

# TRANSIST 208

Please address all Technical Correspondence on Grundig Equipment to :—

THE TECHNICAL DEPARTMENT, GRUNDIG (GREAT BRITAIN) LTD.

Newlands Park, Sydenham, London, S.E.26 - Telephone : 01-778 2211

## ALIGNMENT INSTRUCTIONS

### CHASSIS REMOVAL

- 1 Remove Batteries.
- 2 Release back cover by removing two screws on right and left - hand sides.
- 3 Pull - out chassis with back cover and unsolder loudspeaker.

### DC ALIGNMENT

DC adjustments to be carried out with a battery voltage of 5 V.

#### QUIESCENT CURRENT OF OUTPUT TRANSISTORS

Vol. control to minimum and MW button depressed.

Open link at point X and connect a milliamperes meter in series. Adjust R 52 ( 2k $\Omega$  ) for 3.5 mA.

Re-connect link.

#### SETTING - UP IF AMPLIFIERS.

Connect a DC valve voltmeter in parallel with R 28 and adjust pre-set R 26 for 0.6 V.

### FH - IF ALIGNMENT 10.7 MHz.

ALIGNMENT SEQUENCE	CONNECT WOBULATOR TO	CONNECTION OF OSCILLOSCOPE	ALIGNMENT POINT
IF $\overline{VI}$ and IF $\overline{V}$	Collector of T $\overline{IV}$ AF 137	Loose capacity coupling via crocodile clip and diode to T $\overline{V}$ ( AF 138 ).  	( a ) detuned ( b ) Max. and symmetrical.
IF $\overline{IV}$	Collector of T $\overline{III}$ AF 137		( c ) Max. and symmetrical.
IF $\overline{II}$	Collector of T $\overline{II}$ AF 264		( d ) Max. and symmetrical.
IF $\overline{I}$	Mixer Input		( e ) Max. and symmetrical.
Discriminator and AM Rejection.	Collector of T $\overline{III}$ AF 137		Via 50k $\Omega$ cable to AF Output. Contact b 3 .
	Mixer Input. ( AM Modulation )	if necessary re - align ( a )	

AM - IF ALIGNMENT 460 kHz.

ALIGNMENT SEQUENCE	CONNECT WOBBULATOR TO	CONNECTION OF OSCILLATORSCOPE	ALIGNMENT POINT
IF VIII	Collector of T IV AF 137	Loosely coupled via 50 Ω cable to collector of T V AF 136	( 1 ) Max. and symmetrical.
IF V	Collector of T III AF 137		( II ) Max. and symmetrical.
IF III	Hot end of Hi - aerial circuit.		( III ) Max. and symmetrical.

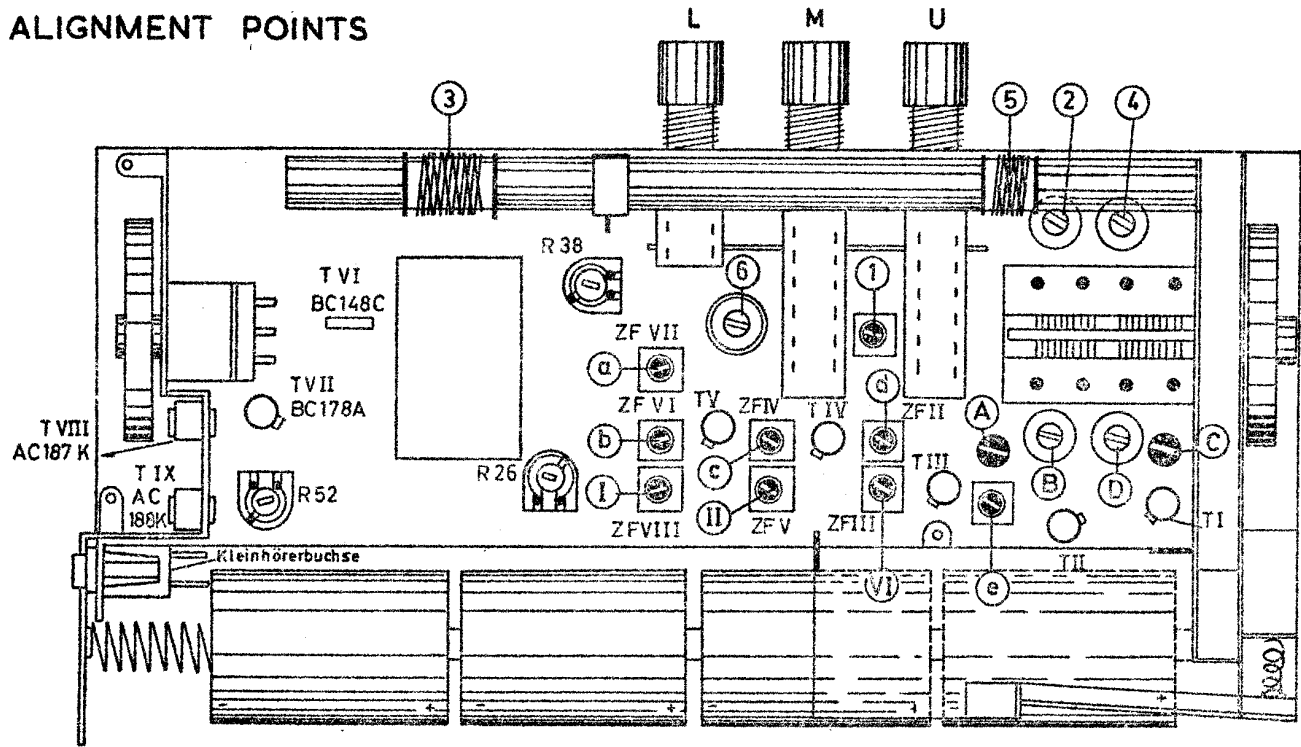
FM - OSCILLATOR AND AERIAL ALIGNMENT.

POINTER AND GENERATOR SETTING	OSCILLATOR	AERIAL	INPUT SENSITIVITY	OSC. VOLTAGE	REMARKS
M W	900 k Hz	( 3 ) Max.	30 μV	90 - 120 mV	For L W and M W alignment feed the signal via loop to ferrite aerial.
	1450 k Hz	( 2 ) Max.	22 μV		
L W	160 k Hz	( 5 ) Max.	24 μV	80 - 120 mV	
	240 k Hz	( 5 ) Max.	16 μV		

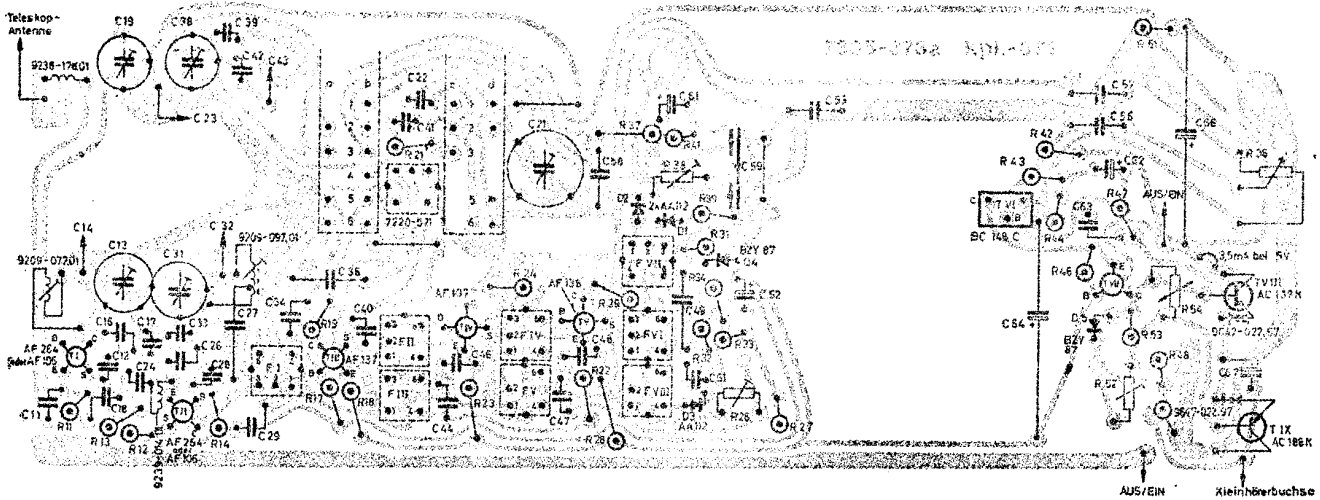
FM - OSCILLATOR, RF AND AERIAL ALIGNMENT.

POINTER AND GENERATOR SETTING	OSCILLATOR	COUPLING CIRCUIT	OSC. VOLTAGE EMITTER	REMARKS
88 M Hz	( A ) Max	( C ) Max	50 - 70 mV	Oscillator unsymmetrically coupled via 60 Ω resistor to Telescopic Aerial connection.
105 M Hz	( D ) Max	( D ) Max		

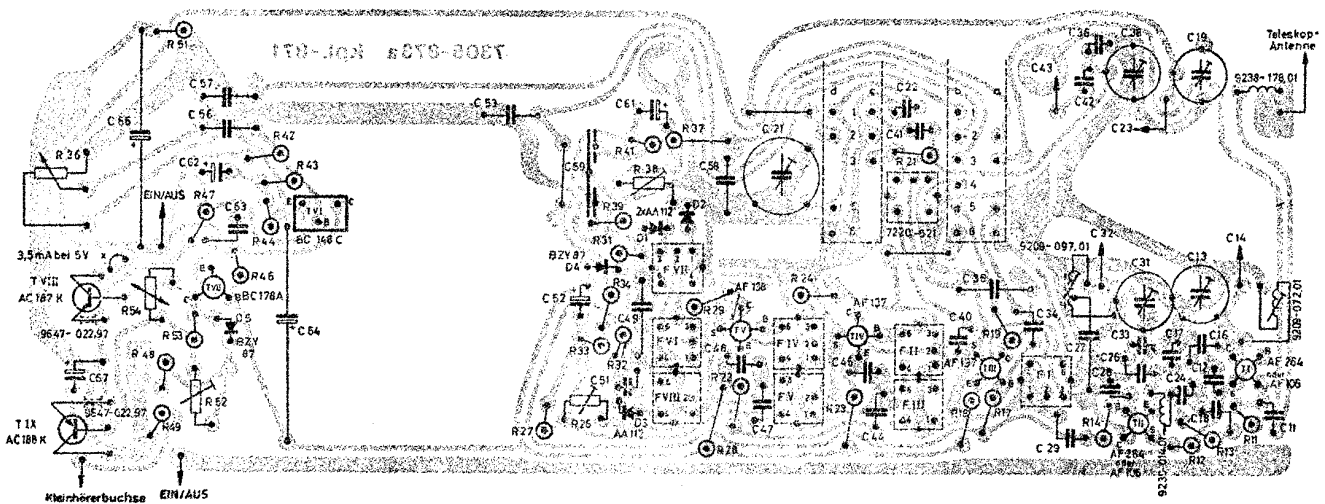
# ALIGNMENT POINTS

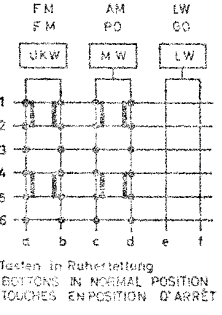
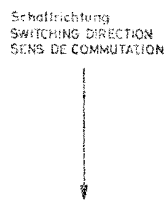
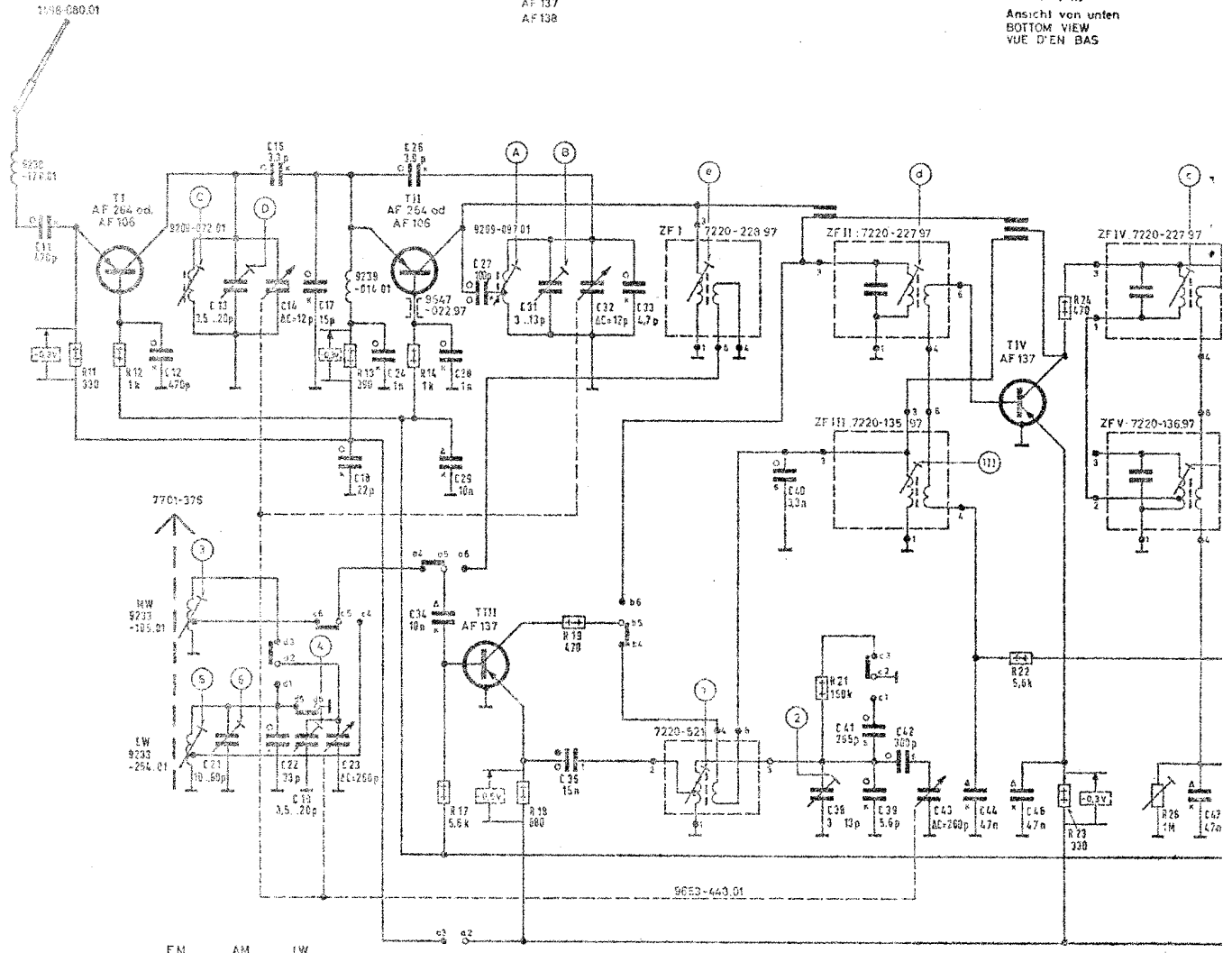
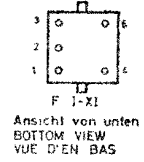
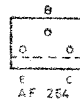


# PRINTED CIRCUIT (SOLDER SIDE VIEW)



# PRINTED CIRCUIT (COMPONENT SIDE VIEW)



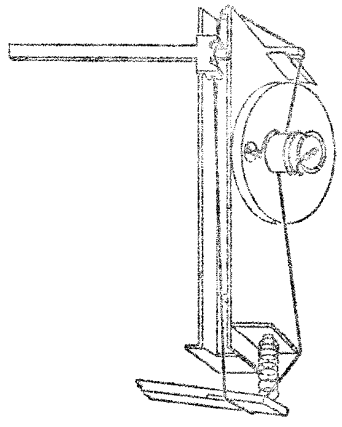


Wellenbereiche  
WAVEBAND  
GAMMES D'ONDES

UKW - FM - FM	87	108 MHz
MW - AM - PO	510	1620 kHz
LW - LW - GO	145	260 kHz
AM - ZF	460 kHz	FM - ZF 10,7 MHz
AM - IF	460 kHz	FM - IF 10,7 MHz
AM - FI	460 kHz	FM - FI 10,7 MHz
HF - NF - Platte	7305-104	Ferritantenne kpl FERRIT-ANTENNA CADRE FERRITE
RF - AF - BOARD PLAQUE HF - BF		

ALTERATIONS RESERVED

C	11	12	13, 21	14, 16, 22, 10, 17, 23, 18, 24, 26, 34, 28, 29, 27	31, 36, 32, 35	43, 38, 41, 39, 42, 43, 44
F	14	12	13	14, 17	18, 19	21



AM-FM DRIVE  
12.2 ins approx

