

YACHT BOY 209

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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 .

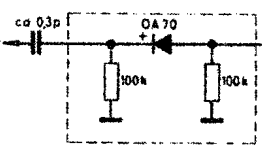
QUIESCENT CURRENT OF OUTPUT TRANSISTORS.

Open link at point X and connect a milliamperemeter in series. Adjust R 52 (500 Ω) 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 WOBBULATOR 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 925 - 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 R 3 for best AM Rejection at 50mV. Input signal to base of BF 241 T-6.
	AM Aerial (AM - Modulation)		If necessary re-align coil (b).

AM - IF ALIGNMENT 450 KHz.

ALIGNMENT SEQUENCE	CONNECT WOBBULATOR TO.	CONNECTION OF OSCILLOSCOPE	ALIGNMENTS POINTS
IF III	IF II Point 10	Loosely coupled to BF 240 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

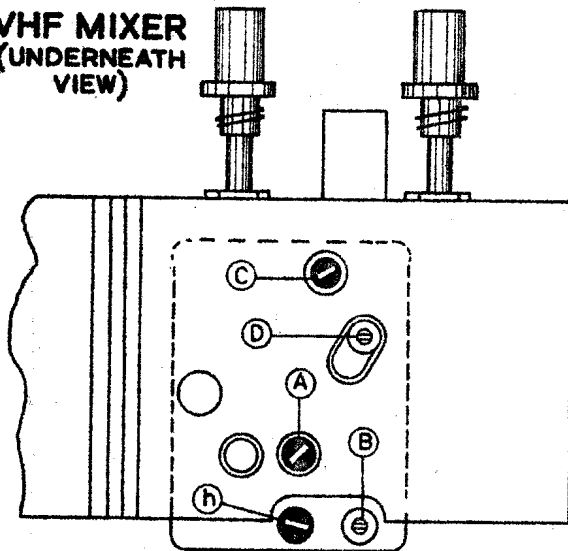
AM - OSCILLATOR AND AERIAL ALIGNMENT

POINTER & GENERATOR SETTING		OSCILLATOR	AERIAL	INPUTS SENSITIVITY	OSCILLATOR VOLTAGE T3 BF 104	REMARKS
M W	560 k Hz	(1) Max.	(3) Max.	28 uV	40 - 60 mV	For S.W. Connect generator via 18 pF capacitor and disconnect telescopic aerial. For M.W. connect generator to ferrite aerial by coupling coil.
	1450 k Hz	(2) Max.	(4) Max.	25 uV		
L W	160 k Hz	(5) Max.	(6) Max.	30 uV	40 - 60 mV	
	240 k Hz		(7) Max.	25 uV		
S W	6.1 k Hz	(8) Max.	(9) Max.	4 uV	60 - 75 mV	
	7.2 k Hz		(10) Max.			

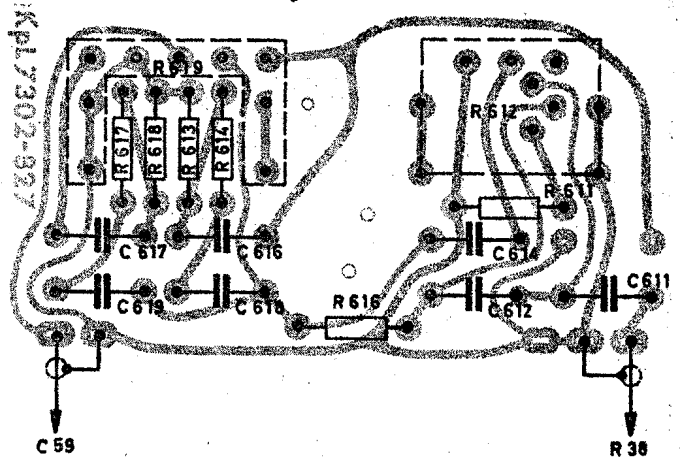
FM - OSCILLATOR AND AERIAL ALIGNMENT

POINTER & GENERATOR SETTING	OSCILLATOR	COUPLING CIRCUIT	OSCILLATOR VOLTAGE (EMITTER BF 104)	REMARKS
88 MHz.	(A) Max.	(C) Max.	75 mV	Connect generator via 60 Ω cable direct to mixer input.
106 MHz.	(B) Max.	(D) Max.		

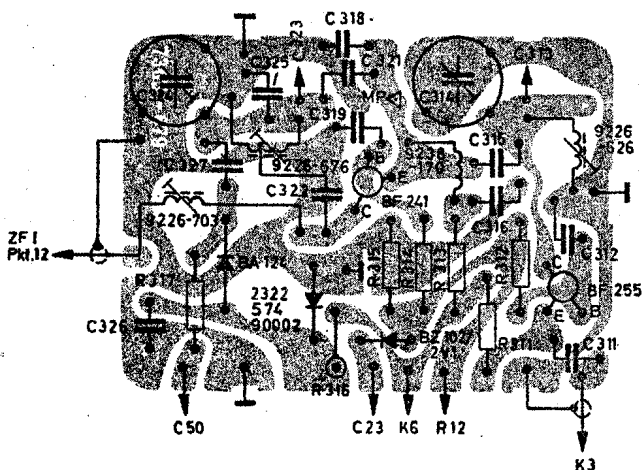
VHF MIXER (UNDERNEATH VIEW)



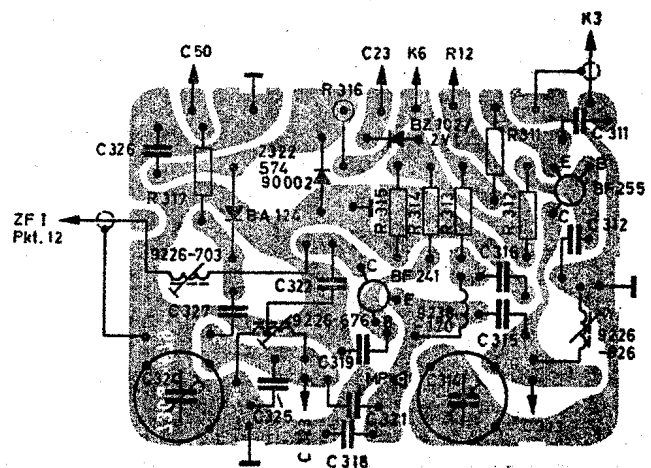
POTENTIOMETER PRINTED CIRCUIT (SOLDER SIDE VIEW)



VHF MIXER (SOLDER SIDE VIEW)

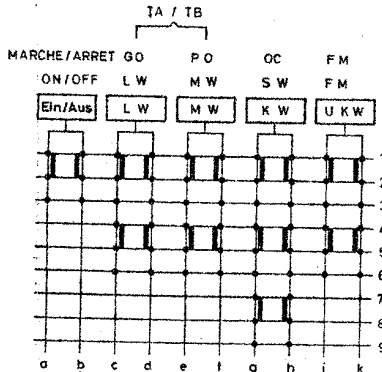
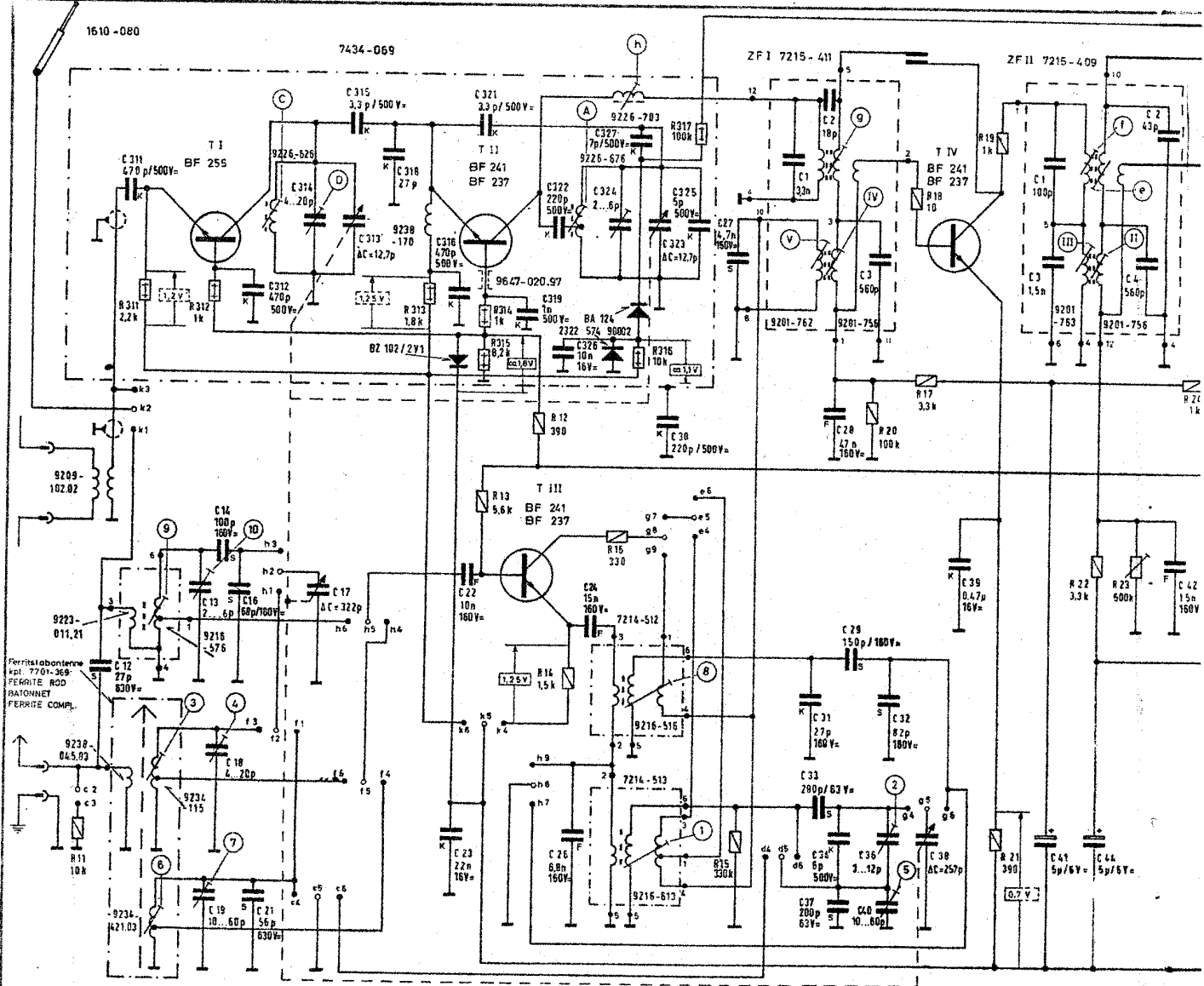


VHF MIXER (COMPONENT SIDE)



1610-080

7434-069



Schalttrichtung
SWITCHING DIRECTION
SENS DE COMMUTATION

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

NF - Drossel 7209-012
AF - CHOKE
BF SELF

Wellenbereiche
WAVE BANDS
GAMMES D'ONDES

LW - GO 145 ... 260 kHz / kc
MW - PO 510 ... 1620 kHz / kc
KW - SW OC 5,85 ... 7,4 MHz / Mc
UKW - FM 87 108 MHz / Mc

Mischteil
MIXER STAGE 7434 -069
MELANGEUR

MW - LW Oszillator
MW - LW OSCILLATOR 7214 -513
PO - GO OSCILLATEUR

KW Oszillator
SW OSCILLATOR 7214 -512
OC OSCILLATEUR

Änderungen vorbehalten
RIGHT FOR ALTERATIONS RESERVED
MODIFICATIONS RÉSERVÉES

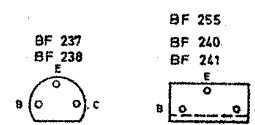
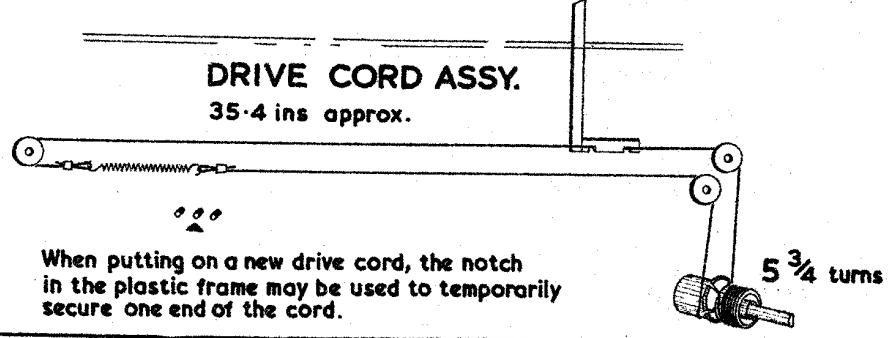
KW Vorkreis
SW INPUT CIRCUIT 9223 - 011,21
OC CIRCUIT D'ENTRÉE

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

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

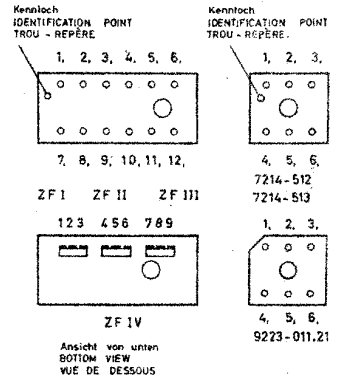
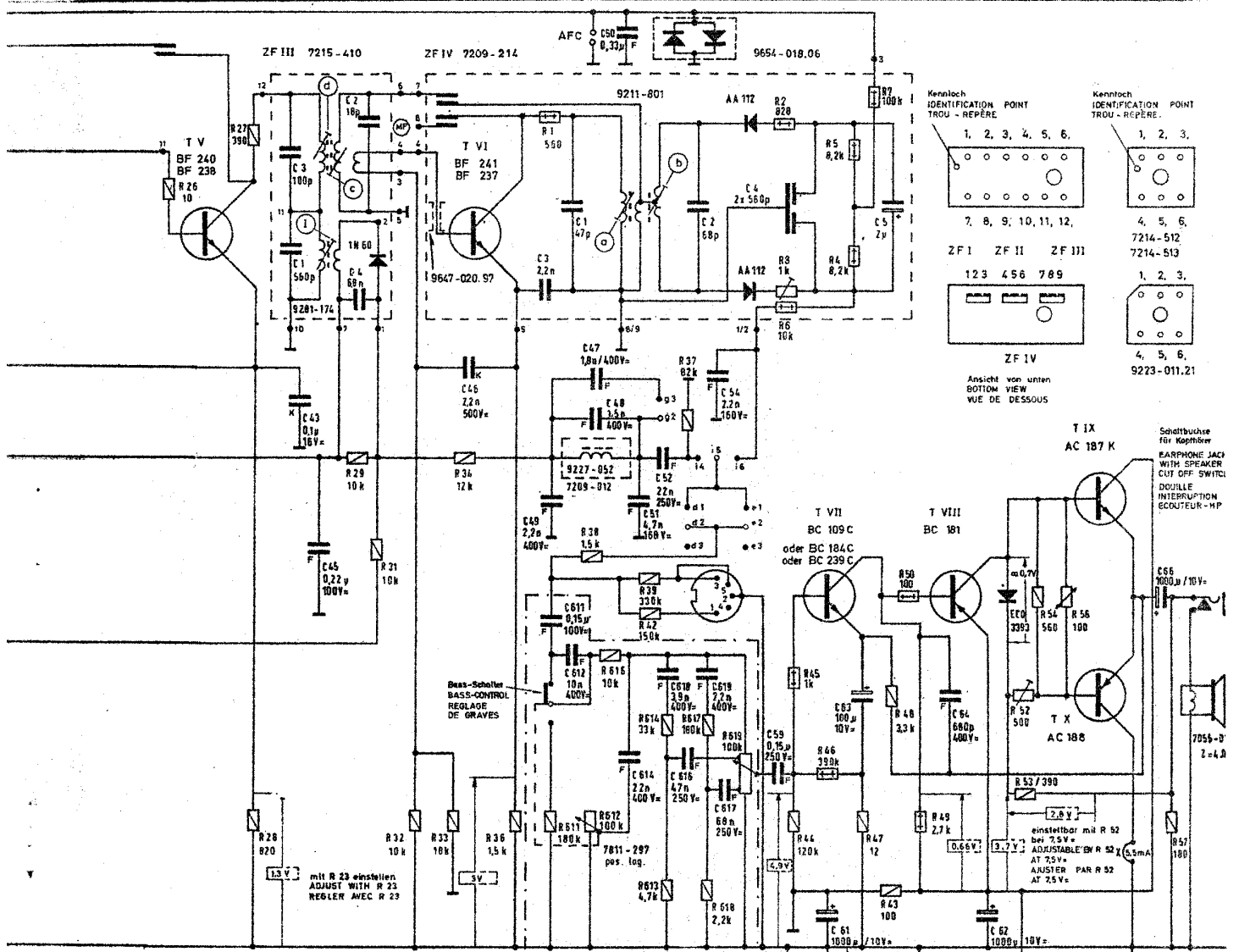
C:	92, 311, 13, 19, 16, 312, 14, 18, 21, 17, 303, 314, 318, 316, 321, 319, 322, 324, 326, 323, 327, 325, 27, 38, 34, 29, 36, 32, 39, 39, 41, 44
R:	11, 311, 312, 313, 314, 13, 12, 14, 16, 316, 317, 15, 20, 17, 18, 19, 21, 22, 23

DRIVE CORD ASSY. 35-4 ins approx.



When putting on a new drive cord, the notch in the plastic frame may be used to temporarily secure one end of the cord.

5 3/4 turns



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

MW UKW

VOLTAGES MEASURED WITH GRUNDIG VTVM AT 7.5V= MEASURING VALUES - VALID WITHOUT SIGNAL TUNING CONDENSER TURNED IN

MW FM

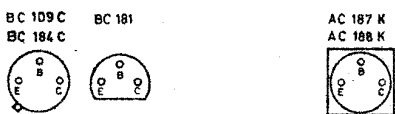
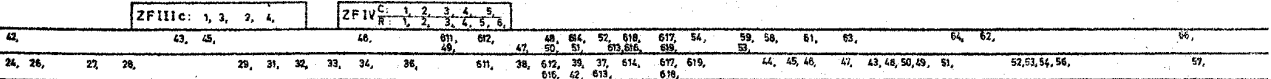
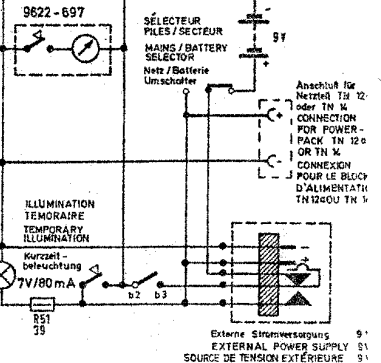
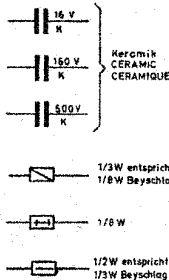
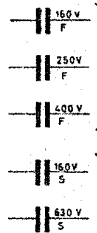
TENSIONS DE SERVICE MEASUREES AVEC GRUNDIG VOLTMETRE A LAMPE UNIVERSELLE A 7.5V = VALEURS SONT VALABLES SANS SIGNAL CONDENSATEUR VARIABLE FERME

PO FM

Gedruckter Kondensator
 PRINTED CAPACITOR
 CONDENSATEUR IMPRIMÉ

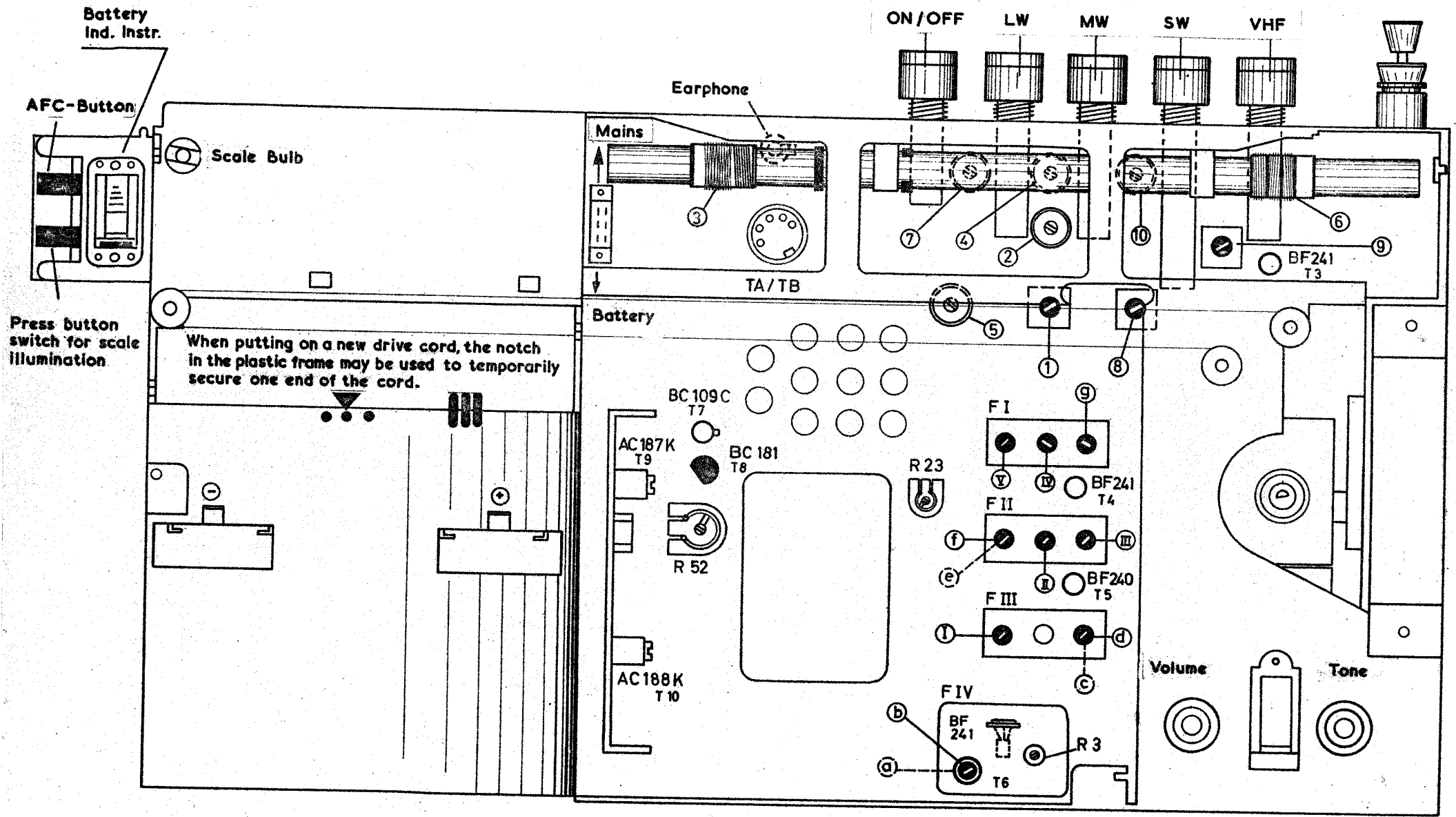
NF - Reglerplatte kpl. 7302-143
 NF - REGULATING PLATE
 NF - PLAQUE DU REGULATEUR

R 612 = 7811-297 Kenn-Nr. 1297
 R 619 = 7811-296 Kenn-Nr. 1296



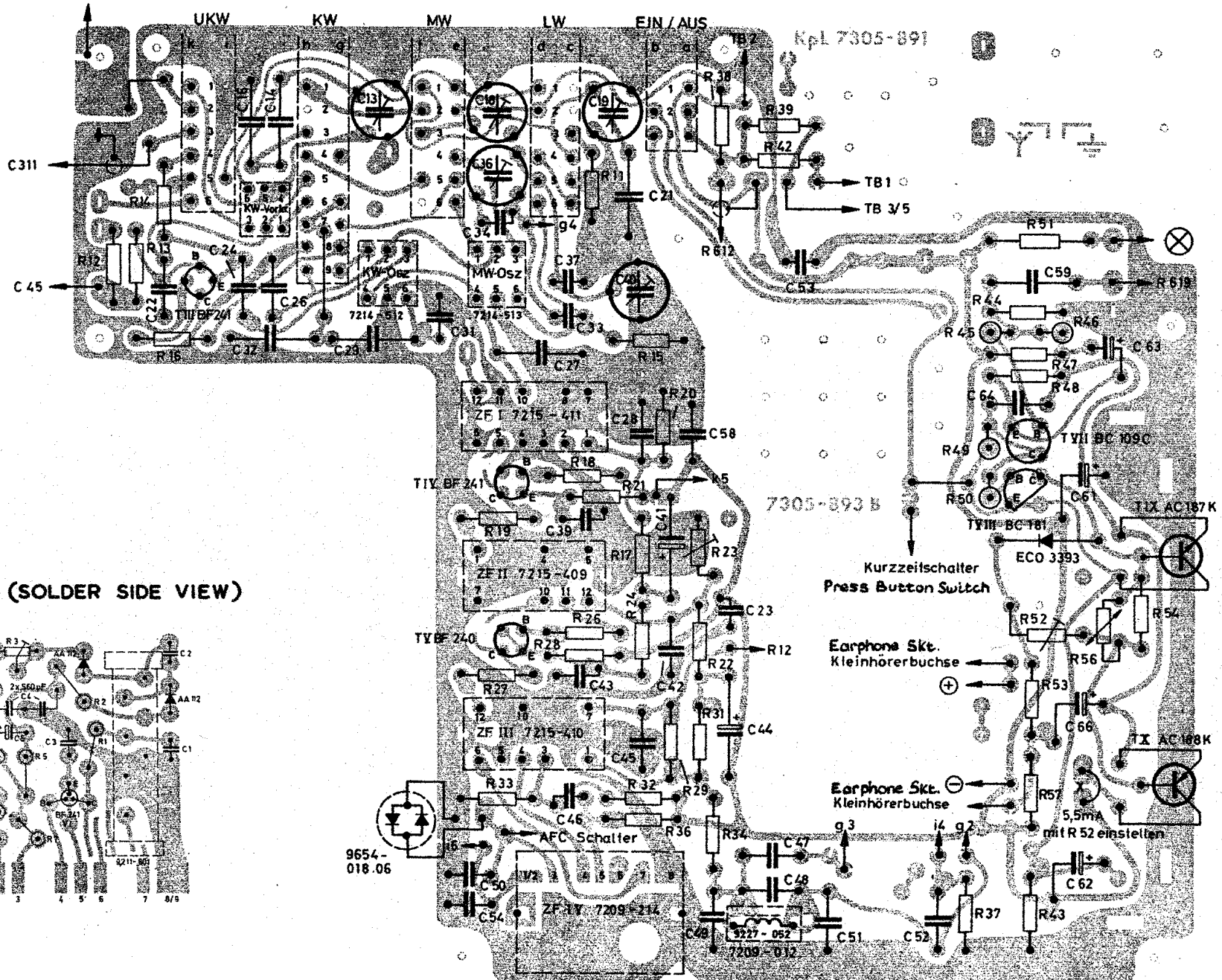
Yacht-Boy 209
(14-1610-8141)

ALIGNMENT POINTS



PRINTED CIRCUIT (SOLDER SIDE VIEW)

Telescopic Aerial
Teleskopantenne



IF IV (SOLDER SIDE VIEW)

