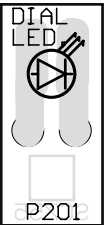
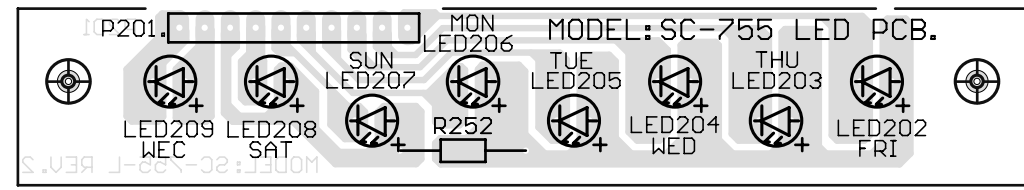
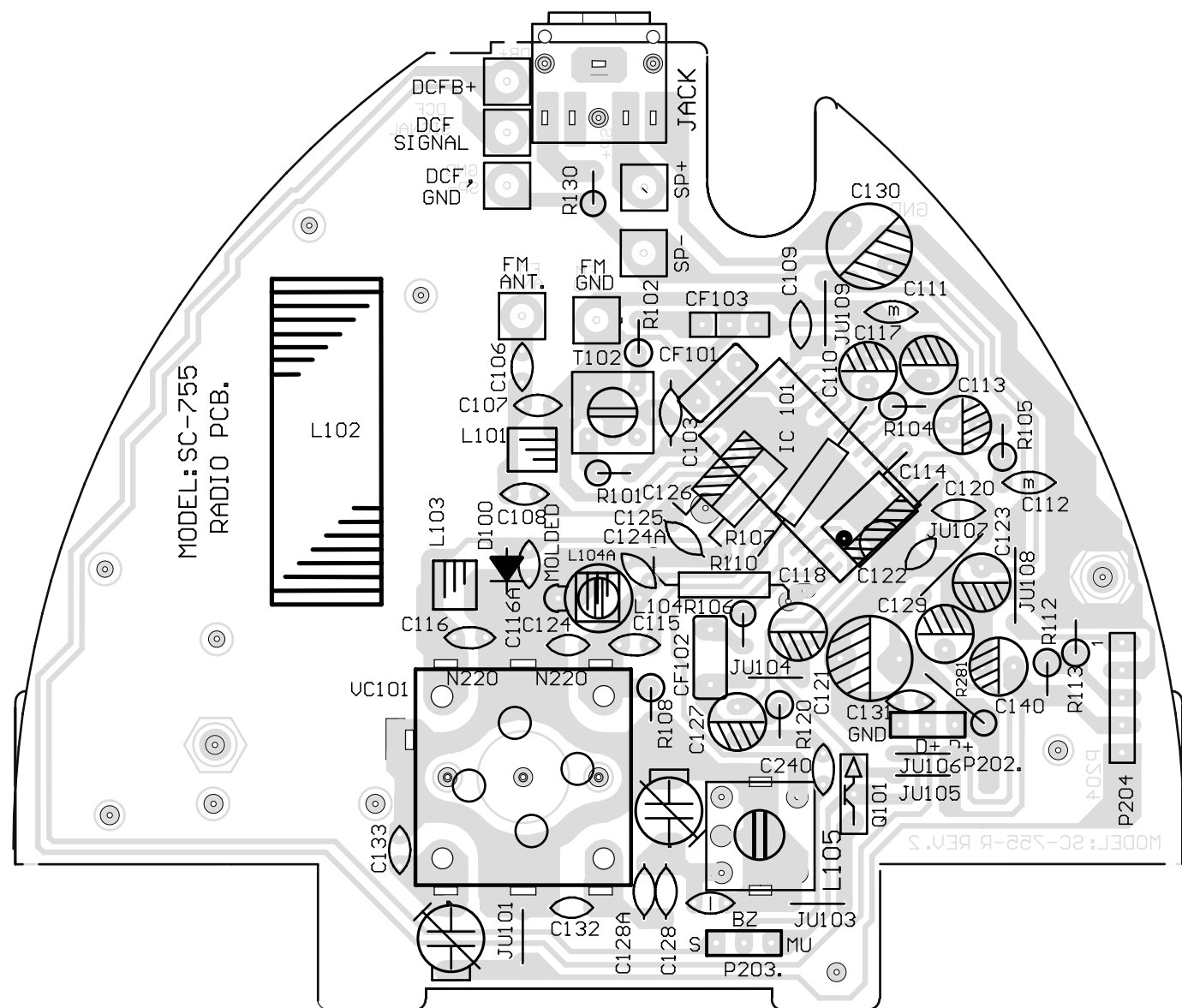
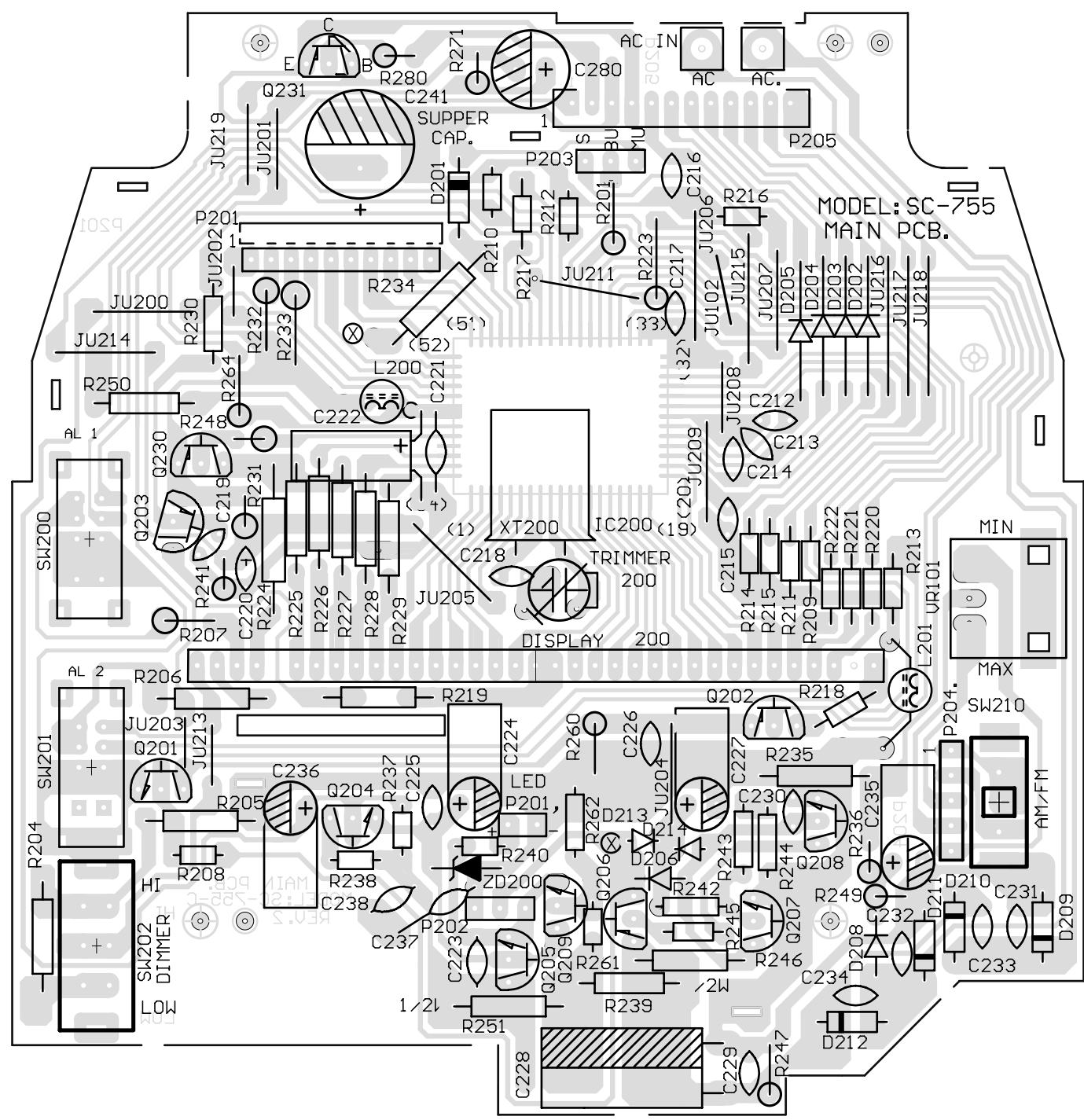
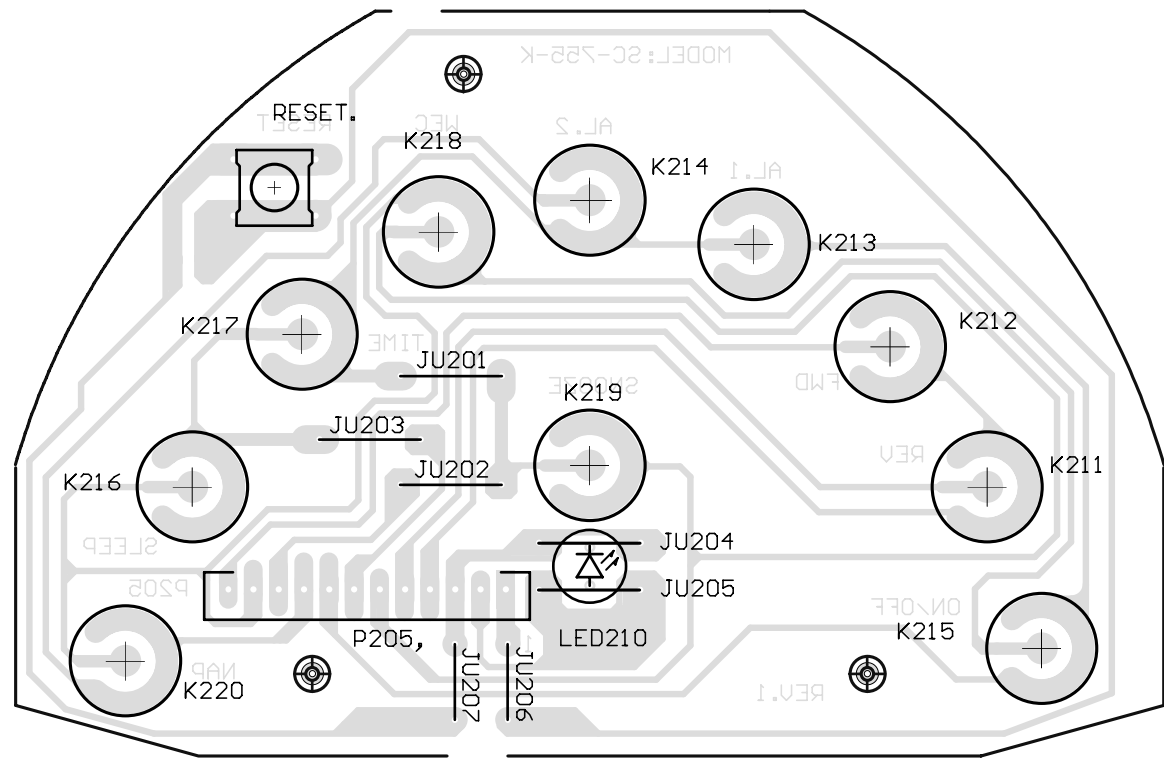


⚠ Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Sach-Nummer 72010-800.00, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!
 The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010-800.00, as well as the respective national deviations!

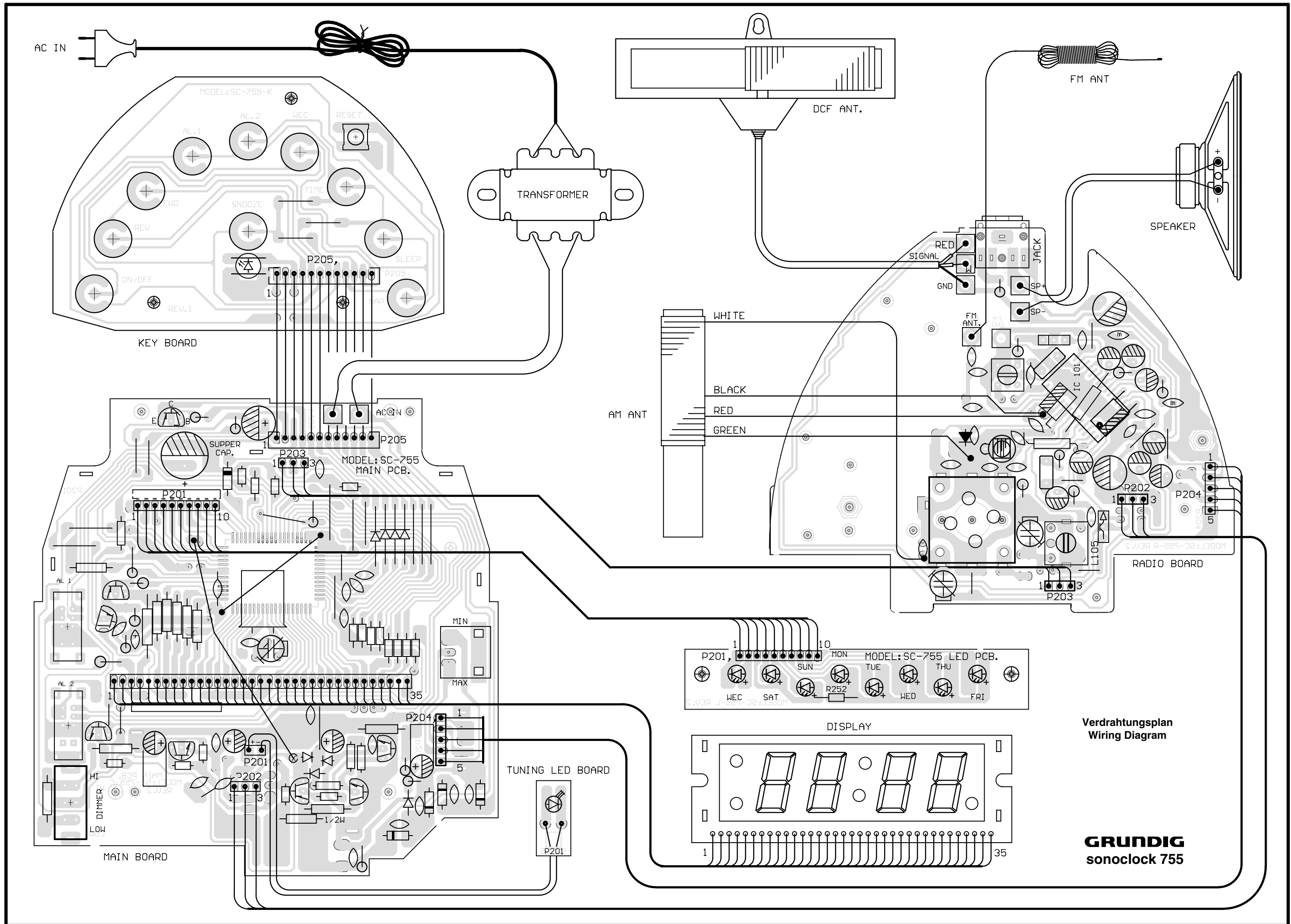
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Änderungen vorbehalten
 Subject to alteration



Druckplattenabbildungen / Illustration of Printed Boards
Bestückungsseite / Component side

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Verdrahtungsplan
Wiring Diagram

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ALIGNMENT PROCEDURE

MODEL NO. : SC-755

INSTRUMENTS REQUIRED

1. Signal Generator
2. FM Signal Generator
3. Sweep Generator (10.7 MHz for FM)
4. VTVM
5. Oscilloscope
6. Frequency counter
7. 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 1 KHz 30% mod
 - FM 1 KHz 22.5 KHz dev

FM IF ALIGNMENT

This model requires no FM IF alignment as the IF is fixed by ceramic filter and discriminator CF1 & CF2. Please take note that correct type and same color dot of ceramic filter is used in servicing, diff color dot of ceramic filter may cause worse IF 'S' curve characteristic and distortion. Connect IF genescope output terminal to TP3 & TP2 (GND), connect scope input terminal to TP4 & TP2 (GND), then the IF characteristic curve can be observed.

AM IF ALIGNMENT

STEP	SIGNAL SOURCE (AM RF Gen.) CONNECT TO	SET SIGNAL TO	ALIGNMENT INDICATOR (Oscilloscope, VTVM) CONNECT TO	SET RADIO DIAL TO	ADJUST	ADJUST FOR	REMARKS
1	A standard radiation loop	465 KHz	TP (4) Detector output terminal and ground	Quiet Point	T102	Maximum	Volume control at min. position
2	Repeat step 1 for max. output						

FM RF ALIGNMENT

STEP	SIGNAL SOURCE (FM Signal Gen.) CONNECT TO	SET SIGNAL TO	ALIGNMENT INDICATOR (Oscilloscope, VTVM) CONNECT TO	SET RADIO DIAL TO	ADJUST	ADJUST FOR	REMARKS
1	TP (1) & (2) through matching network if necessary	87.35 MHz (modulated)	Terminals across speaker voice coil	(Lowest end)	L104 (Osc. coil) stretch or squeeze	Maximum	Volume control at max. position
2		108.25 MHz (modulated)		(Highest end)	VCT1 B (Osc. trimmer)		
3		88 MHz (modulated)		88 MHz	L103 (RF coil) stretch or squeeze		
4		106 MHz (modulated)		106 MHz	VCT1 A (RF trimmer)		
5	Repeat steps 3 and 4 as necessary to minimize tracking error and also steps 1 and 2 if necessary						

AM RF ALIGNMENT

STEP	SIGNAL SOURCE (AM Signal Gen.) CONNECT TO	SET SIGNAL TO	ALIGNMENT INDICATOR (Oscilloscope, VTVM) CONNECT TO	SET RADIO DIAL TO	ADJUST	ADJUST FOR	REMARKS
1	A standard radiation loop ant.	515 KHz (modulated)	Across speaker voice coil	(Lowest end)	L105 (Osc. coil)	Maximum	Volume control at max. position
2		1630 KHz (modulated)		(Highest end)	VCT1 C (Osc. trimmer)		
3		588 KHz (modulated)		558 KHz	L102 (ant. coil)		
4		1440 KHz (modulated)		1440 KHz	VCT1 D (ant. trimmer)		
5	Repeat steps 3 and 4 as necessary to minimize tracking error and also steps 1 and 2 if necessary						

CLOCK FREQUENCY ALIGNMENT

SIGNAL SOURCE CONNECT TO	SET SIGNAL TO	ALIGNMENT INDICATOR (Frequency Counter) CONNECT TO	SET RADIO DIAL TO	ADJUST	ADJUST FOR	REMARKS
No signal		TP (5) and TP (6) with 10 : 1 test probe Through a cap. 1 pF to 3 pF. (It depends on the sensitivity of the frequency counter)	Any Point	Trimmer 200	4.194304 Mhz	