

# Service Document **Exchange Set**

## **Concert Boy 240**

# GRUNDIG

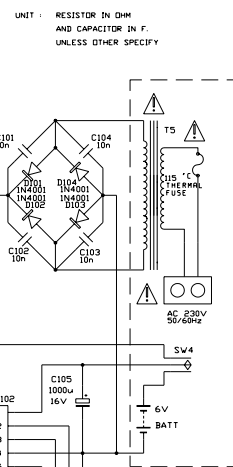
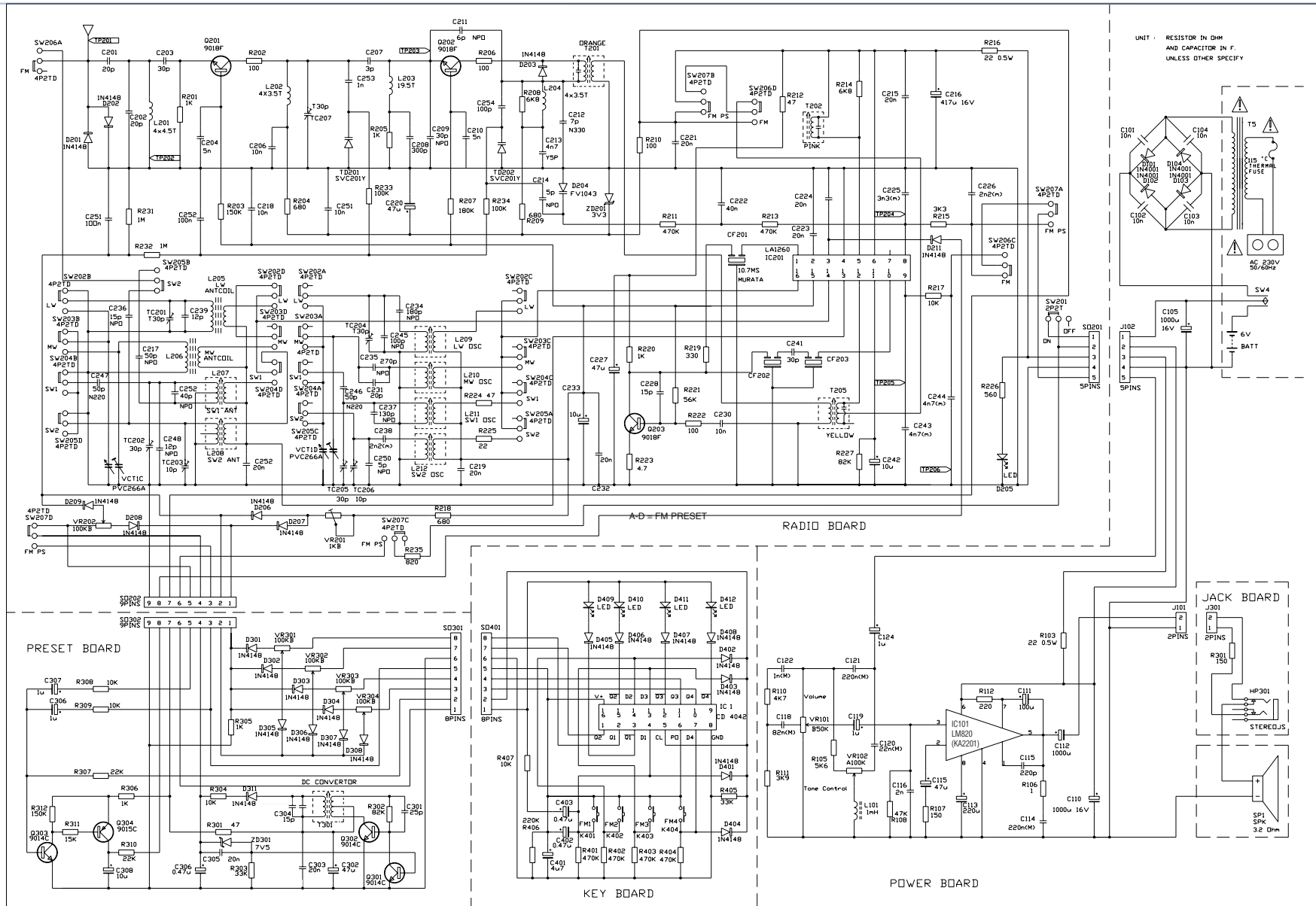
**Service  
Manual**  
**Sicherheit  
Safety**  
Materialnr./Part No.  
72010 800 0000



Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 72010 800 0000, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

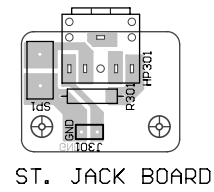


The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

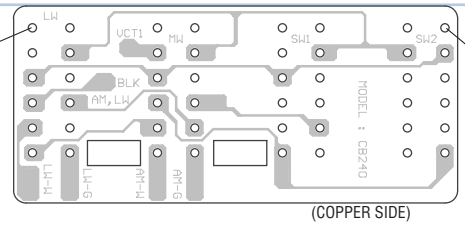


- SWITCHES**
- SW201 = ON / OFF
  - SW202 A-D = LW
  - SW203 A-D = MW
  - SW204 A-D = SW1
  - SW205 A-D = SW2
  - SW206 A-D = FM
  - SW207

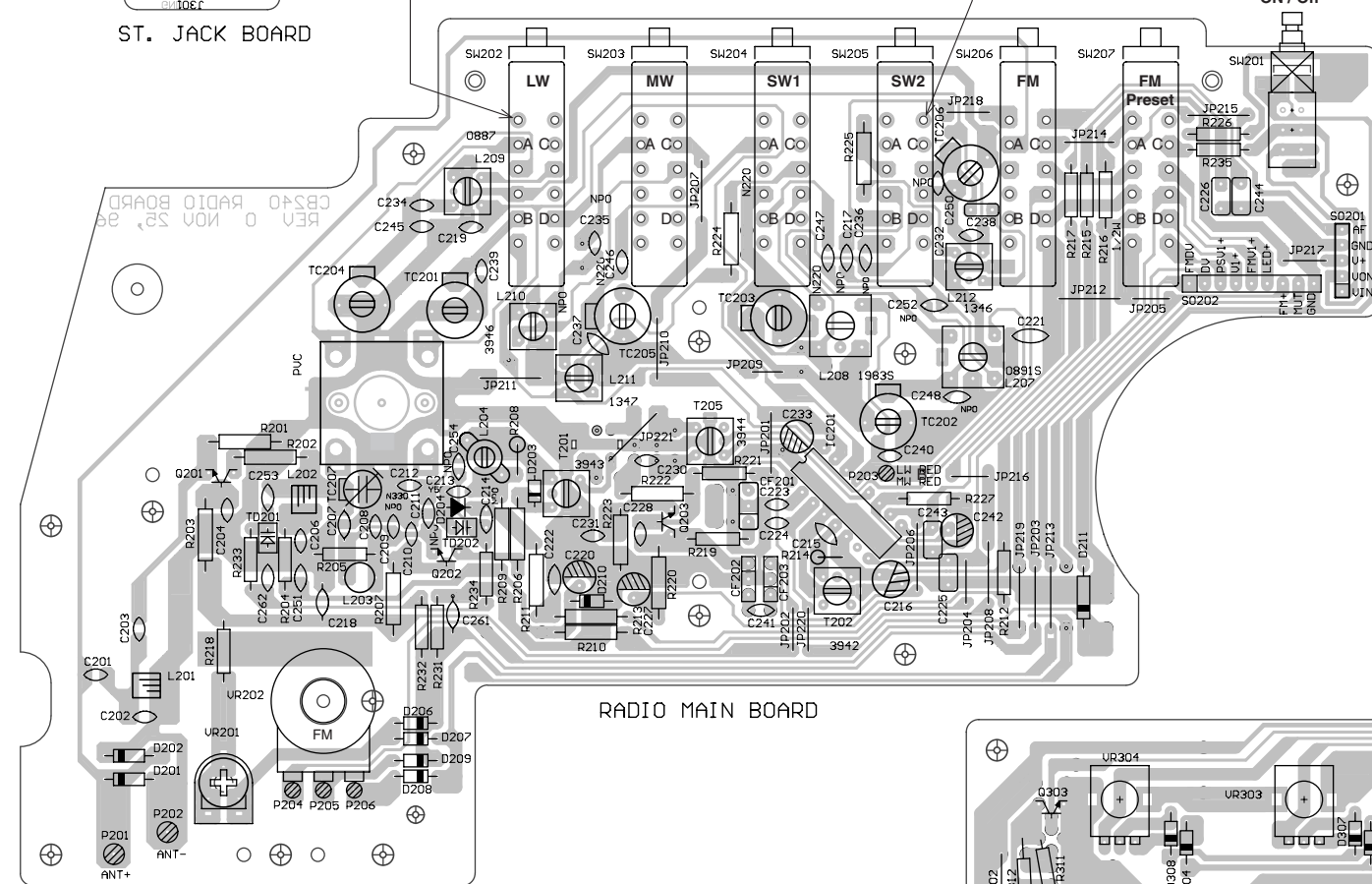
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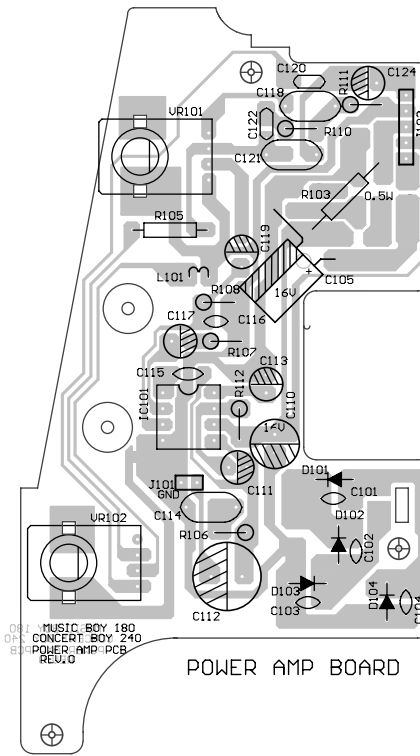
ST. JACK BOARD



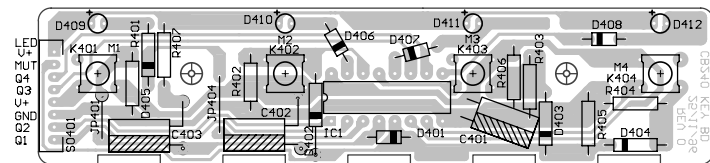
(COPPER SIDE)



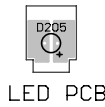
RADIO MAIN BOARD



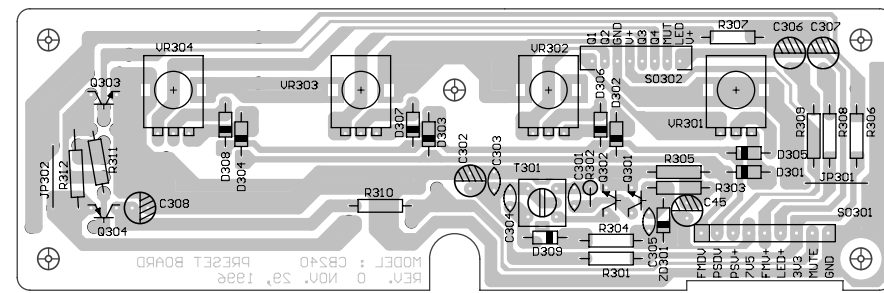
POWER AMP BOARD



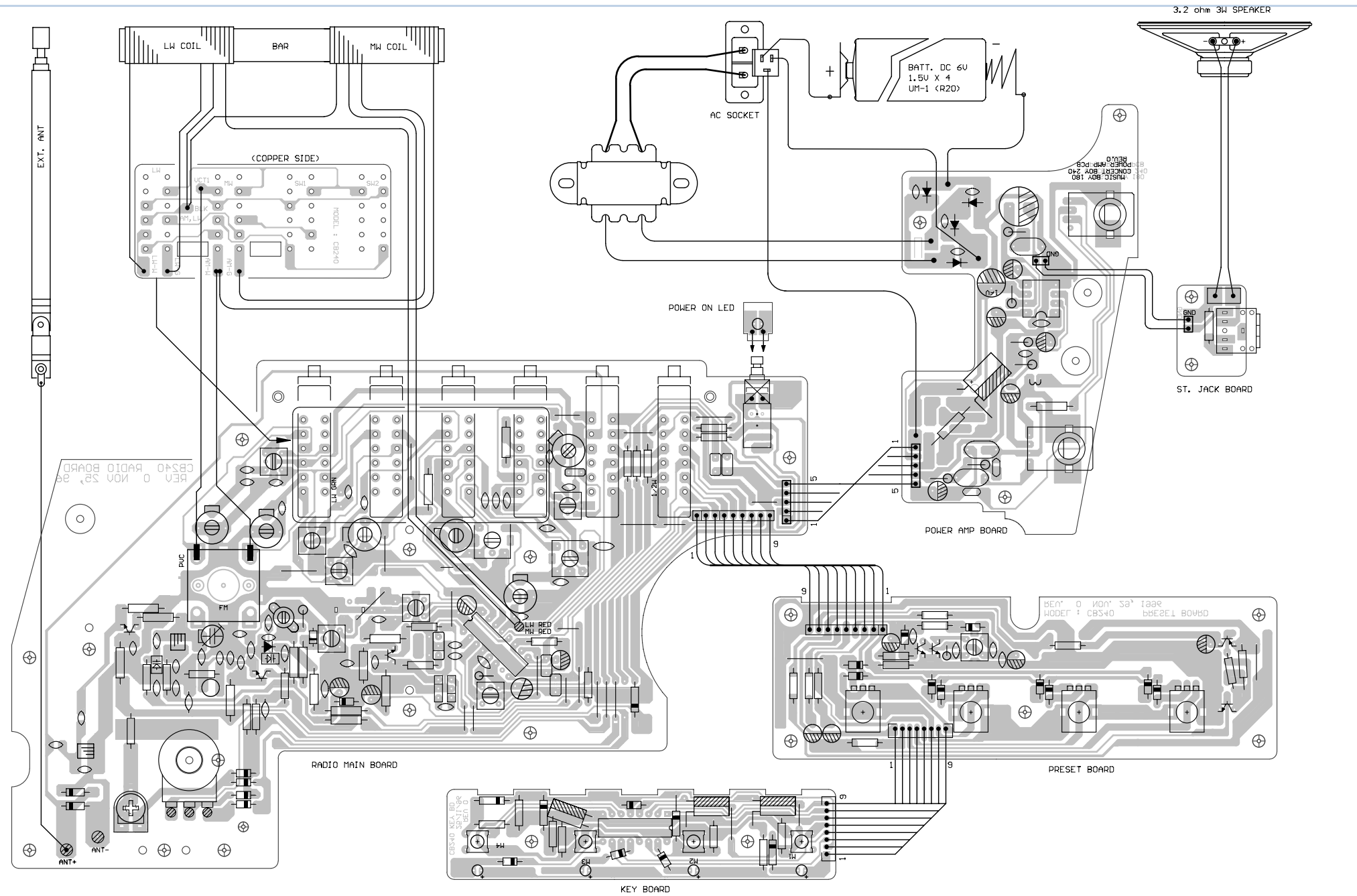
KEY BOARD



LED PCB



PRESET BOARD



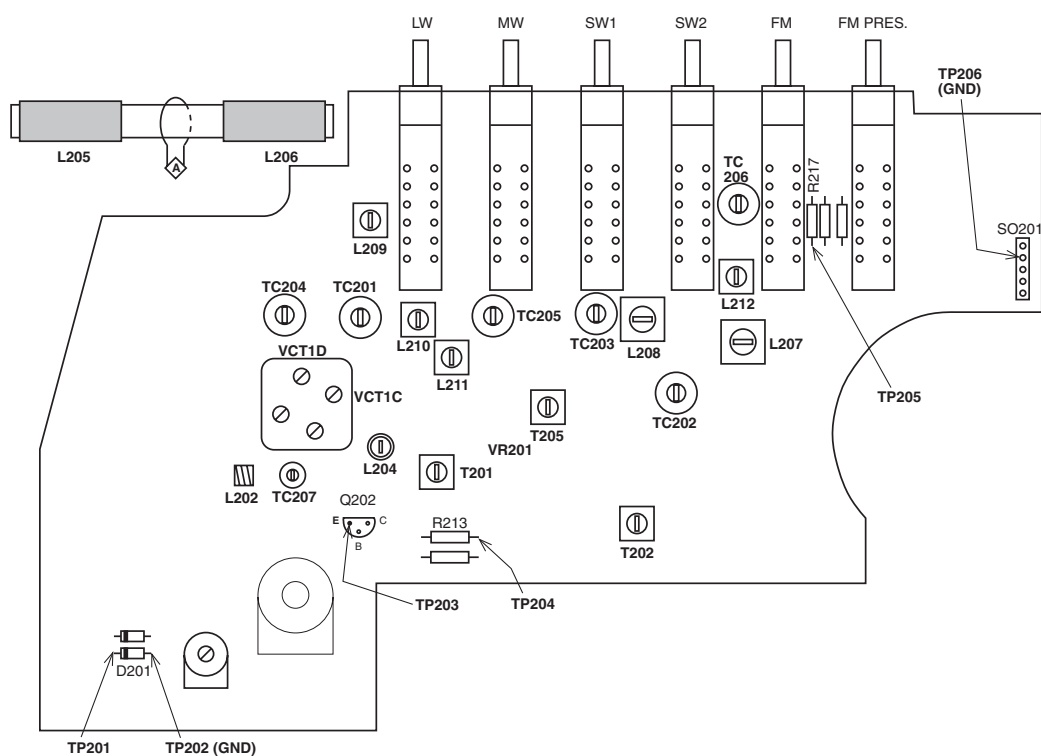
## ALIGNMENT PROCEDURE

### Instruments Required

1. Signal Generator
2. FM Signal Generator
3. AM/FM IF Sweep Generator (10.7MHz for FM)
4. VTVM
5. Oscilloscope
6. Regulated DC power supply

### General Preparation

1. Check source voltage, DC or AC according to specifications
2. Set function switch to band being aligned
3. Signal input should be kept as low as possible to avoid AGC and AFC function
4. Standard modulation: AM 1kHz 30% mod., FM 1kHz 22.5kHz dev.



ALIGNMENT	INPUT SIGNAL SOURCE	SIGNAL (mod.)	OUTPUT	SET RADIO DIAL TO	ADJUST	ADJUST FOR	REMARK
AM IF	IF Sweep/Signal Generator via a standard radiation loop ant. to	460kHz	Oscilloscope to TP205 GND TP206	Quit point	T205	Maximum	
MW RF	Oscillator via a standard radiation loop ant. to	526.5kHz 1606.5kHz	Speaker	Lowest end Highest end	L210 VCT1D	Maximum	Repeat this adjustment
	Aerial band pass	558kHz 1440kHz		558kHz 1440kHz	L206 VCT1C		
LW RF	Oscillator via a standard radiation loop ant. to	148.5kHz 283.5kHz	Speaker	Lowest end Highest end	L209 TC204	Maximum	Repeat this adjustment
	Aerial band pass	153kHz 261kHz		153kHz 261kHz	L205 TC201		
SW 1 RF	Oscillator via 10pF to Testpoint TP201 GND to TP202	5.8MHz 6.4MHz	Speaker	Lowest end Highest end	L211 TC205	Maximum	Repeat this adjustment
	Aerial band pass	5.9MHz 6.3MHz		5.9MHz 6.3MHz	L207 TC202		
SW 2 RF	Oscillator via 10pF to Testpoint TP201 GND to TP202	6.8MHz 18.5MHz	Speaker	Lowest end Highest end	L212 TC206	Maximum	Repeat this adjustment
	Aerial band pass	7.0MHz 16.0MHz		7.0MHz 16.0MHz	L208 TC203		
FM IF	IF to Testpoint TP203 GND to TP202	10.7MHz	to TP 204 GND TP206	Quit point	T201 T202	Max. & Symm.	Repeat this adjustment
FM RF	Oscillator to Testpoint TP201 GND to TP202	87.35MHz 108.25MHz	Speaker	Lowest end Highest end	VR201 L204	Maximum	Repeat this adjustment
	Aerial band pass	88MHz 106MHz		88MHz 106MHz	L202 TC207		