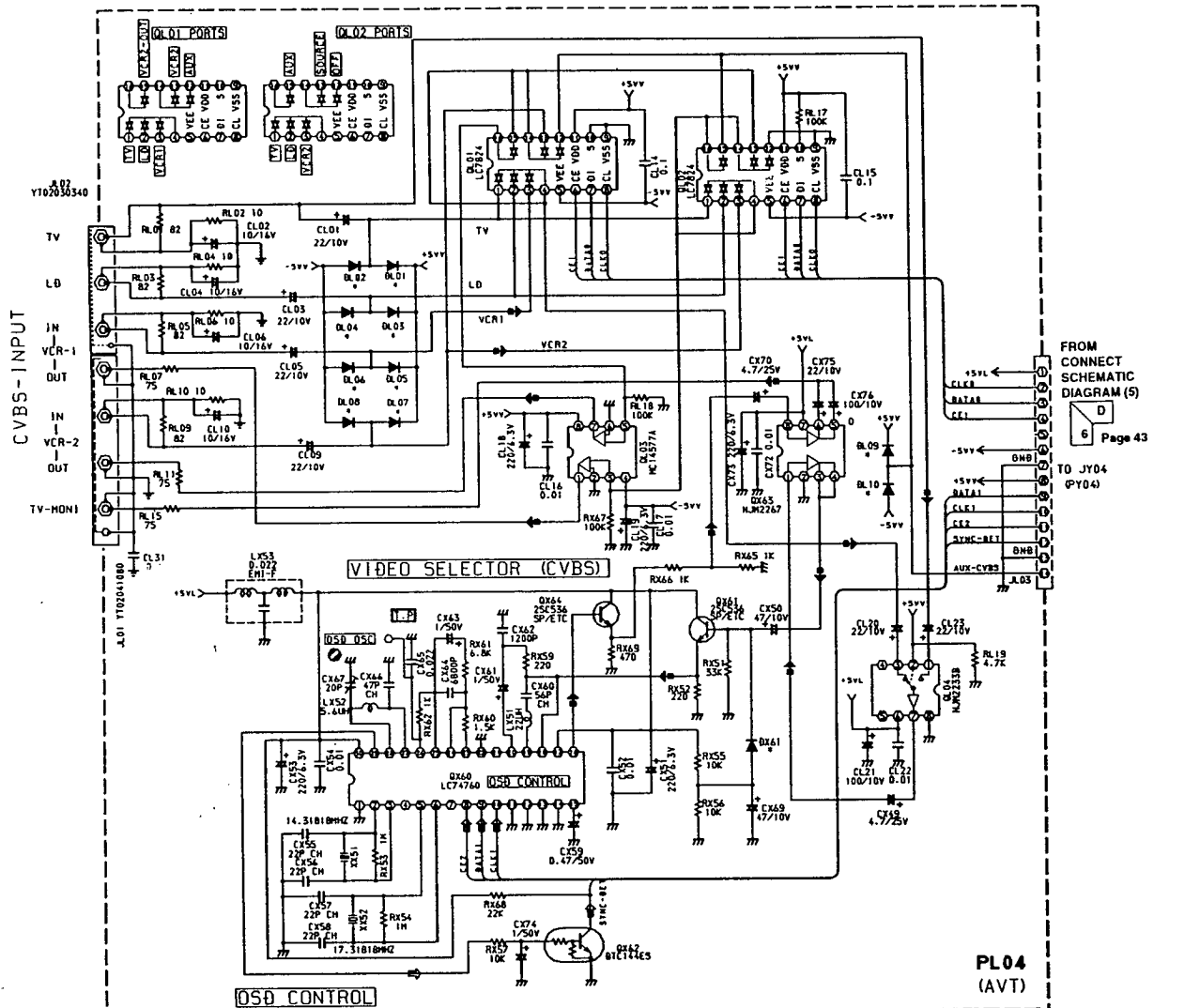




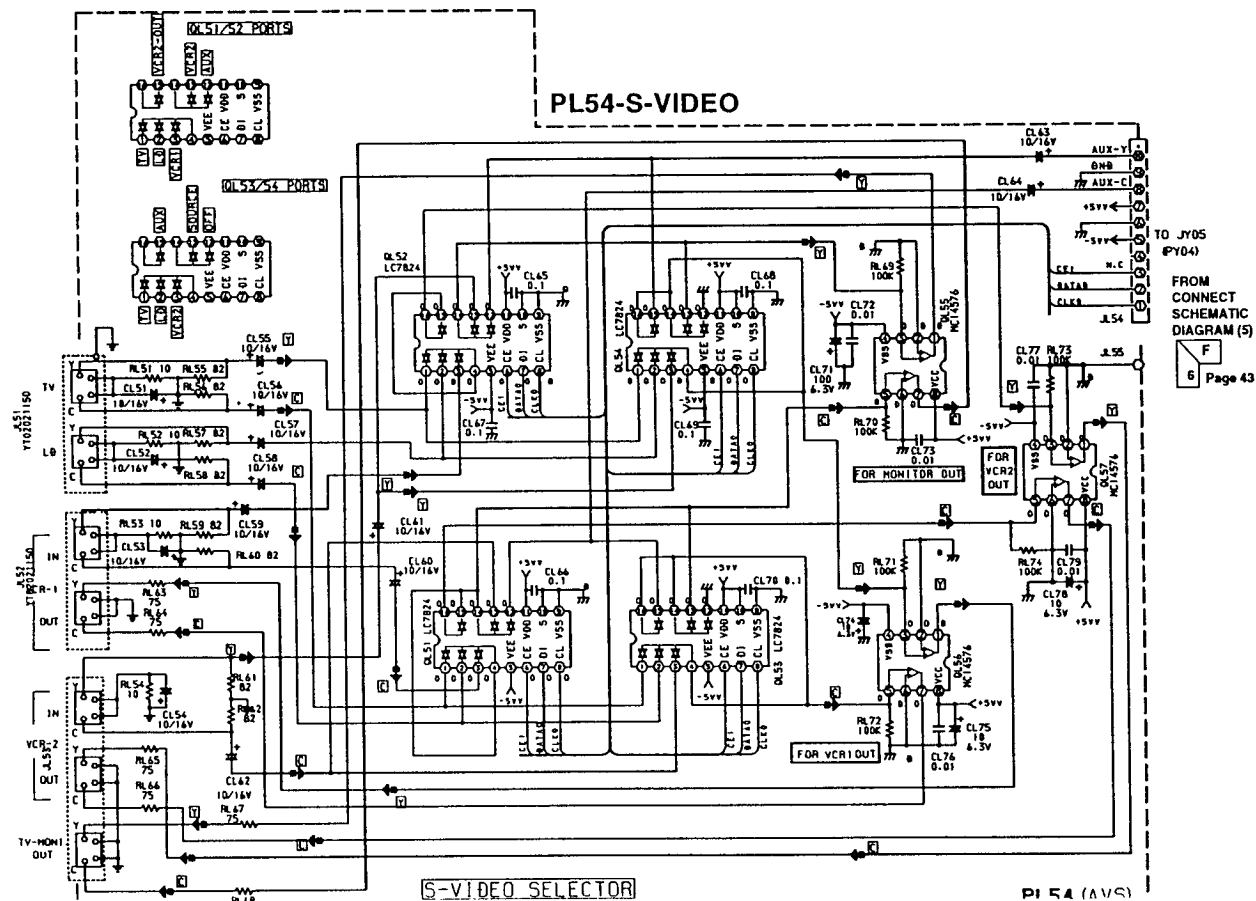


SCHEMATIC DIAGRAM (2)

PL04-VIDEO SELECTOR



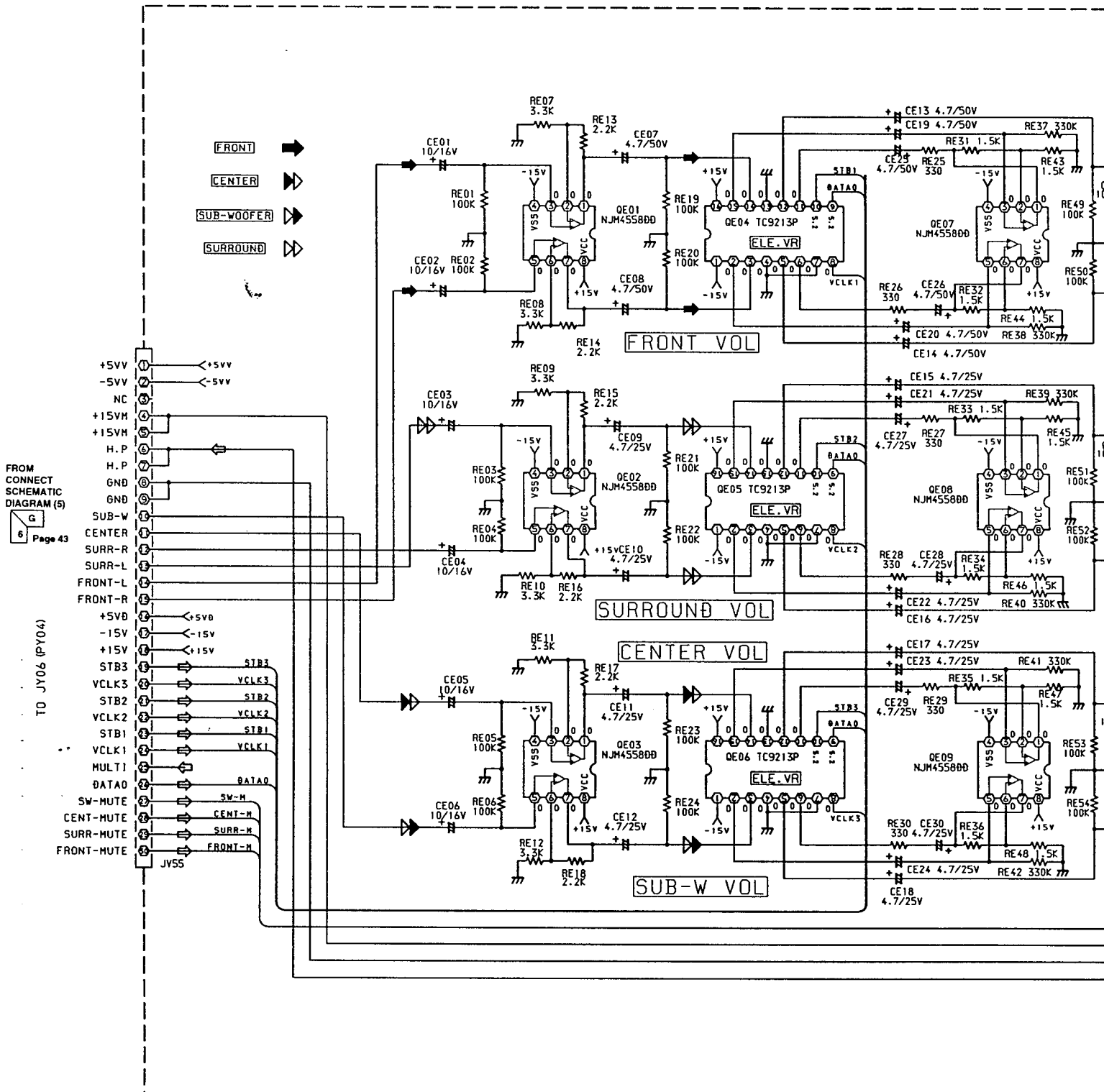
PL54-S-VIDEO

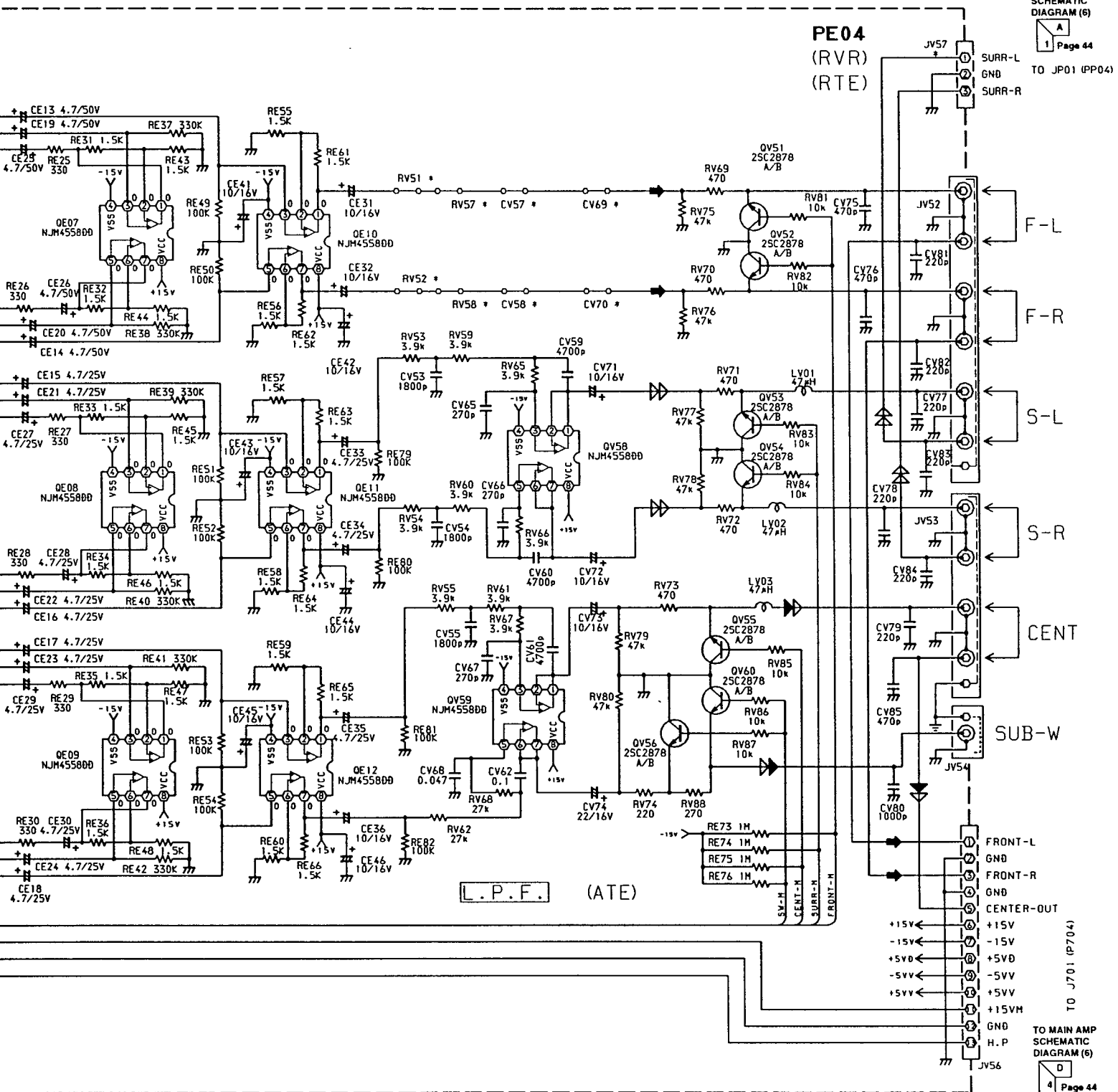


PV04
(ATF)

SCHEMATIC DIAGRAM (3)

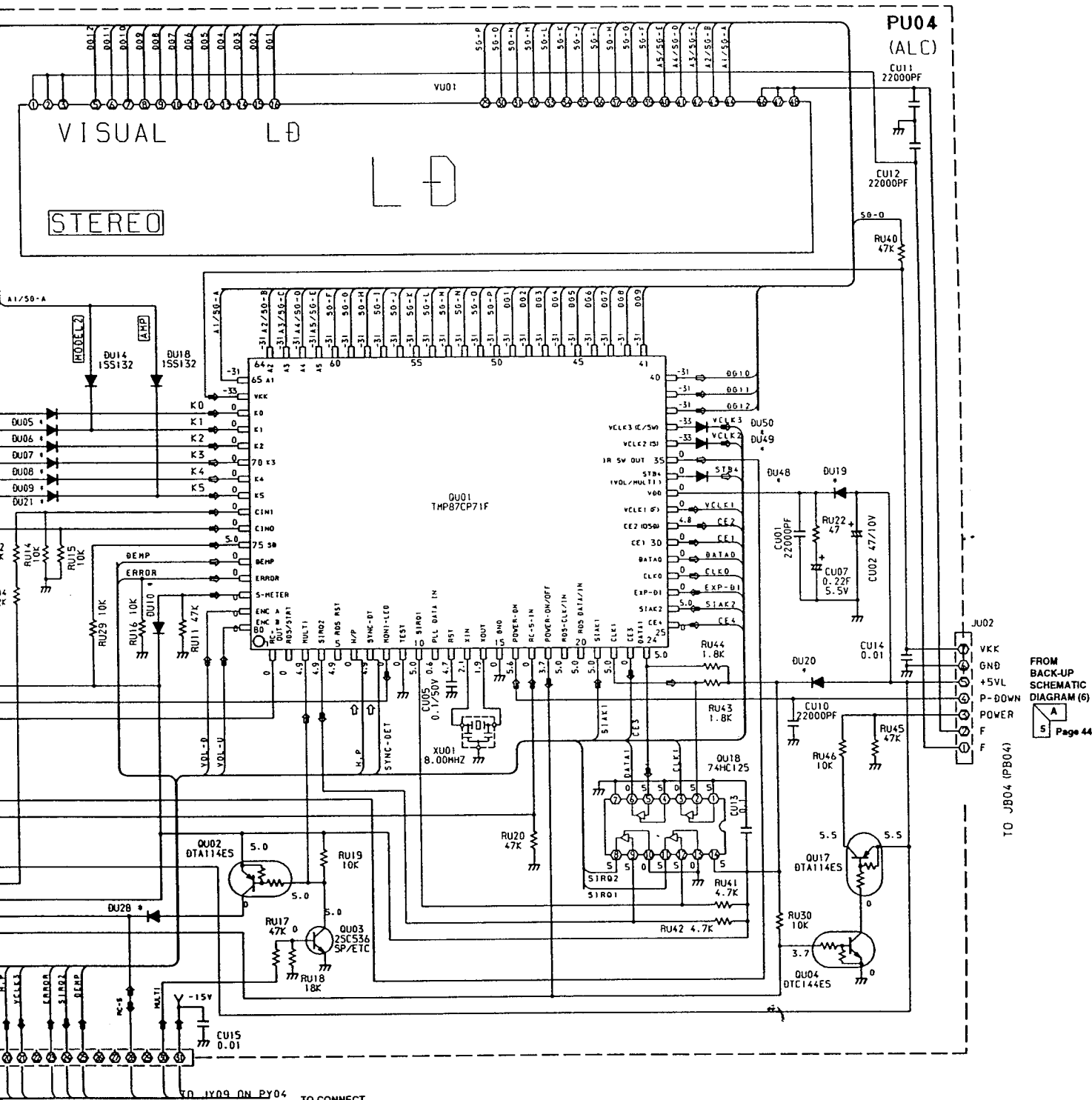
PE04-ELE. VOL





PU04-FRONT





FROM BACK-UP
SCHEMATIC
DIAGRAM (6)

Page 44

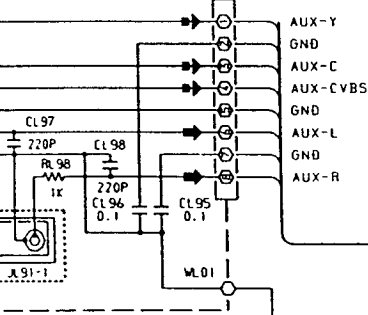
TO JB04 (PB04)

TO CONNECT
SCHEMATIC
DIAGRAM (5)

Page 43

PL94-AUX IN

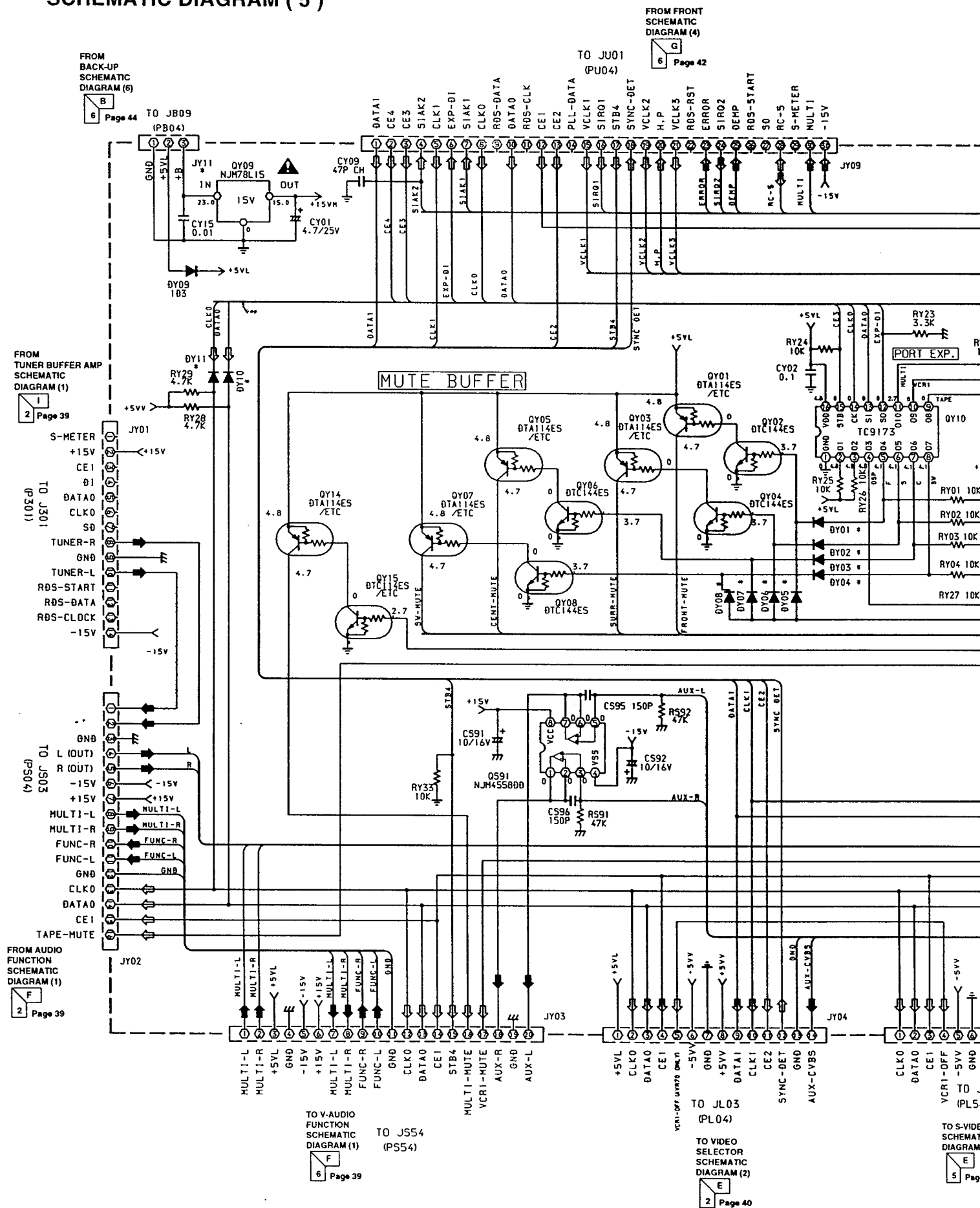
PL94 (ALD)



TO CONNECT
SCHEMATIC
DIAGRAM (5)

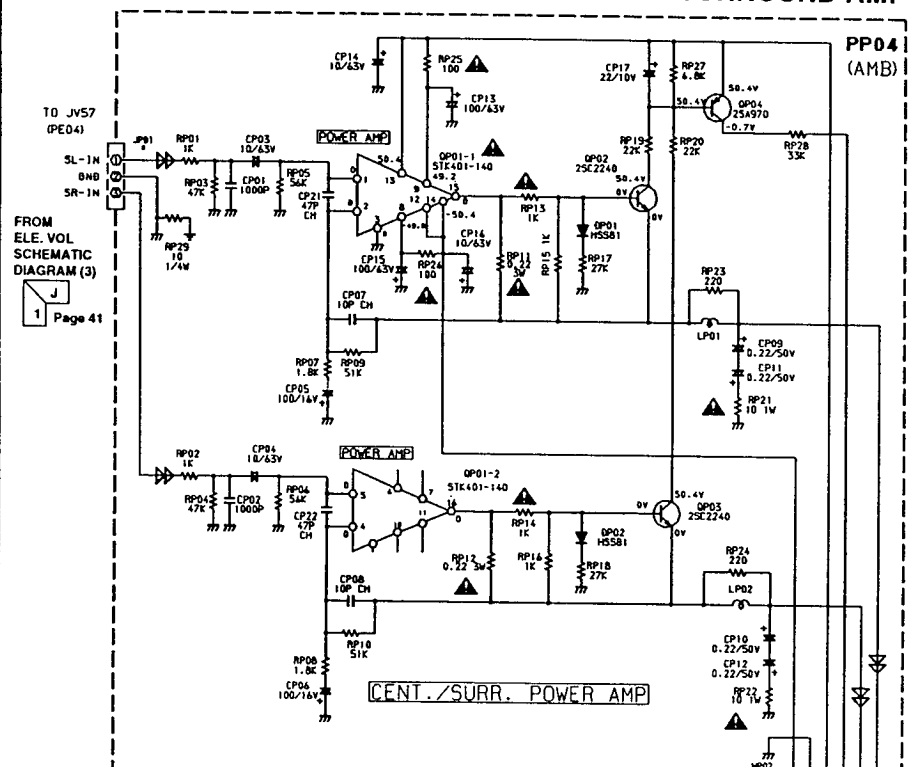
Page 43

SCHEMATIC DIAGRAM (5)

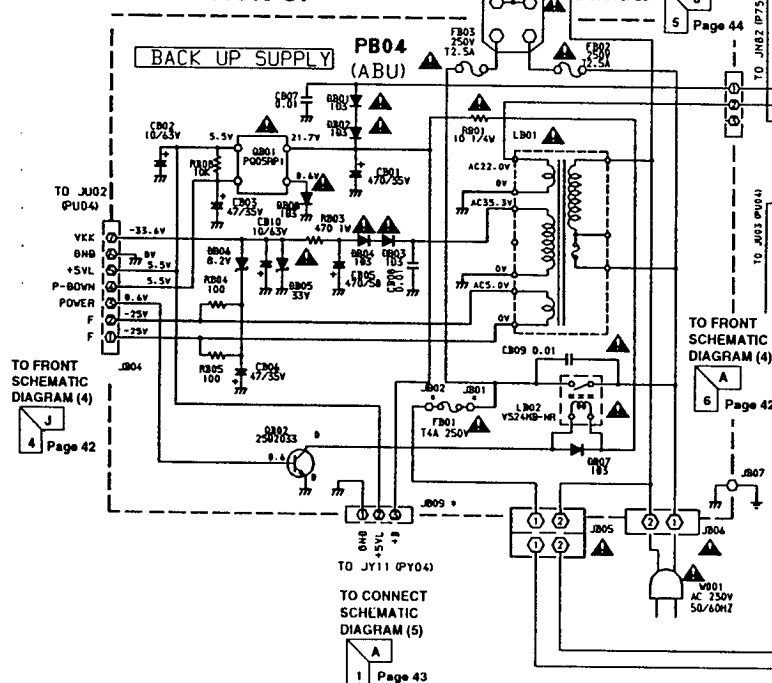


SCHEMATIC DIAGRAM (6)

PP04-SURROUND AMP



PB04-BACK-UP



PU94-POWER SW

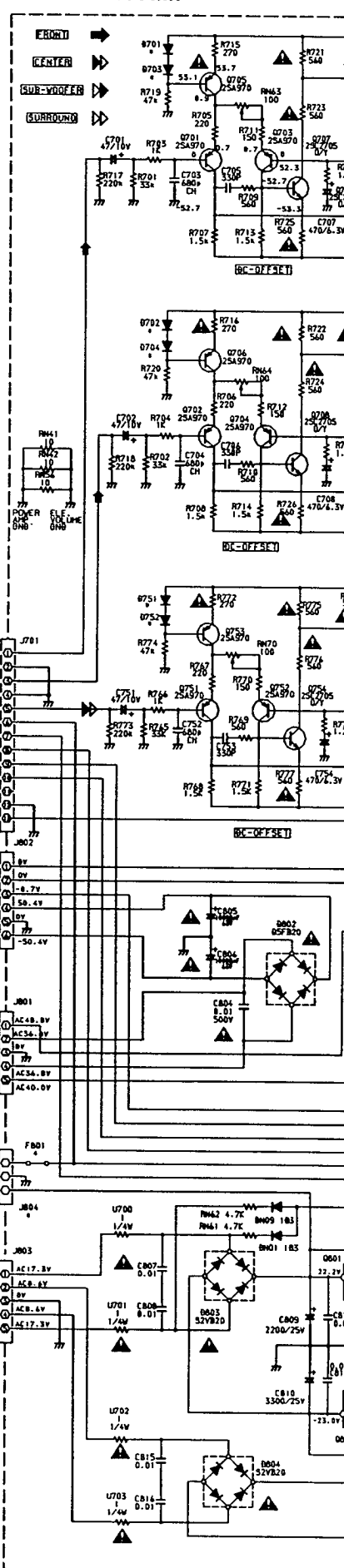
PU94 POWER SW. (APP)

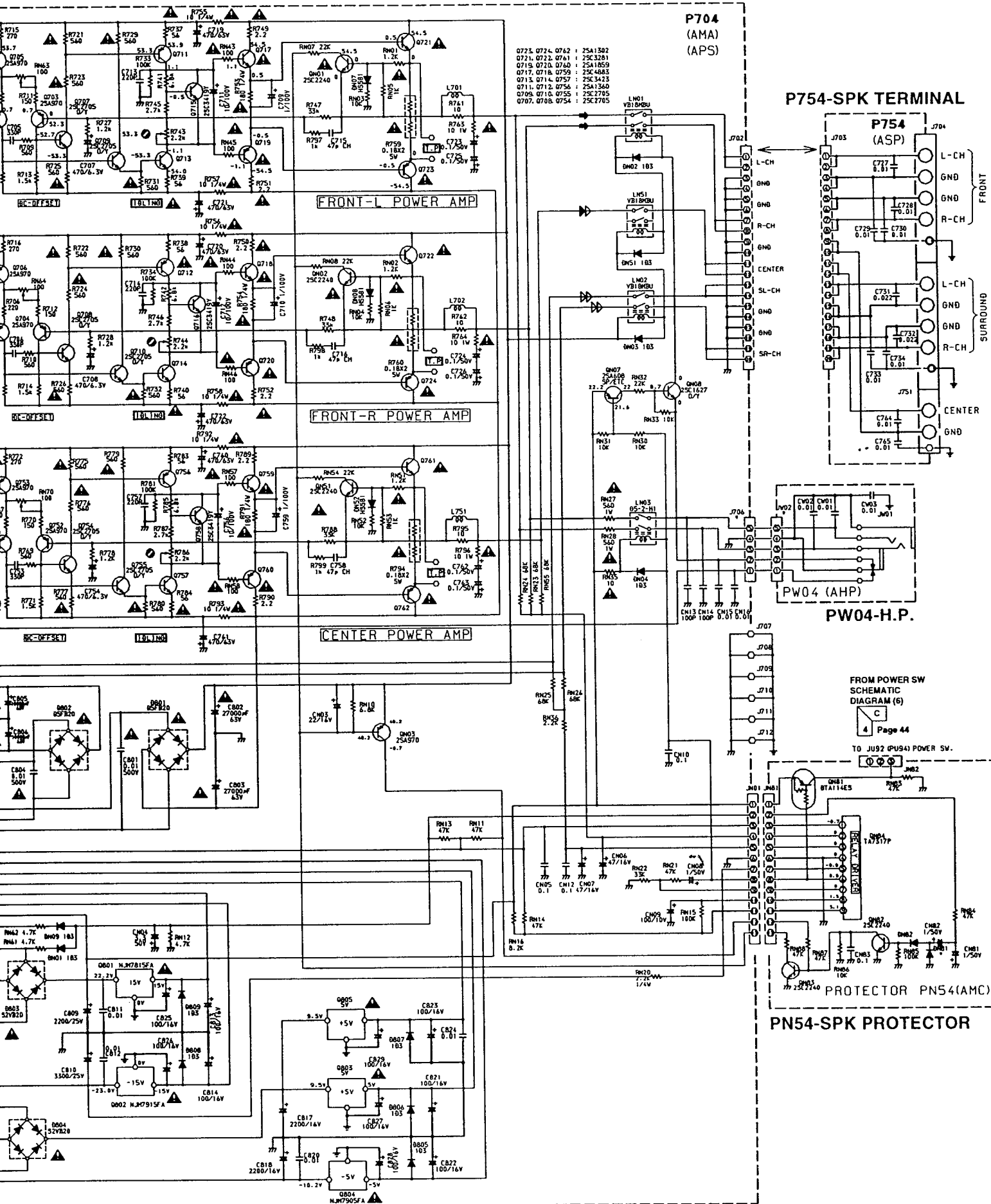
TO FRONT SCHEMATIC DIAGRAM (4)

TO JY11 (PY04)

TO CONNECT SCHEMATIC DIAGRAM (5)

P704-MAIN AMP

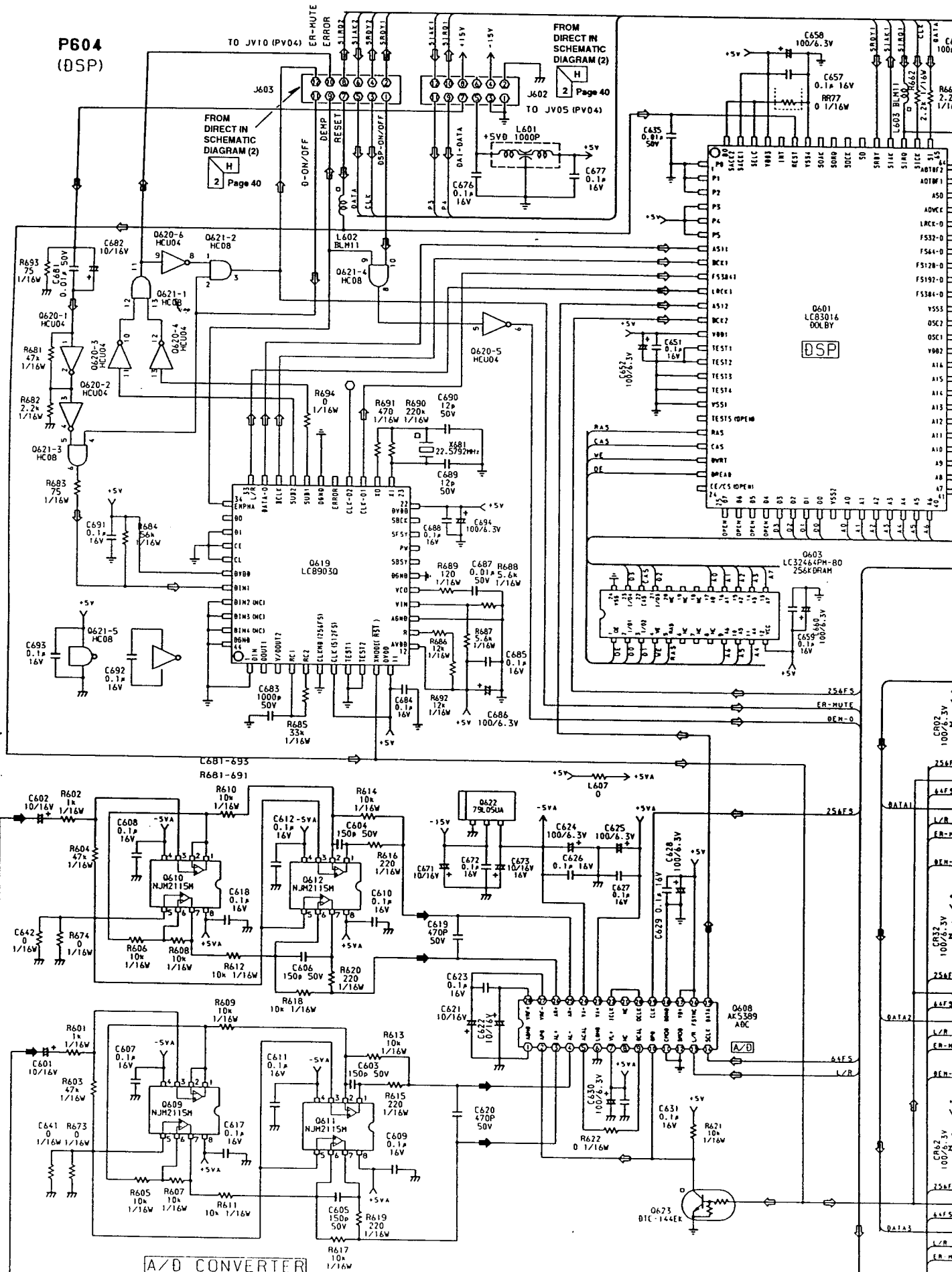


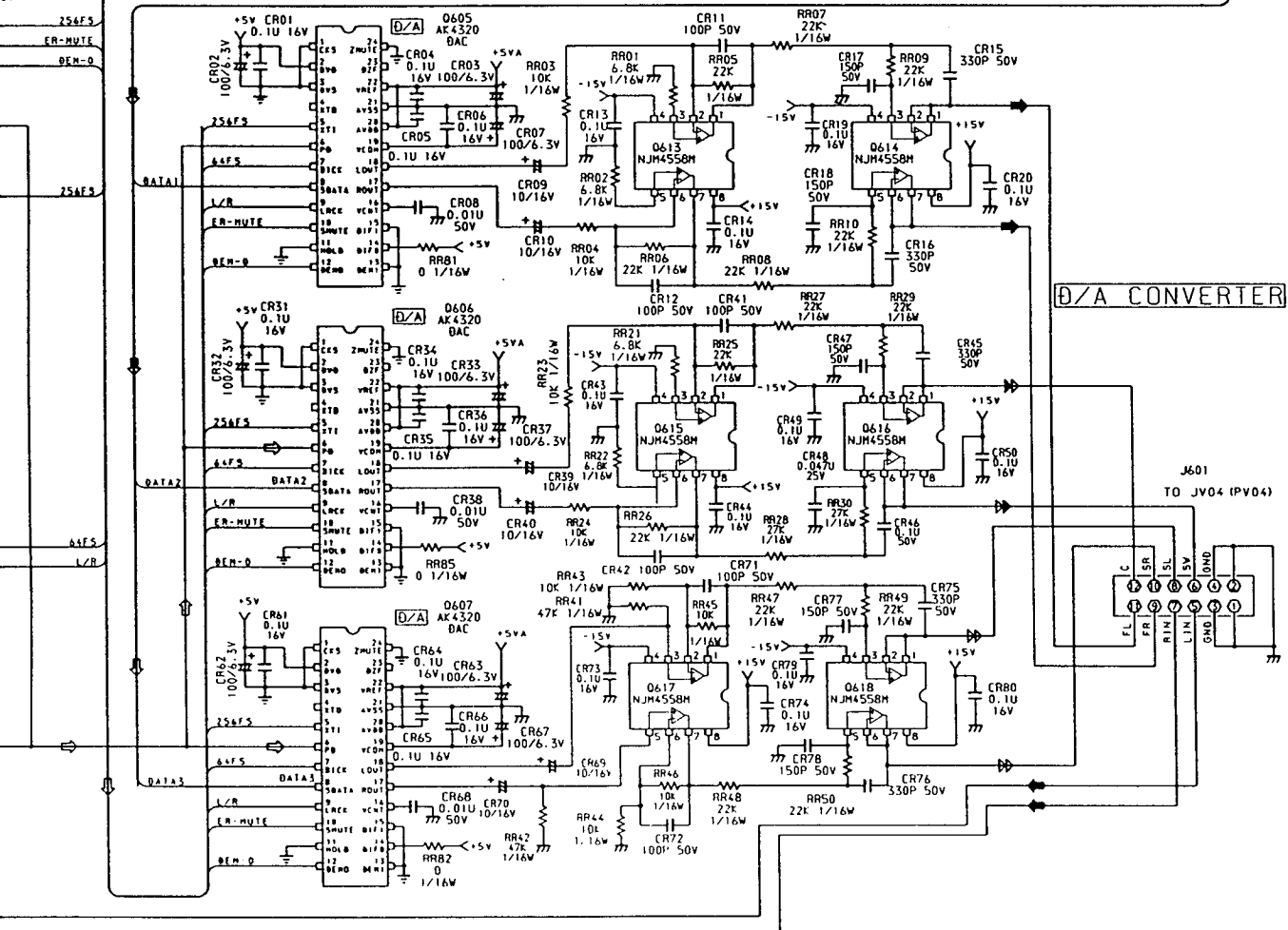
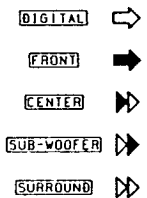


SCHEMATIC DIAGRAM (8)

P604-THX PRO-LOGIC DSP

P604
(DSP)





TO
DIRECT IN
SCHEMATIC
DIAGRAM (2)



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WIRING DIAGRAM

