

# WEGA HI-FI-STEREO-VERSTÄRKER INTEGRATED STEREO AMPLIFIER

# V120

## Kundendienstanleitung Service Manual

## 1/81



### INHALT

### CONTENTS

Seite/Page

Technische Daten	1	<i>Specifications</i>
Teil 1 Blockschaltbild	2	<i>Section 1 Block diagram</i>
Teil 2 Demontage	3	<i>Section 2 Disassembly</i>
Teil 3 Abgleich	4-5	<i>Section 3 Adjustments</i>
Teil 4 Schaltbilder	6-10	<i>Section 4 Diagrams</i>
Halbleiteranschlüsse	6	<i>Semiconductors</i>
Teil 5 Explosionsdarstellungen	11-12	<i>Section 5 Exploded views</i>
Teil 6 Ersatzteilliste	14-15	<i>Section 6 Spare Parts list</i>

### TECHNISCHE DATEN

### SPECIFICATIONS

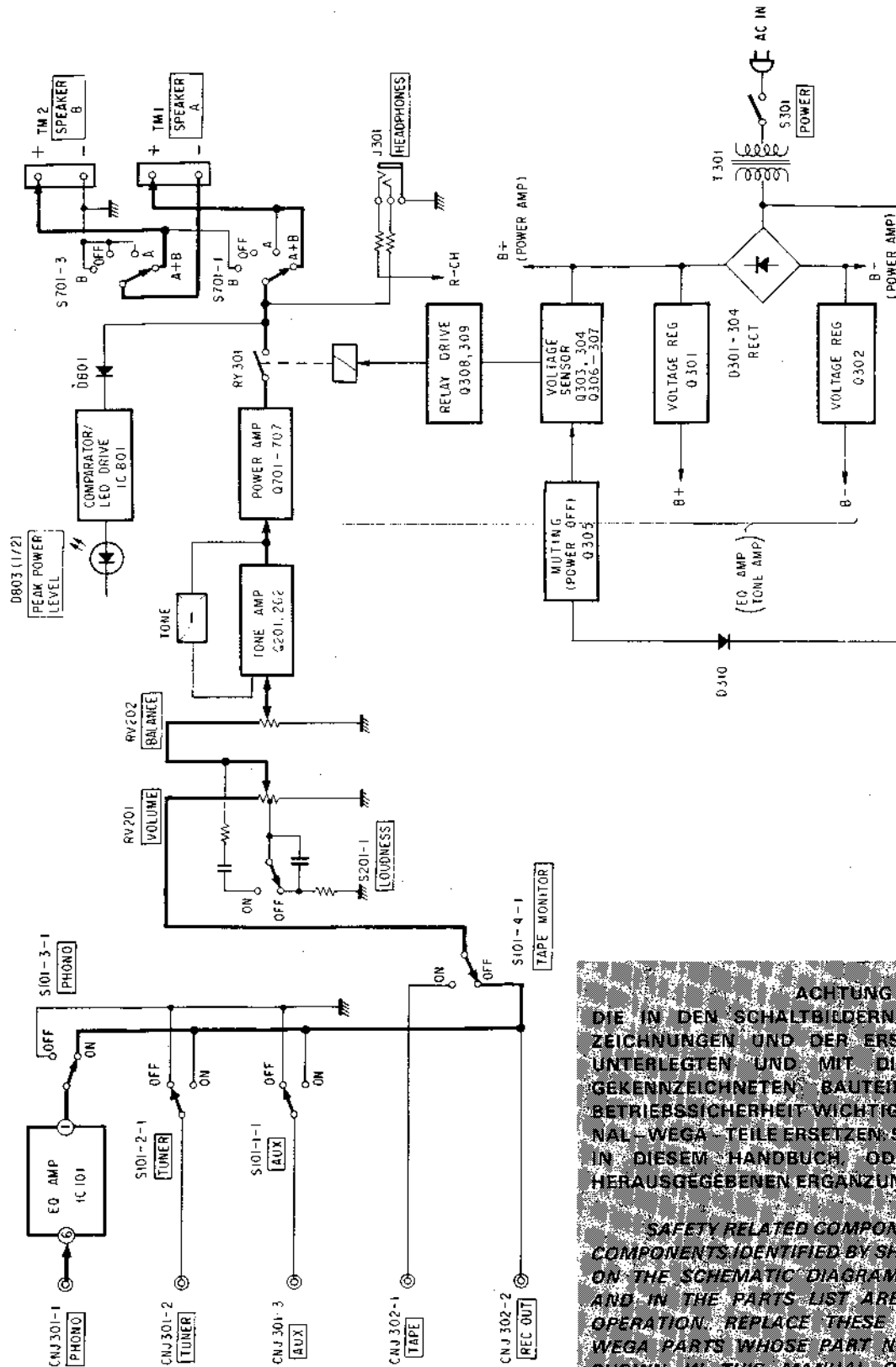
Stromversorgung	220 V / 50 Hz	<i>Power Requirements</i>
Leistungsaufnahme	190 W	<i>Power Consumption</i>
Abmessungen (B x H x T)	430 x 80 x 295 mm	<i>Dimensions (W x H x D)</i>
Gewicht	5,8 kg	<i>Weight</i>
Sinusleistung	2 x 30 W (8 Ω)	<i>Continuous Average Output</i>
Musikleistung	2 x 50 W (8 Ω)	<i>Dynamic Power Output</i>
Frequenzgang	20 Hz - 20 kHz (30 W, 0.05 %)	<i>Frequency Response</i>
Klirrfaktor bei Nenn-Sinusleistung 1 kHz Eingänge	0.05 %	<i>Total Harmonic Distortion at rated output 1 kHz Inputs</i>


	Empfindlichkeit <i>Sensitivity</i>	Impedanz <i>Impedance</i>	Signal-Rauschabstand <i>S/N Ratio</i>
PHONO	2.5 mV	50 kΩ	80 dB (A)
TUNER TAPE	140 mV	50 kΩ	100 dB (A)


Ausgangsimpedanz Lautsprecher	8-16 Ω	<i>Output Impedance Speakers</i>
Regelumfang Klangregler		<i>Tone Controls</i>
Bässe	± 10 dB (70 Hz)	<i>Bass</i>
Höhen	± 10 dB (30 kHz)	<i>Treble</i>

TEIL 1  
1-1. BLOCKSCHALTBILD

SECTION 1  
1-1. BLOCK DIAGRAM



**ACHTUNG!**  
DIE IN DEN SCHALTBILDERN, DEN EXPLOSIONSZEICHNUNGEN UND DER ERSATZTEILLISTE GRAU UNTERLEGTE UND MIT DIESEM ZEICHEN  BEKENNZEICHNETEN BAUTEILE SIND FÜR DIE BETRIEBS SICHERHEIT WICHTIG. NUR DURCH ORIGINAL WEGA TEILE ERSETZEN. SACHNUMMERN SIND IN DIESEM HANDBUCH, ODER IN VON WEGA HERAUSGEGEBENEN ERGÄNZUNGEN.

**SAFETY RELATED COMPONENT WARNING!**  
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH WEGA PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY WEGA.

**TEIL 2  
DEMONTAGE**

**SECTION 2  
DISASSEMBLY**

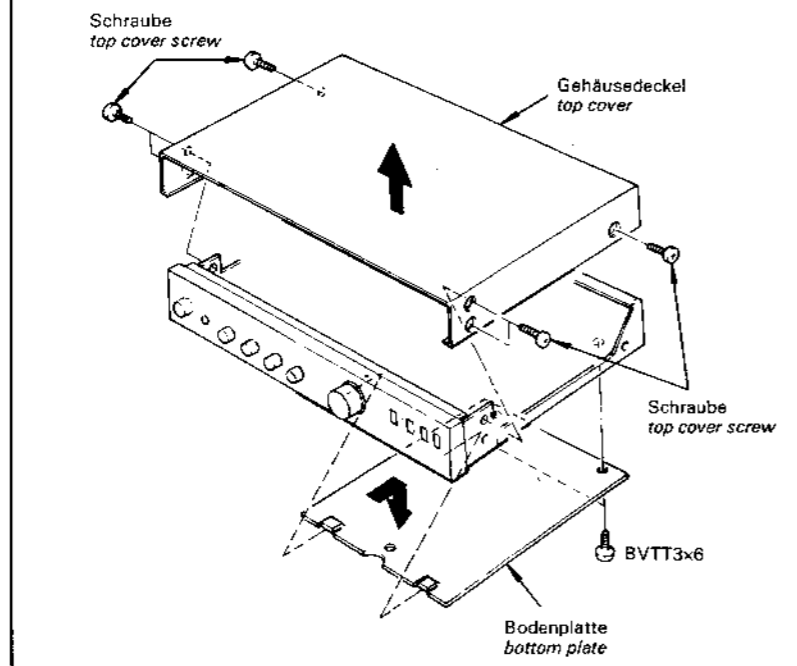
**TEIL 3  
ABGLEICH**

**SECTION 3  
ADJUSTMENTS**

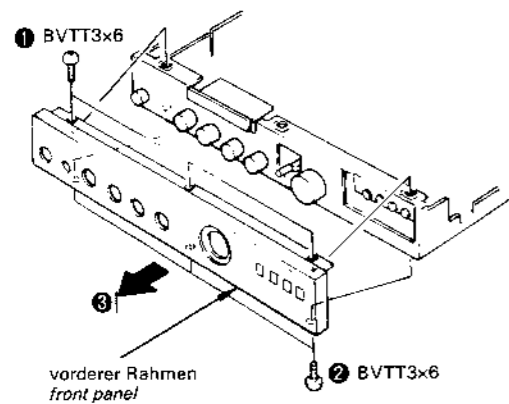
Anm.: Das Ausbauen der einzelnen Baugruppen und Bauteile in der angegebenen Reihenfolge durchführen.

Note: Follow the disassembly procedure in the numerical order given.

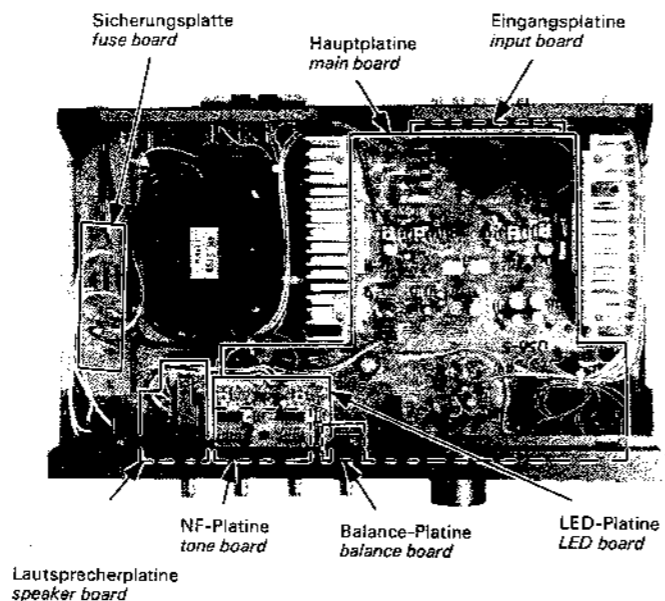
**AUSBAU DES GEHÄUSEDECKELS UND DER BODENPLATTE  
TOP COVER AND BOTTOM PLATE REMOVAL**



**AUSBAU DES VORDEREN RAHMENS  
FRONT PANEL REMOVAL**



Nach Ausbau der Bauteile sind die einzelnen Platinen überprüfbar  
With the set disassembled as shown below, each circuit board can be checked



Anmerkung:

1. Den Ruhestrom- und Nullspannungsabgleich erst einige Minuten nach Einschalten des Netzes durchführen.
2. Zunächst den Ruhestromabgleich durchführen.
3. Die beiden Einstellungen mehrmals wiederholen.
4. Nach Austausch der Leistungstransistoren jeweils die beiden Einstellungen durchführen.

Note:

1. DC bias and DC balance adjustments should be made several minutes after the POWER switch is turned on (POWER ON).
2. Perform DC bias adjustment first.
3. Repeat DC bias and DC balance adjustments two or three times.
4. After replacing the power transistors, DC bias and DC balance adjustments should be made.

**Ruhestromabgleich  
(Ohne Signal)**

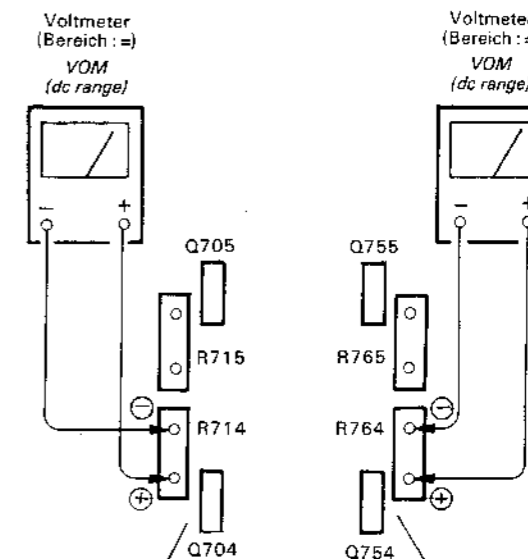
**DC Bias Adjustment  
(With no signal input)**

- LK -  
Mit RV702 6 mV einstellen.

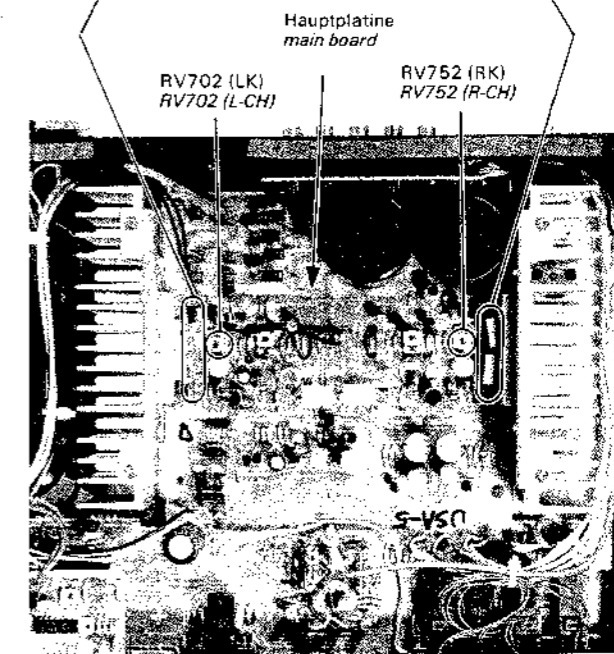
- L-CH -  
Adjust RV702 for 6 mV dc reading on VOM.

- RK -  
Mit RV752 6 mV einstellen.

- R-CH -  
Adjust RV752 for 6 mV dc reading on VOM.



Einstellort:  
Adjustment Location:



**TEIL 3  
ABGLEICH**

**SECTION 3  
ADJUSTMENTS**

**Anmerkung :**

1. Den Ruhestrom- und Nullspannungsabgleich erst einige Minuten nach Einschalten des Netzes durchführen.
2. Zunächst den Ruhestromabgleich durchführen.
3. Die beiden Einstellungen mehrmals wiederholen.
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**Note :**

1. DC bias and DC balance adjustments should be made several minutes after the POWER switch is turned on (POWER ON).
2. Perform DC bias adjustment first.
3. Repeat DC bias and DC balance adjustments two or three times.
4. After replacing the power transistors, DC bias and DC balance adjustments should be made.

**Ruhestromabgleich**  
(Ohne Signal)

**DC Bias Adjustment**  
(With no signal input)

- LK -  
Mit RV702 6 mV einstellen.

- L-CH -  
Adjust RV702 for 6 mV dc reading on VOM.

- RK -  
Mit RV752 6 mV einstellen.

- R-CH -  
Adjust RV752 for 6 mV dc reading on VOM.

Voltmeter (Bereich : =)  
VOM (dc range)

Voltmeter (Bereich : =)  
VOM (dc range)

Einstellort:  
Adjustment Location :

Hauptplatine  
main board

RV702 (LK)  
RV702 (L-CH)

RV752 (RK)  
RV752 (R-CH)

**Nullspannungsabgleich**  
(Ohne Signal)

**DC Balance Adjustment**  
(With no signal input)

- LK -  
Mit RV701 0 V einstellen.

- L-CH -  
Adjust RV701 for 0 V dc reading on VOM.

- RK -  
Mit RV751 0 V einstellen.

- R-CH -  
Adjust RV751 for 0 V dc reading on VOM.

Voltmeter (Bereich : =)  
VOM (dc range)

Voltmeter (Bereich : =)  
VOM (dc range)

Lautsprecher-  
anschlüsse  
SPEAKER terminals

L R

Einstellort:  
Adjustment Location :

RV701 (LK)  
RV701 (L-CH)

Hauptplatine  
main board

RV751 (RK)  
RV751 (R-CH)

**LED-Abgleich**  
**Indicator Sensitivity Adjustment**

**Abgleich :** **Procedure :**

NF-Generator  
afc osc

Abschwächer  
attenuator

100 k $\Omega$

Gerät  
set

8  $\Omega$   
(30 W)

Röhren-  
voltmeter  
VTVM

1 kHz

Eingang/Input  
(Tuner)

Ausgang/Output  
(Lautsprecher/  
speaker)

1. Den Lautstärkereger auf Rechtsanschlag drehen.
2. Den Eingangspegel auf 30 W (15,5 V) einstellen.
3. RV801 (LK) und RV851 (RK) so abgleichen, daß alle Stellen der 30 W Leistungs-LED aufleuchten.

1. Turn the VOLUME control fully clockwise.
2. Adjust the input level of the set for 30 W (15.5 V) reading on the VTVM.
3. Adjust RV801 (L-CH) and RV851 (R-CH) so that the PEAK POWER LEVEL indicators of 30 W and less light.

0	0.01	0.1	1	6	30W/8 $\Omega$
---	------	-----	---	---	----------------

Einstellort:  
Adjustment Location :

RV801 (LK)  
RV801 (L-CH)

LED-Platine  
LED board

RV851 (RK)  
RV851 (R-CH)

TEIL 4  
SCHALTBILDER

SECTION 4  
DIAGRAMS

4-1. BESTÜCKUNGSPLAN

	A	B	C	D	E	F	G	H
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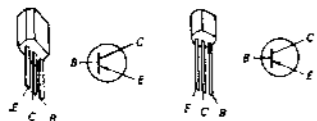
● Halbleiteranschlüsse

Im Reparaturfall folgende Halbleiter benutzen, außer den in Klammern ( ) angegebenen.

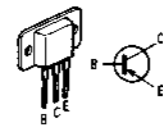
● Replacement Semiconductors

For replacement, use semiconductors except in ( ).

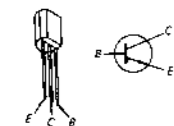
1  
**Q201, 251: 2SA1027R (2SA750E)**  
**Q303: 2SA1027R (2SA733P)**



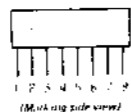
**Q707, 757: 2SB616 (2SB616R)**



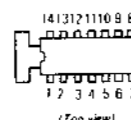
2  
**Q202, 252: 2SC1364 (2SC1222E)**  
**Q304-308: 2SC1364 (2SC945P)**



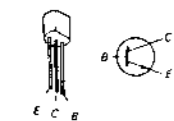
**IC101, 151: HA1457**



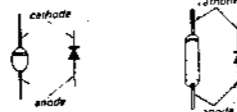
**IC801, 851: LB1416**



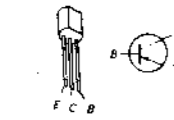
3  
**Q301, 309: 2SC1475 (2SC2002L)**



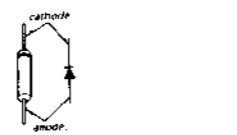
**D301-304: U05G (30D2)**



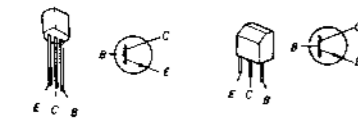
4  
**Q302: 2SA684 (2SA953L)**  
**Q701, 751: 2SA684 (2SA640E)**  
**Q702, 752: 2SA684 (2SA640E)**



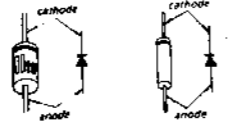
**D305, 311: 10E2 (1N4002)**  
**D312: 10E2 (1N4002)**  
**D308, 309: 1S1555 (1S553)**  
**D310: 1SS54**  
**D801, 851: 1T22AM (1S188)**  
**D802, 852: 1T22AM (1S188)**



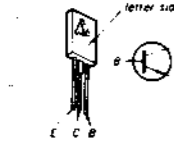
5  
**Q703, 753: 2SC1811 (2SC1940L)**



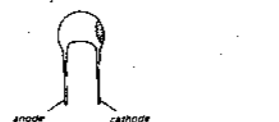
**D306, 307: EQ801-22 (RD22E8)**



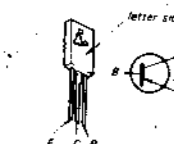
6  
**Q704, 754: 2SD414 (2SD414R)**



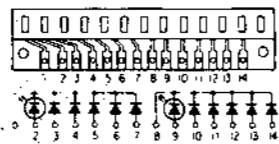
**D702, 752: VD1220**  
**D703, 753: VD1120**



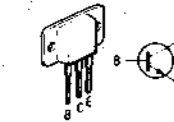
7  
**Q705, 755: 2SB548 (2SB548R)**



**D803: SEL8805**



8  
**Q706, 756: 2SD586 (2SD586R)**

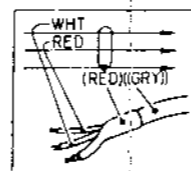


Bemerkung:

- Farbkodierung der Kabelenden
- ○ : Leiterbild auf Bestückungsseite
- Signalweg
- : L-Kanal
- : R-Kanal
- : L-Kanal oder R-Kanal
- [ ] : +U<sub>B</sub> Versorgungsspannung
- [ ] : -U<sub>B</sub> Versorgungsspannung

Note:

- Color code of sleeving over the end of the jacket

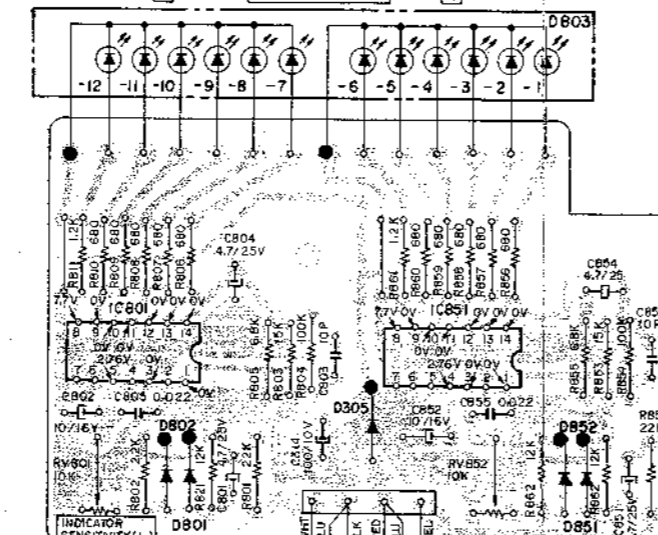


- ○ : parts extracted from the component side

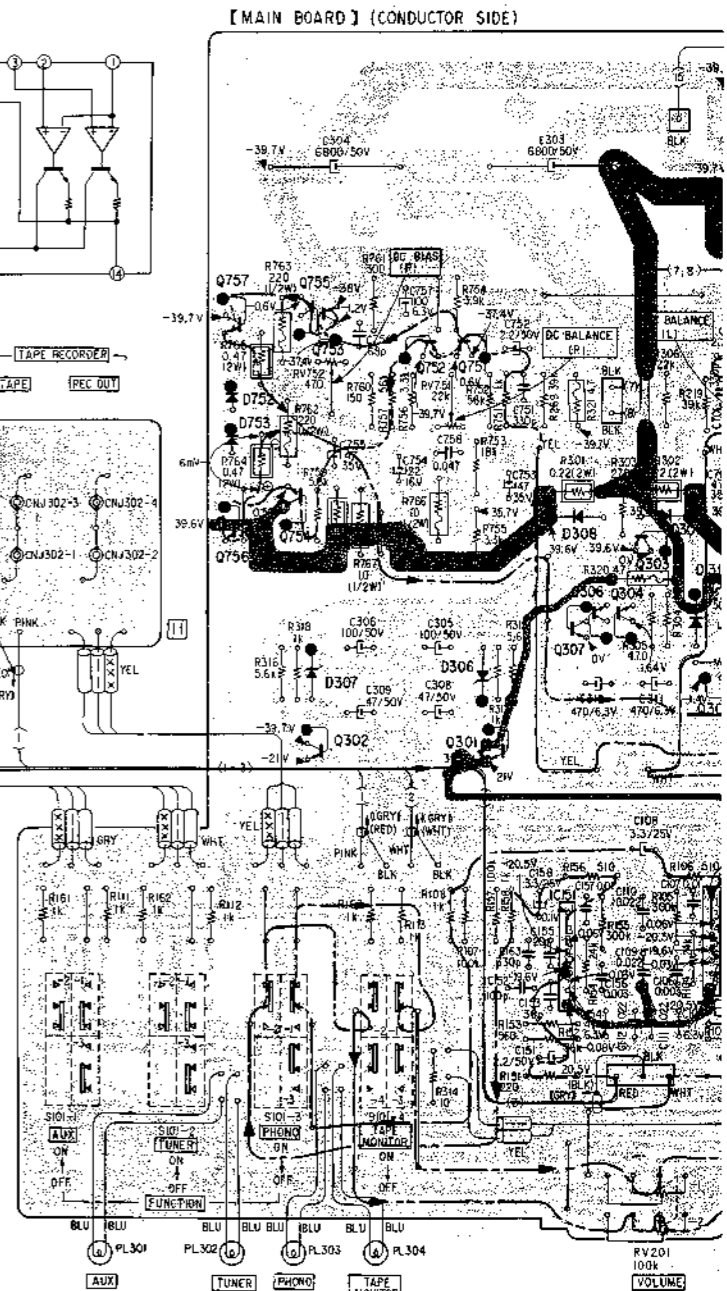
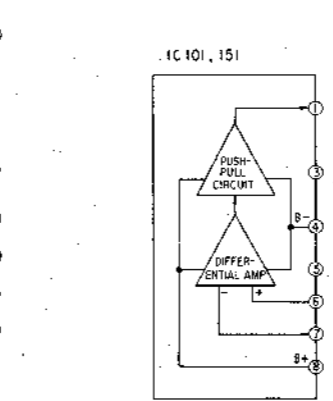
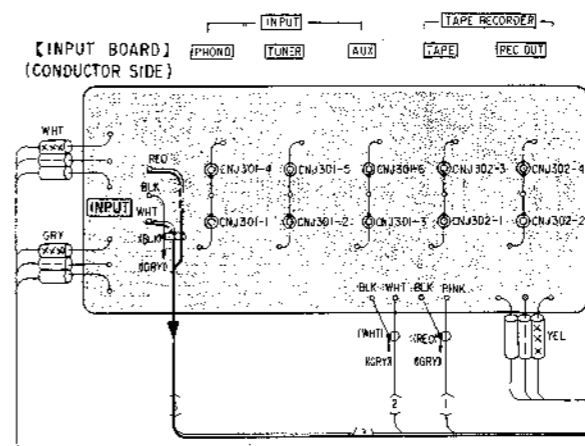
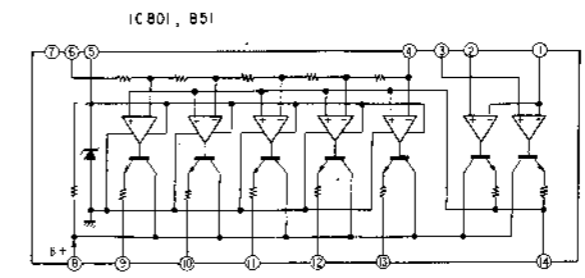
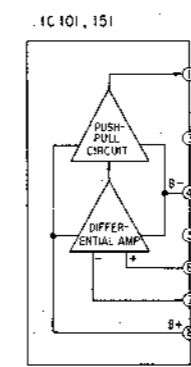
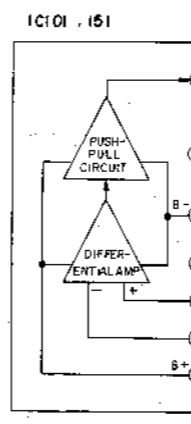
Signal path

- : L-CH
- : R-CH
- : L-CH or R-CH
- [ ] : B+ pattern
- [ ] : B- pattern

IC	IC801	IC851
D	802, 801	803, 305, 852, 851



[ LED BOARD ]  
(CONDUCTOR SIDE)



[ MAIN BOARD ] (CONDUCTOR SIDE)

Q	757	755	753	752	751	301	307, 306, 304	303
IC	756	754	302				IC151	IC11
D	752	753	307			306	308	309
								310

E

F

G

H

I

J

K

L

enden  
Bestückungsseite

-Kanal  
ngsspannung  
ngsspannung

the end of the jacket

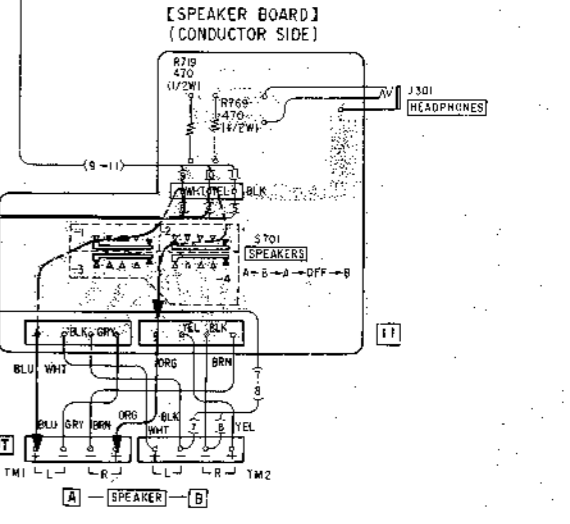
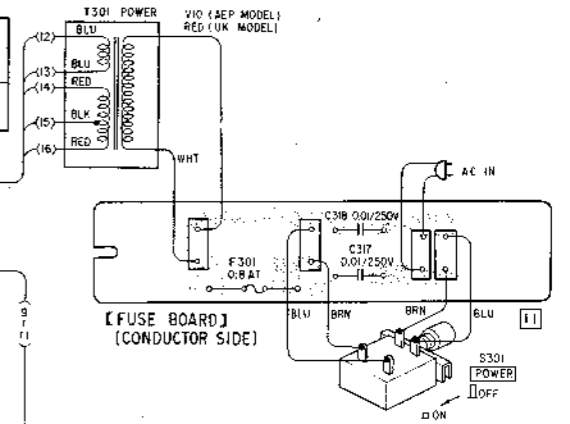
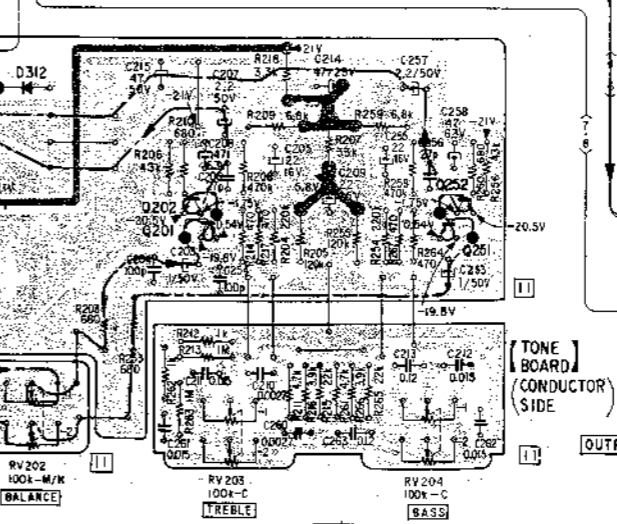
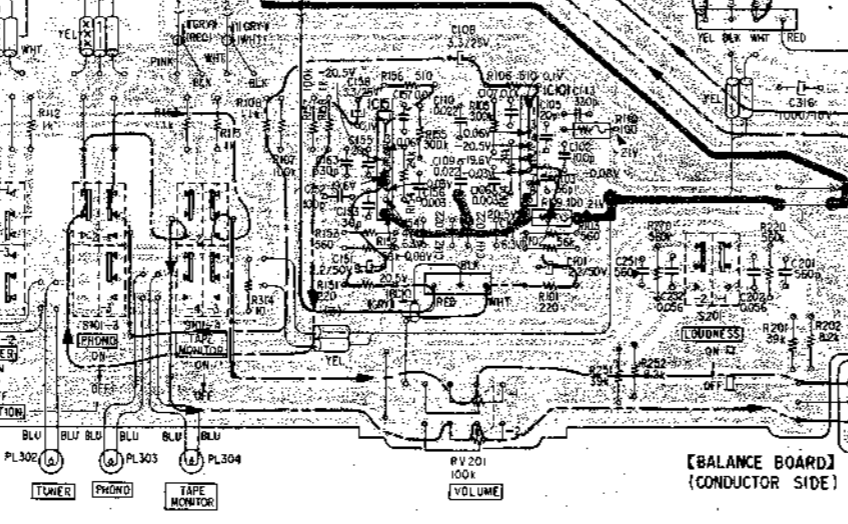
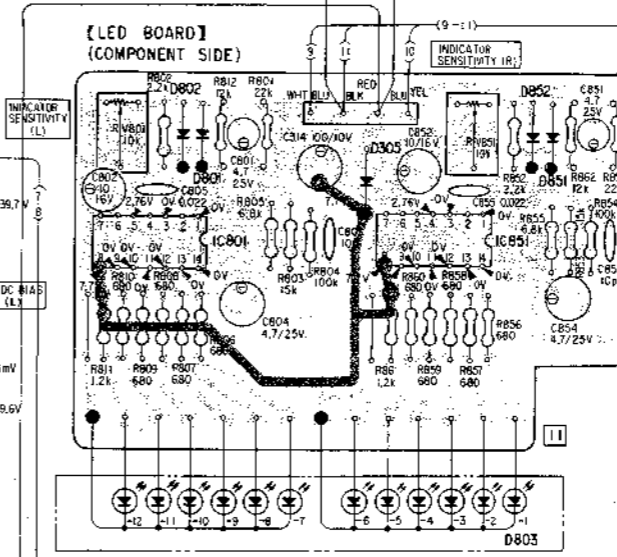
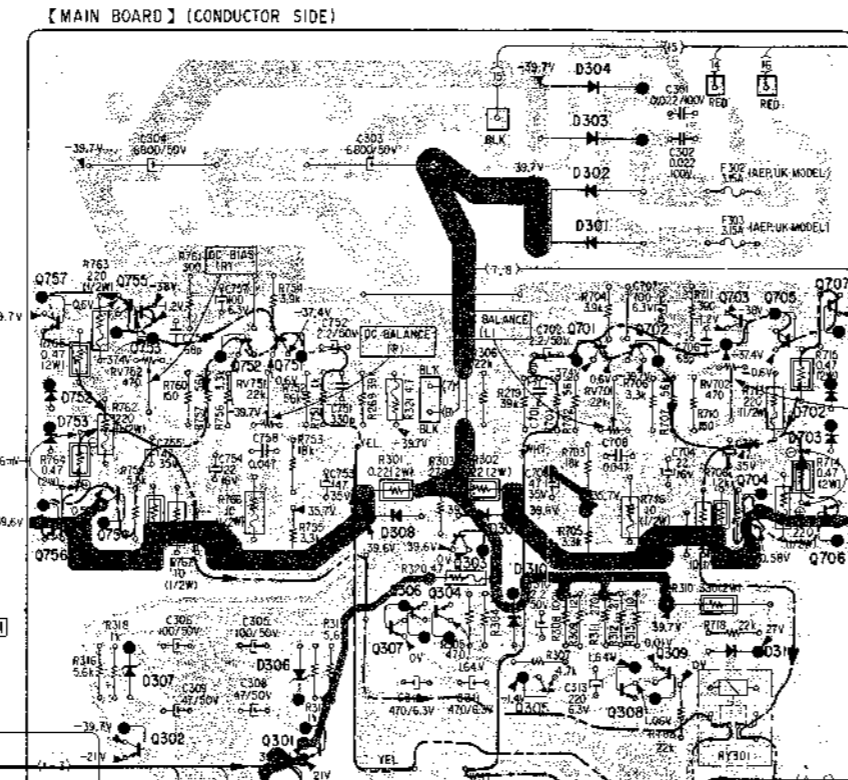
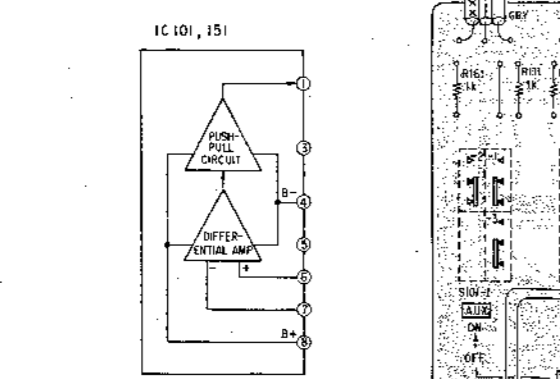
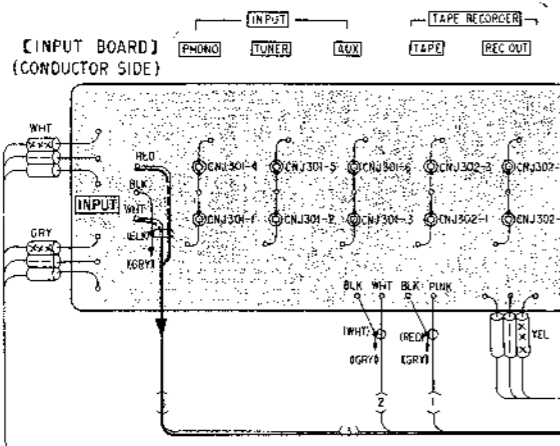
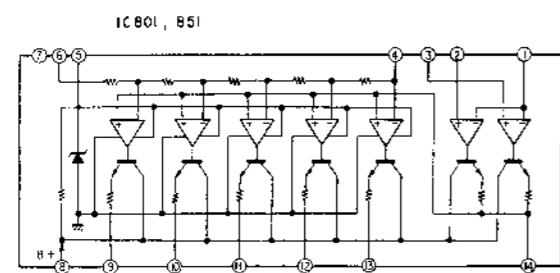
from the component side

52, 851

803

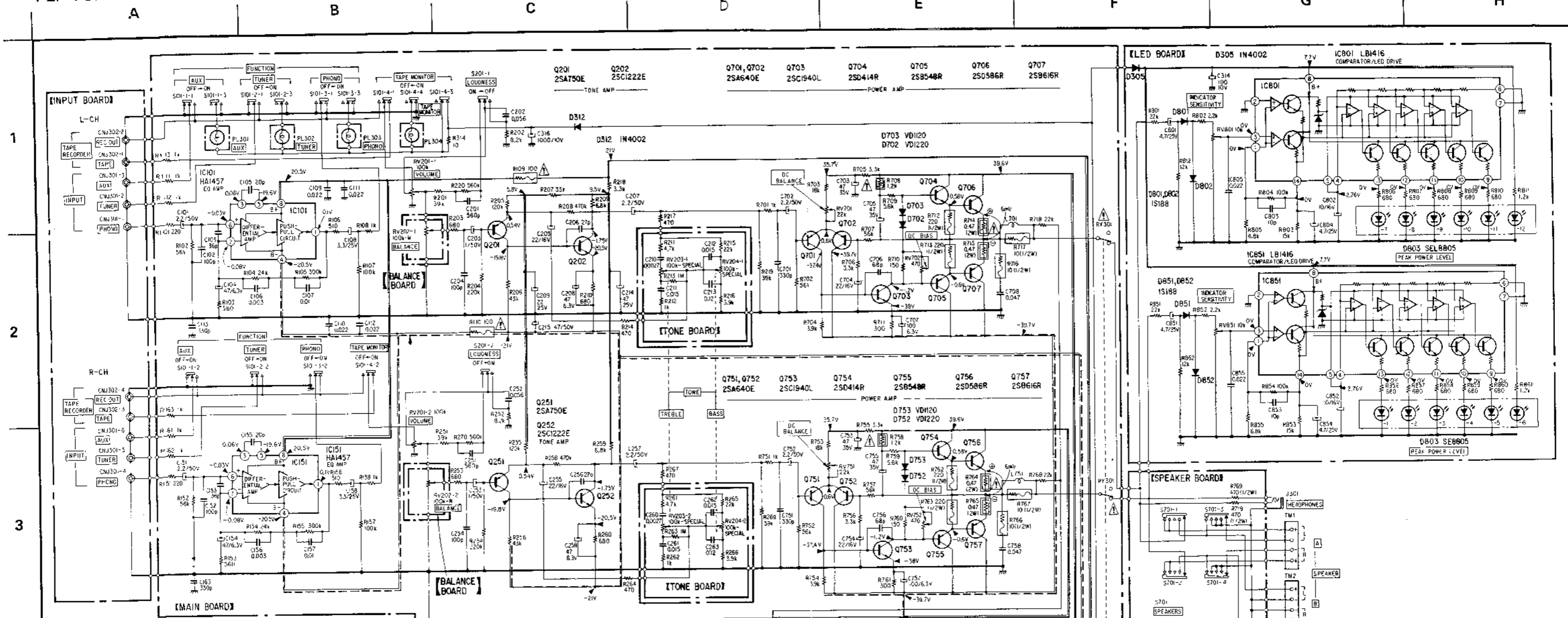
IC101, 151

Q	757	755	752	751	301	307,306,304	303	701	702	703	705	707	IC801	202	IC851	252	Q		
IC	756	754	302			IC151		IC101	308	309	704	706		201	251		IC		
D	752	753	307		306	308	309	310	304,303	302,301	311	702	703	312	802,804	803	305	852,851	D



4-2. FUNKTIONSSCHALTBILD

4-2. SCHEMATIC DIAGRAM



Bemerkung:

- Alle Kondensatoren sind in  $\mu F$ , wenn nicht anders gekennzeichnet. Betriebsspannungen unter 50 V sind außer für Elektrolytkondensatoren nicht angegeben.
- Alle Widerstände sind in Ohm und  $\frac{1}{4} W$ , wenn nicht anders gekennzeichnet.  $k \Omega$ : 1000  $\Omega$ ;  $M \Omega$ : 1000  $k \Omega$
- Alle Einstellregler und Potentiometer haben eine charakteristische B-Kurve, wenn nicht anders angegeben.
- : Frontplattenbeschriftung
- : schwerentflammbarer Widerstand
- : Sicherungswiderstand
- : Reparaturabgleich
- : + $U_B$  (Leiterzug)
- : - $U_B$  (Leiterzug)
- Spannungsangaben sind Gleichspannungen und auf Masse bezogen, wenn nicht anders gekennzeichnet.
- Die Messungen werden mit einem Voltmeter (20  $k\Omega/V$ ) ohne Signal vorgenommen.
- Die Spannungen tolerieren im üblichen Rahmen der Bauteilertoleranzen.

• Schalter

Pos. Nr. Ref. No.	Schalter Switch	Stelle Position
S101-1-1 to 3	AUX	OFF
S101-2-1 to 3	TUNER	OFF
S101-3-1 to 3	PHONO	ON
S101-4-1 to 4	TAPE MONITOR	ON
S201-1, 2	LOUDNESS	ON
S301	POWER	OFF
S701-1 to 4	SPEAKERS	A + B

• Switches

**Achtung:**  
Die grau unterlegten und mit diesem Zeichen gekennzeichneten Bauteile sind für die Betriebssicherheit wichtig. Nur durch Original- WEGA - Teile ersetzen.

**Note:**  
The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in  $\mu F$  unless otherwise noted.  $\mu F = \mu\mu F$ . 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms,  $\frac{1}{4} W$  unless otherwise noted.  $k \Omega$ : 1000  $\Omega$ ;  $M \Omega$ : 1000  $k \Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : panel designation
- : nonflammable resistor
- : fusible resistor
- : adjustment for repair
- : + $U_B$
- : - $U_B$
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal conditions with a VOM (20  $k\Omega/V$ ).
- Voltage variations may be noted due to normal production tolerances.







**TEIL 6  
ERSATZTEILLISTE**

**SECTION 6  
ELECTRICAL SPARE PARTS LIST**

Nr. No.	Sachnr. Part No.	Beschreibung Description
<b>HALBLEITER      SEMICONDUCTORS</b>		
<b>Transistoren      Transistors</b>		
Q201, 251	8-729-612-77	2SA1027R
Q202, 252	8-729-663-47	2SC1364
Q301	8-760-413-10	2SC1475
Q302	8-729-468-43	2SA684
Q303	8-729-612-77	2SA1027R
Q304-308	8-729-663-47	2SC1364
Q309	8-760-413-10	2SC1475
Q701, 751	8-729-468-43	2SA684
Q702, 752		
Q703, 753	8-765-012-20	2SC1811
Q704, 754	8-729-141-43	2SD414
Q705, 755	8-729-154-83	2SB548
Q706, 756	1-800-911-11	2SD586
Q707, 757	1-800-907-11	2SB616
IC101, 151	8-759-314-57	HA1457
IC801, 851	8-759-814-16	LB1416
D305	8-719-200-02	10E2
D306, 307	8-719-931-22	EQB01-22
D308, 309	8-719-815-55	1S1555
D310	1-800-913-11	1SS54
D311, 312	8-719-200-02	10E2
D702, 752	8-719-122-00	VD1220
D703, 753	8-719-112-01	VD1120
D801, 851	8-719-422-21	1T22AM
D802, 852		
D803	8-719-388-05	SEL8805

**KONDENSATOREN      CAPACITORS**

Alle Kondensatoren sind in  $\mu F$ . Standardkondensatoren sind nicht aufgeführt. Die Sachnummern für diese Kondensatoren sind in der Liste auf Seite 16-17 zusammengefaßt.

Elect: Elektrolytkondensator.

All capacitors are in  $\mu F$ . Common capacitors are omitted.

Refer to the lists on pages 16-17 for their part numbers.

p:  $\mu F$ , elect: electrolytic.

C101, 151	1-121-450-00	2.2	50V	elect
C102, 152	1-102-973-00	100p		
C103, 153	1-102-940-00	3p		
C104, 154	1-123-306-00	47	6.3V	elect
C105, 155	1-102-958-00	20p		
C106, 156	1-108-566-00	0.003		mylar

Nr. No.	Sachnr. Part No.	Beschreibung Description
C107, 157	1-108-579-00	0.01      mylar
C108, 158	1-121-392-00	3.3      25V    elect
C109, 110	1-108-242-00	0.022      mylar
C111, 112	1-101-005-00	0.022
C113, 163	1-102-820-00	330p
C201, 251	1-102-115-00	560p
C202, 252	1-108-597-00	0.056      mylar
C203, 253	1-121-391-00	1      50V    elect
C204, 254	1-102-973-00	100p
C205, 255	1-121-479-00	22      16V    elect
C206, 256	1-102-961-00	27p
C207, 257	1-121-450-00	2.2      50V    elect
C208, 258	1-123-306-00	47      6.3V    elect
C209	1-121-480-00	22      25V    elect
C210, 260	1-108-565-00	0.0027      mylar
C211, 261	1-108-583-00	0.015      mylar
C212, 262		
C213, 263	1-108-605-00	0.12      mylar
C214	1-121-410-00	47      25V    elect
C215	1-121-411-00	47      50V    elect
C303, 304	1-125-202-00	6800      50V    elect
C305, 306	1-121-417-00	100      50V    elect
C308, 309	1-121-411-00	47      50V    elect
C310	1-121-450-00	2.2      50V    elect
C311, 312	1-121-424-00	470      6.3V    elect
C313	1-121-419-00	220      6.3V    elect
C314	1-123-307-00	100      10V    elect
C316	1-123-311-00	1000      10V    elect
C701, 751	1-102-820-00	330p
C702, 752	1-121-395-00	4.7      25V    elect
C703, 753	1-121-653-00	47      35V    elect
C704, 754	1-121-479-00	22      16V    elect

Änderungen, die dem technischen Fortschritt dienen, vorbehalten.  
Subject to modifications due to standardization.

Die grau unterlegten und mit diesen Zeichen // gekennzeichneten Bauteile sind für die Betriebssicherheit wichtig. Nur durch Original- WEGA-Teile ersetzen.  
The components identified by shading and marks // are critical spares. Replace only with part number specified.

Nr. No.	Sachnr. Part No.	Beschreibung Description
C705, 755	1-121-653-00	47 35V elect
C706, 756	1-101-888-00	68p
C707, 757	1-121-413-00	100 6.3V elect
C708, 758	1-108-603-00	0.1 mylar
C801, 851	1-121-395-00	4.7 25V elect
C802, 852	1-121-651-00	10 16V elect
C803, 853	1-102-954-00	10p
C804, 854	1-121-395-00	4.7 25V elect
C805, 855	1-108-242-00	0.022 mylar

**WIDERSTÄNDE RESISTORS**

Alle Widerstandswerte sind in Ohm. Normale 1/4 W-Widerstände sind nicht aufgeführt. Die Sachnummern für diese Widerstände sind in der Liste auf Seite 18 zusammengefaßt.

kΩ : 1000Ω; MΩ : 1000 kΩ

All resistors are in ohms. Common 1/4 W carbon resistors are omitted. Refer to the list on page 18 for their part numbers.

kΩ : 1000Ω; MΩ : 1000 kΩ

R409, 410	1-121-399-00	5100 1/2W fusible
R501, 502	1-101-854-00	472 1/2W wire wound (non-laminable)
R410	1-102-954-00	110 1/2W metal oxide (non-laminable)
R525	1-121-849-00	4.7 1/2W fusible
R704, 753	1-121-940-00	150k 1/2W carbon (non-laminable)
R705	1-108-600-00	220 1/2W fusible
R706	1-121-133-00	0.47 1/2W metal plate (non-laminable)
R707	1-108-600-00	10 1/2W fusible

RV19, 769	1-244-865-00	470 1/2W carbon
RV201	1-226-618-00	100k-B/B, variable; VOLUME
RV202	1-226-215-00	100k-M/N, variable; BALANCE
RV203	1-226-213-00	100k-special/special, variable; TREBLE
RV204	1-226-214-00	100k-special/special, variable; BASS
RV701, 751	1-226-237-00	20k-B, adjustable; dc balance
RV702, 752	1-226-232-00	500-B, adjustable; dc bias
RV801, 851	1-226-236-00	10k-B, adjustable; indicator sensitivity

**SCHALTER SWITCHES**

S101	1-552-991-00	Pushbutton, FUNCTION, TAPE MONITOR
S201	1-552-989-00	Pushbutton, LOUDNESS
S801	1-108-242-00	Pushbutton, POWER

Nr. No.	Sachnr. Part No.	Beschreibung Description
S701	1-552-990-00	Rotary-slide, SPEAKERS
<b>SONSTIGES MISCELLANEOUS</b>		
CNJ301	1-507-637-21	Jack, 6p, phono; INPUT
CNJ302	1-507-629-00	Jack, 4p phono; TAPE RECORDER

J301	1-507-553-00	Jack, HEADPHONES
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PL301-304	1-518-340-71	Lamp, 8V 50mA; FUNCTION, TAPE MONITOR
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TM1, 2	1-536-605-00	Plate, terminal; SPEAKER
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MI301, 302	1-518-340-71	Holder, plug
MI303, 304	1-518-340-71	Holder, plug
MI305, 306	1-518-340-71	Holder, plug
MI307, 308	1-518-340-71	Holder, plug
MI309, 310	1-518-340-71	Holder, plug
MI311, 312	1-518-340-71	Holder, plug
MI313, 314	1-518-340-71	Holder, plug
MI315, 316	1-518-340-71	Holder, plug
MI317, 318	1-518-340-71	Holder, plug
MI319, 320	1-518-340-71	Holder, plug
MI321, 322	1-518-340-71	Holder, plug
MI323, 324	1-518-340-71	Holder, plug
MI325, 326	1-518-340-71	Holder, plug
MI327, 328	1-518-340-71	Holder, plug
MI329, 330	1-518-340-71	Holder, plug
MI331, 332	1-518-340-71	Holder, plug
MI333, 334	1-518-340-71	Holder, plug
MI335, 336	1-518-340-71	Holder, plug
MI337, 338	1-518-340-71	Holder, plug
MI339, 340	1-518-340-71	Holder, plug
MI341, 342	1-518-340-71	Holder, plug
MI343, 344	1-518-340-71	Holder, plug
MI345, 346	1-518-340-71	Holder, plug
MI347, 348	1-518-340-71	Holder, plug
MI349, 350	1-518-340-71	Holder, plug
MI351, 352	1-518-340-71	Holder, plug
MI353, 354	1-518-340-71	Holder, plug
MI355, 356	1-518-340-71	Holder, plug
MI357, 358	1-518-340-71	Holder, plug
MI359, 360	1-518-340-71	Holder, plug
MI361, 362	1-518-340-71	Holder, plug
MI363, 364	1-518-340-71	Holder, plug
MI365, 366	1-518-340-71	Holder, plug
MI367, 368	1-518-340-71	Holder, plug
MI369, 370	1-518-340-71	Holder, plug
MI371, 372	1-518-340-71	Holder, plug
MI373, 374	1-518-340-71	Holder, plug
MI375, 376	1-518-340-71	Holder, plug
MI377, 378	1-518-340-71	Holder, plug
MI379, 380	1-518-340-71	Holder, plug
MI381, 382	1-518-340-71	Holder, plug
MI383, 384	1-518-340-71	Holder, plug
MI385, 386	1-518-340-71	Holder, plug
MI387, 388	1-518-340-71	Holder, plug
MI389, 390	1-518-340-71	Holder, plug
MI391, 392	1-518-340-71	Holder, plug
MI393, 394	1-518-340-71	Holder, plug
MI395, 396	1-518-340-71	Holder, plug
MI397, 398	1-518-340-71	Holder, plug
MI399, 400	1-518-340-71	Holder, plug

**ZUBEHÖR UND VERPACKUNGSMATERIAL ACCESSORIES AND PACKING MATERIALS**

Sachnr. Part No.	Beschreibung Description
3-701-630-00	Bag, plastic; instruction manual
3-770-944-11	Manual, instruction
4-864-024-00	Carton
4-864-025-00	Cushion
4-891-037-00	Bag, plastic; set

Achtung:  
Die grau unterlegten und mit diesem Zeichen  gekennzeichneten Bauteile sind für die Betriebsbereitschaft wichtig. Nur durch Original-WEGA-Teile ersetzen.

Note:  
The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELEKTROLYTKONDENSATOREN / ELECTROLYTIC CAPACITORS

CAP. (µF)	RATING → : Use the high voltage rated one.					
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47						1-121-726-00
1.0						1-121-391-00
2.2						1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000		1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	-
3300	1-121-661-00	1-123-075-00	1-123-071-00	-	-	-

CAP. (µF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	-	-	-	-
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	-	1-123-028-00
3.3	1-121-995-00	-	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	-	-
47	1-123-251-00	1-121-919-00	-	-
100	1-123-084-00	-	-	-

KERAMIKKONDENSATOREN / CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (µF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001µF = 1,000pF

KERAMIK (HALBLEITER) KONDENSATOREN  
CERAMIC (SEMI-CONDUCTOR) CAPACITORS

RATING → : Use the high voltage rated one.					
CAP. (µF)	25 VOLT.	50 VOLT.	CAP. (µF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

MYLARKONDENSATOREN / MYLAR CAPACITORS

CAP. (µF)	50 VOLT.			CAP. (µF)	100 VOLT.			CAP. (µF)	200 VOLT.		
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	-	-
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	-	-
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	-	-
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	-	-
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00	-	-	-	-
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00	-	-	-	-
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00	-	-	-	-



TANTALKONDENSATOREN

TANTALUM CAPACITORS

CAP. (µF)	RATING → Use the high voltage rated one.						
	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01							1-131-396-00
0.015							1-131-397-00
0.022							1-131-398-00
0.033							1-131-399-00
0.047							1-131-400-00
0.068							1-131-401-00
0.1							1-131-402-00
0.15							1-131-403-00
0.22							1-131-404-00
0.33						1-131-409-00	1-131-405-00
0.47					1-131-412-00		1-131-406-00
0.68				1-131-415-00		1-131-410-00	1-131-407-00
1.0			1-131-418-00		1-131-413-00		1-131-408-00
1.5		1-131-421-00		1-131-416-00		1-131-411-00	1-131-348-00
2.2	1-131-424-00		1-131-419-00		1-131-414-00	1-131-355-00	1-131-349-00
3.3		1-131-422-00		1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00		1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8		1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00		
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00				
68	1-131-394-00	1-131-388-00					
100	1-131-395-00						

TANTALKONDENSATOREN



TANTALUM CAPACITORS

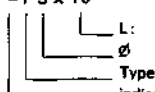
CAP. (µF)	RATING					
	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033						1-131-273-00
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15						1-131-277-00
0.22					1-131-262-00	1-131-278-00
0.33					1-131-263-00	1-131-279-00
0.47			1-131-169-00		1-131-264-00	1-131-280-00
0.68				1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00		1-131-266-00	1-131-282-00
1.5		1-131-250-00			1-131-267-00	1-131-283-00
2.2				1-131-259-00	1-131-268-00	1-131-284-00
3.3			1-131-255-00		1-131-269-00	
4.7		1-131-251-00	1-131-171-00		1-131-270-00	
6.8				1-131-260-00	1-131-271-00	
10			1-131-256-00		1-131-272-00	
15		1-131-252-00		1-131-261-00		
22			1-131-257-00			
33	1-131-176-00	1-131-253-00	1-131-173-00			
47	1-131-288-00	1-131-174-00				
100	1-131-177-00					

## SCHIWID — 1/4 WATT — CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

### KLEINTEILE-VERZEICHNIS

Schraube:  
Screw:  
- P 3 x 10

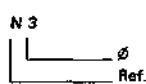


L:  
Ø  
Type













indicates: slotted-head screw,  
without indication: cross-recess screw (Phillips type),  
bedeutet: Schlitzkopfschraube,  
ohne Andeutung: Kreuzschlitzschraube.














### HARDWARE NOMENCLATURE

Mutter, Ring, Sicherungerring  
Nut, Washer, Retaining ring:



N 3  
Ø Ref.

Ref.	Shape Form	Description	Benennung
		<b>SCREWS</b>	<b>SCHRAUBEN</b>
P		pan-head screw	Flachkopfschraube
PWH		pan-head screw with washer face	Flachkopfschraube mit Scheibe
PS PSP		pan-head screw with spring washer	Flachkopfschraube mit Federring
PSW PSPW		pan-head screw with spring and flat washers	Flachkopfschraube mit Federring und Scheibe
R		round-head screw	Halbrundschraube
K		flat-countersunk-head screw	Serkschraube
RK		oval-countersunk-head screw	Linsensenkschraube
B		binding-head screw	Klemmkopfschraube
T		truss-head screw	Flachrundschraube
F		flat-fillister-head screw	Zylinderschraube
RF		fillister-head screw	Linsenschraube
BV		braizer-head screw	Rundkopfschraube

Ref.	Shape Form	Description	Benennung
		<b>SELF-TAPPING SCREWS</b>	<b>TREIBSCHRAUBEN</b>
TA		self-tapping screw	Treibschraube
PTP		pan-head self-tapping screw	Flachkopftreibschraube
PTPWH		pan-head self-tapping screw with washer face	Flachkopftreibschraube mit Scheibe
PTTWH		pan-head thread-rolling screw with washer face	Flachkopfgewinderollschraube mit Scheibe
		<b>SET SCREWS</b>	<b>GEWINDESTIFTE</b>
SC		set screw	Gewindestift mit Schlitz
SC		hexagon-socket set screw	Gewindestift mit 6-Kant
		<b>NUT</b>	<b>MUTTER</b>
N		nut	Mutter
		<b>WASHERS</b>	<b>SCHLEIBEN</b>
W		flat washer	Scheibe
SW		spring washer	Federring
LW		internal-tooth lock washer	Zahnscheibe (innen)
LW		external-tooth lock washer	Zahnscheibe (außen)
		<b>RETAINING RINGS</b>	<b>RINGE</b>
E		retaining ring E-ring	Haltering-Sicherungsring
G		grip-type retaining ring	Greifring

# WEGA

WEGA-Elektronik G.m.b.H.  
Mathias-Brüggen-Straße 76  
D-5000 Köln 30