

## SERVICE SHEET

1973

### DC Alignment

All measurements made under no signal conditions with a battery potential of 9 V.

#### Quiescent Current of Output Stage

Connect a milliammeter in place of the wire link at -X- and adjust R 39 (500 Ω) for a quiescent current of 6.5 mA. Replace wire link.

#### DC Condition of IF Amplifier

Adjust R 22 (500 kΩ) so that a potential of 1.35 V is developed across R 25 (1,2 kΩ).

### FM-IF ALIGNMENT 10.7 MHz (FM button depressed)

Adjustment Sequence	Wobbulator coupled to	Visual Indicator connected to	Adjust
F 6 and F 5	MP 6	via probe and test network to MP 7	(a) fully detuned (b) for maximum and symmetry
F 4 and F 3	MP 3		(c) and (d) for maximum and symmetry
F 2	MP 2		(e) for maximum and symmetry
F 1	loosely coupled to emitter T 2		(f) for maximum and symmetry
Discriminator	MP 6		via 50 kΩ cable to AF output at b 3 (AM/FM slider)

Note: When aligning the discriminator the RF input should be kept as low as possible to avoid limiting in the IF amplifier.

### AM-IF ADJUSTMENT 460 kHz (MW button depressed)

Adjustment Sequence	Wobbulator coupled to	Visual Indicator connected to	Adjust
F 10	MP 8	via test probe to MP 7	(I) for maximum and symmetry
F 9 and F 8	MP 10		(II) and (III) for maximum and symmetry
F 7	MP 4		(IV) for maximum and symmetry

### AM OSCILLATOR AND AERIAL ALIGNMENT

Generator Range and Frequency	Oscillator	Aerial	Sensitivity	Oscillator Volts	Remarks
MW	560 kHz	(1) Max.	(3) Max.	18 μV	The generator must be loosely coupled to the ferrite aerial.
	1450 kHz	(2) Max.	(4) Max.	20 μV	
LW	145 kHz	(5) Max.	(6) Max.	20 μV	50 - 70 mV
	240 kHz		(7) Max.	15 μV	

### FM OSCILLATOR AND AERIAL ALIGNMENT

Generator Range and Frequency	Oscillator	Coupling	Oscillator volts at Emitter T 2	Remarks
88 MHz	(A) Max.	(C) Max.	70 - 55 mV	The output of the generator (Z <sub>0</sub> 60 Ω) should be connected directly to the telescopic aerial. The oscillator potential (measured in 60 Ω) at the aerial should not exceed 1.8 mV.
106 MHz	(B) Max.	(D) Max.		

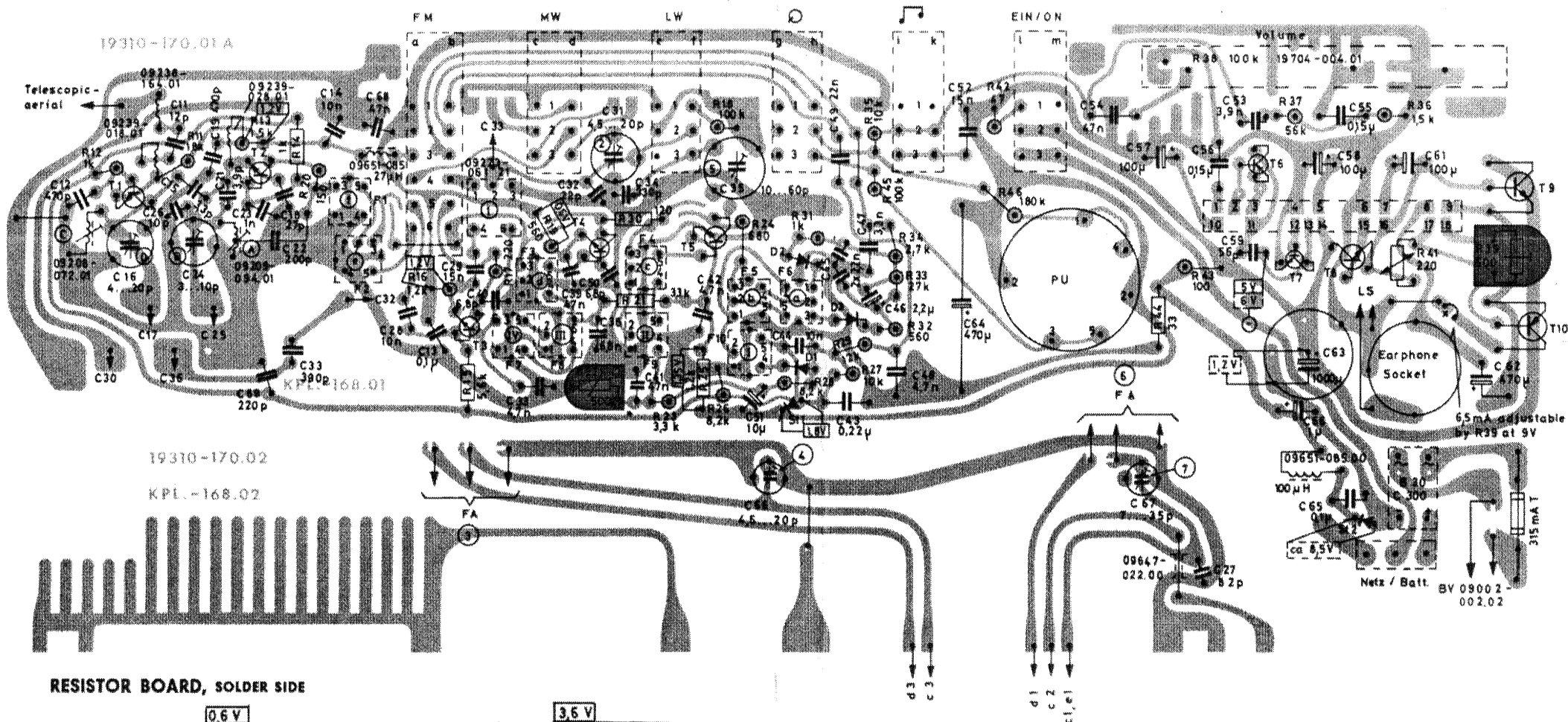
Please address all technical correspondence to GRUNDIG equipment to:

The Technical Department,  
Grundig (Great Britain) Ltd.,  
Newlands Park,  
Sydenham

London SE26 5NQ

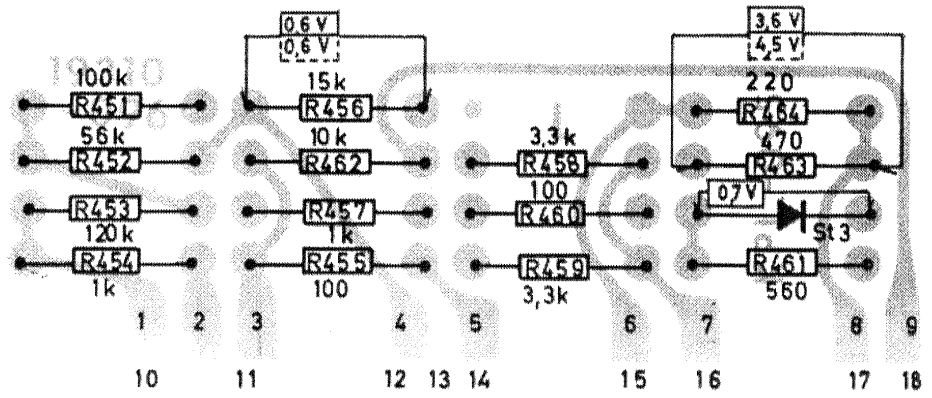
Telephone: 01 778 2211

IF-RF-AF-PRINTED BOARD, SOLDER SIDE

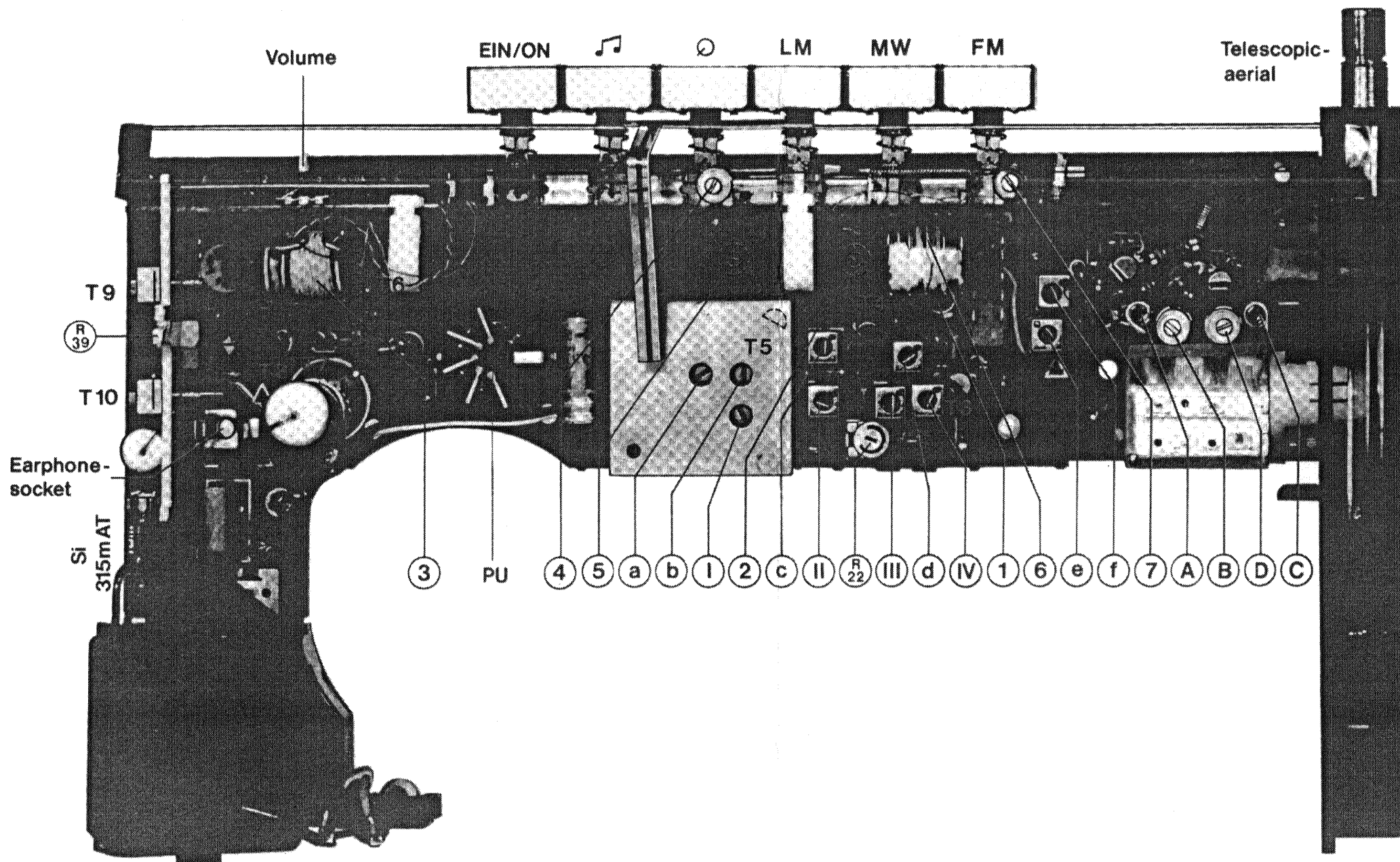


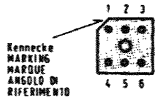
19310-170.02  
KPL-168.02

RESISTOR BOARD, SOLDER SIDE



# ALIGNMENT SCHEME





09223 -



F 1 - 10



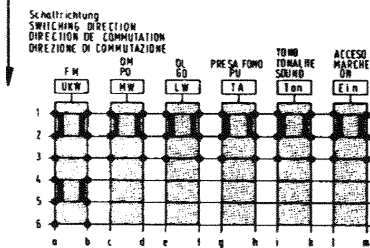
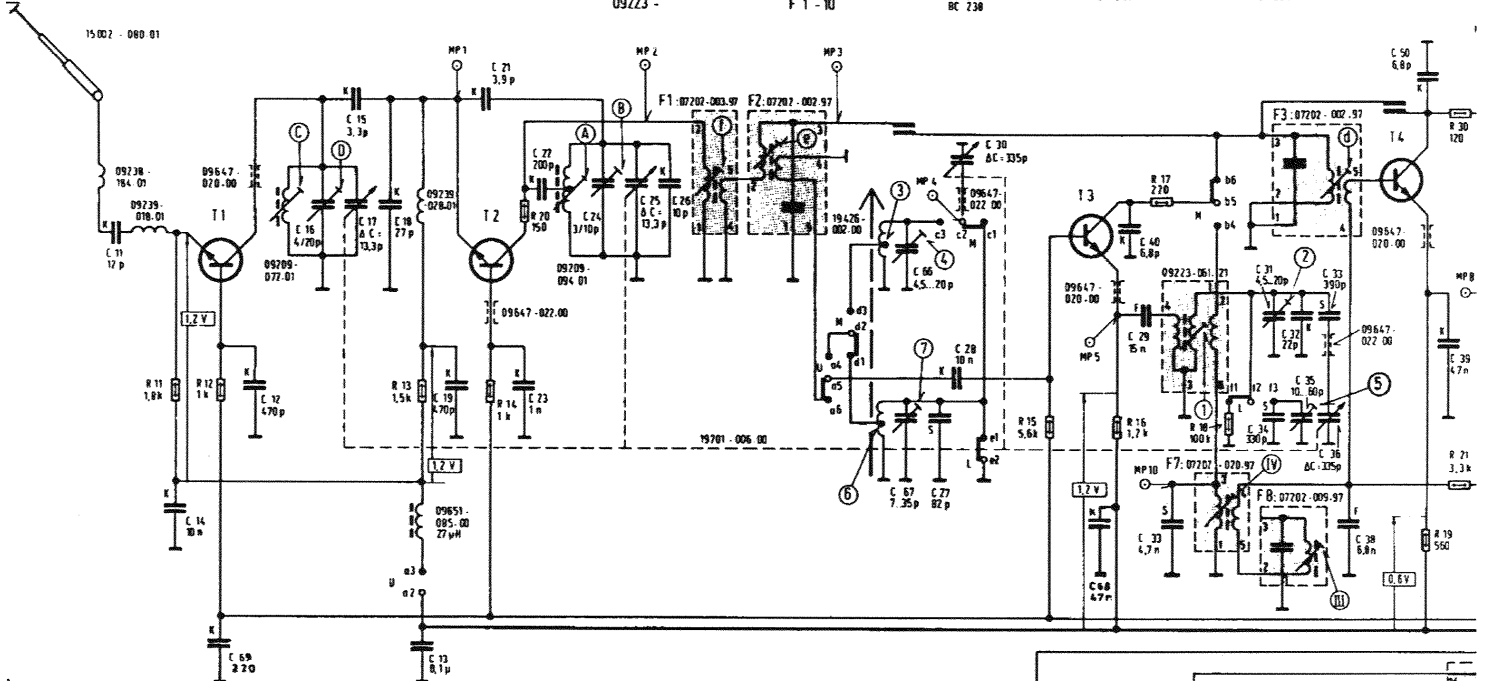
BF 314  
BF 309  
BF 238



BF 240  
BF 241



AC 187 K  
AC 188 K



Schaltichtung  
SWITCHING DIRECTION  
DIRECTION DE COMMUTATION  
DIREZIONE DI COMMUTAZIONE

Aggregat von unten gesehen  
AGGREGATE SEEN FROM BELOW  
AGGREGAT VU DE DESSOUS  
GRUPPO VISTO DA SOTTO

gezeichnete Stellung : Tasten in Ruhestellung  
POSITION SHOWN : KEYS IN NEUTRAL POSITION  
MONTRE EN POSITION : POUSSOIRS EN POSITION REPOS  
APPARECCHIO RAPPRESENTATO IN POSIZIONE SPENTA

Ferritstablenne kpl.  
FERRITE AERIAL  
ANTENNE FERRITE COMPL.  
ANTENNA DI FERRITA COMPL.

Widerstandsplatte kpl.  
RESISTOR BOARD  
PLAQUE DE RESISTANCE  
PIASTRA DI RESISTENZA

Schiebewiderstand 100 kΩ  
SLIDER RESISTOR  
RESISTANCE GLISSANT  
RESISTENZA A CURSORE

MF - ZF - NT - Platte  
MF - IF - AF - BOARD  
MF - FI - BF - PLAQUE  
AF - FI - BF - PIASTRA



Wellenbereiche :  
WAVE BANDS :  
GAMMES D'ONDES :  
GAMME D'ONDA :

LW - 60 - DE  
MW - PO - OM  
UKW - FM

Spannungen und Stromwerte gültig bei eingeschaltetem Drehknopf ohne Signal  
bei Batteriebetrieb 9V  
bei Netzbetrieb 240V~

VOLTAGE AND CURRENT VALUES ARE VALID WITH NO SIGNAL APPLIED AND CLOSED VARIABLE CAPACITOR  
ON BATTERY OPERATION 9V  
ON MAINS OPERATION 240V AC

LES VALEURS SONT VALABLES AVEC LE CONDENSATEUR VARIABLE ETANT FERME ET SANS SIGNAL D'ANTENNE  
EN FONCTIONNEMENT SUR PILES 9V  
EN FONCTIONNEMENT SUR SECTEUR 240 V~

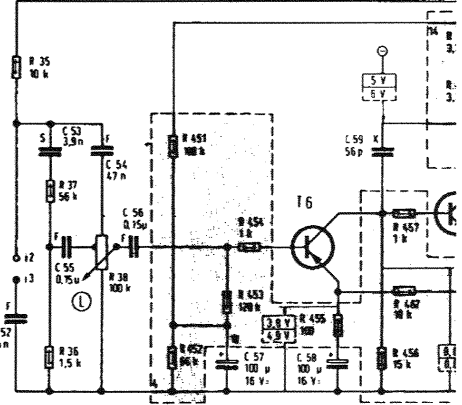
I VALORI DELLE CORRENTI SONO VALIDE CON ASSENZA DI SEGNALE E CONDENSATORE VARIABLE CHIUSO  
ALIMENTAZIONE DA BATTERIA 9V  
ALIMENTAZIONE DI RETE 240 V~

Änderungen vorbehalten !

ALTERATIONS RESERVED !

MODIFICATIONS RESERVEES !

CON RISERVA DI MODIFICA !



1	3	BF 314	0	1	AA 112
1	2	BF 241	0	2	AA 112
1	3	BF 241	0	3	AA 112
1	4	BF 241			
1	5	BF 240	S1	1	BZ 102/2V1
1	6	BC 309	S1	2	ZW 9.1
1	7	BC 238	S1	3	6 086
1	8	BC 238			
1	9	AC 187 K			
1	10	AC 188 K			

Leutst  
VOLUM  
PUISSA  
VOLUMI

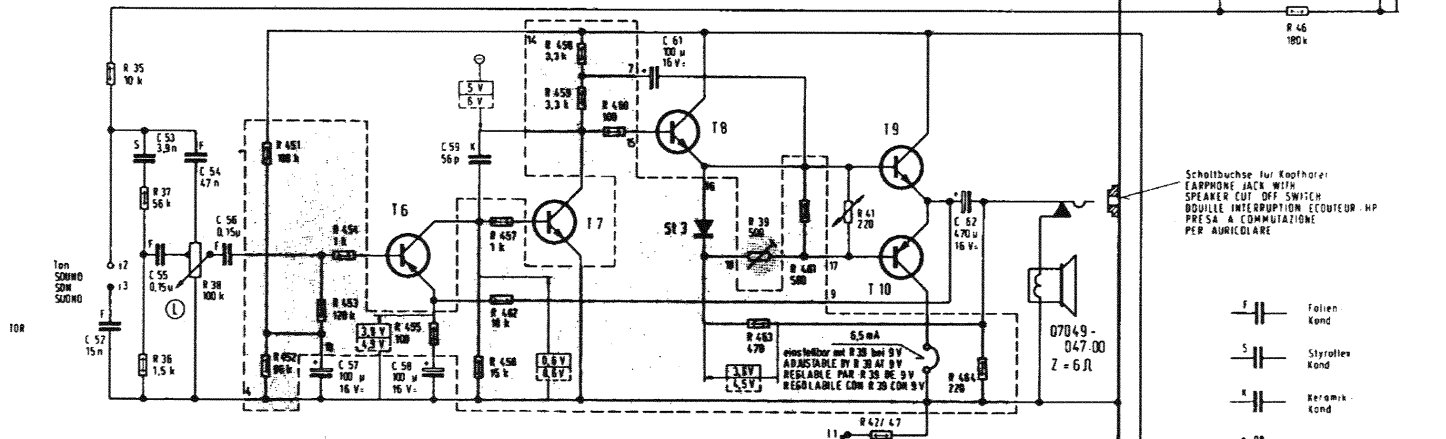
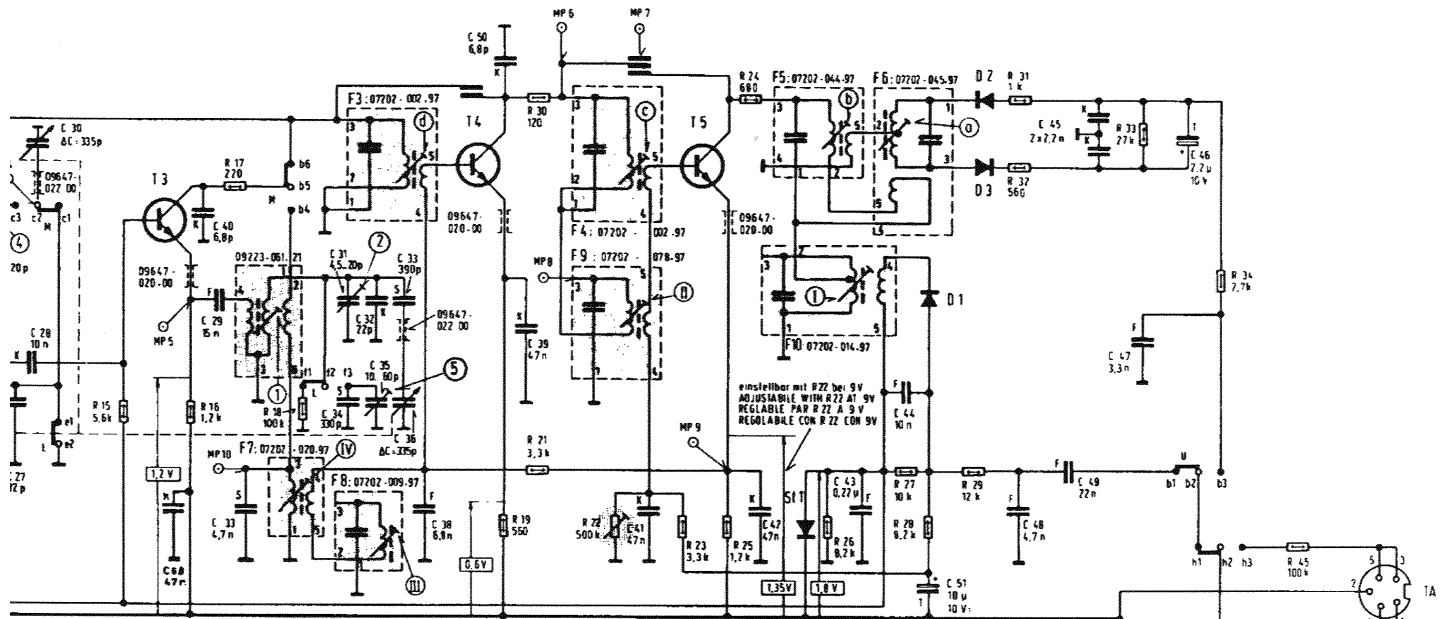
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BF 314  
BC 309  
BC 138

BF 240  
BF 241

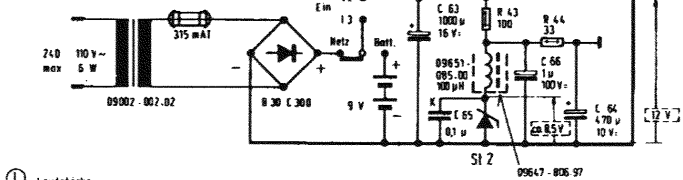
AC 187 K  
AC 188 K



Schaltbuchse für Kopfhörer  
EARMPHONE JACK WITH  
SPEAKER CUT OFF SWITCH  
BOUCLE INTERRUPTION ECOUTEUR HP  
PRESA A COMMUTAZIONE  
PER AURICOLARE

- F Folien Kond
- S Styrolen Kond
- K Keramik Kond
- \* Elko
- ∩ Ionentl Elko
- 1/8 W
- gedruckter Kondensator  
PRINTED CAPACITOR  
CONDENSATEUR IMPRIME  
CONDENSATORE STAMPATO

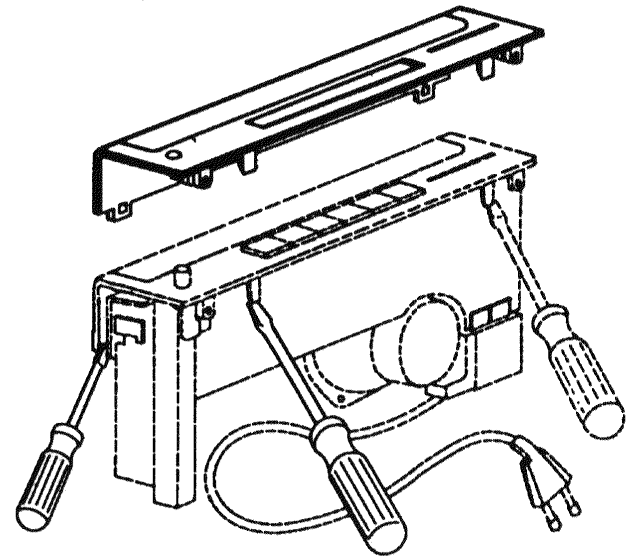
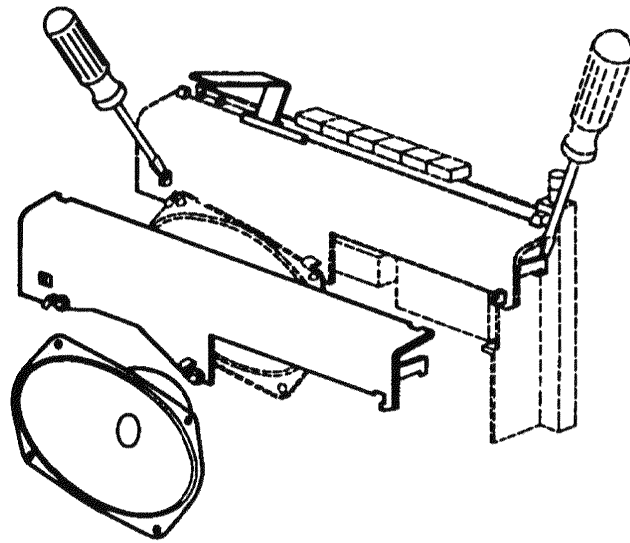
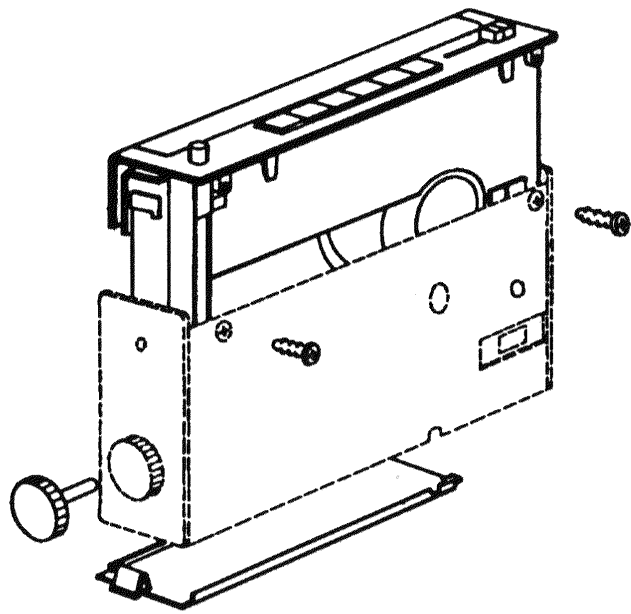
- |               |                   |
|---------------|-------------------|
| 1 1 BF 314    | D 1 AA 112        |
| 1 2 BF 241    | D 2 AA 112        |
| 1 3 BF 241    | D 3 AA 112        |
| 1 4 BF 241    |                   |
| 1 5 BF 240    | SI 1 BZ 102 / ZV1 |
| 1 6 BC 309    | SI 2 ZW 9,3       |
| 1 7 BC 238    | SI 3 G 088        |
| 1 8 BC 238    |                   |
| 1 9 AC 187 K  |                   |
| 1 10 AC 188 K |                   |

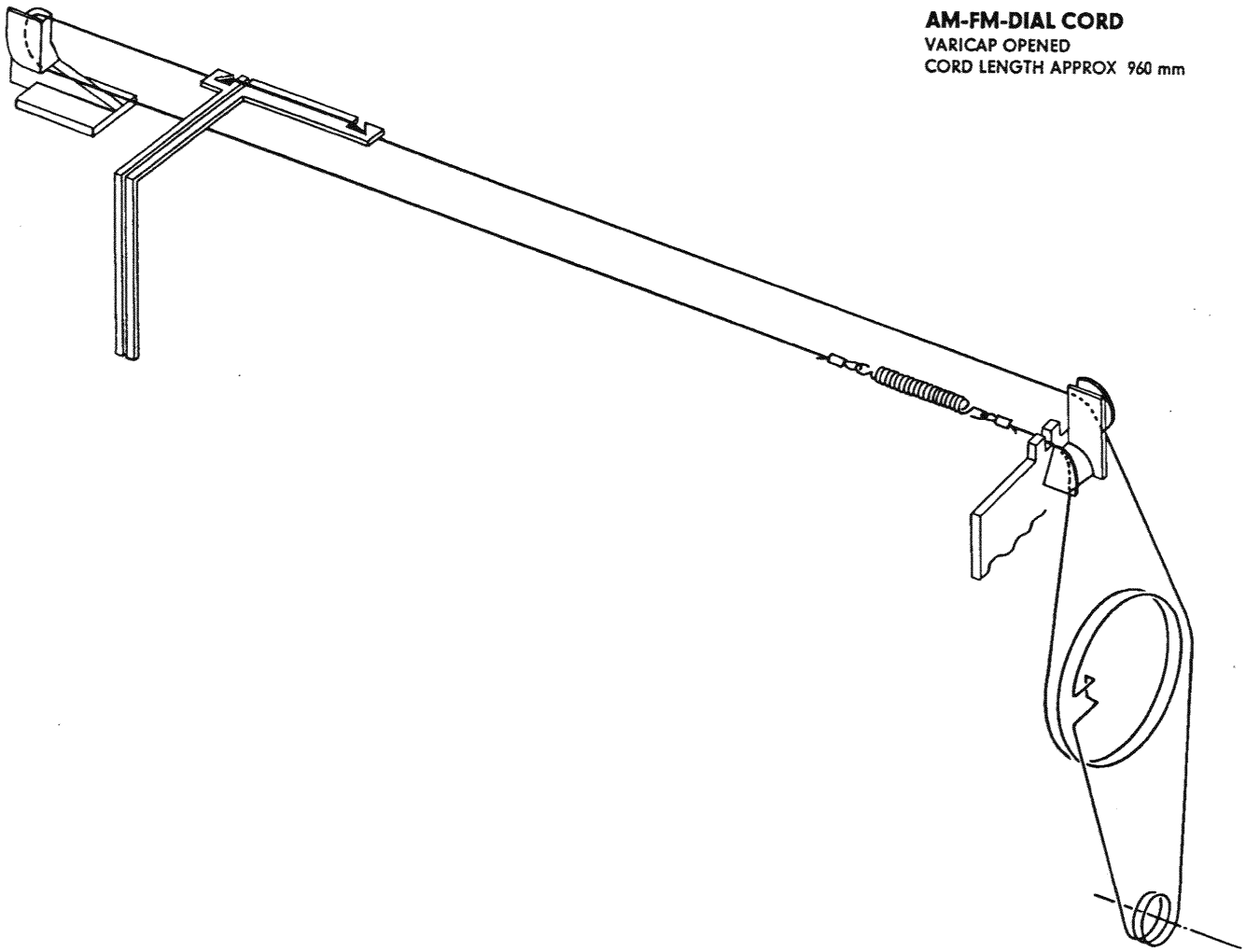


Ⓛ Lautstärke  
VOLUME  
PUISSANCE  
VOLUME SONORO

MODIFICATIONS RESERVEESI  
CON RISERVA DI MODIFICA I

27, 28, 30,	52,	53, 55, 6, 54, 40,	56, 25,	31, 32, 57, 34, 35,	33, 36,	38,	58,	59, 50, 39,	41, 61,	42,	43,	44,	63, 51, 65, 67,	48, 66, 49, 64, 45,	47,	48,	
15, 35,	36, 37, 38, 16,	17,	451, 452,	18,	453, 454,	455,	456, 457, 458, 462, 30, 21,	458, 459, 22, 460,	23,	25,	24, 39, 48, 3,	26,	41,	42, 27, 28,	29, 43, 46, 31, 32, 44,	33,	34,





**AM-FM-DIAL CORD**  
VARICAP OPENED  
CORD LENGTH APPROX 960 mm

## **Chassis Removal**

1. Remove bottom cover by depressing the retaining clip and take out the battery container (loosen snap connector strip)
2. Unscrew two screws on rear
3. Pull off tuning knob
4. Remove chassis by lifting upwards
5. Loosen loudspeaker (retaining clips)
6. Unlock scale covering
7. Take off scale (press away left retaining clip with screw driver)