

**SERVICE
MANUAL** **SR7100DC**



marantz[®]

model SR7100DC

Stereophonic Receiver

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2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
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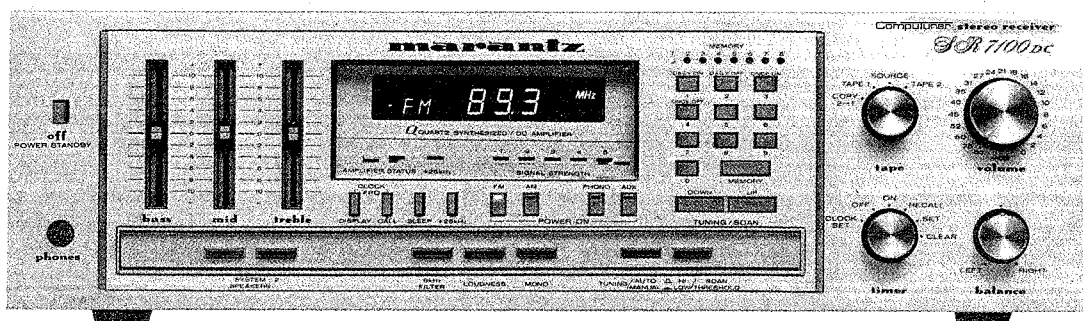
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Marantz Europe S.A. 326 Avenue Louise Bte 32 1050 Brussels Belgium	Marantz France 4 rue Bernard Palissy 92600 Asnieres France	Marantz Audio U.K., Ltd. 193 London Road Staines, Middlesex United Kingdom	Marantz Germany GMBH Max-Planck-Strasse 22 6072 Dreieich West Germany
Marantz Belgium 45 rue Auguste Van Zande 1080 Brussels Belgium	Marantz Svenska A.B. Franzengatan 6 10425 Stockholm Sweden	Marantz Norske A.S. Refstadalleen 13 Oslo 5 Norway	

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MODEL SR7100DC STEREOPHONIC RECEIVER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SR7100DC Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

1. Tuner/Phono	P100
2. Controller	P500
3. VFL and Signal LED	P501
4. PLL and L.P.F.	P502
5. Controller and F.I.P. Jumper	P503
6. Controller and PLL Jumper	P504
7. Main Amp	P700
8. Main Amp	P701
9. Power Supply	P800
10. Scan Step SW.	PC50
11. Tone Amp	PE00
12. Tone Volume	PE01
13. Connection	PE02
14. Vol/Balance	PG00
15. Tape Monitor SW.	PJ01
16. Protector	PL00
17. AC Power Relay	PQ00
18. Filter/Loudness	PS00
19. Speaker Terminal	PS01
20. Timer Switch	PS50
21. Key Board	PT00
22. Power Off Switch	PT50
23. Function SW.	PU00
24. C/F Display	PU50
25. Head Phone	PW01

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model SR 7100DC Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B-10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ±0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ±0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

3. FREQUENCY SYNTHESIZER RADIO TUNING SYSTEM

3.1 Construction of Synthesizer System

This frequency synthesizer is composed of a micro-computer (MN1455LF), PLL LSI (MN6147), lowpass filter, crystals and fluorescent indicating tubes, as shown in Fig. 1.

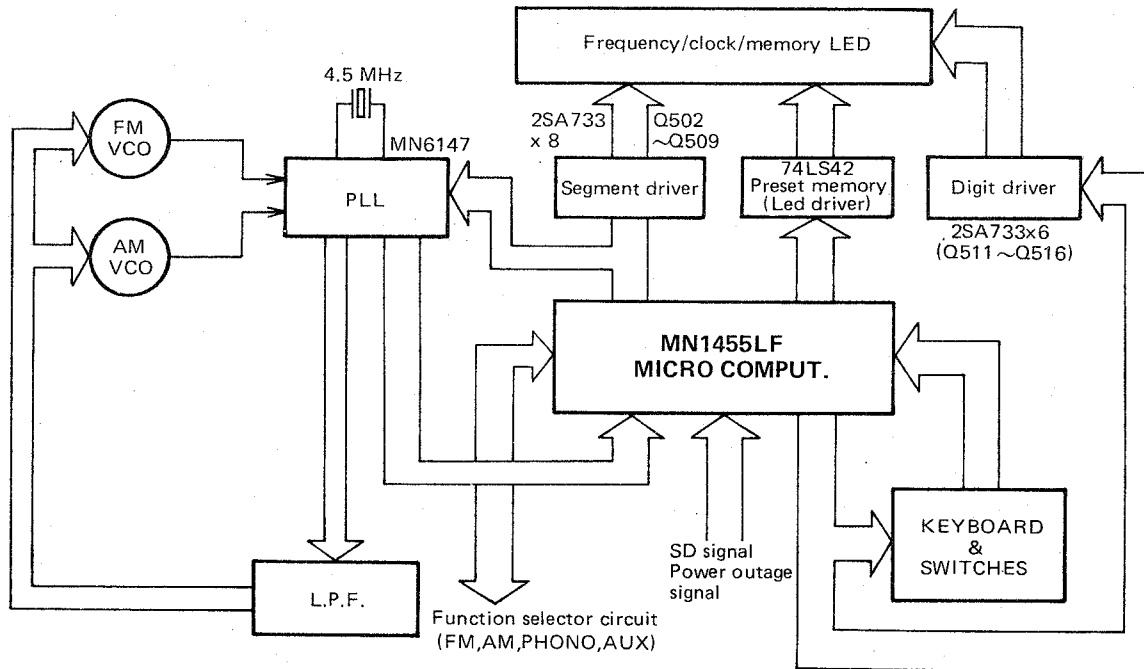


Figure 1. Block Diagram of Synthesizer

3.2 Microcomputer MN1455LF

(1) Terminal connections

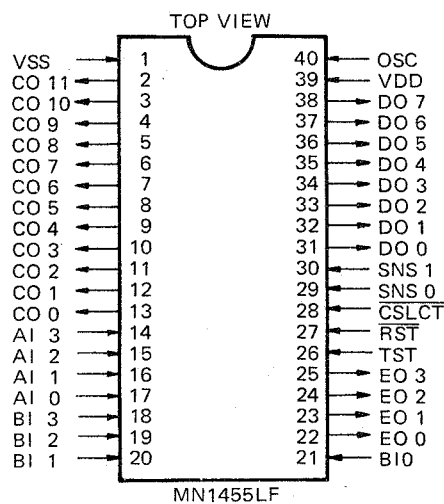


Figure 2.

(2) Specifications

Item	Symbol		Ratings	Unit
Power supply voltage	V_{DD}		$-0.3 \sim +10$	V
Input terminal voltage	V_I		$-0.3 \sim V_{DD} + 0.3$	V
Output terminal voltage	V_O		$-0.3 \sim V_{DD} + 0.3$	V
Clock input terminal voltage	V_{OSC}		$-0.3 \sim V_{DD} + 0.3$	V
Peak envelope output current	I_{OH} (peak)	C port	-0.5	mA
		D port		
		E port		
	I_{OL} (peak)	C port	8	mA
		D port		
		E port		
Average output current	I_{OH}^{**} (avg.)	C port	-0.25	mA
		D port		
		E port		
	I_{OL}^{**} (avg.)	C port	4	mA
		D port		
		E port		
Power consumption	P_T^*		500	mW
Ambient temperature	T_{opr}		$-20 \sim +70$	°C
Storage temperature	T_{stg}		$-55 \sim +100$	°C

(3) Functions of terminals

Pin Code	Pin Symbol	Function
1	VSS	Ground terminal
2	CO11	LW source control output terminal, H level output
3	CO10	MW source control output terminal, H level output
4	CO9	FM source control output terminal, H level output
5	CO8	AC outlet output terminal, H level output
6	CO7	Muting output terminal, H level output
7	CO6	Data latch clock output terminal for MN6147
8 9 10 11 12 13	CO5 CO4 CO3 CO2 CO1 CO0	Frequency display digit output and switch and key matrix scan port. The scan is low level. CO5 ... G1, CO4 ... G2, CO3 ... G3, CO2 ... G4, CO1 ... G5, CO0 ... GS1, GS2
14 15 16 17 20 21	Ai3 Ai2 Ai1 Ai0 Bi1 Bi0	Switch and key matrix input terminal. The input signal is always supplied from the micro computer standard routine.
18	Bi3	Station detector signal (tuning detector signal) input terminal. Checks the input only in the auto up/down station seek. Station detector signal — H level input Non station detector signal — L level input. In the normal condition, the muting is released regardless of the station detector signal.
19	Bi2	Power outage (battery back-up) detection terminal. In the battery back-up mode, the output of the micro computer becomes low and only the clock is counted. When the power is recovered, the unit is set to OFF mode (OFF key on condition) and display indicates the current time. Battery back-up mode — L level input Normal power supply — H level input

Pin Code	Pin Symbol	Function
22 23 24 25	EO0 EO1 EO2 EO3	Data output terminal for BCD driver SN74LS42 Preset memory display LED (M1 — M8) and PHONO, AUX1 and AUX 2 source LED control terminal
26	TST	Test terminal. Connected to ground
27	$\overline{\text{RST}}$	Reset terminal. When power is supplied to the micro computer, the level is L. In the normal condition, the level is H.
28	$\overline{\text{CSLCT}}$	To use the SNS1 for counter mode, connect to ground. (For the models without clock, connect to ground.)
29	SNSO	Lock detection input terminal for PLL system. The MN6147 ALDO signal is applied to this terminal via the filter. This terminal is used for auto up/down station seek. Lock mode — H level input Unlock mode — L level input
30	SNS1	Reference clock (250 Hz) input terminal. Input from MN6147 CK2. For the models without clock, connect to ground.
31 32 33 34 35 36 37 38	DO0 DO1 DO2 DO3 DO4 DO5 DO6 DO7	MN6147 data output and display segment output terminal. The segment scan is low.
39	VDD	Power supply terminal (+5V $\pm$ 10%)
40	OSC	Micro computer clock (526.5 kHz) input terminal. Input from MN6147 CK1.

3.3 PLL LSI MN6147

(1) Terminal connections

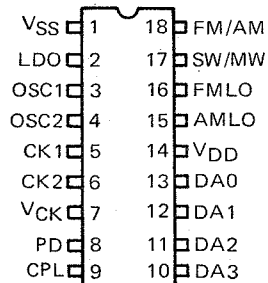


Figure 3.

(2) Specifications

Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Item	Symbol	Condition	Ratings	Unit
Power supply voltage	V_{DD}	$V_{SS} = 0\text{V}$	$-0.3 \sim +10$	V
Input voltage	V_I		$-0.3 \sim V_{DD} + 0.3$	V
Output voltage	V_O		$-0.3 \sim V_{DD} + 0.3$	V
Allowable loss	P_D		250	mW
Operating temperature	T_{opr}		$-30 \sim +70$	$^\circ\text{C}$
Storage temperature	T_{stg}		$-55 \sim +100$	$^\circ\text{C}$

(3) Block diagram

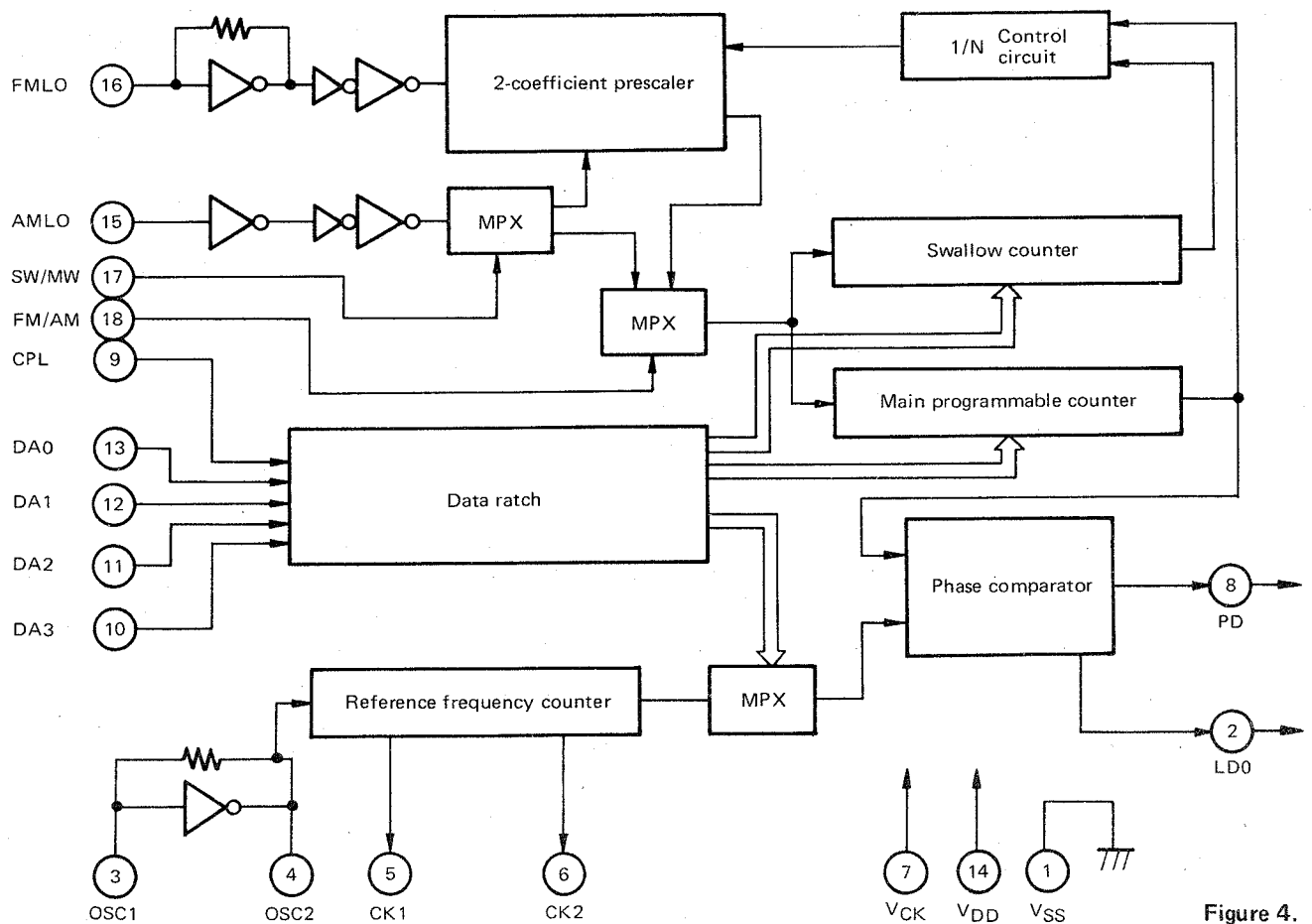


Figure 4.

(4) Functions of terminals

No.	Symbol	Description	No.	Symbol	Description
1	VSS	Ground	8	CPL	Latch clock
2	LDO	Oscillator output	9	DA3~DA0	Data address input
3	OSC1 ~ 2	Crystal oscillator (4.5 MHz)	10	VDD	Main power supply
4	CK1	Clock output (562.5 kHz)	11	AMLO	AM local oscillator input
5	CK2	Clock output (250 Hz)	12	FMLO	FM local oscillator
6	VCK	Clock circuit back-up	13	SW/MW	SW/MW selector
7	PD	Phase comparator output	14	FM/AM	FM/AM selector

(5) Data input timing chart

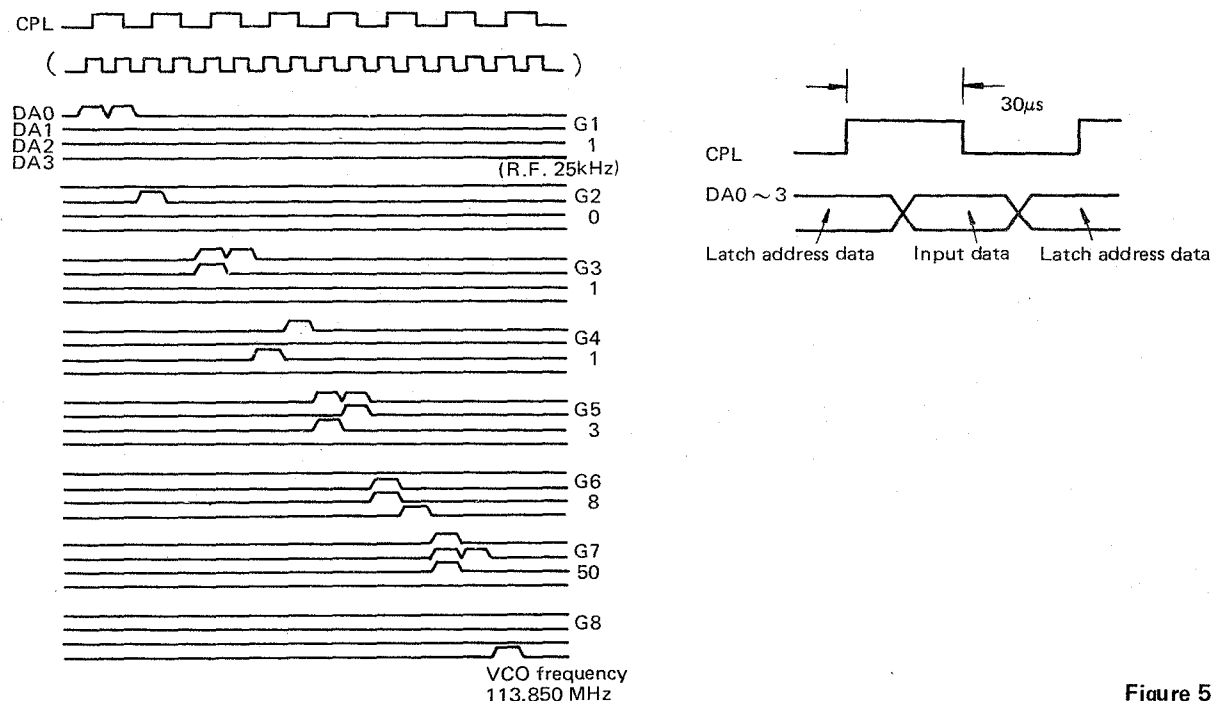


Figure 5.

(6) Relationship between data input terminal and programmable counter

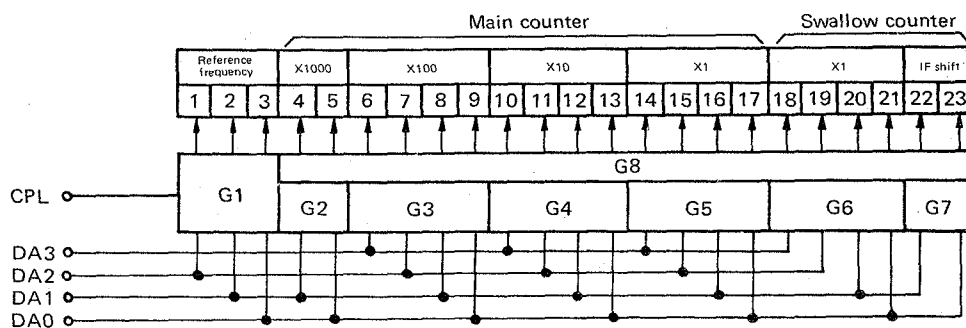


Figure 6.

(7) Latch group code list

Latch Input code	G1	G2	G3	G4	G5	G6	G7	G8
DA3	L	L	L	L	L	L	L	H
DA2	L	L	L	H	H	H	H	x
DA1	L	H	H	L	L	H	H	x
DA0	H	L	H	L	H	L	H	x

(8) Reference frequency (r_1) code list

kHz Input code	2.5	25	9	10	5	1
DA2	L	L	L	L	H	H
DA1	L	L	H	H	L	H
DA0	L	H	L	H	x	x

(9) IF shift list

kHz Input code	0	25	50	75
DA1	L	L	H	H
DA0	L	H	L	H

(10) FM, SW, MW (LW) signal process list

Input signal		Terminal code	
Signal name	Terminal	FM/AM(18)	SW/MW(17)
FM	(16)	H	X
SW	(15)	L	H
MW (LW)	(15)	L	L

3.4 PLL Synthesizer Tuning System: Theory of Operation

As shown in the Figure, the output frequency of the FM/AM local oscillator is automatically locked to a constant frequency by the PLL network which is operating under microprocessor control.

In the FM mode, part of the local oscillator output is coupled to the FM input terminal of the PLL block via a buffer amplifier (for example, when the received frequency is 98.1 MHz, the local oscillation frequency is $98.1 + 10.7 = 108.8$ MHz).

Meanwhile, the microprocessor accepts frequency data input from the keyboard and provides the data of, say, 98.1 MHz to the display. It also provides frequency dividing-ratio data to the PLL block. Since the reference frequency for the FM mode is 25 kHz, dividing ratio N is determined as follows:

$$N = 108.8 \text{ MHz} \div 0.025 = 4352$$

When the 50 kHz stepping interval is selected in the FM mode, the FM frequency band is between 87.5 and 108.0

MHz, and hence the local frequency band is between 98.2 and 118.7 MHz. As a result, the dividing ratio is between 3928 and 4748.

Once dividing ration is determined, the local oscillation frequency is divided by N, and the resultant signal phase is compared with the reference signal phase. The reference signal is created by dividing the master oscillator output of 4.5 MHz, and its frequency accuracy depends on that of the quartz crystal element used in the master oscillator.

The frequency divided in the PLL block ($108.8 \text{ MHz} \div 435 = 25 \text{ kHz}$) is phase-compared with the reference frequency of 25 kHz, and the phase difference between the two signals is converted by the PLL into a corresponding pulse array. This pulse array is coupled to a low-pass filter, where it is converted into a corresponding DC level, which is then feed back to the local oscillator's control input to control the local oscillator output frequency to a constant.

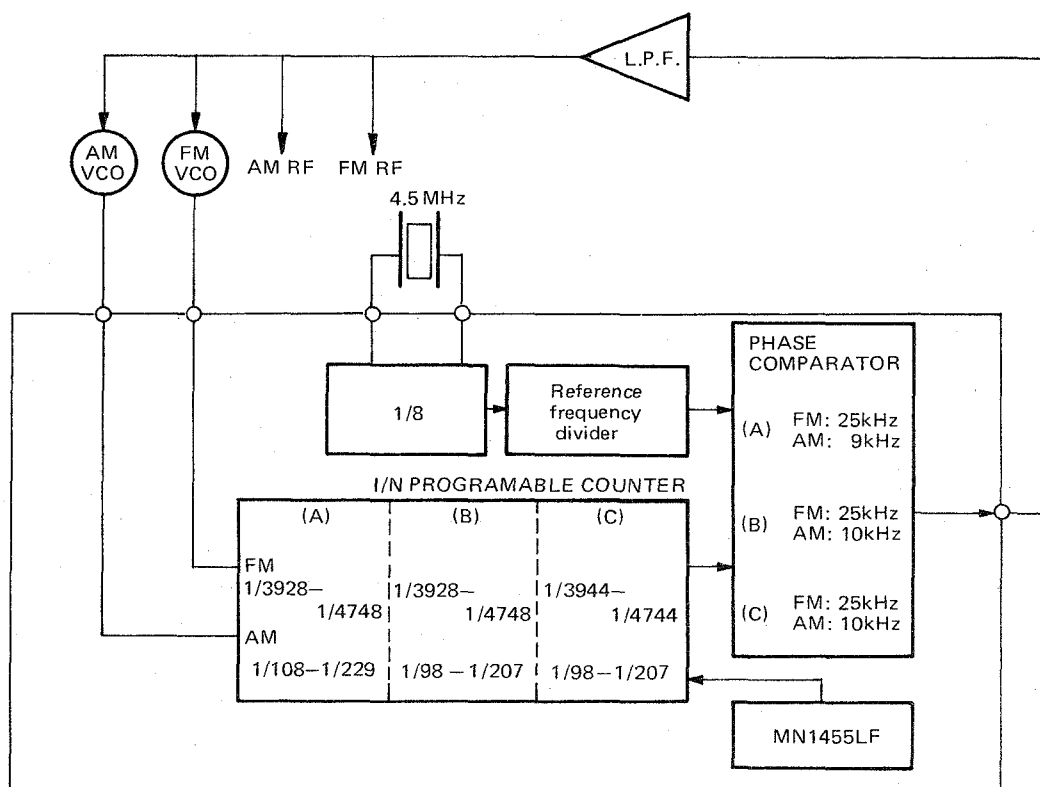


Figure 7.

	Scan Step	Receiving frequency	Local oscillator frequency	Number of channels
(A)	FM 50 kHz	87.50 ~ 108.0 MHz	98.2 ~ 118.7 MHz	411
	AM 9 kHz	522 ~ 1611 kHz	972 ~ 2061 kHz	122
(B)	FM 50 kHz	87.50 ~ 108.0 MHz	98.2 ~ 118.7 MHz	411
	AM 10 kHz	530 ~ 1620 kHz	980 ~ 2070 kHz	109
(C)	FM 200 kHz	87.9 ~ 107.9 MHz	98.6 ~ 118.6 MHz	101
	AM 10 kHz	530 ~ 1620 kHz	980 ~ 2070 kHz	109

3.5 Description of Switches

Switch and Key Matrix

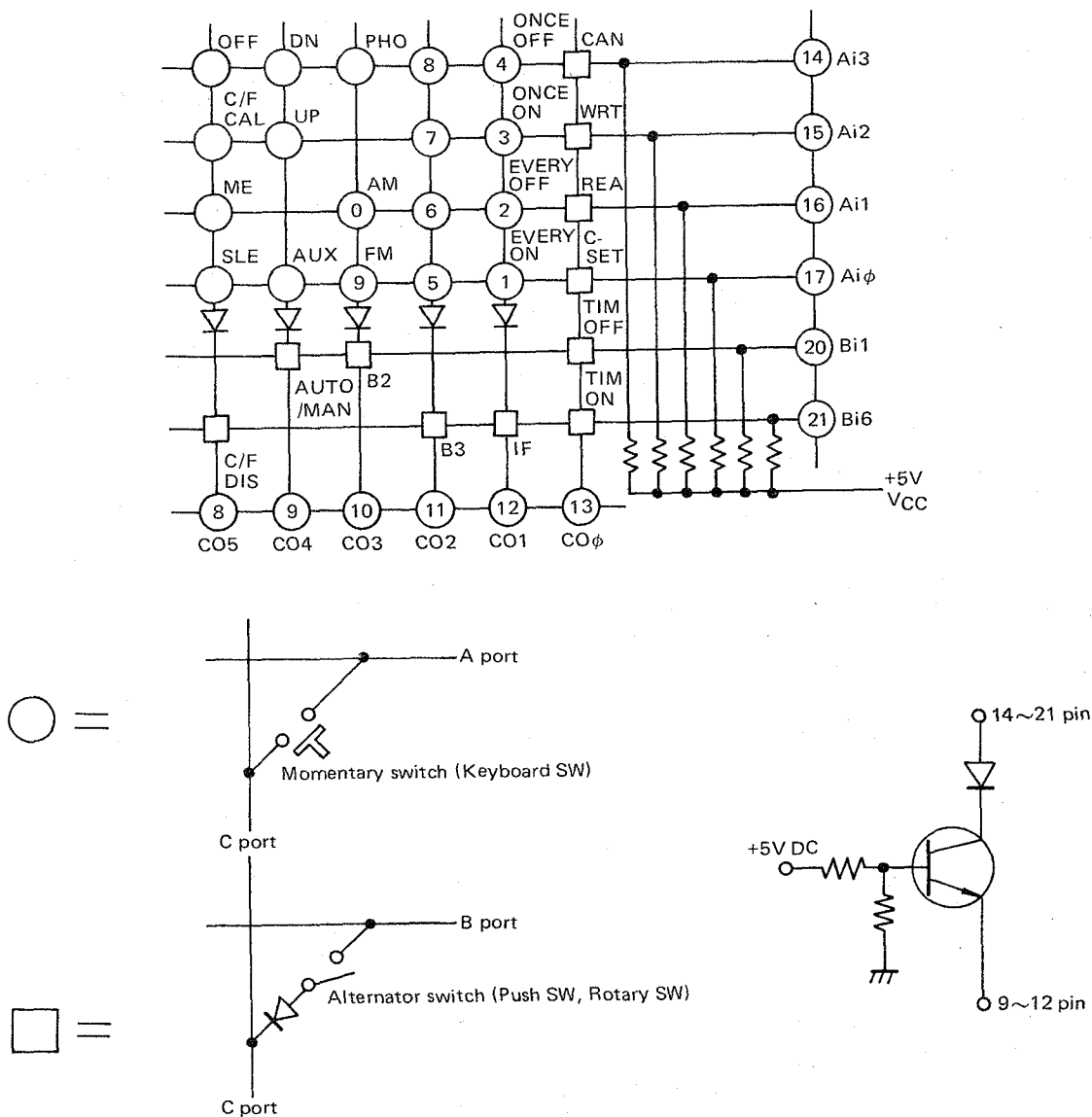


Figure 8.

Switches 0–9: these switches are used for read/write operations for memories CH.1-8, timer set-up, and read/write operations for EVERY ON/OFF and ONCE ON/OFF data.

UP/DN switches: when the Auto/Manual switch is set at Auto, pressing these switches scans frequencies up or down until a search signal is input.

When the switch is set at Manual, each depression of these switches steps up or down the frequency by one step. When the switches are held down continuously for more than 1 second, continuous frequency scanning starts.

FM/AM/PHONO/AUX: select input program sources. The FM and AM selector switches are shared by the 9 and 0 numerical keys.

C/F CALL: recalls time and frequency data for 5 seconds.
C/F DISPLAY: switches between time and frequency display.

SLE: used to set up the sleep timer function. This switch function is independent of the timer function.

AUTO/MANUAL: switches between the muting and scanning functions in the FM mode.

B2/B3: select scan stepping intervals with the following combinations:

AM (kHz)	FM (kHz)	B2	B3
9	50	OFF	OFF
10	50	OFF	ON
10	200	ON	ON

IF: controls the intermediate frequency in the FM mode over +25 kHz.

CANCEL: WRT, REA, C, SET, MANUAL.

TIMER: selects timer modes.

Indicator

The indicator employs fluorescent tubes for dynamic lighting.

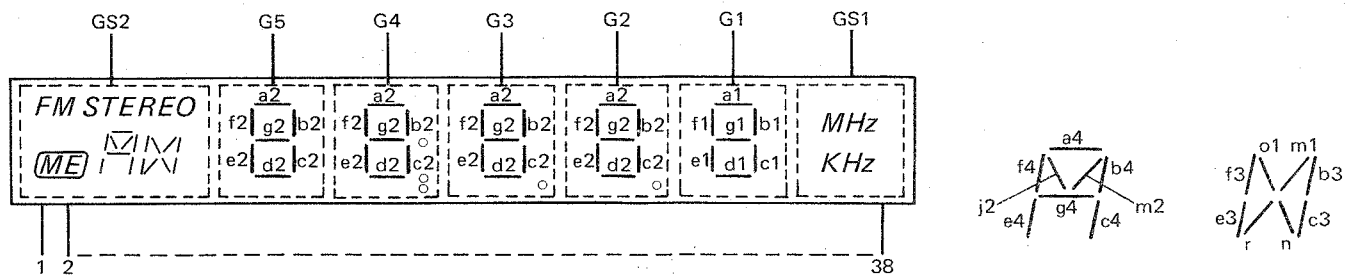


Figure 9.

Pin No.	Connection	Pin No.	Connection	Pin No.	Connection	Pin No.	Connection
1	F	11	b ₄	21	G ₃	31	a ₂
2	FM STEREO	12	a ₄	22	e ₂	32	g ₁
3	ME	13	G ₅	23	Dp ₃	33	b ₁ , e ₁
4	GS ₂	14	j ₁ , m ₁	24	Dp ₂	34	GS ₁
5	j ₂ , m ₂	15	n, r	25	d ₂	35	a ₁ , f ₁ , c ₁ , d ₁
6	g ₄	16	b ₃ , c ₃ , e ₃ , f ₃	26	G ₂	36	kHz
7	e ₄	17	G ₄	27	Dp ₁	37	MHz
8	d ₄	18	g ₂	28	C ₂	38	F
9	c ₄	19	f ₂	29	b ₂		
10	GS ₂	20	Col	30	G ₁		

Details of display

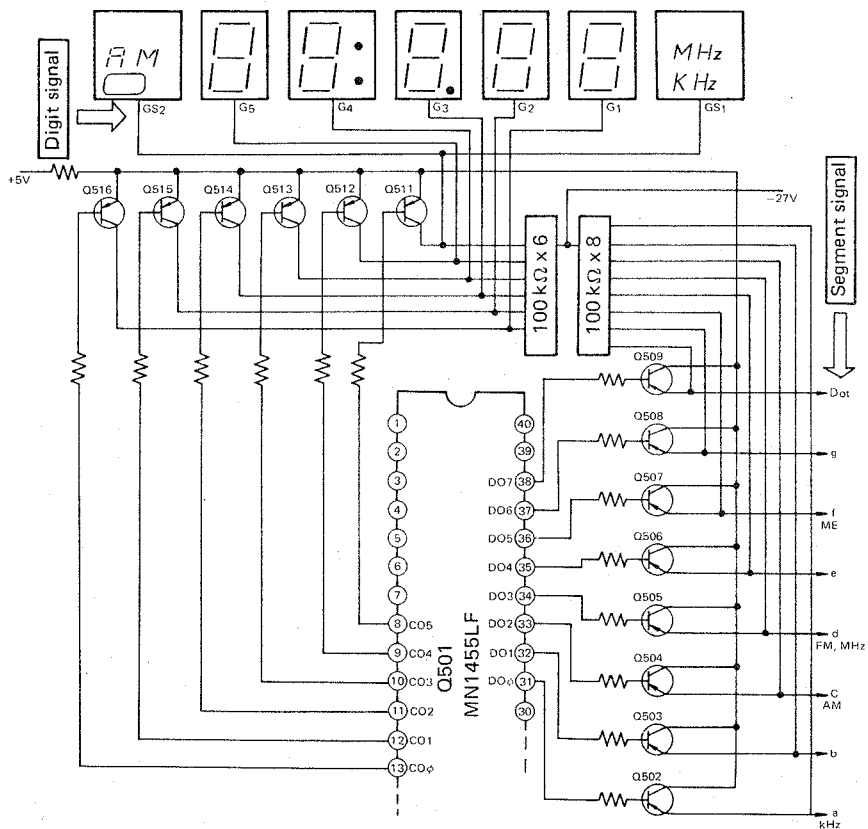


Figure 10.

Dynamic lighting timing chart

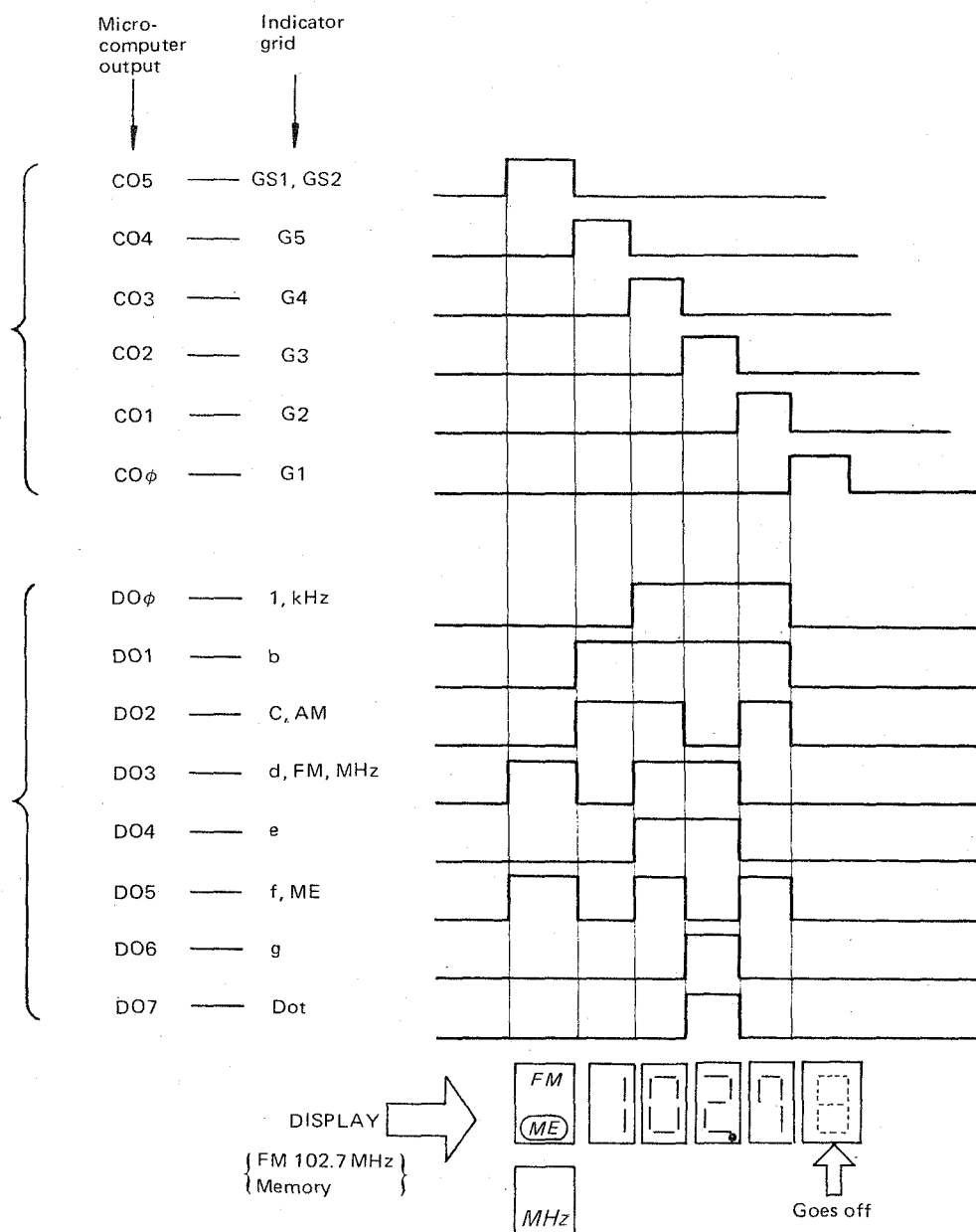


Figure 11.

4. ALIGNMENT PROCEDURES

AUDIO ALIGNMENT (FUNCTION switch in AUX position and VOLUME control in the minimum position at NO load)

4.1 DC of set (Adjust with a digital volt meter.)

Test point — SPK out (L & R)
 Adjusting point — R705 (L), R706 (R)
 Specified values — 0 mV

4.2 Idling current (Adjust with a digital volt meter.)

Test point — J705 ~ J706 (L), J707 ~ J708 (R)
 Adjusting point — R717 (L), R718 (R)
 Specified value — 13.2 mV (20 mA)

A dummy resistor of 47 kohms must be connected across the tuner output terminals before alignment.

4.3 FM Alignment Procedures (Selector switch in the "FM" position and mode/tuning switch in the "Mono/Manual" position)

FM Local Oscillator Alignment (Scan step selector switch (SC51) in the "50 kHz" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1			DC Volt meter in 30V and 3V range to point (A) (J116)	108.00 MHz	C142 for 20.0V
2				87.50 MHz	L104 for 3.0V
3	Repeat steps 1 and 2.				

FM RF Alignment

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1	RF generator to FM antenna terminals (B) through matching network (300 ohms balanced) (Maintain RF level below limit)	106.10 MHz	VTVM to L or R channel output (JJ01 or JJ02)	106,10 MHz	C101, C105, C107 for maximum output and minimum distortion
2		90.10 MHz		90.10 MHz	L101, L102, L103 for maximum output and minimum distortion
3	Repeat steps 1 and 2.				
4	RF generator to FM antenna terminals (B) through matching network (300 ohms balanced) (Maintain RF level below limit)	98.10 MHz	VI VM to L or R channel output (JJ01 or JJ02)	98.10 MHz	L106 for maximum output and minimum distortion
5		98.10 MHz	“O” Center Meter or DC current meter in 100 μ A range to point (C) (J109 and J110)		L108 Core so that the meter indicator its center or may read “O”
6	RF generator 1 mV output to FM antenna terminals B through maching network (300 ohms, balanced)	98.10 MHz	Distortions meter to L or R Channel output (JJ01 or JJ02)	98.10 MHz	L108 core for mini- mum distortion
7	RF generator 300 μ V				R136 so that signal Strength Led may light 5 points

Muting Circuit Alignment (FM Stopping Level of Scanning, FM Stereo indicator threshold Level)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1	RF generator 12.5 μ V output to FM antenna terminal (B) network (300 ohms balanced)	98.10 MHz	VTVM to R or L channel output (JJ01 or JJ02)	98.10 MHz	R131 for 12.5 μ V threshold Level (Setting to Auto position of mode switch & Low Level position of threshold Level switch)

Multiplex Alignment Procedures (Function switch in the "FM" position, Auto/Manual switch in the Auto position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1	RF generator to FM antenna terminals (B) through matching network (300 ohms, balanced), with 1 mV FM stereo simulator RF level and Pilot 9% modulation	No. modulation & pilot off	Frequency counter to point (D) (J111)	98.10 MHz	R304 so that Frequency counter may precisely read 76 kHz
2		Pilot only	VTVM to right and left channel output (JJ01 or JJ02)		R307 so that minimum output should be the same in both channels
3	RF generator to FM antenna terminals (B) through matching network (300 ohms balanced) with 1 mV FM stereo simulator RF level and 100% modulation (pilot 9%)	Stereo, left (1,000 Hz)	VTVM to right channel (JJ01 or JJ02)	98.10 MHz	R322 for minimum output and same separation in both channels
4		Stereo right (1,000 Hz)	VTVM to left channel output terminal (JJ01 or JJ02)		
5	Repeat step 3 and 4.				

4.4 AM ALIGNMENT Procedures (Function Switch in the "AM" position)

AM Local Oscillator Alignment (Scan Step Selector switch (SC51) in the "10 kHz" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1	—	—	DC Volt meter in 30V and 3V range to point (A) (J116)	1620 kHz	CA16 for 22V
2				530 kHz	LA02 for 2.0V
3	Repeat step 1 and 2.				

AM IF Alignment

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1	Sweep generator to point (E) (JA07)	450 kHz marker	Oscilloscope to point (F) (JA03)	Quiet point on band	LA03 for maximum and symmetric response

AM RF Alignment

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1	Apply the signal to the AM loop antenna from the RF generator, using the test loop. As par the Figure 12 (with 3 mV/m)	1400 kHz	VTVM to L or R Channel output (JJ01 or JJ02)	1400 kHz	CA02 for maximum output
2		600 kHz		600 kHz	LA01 for maximum output
3	Repeat step 1 and 2 as necessary to obtain maximum sensitivity.				
4		1000 kHz		1000 kHz	RA11 so that signal strength LED may light 5 point

PLL Oscillator Alignment (Function Switch in the "AM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1	No signal	—	Frequency counter to point (G) (J117)	1400 kHz	C515 so that frequency may precisely read 1850,000 kHz

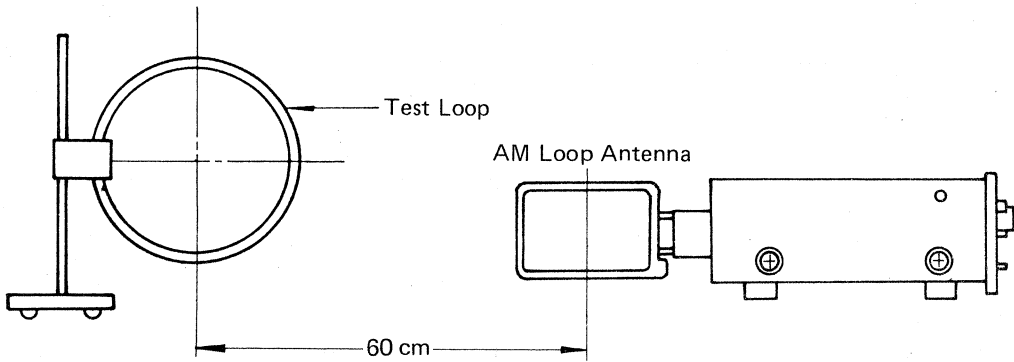


Figure 12.

5. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.

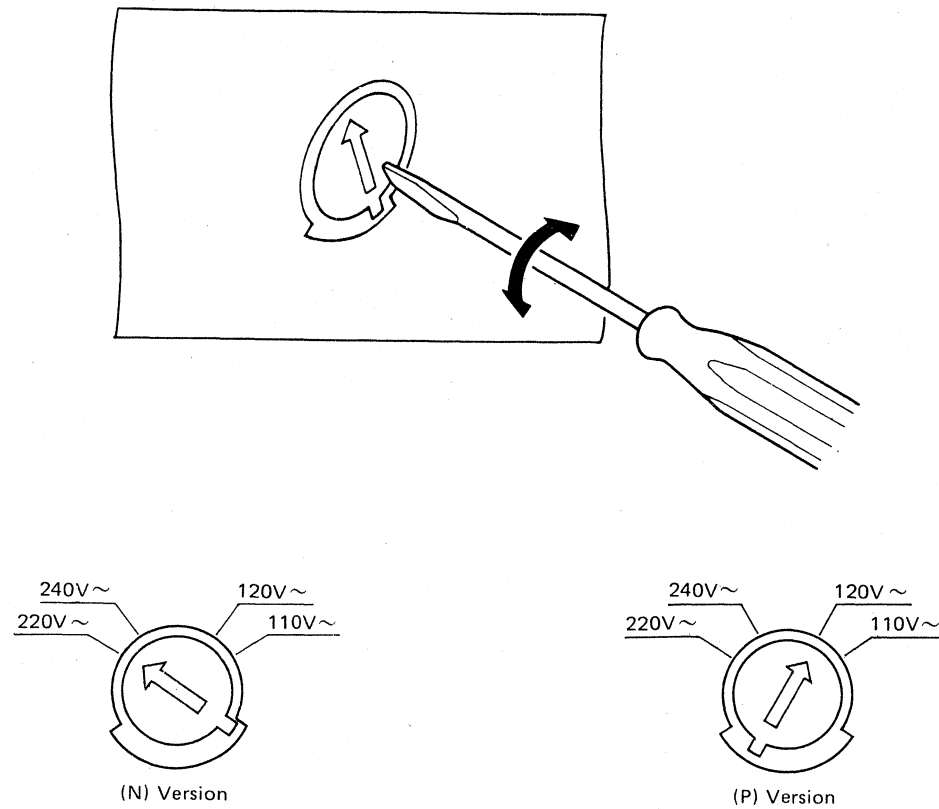


Figure 13. Voltage Conversion

NOTE ON SAFETY: THE PARTS MARKED WITH ⚠ ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBERS WITHOUT FAIL.

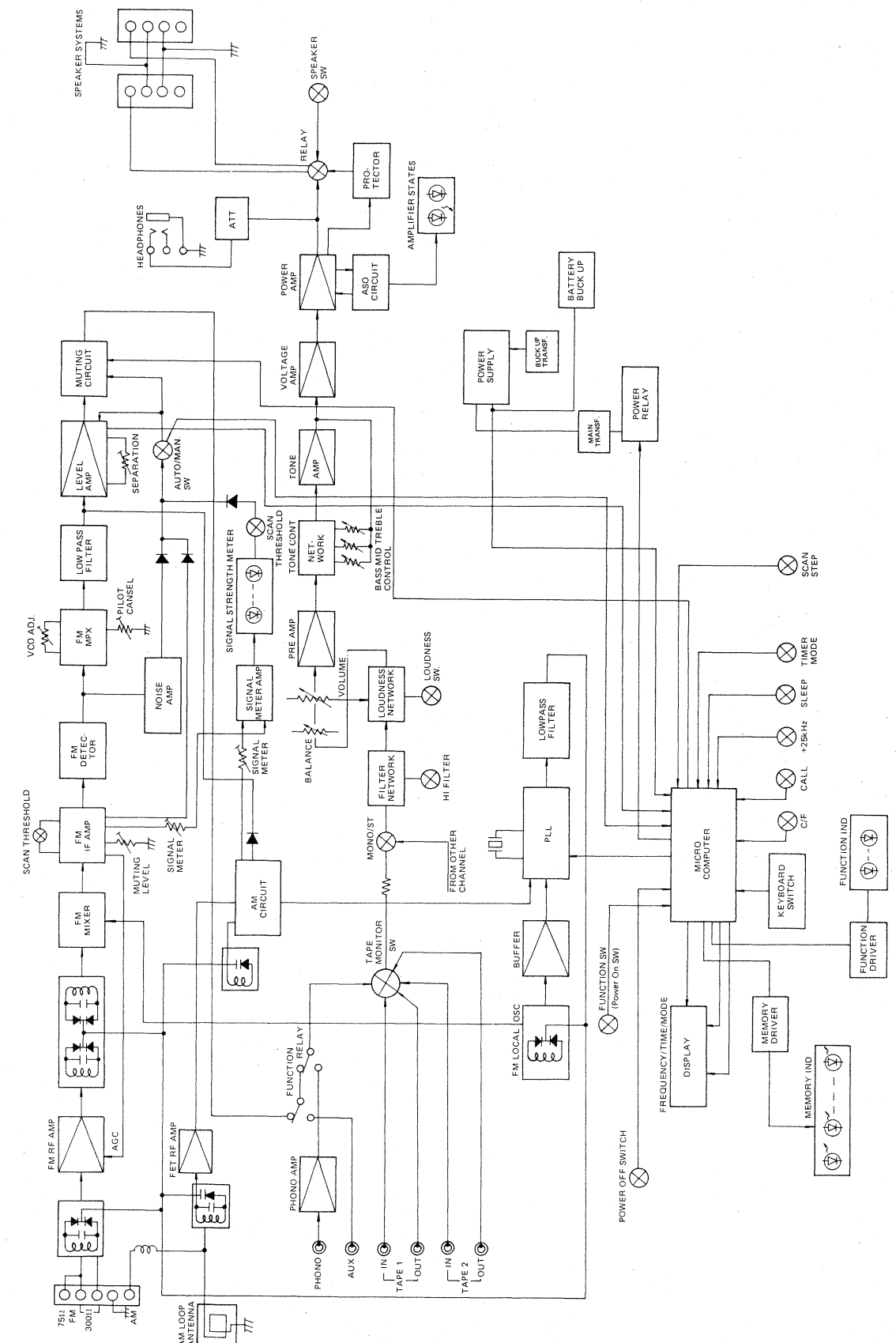
FTZ REGULATION

Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

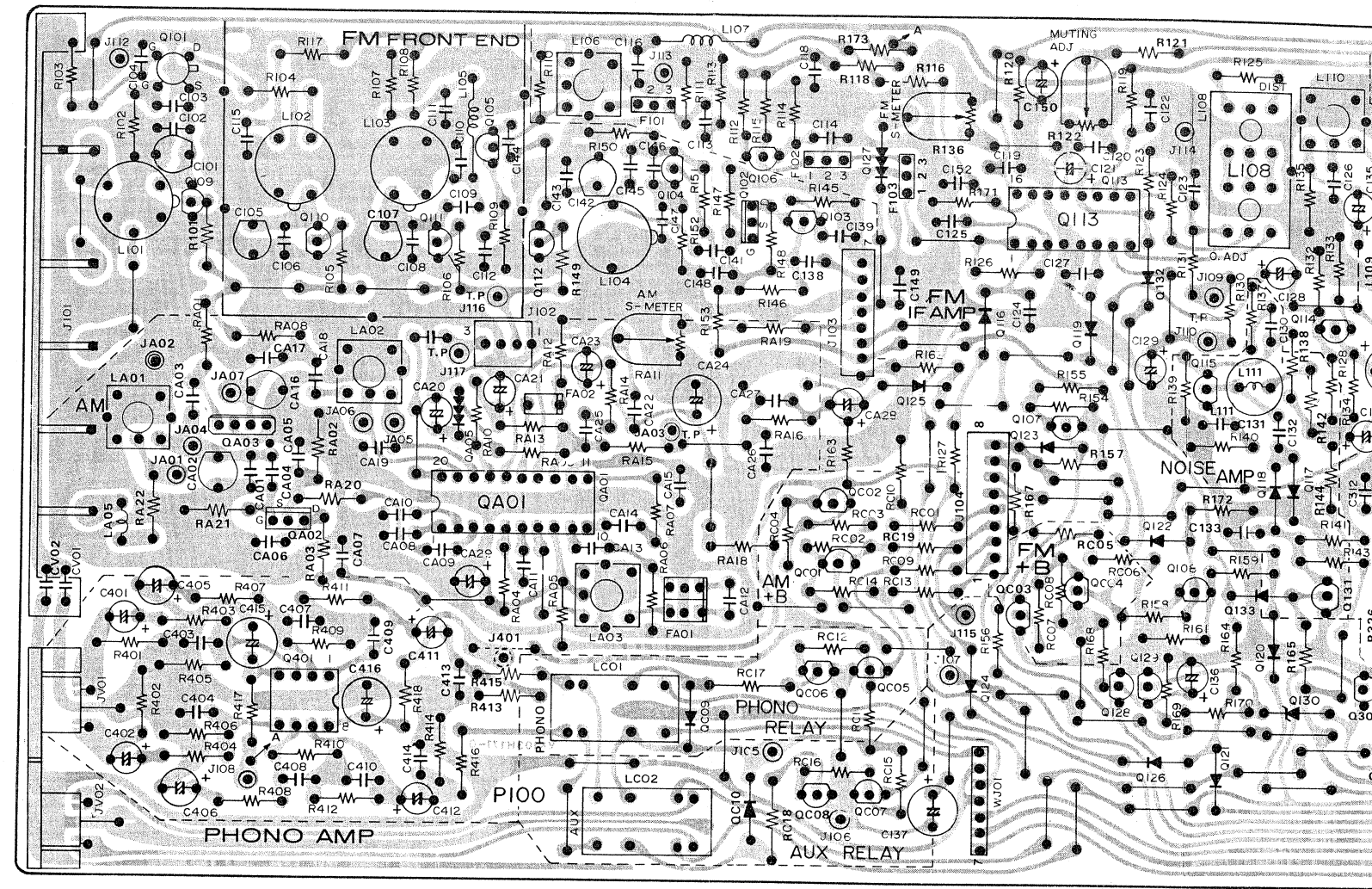
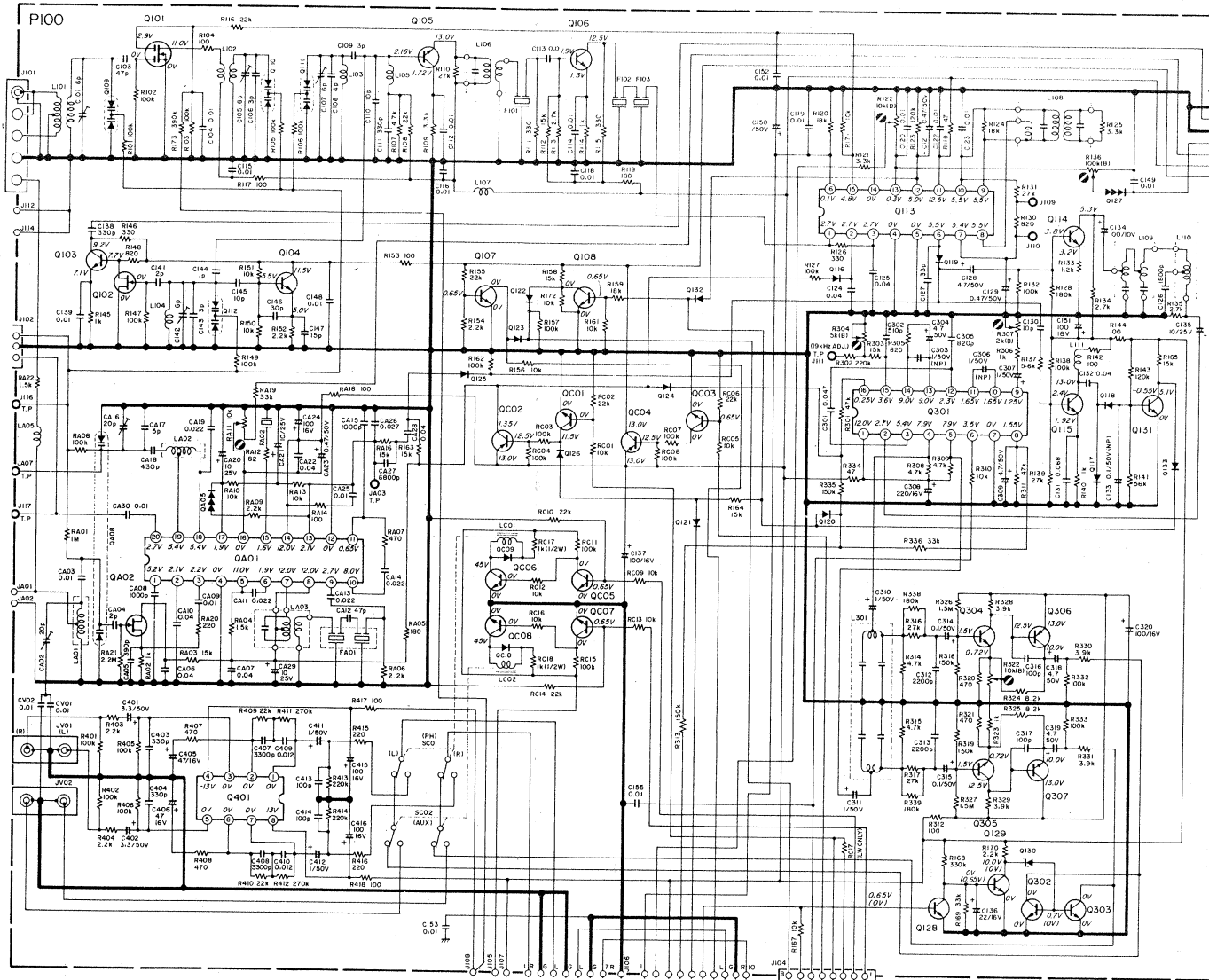
Sollte das Gerät auch für Frequenzen ausserhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangsbereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

6. BLOCK DIAGRAM

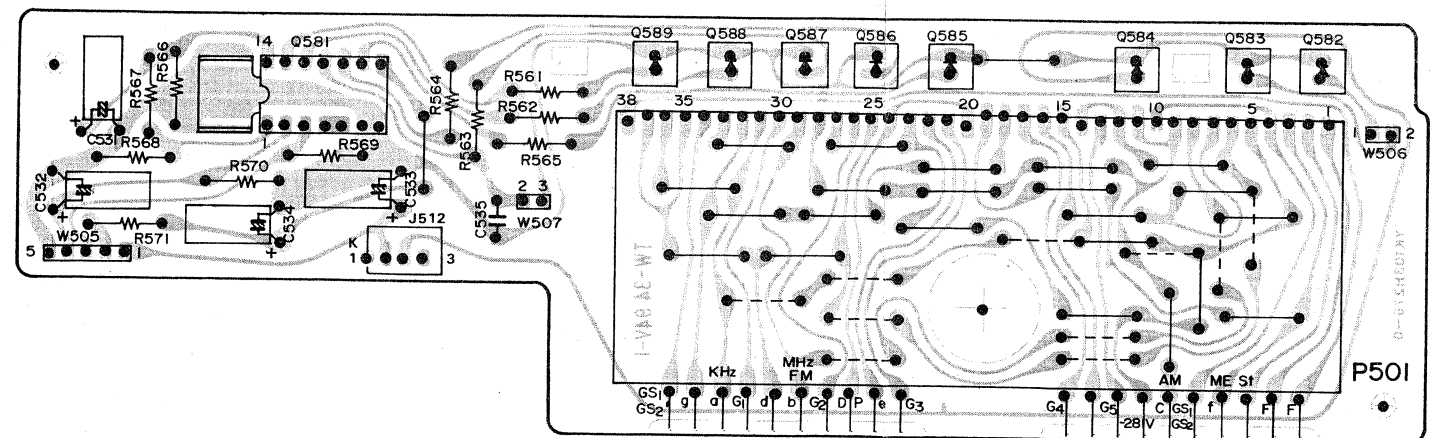
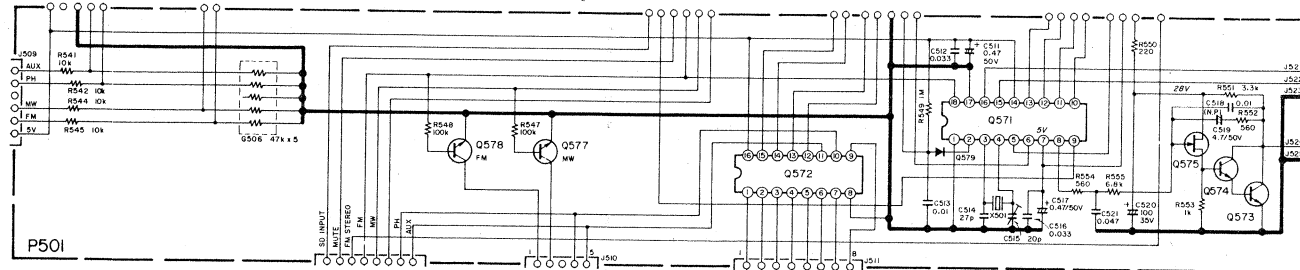


7. DIAGRAM AND COMPONENT LOCATIONS

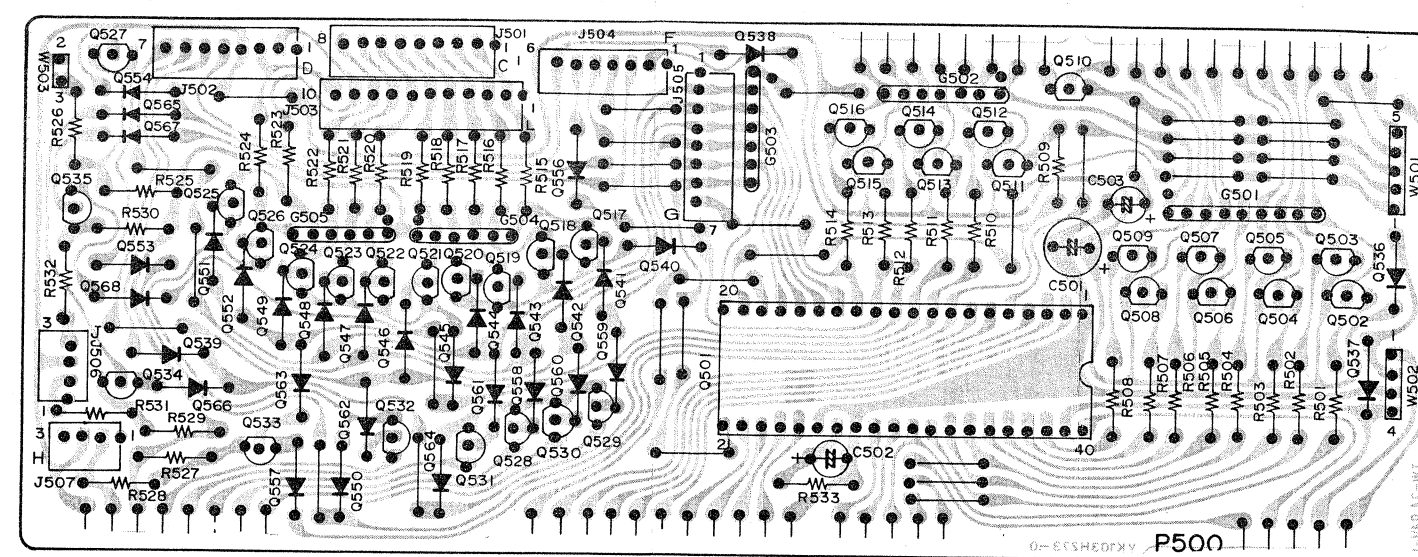
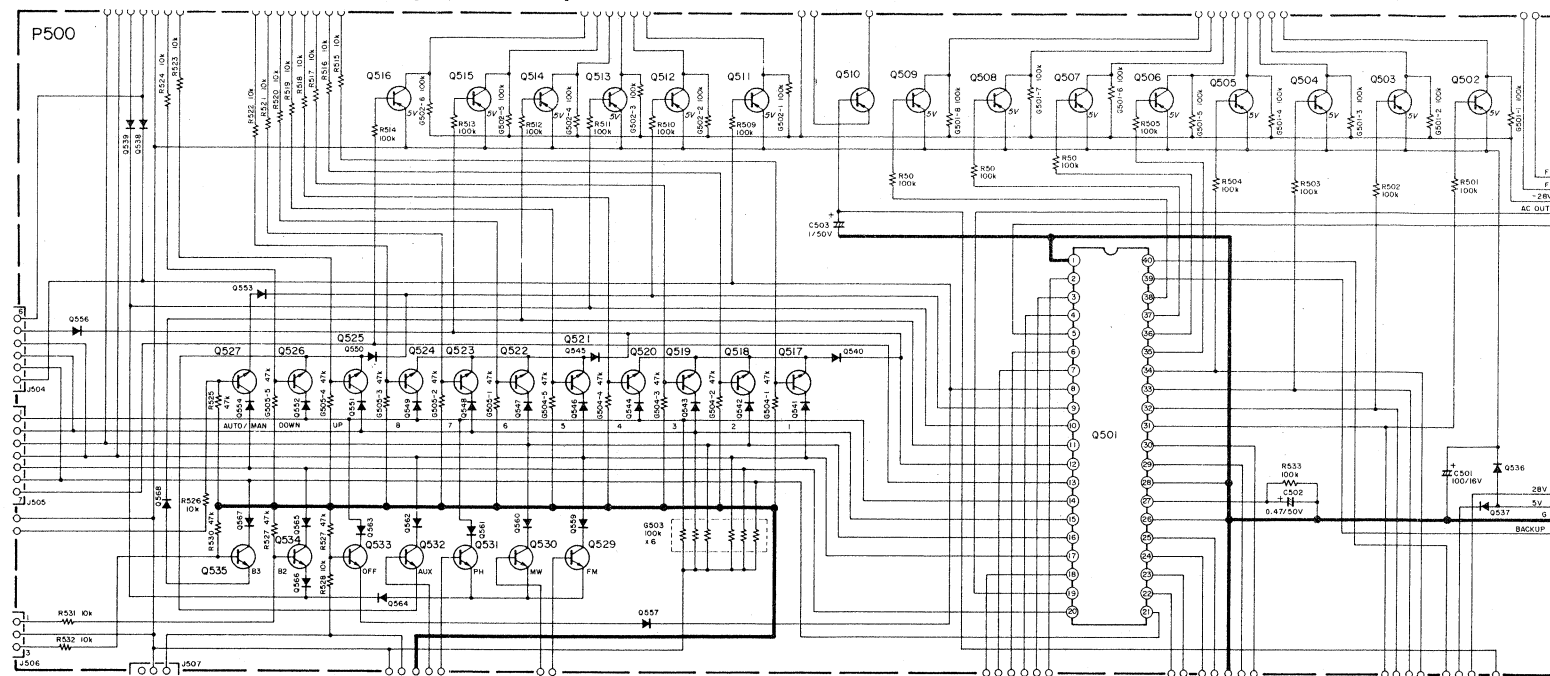
7.1 Tuner/Phono Amp. (P100) Schematic Diagram and Component Locations



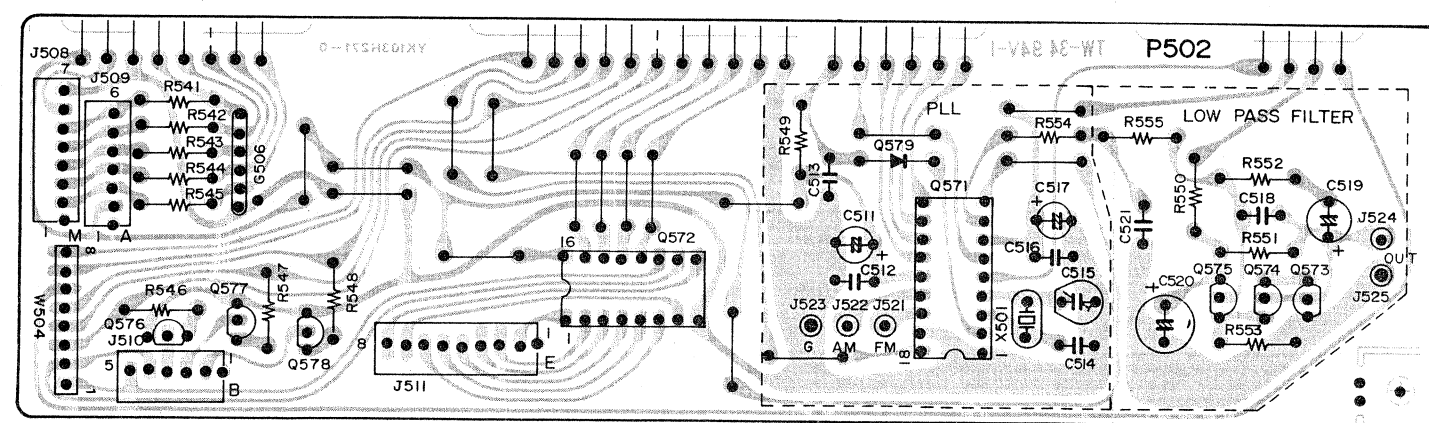
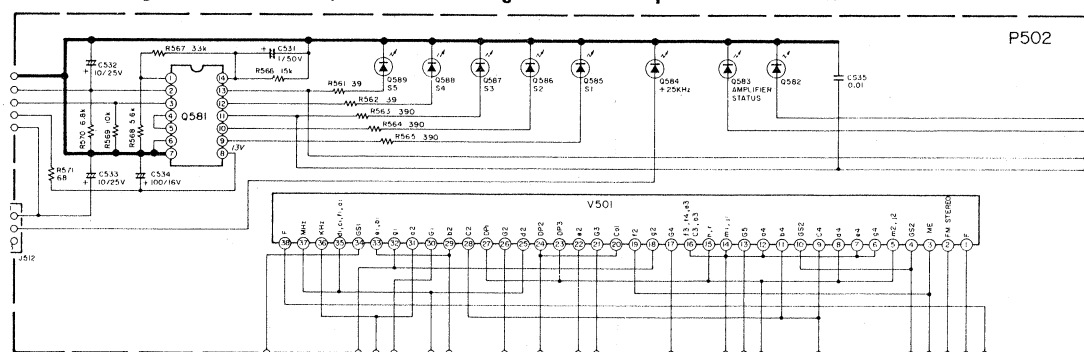
7.2 PLL/L.P.F. (P501) Schematic Diagram and Component Locations



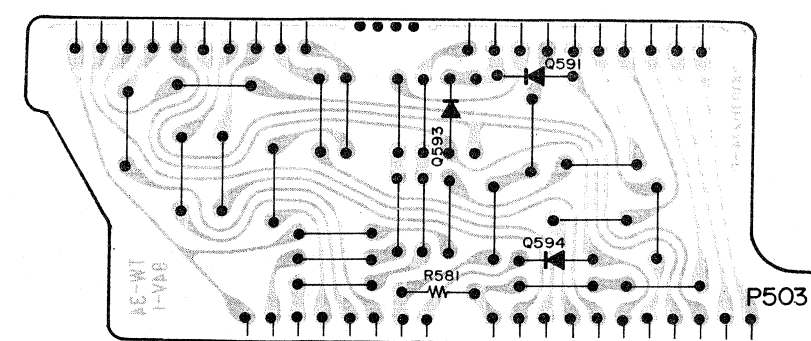
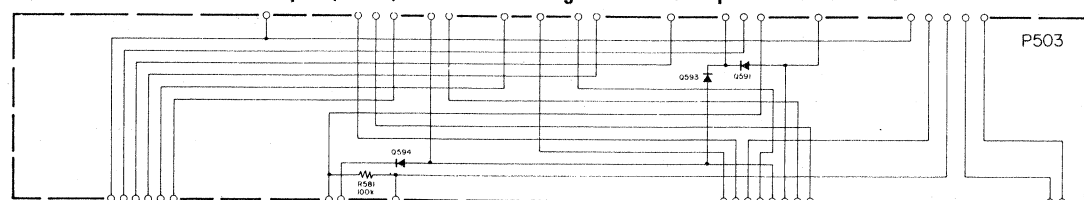
7.6 Controller (P500) Schematic Diagram and Component Locations



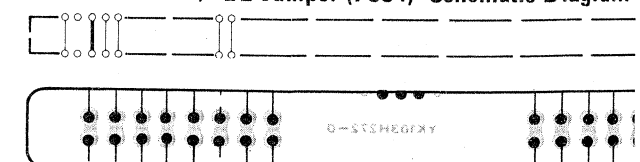
7.7 VFL/Signal L.E.D. (P502) Schematic Diagram and Component Locations

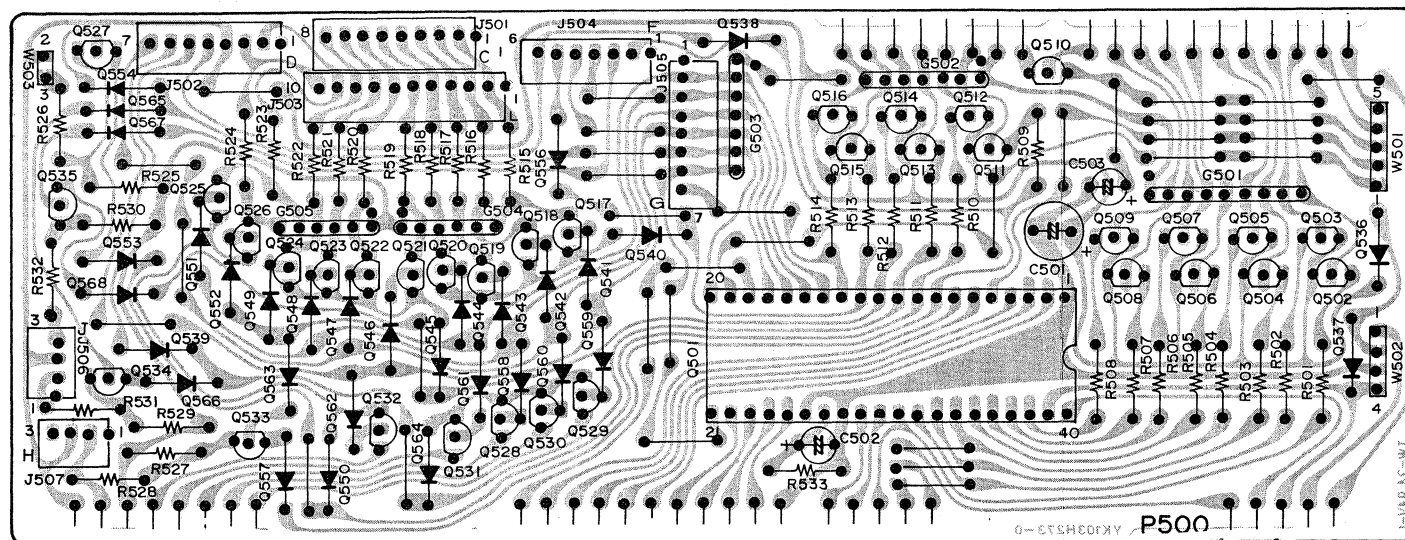
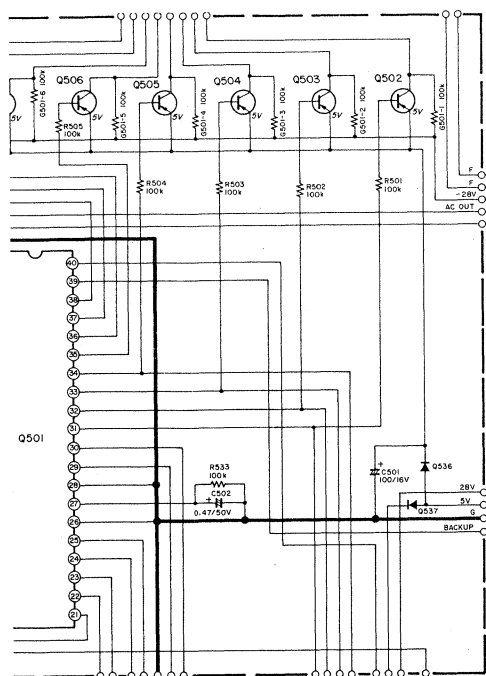


7.8 Controller/F.I.P. Jumper (P503) Schematic Diagram and Component Locations

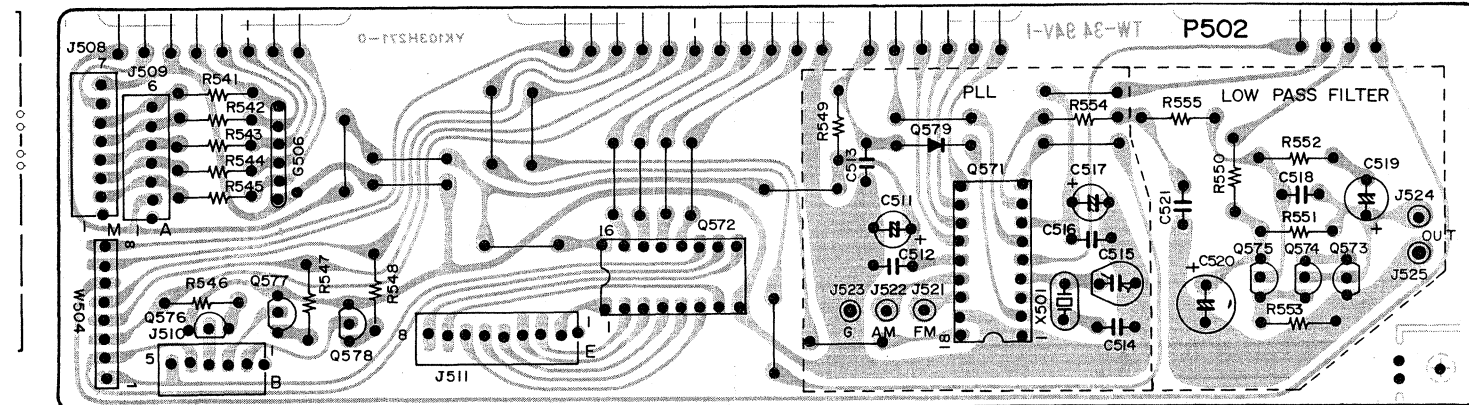
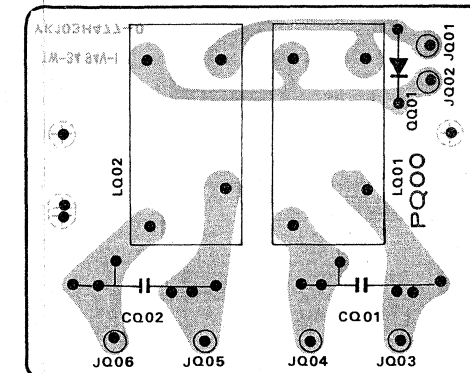
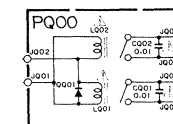


7.11 Controller/PLL Jumper (P504) Schematic Diagram

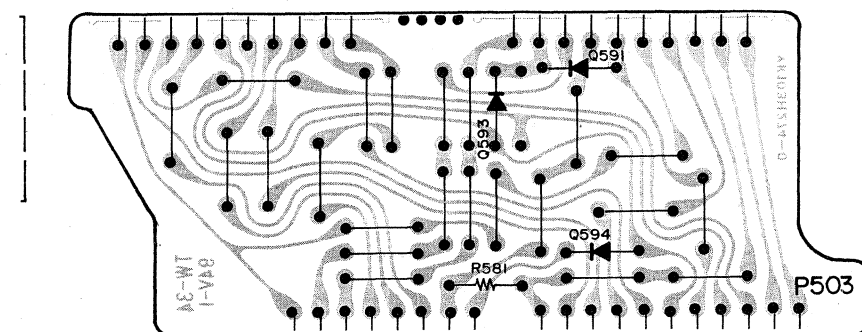
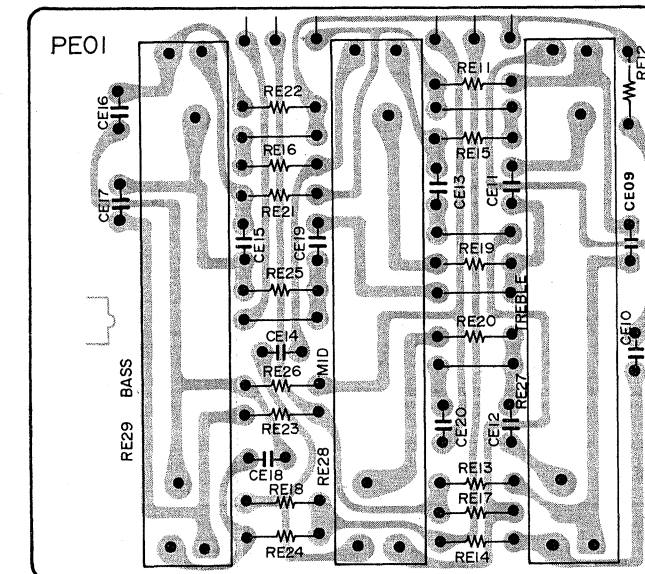
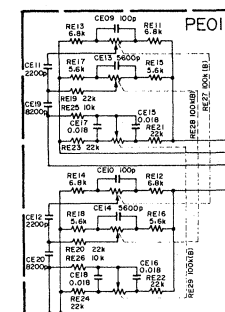




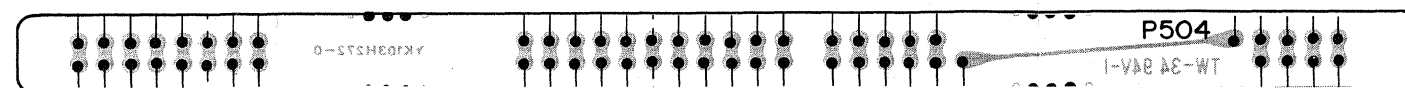
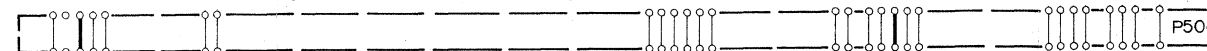
7.9 AC Power Relay (PQ00) Schematic Diagram and Component Locations



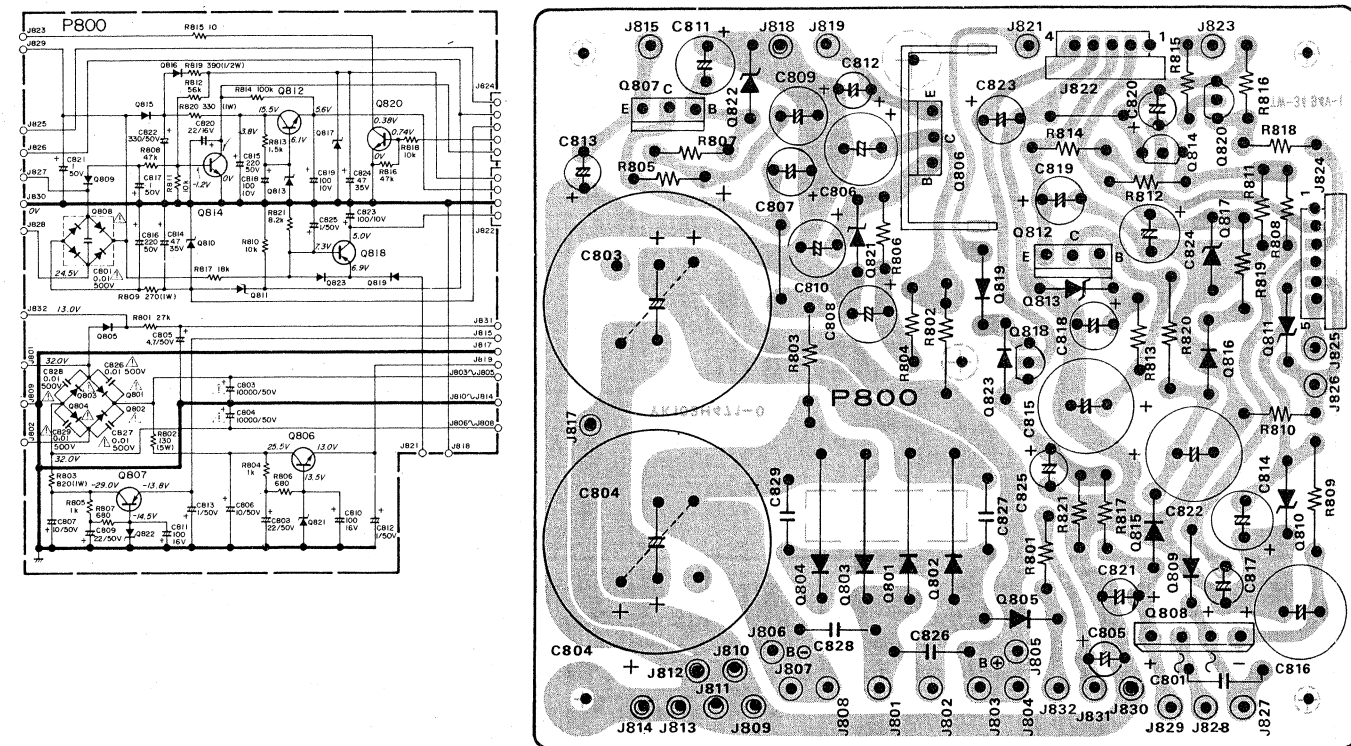
7.10 Tone Volume (PE01) Schematic Diagram and Component Locations



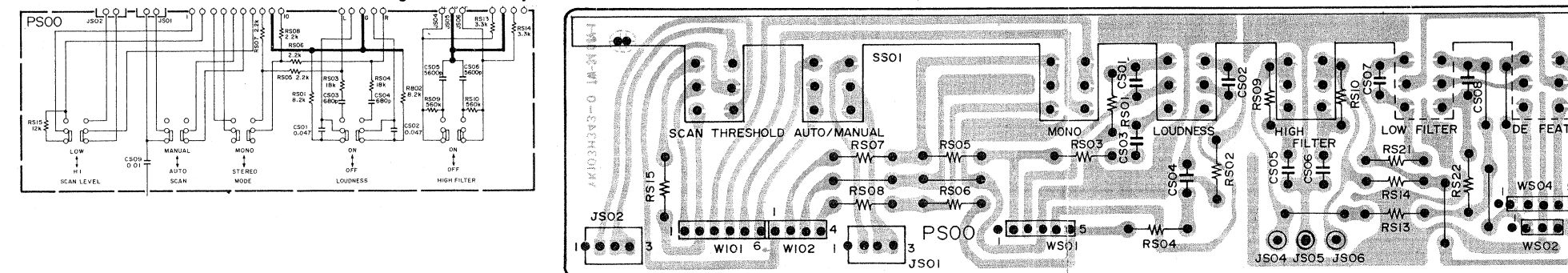
7.11 Controller/PLL Jumper (P504) Schematic Diagram and Component Locations



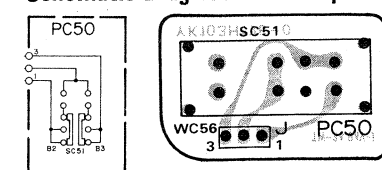
7.19 Power Supply (P800) Schematic Diagram and Component Locations



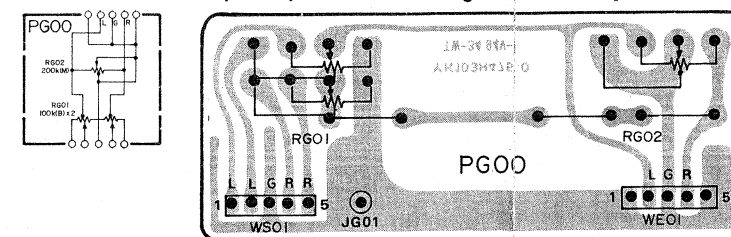
7.20 Filter/Loudness (PS00) Schematic Diagram and Component Locations



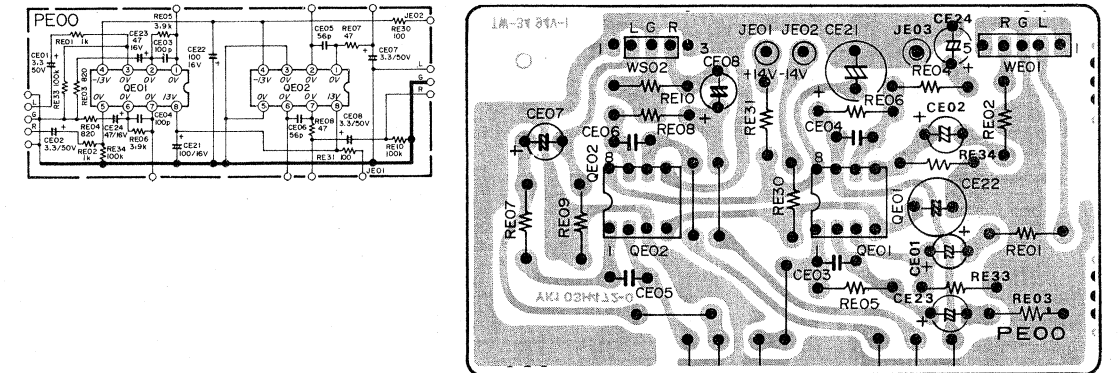
7.21 Scan Step Switch (PC50) Schematic Diagram and Component Locations



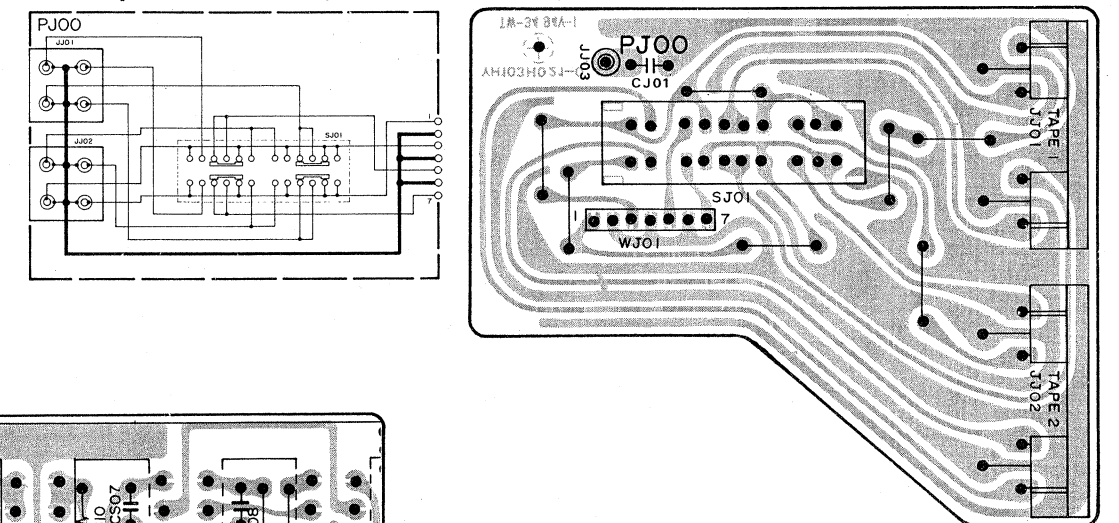
7.22 Vol/Balance (PG00) Schematic Diagram and Component Locations



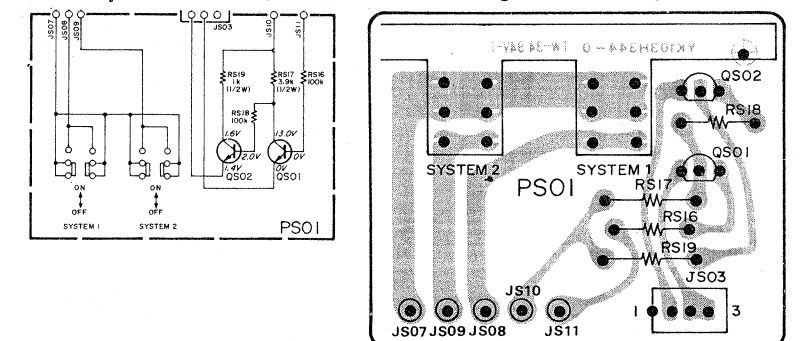
7.23 Tone Amp. (PE00) Schematic Diagram and Component Locations



7.24 Tape Monitor Switch (PJ01) Schematic Diagram and Component Locations

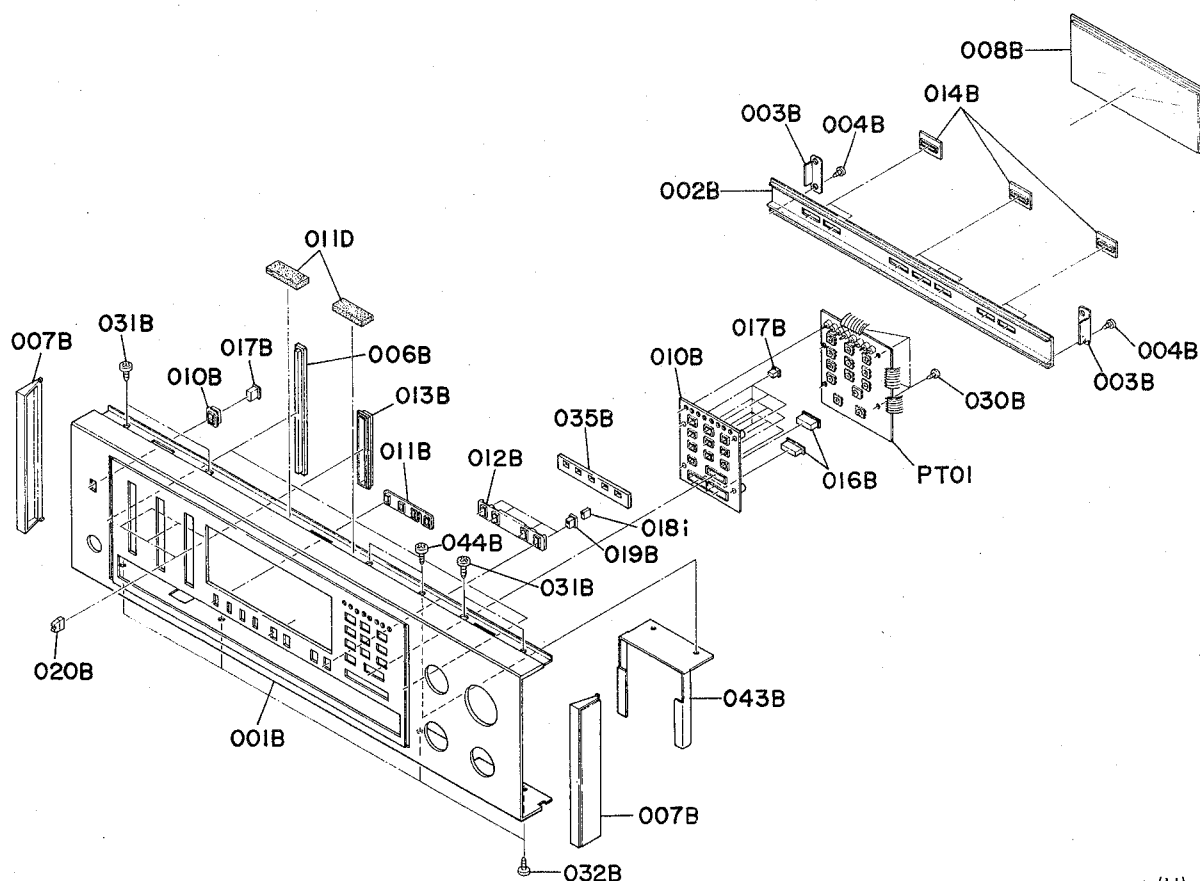


7.25 Speaker Switch (PS01) Schematic Diagram and Component Locations



8. EXPLODED VIEW AND PARTS LIST

8.1 [C01-99] Front Panel

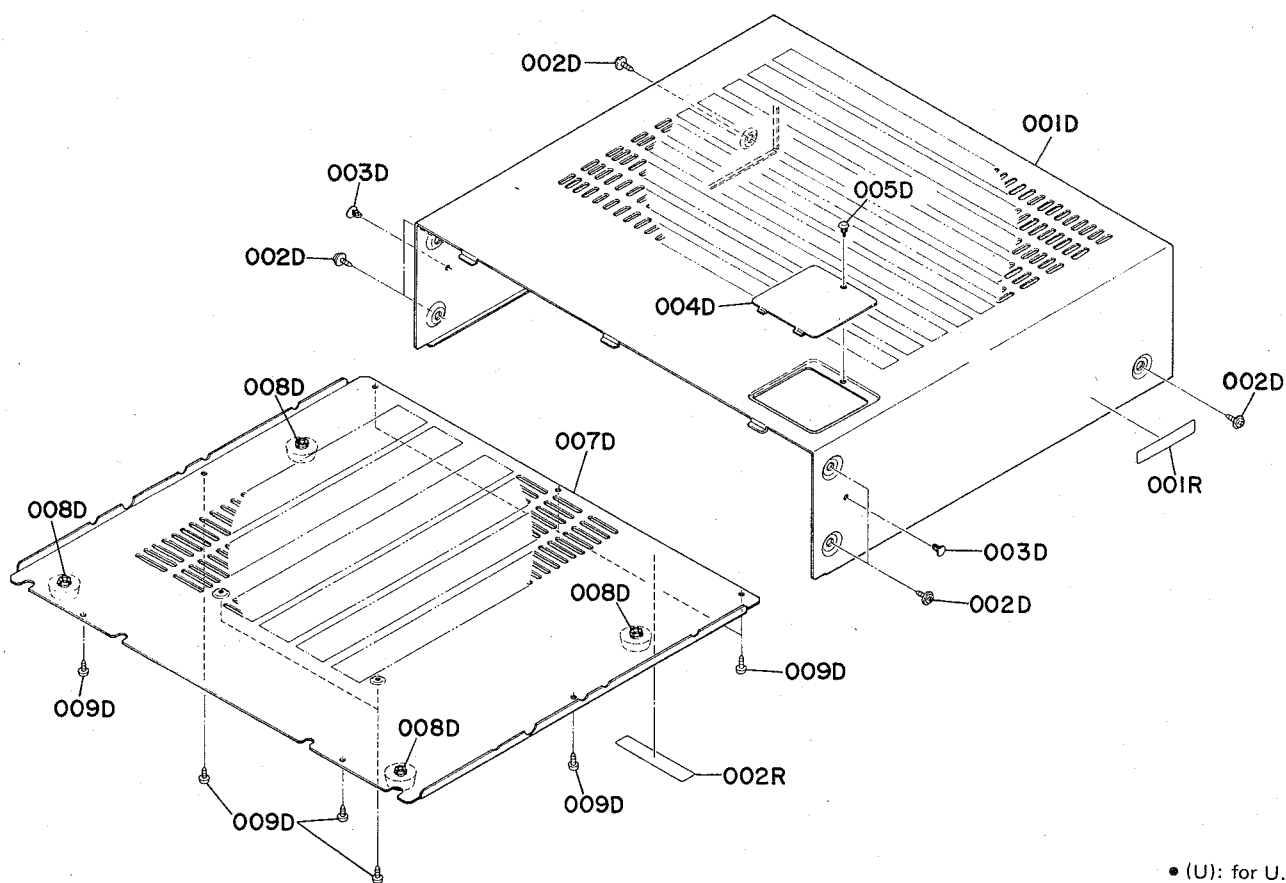


- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
A	1	1		103H063400	Front Panel Assembly
A ₁			1	103H063410	Front Panel Assembly
001B	1	1		103H063120	Escutcheon, Front Panel
001B			1	103H063130	Escutcheon Front Panel
002B	1	1	1	103H063050	Escutcheon, Sub Panel
003B	2	2	2	103H063030	Escutcheon, Sub Panel Side
004B	2	2	2	51280304B0	B.H. Tapped Screw B3 x 4
006B	2	2	2	211H063020	Escutcheon
007B	2	2	2	211H067010	Cap, Panel Side
008B	1	1	1	103H158010	Window
010B	1	1	1	103H259010	Bushing
011B	1	1	1	103H259030	Bushing
012B	1	1	1	103H259020	Bushing, Function Switch
013B	3	3	3	2129259020	Bushing, Tone Control
014B	7	7	7	208H259010	Bushing, Push Switch
035B	1	1	1	103H056010	Buffer, Function Switch

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
016B	3	3	3	103H154020	Knob, Memo/Scan
017B	11	11	11	103H154030	Knob, Preset/Power OFF
019B	4	4	4	103H154050	Knob, Function Switch
020B	3	3	3	2129154040	Knob, Tone Control
030B	4	4	4	51302606B0	P.H. Tapped Screw P2.6 x 6
031B	4	4	4	51280306B0	B.H. Tapped Screw B3 x 6
032B	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
043B	1	1	1	103H160120	Bracket
044B	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
011D	2	2		2965118010	Spacer
018i	4	4	4	103H259050	Bushing

8.2 [C02-99] Top Cover

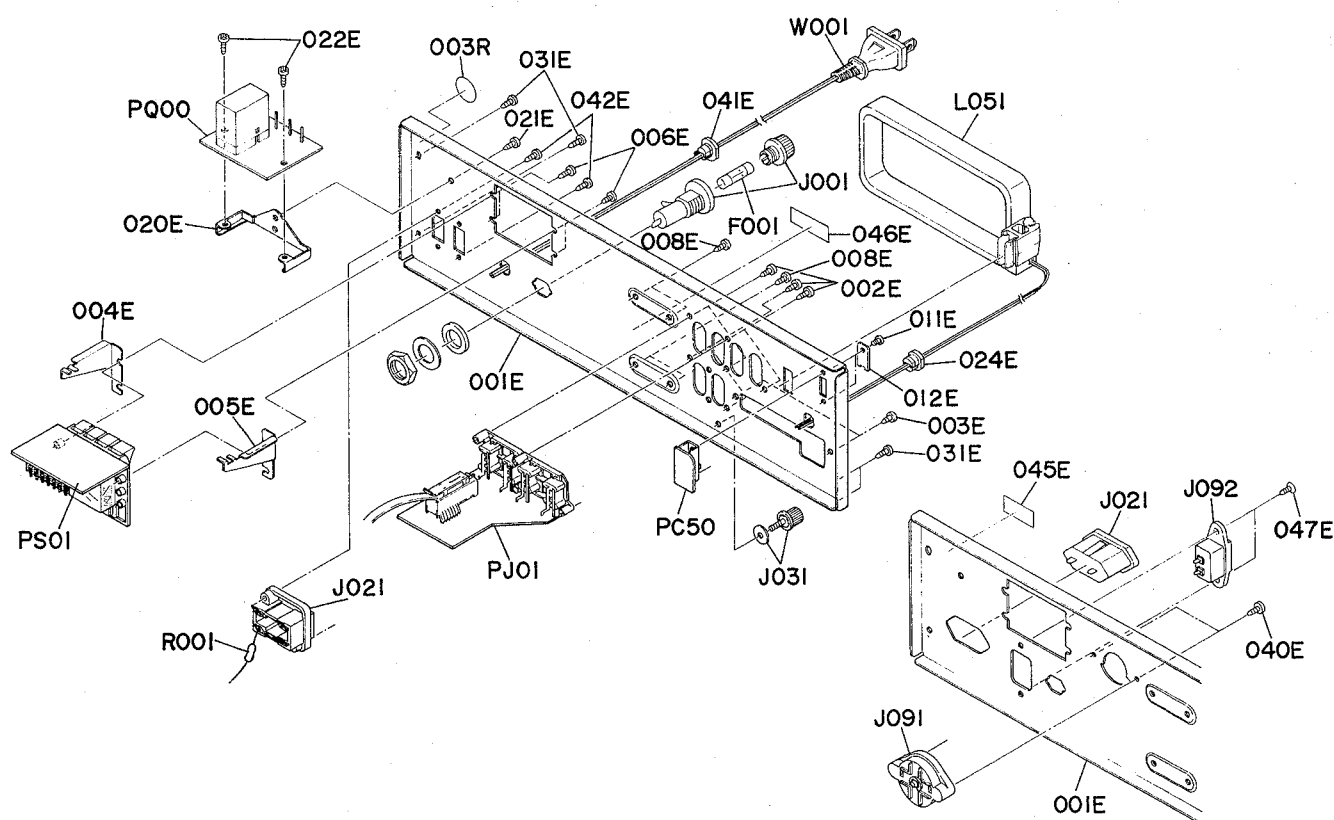


- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
001D	1	1		103H257010	Lid, Top Cover
002D	6	6		51260408Z0	B.T. Screw B4 x 8
003D	2	2		2991259110	Bushing
004D	1	1		103H257020	Lid, Battery Cover
005D	1	1		2276005050	Clumper
007D	1	1		103H257030	Lid, Bottom Cover
008D	4	4		403H057010	Leg
009D	9	9		51280308B0	B.H. Tapped Screw B3 x 8
001D			1	103H064500	Case Wood Case K.
002D			5	51260320U0	B.T. Screw B3 x 20
003D			1	2116003010	Punched Plate
004D			4	2908057010	Leg
005D			4	51524116A0	R.H. Wood Screw
007D			1	103H257030	Lid
009D			4	51280308B0	B.H. Tap Screw

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
001R	1	1	1	2932861110	Label
002R	1	1	1	2578861010	Label

8.3 [C03-99] Rear panel

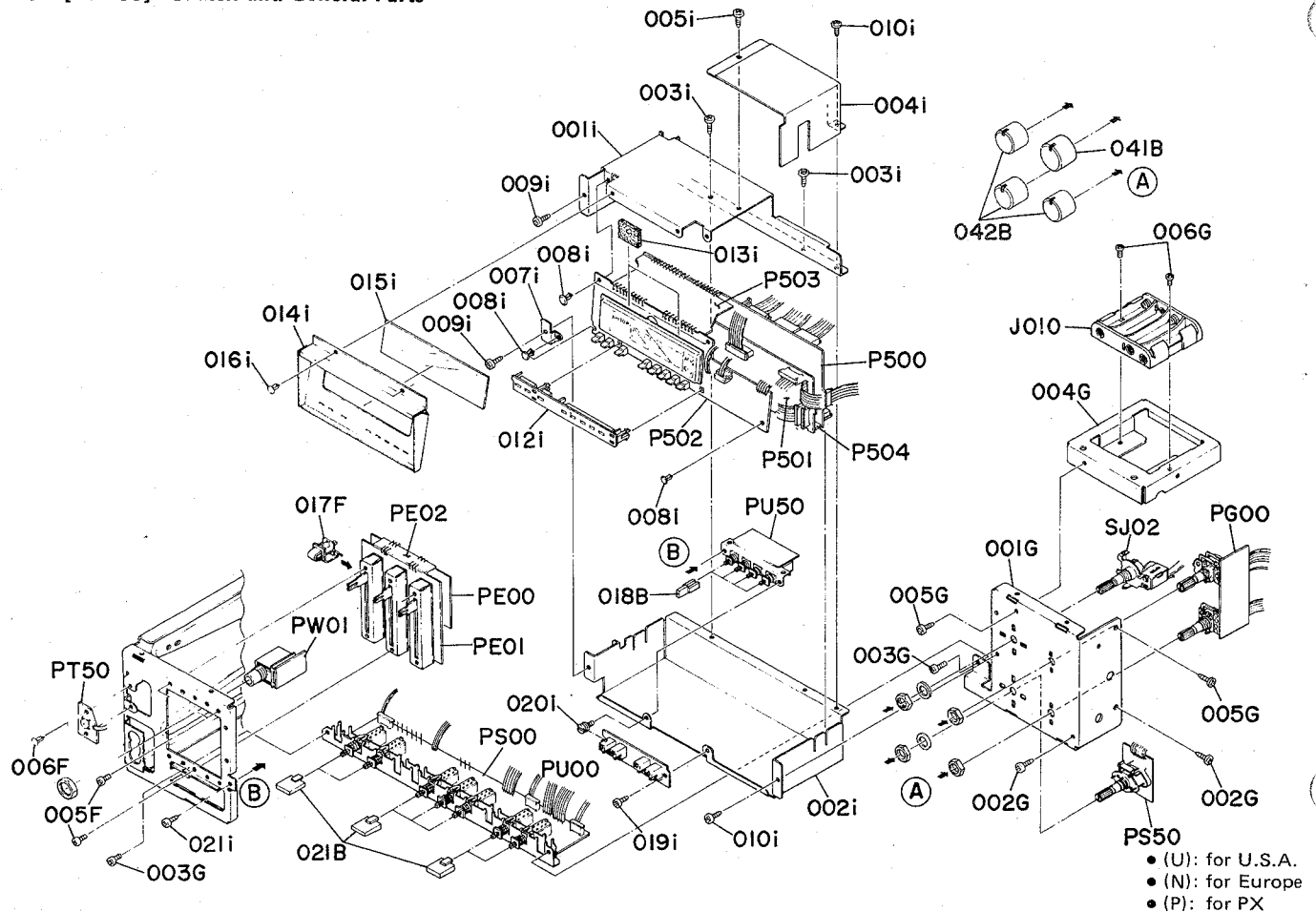


- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
001E	1			103H160210	Bracket, Rear Panel
001E		1		103H160220	Bracket, Rear Panel
001E			1	103H160230	Bracket, Rear Panel
002E	6	6	6	51280308U0	B.H. Tapped Screw B3 x 8
003E	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
004E	1	1	1	103H160060	Bracket
005E	1	1	1	103H160070	Bracket
006E	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
008E	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
011E	2	2	2	51102604S0	B.H.M. Screw B2.6 x 4
012E	1	1	1	2137114010	Stopper
020E	1	1	1	103H160040	Bracket, Relay P.W. Board
021E	1	1	1	51280308U0	B.H. Tapped Screw B3 x 8
022E	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
024E	1	1	1	1455259010	Bushing, Antenna Cord
031E	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
040E		2	2	51280308U0	B.H. Tapped Screw B3 x 8
041E	1		1	1455259030	Bushing, AC Cord
042E	2		2	51280310U0	B.H. Tapped Screw B3 x 10
045E		1		4581861010	Label
046E	1	1	1	2112265010	Indicator
047E		2		51420308T0	O.C.H. Tapped Screw O3 x 8
003R	1			9511101070	Label, UL

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
△ F001	1			FS10400500	Fuse 4A 250V
△ F001		1		FS10200800	Fuse 2A 250V
△ F001			1	FS10400600	Fuse 4A 250V
△ J001	1			YJ08000310	Jack, Fuse Holder
△ J001		1		YJ08000290	Jack, Fuse Holder
△ J001			1	YJ08000300	Jack, Fuse Holder
△ J021	1	1	1	YJ04000750	Jack, AC Outlet
△ J021		1		YJ04000850	Jack, AC Outlet
J031	1	1	1	YL03010250	Terminal, Ground
△ J091		1	1	BY05080040	Voltage Selector
△ J092		1		YP04000590	Plug, AC Inlet
L051	1	1	1	LA00015010	Antenna Coil, Loop
R001	1			RC10225120	Resistor 2.2MΩ ±10% ½W
△ W001	1			YC01900070	A.C. Power Cord
△ W001			1	YC01800190	A.C. Power Cord

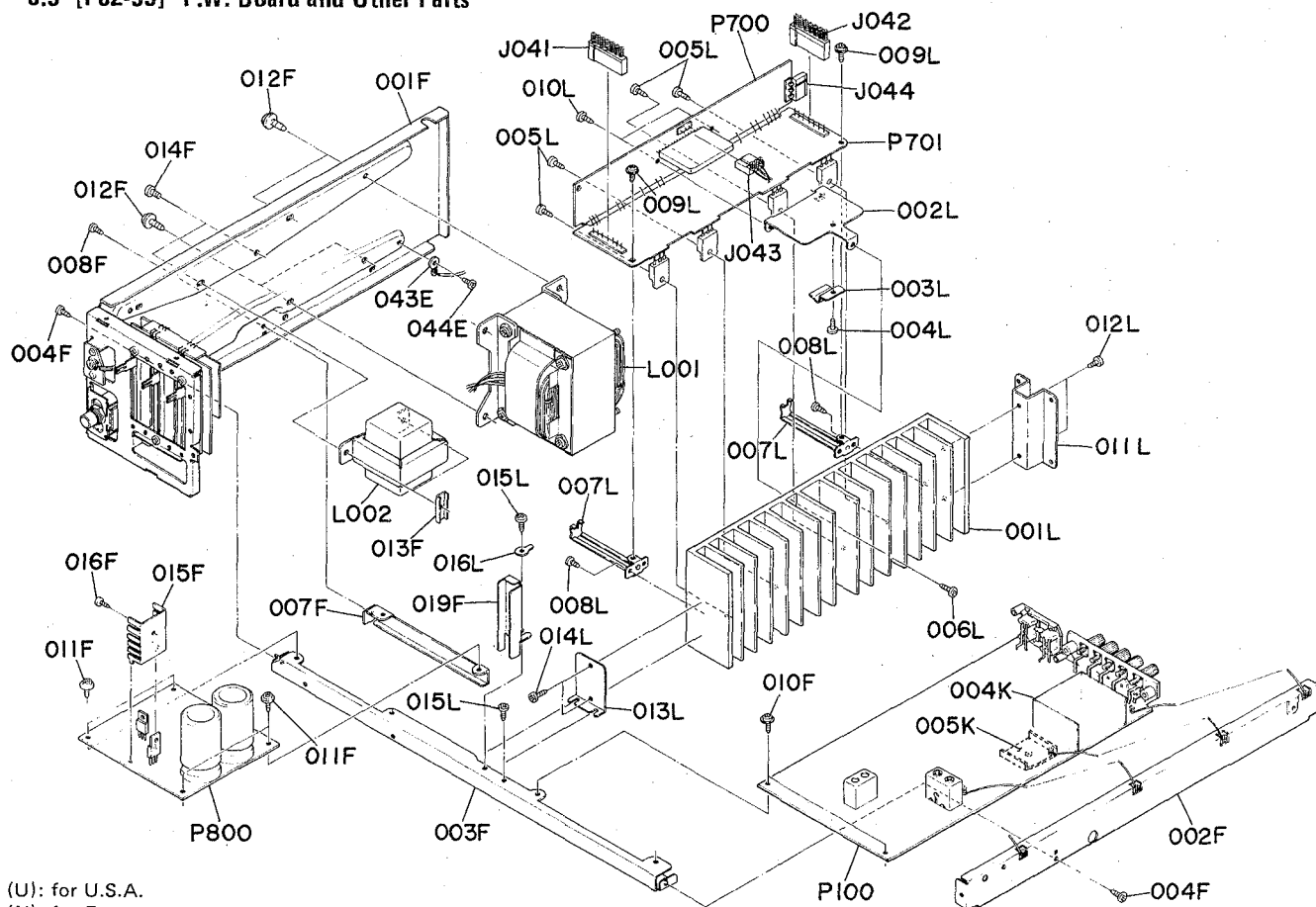
8.4 [P01-99] Chassis and General Parts



REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
018B	4	4	4	103H154040	Knob
021B	7	7	7	208H154060	Knob, Push Switch
041B	1	1	1	103H154110	Knob, Volume
042B	3	3	3	208H154120	Knob
005F	3	3	3	51100306A9	B.H.M. Screw B3 x 6
006F	2	2	2	2276005050	Clamper
017F	1	1	1	2139271020	Holder
001G	1	1	1	103H160010	Bracket, Front Shassis
002G	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
003G	2	2	2	51100306A9	B.H.M. Screw B3 x 6
004G	1	1	1	103H160020	Bracket, Battery Case
005G	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
006G	2	2	2	51302606U0	P.H. Tapped Screw P2.6 x 6

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
001i	1	1	1	103H109010	Shield, Top
002i	1	1	1	103H109020	Shield, Bottom
003i	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
004i	1	1	1	103H109040	Shield
005i	1	1	1	51280306B0	B.H. Tapped Screw B3 x 6
007i	1	1	1	103H160090	Bracket
008i	4	4	4	2276005050	Clamper
009i	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
010i	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012i	1	1	1	103H259040	Bushing, LED
013i	2	2	2	2137118010	Spacer
014i	1	1	1	103H302020	Dial
015i	1	1	1	2137158020	Window
016i	2	2	2	2912259020	Bushing
019i	1	1	1	51280306B0	B.H. Tapped Screw B3 x 6
020i	1	1	1	103H101010	Support
021i	1	1	1	51100306A9	B.H.M. Screw B3 x 6
JO10	1	1	1	YJ14000060	Battery Case
SJ02	1	1	1	SR00040090	Rotary Switch, Tape Monitor

8.5 [P02-99] P.W. Board and Other Parts

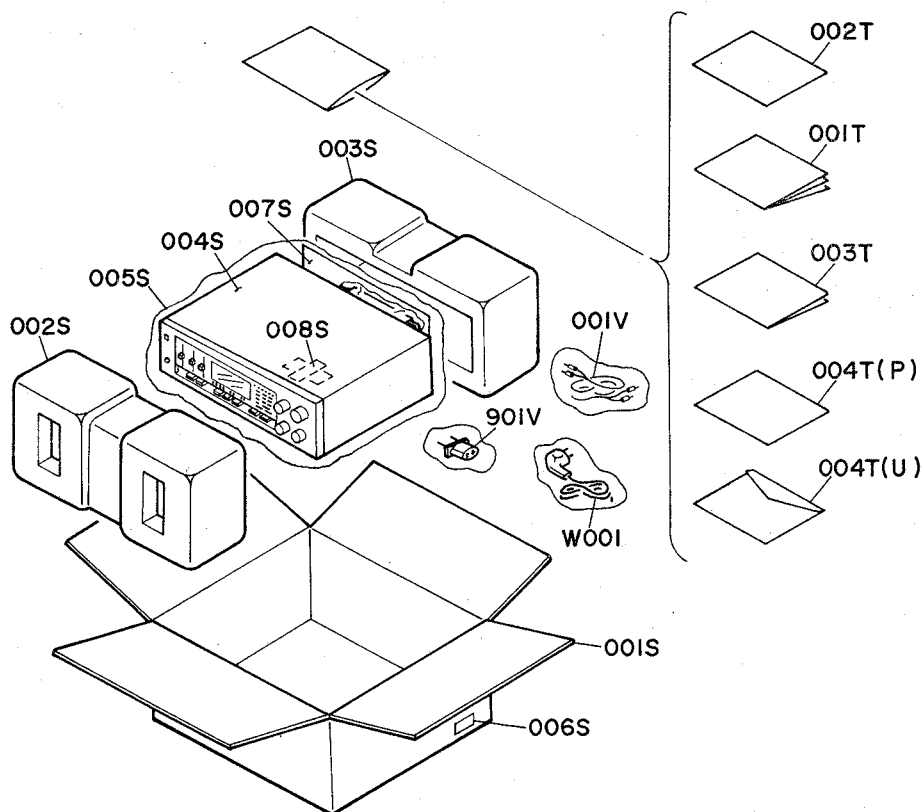


- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
043E	1			62030049W0	Lug
044E	1			51280308B0	B.H. Tapped Screw B3 x 8
001F	1	1	1	103H105010	Chassis, (L)
002F	1	1	1	103H126010	Stay, (R)
003F	1	1	1	103H126020	Stay, Center
004F	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
007F	1	1	1	103H160080	Bracket, Power Supply
008F	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
010F	2	2	2	51260308B0	B.T. Screw B3 x 8
011F	4	4	4	51260308B0	B.T. Screw B3 x 8
012F	4	4	4	51260410B0	B.T. Screw B3 x 8
013F	2	2	2	2922005010	Clamper
014F	2	2	2	51100408A9	B.H.M. Screw B4 x 8
015F	1	1	1	202H267030	Heatsink
016F	1	1	1	51280306B0	B.H. Tapped Screw B3 x 6
019F	1	1	1	103H160130	Bracket
001L	1	1	1	103H267010	Heatsink, Main
002L	1	1	1	103H267020	Heatsink
003L	1	1	1	2116115010	Spring
004L	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
005L	4	4	4	51280312B0	B.H. Tapped Screw B3 x 12
006L	1	1	1	51280310B0	B.H. Tapped Screw B3 x 10

REF. DESIG.	QTY			PART NO.	DESCRIPTION
	U	N	P		
007L	2	2	2	2116160040	Bracket
008L	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009L	2	2	2	51260308B0	B.T. Screw B3 x 8
010L	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
011L	1	1	1	103H160100	Bracket
012L	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
013L	1	1	1	2276160040	Bracket
014L	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
015L	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
016L	1	1	1	62030049W0	Lug
004K	1	1	1	2137109010	Shield
005K	1	1	1	2850109020	Shield
J041	1	1	1	YJ06001060	Jack, (7P)
J042	1	1	1	YJ06001060	Jack, (7P)
J043	1	1	1	YJ06001040	Jack, (3P)
J044	1	1	1	YJ06001040	Jack, (3P)
△ L001	1			TS18601050	Power Transformer
△ L001		1		TS19601170	Power Transformer
△ L001			1	TS19601190	Power Transformer
△ L002	1			TS15405050	Power Transformer, Back up
△ L002		1		TS15405060	Power Transformer, Back up
△ L002			1	TS15405090	Power Transformer, Back up

8.6 [H01-99] Packing Materials



- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
001S	1			103H801010	Packing Case
001S		1		103H801020	Packing Case
001S			1	103H801050	Packing Case
002S	1	1	1	211H809010	Cushion, Front
003S	1	1	1	211H809020	Cushion, Rear
004S	1	1	1	2918107260	Sheet
005S	1	1	1	9090909030	Polyethylene Sheet
006S	2			9526019010	Serial No. Card
006S		4		9526019060	Serial No. Card
006S			3	9526019050	Serial No. Card
007S	1		1	2918107370	Sheet
008S		1		2731821010	Silicagel

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
001T	1			103H851010	Instructions
001T		1	1	103H851310	Instructions
002T	1			103H851020	Instructions, Spec
002T		1	1	103H851320	Instructions, Spec
003T	1			2818854020	Guarantee Card
003T		1		103H856010	Circuit Diagram
003T			1	2818854010	Guarantee Card
004T	1			2225813010	Envelope
004T			1	9650000010	S. Station Card
001V	1	1	1	ZA02000070	EXT. Antenna
901V			1	YJ04000240	Jack, AC Adaptor
W001			1	ZC01805030	A.C. Power Cord

8.7 ELECTRICAL PARTS LIST

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
P100	1	1	1	YK103H1710	P.W. Board, Tuner/Phono Amp.
	1			ZZ103H1710	P.W. Board Assembly
		1		ZZ103H8710	P.W. Board Assembly
			1	ZZ103H9710	P.W. Board Assembly
P100-CAPACITORS					
CA02	1	1	1	CT12000090	Trimming 20pF
CA03	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CA04	1	1	1	DD10020370	Ceramic 2pF ±0.25pF
CA05	1	1	1	DD15391370	Ceramic 390pF ±5%
CA06	1	1	1	DK18403320	Ceramic 0.04μF +80%—20%
CA07	1	1	1	DK18403320	Ceramic 0.04μF +80%—20%
CA08	1	1	1	DK18102300	Ceramic 1000pF
CA09	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CA10	1	1	1	DK18403320	Ceramic 0.04μF +80%—20%
CA11	1	1	1	DK18223310	Ceramic 0.022μF +80%—20%
CA12	1	1	1	DD15470370	Ceramic 47pF ±5%
CA13	1	1	1	DK18223310	Ceramic 0.022μF +80%—20%
CA14	1	1	1	DK18223310	Ceramic 0.022μF +80%—20%
CA15	1	1	1	DK18102300	Ceramic 1000pF
CA16	1	1	1	CT12000090	Trimming 20pF
CA17	1	1	1	DD10050370	Ceramic 5pF ±0.5pF
CA18	1	1	1	DF55431090	Film 430pF ±5%
CA19	1	1	1	DK18223310	Ceramic 0.022μF +80%—20%
CA20	1	1	1	EA10602530	Elect 10μF 50V
CA21	1	1	1	EA10602530	Elect 10μF 50V
CA22	1	1	1	DK18403320	Ceramic 0.04μF +80%—20%
CA23	1	1	1	EA47405030	Elect 0.47μF 50V
CA24	1	1	1	EA10701630	Elect 100μF 16V
CA25	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CA26	1	1	1	DF16273300	Film 0.027μF ±10%
CA27	1	1	1	DF17682300	Film 6800pF ±20%
CA28	1	1	1	DF17403300	Film 0.04μF ±20%
CA29	1	1	1	EA10602530	Elect 10μF 25V
CA30	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CV01	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CV02	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C101	1	1	1	CT10600090	Trimming 6pF
C103	1	1	1	DD15470370	Ceramic 47pF ±5%
C104	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C105	1	1	1	CT10600090	Trimming 6pF
C106	1	1	1	DD10030300	Ceramic 3pF ±0.25pF
C107	1	1	1	CT10600090	Trimming 6pF
C108	1	1	1	DD10040300	Ceramic 4pF ±0.25pF
C109	1	1	1	DD10030370	Ceramic 3pF ±0.25pF
C110	1	1	1	DD11100370	Ceramic 10pF ±0.5pF
C111	1	1	1	DK16331300	Ceramic 330pF ±10%
C112	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C113	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C114	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C115	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C116	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C118	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C119	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C120	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C121	1	1	1	EA47405030	Elect 0.47μF 50V

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
C122	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C123	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C124	1	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C125	1	1	1	DK18403320	Ceramic 0.04μF +80%—20%
C126	1	1	1	DK16182300	Ceramic 1800pF ±10%
C127	1	1	1	DD15330360	Ceramic 33pF ±5%
C128	1	1	1	EA47505030	Elect 4.7μF 50V
C129	1	1	1	EA47405030	Elect 0.47μF 50V
C130	1	1	1	DD11100370	Ceramic 10pF ±0.5pF
C131	1	1	1	DF16683300	Film 0.068μF ±10%
C132	1	1	1	DF17403300	Film 0.04μF ±20%
C133	1	1	1	DF16104300	Film 0.01μF ±10%
C134	1	1	1	EA10701030	Elect 100μF 10V
C135	1	1	1	EA10602530	Elect 10μF 25V
C136	1	1	1	EA22601630	Elect 22μF 16V
C137	1	1	1	EA10701630	Elect 100μF 16V
C138	1	1	1	DK16331300	Ceramic 330pF ±10%
C139	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C141	1	1	1	DD10020300	Ceramic 2pF ±0.25pF
C142	1	1	1	CT10600090	Trimming 6pF
C143	1	1	1	DD10030300	Ceramic 3pF ±0.25pF
C144	1	1	1	DD10010370	Ceramic 1pF ±0.25pF
C145	1	1	1	DD11100300	Ceramic 10pF ±0.5pF
C146	1	1	1	DD15300300	Ceramic 30pF ±5%
C147	1	1	1	DD15150300	Ceramic 15pF ±5%
C148	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C149	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C150	1	1	1	EA10505030	Elect 1μF 50V
C151	1	1	1	EA10701630	Elect 100μF 16V
C152	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C155	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C153	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C301	1	1	1	DF15473300	Film 0.047μF ±5%
C302	1	1	1	DF55511090	Film 510pF ±5%
C303	1	1	1	EQ10505030	Elect 1μF 50V
C304	1	1	1	EA47505030	Elect 4.7μF 50V
C305	1	1	1	DF55821090	Film 820pF ±5%
C306	1	1	1	EQ10505030	Elect 1μF 50V
C307	1	1	1	EA10505030	Elect 1μF 50V
C308	1	1	1	EA22701630	Elect 220μF 16V
C309	1	1	1	EA47505030	Elect 4.7μF 50V
C310	1	1	1	EA10505030	Elect 1μF 50V
C311	1	1	1	EA10505030	Elect 1μF 50V
C312	1	1	1	DF15332300	Film 3300pF ±5%
C312	1	1	1	DF15222300	Film 2200pF ±5%
C313	1	1	1	DF15332300	Film 3300pF ±5%
C313	1	1	1	DF15222300	Film 2200pF ±5%
C314	1	1	1	EA10405030	Elect 0.1μF 50V
C315	1	1	1	EA10405030	Elect 0.1μF 50V
C316	1	1	1	DD15101370	Ceramic 100pF ±5%
C317	1	1	1	DD15101370	Ceramic 100pF ±5%
C318	1	1	1	EA47505030	Elect 4.7μF 50V
C319	1	1	1	EA47505030	Elect 4.7μF 50V
C320	1	1	1	EA10701630	Elect 100μF 16V
C401	1	1	1	EA33505030	Elect 3.3μF 50V
C402	1	1	1	EA33505030	Elect 3.3μF 50V
C403	1	1	1	DK16331300	Ceramic 330pF ±10%
C404	1	1	1	DK16331300	Ceramic 330pF ±10%
C405	1	1	1	EA47601630	Elect 47μF 16V
C406	1	1	1	EA47601630	Elect 47μF 16V
C407	1	1	1	DF15332300	Film 3300pF ±5%

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
C408	1	1	1	DF15332300	Film 3300pF ±5%
C409	1	1	1	DF15123300	Film 0.012μF ±5%
C410	1	1	1	DF15123300	Film 0.012μF ±5%
C411	1	1	1	EA47505030	Elect 4.7μF 50V
C412	1	1	1	EA47505030	Elect 4.7μF 50V
C413	1	1	1	DK16101300	Ceramic 100pF ±10%
C414	1	1	1	DK16101300	Ceramic 100pF ±10%
C415	1	1	1	EA10701630	Elect 100μF 16V
C416	1	1	1	EA10701630	Elect 100μF 16V
P100-RESISTORS (All Resistors are ±5% and ¼W)					
RA01	1	1	1	GD05105140	1MΩ
RA02	1	1	1	GD05102140	1KΩ
RA03	1	1	1	GD05153140	15KΩ
RA04	1	1	1	GD05152140	1.5KΩ
RA05	1	1	1	GD05101140	100Ω
RA06	1	1	1	GD05222140	2.2KΩ
RA07	1	1	1	GD05471140	470Ω
RA08	1	1	1	GD05104140	100KΩ
RA09	1	1	1	GD05222140	2.2KΩ
RA10	1	1	1	GD05103140	10KΩ
RA11	1	1	1	RA01030260	10KΩ(B), Trimming
RA12	1	1	1	GD05820140	820Ω
RA13	1	1	1	GD05103140	10KΩ
RA14	1	1	1	GD05101140	100Ω
RA15	1	1	1	GD05102140	1KΩ
RA16	1	1	1	GD05153140	15KΩ
RA18	1	1	1	GG05101140	100Ω
RA19	1	1	1	GD05333140	33KΩ
RA20	1	1	1	GD05221140	220Ω
RA21	1	1	1	GD05225140	2.2MΩ
RA22	1	1	1	GD05152140	1.5KΩ
RC01	1	1	1	GD05103140	10KΩ
RC02	1	1	1	GD05223140	22KΩ
RC03	1	1	1	GD05104140	100KΩ
RC04	1	1	1	GD05104140	100KΩ
RC05	1	1	1	GD05103140	10KΩ
RC06	1	1	1	GD05223140	22KΩ
RC07	1	1	1	GD05104140	100KΩ
RC08	1	1	1	GD05104140	100KΩ
RC09	1	1	1	GD05103140	10KΩ
RC10	1	1	1	GD05223140	22KΩ
RC11	1	1	1	GD05104140	100KΩ
RC12	1	1	1	GD05103140	10KΩ
RC13	1	1	1	GD05103140	10KΩ
RC14	1	1	1	GD05223140	22KΩ
RC15	1	1	1	GD05104140	100KΩ
RC16	1	1	1	GD05103140	10KΩ
RC17	1	1	1	GG05102120	1KΩ ¼W
RC18	1	1	1	GG05102120	1KΩ ¼W
R101	1	1	1	GD05104140	100KΩ
R102	1	1	1	GD05104140	100KΩ
R103	1	1	1	GD05104140	100KΩ
R104	1	1	1	GD05104140	100KΩ
R105	1	1	1	GD05104140	100KΩ
R106	1	1	1	GD05104140	100KΩ
R107	1	1	1	GD05472140	4.7KΩ
R108	1	1	1	GD05223140	22KΩ
R109	1	1	1	GD05332140	3.3KΩ
R110	1	1	1	GD05273140	27KΩ

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
R111	1	1	1	GD05331140	330Ω
R112	1	1	1	GD05153140	15KΩ
R113	1	1	1	GD05272140	2.7KΩ
R114	1	1	1	GD05102140	1KΩ
R115	1	1	1	GD05331140	330Ω
R116	1	1	1	GD05223140	22KΩ
R117	1	1	1	GD05101140	100Ω
R118	1	1	1	GD05101140	100Ω
R119	1	1	1	GG05470140	47Ω
R120	1	1	1	GD05183140	18KΩ
R121	1	1	1	GD05332140	3.3KΩ
R122	1	1	1	RA01030260	10KΩ(B), Trimming
R123	1	1	1	GD05124140	120KΩ
R124	1	1	1	GD05183140	18KΩ
R125	1	1	1	GD05332140	3.3KΩ
R126	1	1	1	GD05331140	330Ω
R127	1	1	1	GD05104140	100KΩ
R128	1	1	1	GD05184140	180KΩ
R130	1	1	1	GD05821140	820Ω
R131	1	1	1	GD05273140	27KΩ
R132	1	1	1	GD05104140	100KΩ
R133	1	1	1	GD05122140	1.2KΩ
R134	1	1	1	GD05272140	2.7KΩ
R135	1	1	1	GD05272140	2.7KΩ
R136	1	1	1	RA01040110	100KΩ(B), Trimming
R137	1	1	1	GD05562140	5.6KΩ
R138	1	1	1	GD05104140	100KΩ
R139	1	1	1	GD05273140	27KΩ
R140	1	1	1	GD05102140	1KΩ
R141	1	1	1	GD05563140	56KΩ
R142	1	1	1	GD05101140	100Ω
R143	1	1	1	GD05124140	120KΩ
R144	1	1	1	GG05101140	100Ω
R145	1	1	1	GD05102140	1KΩ
R146	1	1	1	GD05331140	330Ω
R147	1	1	1	GD05104140	100KΩ
R148	1	1	1	GD05821140	820Ω
R149	1	1	1	GD05104140	100KΩ
R150	1	1	1	GD05103140	10KΩ
R151	1	1	1	GD05103140	10KΩ
R152	1	1	1	GD05222140	2.2KΩ
R153	1	1	1	GD05101140	100Ω
R154	1	1	1	GD05222140	2.2KΩ
R155	1	1	1	GD05223140	22KΩ
R156	1	1	1	GD05103140	10KΩ
R157	1	1	1	GD05104140	100KΩ
R158	1	1	1	GD05153140	15KΩ
R159	1	1	1	GD05183140	18KΩ
R161	1	1	1	GD05103140	10KΩ
R162	1	1	1	GD05104140	100KΩ
R163	1	1	1	GD05153140	15KΩ
R164	1	1	1	GD05153140	15KΩ
R165	1	1	1	GD05153140	15KΩ
R167	1	1	1	GD05103140	10KΩ
R168	1	1	1	GD05334140	330KΩ
R169	1	1	1	GD05333140	33KΩ
R170	1	1	1	GD05222140	2.2KΩ
R171	1	1	1	GD05103140	10KΩ
R172	1	1	1	GD05103140	10KΩ
R173	1	1	1	GD05394140	390KΩ

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
R301	1	1	1	GD05473140	47K Ω
R302	1	1	1	GD05224140	220K Ω
R303	1	1	1	GD05153140	15K Ω
R304	1	1	1	RA05020160	5K Ω (B), Trimming
R305	1	1	1	GD05821140	820 Ω
R306	1	1	1	GD05102140	1K Ω
R307	1	1	1	RA02020160	2K Ω (B), Trimming
R308	1	1	1	GD05472140	4.7K Ω
R309	1	1	1	GD05472140	4.7K Ω
R310	1	1	1	GD05103140	10K Ω
R311	1	1	1	GD05473140	47K Ω
R312	1	1	1	GG05101140	100 Ω
R313	1	1	1	GD05154140	150K Ω
R314	1	1	1	GD05472140	4.7K Ω
R315	1	1	1	GD05472140	4.7K Ω
R316	1	1	1	GD05273140	27K Ω
R317	1	1	1	GD05273140	27K Ω
R318	1	1	1	GD05154140	150K Ω
R319	1	1	1	GD05154140	150K Ω
R320	1	1	1	GD05471140	470 Ω
R321	1	1	1	GD05471140	470 Ω
R322	1	1	1	RA01030260	10K Ω (B), Trimming
R323	1	1	1	GD05102140	1K Ω
R324	1	1	1	GD05822140	8.2K Ω
R325	1	1	1	GD05822140	8.2K Ω
R326	1	1	1	GD05155140	1.5M Ω
R327	1	1	1	GD05155140	1.5M Ω
R328	1	1	1	GD05392140	3.9K Ω
R329	1	1	1	GD05392140	3.9K Ω
R330	1	1	1	GD05392140	3.9K Ω
R331	1	1	1	GD05392140	3.9K Ω
R332	1	1	1	GD05104140	100K Ω
R333	1	1	1	GD05104140	100K Ω
R334	1	1	1	GG05470140	47 Ω
R335	1	1	1	GD05154140	150K Ω
R336	1	1	1	GD05333140	33K Ω
R338	1	1	1	GD05184140	180K Ω
R339	1	1	1	GD05184140	180K Ω
R401	1	1	1	GD05104140	100K Ω
R402	1	1	1	GD05104140	100K Ω
R403	1	1	1	GD05222140	2.2K Ω
R404	1	1	1	GD05222140	2.2K Ω
R405	1	1	1	GD05104140	100K Ω
R406	1	1	1	GD05104140	100K Ω
R407	1	1	1	GD05471140	470 Ω
R408	1	1	1	GD05471140	470 Ω
R409	1	1	1	GD05223140	22K Ω
R410	1	1	1	GD05223140	22K Ω
R411	1	1	1	GD05274140	270K Ω
R412	1	1	1	GD05274140	270K Ω
R413	1	1	1	GD05224140	220K Ω
R414	1	1	1	GD05224140	220K Ω
R415	1	1	1	GD05221140	220 Ω
R416	1	1	1	GD05221140	220 Ω
R417	1	1	1	GG05101140	100 Ω
R418	1	1	1	GG05101140	100 Ω

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
QA01	1	1	1	HC10058030	IC LA1245
QA02	1	1	1	HF200551D0	F.E.T. 2SK55(D)
QA03	1	1	1	HD40002420	Varicap KV-1226
QA05	1	1	1	HV00006120	Varistor MV-203
QC01	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC02	1	1	1	HT107332A0	Transistor 2SA733(Q or R)
QC03	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC04	1	1	1	HT107332A0	Transistor 2SA733(Q or R)
QC05	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC06	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC07	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC08	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC09	1	1	1	HD20015030	Diode DS135D
QC10	1	1	1	HD20015030	Diode DS135D
Q101	1	1	1	HF400451B0	F.E.T. 3SK45(B)
Q102	1	1	1	HF200551D0	F.E.T. 2SK55(D)
Q103	1	1	1	HT308291D0	Transistor 2SC829(D)
Q104	1	1	1	HT308291C0	Transistor 2SC829(C)
Q105	1	1	1	HT310471C0	Transistor 2SC1047(C)
Q106	1	1	1	HT308291C0	Transistor 2SC829(C)
Q107	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q108	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q109	1	1	1	HD40004010	Varicap 1SV55
Q110	1	1	1	HD40004010	Varicap 1SV55
Q111	1	1	1	HD40004010	Varicap 1SV55
Q112	1	1	1	HD40004010	Varicap 1SV55
Q113	1	1	1	HC10028030	IC LA1231N
Q114	1	1	1	HT309452C0	Transistor 2SC945(K or P)
Q115	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q116	1	1	1	HD20011050	Diode 1S1555
Q117	1	1	1	HD20011050	Diode 1S1555
Q118	1	1	1	HD20011050	Diode 1S1555
Q119	1	1	1	HD20011050	Diode 1S1555
Q120	1	1	1	HD20011050	Diode 1S1555
Q121	1	1	1	HD20011050	Diode 1S1555
Q122	1	1	1	HD20011050	Diode 1S1555
Q123	1	1	1	HD20011050	Diode 1S1555
Q124	1	1	1	HD20011050	Diode 1S1555
Q125	1	1	1	HD20011050	Diode 1S1555
Q126	1	1	1	HD20011050	Diode 1S1555
Q127	1	1	1	HV00006120	Varistor MV-203
Q128	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q129	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q130	1	1	1	HD30029090	Zener WZ090
Q131	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q132	1	1	1	HD20011050	Diode 1S1555
Q133	1	1	1	HD20011050	Diode 1S1555
Q301	1	1	1	HC10001420	IC KB4437
Q302	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q303	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q304	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q305	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q306	1	1	1	HT111272B0	Transistor 2SA1127(S or T)
Q307	1	1	1	HT111272B0	Transistor 2SA1127(S or T)
Q401	1	1	1	HC10008090	IC JRC4558

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
P100-MISCELLANEOUS					
FA01	1	1	1	FG450302B0	Ceramic Filter SFZ450B-3
FA02	1	1	1	FF10045270	Ceramic Filter BFU450C
F101	1	1	1	FF11070530	Ceramic Filter 10.7MHz MD-1
F102	1	1	1	FF11070530	Ceramic Filter 10.7MHz MD-1
F102		1		FF11070570	Ceramic Filter 10.7MHz MS3G
F103	1		1	FF11070530	Ceramic Filter 10.7MHz MD-1
F103		1		FF11070570	Ceramic Filter 10.7MHz MS3G
JV01	1			YT02040350	Terminal, Phono/Aux Input
JV01		1	1	YT02040340	Terminal, Phono/Aux Input
J101	1	1	1	YJ01050010	Terminal, Antenna
J102	1	1	1	YJ06002430	Jack, (3P)
J103	1	1	1	YJ06002460	Jack, (7P)
J104	1	1	1	YJ06002270	Jack, (8P)
LA01	1	1	1	LA10015010	Antenna Coil, AM
LA02	1	1	1	LO10013170	OSC Coil, AM
LA03	1	1	1	LI10010730	I.F.T. Coil, AM IF
LA05	1	1	1	LC11540040	Choke Coil, 150μH
LC01	1	1	1	LY20240020	Relay, 2V 23mA
LC02	1	1	1	LY20240020	Relay, 2V 23mA
L101	1	1	1	LA12026190	Antenna Coil, FM
L102	1	1	1	LA12026200	Antenna Coil, FM RF
L103	1	1	1	LA12026210	Antenna Coil, FM RF
L104	1	1	1	LO12046030	OSC Coil, FM
L105	1	1	1	LC17510010	Choke Coil, 0.75μH
L106	1	1	1	LI10016010	I.F.T. Coil, FM IF
L107	1	1	1	LC13320050	Choke Coil, 3.3μH
L108	1	1	1	LI14030020	I.F.T. Coil, FM DET
L109		1		LS35040010	M.P.X. Coil
L110		1		LS10290190	M.P.X. Coil
L111	1	1	1	LC11050060	Choke Coil, 1mH
L301	1	1	1	LS20010020	M.P.X. Coil, L.P.F. (38KHz)
P500-CONTROLLER					
CIRCUIT BOARD					
P500	1	1	1	YK103H2710	P.W. Board, Controller
	1	1	1	ZZ103H2710	P.W. Board Assembly
P500-CAPACITORS					
C501	1	1	1	EA10701630	Elect 100μF 16V
C502	1	1	1	EA47405030	Elect 0.47μF 50V
C503	1	1	1	EA10505030	Elect 1μF 50V
P500-RESISTORS					
(All Resistors are ±5% and ¼W)					
G501	1	1	1	BW10104020	100KΩ x 8 1/8W Compo.
G502	1	1	1	BW10104010	100KΩ x 6 1/8W Compo.
G503	1	1	1	BW10104010	100KΩ x 6 1/8W Compo.
G504	1	1	1	BW10473010	47KΩ x 5 1/8W Compo.
G505	1	1	1	BW10473010	47KΩ x 5 1/8W Compo.

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
R501	1	1	1	GD05104140	100KΩ
R502	1	1	1	GD05104140	100KΩ
R503	1	1	1	GD05104140	100KΩ
R504	1	1	1	GD05104140	100KΩ
R505	1	1	1	GD05104140	100KΩ
R506	1	1	1	GD05104140	100KΩ
R507	1	1	1	GD05104140	100KΩ
R508	1	1	1	GD05104140	100KΩ
R509	1	1	1	GD05104140	100KΩ
R510	1	1	1	GD05104140	100KΩ
R511	1	1	1	GD05104140	100KΩ
R512	1	1	1	GD05104140	100KΩ
R513	1	1	1	GD05104140	100KΩ
R514	1	1	1	GD05104140	100KΩ
R515	1	1	1	GD05103140	10KΩ
R516	1	1	1	GD05103140	10KΩ
R517	1	1	1	GD05103140	10KΩ
R518	1	1	1	GD05103140	10KΩ
R519	1	1	1	GD05103140	10KΩ
R520	1	1	1	GD05103140	10KΩ
R521	1	1	1	GD05103140	10KΩ
R522	1	1	1	GD05103140	10KΩ
R523	1	1	1	GD05103140	10KΩ
R524	1	1	1	GD05103140	10KΩ
R525	1	1	1	GD05473140	47KΩ
R526	1	1	1	GD05103140	10KΩ
R527	1	1	1	GD05473140	47KΩ
R528	1	1	1	GD05103140	10KΩ
R529	1	1	1	GD05473140	47KΩ
R530	1	1	1	GD05473140	47KΩ
R531	1	1	1	GD05103140	10KΩ
R532	1	1	1	GD05103140	10KΩ
R533	1	1	1	GD05104140	100KΩ
P500-SEMICONDUCTORS					
Q501	1	1	1	HC10027020	IC MN1455LF
Q502	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q503	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q504	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q505	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q506	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q507	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q508	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q509	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q510	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q511	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q512	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q513	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q514	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q515	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q516	1	1	1	HT107332A0	Transistor 2SA733(O or R)
Q517	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q518	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q519	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q520	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q521	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q522	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q523	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q524	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q525	1	1	1	HT309452A0	Transistor 2SC945(O or R)

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
Q526	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q527	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q528	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q529	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q530	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q531	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q532	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q533	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q534	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q535	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q536	1	1	1	HD20011050	Diode 1S1555
Q537	1	1	1	HD20011050	Diode 1S1555
Q538	1	1	1	HD20011050	Diode 1S1555
Q539	1	1	1	HD20011050	Diode 1S1555
Q540	1	1	1	HD20011050	Diode 1S1555
Q541	1	1	1	HD20011050	Diode 1S1555
Q542	1	1	1	HD20011050	Diode 1S1555
Q543	1	1	1	HD20011050	Diode 1S1555
Q544	1	1	1	HD20011050	Diode 1S1555
Q545	1	1	1	HD20011050	Diode 1S1555
Q546	1	1	1	HD20011050	Diode 1S1555
Q547	1	1	1	HD20011050	Diode 1S1555
Q548	1	1	1	HD20011050	Diode 1S1555
Q549	1	1	1	HD20011050	Diode 1S1555
Q550	1	1	1	HD20011050	Diode 1S1555
Q551	1	1	1	HD20011050	Diode 1S1555
Q552	1	1	1	HD20011050	Diode 1S1555
Q553	1	1	1	HD20011050	Diode 1S1555
Q554	1	1	1	HD20011050	Diode 1S1555
Q556	1	1	1	HD20011050	Diode 1S1555
Q557	1	1	1	HD20011050	Diode 1S1555
Q559	1	1	1	HD20011050	Diode 1S1555
Q560	1	1	1	HD20011050	Diode 1S1555
Q561	1	1	1	HD20011050	Diode 1S1555
Q562	1	1	1	HD20011050	Diode 1S1555
Q563	1	1	1	HD20011050	Diode 1S1555
Q564	1	1	1	HD20011050	Diode 1S1555
Q565	1	1	1	HD20011050	Diode 1S1555
Q566	1	1	1	HD20011050	Diode 1S1555
Q567	1	1	1	HD20011050	Diode 1S1555
Q568	1	1	1	HD20011050	Diode 1S1555
Q569	1	1	1	HD20011050	Diode 1S1555
J501	1	1	1	YJ06002270	Jack, (8P)
J502	1	1	1	YJ06002460	Jack, (7P)
J504	1	1	1	YJ06002450	Jack, (6P)
J505	1	1	1	YJ06002460	Jack, (7P)
J506	1	1	1	YJ06002430	Jack, (3P)
J507	1	1	1	YJ06002430	Jack, (3P)
W501	1	1	1	YU05200260	Jumper Lead, (5P)
W502	1	1	1	YU04180260	Jumper Lead, (4P)
W503	1	1	1	YU02220260	Jumper Lead, (2P)

P500-MISCELLANEOUS

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
P501	1	1	1	YK103H2720 ZZ103H2720	P501-PLL/L.P.F. CIRCUIT BOARD P.W. Board, PLL/L.P.F. P.W. Board Assembly
C511	1	1	1	EA47405030	P501-CAPACITORS Elect 0.47 μ F 50V
C512	1	1	1	DK18333310	Ceramic 0.033 μ F +80%—20%
C513	1	1	1	DF15223300	Film 0.22 μ F $\pm$ 5%
C514	1	1	1	DD15270300	Ceramic 27pF $\pm$ 5%
C515	1	1	1	CT12000090	Trimming 20pF
C516	1	1	1	DK18333310	Ceramic 0.033 μ F +80%—20%
C517	1	1	1	EA47405030	Elect 0.47 μ F 50V
C518	1	1	1	DF15103300	Film 0.01 μ F $\pm$ 5%
C519	1	1	1	EQ47505010	Elect 4.7 μ F 50V
C520	1	1	1	EA10703530	Elect 100 μ F 35V
C521	1	1	1	DF15473300	Film 0.047 μ F $\pm$ 5%
G506	1	1	1	BW10473010	P501-RESISTORS (All Resistors are $\pm$ 5% and $\frac{1}{4}$ W) 47K Ω x 2 1/8W Compo.
R541	1	1	1	GD05103140	10K Ω
R542	1	1	1	GD05103140	10K Ω
R544	1	1	1	GD05103140	10K Ω
R545	1	1	1	GD05103140	10K Ω
R547	1	1	1	GD05104140	100K Ω
R548	1	1	1	GD05104140	100K Ω
R549	1	1	1	GD05335140	3.3M Ω
R550	1	1	1	GG05221140	220 Ω
R551	1	1	1	GD05332140	3.3K Ω
R552	1	1	1	GD05561140	560 Ω
R553	1	1	1	GD05102140	1K Ω
R554	1	1	1	GD05561140	560 Ω
R555	1	1	1	GD05682140	6.8K Ω
Q571	1	1	1	HC10028020	P501-SEMICONDUCTORS IC MN6147
Q572	1	1	1	HC10040010	IC 74LS42
Q573	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q574	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q575	1	1	1	HF200301C0	F.E.T. 2SK30(Y)
Q577	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q578	1	1	1	HT309452A0	Transistor 2SC945(O or R)
Q579	1	1	1	HD20011050	Diode 1S1555
J509	1	1	1	YJ06002450	Jack, (6P)
J510	1	1	1	YJ06002390	Jack, (5P)
J511	1	1	1	YJ06002270	Jack, (8P)
W504	1	1	1	YU08260260	Jumper Lead, (8P)
X501	1	1	1	XB108001L2	Crystal 4.5MHz

P501-MISCELLANEOUS

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
P502	1	1	1	YK103H2750	P502-VFL/SIGNAL LED CIRCUIT BOARD
	1	1	1	ZZ103H2750	P.W. Board, VFL/Signal LED P.W. Board Assembly
C531	1	1	1	EA10505030	P502-CAPACITORS
C532	1	1	1	EA10602530	Elect 1 μ F 50V
C533	1	1	1	EA10602530	Elect 10 μ F 25V
C534	1	1	1	EA10701630	Elect 10 μ F 25V
C535	1	1	1	DK17103300	Elect 100 μ F 16V
					Ceramic 0.01 μ F $\pm$ 20%
R561	1	1	1	GD05390140	P502-RESISTORS
R562	1	1	1	GD05390140	(All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)
R563	1	1	1	GD05391140	39 Ω
R564	1	1	1	GD05391140	39 Ω
R565	1	1	1	GD05391140	390 Ω
R566	1	1	1	GD05153140	390 Ω
R567	1	1	1	GD05333140	15K Ω
R568	1	1	1	GD05562140	33K Ω
R569	1	1	1	GD05103140	5.6K Ω
R570	1	1	1	GD05682140	10K Ω
R571	1	1	1	GG05680140	6.8K Ω
					68 Ω
Q581	1	1	1	HC10040030	P502-SEMICONDUCTORS
Q582	1	1	1	HI10006320	IC LB1416
Q583	1	1	1	HI10007320	L.E.D. GL-9NG9
Q584	1	1	1	HI10007320	L.E.D. GL-9PR9
Q585	1	1	1	HI10007320	L.E.D. GL-9PR9
Q586	1	1	1	HI10007320	L.E.D. GL-9PR9
Q587	1	1	1	HI10007320	L.E.D. GL-9PR9
Q588	1	1	1	HI10006320	L.E.D. GL-9NG9
Q589	1	1	1	HI10006320	L.E.D. GL-9NG9
J512	1	1	1	YJ06002430	P502-MISCELLANEOUS
V501	1	1	1	HQ30701410	Jack, (3P)
W505	1	1	1	YU05300260	Display Unit 8-MT-01
W506	1	1	1	YU02200260	Jumper Lead, (5P)
W507	1	1	1	YU02280260	Jumper Lead, (2P)
					Jumper Lead, (2P)
P503	1	1	1	YK103H2740	P503-CONTROLLER/FIP
	1	1	1	ZZ103H2740	JUMPER CIRCUIT BOARD
R581	1	1	1	GD05104140	P.W. Board, Controller/ Fip Jumper
Q591	1	1	1	HD20011050	P.W. Board Assembly
Q593	1	1	1	HD20011050	Resistor 100K Ω $\pm$ 5% $\frac{1}{4}$ W
Q594	1	1	1	HD20011050	Diode 1S1555
					Diode 1S1555
P504	1	1	1	YK103H2730	P504-CONTROLLER/PLL
	1	1	1	ZZ103H2730	JUMPER CIRCUIT BOARD
					P.W. Board, Controller/ PLL Jumper
					P.W. Board Assembly

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
P700	1	1	1	YK103H3410	P700-MAIN AMP.
	1	1	1	ZZ103H3410	CIRCUIT BOARD
CN13	1	1	1	EA47601030	P.W. Board, Main Amp.
CN14	1	1	1	EA33601030	P.W. Board Assembly
CN16	1	1	1	EA47605030	P700-CAPACITORS
CN17	1	1	1	EA47601030	Elect 47 μ F 10V
C701	1	1	1	DK16221300	Elect 33 μ F 10V
C702	1	1	1	DK16221300	Elect 47 μ F 50V
C703	1	1	1	EA10505030	Elect 47 μ F 10V
C704	1	1	1	EA10505030	Elect 47 μ F 10V
C705	1	1	1	EA47505030	Elect 220pF $\pm$ 10%
C706	1	1	1	EA47505030	Elect 220pF $\pm$ 10%
C707	1	1	1	DK16561300	Elect 1 μ F 50V
C708	1	1	1	DK16561300	Elect 1 μ F 50V
C709	1	1	1	DD15200360	Elect 4.7 μ F 50V
C710	1	1	1	DD15200360	Elect 4.7 μ F 50V
C711	1	1	1	DD15270370	Ceramic 560pF $\pm$ 10%
C712	1	1	1	DD15270370	Ceramic 560pF $\pm$ 10%
C715	1	1	1	DD11070370	Ceramic 20pF $\pm$ 5%
C716	1	1	1	DD11070370	Ceramic 20pF $\pm$ 5%
C717	1	1	1	EA47605030	Ceramic 27pF $\pm$ 5%
C718	1	1	1	EA47605030	Ceramic 27pF $\pm$ 5%
RN21	1	1	1	GD05224140	Ceramic 7pF $\pm$ 0.5pF
RN22	1	1	1	GD05223140	Ceramic 7pF $\pm$ 0.5pF
RN23	1	1	1	GD05223140	Elect 47 μ F 50V
RN24	1	1	1	GD05273140	Elect 47 μ F 50V
RN25	1	1	1	GD05332140	Ceramic 27pF $\pm$ 5%
RN26	1	1	1	GG05101140	Ceramic 27pF $\pm$ 5%
RN29	1	1	1	GD05103140	Ceramic 7pF $\pm$ 0.5pF
RN30	1	1	1	GD05563140	Ceramic 7pF $\pm$ 0.5pF
R701	1	1	1	GD05474140	P700-RESISTORS
R702	1	1	1	GD05474140	(All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)
R703	1	1	1	GD05221140	220K Ω
R704	1	1	1	GD05221140	22K Ω
R705	1	1	1	GD05273140	22K Ω
R706	1	1	1	GD05273140	27K Ω
R707	1	1	1	RA02230020	27K Ω
R708	1	1	1	RA02230020	27K Ω
R709	1	1	1	GD05272140	27K Ω (B), Trimming
R710	1	1	1	GD05272140	27K Ω (B), Trimming
R711	1	1	1	GD05683140	2.7K Ω
R712	1	1	1	GD05683140	68K Ω
R713	1	1	1	GD05471140	68K Ω
R714	1	1	1	GD05471140	470 Ω
R715	1	1	1	GD05152140	470 Ω
R716	1	1	1	GD05152140	1.5K Ω
R717	1	1	1	RA04710040	1.5K Ω
R718	1	1	1	RA04710040	470 Ω (B), Trimming
R719	1	1	1	GD05272140	470 Ω (B), Trimming
R720	1	1	1	GD05272140	2.7K Ω
R721	1	1	1	GG05101140	2.7K Ω
R722	1	1	1	GG05101140	100 Ω
R739	1	1	1	GD05100140	100 Ω
R740	1	1	1	GD05100140	10 Ω
R741	1	1	1	GD05333140	10 Ω
R742	1	1	1	GD05333140	33K Ω

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
QN19	1	1	1	HC10046060	P700-SEMICONDUCTORS
QN20	1	1	1	HT107332A0	IC μ PC1237H
Q715	1	1	1	HC10030030	Transistor 2SA733(Q or R)
J703	1	1	1	YP06001040	IC STK3062
J704	1	1	1	YP06000570	P700-MISCELLANEOUS
					Plug, (3P)
					Plug, (3P)
P701	1	1	1	YK103H3420	P701-MAIN AMP. CIRCUIT BOARD
	1	1	1	ZZ103H3420	P.W. Board, Main Amp.
					P.W. Board Assembly
CN01	1	1	1	DF15103350	P701-CAPACITORS
CN02	1	1	1	DF15103350	Film 0.01 μ F $\pm$ 5%
CN03	1	1	1	DF15103350	Film 0.01 μ F $\pm$ 5%
CN04	1	1	1	DF15103350	Film 0.01 μ F $\pm$ 5%
C713	1	1	1	DF17473520	Film 0.047 μ F $\pm$ 20%
C714	1	1	1	DF17473520	Film 0.047 μ F $\pm$ 20%
C719	1	1	1	EA10705030	Elect 100 μ F 50V
C720	1	1	1	EA10705030	Elect 100 μ F 50V
C721	1	1	1	EA10705030	Elect 100 μ F 50V
C722	1	1	1	EA10705030	Elect 100 μ F 50V
C723	1	1	1	DK16331300	Ceramic 330pF $\pm$ 10%
C724	1	1	1	DK16331300	Ceramic 330pF $\pm$ 10%
RN01	1	1	1	GG05822140	P701-RESISTORS
RN02	1	1	1	GG05322140	(All Resistors are $\pm$ 5% and $\frac{1}{4}$ W)
RN03	1	1	1	GD05153140	8.2K Ω
RN04	1	1	1	GD05153140	8.2K Ω
RN05	1	1	1	GG05822140	15K Ω
RN06	1	1	1	GG05822140	15K Ω
RN15	1	1	1	GG05561140	8.2K Ω
RN16	1	1	1	GG05561140	8.2K Ω
RN17	1	1	1	GG05271140	560 Ω
RN18	1	1	1	GG05271140	560 Ω
RN19	1	1	1	GD05333140	270 Ω
RN20	1	1	1	GD05333140	270 Ω
RN31	1	1	1	GD05103140	33K Ω
RN32	1	1	1	GD05103140	33K Ω
R723	1	1	1	GG05010140	10K Ω
R724	1	1	1	GG05010140	10K Ω
R725	1	1	1	GG05100140	1 Ω
R726	1	1	1	GG05100140	1 Ω
R727	1	1	1	GO10332050	10 Ω
R728	1	1	1	GO10332050	10 Ω
R729	1	1	1	GO10332050	0.33 Ω $\pm$ 10% 5W
R730	1	1	1	GO10332050	0.33 Ω $\pm$ 10% 5W
R731	1	1	1	GA05331010	0.33 Ω $\pm$ 10% 5W
R732	1	1	1	GA05331010	0.33 Ω $\pm$ 10% 5W
R733	1	1	1	GA05100030	330 Ω 1W
R734	1	1	1	GA05100030	330 Ω 1W
R735	1	1	1	RC10022120	10 Ω 3W
R736	1	1	1	RC10022120	10 Ω 3W
R737	1	1	1	GA05331010	2.2 Ω $\pm$ 10% $\frac{1}{2}$ W
R738	1	1	1	GA05331010	2.2 Ω $\pm$ 10% $\frac{1}{2}$ W
RN33	1	1	1	GD05102140	330 Ω 1W
RN34	1	1	1	GD05102140	330 Ω 1W
RN35	1	1	1	GD05102140	1K Ω
RN36	1	1	1	GD05102140	1K Ω

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
QN01	1	1	1	HT309452A0	P701-SEMICONDUCTORS
QN02	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QN03	1	1	1	HT107332A0	Transistor 2SC945(Q or R)
QN04	1	1	1	HT107332A0	Transistor 2SA733(Q or R)
QN05	1	1	1	HD20011050	Transistor 2SA733(Q or R)
QN06	1	1	1	HD20011050	Diode 1S1555
QN07	1	1	1	HD20011050	Diode 1S1555
QN08	1	1	1	HD20011050	Diode 1S1555
QN09	1	1	1	HD20003210	Diode 1S1555
QN10	1	1	1	HD20003210	Diode 1S2471
QN11	1	1	1	HD20003210	Diode 1S2471
QN12	1	1	1	HD20003210	Diode 1S2471
QN17	1	1	1	HT309452A0	Diode 1S2471
QN18	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q701	1	1	1	HT328242A0	Transistor 2SC945(Q or R)
Q702	1	1	1	HT328242A0	Transistor 2SC2824(O or Y)
Q703	1	1	1	HT111842A0	Transistor 2SC2824(O or Y)
Q704	1	1	1	HT111842A0	Transistor 2SA1184(O or Y)
Q705	1	1	1	HT328372C0	Transistor 2SA1184(O or Y)
Q706	1	1	1	HT328372C0	Transistor 2SC2837(R or O)
Q707	1	1	1	HT111862C0	Transistor 2SC2837(R or O)
Q708	1	1	1	HT111862C0	Transistor 2SA1186(R or O)
Q709	1	1	1	HD20015030	Transistor 2SA1186(R or O)
Q710	1	1	1	HD20015030	Diode DS135D
Q711	1	1	1	HD20015030	Diode DS135D
Q712	1	1	1	HD20015030	Diode DS135D
Q713	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q714	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
J701	1	1	1	YP06001060	P701-MISCELLANEOUS
J702	1	1	1	YP06001060	Plug, (7P)
L701	1	1	1	LL23905120	Plug, (7P)
L702	1	1	1	LL23905120	Choke Coil
P800	1	1	1	YK103H4710	Choke Coil
	1	1	1	ZZ103H4710	P800-POWER SUPPLY CIRCUIT BOARD
				ZZ103H7710	P.W. Board, Power Supply
					P.W. Board Assembly
					P.W. Board Assembly
△C801	1	1	1	DK18103560	P800-CAPACITORS
△C803	1	1	1	EB10905020	Ceramic 0.01 μ F
△C804	1	1	1	EB10905020	Elect 10000 μ F 50V
C805	1	1	1	EA47505030	Elect 10000 μ F 50V
C806	1	1	1	EA10605030	Elect 4.7 μ F 50V
C807	1	1	1	EA10605030	Elect 10 μ F 50V
C808	1	1	1	EA22605030	Elect 10 μ F 50V
C809	1	1	1	EA22605030	Elect 22 μ F 50V
C810	1	1	1	EA10701630	Elect 22 μ F 50V
C811	1	1	1	EA10701630	Elect 100 μ F 16V
C812	1	1	1	EA10505030	Elect 100 μ F 16V
C813	1	1	1	EA10505030	Elect 1 μ F 50V
C814	1	1	1	EA47603530	Elect 1 μ F 50V
C815	1	1	1	EA22705030	Elect 47 μ F 35V
C816	1	1	1	EA22705030	Elect 220 μ F 50V
					Elect 220 μ F 50V

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
C817	1	1	1	EA10505030	Elect 1 μ F 50V
C818	1	1	1	EA10701030	Elect 100 μ F 10V
C819	1	1	1	EA10701030	Elect 100 μ F 10V
C820	1	1	1	EA22601630	Elect 22 μ F 16V
C821	1	1	1	EA10505030	Elect 1 μ F 50V
C822	1	1	1	EA33705030	Elect 330 μ F 50V
C823	1	1	1	EA10701030	Elect 100 μ F 10V
C824	1	1	1	EA47603530	Elect 47 μ F 35V
C825	1	1	1	EA10505030	Elect 1 μ F 50V
△ C826	1	1	1	DK18103560	Ceramic 0.01 μ F
△ C827	1	1	1	DK18103560	Ceramic 0.01 μ F
△ C828	1	1	1	DK18103560	Ceramic 0.01 μ F
△ C829	1	1	1	DK18103560	Ceramic 0.01 μ F
P800-RESISTORS (All Resistors are $\pm 5\%$ and $\frac{1}{4}W$)					
R801	1	1	1	GD05273140	27K Ω
R802	1	1	1	GP05131050	130 Ω 5W
R803	1	1	1	GA05821010	820 Ω 1W
R804	1	1	1	GG05102140	1K Ω
R805	1	1	1	GG05102140	1K Ω
R806	1	1	1	GD05681140	680 Ω
R807	1	1	1	GD05681140	680 Ω
R808	1	1	1	GD05473140	47K Ω
R809	1	1	1	GA05271010	270 Ω
R810	1	1	1	GD05103140	10K Ω
R811	1	1	1	GD05103140	10K Ω
R812	1	1	1	GD05563140	56K Ω
R813	1	1	1	GG05152140	1.5K Ω
R814	1	1	1	GD05104140	100K Ω
R815	1	1	1	GD05220140	22 Ω
R815	1	1	1	GD05100140	10 Ω
R816	1	1	1	GD05473140	47K Ω
R817	1	1	1	GD05183140	18K Ω
R818	1	1	1	GD05103140	10K Ω
R819	1	1	1	GG05391120	390 Ω $\frac{1}{4}W$
R820	1	1	1	GA05331010	330 Ω 1W
R821	1	1	1	GD05822140	8.2K Ω
P800-SEMICONDUCTORS					
△ Q801	1	1	1	HD20011290	Diode S3V20
△ Q802	1	1	1	HD20011290	Diode S3V20
△ Q803	1	1	1	HD20011290	Diode S3V20
△ Q804	1	1	1	HD20011290	Diode S3V20
Q805	1	1	1	HD20011050	Diode 1S1555
Q806	1	1	1	HT403131Q0	Transistor 2SD313(E)
Q807	1	1	1	HT206052B0	Transistor 2SB605(L or K)
△ Q808	1	1	1	HD20018030	Diode DBA-10
Q809	1	1	1	HD20011050	Diode 1S1555
Q810	1	1	1	HD30065090	Zener BZ-280
Q811	1	1	1	HD30053090	Zener XZ-068
Q812	1	1	1	HT403131Q0	Transistor 2SD313(E)
Q813	1	1	1	HD30009060	Zener RD-6.2EB
Q814	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q815	1	1	1	HD20015030	Diode DS135D
Q816	1	1	1	HD20011050	Diode 1S1555
Q817	1	1	1	HD30065090	Zener BZ-280
Q818	1	1	1	HT107332A0	Transistor 2SA733(Q or R)
Q819	1	1	1	HD20011050	Diode 1S1555
Q820	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q821	1	1	1	HD30027090	Zener WZ-140
Q822	1	1	1	HD30027090	Zener WZ-140
Q823	1	1	1	HD20011050	Diode 1S1555

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
PC50	1	1	1	YK103H1760	PC50-SCAN STEP SWITCH CIRCUIT BOARD P.W. Board, Scan Step Switch P.W. Board Assembly
	1	1	1	ZZ103H1760	
SC51	1	1	1	SS02030130	Slide Switch, Scan Step
WC56	1	1	1	YU03500260	Jumper Lead, (3P)
PE00	1	1	1	YK103H4720	PE00-TONE AMP. CIRCUIT BOARD P.W. Board, Tone Amp. P.W. Board Assembly
	1	1	1	ZZ103H4720	
PE00-CAPACITORS					
CE01	1	1	1	EA33505030	Elect 3.3 μ F 50V
CE02	1	1	1	EA33505030	Elect 3.3 μ F 50V
CE03	1	1	1	DK16101300	Ceramic 100pF $\pm 10\%$
CE04	1	1	1	DK16101300	Ceramic 100pF $\pm 10\%$
CE05	1	1	1	DD15560370	Ceramic 56pF $\pm 5\%$
CE06	1	1	1	DD15560370	Ceramic 56pF $\pm 5\%$
CE07	1	1	1	EA33505030	Elect 3.3 μ F 50V
CE08	1	1	1	EA33505030	Elect 3.3 μ F 50V
CE21	1	1	1	EA10701630	Elect 100 μ F 16V
CE22	1	1	1	EA10701630	Elect 100 μ F 16V
CE23	1	1	1	EA47601630	Elect 47 μ F 16V
CE24	1	1	1	EA47601630	Elect 47 μ F 16V
PE00-RESISTORS (All Resistor are $\pm 5\%$ and $\frac{1}{4}W$)					
RE01	1	1	1	GD05102140	1K Ω
RE02	1	1	1	GD05102140	1K Ω
RE03	1	1	1	GD05821140	820 Ω
RE04	1	1	1	GD05821140	820 Ω
RE05	1	1	1	GD05392140	3.9K Ω
RE06	1	1	1	GD05392140	3.9K Ω
RE07	1	1	1	GD05470140	47 Ω
RE08	1	1	1	GD05470140	47 Ω
RE09	1	1	1	GD05104140	100K Ω
RE10	1	1	1	GD05104140	100K Ω
RE21	1	1	1	GD05223140	22K Ω
RE30	1	1	1	GG05101140	100 Ω
RE31	1	1	1	GG05101140	100 Ω
RE33	1	1	1	GD05104140	100K Ω
RE34	1	1	1	GD05104140	100K Ω
PE00-SEMICONDUCTORS					
QE01	1	1	1	HC10008090	IC JRC4558
QE02	1	1	1	HC10008090	IC JRC4558
WE01	1	1	1	YU05380260	PE00-MISCELLANEOUS Jumper Lead, (5P)
PE01	1	1	1	YK103H4740	PE01-TONE VOLUME CIRCUIT BOARD P.W. Board, Tone Volume P.W. Board Assembly
	1	1	1	ZZ103H4740	
PE01-CAPACITORS					
CE09	1	1	1	DK16101300	Ceramic 100pF $\pm 10\%$
CE10	1	1	1	DK16101300	Ceramic 100pF $\pm 10\%$
CE11	1	1	1	DF15222300	Film 2200pF $\pm 5\%$
CE12	1	1	1	DF15222300	Film 2200pF $\pm 5\%$
CE13	1	1	1	DF15562300	Film 5600pF $\pm 5\%$

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
CE14	1	1	1	DF15562300	Film 5600pF ±5%
CE15	1	1	1	DF15183300	Film 0.018μF ±5%
CE16	1	1	1	DF15183300	Film 0.018μF ±5%
CE17	1	1	1	DF15183300	Film 0.018μF ±5%
CE18	1	1	1	DF15183300	Film 0.018μF ±5%
CE19	1	1	1	DF15822300	Film 8200pF ±5%
CE20	1	1	1	DF15822300	Film 8200pF ±5%
PE01-RESISTORS (All Resistors are ±5% and ½W)					
RE11	1	1	1	GD05682140	6.8KΩ
RE12	1	1	1	GD05682140	6.8KΩ
RE13	1	1	1	GD05682140	6.8KΩ
RE14	1	1	1	GD05682140	6.8KΩ
RE15	1	1	1	GD05562140	5.6KΩ
RE16	1	1	1	GD05562140	5.6KΩ
RE17	1	1	1	GD05562140	5.6KΩ
RE18	1	1	1	GD05562140	5.6KΩ
RE19	1	1	1	GD05223140	22KΩ
RE20	1	1	1	GD05223140	22KΩ
RE21	1	1	1	GD05223140	22KΩ
RE22	1	1	1	GD05223140	22KΩ
RE23	1	1	1	GD05223140	22KΩ
RE24	1	1	1	GD05223140	22KΩ
RE25	1	1	1	GD05103140	10KΩ
RE26	1	1	1	GD05103140	10KΩ
RE27	1	1	1	RS01040180	100KΩ(B), Variable
RE28	1	1	1	RS01040180	100KΩ(B), Variable
RE29	1	1	1	RS01040180	100KΩ(B), Variable
PE02-CONNECTION CIRCUIT BOARD P.W. Board, Connection					
PE02	1	1	1	YK103H4730	
PG00-VOL/BALANCE CIRCUIT BOARD P.W. Board, Vol/Balance P.W. Board Assembly					
PG00	1	1	1	YK103H4750	
	1	1	1	ZZ103H4750	
RG01	1	1	1	RM01040270	Variable Resistor 100KΩ(B)
RG02	1	1	1	RK02040120	Variable Resistor 200KΩ(W)
PJ01-TAPE MONITOR SWITCH CIRCUIT BOARD P.W. Board, Tape Monitor Switch P.W. Board Assembly P.W. Board Assembly					
PJ01	1	1	1	YH103H0210	
	1			ZZ103H0210	
		1	1	ZZ103H8210	
CJ01	1	1	1	DK17103300	Ceramic Cap. 0.01μF ±20%
JJ01	1			YT02040350	Terminal, Tape 1
JJ01		1	1	YT02040340	Terminal, Tape 1
JJ02	1			YT02040350	Terminal, Tape 2
JJ02		1	1	YT02040340	Terminal, Tape 2
SJ01	1	1	1	SS04040040	Slide Switch
SJ02	1	1	1	SR00040090	Rotary Switch
WJ01	1	1	1	YU07180260	Jumper Lead

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
PL00	1	1	1	YK103H4760	PL00-SPEAKER PROTECTOR CIRCUIT BOARD
	1	1	1	ZZ103H4760	P.W. Board, Speaker Protector
					P.W. Board Assembly
RL01	1	1	1	GG05122120	Resistor 1.2KΩ ±5% ½W
RL02	1	1	1	GG05122120	Resistor 1.2KΩ ±5% ½W
QL01	1	1	1	HD20015030	Diode DS135D
QL02	1	1	1	HD20015030	Diode DS135D
JL01	1	1	1	YT03080010	Terminal, Speaker
LL01	1	1	1	LY20240190	Relay, System 1
LL02	1	1	1	LY20240190	Relay, System 2
PQ00	1	1	1	YK103H4770	PQ00-AC POWER RELAY CIRCUIT BOARD
	1			ZZ103H4770	P.W. Board, AC Power Relay
		1		ZZ103H8770	P.W. Board Assembly
			1	ZZ103H9770	P.W. Board Assembly
CQ01	1			DK18103530	PQ00-CAPACITORS
CQ01		1		DK18103840	Ceramic 0.01μF 125V
CQ01			1	DK18103850	Ceramic 0.01μF 400V
CQ02		1		DK18103840	Ceramic 0.01μF 250V
CQ02			1	DK18103850	Ceramic 0.01μF 400V
					Ceramic 0.01μF 250V
QQ01	1	1	1	HD20015030	PQ00-SEMICONDUCTOR
					Diode DS135D
LQ01	1	1	1	LY10240050	PQ00-MISCELLANEOUS
LQ02		1	1	LY10240050	Relay
					Relay
PS00	1	1	1	YK103H3430	PS00-FILTER/LOUDNESS CIRCUIT BOARD
	1	1	1	ZZ103H3430	P.W. Board, Filter/Loudness
					P.W. Board Assembly
CS01	1	1	1	DF15473300	PS00-CAPACITORS
CS02	1	1	1	DF15473300	Film 0.047μF ±5%
CS03	1	1	1	DK16681300	Film 0.047μF ±5%
CS04	1	1	1	DK16681300	Ceramic 680pF ±10%
CS05	1	1	1	DF15562300	Ceramic 680pF ±10%
CS06	1	1	1	DF15562300	Film 5600pF ±5%
CS09	1	1	1	DK18103560	Film 5600pF ±5%
					Ceramic 0.01μF
RS01	1	1	1	GD05822140	PS00-RESISTORS
RS02	1	1	1	GD05822140	(All Resistors are ±5% and ¼W)
RS03	1	1	1	GD05183140	8.2KΩ
RS04	1	1	1	GD05183140	8.2KΩ
RS05	1	1	1	GD05222140	18KΩ
RS06	1	1	1	GD05222140	18KΩ
RS07	1	1	1	GD05222140	2.2KΩ
RS08	1	1	1	GD05222140	2.2KΩ
RS09	1	1	1	GD05564140	2.2KΩ
RS10	1	1	1	GD05564140	2.2KΩ
					560KΩ
					560KΩ
RS13	1	1	1	GD05332140	3.3KΩ
RS14	1	1	1	GD05332140	3.3KΩ
RS15	1	1	1	GD05123140	12KΩ

- (U): for U.S.A.
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REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
JS01	1	1	1	YJ06002430	PS00-MISCELLANEOUS Jack, (3P)
JS02	1	1	1	YJ06002430	Jack, (3P)
SS01	1	1	1	SP02070020	Push Switch, Speaker/Filter
WS01	1	1	1	YU05280260	Jumper Lead, (5P)
WS02	1	1	1	YU03160260	Jumper Lead, (3P)
PS01	1	1	1	YK103H3440	PS01-SPEAKER SWITCH CIRCUIT BOARD P.W. Board, Speaker Switch
	1	1	1	ZZ103H3440	P.W. Board Assembly
RS16	1	1	1	GD05104140	PS01-RESISTORS 100K Ω $\pm 5\%$ $\frac{1}{4}W$
RS17	1	1	1	GG05392120	3.9K Ω $\pm 5\%$ $\frac{1}{4}W$
RS18	1	1	1	GD05104140	100K Ω $\pm 5\%$ $\frac{1}{4}W$
RS19	1	1	1	GG05102120	1K Ω $\pm 5\%$ $\frac{1}{4}W$
RS20	1	1	1	GD05104140	100K Ω
QS01	1	1	1	HT309452A0	PS01-SEMICONDUCTORS Transistor 2SC945(Q or R)
QS02	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
JS03	1	1	1	YJ06002430	PS01-JACK Jack, (3P)
PS50	1	1	1	YK103H1740	PS50-TIMER SWITCH CIRCUIT BOARD P.W. Board, Timer Switch
	1	1	1	ZZ103H1740	P.W. Board Assembly
QS51	1	1	1	HD20011050	PS50-SEMICONDUCTORS Diode 1S1555
QS52	1	1	1	HD20011050	Diode 1S1555
QS53	1	1	1	HD20011050	Diode 1S1555
QS54	1	1	1	HD20011050	Diode 1S1555
QS55	1	1	1	HD20011050	Diode 1S1555
QS56	1	1	1	HD20011050	Diode 1S1555
SS51	1	1	1	SR01060010	PS50-MISCELLANEOUS Rotary Switch, Timer
WS55	1	1	1	YU07240260	Jumper Lead, (7P)
PT00	1	1	1	YK103H2760	PT00-KEY BOARD SWITCH CIRCUIT BOARD P.W. Board, Key Board Switch
	1	1	1	ZZ103H2760	P.W. Board Assembly
RT01	1	1	1	GD05681140	Resistors 680 Ω $\pm 5\%$ $\frac{1}{4}W$
QT01	1	1	1	HI10003320	PT00-SEMICONDUCTORS L.E.D. GL-2PR1
QT02	1	1	1	HI10003320	L.E.D. GL-2PR1
QT03	1	1	1	HI10003320	L.E.D. GL-2PR1
QT04	1	1	1	HI10003320	L.E.D. GL-2PR1
QT05	1	1	1	HI10003320	L.E.D. GL-2PR1
QT06	1	1	1	HI10003320	L.E.D. GL-2PR1
QT07	1	1	1	HI10003320	L.E.D. GL-2PR1
QT08	1	1	1	HI10003320	L.E.D. GL-2PR1
QT08	1	1	1	HI10003320	L.E.D. GL-2PR1

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
ST01	1	1	1	SP01010470	PT00-SWITCHES Push Switch, Memory 1
ST02	1	1	1	SP01010470	Push Switch, Memory 2
ST03	1	1	1	SP01010470	Push Switch, Memory 3
ST04	1	1	1	SP01010470	Push Switch, Memory 4
ST05	1	1	1	SP01010470	Push Switch, Memory 5
ST06	1	1	1	SP01010470	Push Switch, Memory 6
ST07	1	1	1	SP01010470	Push Switch, Memory 7
ST08	1	1	1	SP01010470	Push Switch, Memory 8
ST09	1	1	1	SP01010470	Push Switch, Time 9
ST10	1	1	1	SP01010470	Push Switch, Time 0
ST11	1	1	1	SP01010470	Push Switch, Memory
ST12	1	1	1	SP01010470	Push Switch, Up
ST13	1	1	1	SP01010470	Push Switch, Down
WT01	1	1	1	YU08180260	Jumper Lead, (8P)
WT02	1	1	1	YU07200260	Jumper Lead, (7P)
WT11	1	1	1	YB01300040	Connective Cord, (8P)
PT50	1	1	1	YK103H2770	PT50-POWER OFF SWITCH CIRCUIT BOARD P.W. Board, Power OFF Switch
	1	1	1	ZZ103H2770	P.W. Board Assembly
ST51	1	1	1	SP01010470	Push Switch, Power OFF
WT57	1	1	1	YU02400260	Jumper Lead, (2P)
PU00	1	1	1	YK103H1730	PU00-FUNCTION SWITCH CIRCUIT BOARD P.W. Board, Function Switch
	1	1	1	ZZ103H1730	P.W. Board Assembly
RU01	1	1	1	GD05331140	Resistor 330 Ω $\pm 5\%$ $\frac{1}{4}W$
QU01	1	1	1	HI10012320	PU00-SEMICONDUCTORS L.E.D. Aux
QU02	1	1	1	HI10012320	L.E.D. Phono
QU04	1	1	1	HI10012320	L.E.D. AM
QU05	1	1	1	HI10012320	L.E.D. FM
SU01	1	1	1	SP01010480	PU00-MISCELLANEOUS Push Switch, Aux
SU02	1	1	1	SP01010480	Push Switch, Phone
SU04	1	1	1	SP01010480	Push Switch, AM
SU05	1	1	1	SP01010480	Push Switch, FM
WU09	1	1	1	YU06160260	Jumper Lead, (6P)
WU10	1	1	1	YU05160260	Jumper Lead, (5P)

- (U): for U.S.A.
- (N): for Europe
- (P): for PX

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
PU50	1	1	1	YK103H1720	PU50-C/F DISPLAY CIRCUIT BOARD P.W. Board, C/F Display P.W. Board Assembly
	1	1	1	ZZ103H1720	
RU51	1	1	1	GD05272140	Resistor 2.7K Ω $\pm$ 5% $\frac{1}{4}$ W
QU51	1	1	1	HD20011050	Diode 1S1555
SU51	1	1	1	SP02040100	Push Switch
WU54	1	1	1	YU06200260	Jumper Lead, (6P)
WU62	1	1	1	YU02180260	Jumper Lead, (2P)
CU51	1	1	1	DK17103300	Ceramic Cap. 0.01 μ F $\pm$ 20%

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	N	P		
PW01	1	1	1	YK103H1770	PW01-HEAD PHONE CIRCUIT BOARD P.W. Board, Head Phone P.W. Board Assembly
	1	1	1	ZZ103H1770	
JW01	1	1	1	YJ01001340	Jack, Head Phone

(W01-99)

Assembly and Wiring

(T01-99)

Adjustment

(X01-00)

Correction

9. TECHNICAL SPECIFICATIONS

AMPLIFIER STAGE

RATED OUTPUT PER CHANNEL

4 OHMS DIN	83W
4 OHMS RMS	63W
8 OHMS DIN	60W
8 OHMS RMS	50W
TOTAL HARMONIC DISTORTION AT RMS 8 OHMS	0.03%
DAMPING FACTOR 8 OHMS (1 kHz)	50

PREAMP STAGE

Frequency Response

Phono: (RIAA)	±1.0 dB (20 – 20 kHz)
Aux: (±2 dB)	16 Hz – 30 kHz

Signal/Noise Ratio

Phono: 7.75 mV 20V out	81 dB
Aux: VOL MAX 20V out	96 dB

Input Sensitivity/Imp.

Phono	2.7 mV/47 k Ω
Auxiliary	160 mV/20 k Ω

FM STAGE (87.5 – 108 MHz)

Sensitivity

DIN Mono (S/N 26 dB, 75 Ω)	1.0 μ V
DIN Stereo (S/N 46 dB, 75 Ω)	20 μ V

Selectivity/Adjacent Channel 98 MHz	60 dB
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Signal/Noise Ratio 98 MHz

Unweighted: Mono	67 dB
Stereo	63 dB
Weighted: Mono	75 dB
Stereo	70 dB

MW STAGE (530 – 1620 kHz)

Sensitivity (20 dB S/N 30% mod., 1 MHz)	30 μ V
Selectivity	30 dB

GENERAL

Power Requirements	220V AC, 50 Hz
(E and N versions are featuring an external voltage selector for use on other voltages. Other versions can be converted by a qualified technician to operate on 240 V.)	

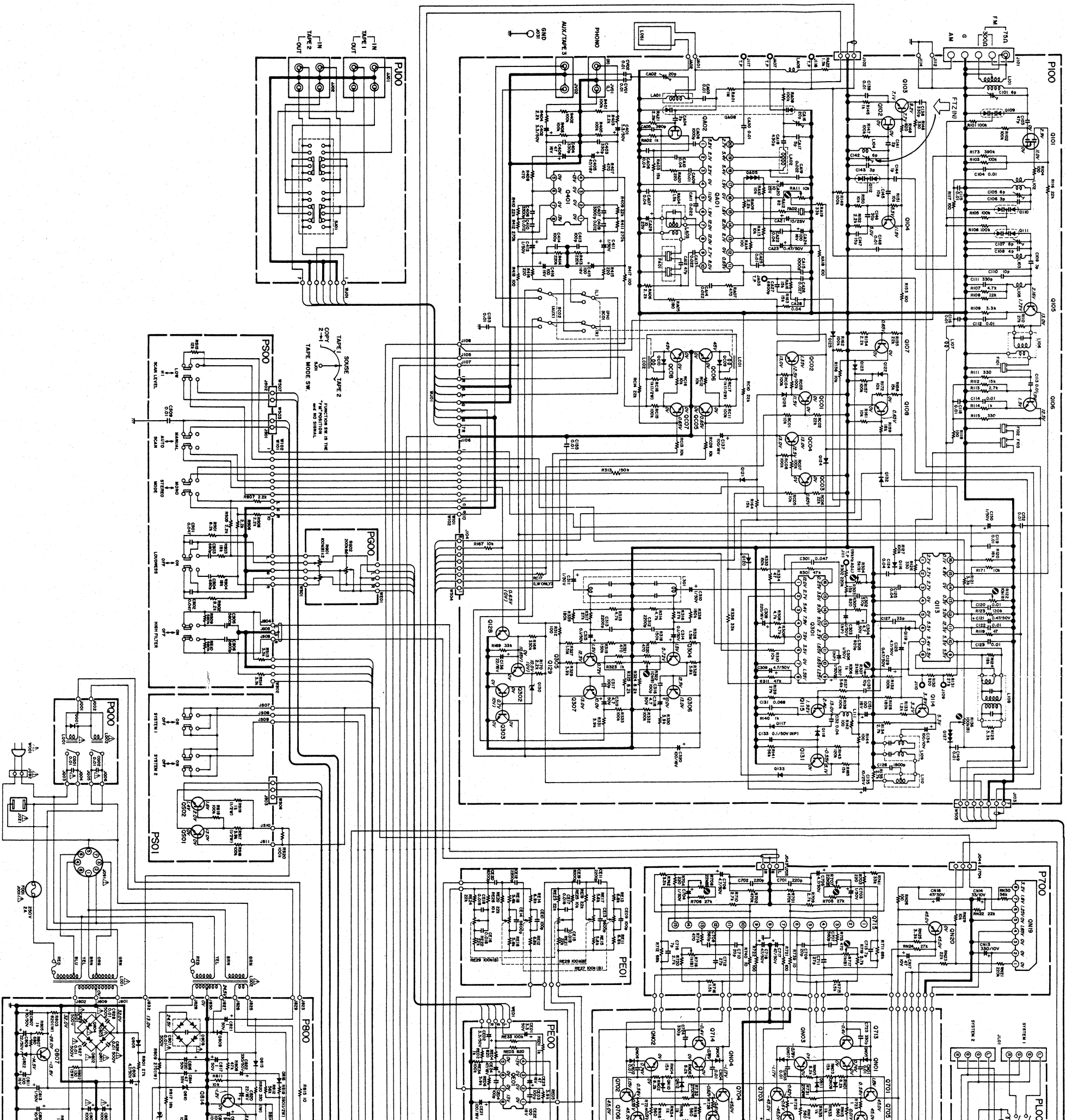
Power Consumption at Rated Output, Both Channels Operating	250W
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Dimensions

Panel Width	416 mm
Panel Height	117.5 mm
Depth	388 mm
Net Weight	10.5 kg

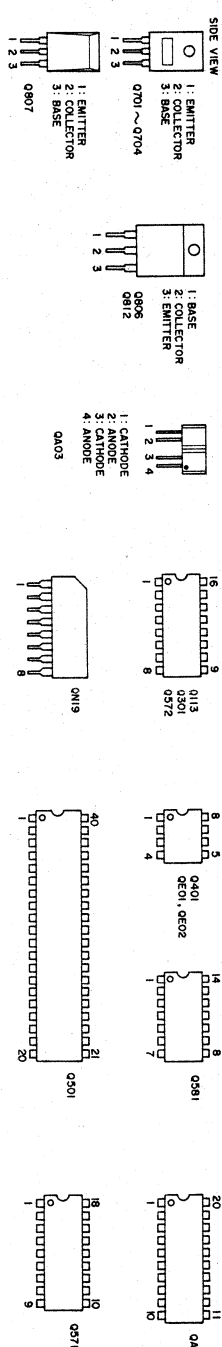
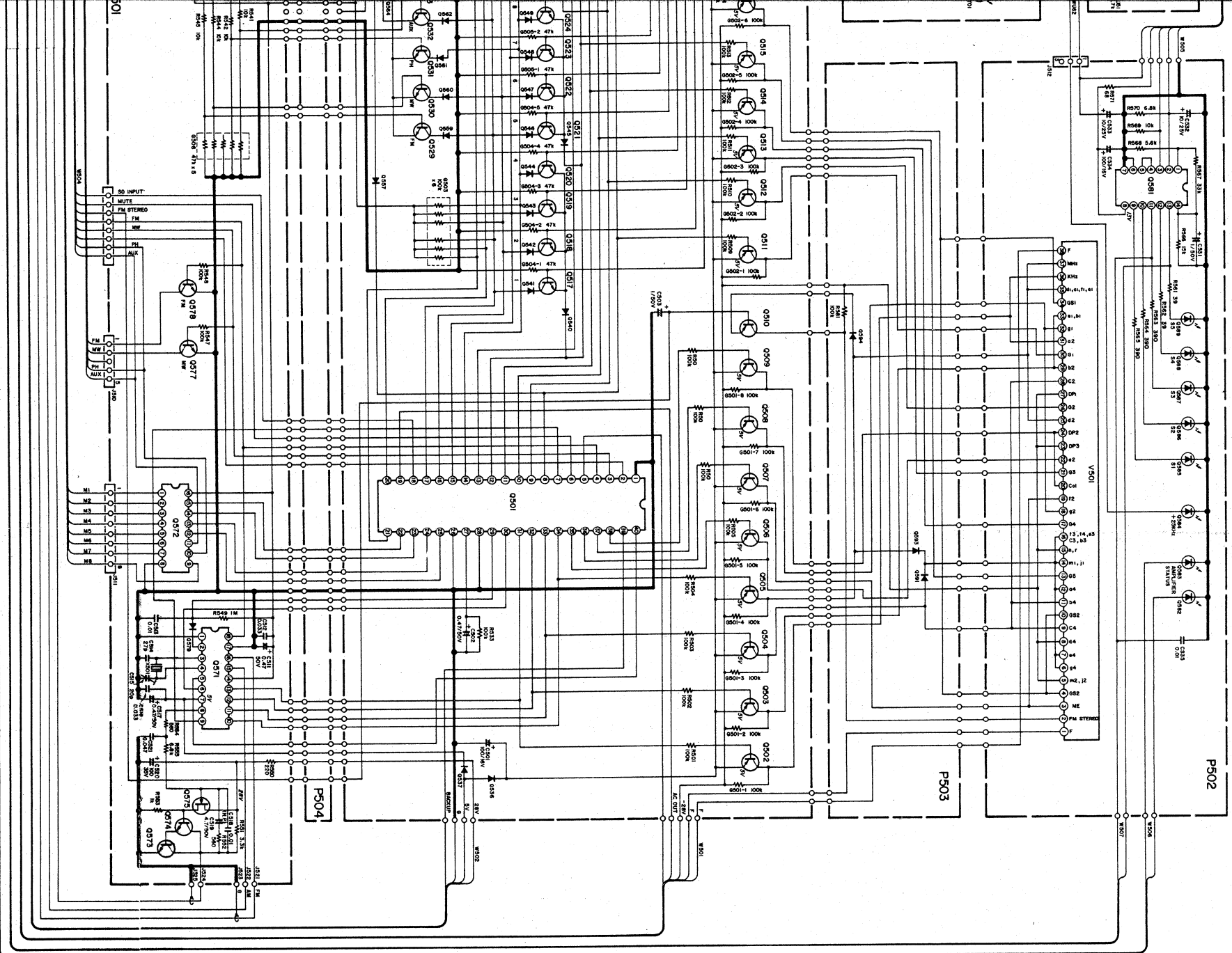
Specifications and appearance are subject to change for modification without notice.

10. SCHEMATIC DIAGRAM



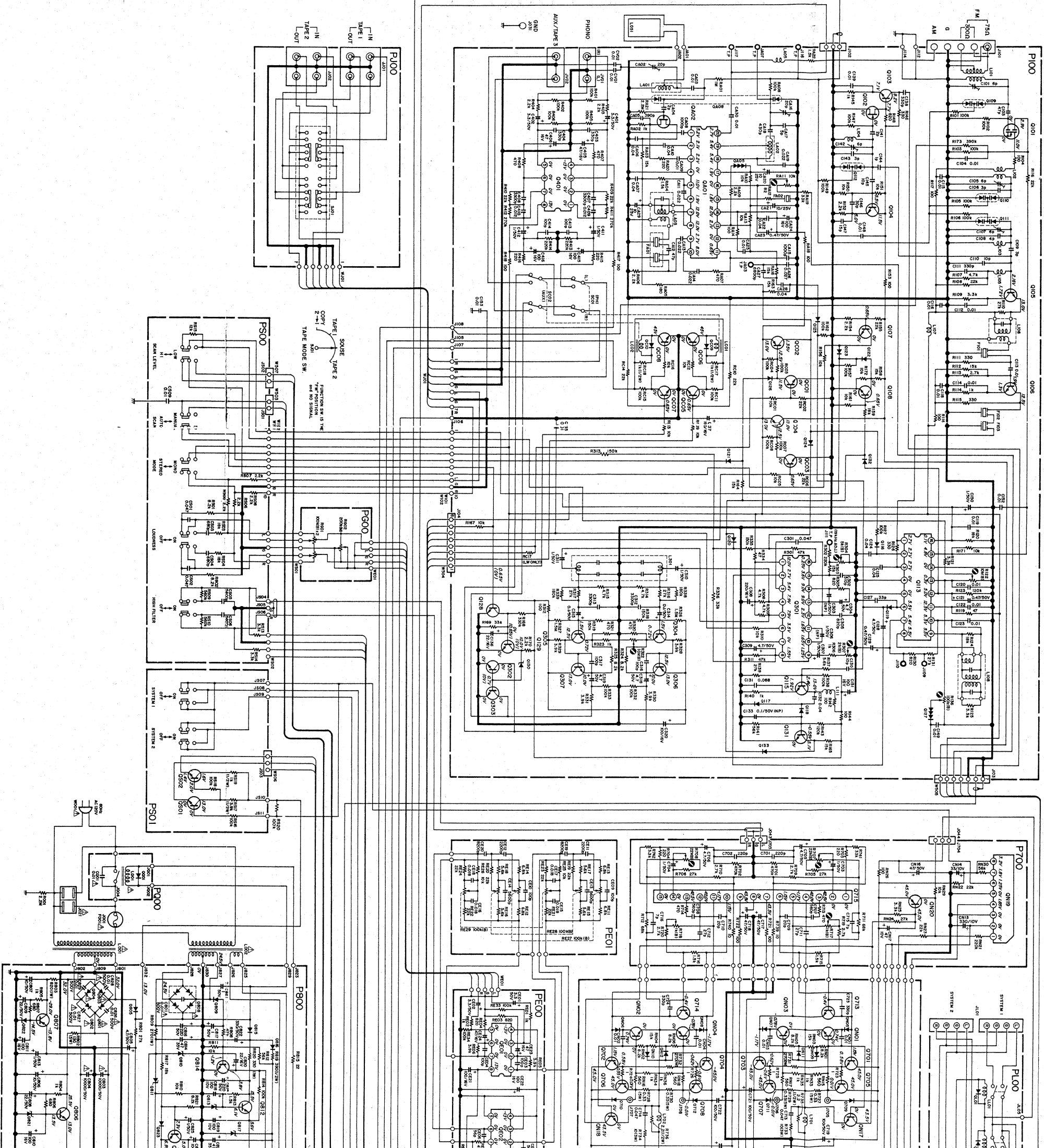
Note on safety: The parts marked with Δ are important parts on the safety. Please use the parts having the designated parts number without fail.

Model SR7100DC(N)

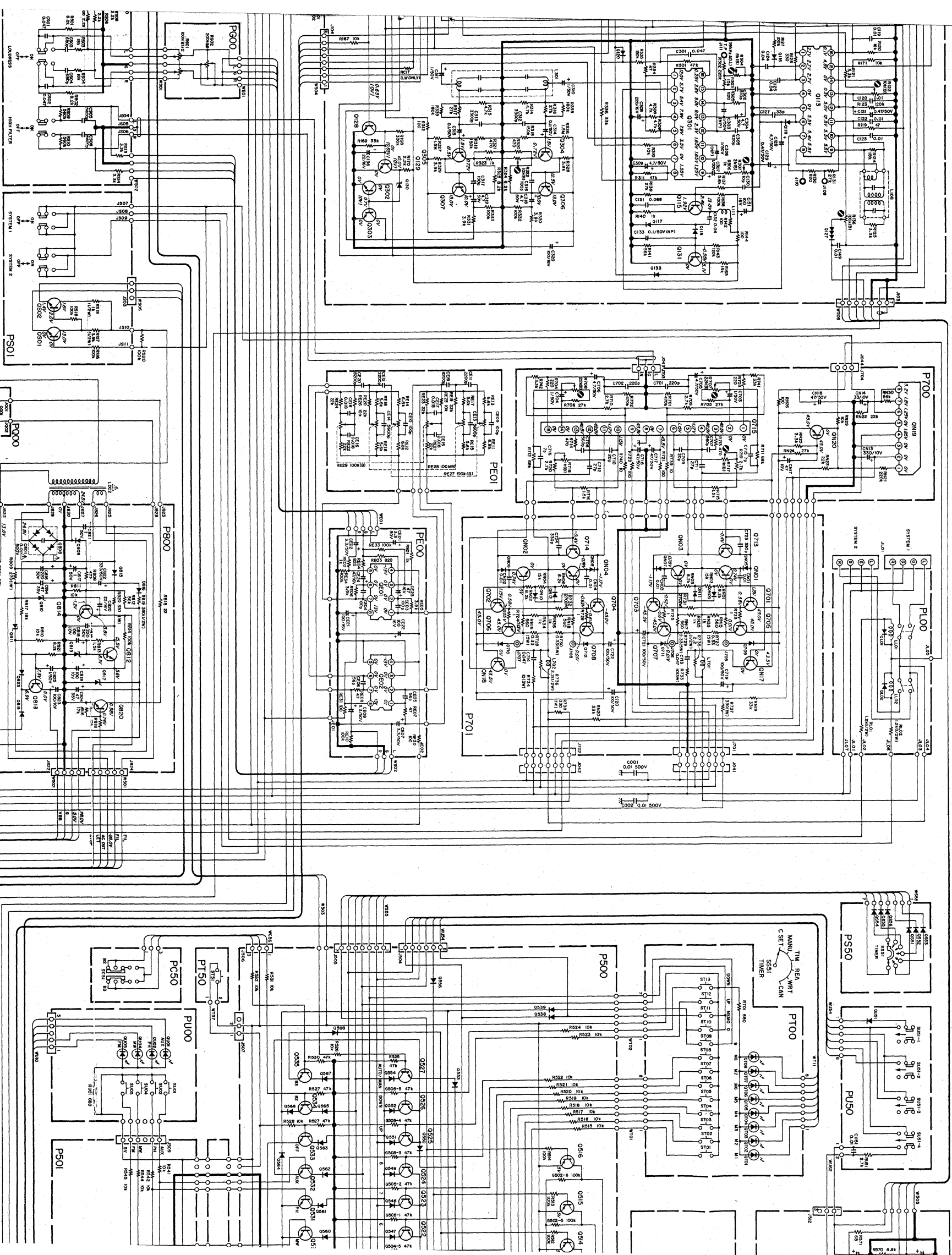


Components and wiring are subject to change for modification without notice.

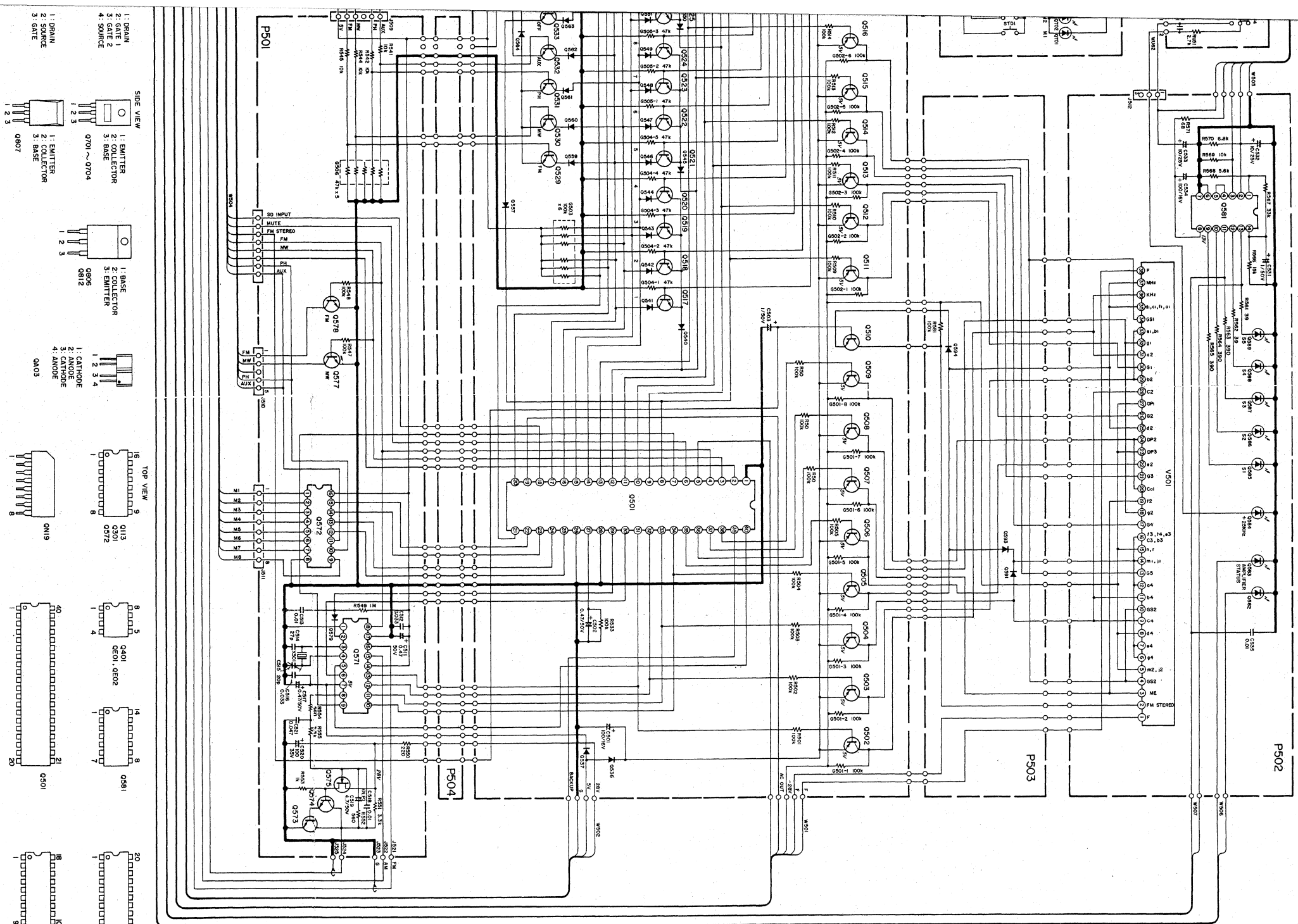
Q101	HF40045180	Q709 ~ Q712	H220010300	Q901	H220010300
Q102	HF20005100	Q713 ~ Q714	H220010300	Q902	H220010300
Q103	HF20005100	Q715 ~ Q716	H220010300	Q903	H220010300
Q104	HF20005100	Q717 ~ Q718	H220010300	Q904	H220010300
Q105	HF20005100	Q719 ~ Q720	H220010300	Q905	H220010300
Q106	HF20005100	Q721 ~ Q722	H220010300	Q906	H220010300
Q107	HF20005100	Q723 ~ Q724	H220010300	Q907	H220010300
Q108	HF20005100	Q725 ~ Q726	H220010300	Q908	H220010300
Q109	HF20005100	Q727 ~ Q728	H220010300	Q909	H220010300
Q110	HF20005100	Q729 ~ Q730	H220010300	Q910	H220010300
Q111	HF20005100	Q731 ~ Q732	H220010300	Q911	H220010300
Q112	HF20005100	Q733 ~ Q734	H220010300	Q912	H220010300
Q113	HF20005100	Q735 ~ Q736	H220010300	Q913	H220010300
Q114	HF20005100	Q737 ~ Q738	H220010300	Q914	H220010300
Q115	HF20005100	Q739 ~ Q740	H220010300	Q915	H220010300
Q116	HF20005100	Q741 ~ Q742	H220010300	Q916	H220010300
Q117	HF20005100	Q743 ~ Q744	H220010300	Q917	H220010300
Q118	HF20005100	Q745 ~ Q746	H220010300	Q918	H220010300
Q119	HF20005100	Q747 ~ Q748	H220010300	Q919	H220010300
Q120	HF20005100	Q749 ~ Q750	H220010300	Q920	H220010300
Q121	HF20005100	Q751 ~ Q752	H220010300	Q921	H220010300
Q122	HF20005100	Q753 ~ Q754	H220010300	Q922	H220010300
Q123	HF20005100	Q755 ~ Q756	H220010300	Q923	H220010300
Q124	HF20005100	Q757 ~ Q758	H220010300	Q924	H220010300
Q125	HF20005100	Q759 ~ Q760	H220010300	Q925	H220010300
Q126	HF20005100	Q761 ~ Q762	H220010300	Q926	H220010300
Q127	HF20005100	Q763 ~ Q764	H220010300	Q927	H220010300
Q128	HF20005100	Q765 ~ Q766	H220010300	Q928	H220010300
Q129	HF20005100	Q767 ~ Q768	H220010300	Q929	H220010300
Q130	HF20005100	Q769 ~ Q770	H220010300	Q930	H220010300
Q131	HF20005100	Q771 ~ Q772	H220010300	Q931	H220010300
Q132	HF20005100	Q773 ~ Q774	H220010300	Q932	H220010300
Q133	HF20005100	Q775 ~ Q776	H220010300	Q933	H220010300
Q134	HF20005100	Q777 ~ Q778	H220010300	Q934	H220010300
Q135	HF20005100	Q779 ~ Q780	H220010300	Q935	H220010300
Q136	HF20005100	Q781 ~ Q782	H220010300	Q936	H220010300
Q137	HF20005100	Q783 ~ Q784	H220010300	Q937	H220010300
Q138	HF20005100	Q785 ~ Q786	H220010300	Q938	H220010300
Q139	HF20005100	Q787 ~ Q788	H220010300	Q939	H220010300
Q140	HF20005100	Q789 ~ Q790	H220010300	Q940	H220010300
Q141	HF20005100	Q791 ~ Q792	H220010300	Q941	H220010300
Q142	HF20005100	Q793 ~ Q794	H220010300	Q942	H220010300
Q143	HF20005100	Q795 ~ Q796	H220010300	Q943	H220010300
Q144	HF20005100	Q797 ~ Q798	H220010300	Q944	H220010300
Q145	HF20005100	Q799 ~ Q800	H220010300	Q945	H220010300
Q146	HF20005100	Q801 ~ Q802	H220010300	Q946	H220010300
Q147	HF20005100	Q803 ~ Q804	H220010300	Q947	H220010300
Q148	HF20005100	Q805 ~ Q806	H220010300	Q948	H220010300
Q149	HF20005100	Q807 ~ Q808	H220010300	Q949	H220010300
Q150	HF20005100	Q809 ~ Q810	H220010300	Q950	H220010300
Q151	HF20005100	Q811 ~ Q812	H220010300	Q951	H220010300
Q152	HF20005100	Q813 ~ Q814	H220010300	Q952	H220010300
Q153	HF20005100	Q815 ~ Q816	H220010300	Q953	H220010300
Q154	HF20005100	Q817 ~ Q818	H220010300	Q954	H220010300
Q155	HF20005100	Q819 ~ Q820	H220010300	Q955	H220010300
Q156	HF20005100	Q821 ~ Q822	H220010300	Q956	H220010300
Q157	HF20005100	Q823 ~ Q824	H220010300	Q957	H220010300
Q158	HF20005100	Q825 ~ Q826	H220010300	Q958	H220010300
Q159	HF20005100	Q827 ~ Q828	H220010300	Q959	H220010300
Q160	HF20005100	Q829 ~ Q830	H220010300	Q960	H220010300
Q161	HF20005100	Q831 ~ Q832	H220010300	Q961	H220010300
Q162	HF20005100	Q833 ~ Q834	H220010300	Q962	H220010300
Q163	HF20005100	Q835 ~ Q836	H220010300	Q963	H220010300
Q164	HF20005100	Q837 ~ Q838	H220010300	Q964	H220010300
Q165	HF20005100	Q839 ~ Q840	H220010300	Q965	H220010300
Q166	HF20005100	Q841 ~ Q842	H220010300	Q966	H220010300
Q167	HF20005100	Q843 ~ Q844	H220010300	Q967	H220010300
Q168	HF20005100	Q845 ~ Q846	H220010300	Q968	H220010300
Q169	HF20005100	Q847 ~ Q848	H220010300	Q969	H220010300
Q170	HF20005100	Q849 ~ Q850	H220010300	Q970	H220010300
Q171	HF20005100	Q851 ~ Q852	H220010300	Q971	H220010300
Q172	HF20005100	Q853 ~ Q854	H220010300	Q972	H220010300
Q173	HF20005100	Q855 ~ Q856	H220010300	Q973	H220010300
Q174	HF20005100	Q857 ~ Q858	H220010300	Q974	H220010300
Q175	HF20005100	Q859 ~ Q860	H220010300	Q975	H220010300
Q176	HF20005100	Q861 ~ Q862	H220010300	Q976	H220010300
Q177	HF20005100	Q863 ~ Q864	H220010300	Q977	H220010300
Q178	HF20005100	Q865 ~ Q866	H220010300	Q978	H220010300
Q179	HF20005100	Q867 ~ Q868	H220010300	Q979	H220010300
Q180	HF20005100	Q869 ~ Q870	H220010300	Q980	H220010300
Q181	HF20005100	Q871 ~ Q872	H220010300	Q981	H220010300
Q182	HF20005100	Q873 ~ Q874	H220010300	Q982	H220010300
Q183	HF20005100	Q875 ~ Q876	H220010300	Q983	H220010300
Q184	HF20005100	Q877 ~ Q878	H220010300	Q984	H220010300
Q185	HF20005100	Q879 ~ Q880	H220010300	Q985	H220010300
Q186	HF20005100	Q881 ~ Q882	H220010300	Q986	H220010300
Q187	HF20005100	Q883 ~ Q884	H220010300	Q987	H220010300
Q188	HF20005100	Q885 ~ Q886	H220010300	Q988	H220010300
Q189	HF20005100	Q887 ~ Q888	H220010300	Q989	H220010300
Q190	HF20005100	Q889 ~ Q890	H220010300	Q990	H220010300
Q191	HF20005100	Q891 ~ Q892	H220010300	Q991	H220010300
Q192	HF20005100	Q893 ~ Q894	H220010300	Q992	H220010300
Q193	HF20005100	Q895 ~ Q896	H220010300	Q993	H220010300
Q194	HF20005100	Q897 ~ Q898	H220010300	Q994	H220010300
Q195	HF20005100	Q899 ~ Q900	H220010300	Q995	H220010300
Q196	HF20005100	Q901 ~ Q902	H220010300	Q996	H220010300
Q197	HF20005100	Q903 ~ Q904	H220010300	Q997	H220010300
Q198	HF20005100	Q905 ~ Q906	H220010300	Q998	H220010300
Q199	HF20005100	Q907 ~ Q908	H220010300	Q999	H220010300
Q200	HF20005100	Q909 ~ Q910	H220010300		



Note on safety: The parts marked with Δ are important parts on the safety. Please use the parts having the designated parts number without fail.



are important
use the parts
parts number



0101	HC4024560	0709-0712
0102	HC4024560	0709-0712
0103	HC4024560	0709-0712
0104	HC4024560	0709-0712
0105	HC4024560	0709-0712
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0196	HC4024560	0709-0712
0197	HC4024560	0709-0712
0198	HC4	

Components and wiring are subject to change for modification without notice.