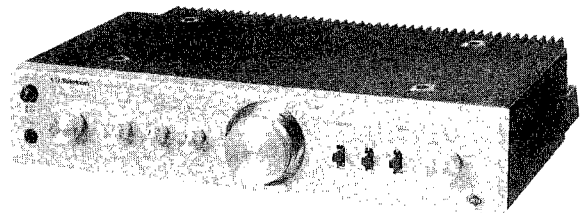


GENERAL / Teleton

MODEL : A380 STEREO Hi-Fi AMPLIFIER

SERVICE MANUAL

SH 097/28



Germany: GENERAL CORPORATION JAPAN (Euro) GmbH
D-4000 Düsseldorf-Heerdt, Werftstr. 20
Tel. 0211-50 47 021 Tlx. 8588366

Great Britain: TELETON Electro (U.K.) Co. Ltd.
Somerton Works, Prince Avenue,
Westcliff-on-Sea, Essex, SSO 0HU
Tel. 0702 337681 Tlx. 99338

Netherlands: GENERAL CORPORATION JAPAN (NL) B.V.
Marconiweg 10, Vianen
Tel. 03 473-37 44 Tlx. 40 581

Distributor:

<u>Switzerland</u>	<u>France</u>
Allelectric AG	TELECTRODIS S.A.
Gartenstr. 12	21, rue Paul-Lafargue,
5600 Lenzburg	94270 Le Kremlin-Bicêtre
Tel. 064 51 6951	Tel. 6 77 69 34
Tlx. 68 208	Tlx. 20 44 68

Specifications are subject to change without notice.

SPECIFICATIONS

ELECTRICAL PERFORMANCE

Output power
at 1,000 Hz, 0.7% THD. (8Ω) : 22 Watts.

Power Bandwidth (8Ω, 0.7%, -3dB) : 10W, 10Hz-30,000 Hz

Frequency Range for Rated Power
(8Ω) & THD. (0.7%) : 20W, 40Hz-20,000 Hz

Maximum Input Signal
(Input: 1,000 Hz, output: 2 watts, 0.7% THD.)

Tuner	: 4V
Phono (magnetic)	: 50 mV
AUX	: 4V
Tape	: 4V

Frequency Response (Output: 2 watts at 1,000 Hz)

Tuner/AUX/Tape	: 40 Hz-16,000 Hz ±0.8 dB
Phono (equalizer: RIAA)	: 40 Hz-16,000 Hz ±1 dB

Tone Control Characteristics (Input : AUX)

Bass	: 100 Hz	+8 dB -10 dB
Treble	: 10,000 Hz	±10dB

Loudness (Input : AUX 200mV, volume control: maximum gain minus 30 dB.)

100 Hz	+10 dB
10,000 Hz	+5 dB

High-cut filter fc = 4 kHz -6 dB/oct.
Low-cut filter fc = 100 Hz -6 dB/oct.

Input Sensitivity & Input Impedance (Output: 20 watts at 1,000 Hz)

Tuner	: 200 mV/120 KΩ
AUX	: 200 mV/120 KΩ
Tape	: 200 mV/120 KΩ
Phono	: 3 mV/47 KΩ

Minimum Volume Hum & Noise : 0.75mV

Signal to Noise Ratio
(Output power: 50 m watts at 1,000 Hz, unweighted)

Tuner	: 58 dB
AUX	: 58 dB
Tape	: 58 dB
Phono	: 58 dB

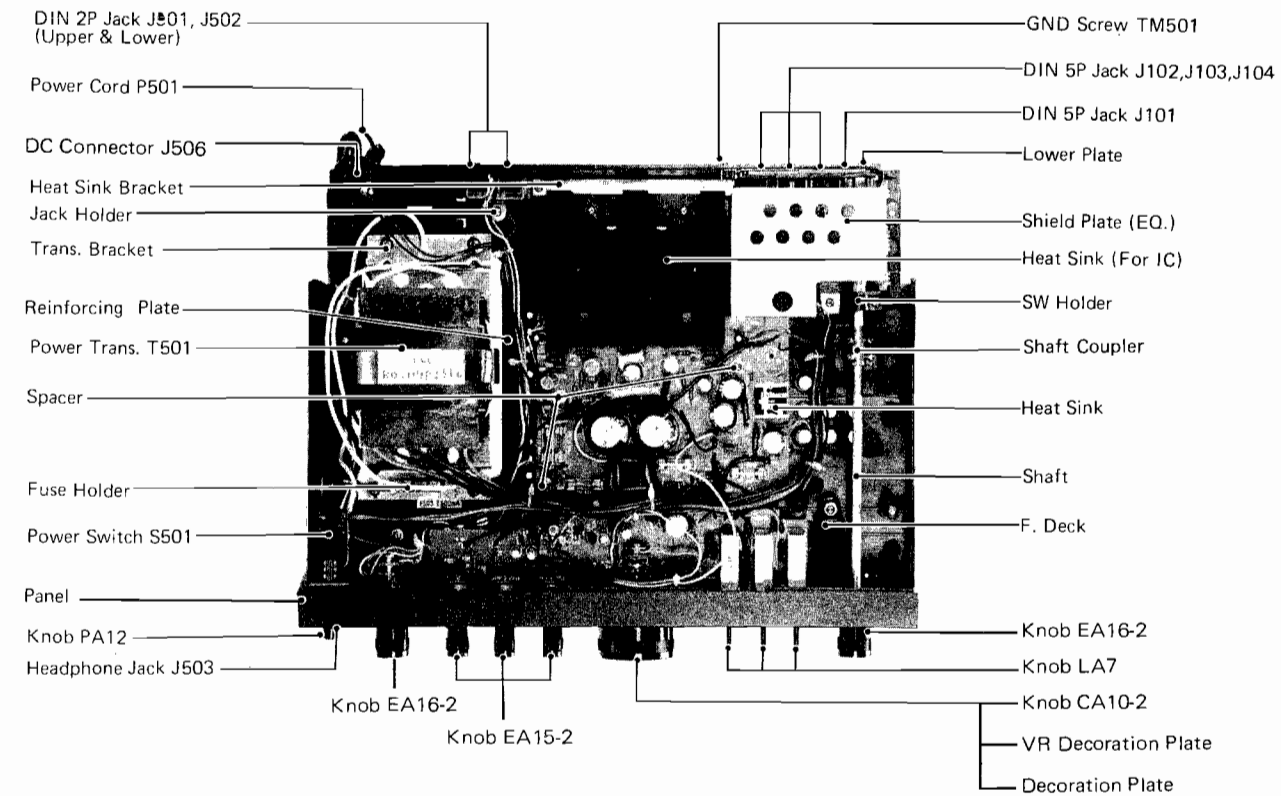
Channel Gain Difference
(Volume control shall be changed from max. position to -46 dB).

at 1,000 Hz	4 dB max.
250 Hz - 6,300 Hz	4 dB max.

Tape Output Voltage and Output Impedance
(Input: AUX at 1,000 Hz)

Output voltage	: 12 mV/47 KΩ
Output impedance	: 88 kΩ ±20%

PARTS LOCATION

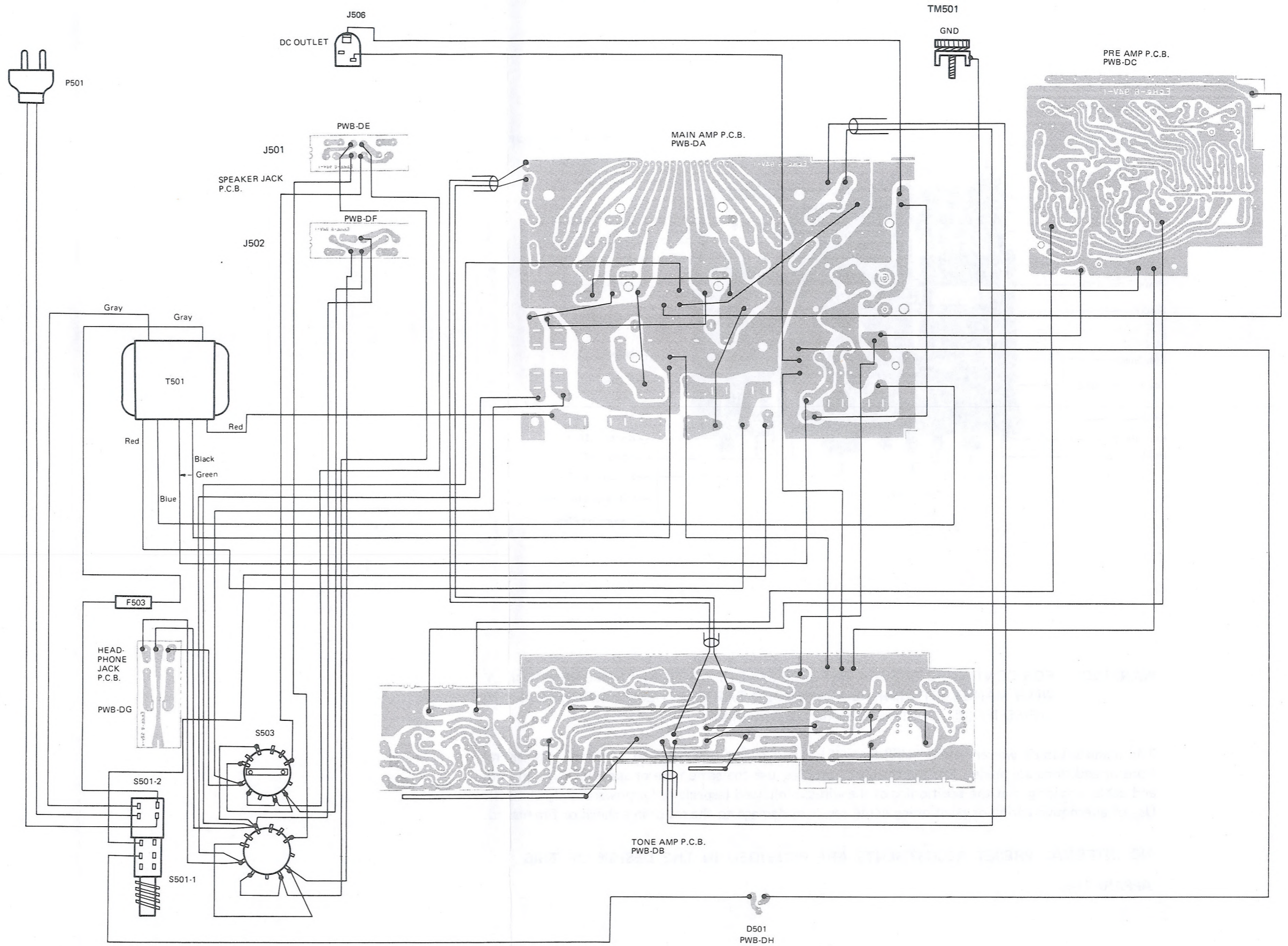


WARNING: FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER RECOMMENDED PARTS. THESE PARTS ARE IDENTIFIED BY (⚠) ON THE SCHEMATIC DIAGRAM.

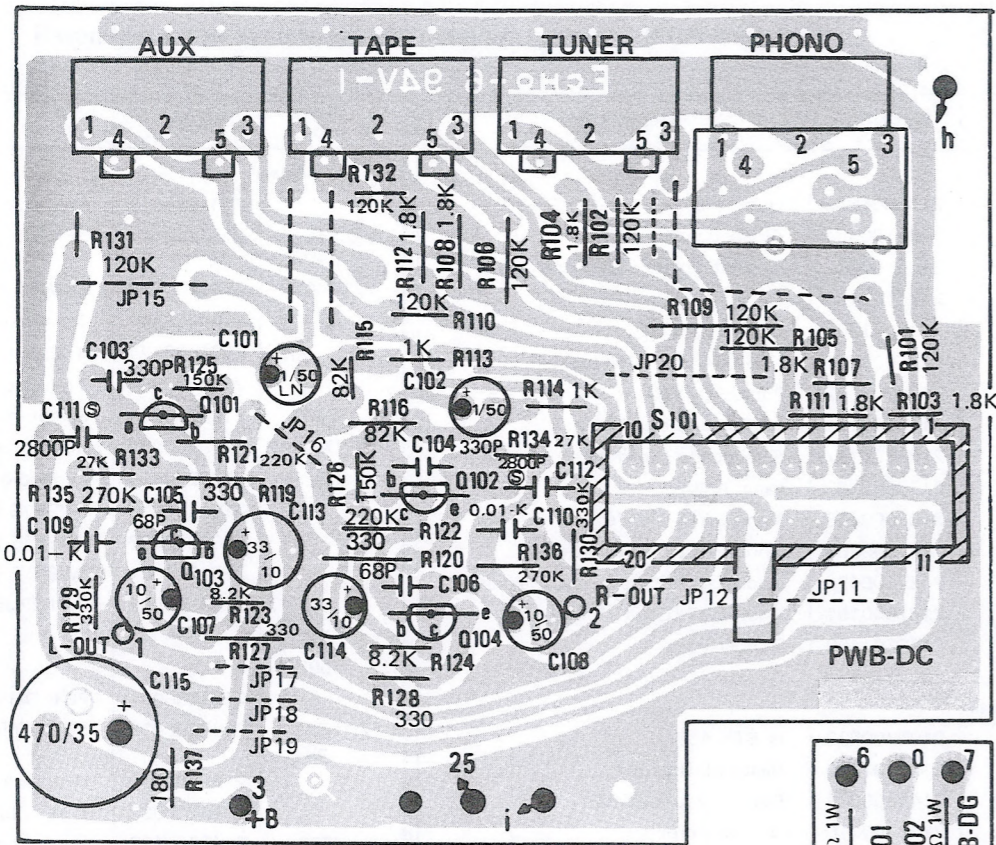
The manufacturer's warranty and liabilities will be void if any unauthorized modifications, alterations or additions are made. For replacement purposes, use the same type or specified type of wire and cable, ensuring that the positioning of the wires is followed (especially for power supply circuits). Use of alternative wiring or positioning could result in damage to the set or in a shock or fire hazard.

NO INTERNAL PRESET ADJUSTMENTS ARE PROVIDED IN THE DESIGN OF THIS APPARATUS.

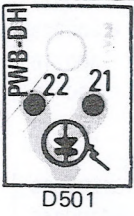
WIRING DIAGRAM



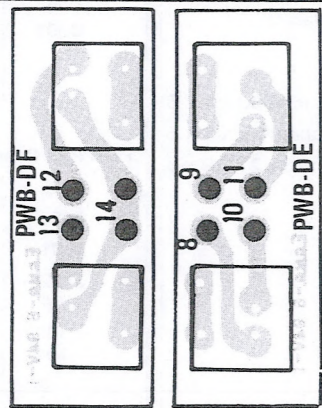
PRE AMP P.C. BOARD (PWB-DC)



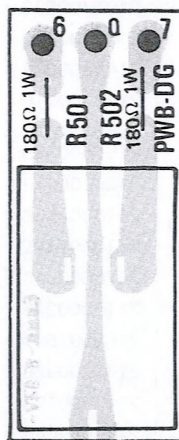
LED
P.C. Board
(PWB-DH)



Speaker Jack
P.C. Board
(PWB-DE)
(PWB-DF)

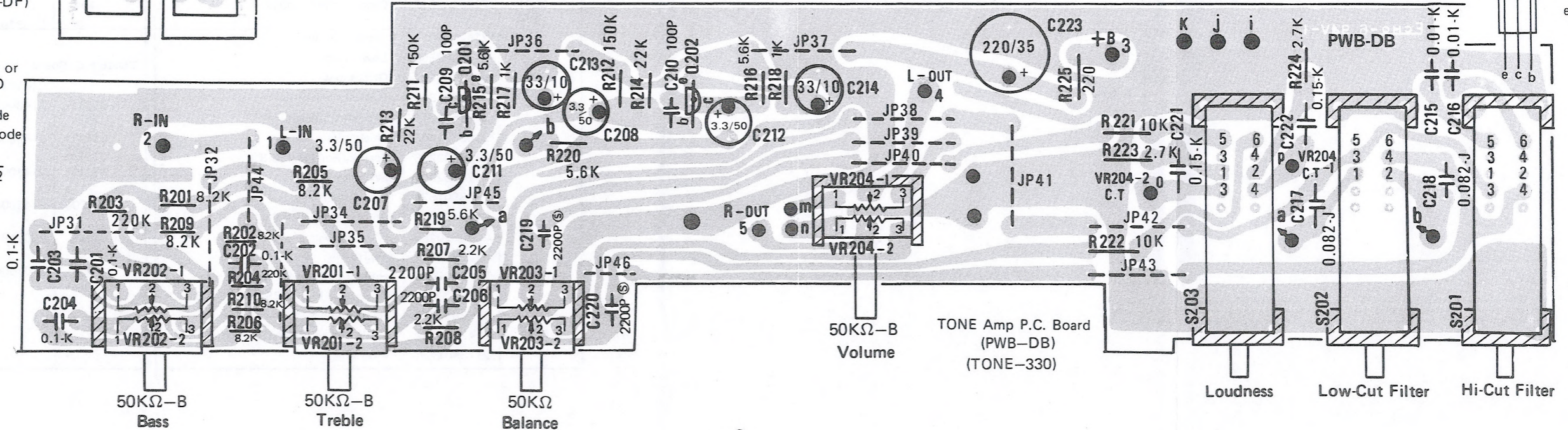
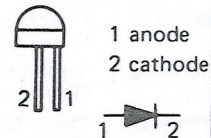


Headphone
Jack P.C. Board
(PWB-DG)

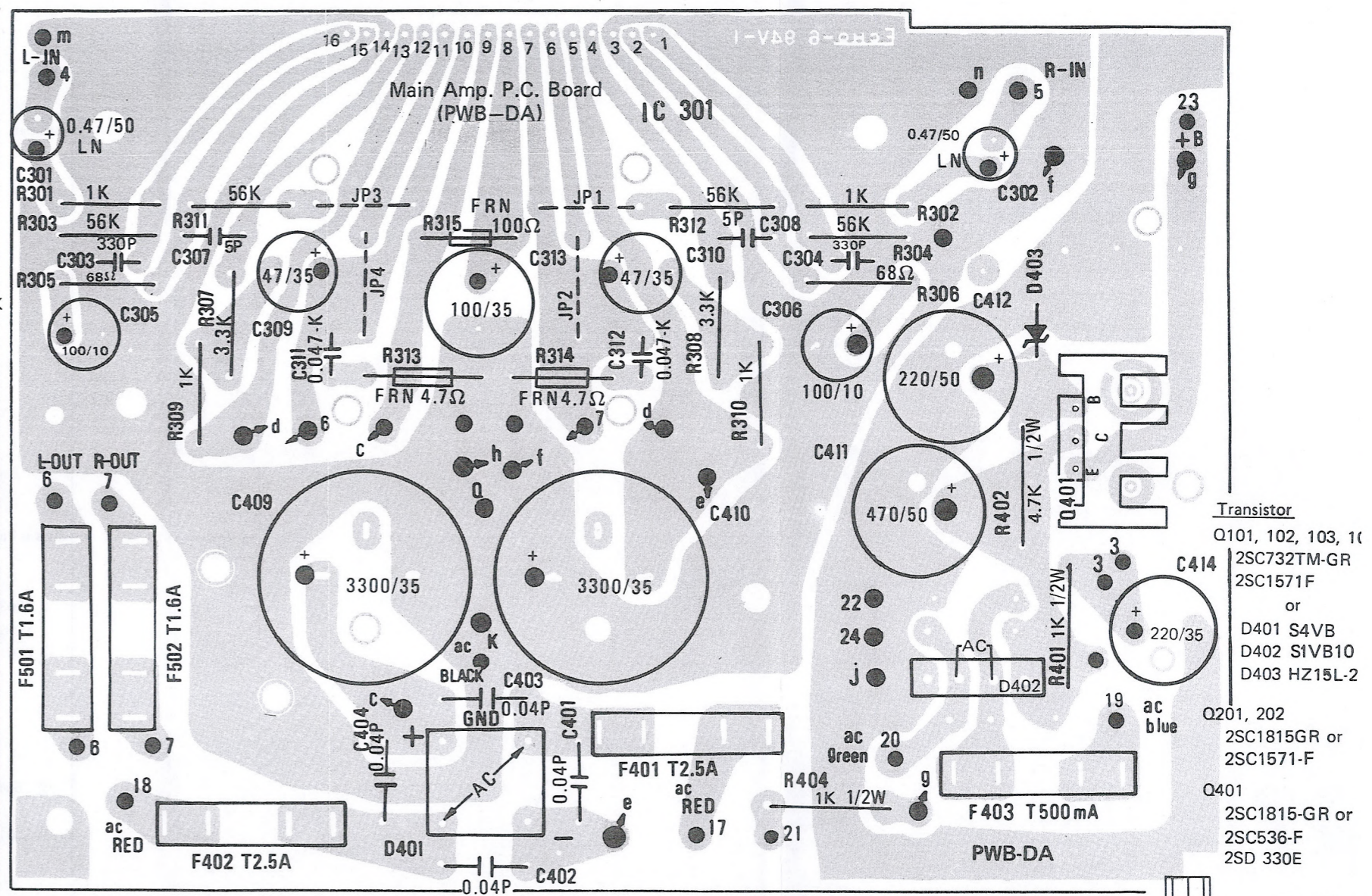


Diode
D501

TLR102 RED or
N23SRP RED



P.C. BOARD



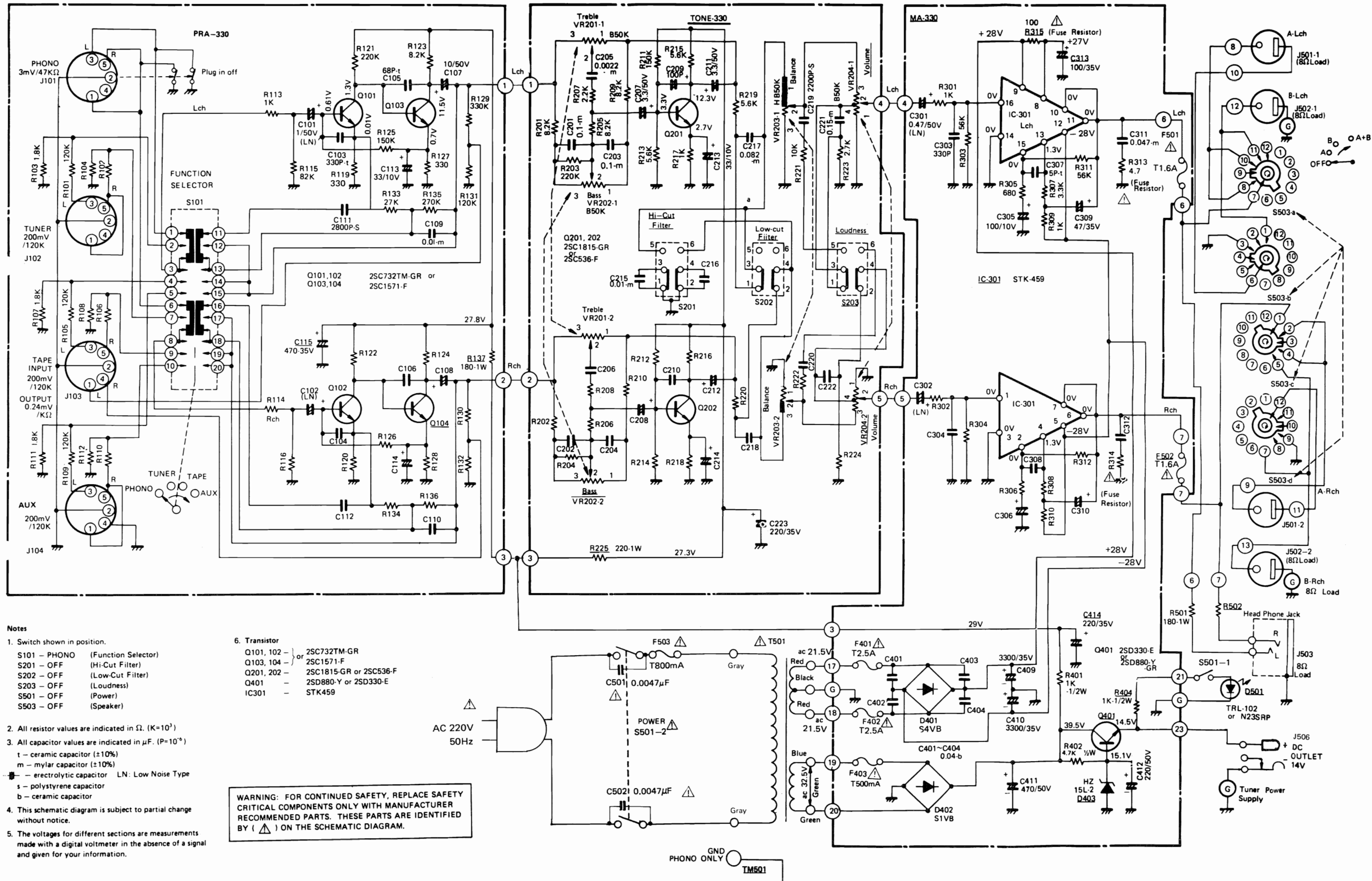
- Transistor
Q101, 102, 103, 104
2SC732TM-GR
2SC1571F
or
D401 S4VB
D402 S1VB10
D403 HZ15L-2
- Q201, 202
2SC1815GR or
2SC1571-F
- Q401
2SC1815-GR or
2SC536-F
2SD 330E

PARTS LIST

(Standard Parts Resistors, Capacitors, Screws are not listed here.)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Cabinet			MA P.C. Board		
	2176001505	Upper plate		2161230013	PWB-DA (B,C,E,F)
	2186100364	Adiabatic plate (P.T.)	△ F401, 402	2147200114	SEMKO fuse 250V T2.5A
	2186100392	Adiabatic plate (Stabilizer)	△ F403	2147200022	SEMKO fuse 250V T500mA
	2186100420	Adiabatic plate (IC)	Q401	2104500544	Transistor 2SD880-Y
	2171201262	Decoration plate	or	2104500174	Transistor 2SD330-E
	2187000371	Knob CA10-2 (Volume)	or	2104500559	Transistor 2SD880-GR
	2176601992	Pointer B (VR)	D401	2109200124	Silicon rect. (Stack-F) S4VB20-F
	2176602104	VR Decoration plate	D402	2109200222	Silicon rect. (Stack) S1VB10
	2186100387	Shield plate (For tuner)	D403	2108200319	Zener diode HZ15L-2
	2176002662	Panel A380		2161235008	PWB-DG (A,B,C,E,F,H)
	2187100488	Knob EA16-2 (Selector)		2161233007	PWB-DE (A,B,C,F,G,H)
	2187300305	Knob PA12 (Power Switch)		2161234004	PWB-DF (A,B,C,E,F,H)
	2187100476	Knob EA15-2 (Bass, Tre., Balance)	J501-1, 501-2, 502-1, 502-2	2149300802	DIN 2P Jack
	2187600151	Knob LA7 (Loud., Filter)			
	2176301400	Rubber Foot			
Chassis Parts				2161236001	PWB-DH (A,B,C,E,F,G)
	2102400232	IC STK-459	△ F501, 502	2147200036	SEMKO fuse (2093) T1.6A 250V
	2168101040	Heat sink (For IC)		2168100961	Heat sink
S503	2148000023	Rotary switch (1089)		2149200033	Fuse holder (4013)
J506	2149300810	DC connector	J503	2149300827	Headphone Jack
△ P501	2095002641 2195000065	Power cord (144) 2P Class II	D501	2111300223	LED TLR102 (RED)
	2186100413	Shield plate (For EQ)		2111300216	or LED N23SRP (RED)
	2176301439	Cushion A (For shield plate) 90 x 8 x 5		2176300468	Rubber (For LED)
	2176301442	Cushion B (For shield plate) 35 x 8 x 5	PRA P.C. Board		
	2176300343	Cushion C (For shield plate) 21 x 9 x 5		2161232009	PWB-DC (A,B,E,F,G,H)
△ T501	2117300225	Power trans.	S101	2148100449	Slide rotary switch
	2168507887	Trans. bracket	J101	2149300912	DIN 5P jack TCS-0720
△ S501	2148200396	Power switch	J102~104	2149300792	DIN 5P jack TCS-700
	2149200103	Fuse holder	Q101~104	2103000649	Transistor 2SC732TM-GR
	2176602047	Plastic foot	or	2103100370	Transistor 2SC1571-F
△ C501, 502	2129100017	Capacitor MP 0.0047μF	TONE P.C. Board		
	2182000059	Capacitor cover		2161231000	PWB-DB (A,C,E,F,G,H)
	2176002656	Lower plate	S201~203	2148400133	Lever switch
TM501	2149100192	GND screw	VR201, 202	2143000445	Center Click B50K x 2 (Tone control)
	2176001600	F. deck	VR203	2143000432	Center Click HB50K x 2 (Balance control)
	2168507541	Heat sink bracket	VR204	2143000450	41 Detent B50K x 2 (Volume control)
	2168101008	Shield plate	Q201, 202	2003181523	Transistor 2SC1815GR
	2176602276	Spacer (For MA P.C.B.)	or	2103000043	Transistor 2SC536F
	2176602005	SW holder			
	2168507524	Jack holder			
	2182400062	Cord stopper SR-4P-4			
	2170600455	Shaft coupler			
	2170600461	Shaft			
	2176301425	Rubber cushion B (12φ x 8)			
	2176300007	Rubber cushion (775) 5 x 15 x 5			
	2168507786	Reinforcing plate			
△ F503	2147200121	SEMKO fuse 250V T800mA			
	2175901731	Fuse label			

SCHEMATIC DIAGRAM



- Notes**
- Switch shown in position.
 - All resistor values are indicated in Ω . ($K=10^3$)
 - All capacitor values are indicated in μF . ($P=10^{-9}$)
 t - ceramic capacitor ($\pm 10\%$)
 m - mylar capacitor ($\pm 10\%$)
 — electrolytic capacitor LN: Low Noise Type
 s - polystyrene capacitor
 b - ceramic capacitor
 - This schematic diagram is subject to partial change without notice.
 - The voltages for different sections are measurements made with a digital voltmeter in the absence of a signal and given for your information.

- 6. Transistor**
- Q101, 102 - 2SC732TM-GR
 - Q103, 104 - 2SC1571-F
 - Q201, 202 - 2SC1815-GR or 2SC536-F
 - Q401 - 2SD880-Y or 2SD330-E
 - IC301 - STK459

WARNING: FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER RECOMMENDED PARTS. THESE PARTS ARE IDENTIFIED BY (Δ) ON THE SCHEMATIC DIAGRAM.