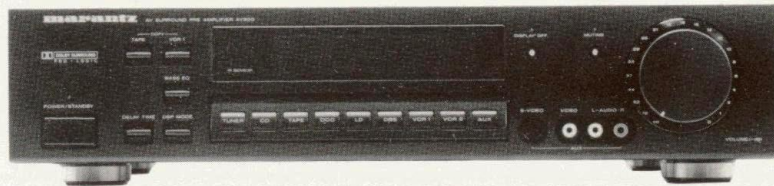


# Service Manual

74 AV500/01B

AV Surround pre amplifier



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# marantz®

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## model AV500

First issue : 1993  
4822 725 51026  
PCS 70 630

# MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound. Only **original MARANTZ parts** can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available at our National Marantz Subsidiary or Agent.

MARANTZ EUROPE B.V.  
P.O. Box 80002  
Building SFF 2  
5600 JB Eindhoven  
The Netherlands  
Phone : +31-40-732241  
Fax : +31-40-735578

## ORDERING PARTS

Parts can be ordered either by mail or by telex. In both cases, the correct part number has to be specified. The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which the part is required
5. Way of shipment
6. Signature: any order form or telex must be signed, otherwise such part order will be considered as null and void.

## ADDRESSES

<b>AUSTRALIA</b> MARANTZ AUSTRALIA Figtree Drive Australia Centre Homebush, NSW 2140 AUSTRALIA	<b>FINLAND</b> MARANTZ Kuortanegatan 1 00520 Helsingfors 52 Finland	<b>ITALY</b> MARANTZ ITALIANA SPA Piazza IV Novembre 3 20124 Milano Italy	<b>NORWAY</b> MARANTZ Postboks 7034 Assiden 3007 Drammen Norway	<b>SPAIN</b> MARANTZ SPAIN Martinez Villergas 2 Apartado 2065 Madrid 28027 Spain
<b>AUSTRIA</b> MARANTZ Hietzinger Kai 137a 1130 Wien Austria	<b>FRANCE</b> MARANTZ FRANCE 4 Rue Bernard Palissy 92600 Asnières France	<b>JAPAN</b> MARANTZ JAPAN INC. 35-1, 7-chome, Sagamiono Sagamihara-shi, Kanagawa Japan	<b>PORTUGAL</b> COREL Av. da Liberdade 211-2 Esq. 1200 Lisboa Portugal	<b>SWEDEN</b> MARANTZ Box 1324 17125 Solna Sweden
<b>BELGIUM</b> MARANTZ EUROPE B.V. Div. Benelux P.O.Box 80002 Building SFF 2 5600 JB Eindhoven The Netherlands	<b>GERMANY</b> MARANTZ GERMANY GmbH Kleine Heide 12 Postfach 4802 Halle-Westfalen Germany	<b>KUWAIT</b> AL ALAMIAH ELECTRONICS P.O.Box 8196 Salmiah 22052 Kuwait	<b>SAUDI ARABIA</b> AL ALAMIAH ELECTRONICS P.O.Box 5954 University Street Riyadh 11432 Saudi Arabia	<b>SWITZERLAND</b> MARANTZ SWITZERLAND Postfach 8010 Zürich-Müllingen Switzerland
<b>CHILE</b> MARANTZ DIVISION OF PHILIPS S.A. Av.Santa Maria 0760 Casilla 2687 Santiago Chile	<b>GREAT BRITAIN</b> MARANTZ HI-FI UK Ltd. Kingsbridge House Padbury Oaks 575-583 Bath Road Longford Middlesex UB7 0EH, U.K.	<b>NETHERLANDS</b> MARANTZ EUROPE B.V. Div. Benelux P.O.Box 80002 Building SFF 2 5600 JB Eindhoven The Netherlands	<b>SOUTH AFRICA</b> MARANTZ S.A. 10 Bond Street Randburg 2194 P.O. Box 7703 Johannesburg 2000 South Africa	<b>TRADING</b> MARANTZ TRADING P.O.Box 20008 Building SFF 2 5600 JB Eindhoven The Netherlands
<b>DENMARK</b> MARANTZ Horsvinget 5 2630 Tastrup Denmark	<b>GREECE</b> ADAMCO ELECTR. SA P.O.Box 21025 Hippocrates Str. 188 Athens 11471 Greece			

All of the above locations are fully equipped to take care of your total service needs or can advise you. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

## 1. TECHNICAL SPECIFICATIONS

### Audio

Input Sensitivity/ Impedance ..... 150 mV/47 Kohm  
Output Level/ Impedance ..... 1.0V/ 600 ohms  
Total Harmonic Distortion ..... 0.006%  
Crosstalk ..... 76 dB/ 10 kHz  
Audio Frequency Response ..... 10 Hz to 100 kHz (-3 dB)  
Noise VOL MIN (Weighted) ..... 3.5  $\mu$ V  
VOL MAX (Weighted) ..... 15  $\mu$ V  
S/ N ..... 90 dB  
Dolby Surround Channel Separation ..... 50 dB

Television Format ..... NTSC  
Input Level/ Impedance ..... 1 Vp-p/ 75 ohms  
Output Level/ Impedance ..... 1 Vp-p/ 75 ohms  
Video Frequency Response ..... 5 Hz to MHz (-3 dB)  
S/ N ..... 63 dB

### DSP

Delay time ..... 10 to 90 mS

### General

Power Requirement ..... 230/ 240 VAC, 50/ 60 Hz  
Power Consumption ..... 30 W  
Dimensions  
Width ..... 420 mm  
Height ..... 86 mm  
Depth ..... 336 mm  
Weight ..... 8.1 kg

### Accessories

Remote Control Unit RC500AV ..... 1  
AA-size batteries ..... 2  
Stereo Pin cable ..... 3

## 2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing.

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
ACVTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO aignment
Circuit Tester	Trouble shooting
DCVTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer	Adjust level of primery power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup
NTSC TV Test Signal Generator	Color bar signal source
NTSC Vector Scope	Color phase monitor

## 3. SERVICE ROUTINE

### HOW TO ACTIVATE THE SERVICE ROUTINE

While holding the CD and LD function keys on the front panel of the set, press the POWER switch to ON to activate the service routine.

The service routine starts with two cycles of alternate lighting of the SERVICE ROUTINE indicator and all FL dots on the FL display, then proceed to the series of operations as shown in the following table.

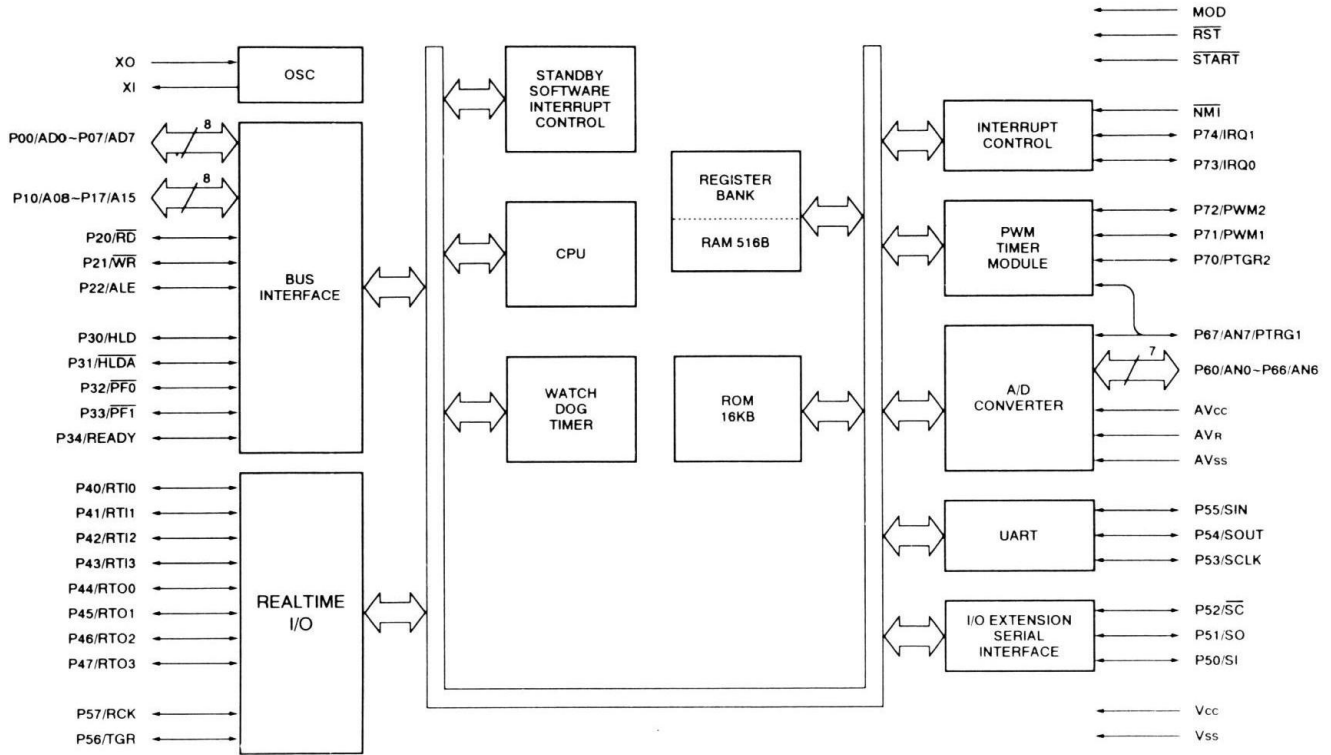
Caution: Before activating the service routine, be sure to input a desired video signal to the video input of the LD player.

Any of the service routine operations can be paused by pressing the MUTE switch.

After the completion of service routine, the set returns to the initial state and normal operation mode.

	FUNCTION		DSP MODE	CENTER MODE	DELAY TIME	COPY		BASS EQ	MAIN	VOLUME		BAL
	AUDIO	VISUAL				TAPE	VCR1			CENT	REAR	
1	TUNER	LD	STEREO	OFF	0mSEC	SOUR	SOUR	OFF		-∞	-∞	CENT
2	CD											
3	TAPE											
4	DCC											
5	LD	LD										
6	DBS	DBS										
7	VCR1	VCR1										
8	VCR2	VCR2										
9	AUX	AUX										
10	LD	LD	STEREO	OFF	0mSEC					-∞	-∞	
11	TUNER	LD	DOLBY	NORMAL	20mSEC					-6dB	-6dB	
12				WIDE								
13				PHANTO								
14				NORMAL								
15				WIDE	20mSEC							
16					25mSEC							
17					30mSEC							
18					15mSEC							
19					20mSEC							
20												
21												
22												
23												
24												
25												
26												
27			DOLBY									
28			MOVIE									
29			3ch									
30			HALL1		20mSEC							
31					30mSEC							
32					40mSEC							
33					50mSEC							
34					60mSEC							
35					70mSEC							
36					80mSEC							
37					90mSEC							
38					0mSEC							
39					10mSEC							
40					20mSEC							
41			HALL1		30mSEC							
42			HALL2									
43			MATRIX									
44			STEREO									
45												
46												
47												
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70												
71	TUNER	LD	STEREO	WIDE	30mSEC	SOUR	SOUR	7dB	UP DOWN	-∞	-∞	CENT

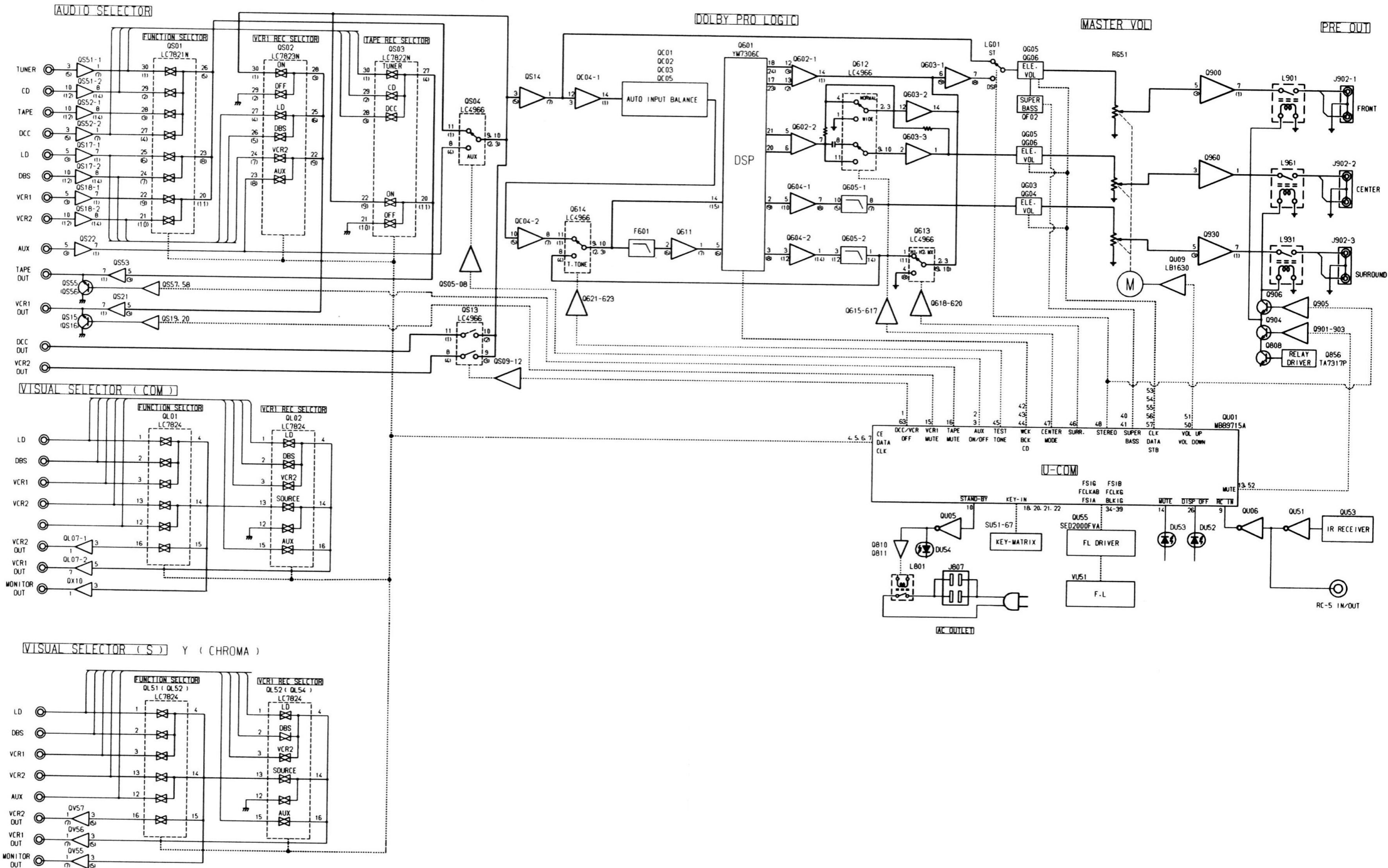
## 4. MICROPROCESSOR I/O PINS AND THEIR FUNCTIONS



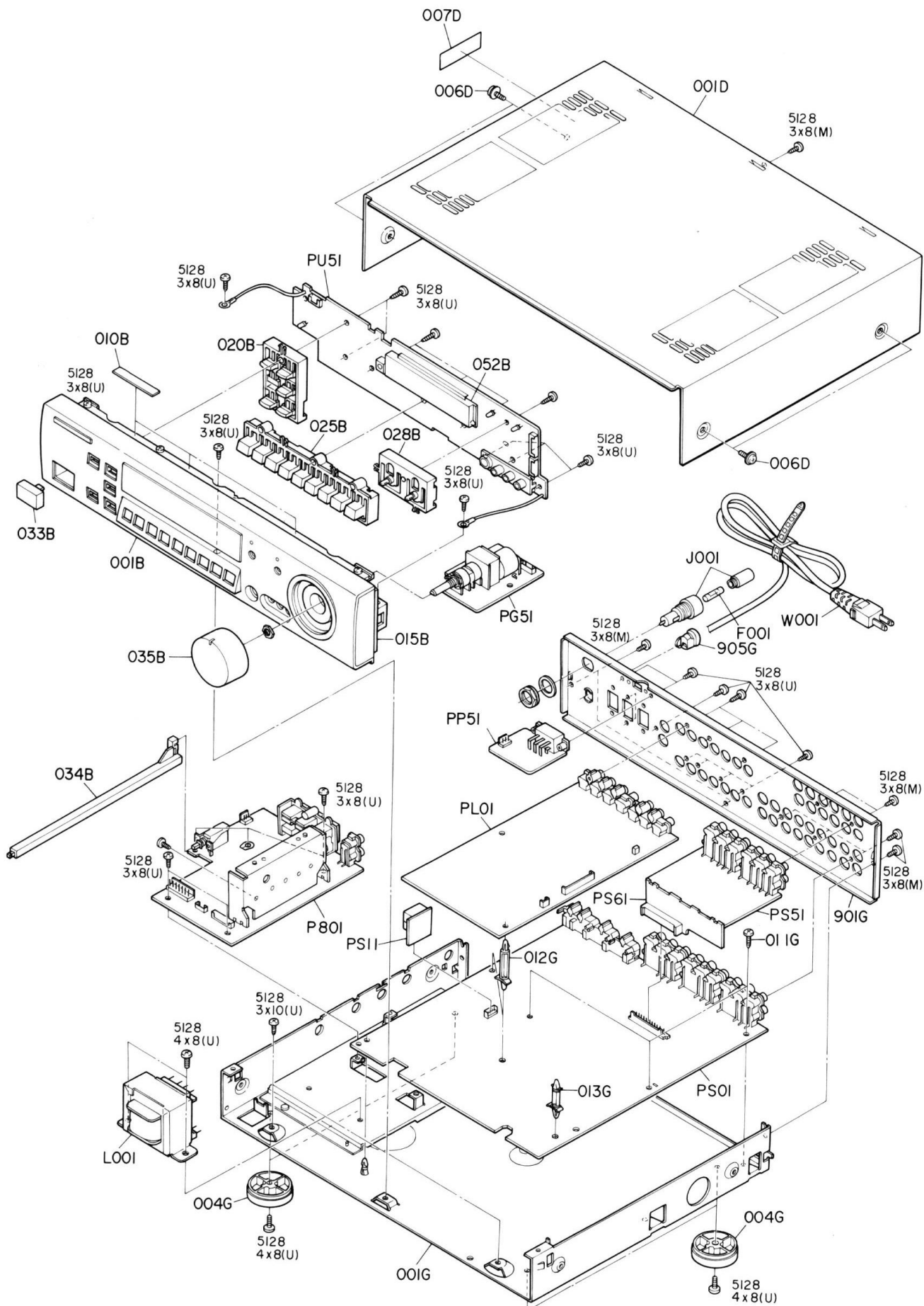
QU01 MB89715A

PIN NO.	PORT NAME	I/O	ACT	FUNCTION	PIN NO.	PORT NAME	I/O	ACT	FUNCTION		
1	P46/RT02	DCC REC OFF	O	H	DCC REC OUT OFF CONTROL	33	RST	RESET	I	L	RESET
2	P47/RT03	AUX	O	H	FUNCTION CONTROL-2 (AUX)	34	AD0/P00	FSIG	O	H	FL DRIVER (SED2000FVB) FSIG CONTROL
3	P70/PTGR2	OTHER	O	H	FUNCTION CONTROL-1 (OTHER)	35	AD1/P01	FCLKAB	O	H	FL DRIVER (SED2000FVB) FCLKAB CONTROL
4	P71/PWM1	CE2	O	H	LC782X CE2 CONTROL	36	AD2/P02	FSIA	O	H	FL DRIVER (SED2000FVB) FSIA CONTROL
5	P72/PWM2	CE1	O	H	LC782X CE1 CONTROL	37	AD3/P03	FSIB	O	H	FL DRIVER (SED2000FVB) FSIB CONTROL
6	P73/IRQ0	DATA	O	H	LC782X DATA CONTROL	38	AD4/P04	FCLKG	O	H	FL DRIVER (SED2000FVB) FCLKG CONTROL
7	P74/IRQ1	CLK	O	H	LC782X CLOCK CONTROL	39	AD5/P05	BLKIG	O	H	FL DRIVER (SED2000FVB) BLKIG CONTROL
8	NMI	N.C	—	—	N.C	40	AD6/P06	EQ-1	O	H	BASS EQ (TC4052) CONTROL-1
9	P50/SI	RC5-IN	I	L	RC-5 INPUT	41	AD7/P07	EQ-2	O	H	BASS EQ (TC4052) CONTROL-2
10	P51/SO	STAND BY	O	H	STANDBY LED CONTROL	42	A08/P10	BCK	O	H	DOLBY (YM7306B) BCK CONTROL
11	P52/SC	CLK-IN	I	H	CLOCK INPUT	43	A09/P11	WCK	O	H	DOLBY (YM7306B) WCK CONTROL
12	P53/SCLK	CLK-OUT	O	H	CLOCK OUTPUT	44	A10/P12	CD	O	H	DOLBY (YM7306B) CD CONTROL
13	P54/SOUT	MUTE	O	H	PRI MUTE OUTPUT	45	A11/P13	TEST-TONE	O	H	DOLBY TEST-TONE CONTROL
14	P55/SIN	MUTE-LED	O	H	AUDIO MUTE LED CONTROL	46	A12/P14	SURROUND	O	H	DSP MODE (PRO-LOGIC/SURROUND) CONTROL
15	P56/TGR	V1-REC-MUTE	O	H	VCR1 REC OUT MUTE CONTROL	47	A13/P15	CENTER-MODE	O	H	CENTER MODE (NORMAL/WIDE) CONTROL
16	P57/RCK	TAPE-REC-MUTE	O	H	TAPE REC OUT MUTE CONTROL	48	A14/P16	STEREO	O	H	DSP MODE STEREO CONTROL
17	AVcc	AVcc	—	—	A/D CONVERTER Vcc	49	A15/P17	PIP-ON/OFF	O	H	PIP (MB86140) POSITION CONTROL
18	AVr	AVr	—	—	A/D CONVERTER REFERENCE Vcc	50	RD/P20	VR-UP	O	H	MASTER VR DRIVER (LC1630) UP CONTROL
19	AVss	AVss	—	—	A/D CONVERTER GND	51	WR/P21	VR-DOWN	O	H	MASTER VR DRIVER (LC1630) DOWN CONTROL
20	P60/AN0	KEY-1	I	H	KEY (TACT SW) CONTROL-1	52	ALE/P22	MUTE	O	H	AUDIO MUTE OUT PUT CONTROL
21	P61/AN1	KEY-2	I	H	KEY (TACT SW) CONTROL-2	53	HLD/P30	DATA	O	H	ELECTRIC VR (TC9213P) DATA CONTROL
22	P62/AN2	KEY-3	I	H	KEY (TACT SW) CONTROL-3	54	HLD/A/P31	CLK	O	H	ELECTRIC VR (TC9213P) CLOCK CONTROL
23	P63/AN3	KEY-4	I	H	KEY (TACT SW) CONTROL-4 (UN USED)	55	PF0/P32	STB-1	O	H	ELECTRIC VR (TC9213P) STB-1 CONTROL
24	P64/AN4	KEY-5	I	H	KEY (TACT SW) CONTROL-5 (UN USED)	56	PF1/P33	STB-2	O	H	ELECTRIC VR (TC9213P) STB-2 CONTROL
25	P65/AN5	MODE	I	H	MODEL SELECT CONTROL	57	READY/P34	STB-3	O	H	ELECTRIC VR (TC9213P) STB-3 CONTROL
26	P66/AN6	DISP-OFF-LED	O	L	DISPLAY OFF LED CONTROL	58	RT10/P40	DATA	O	H	OSD ( $\mu$ PD6450) DATA CONTROL
27	P67/AN7/PTRG1	PIP-REV	O	H	PIP (MB86140) NOR/REV CONTROL	59	RT11/P41	CLK	O	H	OSD ( $\mu$ PD6450) CLK CONTROL
28	START	START	I	L	START	60	RT12/P42	STB	O	H	OSD ( $\mu$ PD6450) STB CONTROL
29	MOD/VPP	VPP	—	—	—	61	RT13/P43	BUSY	I	L	OSD ( $\mu$ PD6450) BUSY INPUT
30	XO	X-OUT	O	—	CRYSTAL OUTPUT (8MHz)	62	RT00/P44	BLUE-CONT	I	L	OSD BLUE BACK CONTROL INPUT
31	XI	X-IN	I	—	CRYSTAL INPUT (8MHz)	63	RT01/P45	V2-REC OFF	O	H	VCR-2 REC OUT OFF CONTROL
32	Vss	Vss	—	—	GND	64	Vcc	Vcc	—	—	Vcc

## 5. BLOCK DIAGRAM



## 6. EXPLODED VIEW AND PARTS LIST



REF. DESIG.	PART NO.	DESCRIPTION
001B	4822 426 51665	Front Panel Assembly
015B	4822 464 90772	Chassis Assembly, Front
020B	4822 410 62732	Button, Copy
025B	4822 410 62731	Button, Function
028B	4822 417 11197	Hinge Assembly, DIS/ MUT
033B	4822 410 60194	Button, Power/ Standby
034B	4822 402 50237	Link, Power
035B	4822 413 41679	Knob, Main Volume
006D	4822 501 11008	B.T. Screw (W/ W) M4 x 8
004G	4822 462 41932	Leg
011G	4822 502 12355	B.T. Screw (W/ W) M3 x 8
905G	4822 532 60948	Bushing, AC Cord
▲ F001	4822 253 40203	Fuse 0.2A 250V
▲ J001	4822 256 30233	Jack, Fuse Holder
▲ L001	4822 146 21741	Power Transformer
Z001	4822 218 10517	Unit (K), Remocon
Z003	4822 321 21438	Connective Cord
Z004	4822 321 21438	Connective Cord
Z005	4822 321 21438	Connective Cord
001T	4822 736 21786	User Manual



REF. DESIG.	PART NO.	DESCRIPTION
Q623 Q624 Q900 Q901 Q902 Q903 Q904 Q905 Q906 Q930 Q960	4822 130 61227 4822 209 32444 4822 209 73064 4822 130 42594 4822 130 42594 4822 130 61227 4822 130 60588 4822 130 61227 4822 130 60588 4822 209 73064 4822 209 73064	Transistor, digital DTA114ES IC V53C464AP80 IC NJM2068DD Transistor, digital DTC144ES Transistor, digital DTC144ES Transistor, digital DTA114ES Transistor, digital DTC114ES Transistor, digital DTA114ES Transistor, digital DTC114ES IC NJM2068DD IC NJM2068DD
<b>PS01-MISCELLANEOUS</b>		
JS03 JS04 JS06	4822 290 81407 4822 290 81407 4822 265 40929	Terminal, 6P Terminal, 6P Plug, 18P
JV51 JV52 JV53	4822 290 61176 4822 290 61176 4822 290 61177	Terminal, 2P Terminal, 2P Terminal, 3P
J902	4822 290 81407	Terminal, 6P
LG01	4822 280 20501	Relay MR62-24SR 24V
L901 L931 L961	4822 280 20196 4822 280 20196 4822 280 20196	Relay 24V Relay 24V Relay 24V
XU01	4822 242 72066	Ceramic Resonator, 8.00MHz
X601	4822 242 81536	Ceramic Resonator, 8.46MHz
<b>PS11-L. P. F. CIRCUIT BOARD</b>		
L601 L602	4822 153 70065 4822 153 70065	L. C. Filter 13.3KHz L. C. Filter 13.3KHz
<b>PS51-SUB FUNCTION CIRCUIT BOARD</b>		
<b>PS51-CAPACITORS</b>		
CS61 CS62	4822 122 40617 4822 122 40617	Ceramic Cap. 0.1 $\mu$ F +80% -20% Ceramic Cap. 0.1 $\mu$ F +80% -20%
<b>PS51-CAPACITORS (COMMON)</b>		
Electrolytic Capacitor, $\pm$ 20%: CS51~CS60		
<b>PS51-RESISTORS (COMMON)</b>		
Carbon Film Fixed Resistor, $\pm$ 5% 1/6W: RS51~RS83, RS85, RS86		
<b>PS51-SEMICONDUCTORS</b>		
QS51 QS52 QS53 QS55 QS56 QS57 QS58	4822 209 70044 4822 209 70044 4822 209 83631 4822 130 43818 4822 130 43818 4822 130 61227 4822 130 60588	IC NJM2058D IC NJM2058D IC NJM4558DD Transistor 2SC2878 (A) Transistor 2SC2878 (A) Transistor, digital DTA114ES Transistor, digital DTC114ES
<b>PS51-MISCELLANEOUS</b>		
JS51 JS52	4822 290 81407 4822 290 81407	Terminal, 6P; RCA Terminal, 6P; RCA
<b>PS61-SUB FUNCTION CONNECT CIRCUIT BOARD</b>		
JS53	4822 265 41287	Jack, 18P

REF. DESIG.	PART NO.	DESCRIPTION
<b>PU51-FRONT CIRCUIT BOARD</b>		
<b>PU51-CAPACITORS</b>		
CL51 CL54 CL55 CL56 CL57 CL58 CL59	4822 124 22048 4822 124 80665 4822 124 80665 4822 122 40617 4822 122 40617 4822 122 30045 4822 122 40617	Elect 220 $\mu$ F 6.3V Elect 10 $\mu$ F 50V Elect 10 $\mu$ F 50V Ceramic 0.1 $\mu$ F +80% -20% Ceramic 0.1 $\mu$ F +80% -20% Ceramic 27pF $\pm$ 5% Ceramic 0.1 $\mu$ F +80% -20%
CU51 CU52 CU53	4822 122 32486 4822 124 41242 4822 122 32486	Ceramic 0.01 $\mu$ F +80% -20% Elect 100 $\mu$ F 10V Ceramic 0.01 $\mu$ F +80% -20%
<b>PU51-RESISTORS (COMMON)</b>		
Carbon Film Fixed Resistor, $\pm$ 5% 1/6W: RL53, RL54, RL55, RL61, RL62, RU51~RU67, RU69, RU71, RU72, RU73		
<b>PU51-SEMICONDUCTORS</b>		
DU52 DU53 DU54	4822 130 81715 4822 130 80326 4822 130 80326	L. E. D. LT3K44B L. E. D. LT3D8B L. E. D. LT3D8B
QU51 QU53 QU55	4822 130 42682 4822 218 10343 4822 209 63172	Transistor, digital DTA144ES Photo Unit, IR Sensor IC SED2000FVA
<b>PU51-MISCELLANEOUS</b>		
FU52 FU53	4822 158 60605 4822 158 60605	Ferrit Core Ferrit Core
JL51	4822 290 61181	Terminal, RCA; Pin
SU51 SU63 SU65 SU66 SU67	4822 276 20508 4822 276 20508 4822 276 20508 4822 276 20508 4822 276 20508	Push Switch (Tact) Push Switch (Tact) Push Switch (Tact) Push Switch (Tact) Push Switch (Tact)
VU51	4822 130 90924	Display Unit
<b>P801-SUPPLY CIRCUIT BOARD</b>		
<b>P801-CAPACITORS</b>		
C803 C804 C807 C808 ▲ C809 C811 C812 C813 C816 C817	4822 124 22277 4822 124 22277 4822 124 90371 4822 124 90371 4822 122 33276 4822 124 41538 4822 124 41538 4822 124 90355 4822 122 30103 4822 122 30103	Elect 470 $\mu$ F 16V Elect 470 $\mu$ F 16V Elect 470 $\mu$ F 10V Elect 470 $\mu$ F 10V Ceramic 0.01 $\mu$ F $\pm$ 20% Elect 220 $\mu$ F 35V Elect 220 $\mu$ F 35V Elect 100 $\mu$ F 50V Ceramic 0.022 $\mu$ F +80% -20% Ceramic 0.022 $\mu$ F +80% -20%
C818 C819 ▲ C851 C858 C860 C861	4822 122 30103 4822 122 30103 4822 122 33276 4822 124 22694 4822 124 41539 4822 122 32486	Ceramic 0.022 $\mu$ F +80% -20% Ceramic 0.022 $\mu$ F +80% -20% Ceramic 0.01 $\mu$ F $\pm$ 20% Elect 1000 $\mu$ F 6.3V Elect 47 $\mu$ F 16V Ceramic 0.01 $\mu$ F +80% -20%
<b>P801-CAPACITORS (COMMON)</b>		
Electrolytic Capacitor, $\pm$ 20%: C801, C802 C805, C806, C820, C821		
<b>P801-RESISTORS</b>		
▲ R822	4822 111 90967	4.7 $\Omega$ $\pm$ 5% 1/4W

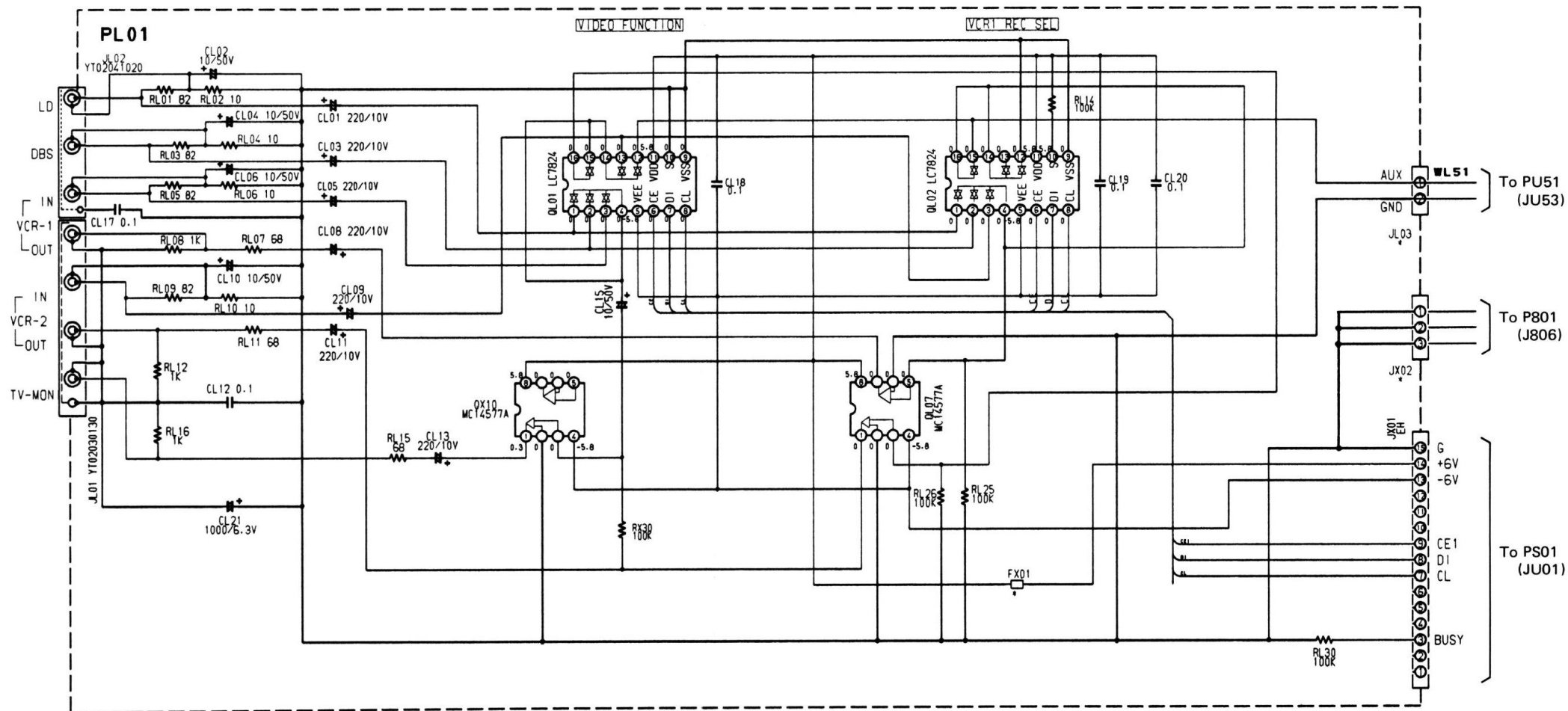
REF. DESIG.	PART NO.	DESCRIPTION
<b>P801-RESISTORS (COMMON)</b>		
Carbon Film Fixed Resistor, $\pm$ 5% 1/6W: RU91, R801, R806~R810, R816~R821, R864, R865, R866		
<b>P801-SEMICONDUCTORS</b>		
▲ D801 ▲ D802 ▲ D803 ▲ D804 ▲ D805 ▲ D807 ▲ D819 ▲ D820 ▲ D821 ▲ D822	4822 130 80907 4822 130 80907 4822 130 32508 4822 130 32508 4822 130 33305 4822 130 32508 4822 130 32508 4822 130 32508 4822 130 32508 4822 130 32508	Diode 2SVB20 Diode 2SVB20 Diode RL103E/DSF10C Diode RL103E/DSF10C Diode 1SS176, etc. Diode RL103E/DSF10C Diode RL103E/DSF10C Diode RL103E/DSF10C Diode RL103E/DSF10C Diode RL103E/DSF10C
D823 ▲ D824 ▲ D825	4822 130 80322 4822 130 32508 4822 130 32508	Zener RD15JB3/MTZJ16A Diode RL103E/DSF10C Diode RL103E/DSF10C
▲ Q801 ▲ Q802 ▲ Q803 ▲ Q804 ▲ Q806 Q807 Q808 Q810 Q811 Q856	4822 209 61848 4822 209 61526 4822 209 61533 4822 209 32555 4822 209 61533 4822 130 61187 4822 130 42298 4822 130 42682 4822 130 60588 4822 209 83312	IC NJM7815FA IC NJM79M15FA IC NJM7806FA IC NJM79M06FA, Regulator IC NJM7806FA Transistor, digital DTA144TS Transistor 2SC536SP, etc. Transistor, digital DTA144ES Transistor, digital DTC114ES IC TA7317P
<b>P801-MISCELLANEOUS</b>		
JU91	4822 290 61175	Terminal, RCA; 2P
▲ J807 J853	4822 265 31113 4822 403 53984	Jack, 3P; RCA Outlet Terminal
▲ L801	4822 280 20534	RELAY G5P-1
▲ S851	4822 276 12924	Push Switch, Power

**NOTE ON SAFETY :**

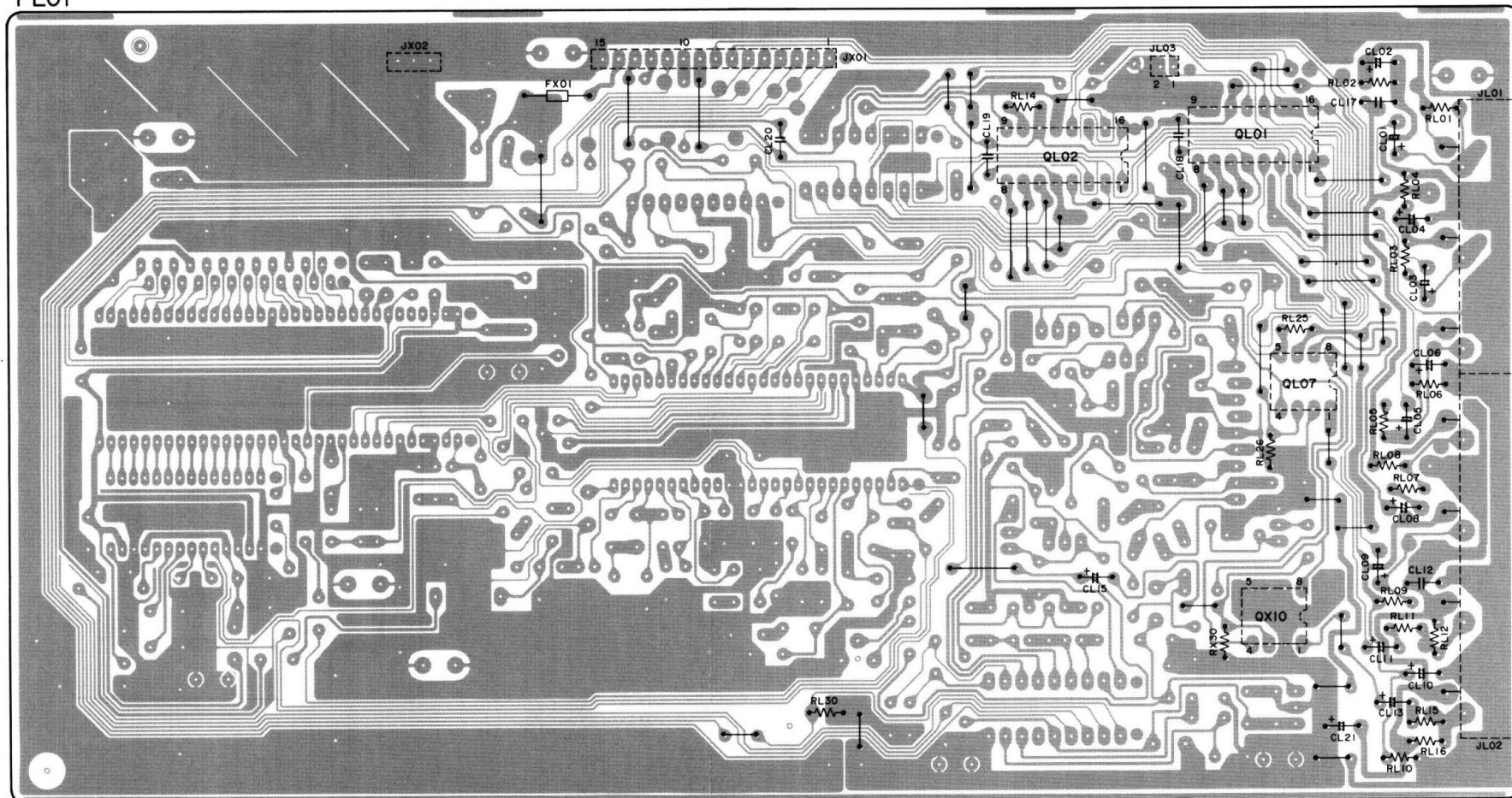
Symbol ▲ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ▲ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

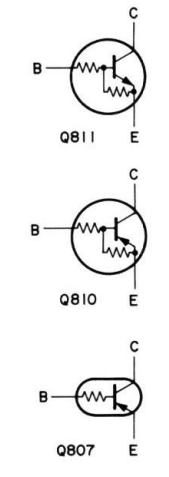
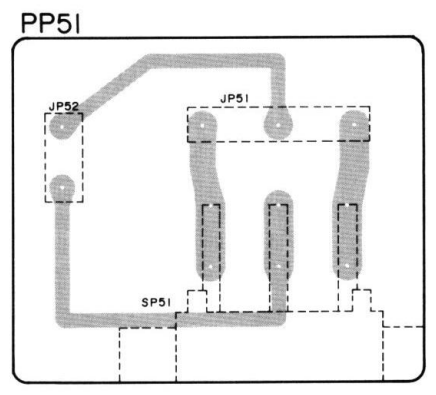
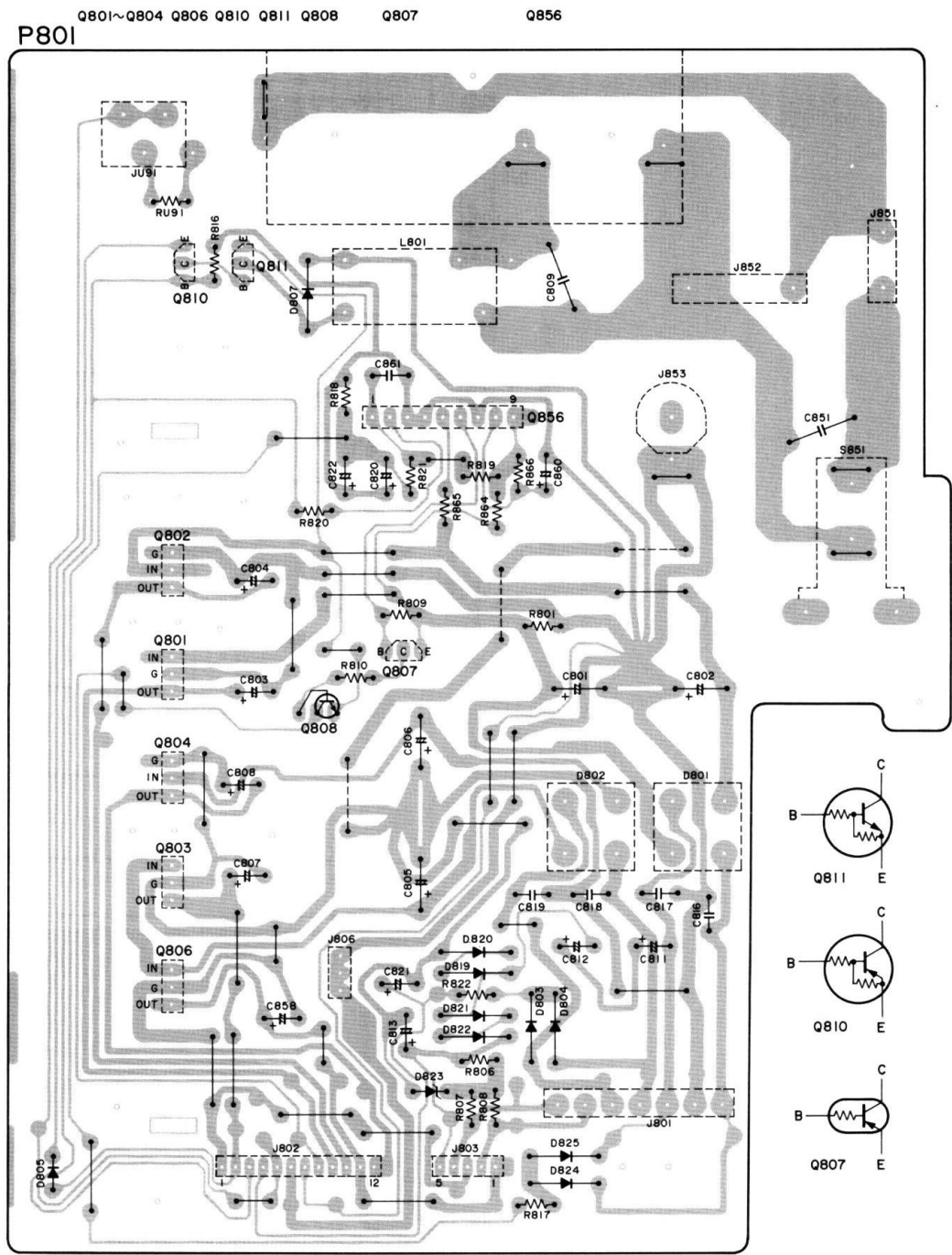
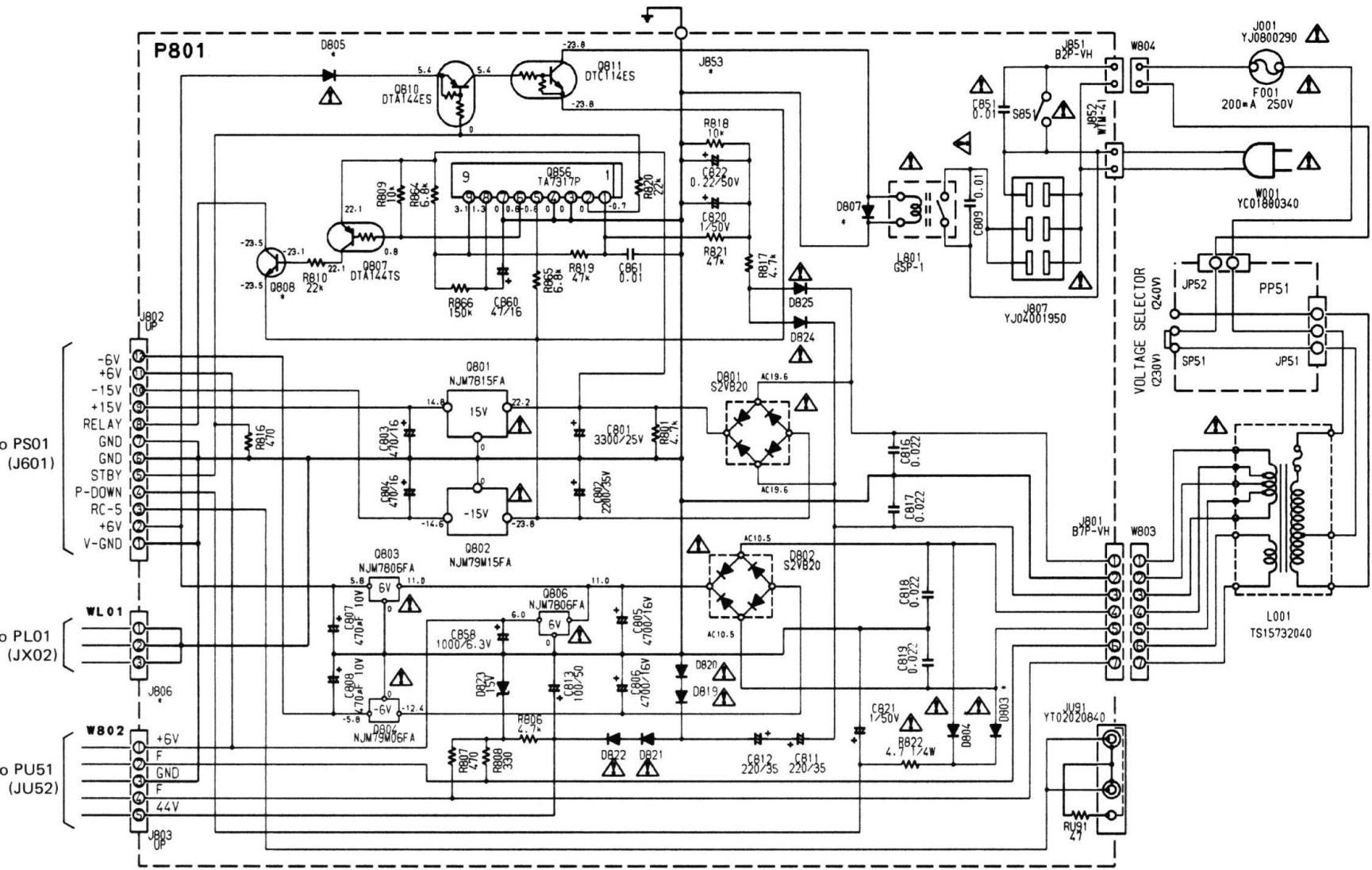


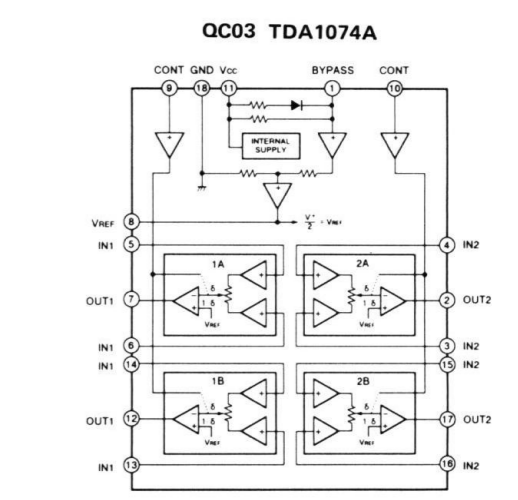
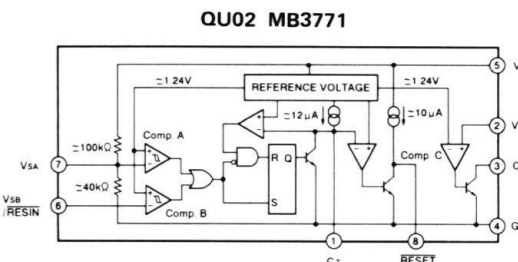
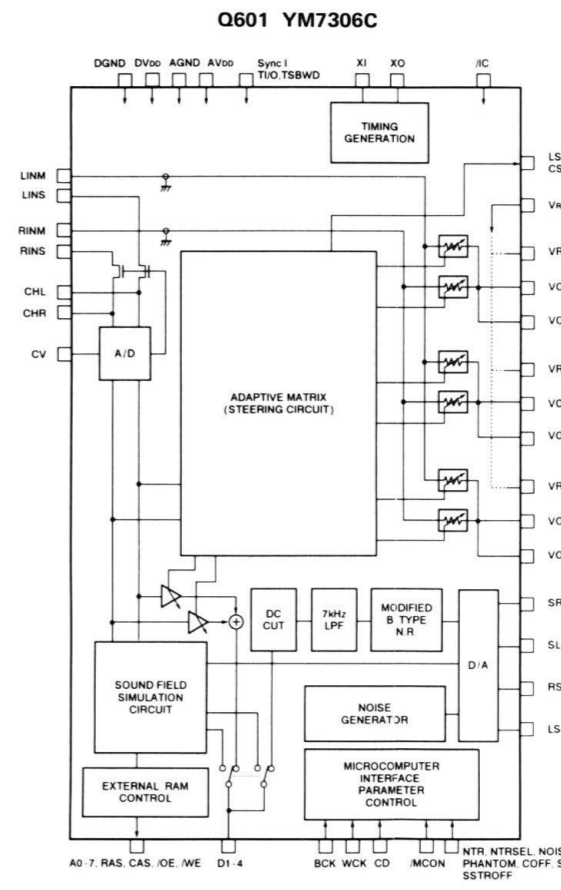
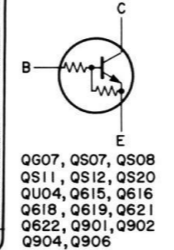
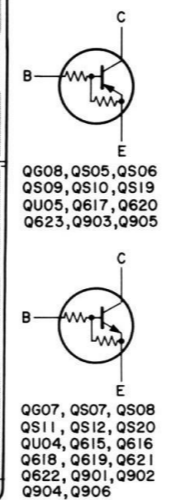
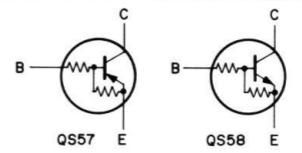
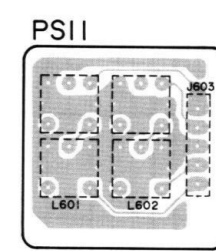
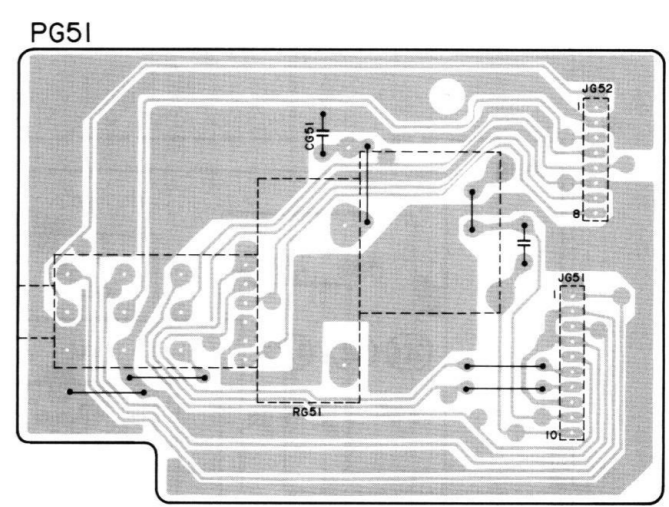
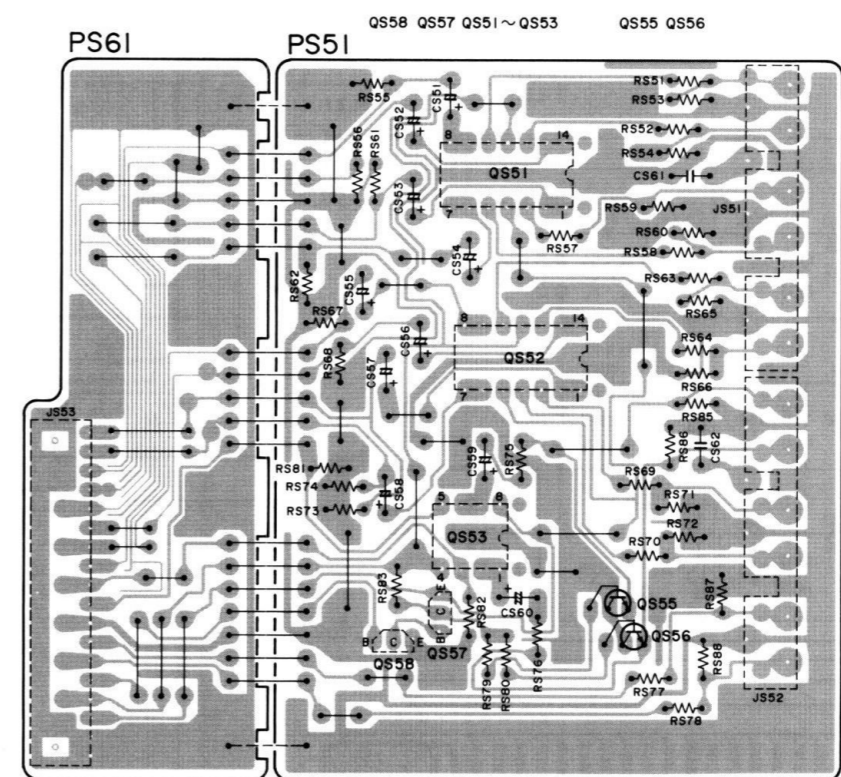
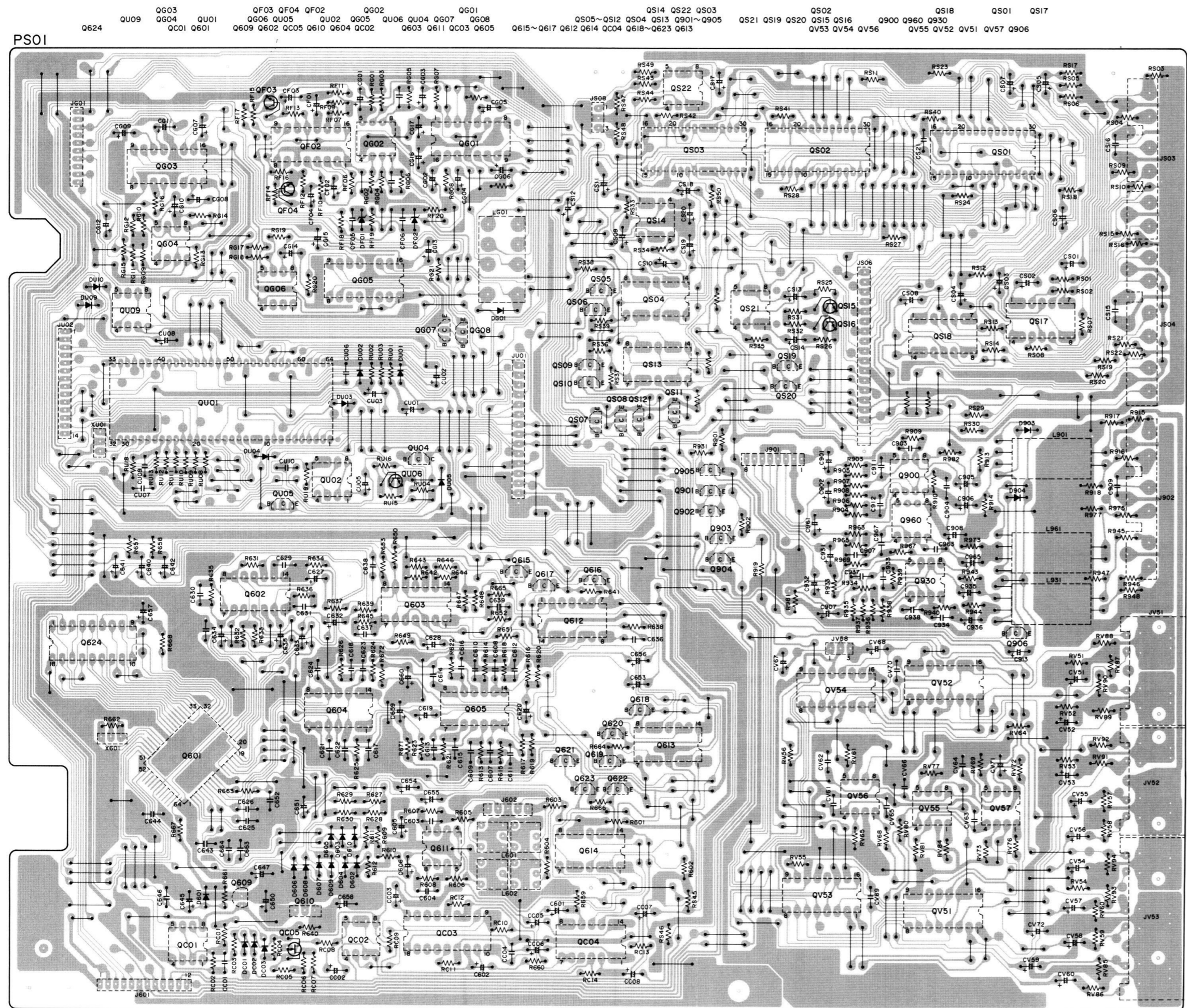
# 8. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern side)

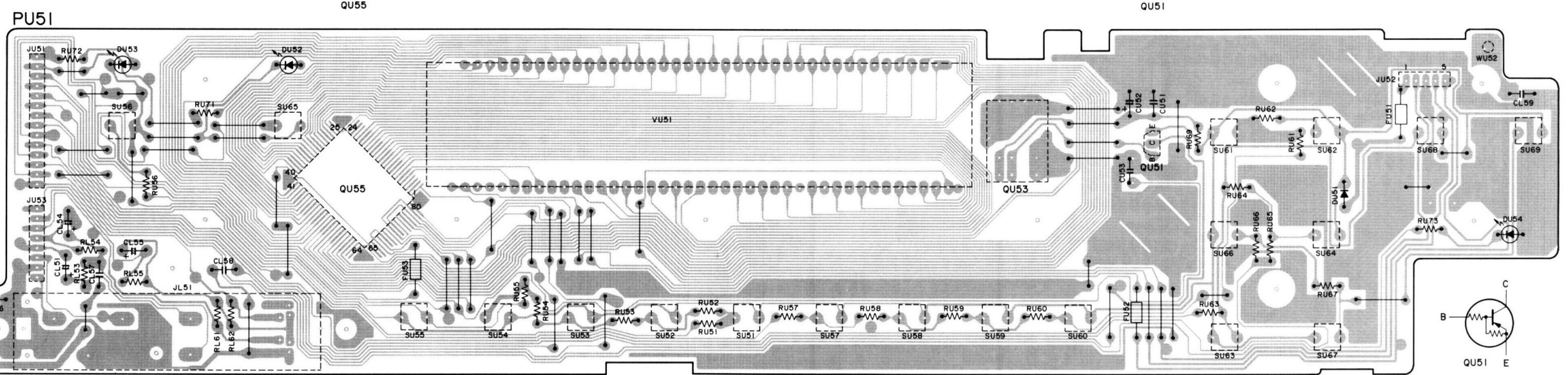
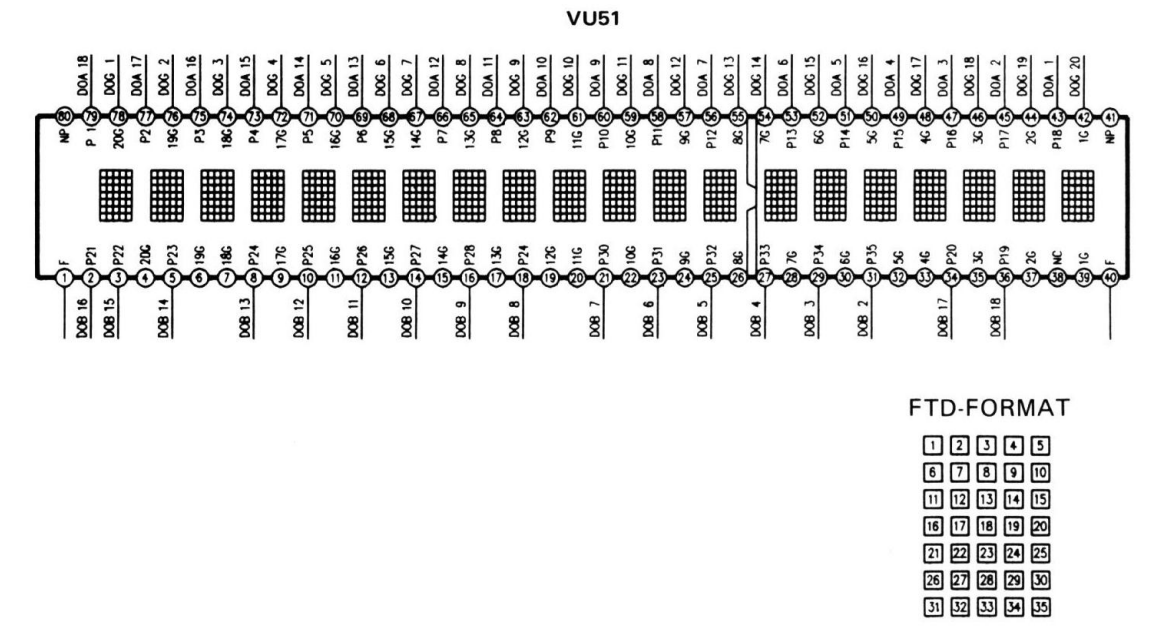
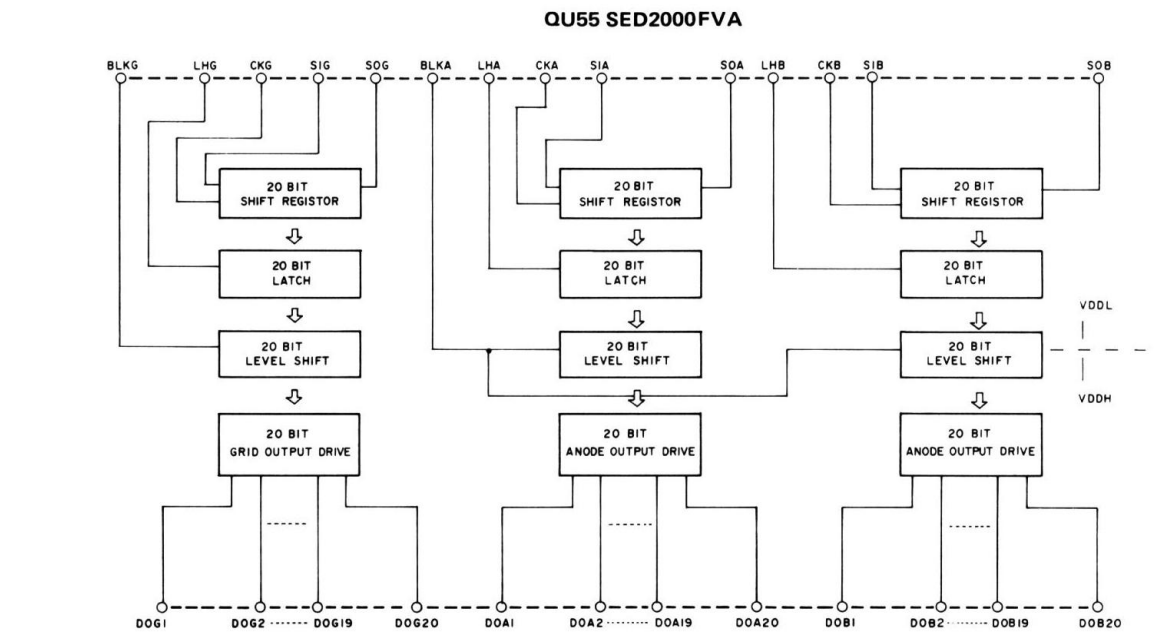
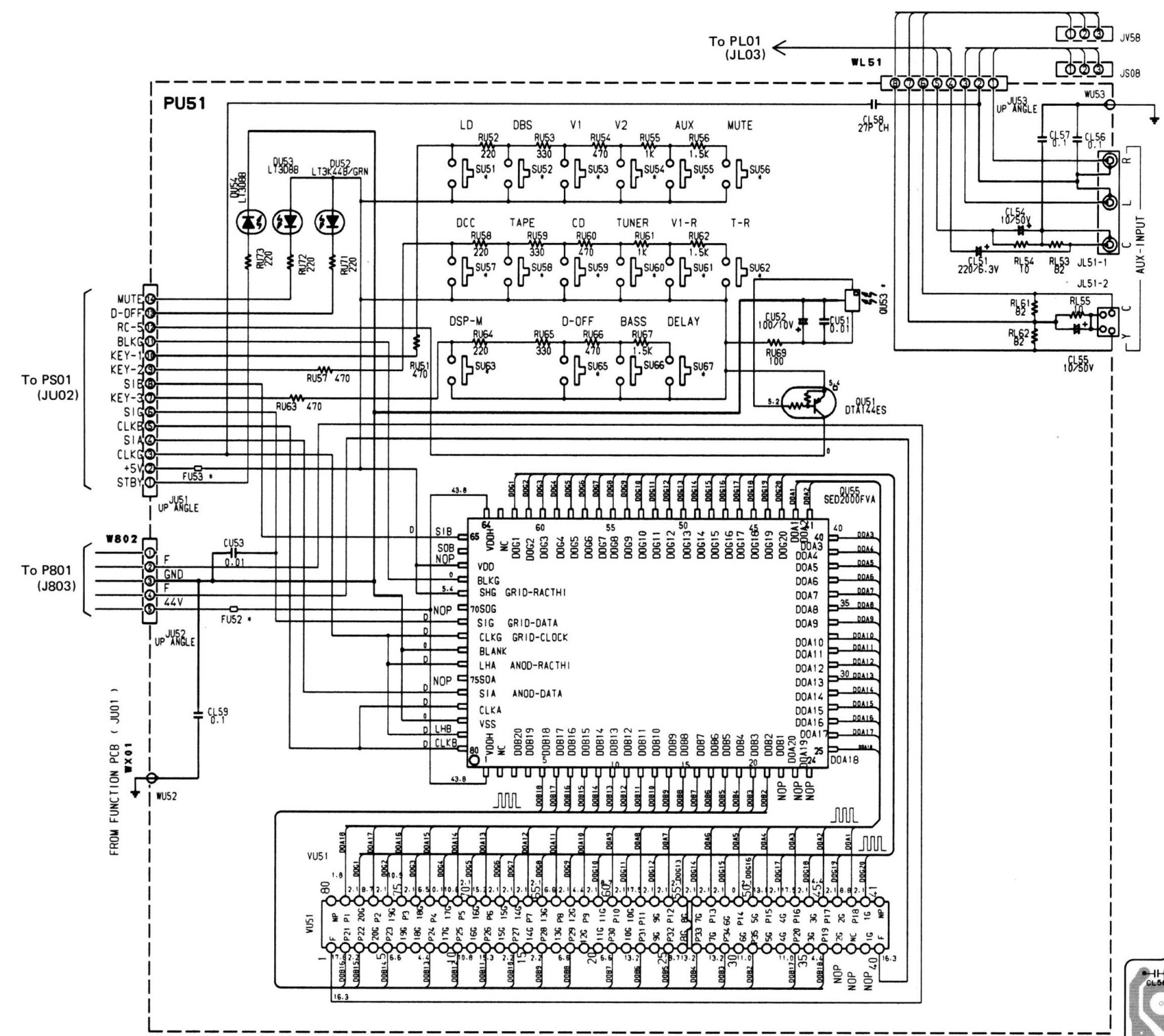


PL01

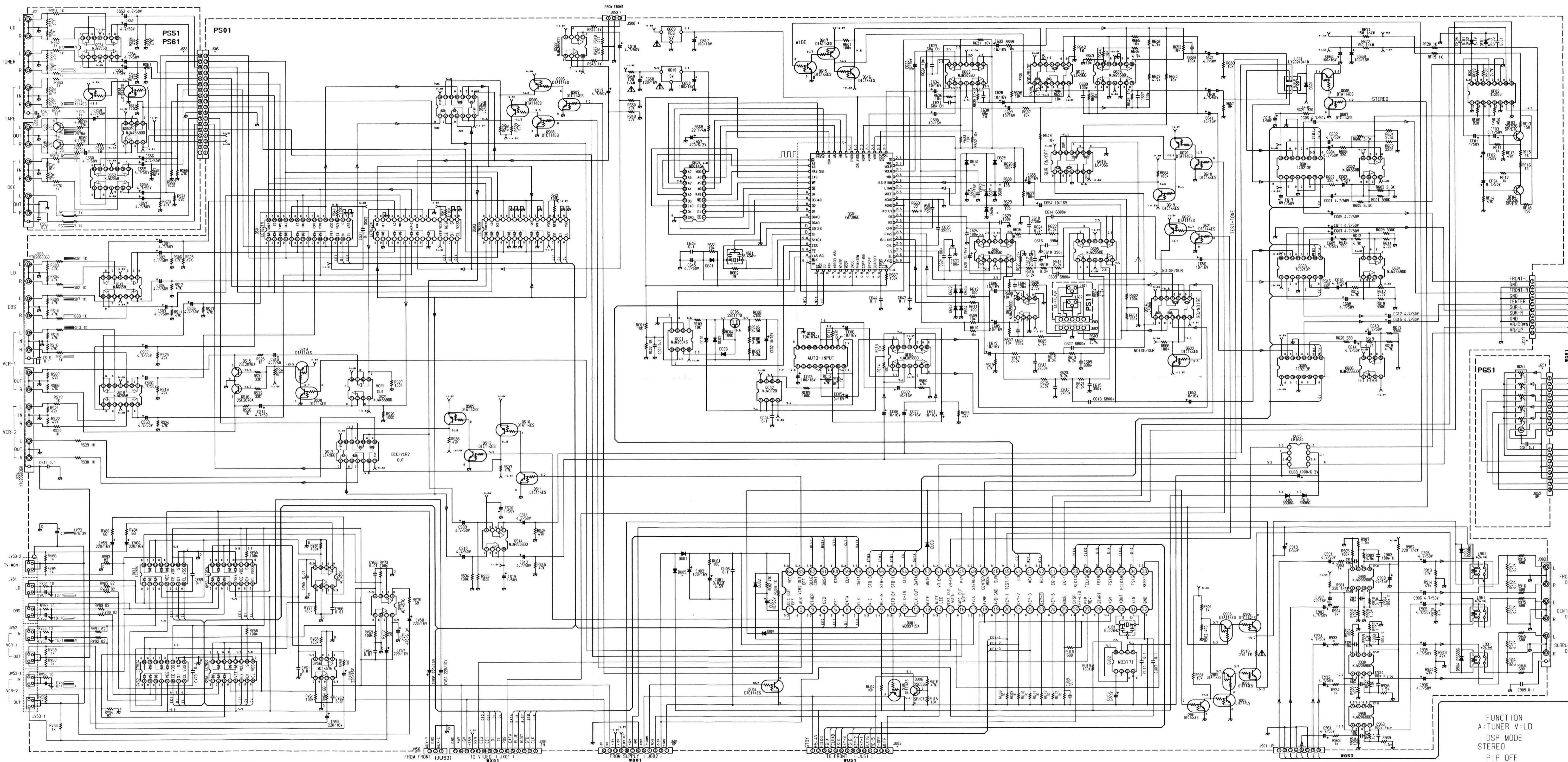








# AV5000 SCHEMATIC DIAGRAM



- FUNCTION  
A: TUNER V: LD  
DSP MODE  
STEREO  
PIP OFF  
DELAY: 0ms  
VOL: MIN  
COPY: TAPE  
SOURCE: TAPE  
COPY: VCR1  
SOURCE: VCR1  
D=