

YACHT BOY 208

Please address all Technical Correspondence on
 Grundig Equipment to: **THE TECHNICAL DEPARTMENT,**
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 Sydenham, London, S.E.26 Telephone: 01-778 2211

CHASSIS REMOVAL

1. Remove battery lid and take out batteries.
2. Pull off Tuning Knob.
3. Remove 2 screws underneath cabinet and lift in an upward direction.
4. Push telescopic aerial up from the inside.
5. Remove 4 bronze chassis fixing screws, (2 each side).
6. Carefully lift out chassis, unsolder loudspeaker leads.

D.C. ALIGNMENT.

D.C. Adjustments to be carried out with a battery voltage of 7.5 V .

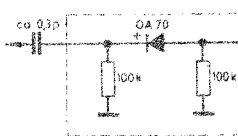
QUIESCENT CURRENT OF OUTPUT TRANSISTORS.

Open link at point X and connect a milliamperemeter in series. Adjust R 52 (500Ω) for 5.5 mA. Reconnect link.

SETTING - UP IF AMPLIFIERS.

Connect a DC Valve Voltmeter in parallel with R 23 and adjust pre-set R 28 for 1.3 V.

FM-IF ALIGNMENT 10.7 Mhz.

ALIGNMENT SEQUENCE	CONNECT MODULATOR TO.	CONNECTION OF OSCILLOSCOPE	ALIGNMENT POINTS
IF IV	IF III Point 6	Loose capacity coupling via crocodile clip and diode to IF IV Point 4. 	(b) fully detuned (a) max. and symmetrical.
IF III	IF II Point 10		(c) and (d) max. and symmetrical
IF II	IF I Point 5		(e) and (f) max. and symmetrical
IF I and IF circuit 9225 - 703	AM - Aerial.		(g) and (h) max. and symmetrical
Discriminator and AM - Rejection	IF III Point 6	Via 50k Ω cable to AF output. IF IV Point 8.	(b) Max. linearity at ±75 kc/s deviation. Adjust R2 for best AM Rejection at 50mV. Input signal to base of BF 185. T 6.
	AM Aerial (AM - Modulation)		if necessary re-align coil (b).

AM - IF ALIGNMENT 460 kHz.

ALIGNMENT SEQUENCE	CONNECT MODULATOR TO.	CONNECTION OF OSCILLOSCOPE	ALIGNMENTS POINTS
IF III	IF II Point 10	Loosely coupled to BF 185. IF III Point 12.	(I) max. and symmetrical.
IF II	IF I Point 5		(II) and (III) max. and sym.
IF I	AM - AERIAL		(IV) and (V) max. and symmetrical

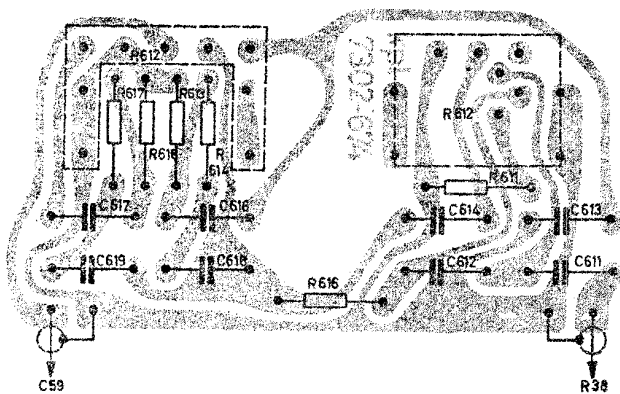
AM - OSCILLATOR AND AERIAL ALIGNMENT

POINTER & GENERATOR SETTING		OSCILLATOR	AERIAL	INPUT SENSITIVITY	OSCILLATOR VOLTAGE T3 BF 194	REMARKS
M W	560 k c/s	(1) max.	(3) max.	8 μ V	75 - 100 mV	For S.W. connect generator via 18 pF capacitor and disconnect telescopic aerial. For M.W & L.W connect generator to ferrite aerial by coupling coil.
	1450 k c/s	(2) max.	(4) max.	7 μ V		
L W	160 k c/s		(5) max.	14 μ V	90 - 100 mV	
	240 k c/s		(6) max.	12 μ V		
S W	6.1 M Hz	(7) max.	(8) max.	4 μ V	60 - 75 mV	
	7.2 M Hz		(9) max.			

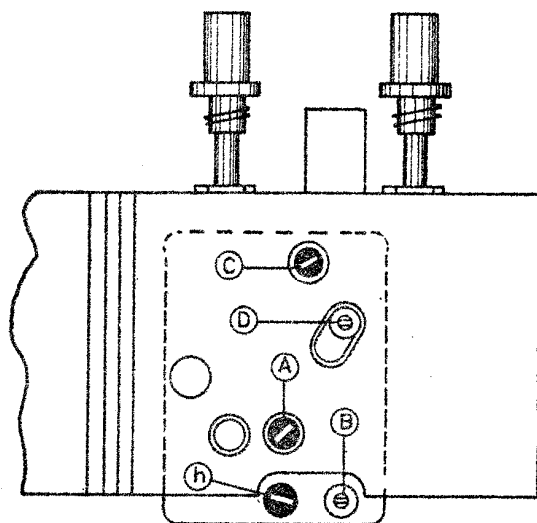
FH - OSCILLATOR AND AERIAL ALIGNMENT

POINTER & GENERATOR SETTING	OSCILLATOR	COUPLING CIRCUIT	OSCILLATOR VOLTAGE (EMITTER BF 184)	REMARKS
88 MHz	(A) max.	(C) max.	75 mV	Connect generator via 60 μ cable direct to mixer input.
106 MHz	(B) max.	(D) max.		

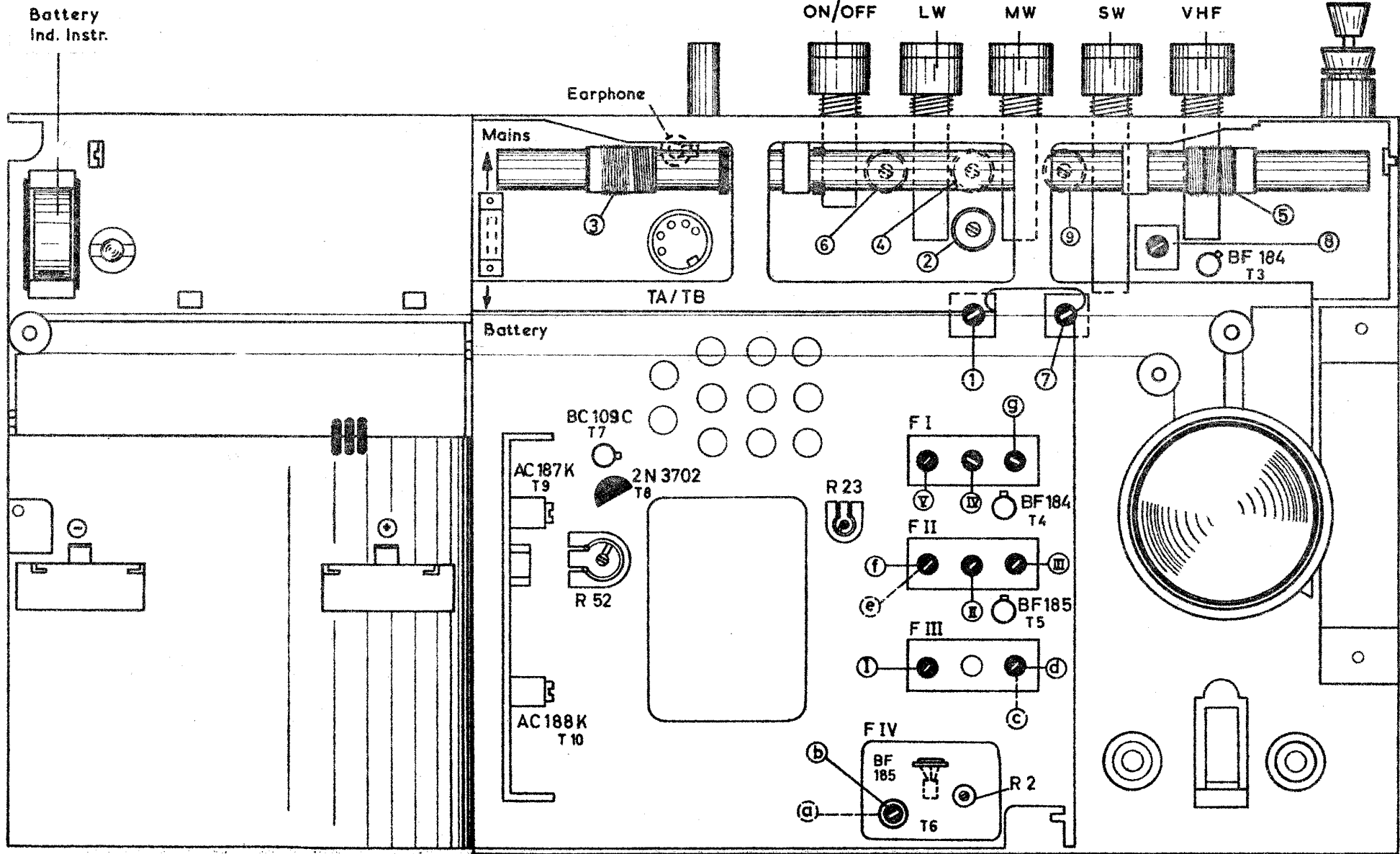
POTENTIOMETER (SOLDER SIDE VIEW) PRINTED CIRCUIT



VHF MIXER (UNDERSIDE VIEW)

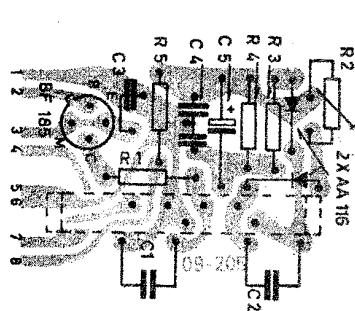


ALIGNMENT POINTS

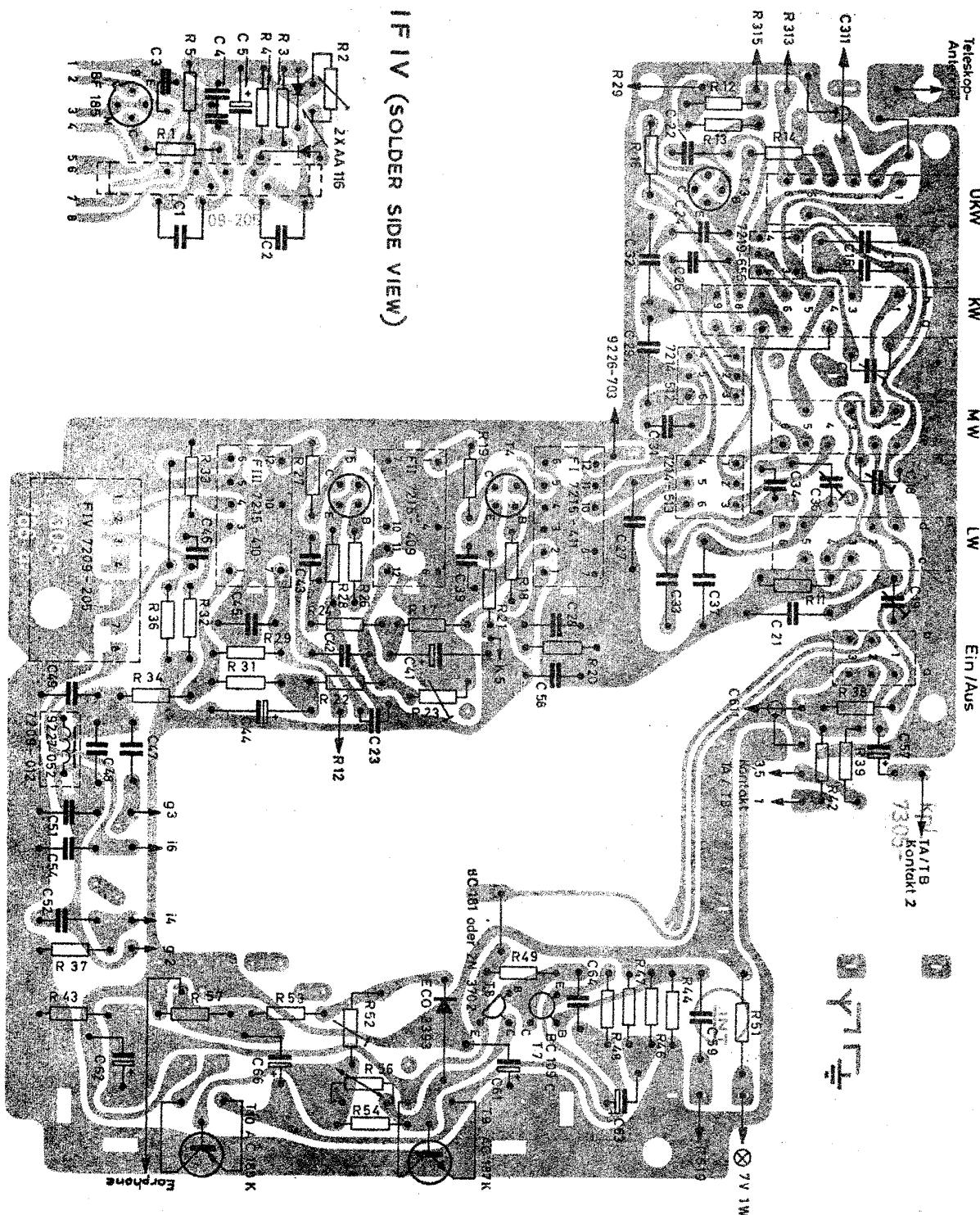


TECHNICAL SPECIFICATION.

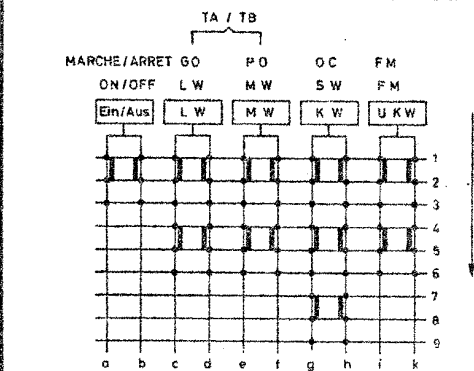
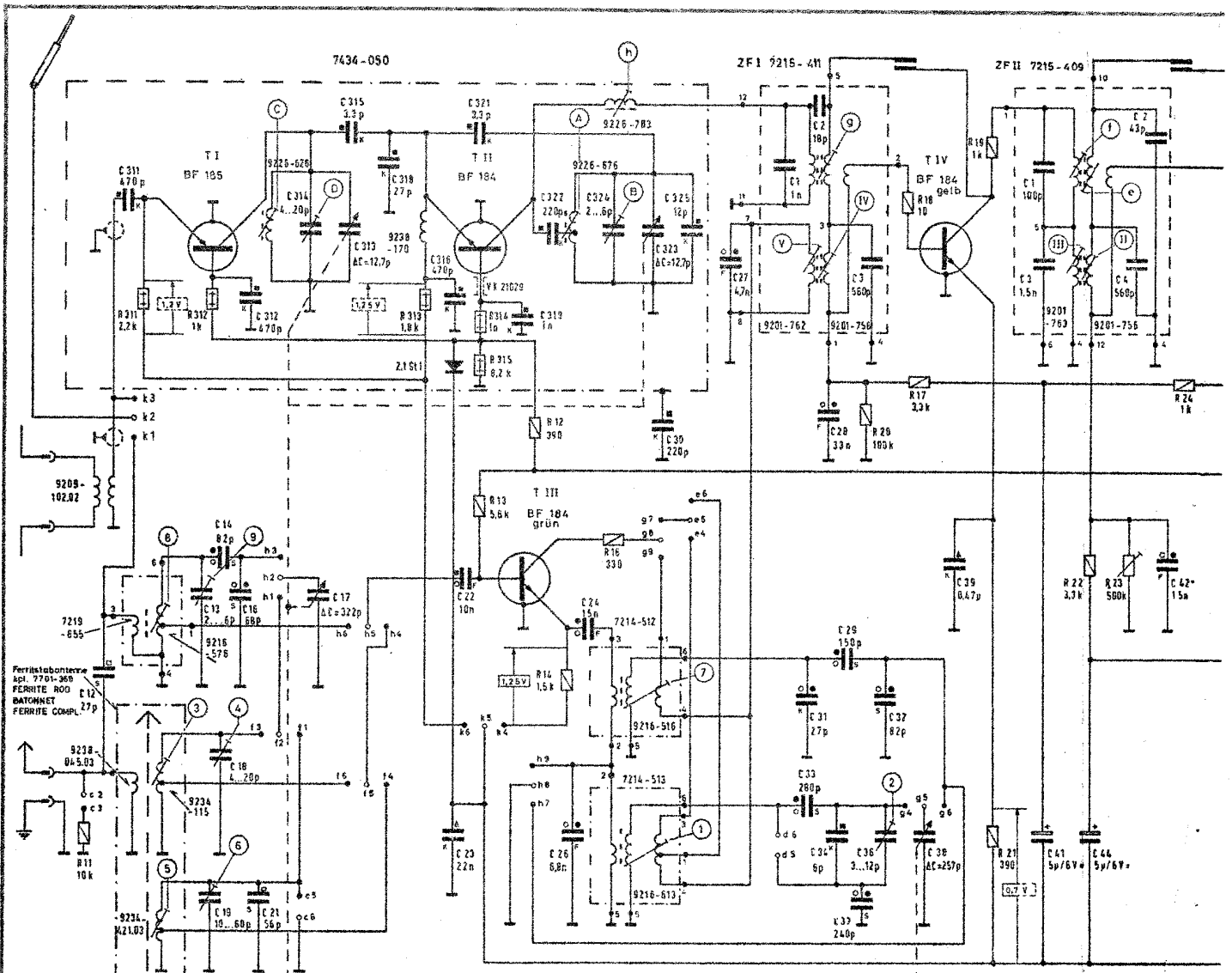
POWER OUTPUT : 2 W. QUIESCENT CURRENT : AM / FM - 22 mA .
 SENSITIVITY OF LF AMP. FOR 50 mV @ 800 Hz ; 620 mV collector ZN 3702
 SENSITIVITY OF AM IF @ 460 kHz ; IF II (point 10) - 5 mV , IF I (point 5) - 180 uV , Hot end of MW tuner - 6 uV .
 SENSITIVITY OF FM IF AT 10.7 MHz WITH 40 kHz DEV. : IF III (point 6) - 6 mV . IF II (point 10) 350 uV . IF I (point 5) 20 uV .
 SENSITIVITY OF MIXER (high side of tuner) ; LW 160 kHz - 14uV MW 560 kHz - 8 uV SW 6.1 MHz - 4 uV .
 SENSITIVITY OF SW INPUT VIA 18pF cap. TO TELESCOPIC AERIAL : 6.1 MHz - 1 uV .
 OSC. VOLTAGE AT EMITTER OF AM MIXER : LW 90 - 100 mV , MW 75 - 100 mV , SW 60 - 75 mV . SENSITIVITY OF FM INPUT VIA 60 u
 88 MHz. - 0.3 uV (1:25) . FM-OSC. VOLT. measured at EMITTER OF MIXER - 75mV . THE OSC. STAGE MUST FUNCTION AT AN HT VOLT. OF 4.5 V .



IF IV (SOLDER SIDE VIEW)



PRINTED CIRCUIT (SOLDER SIDE VIEW)



Wellenbereiche
WAVE BANDS
GAMMES D'ONDES

SWITCHING DIRECTION
SENS DE COMMUTATION

NF - HF PLATTE
AF - RF PRINTED BOARD
BF - HF PLATINE
7305-140

NF Drossel
AF CHOKE 7209-012
BF SELF

Mischteil
MIXER STAGE
MELANGEUR

MW - LW Oszillator
MW - LW OSCILLATOR
PO - GO OSCILLATEUR

KW Oszillator
SW OSCILLATOR
OC OSCILLATEUR

Änderungen vorbehalten

RIGHT FOR ALTERATIONS RESERVED

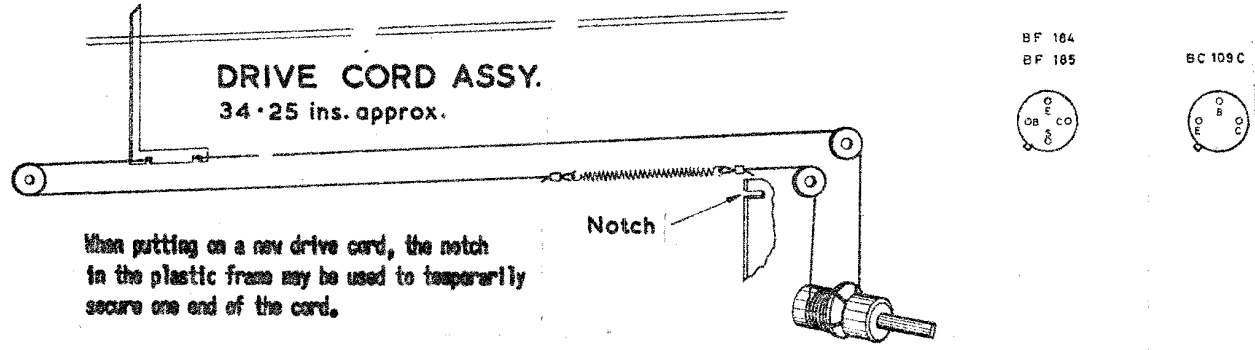
MODIFICATIONS RÉSERVÉES

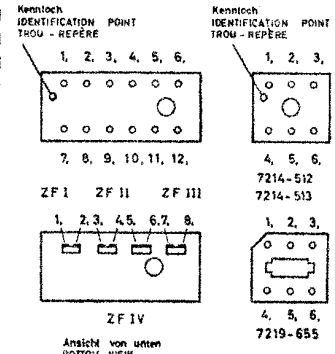
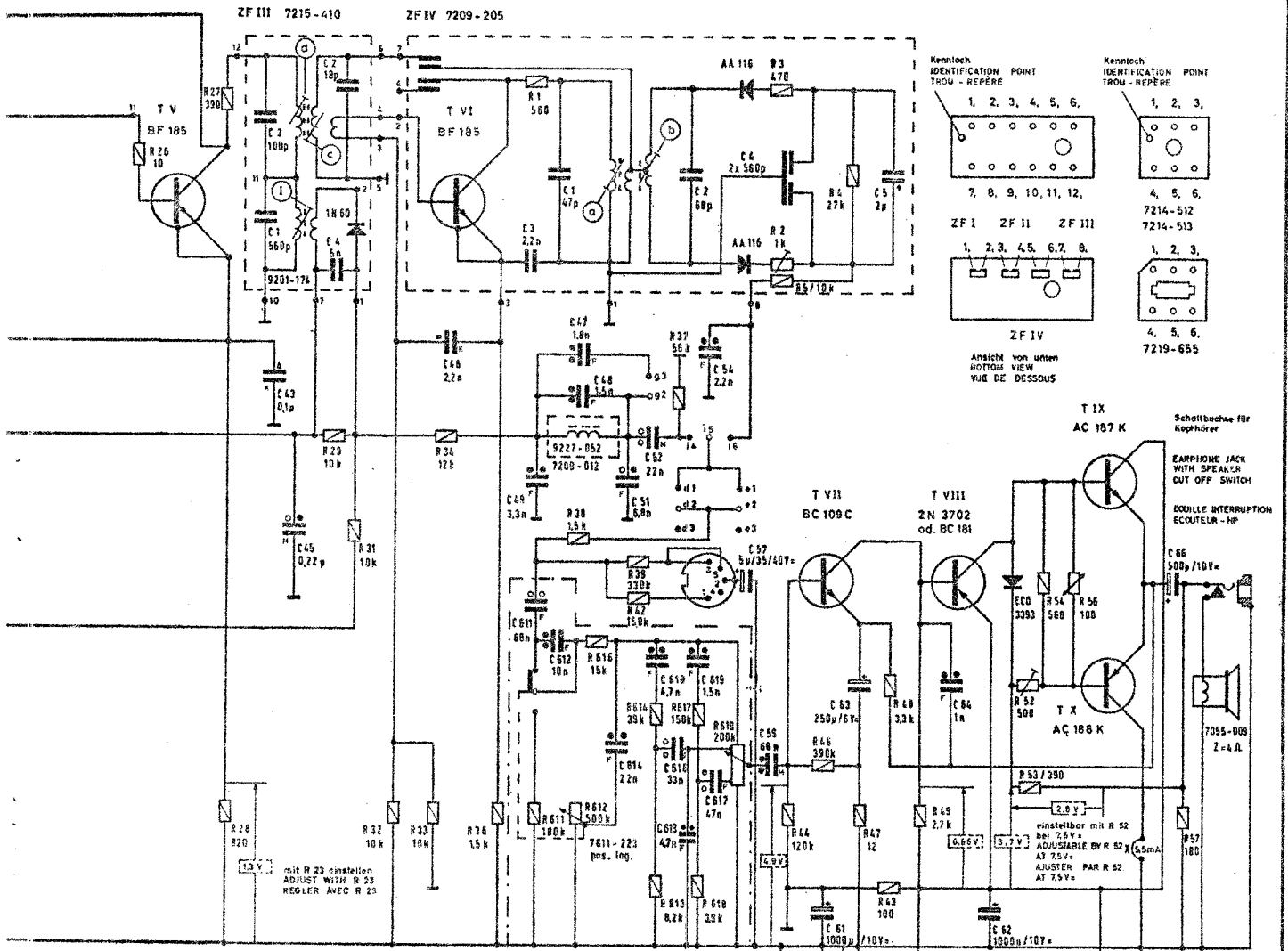
KW Vorkreis
SW INPUT CIRCUIT 7219-655
OC CIRCUIT D'ENTRÉE

Ferritstabantenne kpl. 7701-369
FERRITE ROD
BATONNET FERRITE COMPL.

gezeichnete Stellung Gerät „Aus“
SHOWN IN „OFF“ POSITION
MONTRÉ EN POS. „ARRÊT“

C:	12, 211,	13, 18, 16, 312, 310,	17, 313,	20,	316, 321,	219, 322,	324,	323,	325,	27,	23, 34, 25, 36, 32,	29, 38,	41,	40,	
R:	21, 311,	317,	315,	314,	13,	12,	26,	25,	16,	30,	31, 24, 27,	26,	17, 18,	19, 21,	22, 23,





Spannungen mit Grundig Röhrenvoltmeter auf den Meßbereichen 10/3/1 bei 7,5V= Batteriespannung gemessen. Spannungs- und Stromwerte gültig bei eingedrehtem Drehko ohne Signal

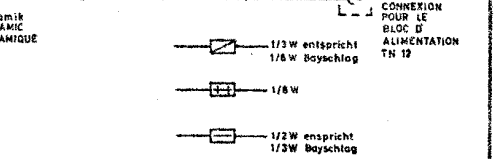
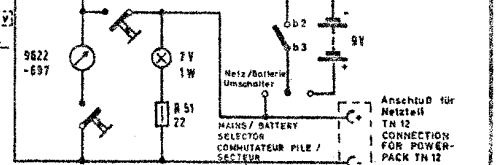
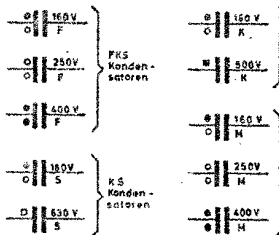
VOLTAGES MEASURED WITH GRUNDIG VTVM AT 7,5V= MEASURING VALUES-VALID WITHOUT SIGNAL TUNING CONDENSER TURNED IN

TENSIONS DE SERVICE MEASUREES AVEC GRUNDIG VOLTMETRE A LAMPE UNIVERSELLE A 7,5V = VALEUR. SONT VALABLES SANS SIGNAL CONDENSATEUR VARIABLE FERME

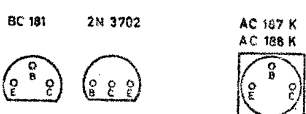
Gedruckter Kondensator
 PRINTED CAPACITOR
 CONDENSATEUR IMPRIMÉ

NF - Reglerplatte kpl. 7302- 085
 NF - REGULATING PLATE
 NF - PLAQUE DU REGULATEUR

R 612 = 7811-223 Kenn-Nr. 1223
 R 619 = 7811-222 Kenn-Nr. 1222



ZF III: 1, 3, 2, 4,	ZF IV: 1, 2, 3, 4, 5,
42, 43, 45,	44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,
24, 26, 27, 28,	29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,



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