ISO

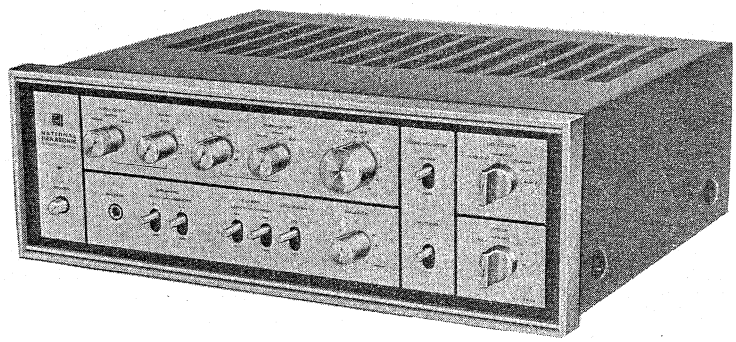
ORDER NO.SD-231

National PANASONIC

Service Manual

STEREO INTEGRATED AMPLIFIER

MODEL SU-3600



SPECIFICATIONS

MAIN AMPLIFIER SECTION

Music Power (IHF):	180 W (4Ω)
	120 W (8Ω)
RMS Power:	60/60 W (4Ω)
	50/50 W (8Ω)
Total Harmonic Distortion:	0.2%
Power Bandwidth:	7 Hz – 50 kHz, 3 dB
Frequency Response:	5 Hz – 100 kHz, –3 dB
Residual Hum & Noise:	1.8 mV
S/N (IHF):	110 dB
Damping Factor:	100 (8Ω)
Input Sensitivity & Impedance:	1 V, 80 KΩ
Output Impedance:	4 – 16Ω

PRE AMPLIFIER SECTION

Input Sensitivity & Impedance:	
Phono 1	1.5 mV 50 KΩ
Phono 2	1.5 mV 30K, 50K, 100K, 200 KΩ
Tuner	100 mV 50 KΩ
Aux. 1	100 mV 30K Ω
Aux. 2	100 mV 50 KΩ
Phono Max. Input Voltage (THD: 0.1% at 1 kHz):	130 mV
Total Harmonic Distortion:	0.1%
S/N (IHF):	
Phono	73 dB
Tuner, Aux.	85 dB
Output Voltage & Impedance:	
Rated	1 V, 5 KΩ
Maximum (THD: 0.1% at 1 kHz)	3 V, 5 KΩ
Frequency Response:	
Phono (RIAA Standard Curve)	± 0.5 dB
Aux.	5 Hz – 90 kHz, –3 dB
Tone Control:	
Bass	20 Hz +17 dB, –18 dB
Treble	20 kHz ± 15 dB
Turn Over Frequency:	
Bass	125, 250, 500 Hz
Treble	2K, 4K, 8 kHz
Low Filter:	30 Hz, –12 dB/oct
High Filter:	8 kHz, –12 dB/oct
Muting:	–20 dB
Tape Monitor:	
Playback	200 mV, 80 KΩ
Recording	100 mV, 10 KΩ
Rec./Play (DIN)	
Input	500 mV, 50 KΩ
Output	30 mV, 80 KΩ

GENERAL

Power Consumption:	20 – 500 W
Power Supply:	110/120/220/240 V (50/60 Hz)
Dimensions (Wide × High × Deep):	420 × 150 × 373 mm
	(16-17/32″) (5-29/32″) (14-11/16″)
Weight:	12.5 kg (27.6 lbs.)

* Specification are subject to change without notice.

TECHNISCHE DATEN

KRAFTVERSTÄRKERTEIL

Musikleistung (IHF):	180 W (4Ω)
	120 W (8Ω)
Nennleistung:	60/60 W (4Ω)
	50/50 W (8Ω)
Klirrfaktor:	0.2%
Leist tungsbandbreite:	7 Hz – 50 kHz, –3 dB
Frequenzgang:	5 Hz – 100 kHz, –3 dB
Restbrumm und Rauschen:	1.8 mV
Fremdspannungsabstand (IHF):	110 dB
Dämpfungstaktor:	100 (8Ω)
Eingangsempfindlichkeit und Eingangsimpedanz:	1 V, 80 KΩ
Nennbelastung:	4 – 16Ω

VORVERSTÄRKERTEIL

Eingangsempfindlichkeit und Eingangsimpedanz:	
Phono 1	1.5 mV 50 KΩ
Phono 2	1.5 mV 30K, 50K, 100K, 200 KΩ
Tuner	100 mV 50 KΩ
Aux. 1	100 mV 30 KΩ
Aux. 2	100 mV 50 KΩ
Phono Maximale Eingangsspannung (Klirrfaktor: 0.1%, 1 kHz):	130 mV
Klirrfaktor:	0.1%
Fremdspannungsabstand (IHF):	
Phono	73 dB
Tuner, Aux.	85 dB
Ausgangsspannung und Eingangsimpedanz:	
Nennspannungen	1 V, 5 KΩ
Maximale Spannungen (Klirrfaktor: 0.1%, 1 kHz)	3 V, 5 KΩ
Frequenzgang:	
Phono (Abweichung vom RIAA Standard)	± 0.5 dB
Aux.	5 Hz – 90 kHz, –3 dB
Klangregler:	
Tiefen-Bereich (Bass)	20 Hz +17 dB, –18 dB
Höhen-Bereich (Treble)	20 kHz ± 15 dB
Umkehr-Frequenz:	
Bass	125, 250, 500 Hz
Treble	2K, 4K, 8 kHz
Tiefenfilter:	30 Hz, –12 dB/oct
Höhenfilter:	8 kHz, –12 dB/oct
Dämpfen (Muting):	–20 dB
Bandaussteuerungspegel:	
Play	200 mV, 80 KΩ
Rec.	100 mV, 10 KΩ
Rec./Play (Diodenbuchse) Eingang	500 mV, 50 KΩ
Ausgang	30 mV, 80K Ω

ALLGEMEINE DATEN

Leistungsaufnahme:	20 – 500 W
Netzspannung:	110/120/220/240 V (50/60 Hz)
Abmessungen (B × H × T):	420 × 150 × 373 mm
Gewicht:	12.5 kg

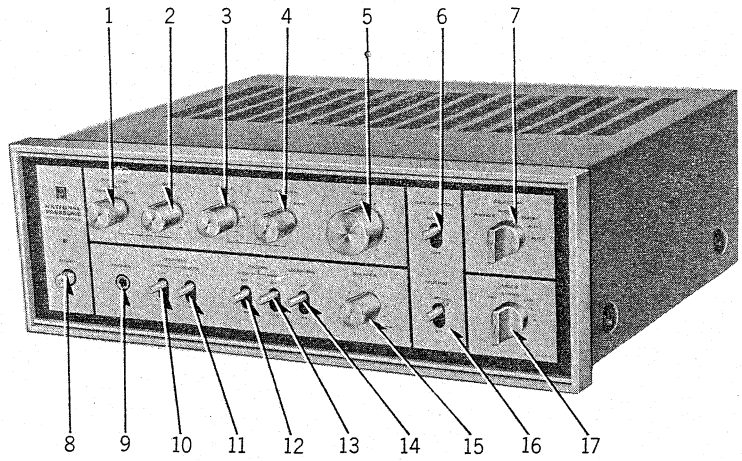
* Änderungen vorbehalten.

<EXPORT DIVISION>
MATSUSHITA ELECTRIC TRADING CO., LTD.
P. O. Box 288, Central Osaka, Japan

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
RADIO and STEREO DIVISION

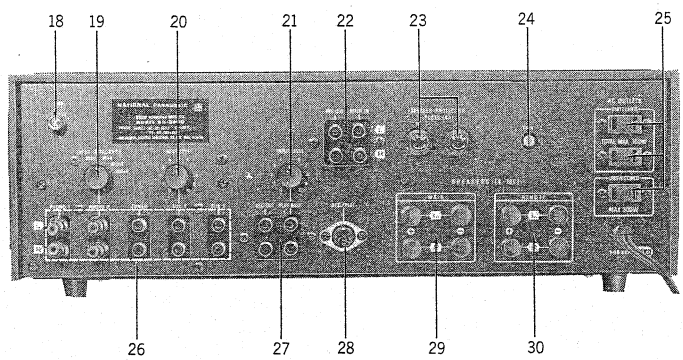
LOCATION OF CONTROLS

ANORDUNG DER EINSTELLKNÖPFE



1. TURN OVER FREQUENCY SWITCH.....125, 250, 500 Hz
2. BASS CONTROL
3. TREBLE CONTROL
4. TURN OVER FREQUENCY SWITCH.....2K, 4K, 8 kHz
5. VOLUME CONTROL
6. TAPE MONITOR SWITCH
7. INPUT SELECTOR SWITCH
8. POWER SOURCE SWITCH
9. HEAD-PHONES SOCKET
10. SPEAKER SWITCH.....MAIN
11. SPEAKER SWITCH.....REMOTE
12. FILTER SWITCH .....LOW
13. FILTER SWITCH .....HIGH
14. LOUDNESS SWITCH
15. BALANCE CONTROL
16. MUTING SWITCH
17. MODE SELECTOR SWITCH

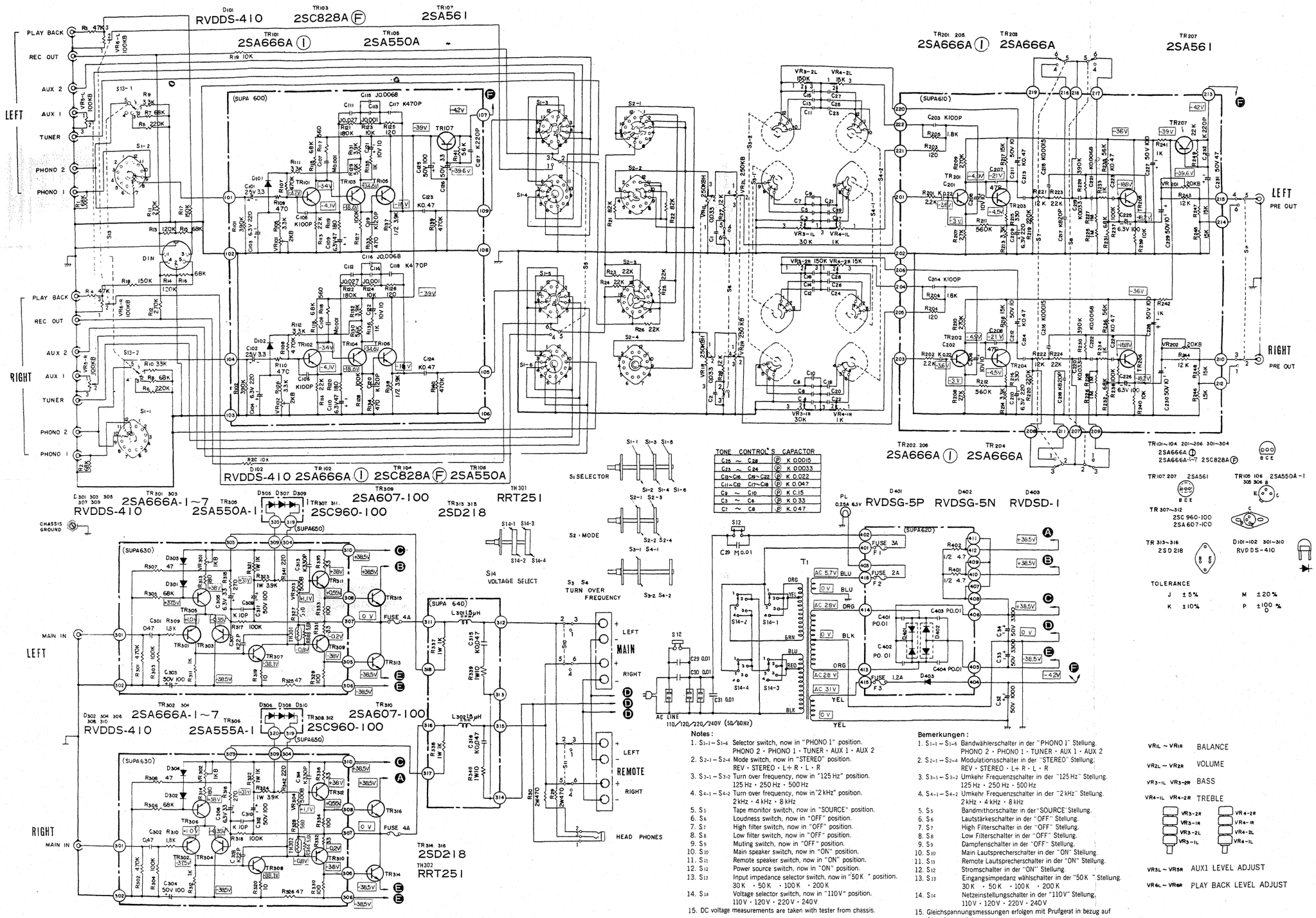
1. UMKEHR-FREQUENZSCHALTER.....125, 250, 500 Hz
2. BASS
3. TREBLE
4. UMKEHR-FREQUENZSCHALTER.....2K, 4K, 8 kHz
5. LAUTSTÄRKE
6. BANDMITHÖRSCHALTER
7. EINGANGS-WAHLSCHALTER
8. STROMSCHALTER
9. KOPFHÖRER-STECKDOSE
10. LAUTSPRECHERSCHALTER.....MAIN
11. LAUTSPRECHERSCHALTER.....REMOTE
12. FILTERSCHALTER.....TIEF (LOW)
13. FILTERSCHALTER.....HOCH (HIGH)
14. KLANGABSTIMMUNG
15. BALANCE
16. DÄMPFSCHALTER
17. BETRIEBSART



18. GROUND TERMINAL
19. PHONO 2 INPUT INPEDANCE SELECTOR SWITCH
20. AUX 1 INPUT LEVEL CONTROL
21. PLAY BACK INPUT LEVEL CONTROL
22. PRE-AMP AND MAIN-AMP CONNECTION TERMINAL
23. SPEAKER PROTECTION FUSE HOLDER
24. VOLTAGE ADJUSTMENT
25. AC OUTLETS
26. INPUT TERMINALS
27. TAPE MONITOR TERMINAL
28. DIN SOCKET
29. MAIN SPEAKERS TERMINAL
30. REMOTE SPEAKERS TERMINAL

18. BODENANSCHLUSS
19. PHONO 2 EINGANGSIMPEDANZ WÄHLSCHALTER
20. AUX 1 EINGANGSEBEN KONTROLLE
21. RÜCKSPULEN EINGANGSEBEN KONTROLLE
22. VORVERSTÄRKER UND VERSTÄRKER ANSCHLUß ANSCHLÜSSE
23. LAUTSPRECHER SCHUTZ SICHERUNGSHALTER
24. NETZEINSTELLUNG
25. STROMAUSGANG
26. EINGANGSANSCHLÜSSE
27. BANDMITHÖRANSCHLÜSSE
28. DIN-STECKDOSE
29. MAIN LAUTSPRECHERANSCHLÜSSE
30. REMOTE LAUTSPRECHERANSCHLÜSSE

SCHEMATIC DIAGRAM SCHALTBILD MODEL SU-3600



TONE CONTROL'S CAPACITOR		
C25 ~ C28	(P)	K 0.0015
C23 ~ C24	(P)	K 0.0033
C15~C16 C19~C22	(P)	K 0.022
C11~C12 C17~C18	(P)	K 0.047
C9 ~ C10	(P)	K C.15
C3 ~ C6	(P)	K 0.33
C7 ~ C8	(P)	K 0.47

Notes :

1. $S_{1-1} - S_{1-6}$ Selector switch, now in "PHONO 1" position. PHONO 2 · PHONO 1 · TUNER · AUX 1 · AUX 2
2. $S_{2-1} - S_{2-4}$ Mode switch, now in "STEREO" position. REV · STEREO · L+R · L · R
3. $S_{3-1} - S_{3-2}$ Turn over frequency, now in "125 Hz" position. 125 Hz · 250 Hz · 500 Hz
4. $S_{4-1} - S_{4-2}$ Turn over frequency, now in "2 kHz" position. 2 kHz · 4 kHz · 8 kHz
5. S_{5} Tape monitor switch, now in "SOURCE" position.
6. S_{6} Loudness switch, now in "OFF" position.
7. S_{7} High filter switch, now in "OFF" position.
8. S_{8} Low filter switch, now in "OFF" position.
9. S_{9} Muting switch, now in "OFF" position.
10. S_{10} Main speaker switch, now in "ON" position.
11. S_{11} Remote speaker switch, now in "ON" position.
12. S_{12} Power source switch, now in "ON" position.
13. S_{13} Input impedance selector switch, now in "50 K " position. 30 K · 50 K · 100 K · 200 K
14. S_{14} Voltage selector switch, now in "110 V" position. 110 V · 120 V · 220 V · 240 V
15. DC voltage measurements are taken with tester from chassis.

Bemerkungen :

1. $S_{1-1} - S_{1-6}$ Bandwählerschalter in der "PHONO 1" Stellung. PHONO 2 · PHONO 1 · TUNER · AUX 1 · AUX 2
2. $S_{2-1} - S_{2-4}$ Modulationsschalter in der "STEREO" Stellung. REV · STEREO · L+R · L · R
3. $S_{3-1} - S_{3-2}$ Umkehr Frequenzschalter in der "125 Hz" Stellung. 125 Hz · 250 Hz · 500 Hz
4. $S_{4-1} - S_{4-2}$ Umkehr Frequenzschalter in der "2 kHz" Stellung. 2 kHz · 4 kHz · 8 kHz
5. S_{5} Bandmithorschalter in der "SOURCE" Stellung.
6. S_{6} Lautstärkeschalter in der "OFF" Stellung.
7. S_{7} High Filterschalter in der "OFF" Stellung.
8. S_{8} Low Filterschalter in der "OFF" Stellung.
9. S_{9} Dampfenschalter in der "OFF" Stellung.
10. S_{10} Main Lautsprecherschalter in der "ON" Stellung.
11. S_{11} Remote Lautsprecherschalter in der "ON" Stellung.
12. S_{12} Stromschalter in der "ON" Stellung.
13. S_{13} Eingangsimpedanz wählschalter in der "50 K " Stellung. 30 K · 50 K · 100 K · 200 K
14. S_{14} Netzeinstellungschalter in der "110 V" Stellung, 110 V · 120 V · 220 V · 240 V
15. Gleichspannungsmessungen erfolgen mit Prufgerat in bezug auf Chassispotential.

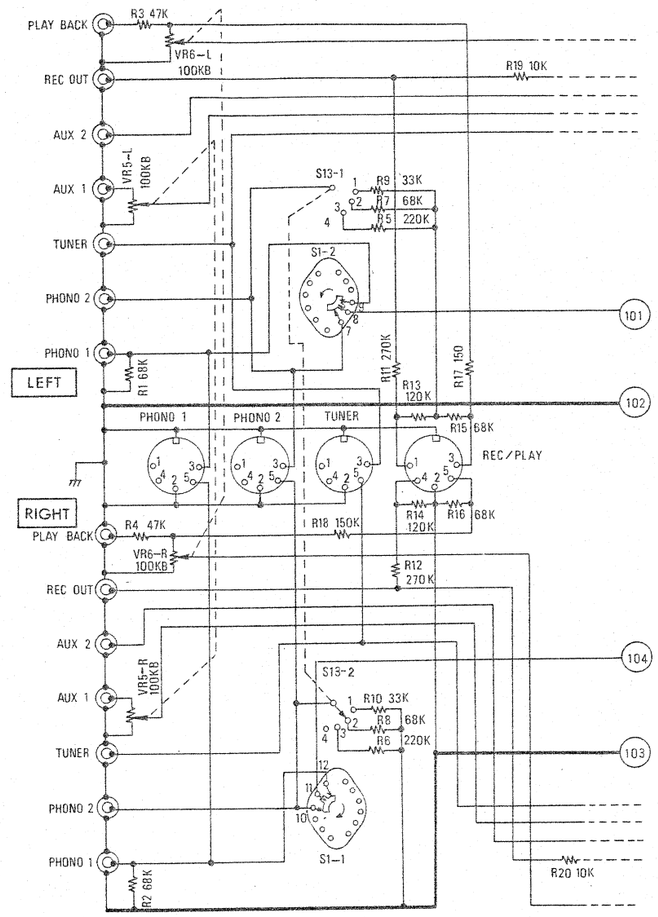
$VR_{1L} \sim VR_{1R}$	BALANCE
$VR_{2L} \sim VR_{2R}$	VOLUME
VR_{3-1L} VR_{3-2R}	BASS
VR_{4-1L} VR_{4-2R}	TREBLE
$VR_{5L} \sim VR_{5R}$	AUX1 LEVEL ADJUST
$VR_{6L} \sim VR_{6R}$	PLAY BACK LEVEL ADJUST

VR3-2R VR3-1R VR3-2L VR3-1L
VR4-2R VR4-1R VR4-2L VR4-1L

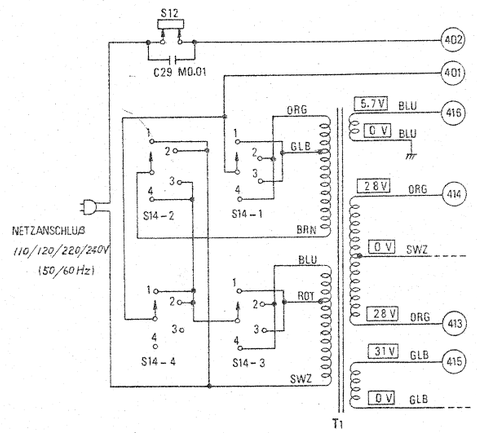
TOLERANCE

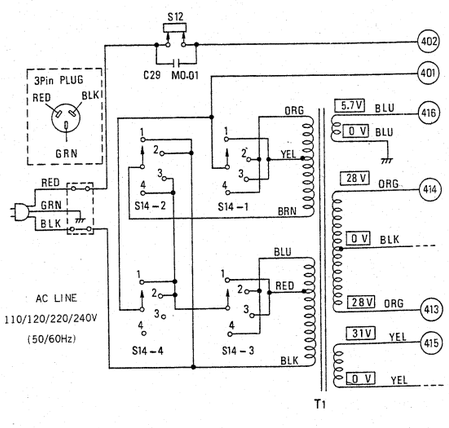
J	±5%	M	±20%
K	±10%	P	+100 0 %

Für Deutsch Schaltbild



Eingangswähler





Stromversorgung

For Australia
AC Power Source Circuit

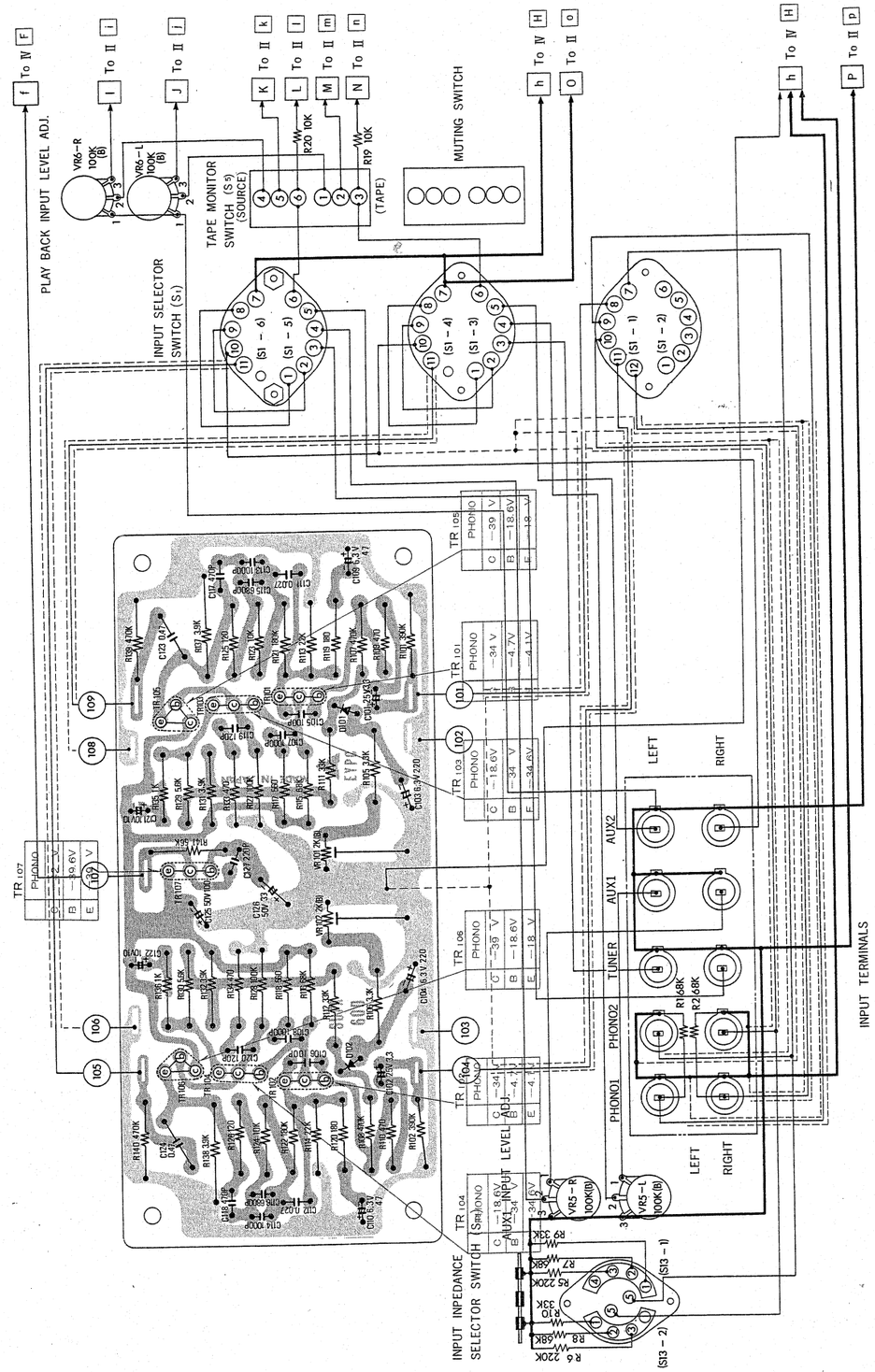
CIRCUIT BOARD WIRING VIEW

MODEL SU-3600

EARTH LINE
ERDLEITER

Entzerrerverstärker

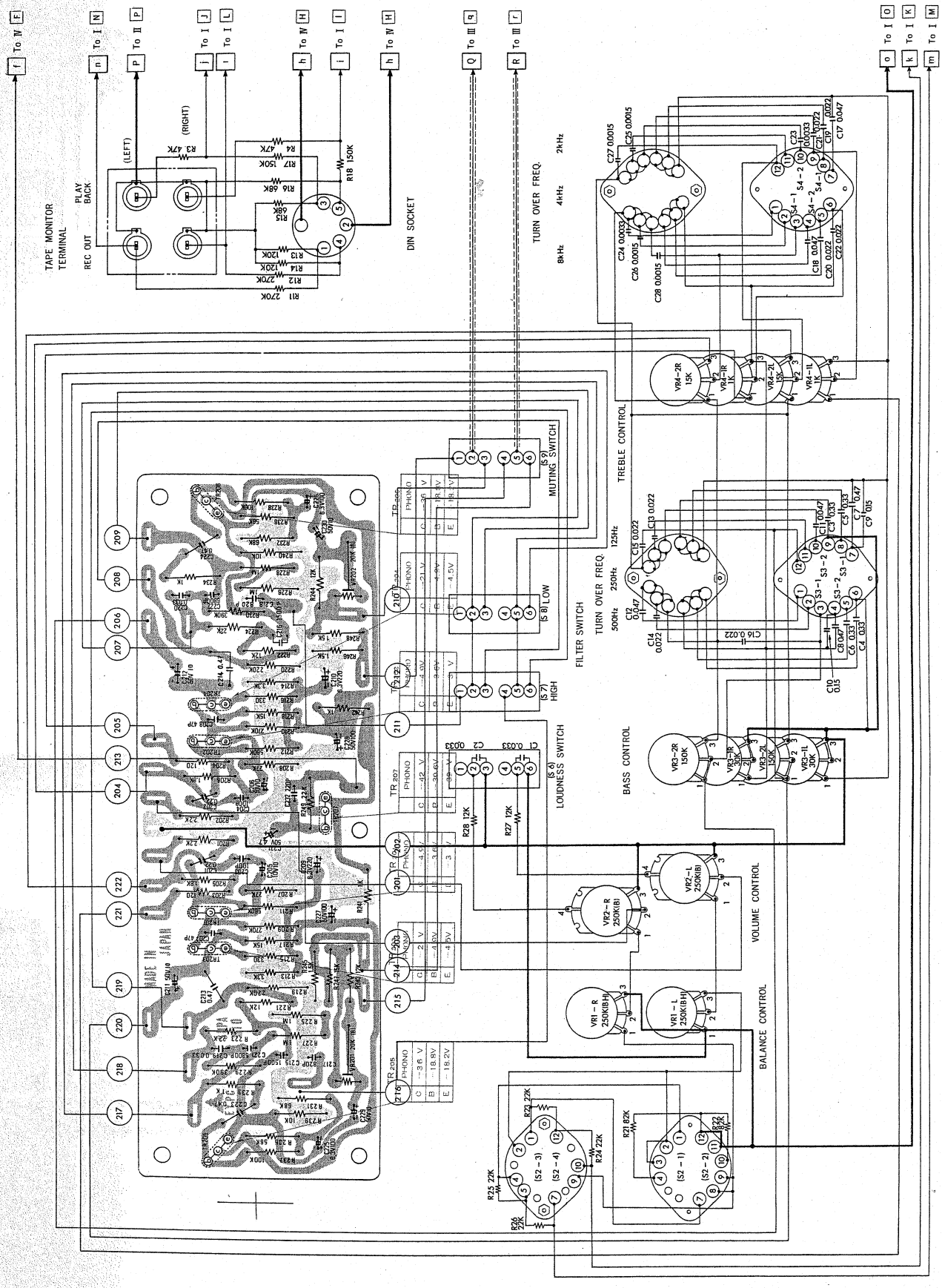
Equalizer Circuit



PRINTPLATTENANSICHT LEITERSEITE MODELL SU-3600

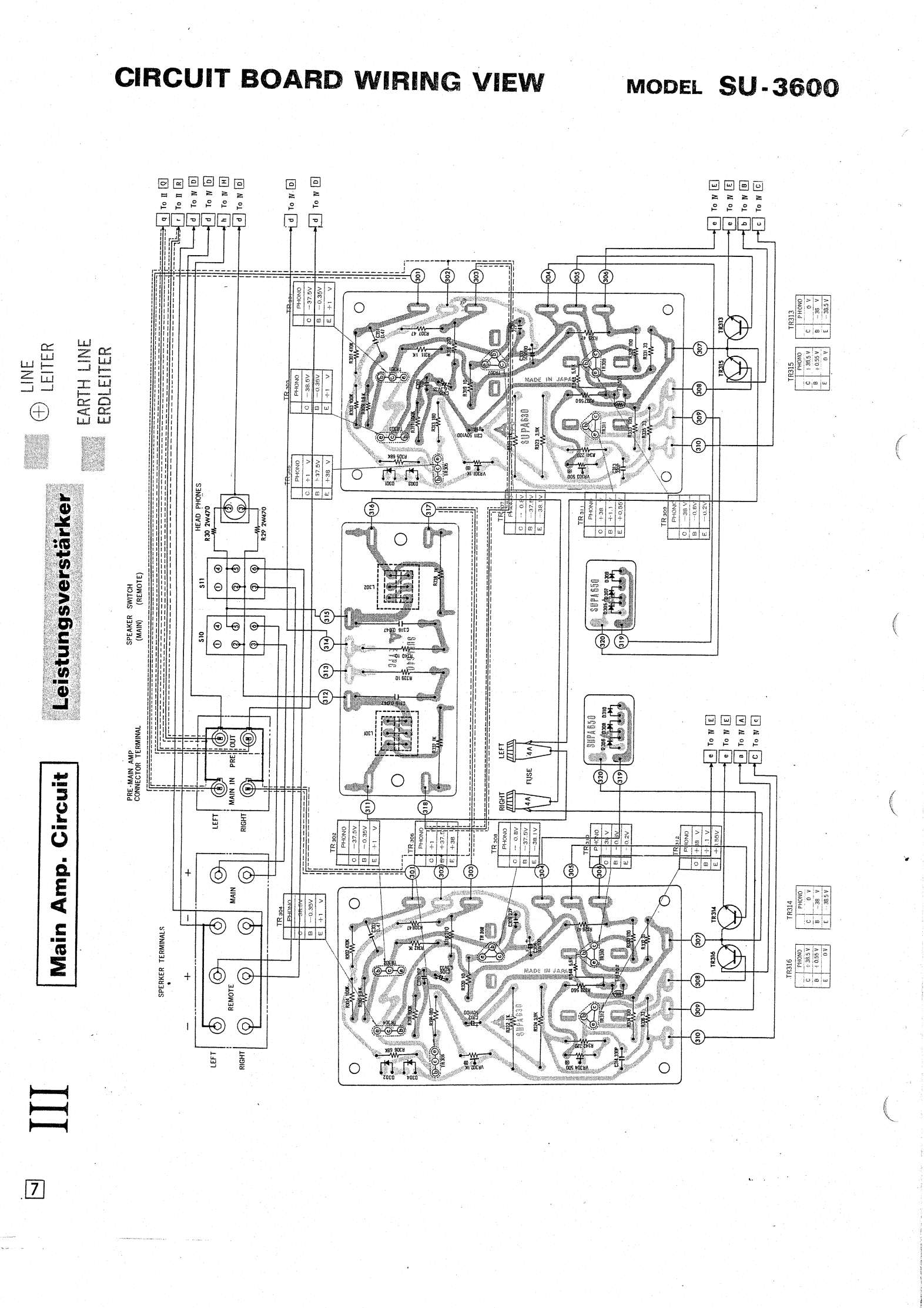
Steuerkreis

Control Circuit



CIRCUIT BOARD WIRING VIEW

MODEL SU-3600

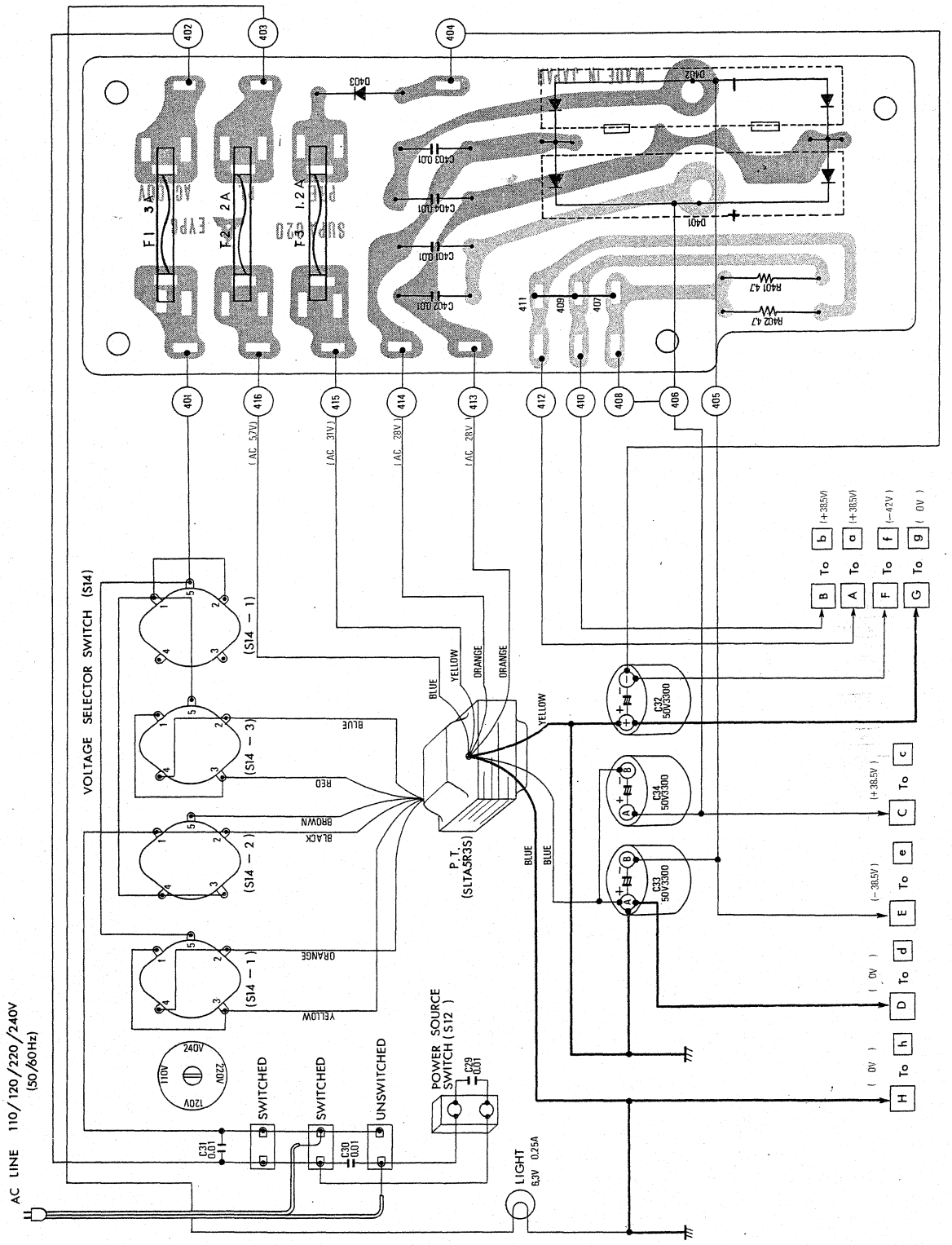


PRINTPLATTENANSICHT LEITERSEITE MODELL SU-3600

Power Supply

Stromversorgung

IV



ALIGNMENT INSTRUCTIONS.....READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Notes :

1. Volume control..... Minimum (ICQ, DC unbalance)
   Maximum (T. C., Equalizer amp.)
2. Speakers switch ..... ON (DC unbalance)
3. Balance control ..... Center
4. Bass, treble control ..... Flat
5. Filters switch..... OFF
6. Muting switch ..... OFF
7. Tape-monitor switch ..... Source
8. Loudness switch .....OFF
9. Input selector switch .....Tuner (T. C.)
   Phono 1 (Equalizer amp.)
   No connection load ..... ICQ, DC unbalance alignment only.
11. ( ) is right channel.
12. Maintain line voltage at rated voltage.
13. DC VTVM (30, 300 mV and 3 V full scale)

	AF OSCILLATOR		INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTION	FRQ. & LEVEL			
			ICQ ALIGNMENT		
1	———	———	Positive side to 407 (407) terminal and negative side to 409 (411) terminal of power supply p.c.b.	VR303 (VR304)	Make adjustments so that the indication on VTVM becomes 47mV.
	* Unsolder lead between 407 and 409, 407 and 411 before alignment, and resolder it after alignment.				
			DC UNBALANCE ALIGNMENT		
2	———	———	Connect VTVM to main or remote speaker terminal.	VR301 (VR302)	Make sure that VTVM become OV.
			TONE CONTROL INPUT SENSITIVITY ALIGNMENT		
3	To tuner terminal of set.	1 kHz 100 mV	Connect VTVM to pre amplifier output terminal.	VR201 (VR202)	Make sure that VTVM becomes 0.8 – 1 V.
			EQUALIZER AMP. BIAS ALIGNMENT		
4	To phono 1 terminal of set.	1 kHz more than 115 mV	Connect scope to recording output terminal.	VR101 (VR102)	Adjust for symmetrical curve. Refer to fig. 1.

ABGLEICHANWEISUNGEN..... VOR DEM ABGLEICH SORGFÄLTIG DURCHLESEN

Anmerkungen :

1. Lautstärkeregler .....Minimumstellung (ICQ, Gleichstrom Unsymmetrie)
   Maximale (Klangregler, Entzerrerverstärker)
2. Lautsprecherschalter..... ON (Gleichstrom Unsymmetrie)
3. Balance-Regler..... Mitte
4. Bass, Treble-Regler ..... Mitte
5. Filterschalter ..... OFF
6. Dämpfschalter..... OFF
7. Bandmithörschalter ..... OFF
8. Klangabstimmung..... OFF
9. Bandwählerschalter .....Tuner (Klangregler)
   Phono 1 (Entzerrerverstärker)
10. Kein schalten lautsprecheranschlüsse.....(ICQ, Gleichstrom Unsymmetrie)
11. ( ) bedeutet rechter Kanal.
12. Halten Sie die kabelspannung auf Nennspannung.
13. Röhrenvoltmeter (30, 300 mV und 3 V Vollausschlag)

	NF-OSZILLATOR		ANZEIGER (ROHRENVOLTMETER)	ANGLEICHUNG	REMERKUNGEN
	SCHALTUNG	FREQ. und EBEN			
			ICQ-ABGLEICH		
1	———	———	Positive Seite an 407 (407) klemme negative Seite an 409 (411) klemme der Stromversorgung gedruckte Schaltplatte.	VR303 (VR304)	Der Abgleich muß so erfolgen, daß der Röhrenvoltmeter 47mV anzeigt.
	* Vor dem Abgleich ist die Verbindung zwischen 407 und 409, 407 und 411 abzulöten und danach wieder anzulöten.				
			GLEICHSTROM UNSYMMETRIE-ABGLEICH		
2	———	———	Röhrenvoltmeter an Main oder Remote Lautsprecher-chwingspule anschließen.	VR301 (VR302)	Der Röhrenvoltmeter muß 0 V anzeigen.
			KLANGREGLER EMPFINDLICHKEIT-ABGLEICH		
3	An tuner-Anschlüsse des Gerät.	1 kHz 100 mV	Röhrenvoltmeter an vorverstärker leistunganschlüsse.	VR201 (VR202)	Der Röhrenvoltmeter muß 0,8 – 1 V anzeigen.
			ENTZERRERVERSTÄRKER VORSPANNUNG-ABGLEICH		
4	An phono 1-Anschlüsse des Gerät.	1 kHz Mehr als 115 mV	Verbinden Sie das Oszilloskop mit den Leistungsanchlüssen.	VR101 (VR102)	Stellen Sie auf symmetrische Kurve ein. Siehe abb. 1.

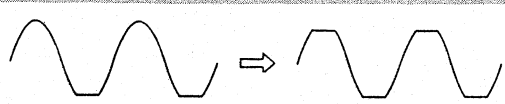
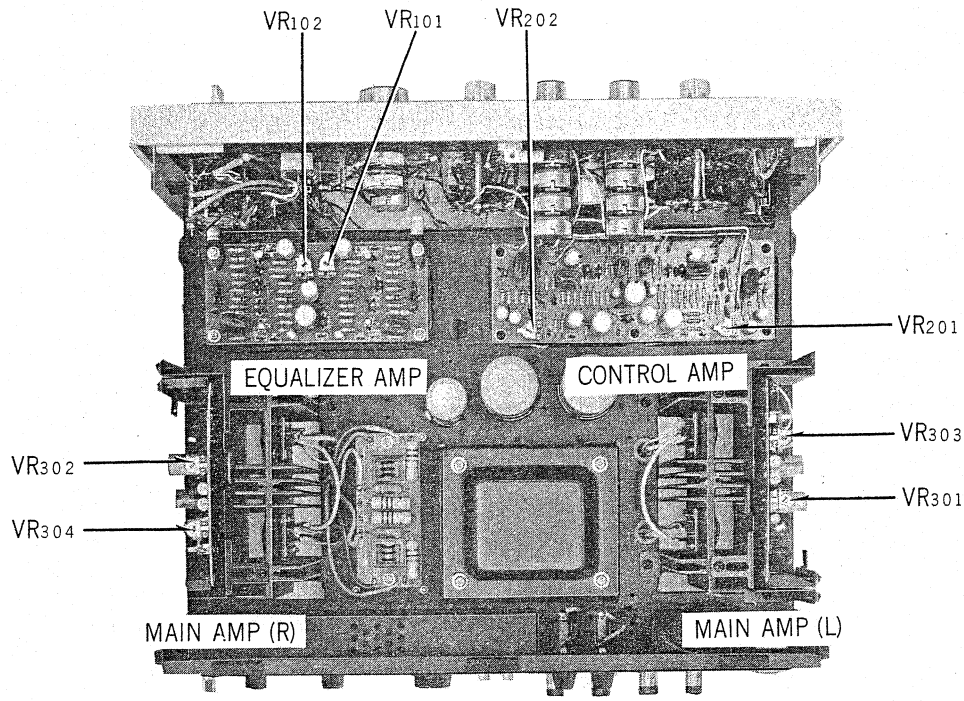


Fig. 1

Abb. 1

LOCATION OF CIRCUIT

ANORDUNG DER LEITUNG



TO REMOVE CABINET AND BOTTOM BOARD

1. Remove four (4) cabinet-mounting screws, nos. 1 – 4, as illustrated in fig. 1.
2. Remove cabinet from chassis.
3. Remove four-teen (14) red bottom board-mounting screws, nos. 1 – 14, as illustrated in fig. 2.
4. To reassemble, reverse the above procedure.

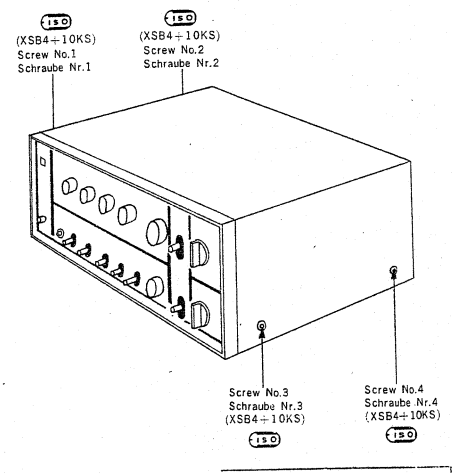


Fig. 1 Abb. 1

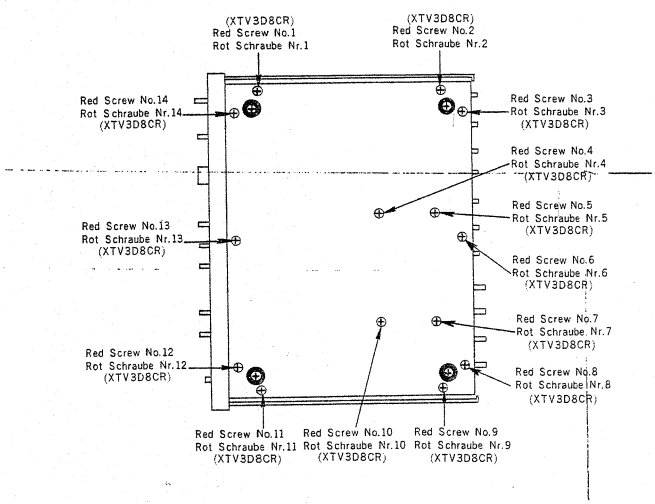
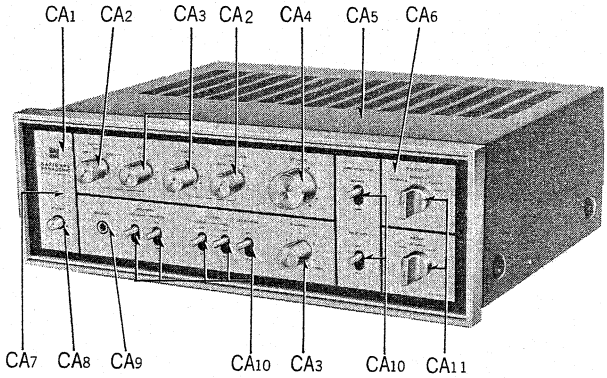


Fig. 2 Abb. 2

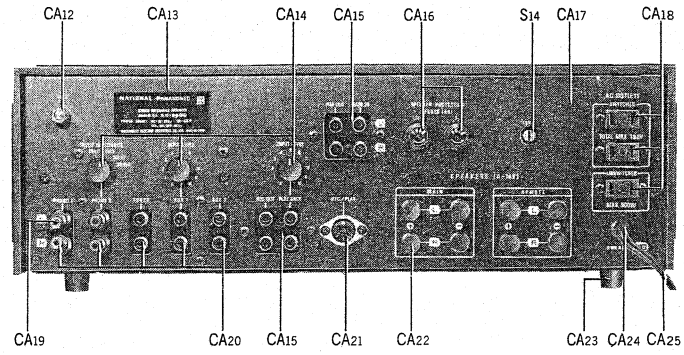
AUSBAUEN DES GEHÄUSE UND BODENPLATTE

1. Vier (4) Gehäuse-Befestigungsschrauben Nr. 1 – 4 entfernen. (Vgl. Abb. 1)
2. Gehäuse vom chassis abnehmen.
3. Vierzehn (14) rote Bodenplatte-Befestigungsschrauben Nr. 1 – 14 entfernen. (Vgl. Abb. 2)
4. Beim Zusammenbau in umgekehrter Reihenfolge vorgehen.

CABINET PARTS LOCATION



ANORDNUNG DER TEILE AM GEHÄUSE

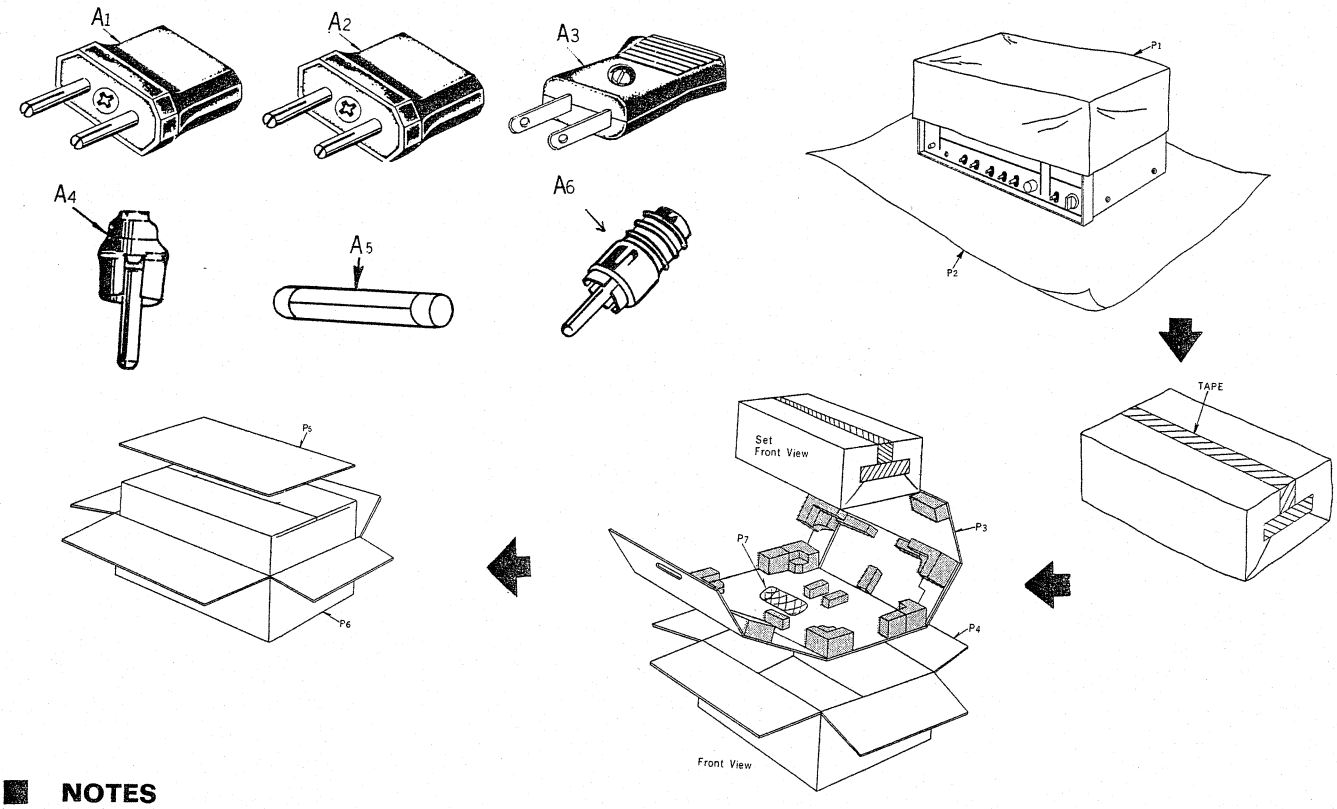


PACKING PARTS LOCATION

ACCESSORIES

ZUBEHÖR

PACKANORDNUNG



NOTES

1. Loosen two (2) front panel-mounting screws, no. 1 and remove four (4) front panel-mounting screws, nos. 2 – 3, as illustrated in fig. 1. Then front panel can be moved in front of chassis.
2. Remove driver p. c. b. cover and cover mounting-screws. Then driver p. c. b. can be moved forward or backward.

BEMERKUNGEN

1. Zwei (2) Vorntafelbefestigungsschrauben Nr. 1 locker machen und vier (4) Vorntafelbefestigungsschrauben Nr. 2 – 3, wie es in abb. 1 gezeigt ist, abziehen. Dann kann man die Vorntafel vor dem Chassis heraussetzen.
2. Das Erreger-Druckkreisbrettdeck und die Deckbefestigungsschrauben abziehen. Dann kann das Erreger-Druckkreisbrett vorn oder hinten abgesetzt werden.

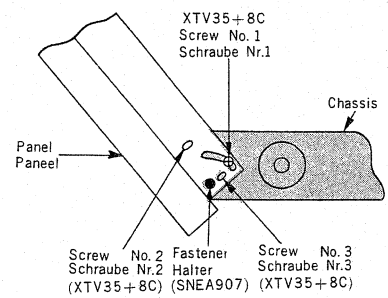


Fig. 1 Abb. 1

REPLACEMENT PARTS LIST
STEREO MODEL SU-3600

ERSATZTEILLISTE
STEREO MODELL SU-3600

NOTES : 1. Part numbers are indicated on most mechanical parts. Please use this number, for parts which have no Ref. No.
2. ISO metric thread screws & parts which employ ISO metric thread screws are indentified by ISO marking (ISO).
3. Ⓝ indicates the New Parts.
4. **A**–**C** rank. **A** rank parts will cover 80% of repair needs.
A+**B** rank parts will cover 95% of repair needs.
C rank parts are less necessary.
5. ( ) Indicates old part No.
6. Please use the "Price" column as desired.
7. These parts are illustrated on prior pages according to their reference numbers.

Bemerkungen:
1. Die meisten mechanischen Teile sind mit Teilnummern versehen. Bitte geben Sie diese Nummern an, sorern die Teile keine Bezugsnummern haben.
2. ISO-Schrauben mit metrischem Gewinde und Teile, rür die ISO-Schrauben mit metrischem Gewinde verwendet werden, sind mit dem ISO-Zeichen (ISO) gekennzei chnet.
3. Ⓝ bedeutet: Neue Teile.
4. Gruppen **A**–**C**: Teile der Gruppe **A** machen 80% des Ersatzteilbedarfes aus.
Teile der Gruppen **A** und **B** machen 95% des Ersatzte-ilbedarfes aus.
Teile der Gruppe **C** werden seltener benötigt.
5. Teilnummern ( ) sind alte Teilnummern.
6. In die Spalte "Preise" können Sie Ihre eigenen Eintragungen machen.
7. Diese Teile sind entsprechend ihren Bezugsnummern auf den vorherge-henden Seiten dargestellt.

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Ref. No. / Bezugs Nr.	Part No. / Teil Nr.	Description / Bezeichnung	Per Set (Pcs.) / Stückzahl pro Gerät	Remarks / Bemerkungen	Price / Preise
TRANSISTORS and DIODES **TRANSISTOREN und DIODEN**					
TR101,102,201 202,205,206	2SA666AⒾ,R,S	Equalizer, Tone Control Amp.	6	Ⓝ **A**	
TR103,104	2SC828AⒻ,R,Q	Equalizer, Amplifier	2	Ⓝ **A**	
TR105,106	2SA550A,R,Q	Equalizer Amplifier	2	**A**	
TR107,207	2SA561,GR	Ripple Filter	2	Ⓝ **A**	
TR203,204	2SA666A,P,Q	Tone Control Amplifier	2	Ⓝ **A**	
TR301,303	2SA666A-1,P,Q~ 2SA666A-7,P,Q	Driver Amplifier	1 pair	Ⓝ **A**	
TR302,304			1 pair		
TR305,306	2SA550A-I,R,Q	Driver Amplifier	2	Ⓝ **A**	
TR307,308, 311,312	2SC960-100,L,M,N	Driver, Main Amplifier	4	Ⓝ **A**	
TR309,310	2SA607-100,L,M,N	Driver Amplifier	2	Ⓝ **A**	
TR313,314, 315,316	2SD218,L,M	Main Amplifier	4	**A**	
D101,102,301, 302,303,304, 305,306,307, 308,309,310	RVDDS-410 (DS-410)	Automatic Operation Control & Thermo Compensation	12	**A**	
D401	RVDSG-5P (SG-5P)	Rectifier	1	**A**	
D402	RVDSG-5N (SG-5N)	Rectifier	1	**A**	
D403	RVDSD-1 (SD-1)	Rectifier	1	**A**	

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COILS and TRANSFORMER **SPULEN und TRANSFORMATOR**					
L301,302	SLEA5001-N	High Character Stabilizer	2	Ⓝ B	
T1	SLTA5R3S	Power Transformer	1	Ⓝ A (ISO)	
THERMISTORS **THERMISTOR**					
TH301,302	RRTA202-2	Thermo Compensation	2	Ⓝ A	
RESISTORS **WIDERSTÄNDE**					
R319,320	ERD14TJ100	10Ω, 1/4W, ±5%, Carbon	2	B	
R331,332, 335,336	ERD14TJ330	33Ω, 1/4W, ±5%, Carbon	4	B	
R307,308	ERD14TJ470	47Ω, 1/4W, ±5%, Carbon	2	B	
R329,330, 333,334	ERD14TJ101	100Ω, 1/4W, ±5%, Carbon	4	B	
R125,126, 203,204	ERD14TJ121	120Ω, 1/4W, ±5%, Carbon	4	B	
R119,120, 313,314	ERD14TJ181	180Ω, 1/4W, ±5%, Carbon	4	B	
R341,342	ERD14TJ221	220Ω, 1/4W, ±5%, Carbon	2	B	
R315,316	ERD14TJ271	270Ω, 1/4W, ±5%, Carbon	2	B	
R215,216	ERD14TJ331	330Ω, 1/4W, ±5%, Carbon	2	B	
R109,110, 133,134	ERD12TJ471	470Ω, 1/4W, ±5%, Carbon	4	B	
R117,118, 327,328	ERD12TJ561	560Ω, 1/4W, ±5%, Carbon	4	B	
R135,136,223, 234,241,242, 311,312	ERD14TJ102	1KΩ, 1/4W, ±5%, Carbon	8	B	
R245,246	ERD14TJ152	1.5KΩ, 1/4W, ±5%, Carbon	2	B	
R205,206, 309,310	ERD14TJ182	1.8KΩ, 1/4W, ±5%, Carbon	4	B	
R201,202	ERD14TJ222	2.2KΩ, 1/4W, ±5%, Carbon	2	B	
R105,106, 213,214	ERD14TJ332	3.3KΩ, 1/4W, ±5%, Carbon	4	B	
R131,132	ERD14TJ392	3.9KΩ, 1/4W, ±5%, Carbon	2	B	
R129,130, 343,344	ERD14TJ562	5.6KΩ, 1/4W, ±5%, Carbon	4	B	
R19,20,123, 124,239,240	ERD14TJ103	10KΩ, 1/4W, ±5%, Carbon	6	B	
R27,28,221, 222,243,244	ERD14TJ123	12KΩ, 1/4W, ±5%, Carbon	6	B	
R217,218, 247,248	ERD14TJ153	15KΩ, 1/4W, ±5%, Carbon	4	B	

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R23,24,25, 26,113,114, 223,224,249	ERD14TJ223	22KΩ, 1/4W, ±5%, Carbon	9	B	
R207,208	ERD14TJ273	27KΩ, 1/4W, ±5%, Carbon	2	B	
R6,9,111,112	ERD14TJ333	33KΩ, 1/4W, ±5%, Carbon	4	B	
R3,4	ERD14TJ473	47KΩ, 1/4W, ±5%, Carbon	2	B	
R141,235,236	ERD14TJ563	56KΩ, 1/4W, ±5%, Carbon	3	B	
R1,2,7,8,15 16,115,116, 231,230, 305,306	ERD14TJ683	68KΩ, 1/4W, ±5%, Carbon	12	B	
R21,22	ERD14TJ823	82KΩ, 1/4W, ±5%, Carbon	2	B	
R127,128,237, 238,303,304, 317,318	ERD14TJ104	100KΩ, 1/4W, ±5%, Carbon	8	B	
R13,14	ERD14TJ124	120KΩ, 1/4W, ±5%, Carbon	2	B	
R17,18	ERD14TJ154	150KΩ, 1/4W, ±5%, Carbon	2	B	
R121,122	ERD14TJ184	180KΩ, 1/4W, ±5%, Carbon	2	B	
R5,10,219, 220	ERD14TJ224	220KΩ, 1/4W, ±5%, Carbon	4	B	
R11,12,209, 210	ERD14TJ274	270KΩ, 1/4W, ±5%, Carbon	4	B	
R101,102, 229,230	ERD14TJ394	390KΩ, 1/4W, ±5%, Carbon	4	B	
R107,108,139, 140,301,302	ERD14TJ474	470KΩ, 1/4W, ±5%, Carbon	6	B	
R211,212	ERD14TJ564	560KΩ, 1/4W, ±5%, Carbon	2	B	
R225,226, 227,228	ERD14TJ105	1MΩ, 1/4W, ±5%, Carbon	4	B	
R325,326	ERD14TCJ470	47Ω, 1/4W, ±5%, Carbon	2	Ⓝ B	
R401,402	ERD12TJ4R7	4.7Ω, 1/2W, ±5%, Carbon	2	B	
R137,138	ERD12TJ392	3.9KΩ, 1/2W, ±5%, Carbon	2	B	
R239,340	ERD1PZK100	10Ω, 1W, ±10%, Carbon	2	B	
R321,322, 337,338	ERD1PZK102	1KΩ, 1W, ±10%, Carbon	4	B	
R29,30	ERM2P471	470Ω, 2W, ±5%, Wire	2	C	
R323,324	ERDIPZK392	3.9KΩ, 1W,± 10%, Carbon	2	B	
VARIABLE RESISTORS EINSTELLWIDERSTÄNDE					
VR1	EVF52A430252	Balance Control 250KΩ(BH)	1	Ⓝ A	
VR2	EVG61A428BF5	Volume Control 250KΩ (B)	1	Ⓝ A	
VR3	EVB96A430730	Bass Control 150KΩ, 30KΩ	1	Ⓝ A	
VR4	EVB96A430501	Treble Control 15KΩ, 1KΩ	1	Ⓝ A	
VR5,6	EVKCIAL15B15	Aux. I, Play Back Level Adjustment 100KΩ (B)	2	Ⓝ A	
VR101,102	EVLSOAA00B23	TR101,102 Bias Adj. 2KΩ (B)	2	A	

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VR201,202	EVLS3AA00B24	Pre-Output Adj. 20KΩ (B)	2	Ⓝ A	
VR301,302,	EVLSOAA00B13	DC Balance Adj. 1KΩ (B)	2	A	
VR303,304	EVLSOAA00B52	ICQ Adjustment 5KΩ (B)	2	A	
CAPACITORS KONDENSATOREN					
C309,310	ECCD5100K	10mmf, 500WV, ±10%, Ceramic	2	C	
C307,308	ECCD5220K	22mmf, 500WV, ±10%, Ceramic	2	C	
C207,208	ECCD05470K	47mmf, 50WV, ±10%, Ceramic	2	C	
C105,106, 203,204	ECCD05101K	100mmf, 50WV, ±10%, Ceramic	4	C	
C119,120	ECCD05121K	120mmf, 50WV, ±10%, Ceramic	2	C	
C127,232	ECCD05221K	220mmf, 50WV, ±10%, Ceramic	2	C	
C313,314	ECKD5331KF	330mmf, 500WV, ±10%, Ceramic	2	C	
C117,118	ECKD5471K	470mmf, 500WV, ±10%, Ceramic	2	C	
C217,218	ECLD5821K	820mmf, 500WV, ±10%, Ceramic	2	C	
C107,108	ECKE05102MY	0.001mfd, 50WV, ±20%, Ceramic	2	C	
C401,402, 403,404	ECKD5103P	0.01mfd, 500WV, $^{+100}_{-0}$% Ceramic	4	C	
C25,26,27, 28,215,216	ECQG05152KZ-N	0.0015mfd, 50WV, ±10%, Polyester	6	C	
C23,24	ECQG05332KZ-N	0.0033mfd, 50WV, ±10%, Polyester	2	C	
C221,222	ECQG05682KZ-N	0.0068mfd, 50WV, ±10%, Polyester	2	C	
C113,114	ECQG05102JZ-N	0.001mfd, 50WV, ±5%, Polyester	2	C	
C115,116	ECQG05682JZ-N	0.0068mfd, 50WV, ±5%, Polyester	2	C	
C13,14,15,16, 19,20,21,22	ECQG05223KZ-N	0.022mfd, 50WV, ±10%, Polyester	8	C	
C11,12,17,18	ECQG05473KZ-N	0.047mfd, 50WV, ±10%, Polyester	4	C	
C1,2,219,220	ECQG05333KZ-N	0.033mfd, 50WV, ±10%, Polyester	4	C	
C111,112	ECQG05273JZ-N	0.027mfd, 50WV, ±5%, Polyester	2	C	
C9,10	ECQG05154KZ-N	0.15mfd, 50WV, ±10%, Polyester	2	C	
C201,202	ECQG05224KZ-N	0.22mfd, 50WV, ±10%, Polyester	2	C	
C3,4,5,6	ECQG05334KZ-N	0.33mfd, 50WV, ±10%, Polyester	4	C	
C7,8,123,124, 213,214,223, 224	ECQG05474KZ-N	0.47mfd, 50WV, ±10%, Polyester	8	C	
C315,316	ECQM1473M	0.047mfd, 125WV, ±20%, Polyester	2	C	
C32	ECEL50R1000R	1000mfd, 50WV, Electrolytic	1	Ⓝ B	
C33,34	ECEM50R3300R	3300mfd, 50WV, Electrolytic	2	Ⓝ B	
C305,306	ECEA6V33	33mfd, 6.3WV, Electrolytic	2	B	

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C109,110	ECEA6V47	47mfd, 6.3WV, Electrolytic	2	B	
C225,226	ECEA6V100	100mfd, 6.3WV, Electrolytic	2	B	
C103,104, 209,210	ECEA6V220	220mfd, 6.3WV, Electrolytic	4	B	
C121,122, 205,206	ECEA10V10	10mfd, 10WV, Electrolytic	4	B	
C211,212, 229,230	ECEA50V10	10mfd, 50WV, Electrolytic	4	B	
C126	ECEA50V33	33mfd, 50WV, Electrolytic	1	B	
C231	ECEA50V47	47mfd, 50WV, Electrolytic	1	B	
C125,227, 228,303, 304,311, 312	ECEA50V100	100mfd, 50WV, Electrolytic	7	B	
C101,102	ECSZ25EG3R3	3.3mfd, 25WV, Electrolytic	2	B	
C29,30,31	ECNU4A103M	0.01mfd, 400WV, ±20%, Paper	3	C	
		CABINET **GEHÄUSE**			
CA1	SGBA30	Badge	1	Ⓝ C	
CA2	SBNA28	Knob, Turn-Over	2	Ⓝ A	
CA3	SBNA29	Knob, Bass, Treble, Balance	3	Ⓝ A	
CA4	SBNA26	Knob, Volume	1	Ⓝ A	
CA5	SKAA280	Cabinet	1	Ⓝ C	
	SKAA300	Holzgehäuse <Für Deutsch>	1	Ⓝ B	
CA6	SYEA10	Panel Complete	1	Ⓝ B	
CA7	SGLA5	Panel Light	1	C	
CA8	SBCA21	Button, Power Switch	1	Ⓝ A	
CA9	SJJA7S	Jack, Head Phones	1	Ⓝ B ISO	
CA10	SBNA31S	Knob, Speakers, Filters, Loudness, Tape-Monitor, Muting	7	Ⓝ A ISO	
CA11	SBNA27	Knob, Selector, Mode	2	Ⓝ A	
CA12	SNEA404	Nut, Ground Terminal	1	C	
CA13	SGTA590	Name Plate	1	Ⓝ C	
CA14	SBNA34	Knob, Input Level, Input Impedance	3	Ⓝ A	
CA15	SJFA3405	Terminal, Tape-Monitor Pre-Main Connector	2	C	
		Terminal, Tape Pre-Main AUX1 AUX2 <Für Deutsch>	3		
	SJPA9201	Short Pin	2	B	
CA16	SJFA101	Holder, Fuse	2	C	
CA17	SMNA117	Rear Panel	1	Ⓝ B	
	SMNA114-1	Rear Panel <For Australia>			

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CA17	SMNA120	Rückpaneel <Für Deutsch>	1	Ⓝ B	
CA18	SJSA9202	AC Outlet <Nothing, for Australia Nein, für Deutsch>	3	B	
CA19	SJP9103	Short Pin Plug	2	B	
CA20	SJFA3004	Terminal, Input	1	Ⓝ C	
	SJFA3201	Terminal, <Für Deutsch>	3	Ⓝ C	
	RJS31-1	Diodenbuchse, Eingangs <FürDeutsch>	3	B	
CA21	SJS13-1	Din Socket	1	B	
CA22	SJEA3	Terminal, Speaker	8	Ⓝ C	
	SMXA31	Spacer, Speaker [Gray]	4	Ⓝ C	
	SMXA31-1	Spacer, Speaker [Red]	4	Ⓝ C	
CA23	SHRA302	Stand, Cabinet	4	Ⓝ C	
CA24	RHR111	Bushing, AC Cord	1	C	
	RHR110	Bushing, AC Cord <For Australia>			
CA25	RJA30	AC Cord, Power Source	1	B	
	RJA39	AC Netzkabel <Für Deutsch>			
	SJA9	AC Cord, <For Australia>			
	SKUA140	Bottom Board	1	Ⓝ C	
	XSB4+10KS	Screw, Cabinet M'tg.	4	B ISO	
	XTV3D8CR	Red Screw, Bottom Board M'tg.	14	C	
		CHASSIS CHASSIS			
	RJV201	Socket, Light	1	C	
	SJV1201S	Socket, Transistor	4	C ISO	
	XAM35T	Light, 6.3V 0.25A	1	A	
	SNEA907	Fastener	2	Ⓝ B	
	XBASIA4001	Fuse, 4A SP. Protector	2	Ⓝ A	
	XBAIE30NR5	Fuse, 3A	1	A	
	XBAIE20NR5	Fuse, 2A	1	A	
	XBAIE10NR5	Fuse, 1A	1	A	
	RJF107-1	Terminal, Fuse	6	C	
	QJT2007	Terminal, AC Cord <For Australia>	1	C	

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SWITCHES SCHALTER					
S1-1～S1-6	SSRA3	Program Source Selector Switch	1	Ⓝ B	
S2-1～S2-4	SSRA4	Mode Switch	1	Ⓝ B	
S3-1～S3-2 S4-1～S4-2	SSRA2	Turn-Over Frequency Switch	2	Ⓝ B	
S5～S9	SSLAIS	Tape-Monitor, Loudness, High Low Filter, Muting Switch	5	Ⓝ B ISO	
S10,S11	SSLA2S	Main & Remote Speaker Switch	2	Ⓝ B ISO	
S12	SSHA5S	Power Source Switch	1	Ⓝ A ISO	
S13	ESRE124L15Z	Input Inpedance Selector Switch	1	Ⓝ B	
S14-1～S14-4	SSRA7S	Power Source Voltage Selector Switch	1	Ⓝ B ISO	
ACCESSORIES ZUBEHÖR					
A1	RJP74	Plug 〈Nein für Deutsch〉 〈Nothing for Australia〉	1	B	
A2	RJP75	Plug 〈Nein für Deutsch〉 〈Nothing for Australia〉	1	B	
A3	SJP15S	Plug 〈Nein für Deutsch〉 〈Nothing for Australia〉	1	B ISO	
A4	RJP5	Pin Plug	8	B	
A5	XBASIA4001	Fuse, 4A	2	Ⓝ A	
A6	SJP9103	Short Pin Plug	2	B	
PACKING MATERIALS VERPACKUNG					
P1	SPPA20	Soft Cover	1	C	
P2	SPHA6007-1	Polyethylene Sheet	1	C	
P3	SPNA108	Inside Carton	1	Ⓝ C	
P4	SPNA114	Carton Box (Inner)	1	Ⓝ C	
P5	SPNA109	Top Pad	1	Ⓝ C	
P6	SPGA63	Carton Box (Outer)	1	Ⓝ C	
P7	SQFA60	Printed Matter	1	Ⓝ B	
	SQFA62	Druckschriften 〈Für Deutsch〉			
	SQFA65	Printed Matter 〈For Australia〉			