

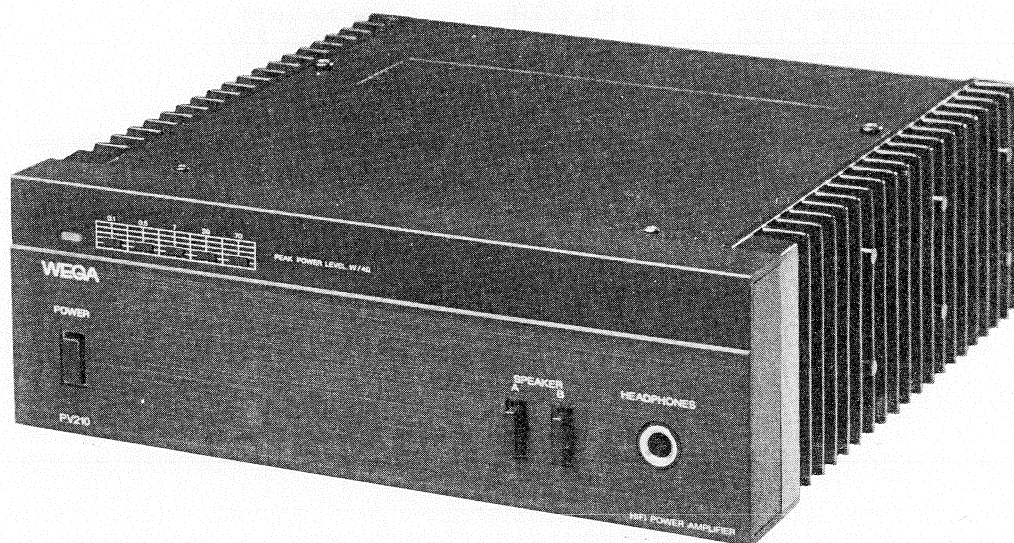
WEGA

HIFI-STEREO-LEISTUNGSVERSTÄRKER HIFI-STEREO POWER AMPLIFIER

Mini Modul PV210

Kundendienstanleitung Service Manual

11/80




INHALT

CONTENTS


Seite/Page

Technische Daten	2	<i>Specifications</i>
Teil 1 Abgleich	3-4	<i>Section 1 Adjustments</i>
Teil 2 Schaltbilder	3-6	<i>Section 2 Diagrams</i>
Halbleiteranschlüsse	5	<i>Semiconductors</i>
Teil 3 Explosionsdarstellung	7-8	<i>Section 3 Exploded View</i>
Teil 4 Ersatzteilliste	9	<i>Section 4 Spare Parts list</i>

ACHTUNG!

DIE IN DEN SCHALTBILDERN, DEN EXPLOSIONSZEICHNUNGEN UND DER ERSATZTEILLISTE GRAU UNTERLEGTE UND MIT DIESEM ZEICHEN  GEKENNZEICHNETEN BAUTEILE SIND FÜR DIE BETRIEBSSICHERHEIT 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.

TECHNISCHE DATEN

Halbleiter	4 IC, 2 FET, 10 Transistoren, 25 Dioden, 6 LED
Stromversorgung	220 V, 50 Hz
Leistungsaufnahme	240 W
Abmessungen (B x H x T)	250 x 71 x 218 mm
Gewicht	4.1 kg (40.2 N)
Sinusleistung (0.1 % Klirrfaktor, 20 Hz - 20 kHz)	2 x 35 W / 4Ω
Klirrfaktor	< 0.02 % (1 kHz, 35 W)
Signal/Rausch-Abstand	> 150 dB (1 kHz, IHF A-Kurve)
Frequenzgang	10 Hz - 100 kHz (> -3 dB)
Leistungsbandbreite (Klirrfaktor 0,12%)	5 Hz - 60 kHz
Eigenrauschen	< 0.5 mV
Ausgangspegel Kopfhörer	> 0.85 mW (± 1 dB)

SPECIFICATIONS

<i>Semiconductors</i>
<i>Power requirements</i>
<i>Power consumption</i>
<i>Dimensions (W x H x D)</i>
<i>Weight</i>
<i>Continuous Average Output (0.1 % THD, 20 Hz - 20 kHz)</i>
<i>Total harmonic distortion</i>
<i>S/N ratio</i>
<i>Frequency response</i>
<i>Power bandwidth (Distortion 0.12 %)</i>
<i>Residual noise</i>
<i>Output level Headphones</i>

2-1. PLATINENLAGEPLAN

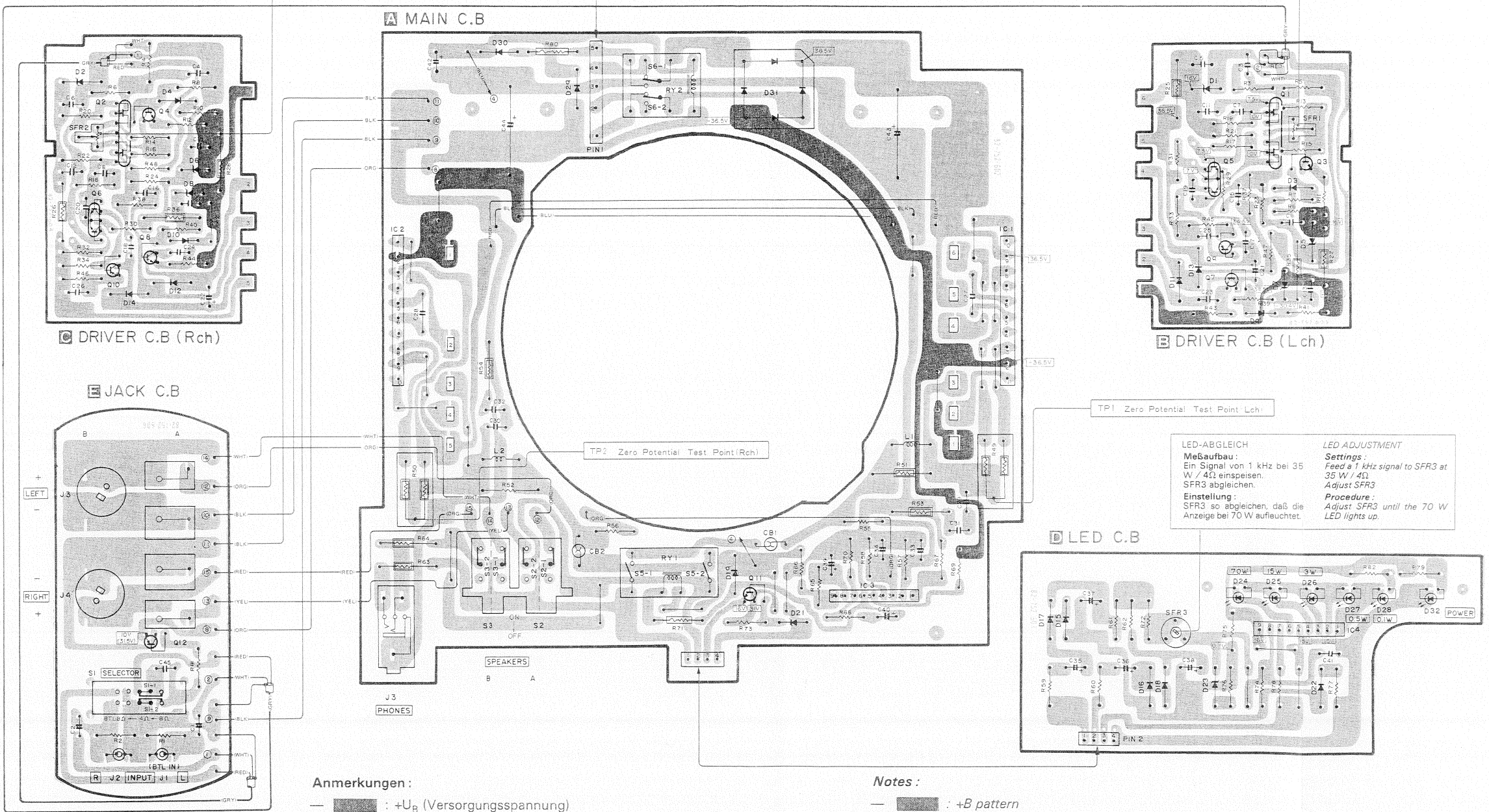
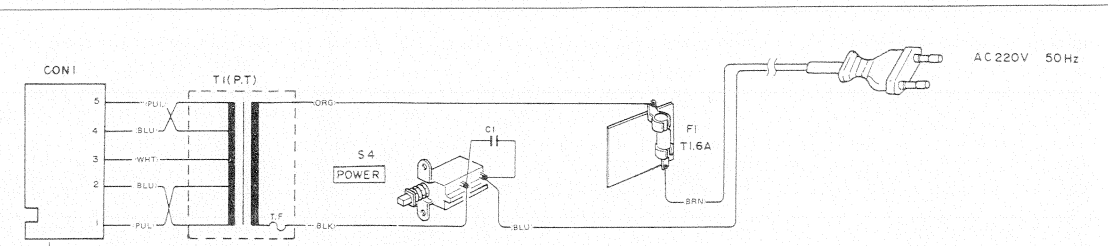
2-1. MOUNTING DIAGRAM

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
B
C
D
E
F
G
H
I

NULLSPANNUNGSABGLEICH
Meßaufbau:
 Testpunkte: TP1 (LK) und TP2 (RK).
 Abgleich: SFR1 (LK) und SFR2 (RK).
Einstellung:
 Mit dem Röhrenvoltmeter die Spannung zwischen TP1 (LK) und TP2 (RK) gegen Masse messen. Auf 0 V abgleichen.

DC BALANCE ADJUSTMENT
Settings:
 Test points: TP1 (L-CH) and TP2 (R-CH).
 Adjustment: SFR1 (L-CH) and SFR2 (R-CH).
Procedure:
 Adjust TP1 (L-CH) and TP2 (R-CH) for a 0 V reading on the VOM.

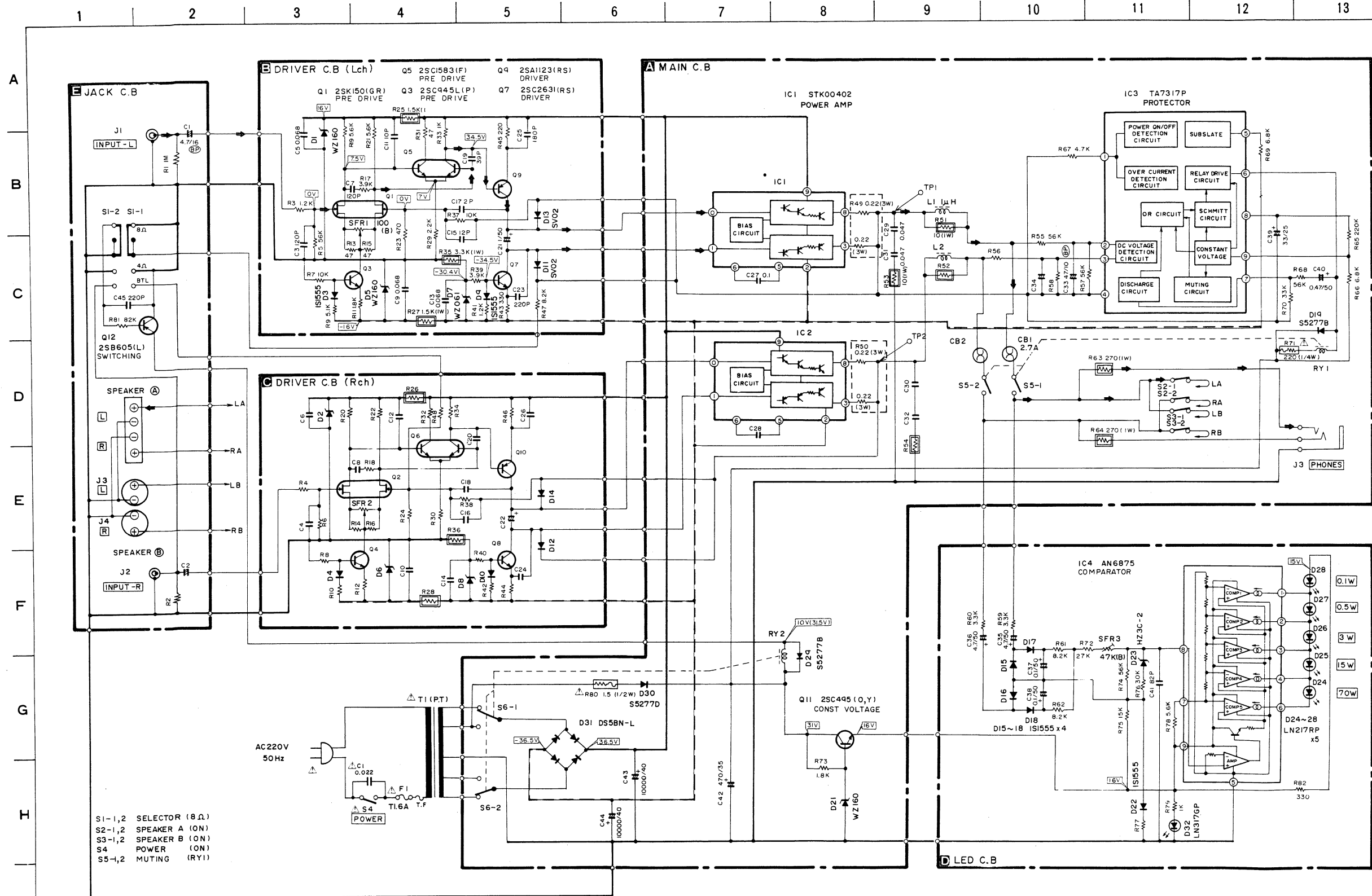


Anmerkungen:

- ■■■ : +U_B (Versorgungsspannung)
- ■■■ : -U_B (Versorgungsspannung)
- ■■■ : Übrige Leiterbahnen
- Messungen ohne Signal mit einem Voltmeter (20 kΩ/V).
- (*) deutet auf Messungen mit einem Röhrenvoltmeter bei Aufnahme.

Notes:

- ■■■ : +B pattern
- ■■■ : -B pattern
- ■■■ : Other patterns
- Readings are taken under no-signal conditions with a VOM (20 kΩ/V).
- (*) indicates that the reading was taken with a VTVM during REC.

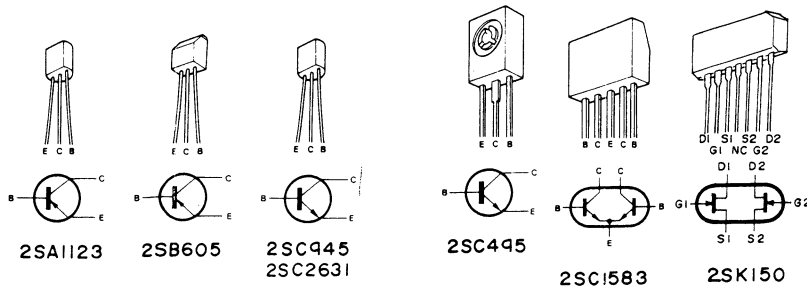


- Anmerkungen:**
- 1) ——— : +U_B Leiterzug
 - 2) - - - - : -U_B Leiterzug
 - 3) : Signalweg.
 - 4) Messungen ohne Signal mit einem Voltmeter (20 kΩ/V).
 - 5) Alle Widerstände sind in Ohm und ¼ W, wenn nicht anders gekennzeichnet. Toleranz: ± 5%.
 - 6) Alle Kondensatoren sind in µF und Keramik, wenn nicht anders angegeben. Spannungen unter 50 V sind nicht angegeben, ausgenommen für Elektrolyt- und Tantalkondensatoren. Toleranz: ± 5% (J), 10% (K).
 - 7) Symbole für Keramik Kondensatoren:
 - : Temperature compensation (SL)
 - : High dielectric constant (YY)
 - : High dielectric constant (YW, YP, YZ)
 - 8) Andere Symbole:
 - : Mylarkondensator
 - : Alu-Festkörperkondensator
 - : Kunststoffkondensator
 - : Bipolarer Kondensator
 - : Kriechstromfester Kondensator
 - : Sicherungswiderstand
 - : Schwerentflammbarer Widerstand.

Änderungen, die dem technischen Fortschritt dienen, vorbehalten.

- Notes:**
- 1) ——— : B+ bus
 - 2) - - - - : B- bus
 - 3) : Signal path.
 - 4) Readings are taken under no-signal conditions with a VOM (20 kΩ/V).
 - 5) All resistors are in ohms and ¼ W unless otherwise noted. Tolerance: ± 5%.
 - 6) All capacitors are in µF and ceramic unless otherwise noted. 50 WV or less are not indicated, except for electrolytics and tantalum. Tolerance: ± 5% (J) or 10% (K).
 - 7) Ceramic capacitor symbols:
 - : temperature compensation (SL)
 - : high dielectric constant system (YY)
 - : high dielectric constant system (YW, YP, YZ)
 - 8) Other symbols:
 - : Mylar capacitor
 - : Aluminium solid state capacitor
 - : Polypropylene film capacitor
 - : Bi-polarized capacitor
 - : Low-leakage capacitor
 - : Fusible resistor
 - : Nonflammable resistor.

- S1-1,2 SELECTOR (8 Ω)
- S2-1,2 SPEAKER A (ON)
- S3-1,2 SPEAKER B (ON)
- S4 POWER (ON)
- S5-1,2 MUTING (RY1)



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

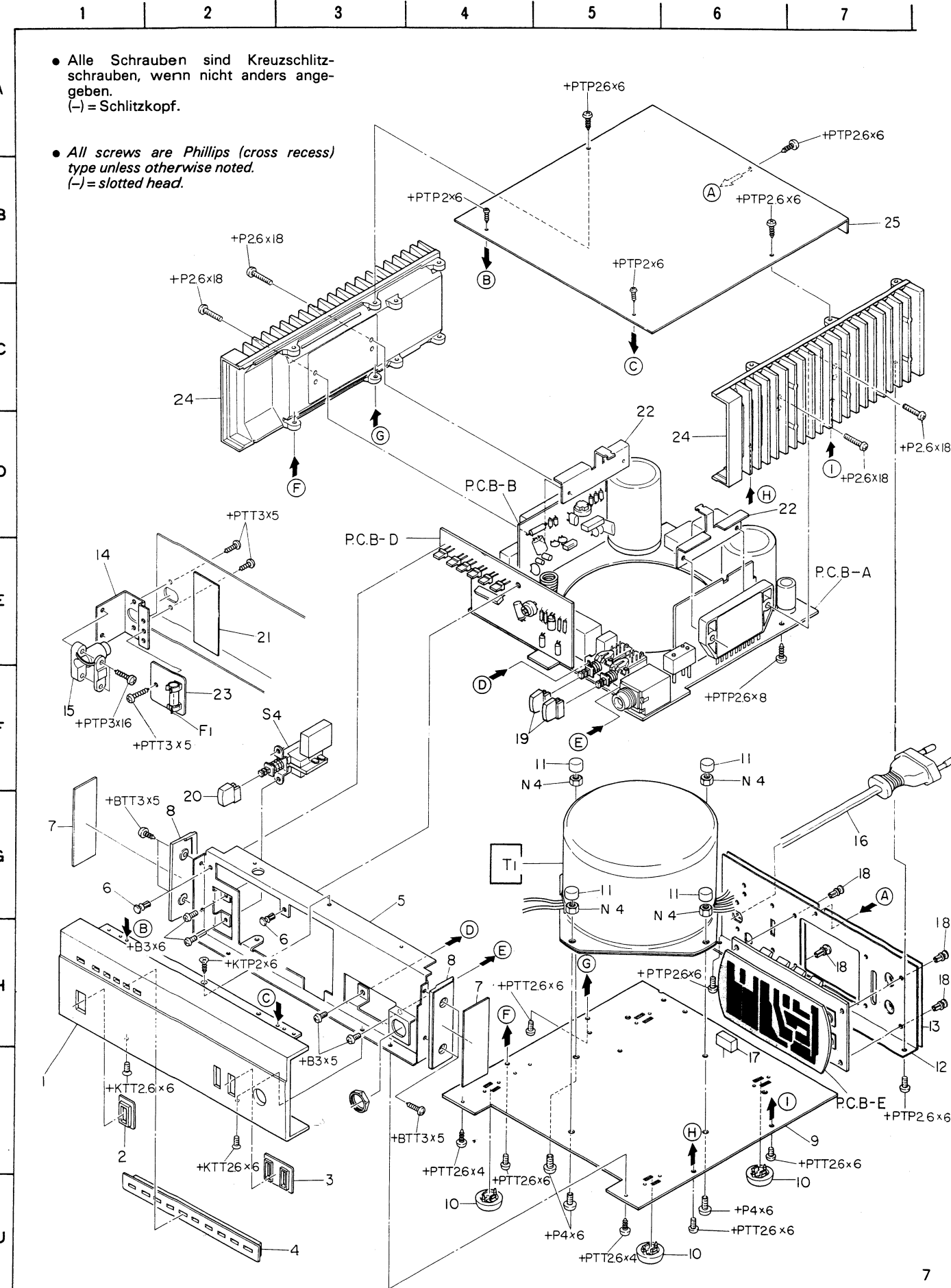
Note:
The components identified by shading and mark are critical for safety. Replace only with part number specified.

TEIL 3
EXPLOSIONSDARSTELLUNG

SECTION 3
EXPLODED VIEW

MECHANISCHE ERSATZTEILLISTE

MECHANICAL PARTS LIST



- Alle Schrauben sind Kreuzschlitzschrauben, wenn nicht anders angegeben. (-) = Schlitzkopf.
- All screws are Phillips (cross recess) type unless otherwise noted. (-) = slotted head.

Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description
1-1	9-943-005-81	Front panel
1-2	9-943-005-21	Guide, Push-button (C)
1-3	9-943-005-20	Guide, Push-button (B)
1-4	9-943-005-32	Guide, LED
1-5	9-943-005-85	Front chassis
1-6	9-943-006-77	Nylon rivet, 3.5-4.5
1-7	9-943-005-16	Side panel sheet
1-8	9-943-005-17	Side panel
1-9	9-943-005-87	Amp. chassis
1-10	9-943-005-22	Foot
1-11	9-943-005-89	Cover, Nut
1-12	9-943-005-86	Back chassis
1-13	9-943-005-84	Jack plate E
1-14	9-943-005-03	Holder AC
1-15	9-943-002-25	Holder, AC power cord
1-16	1-534-817-12	AC power cord
1-17	9-911-815-03	Cushion, 15-10-10
1-18	4-812-134-01	Nylon rivet, 3.5-5.5
1-19	9-943-005-18	Push-button (B)
1-20	9-943-005-19	Push-button (C)
1-21	9-943-005-04	Insulation sheet
1-22	9-943-005-88	Nut, Plate
1-23	9-943-003-49	Fuse holder, 1P
1-24	9-943-005-82	Heat sink
1-25	9-943-005-83	Steel cabinet

ZUBEHÖR & VERPACKUNGSMATERIAL


ACCESSORIES & PACKING MATERIALS

Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description
1	9-943-005-93	Printed indiv., Packing
2	9-943-005-59	Cushion L, Printed indiv.
3	9-943-005-60	Cushion R, Printed indiv.
4	9-943-001-33	Poly-vinyl bag
5	9-943-000-91	Poly-vinyl bag (for case)
6	9-943-002-87	Guarantee card
7	9-943-005-94	Instruction manual
8	9-943-000-90	Poly-vinyl bag (for instruction)
9	9-943-006-14	Connection cord CW-129CSK

**TEIL 4
ELEKTRISCHE ERSATZTEILLISTE**

**SECTION 4
ELECTRICAL PARTS LIST**


Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description		
HALBLEITER SEMICONDUCTORS				
Transistoren Transistors				
Q11	8-729-209-59	2SC495 (O,Y)		
Q1,2	8-729-215-04	FET, 2SK150GR		
Q3,4	8-729-194-57	2SC945L (P)		
Q5,6	8-729-658-21	2SC1583 (F)		
Q7,8	9-943-006-80	2SC2631RS		
Q9,10	9-943-010-51	2SA1123RS		
Q12	8-729-160-51	2SB605 (L)		
I.C.'s I.C.'s				
IC1,2	9-943-006-37	STK00402		
IC3	9-943-001-71	TA7317P		
IC4	9-943-006-39	AN6875		
Dioden Diodes				
D19,29	9-943-006-27	S5277B		
D30	9-943-006-36	S5277D		
D31	9-943-001-72	DS-5BN-L		
D1,2,5,6,21	9-943-006-25	WZ-160		
D7,8	9-943-004-97	WZ-061		
D11~14	8-719-300-02	SV02		
D3,4,9,10 D15,16,17 D18,22	8-719-815-55	1S1555		
D24~28			9-943-006-33	LED, LN217RP
D32			9-943-006-34	LED, LN317GP
SPULEN UND TRAFOS COILS AND TRANSFORMERS				
L1,2	9-943-001-54	Coil, 1μH		
RY1,S5	9-943-006-74	Relay, 24V G2Z		
RY2,S6	9-943-001-53	Relay, 24V MY-2		

T1  9-943-005-91 Power transformer

S2,3 **SCHALTER SWITCHES**
9-943-006-44 Push-switch (SPEAKERS A,B)




S4  9-943-006-45 Push-switch (POWER)

LEITERPLATTEN PRINTED CIRCUIT BOARDS	
COMBI-PCB 9-943-005-90	Combination circuit board
PCB-A	Main circuit board
PCB-B	Driver circuit board (Rch)
PCB-C	Driver circuit board (Lch)
PCB-D	LED circuit board
PCB-E	Jack circuit board

CB1,2  9-943-006-41 **SONSTIGES MISCELLANEOUS**
Circuit breaker, 2.7A

J3 9-943-001-52 Jack, 6.3φ (PHONES)
PIN-1 9-943-004-98 Pin, 5p
J1~4,S1 9-943-005-92 Jack ass'y, w/switch

Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description
----------------------	---------------------	-----------------------------

 9-943-003-49 Fuse holder
 1-534-817-12 AC power cord
 9-943-002-25 Holder, AC power cord

WIDERSTÄNDE RESISTORS

Alle Widerstandswerte sind in Ohm. Normale 1/4 W-, 1/8 W-, 1/16 W-Widerstände sind nicht aufgeführt. Die Sachnummern für diese Widerstände sind in der Liste auf Seite 13-14 zusammengefaßt.
kΩ : 1000Ω : MΩ : 1000 kΩ.

All resistors are in ohms. Common 1/4 W, 1/8 W, 1/16 W carbon resistors are omitted. Refer to the list on page 13-14 for their part numbers. kΩ : 1000Ω : MΩ : 1000 kΩ.


SFR1,2 9-943-006-17 Semi-fixed resistor, 100Ω-B
SFR3 9-943-006-19 Semi-fixed resistor, 47kΩ-B


KONDENSATOREN CAPACITORS

Alle Kondensatoren sind in μF. Spannungen unter 50V sind nicht angegeben, ausgenommen für Elektrolytkondensatoren. Standardkondensatoren sind nicht aufgeführt. Die Sachnummern für diese Kondensatoren sind in der Liste auf Seite 11-12 zusammengefaßt.

All capacitors are in μF. 50V or less are not indicated except for electrolytics. Common capacitors are omitted. Refer to the lists on page 11-12 for their part numbers.

C43,44 9-943-006-16 10000μF 40V electrolytic

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.

MEMO

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

CAP. (pF)	RATING					
	50 VOLT.		50 VOLT.		50 VOLT.	
	PART No.	CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAP. (pF)
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047
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

CAP. (µF)	RATING → : Use the high voltage rated one.				
	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)	RATING										
	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (µF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (µF)	50 VOLT.	100 VOLT.	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							1-131-405-00
0.47					1-131-412-00		1-131-406-00
0.68				1-131-415-00			1-131-407-00
1.0				1-131-418-00			1-131-408-00
1.5		1-131-421-00		1-131-416-00			1-131-411-00
2.2	1-131-424-00		1-131-419-00		1-131-414-00		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			1-131-369-00	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	1-131-352-00
10	1-131-426-00	1-131-383-00		1-131-377-00	1-131-371-00	1-131-365-00	1-131-353-00
15	1-131-390-00	1-131-384-00		1-131-378-00	1-131-372-00	1-131-366-00	1-131-354-00
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						1-131-278-00
0.33						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						

SCHIWID — 1/16 WATT — CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	—	91	1-210-354-00	620	1-210-367-00	4.3k	1-209-772-00	30k	1-210-380-00	200k	1-210-839-00
2.2	—	15	—	100	1-210-355-00	680	1-210-106-00	4.7k	1-209-773-00	33k	1-210-381-00	220k	1-210-840-00
2.4	—	16	—	110	1-210-356-00	750	1-210-107-00	5.1k	1-209-774-00	36k	1-210-394-00	240k	—
2.7	—	18	1-211-688-00	120	1-210-357-00	820	1-210-108-00	5.6k	1-209-775-00	39k	1-210-382-00	270k	1-210-841-00
3.0	—	20	—	130	1-210-358-00	910	1-210-368-00	6.2k	1-209-776-00	43k	1-210-383-00	300k	—
3.3	—	22	—	150	1-210-102-00	1.0k	1-204-122-00	6.8k	1-209-777-00	47k	1-210-384-00	330k	1-210-842-00
3.6	—	24	—	160	1-210-359-00	1.1k	1-210-369-00	7.5k	1-209-778-00	51k	1-210-385-00	360k	—
3.9	—	27	—	180	1-210-360-00	1.2k	1-209-765-00	8.2k	1-209-779-00	56k	1-210-386-00	390k	1-210-843-00
4.3	—	30	1-210-845-00	200	1-210-361-00	1.3k	1-210-370-00	9.1k	1-209-780-00	62k	1-210-387-00	430k	—
4.7	—	33	1-210-846-00	220	1-210-362-00	1.5k	1-209-766-00	10k	1-209-781-00	68k	1-210-388-00	470k	1-210-844-00
5.1	—	36	1-210-847-00	240	1-209-762-00	1.6k	1-210-371-00	11k	1-210-374-00	75k	1-210-389-00	510k	—
5.6	—	39	1-210-848-00	270	1-210-363-00	1.8k	1-209-878-00	12k	1-210-111-00	82k	1-210-390-00	560k	1-211-695-00
6.2	—	43	1-210-849-00	300	1-210-364-00	2.0k	1-209-767-00	13k	1-210-375-00	91k	1-210-391-00	620k	—
6.8	—	47	1-210-395-00	330	1-209-763-00	2.2k	1-209-768-00	15k	1-210-112-00	100k	1-210-115-00	680k	1-211-696-00
7.5	—	51	1-210-101-00	360	1-210-103-00	2.4k	1-209-769-00	16k	1-210-376-00	110k	—	750k	—
8.2	—	56	1-210-351-00	390	1-210-365-00	2.7k	1-209-770-00	18k	1-210-113-00	120k	1-210-836-00	820k	1-211-698-00
9.1	—	62	1-210-352-00	430	1-210-366-00	3.0k	1-210-372-00	20k	1-210-377-00	130k	—	910k	—
10	—	68	1-210-353-00	470	1-209-764-00	3.3k	1-204-123-00	22k	1-210-114-00	150k	1-210-837-00	1 M	—
11	—	75	1-210-392-00	510	1-210-104-00	3.6k	1-210-373-00	24k	1-210-378-00	160k	—	—	—
12	—	82	1-210-393-00	560	1-210-105-00	3.9k	1-209-771-00	27k	1-210-379-00	180k	1-210-838-00	—	—

SCHIWID — 1/8 WATT — CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00	200k	1-246-871-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00	220k	1-246-811-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00	240k	1-247-054-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00	270k	1-247-046-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00	300k	1-247-055-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00	330k	1-247-047-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00	360k	1-247-056-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00	390k	1-247-048-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00	430k	1-247-057-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00	470k	1-247-049-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00	510k	1-247-058-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00	560k	1-247-050-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00	620k	1-247-059-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00	680k	1-247-051-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00	750k	1-247-060-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00	820k	1-247-052-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00	910k	1-247-061-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00	1 M	1-247-053-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00	—	—
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00	—	—

SCHIWID — ¼ WATT — CARBON RESISTORS

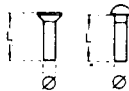
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	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

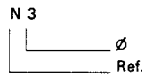
Schraube:
Screw:
- P 3 x 10



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



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



HARDWARE NOMENCLATURE

Ref.	Shape Form	Description	Benennung
		SCREWS	SCHRAUBEN
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	Senkschraube
RK		oval-countersunk-head screw	Linsensensschraube
B		binding-head screw	Klemmkopfschraube
T		truss-head screw	Flachrundschraube
F		flat-Phillister-head screw	Zylinderschraube
RF		Phillister-head screw	Linsenschraube
BV		brazer-head screw	Rundkopfschraube

Ref.	Shape Form	Description	Benennung
		SELF-TAPPING SCREWS	TREIBSCHRAUBEN
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
		SET SCREWS	GEWINDESTIFTE
SC		set screw	Gewindestift mit Schlitz
SC		hexagon-socket set screw	Gewindestift mit 6-Kant
		NUT	MUTTER
N		nut	Mutter
		WASHERS	SCHEIBEN
W		flat washer	Scheibe
SW		spring washer	Federring
LW		internal-tooth lock washer	Zahnscheibe (innen)
LW		external-tooth lock washer	Zahnscheibe (außen)
		RETAINING RINGS	RINGE
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