

# Service Document **Exchange Set**

## **RRCD 3410**

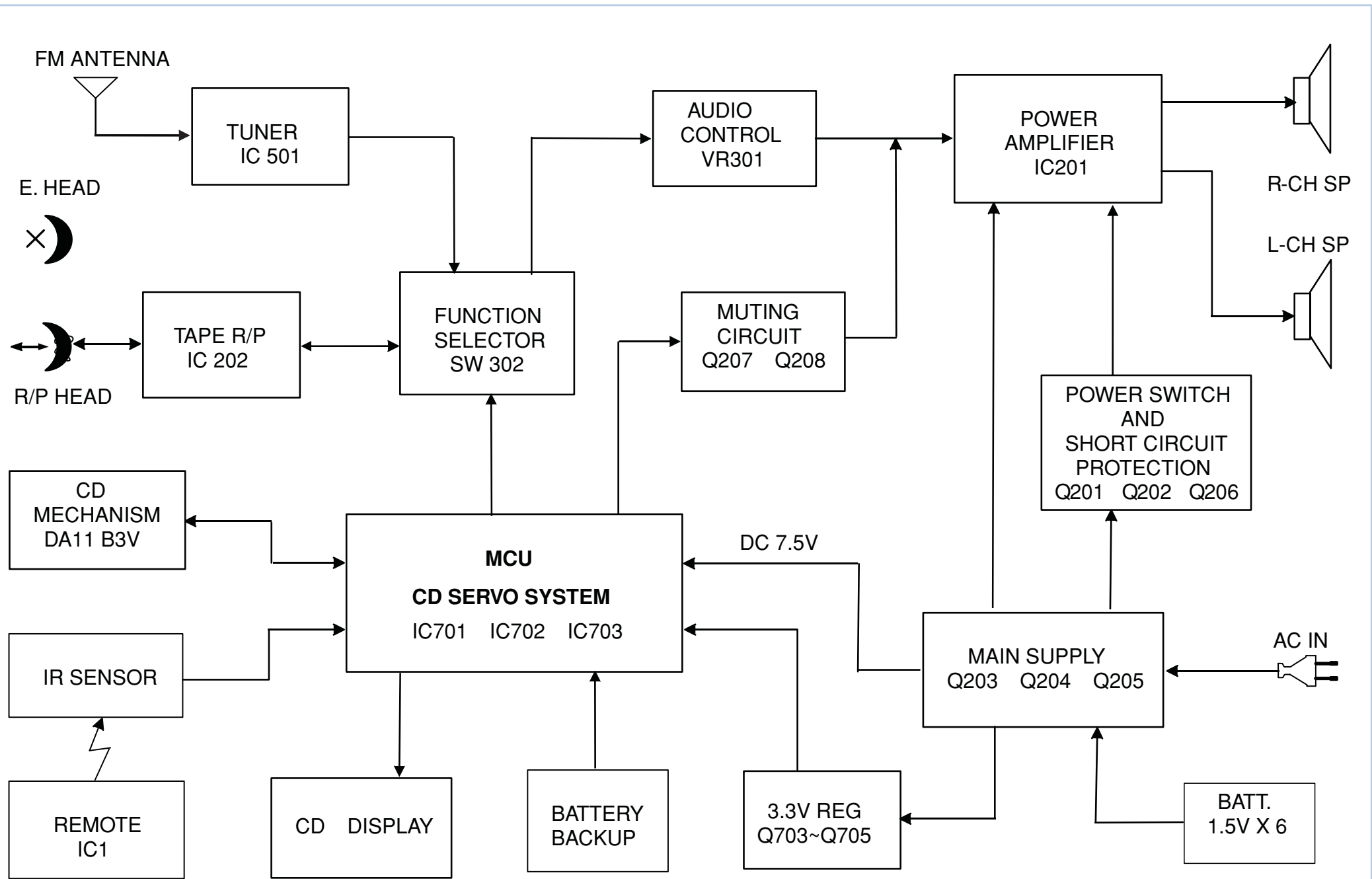
<b>Service Manual</b>
<b>Sicherheit</b>
<b>Safety</b>
Materialnr./Part No. 720108000001

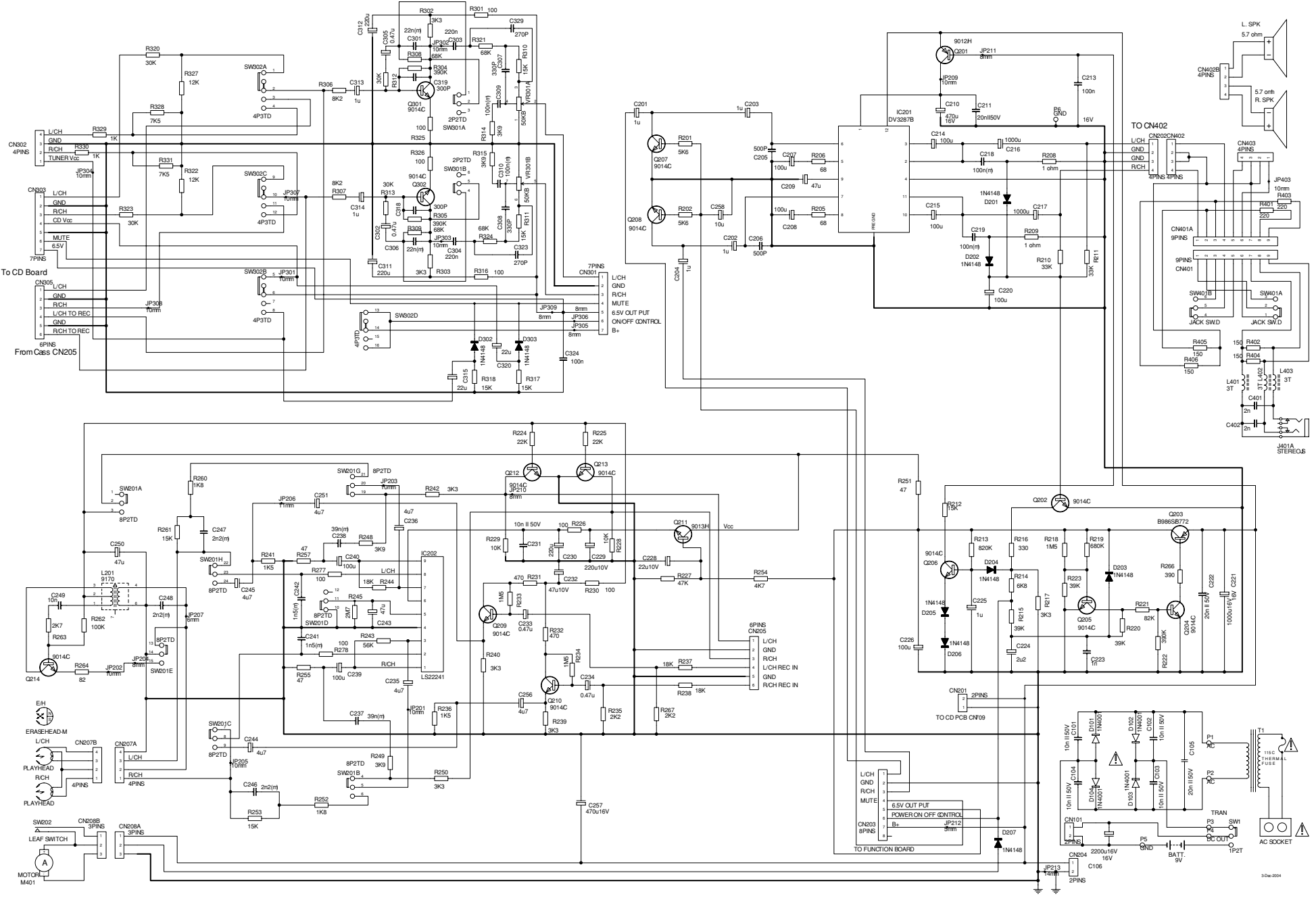


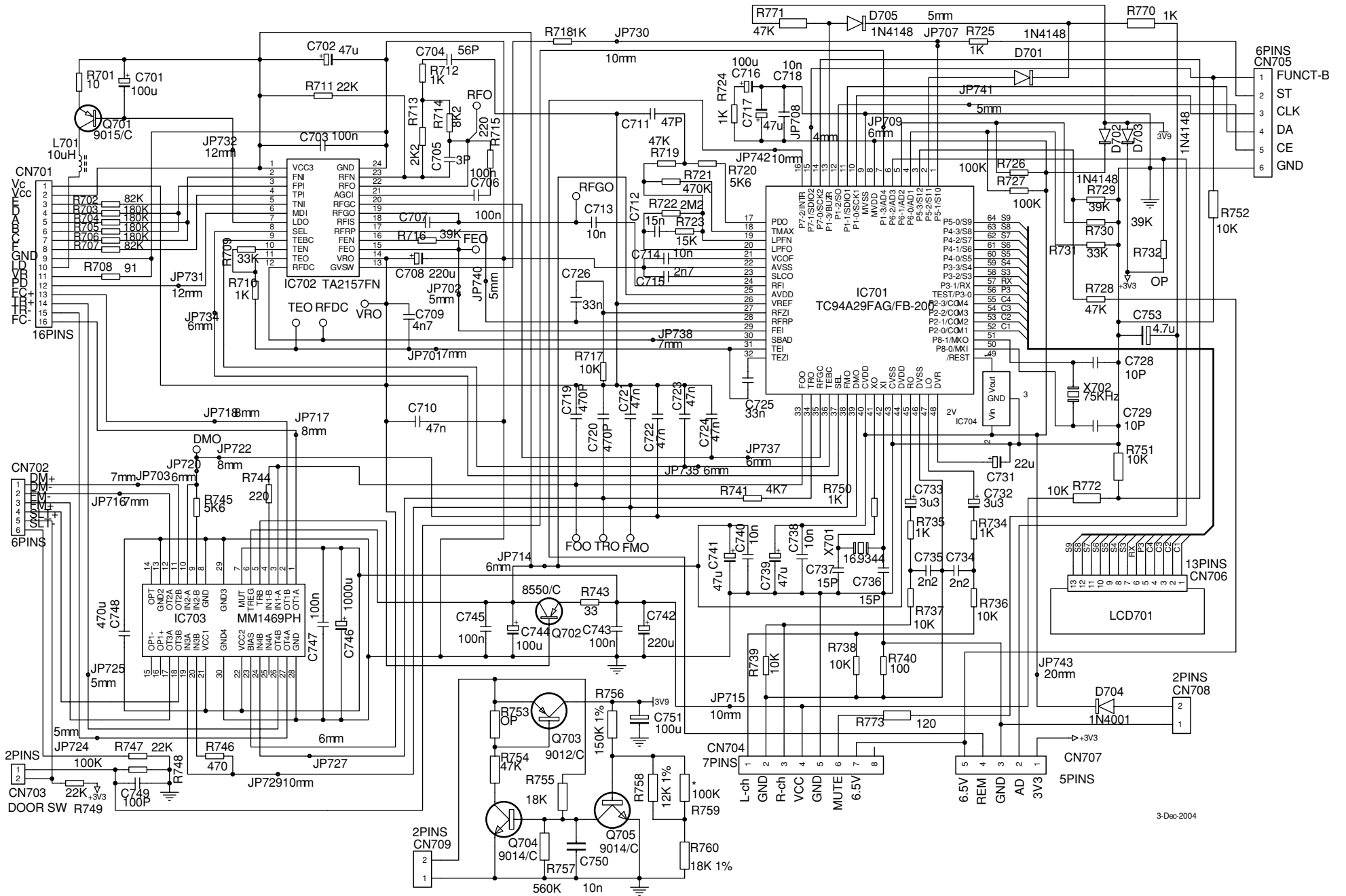
Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



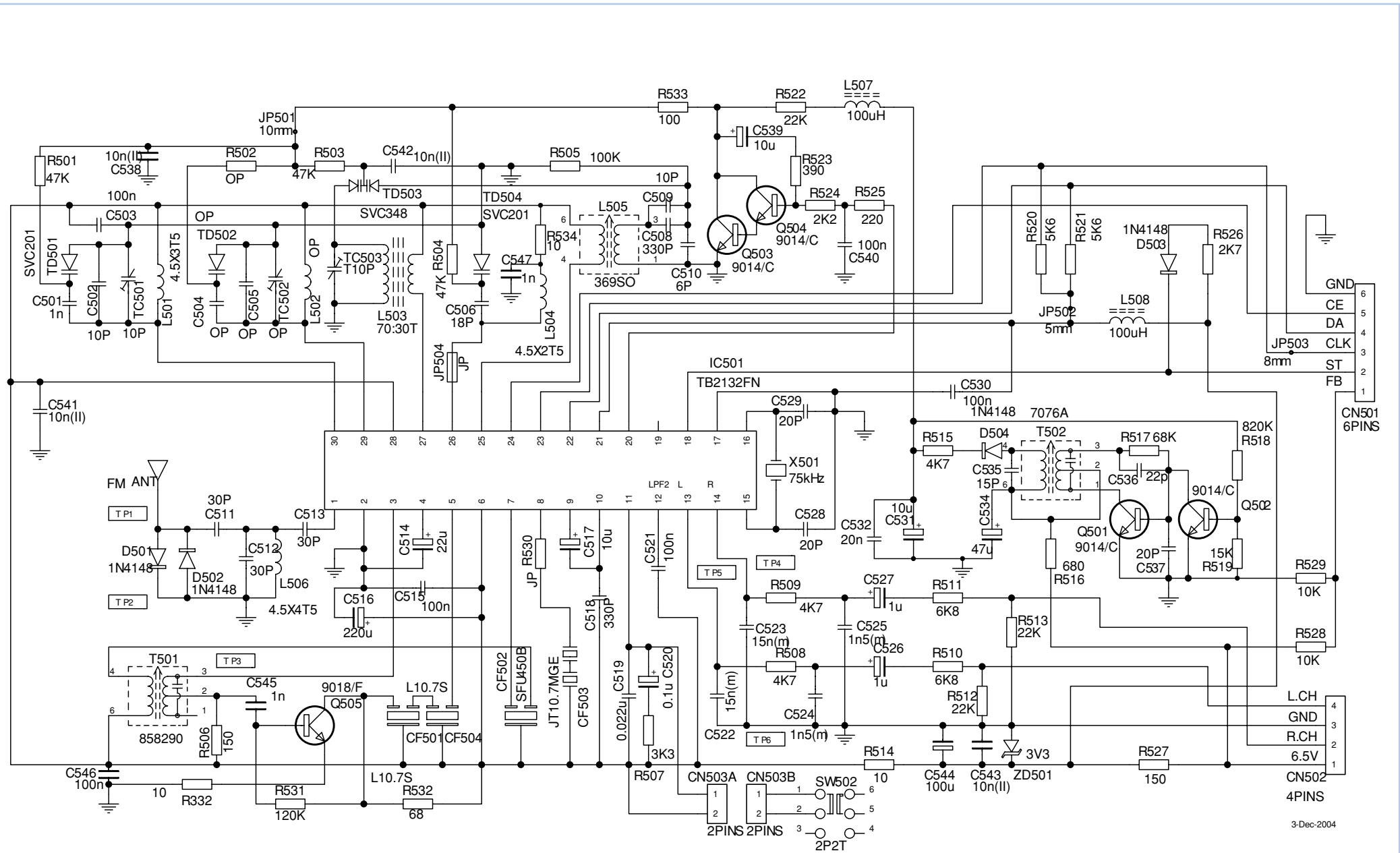
The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.



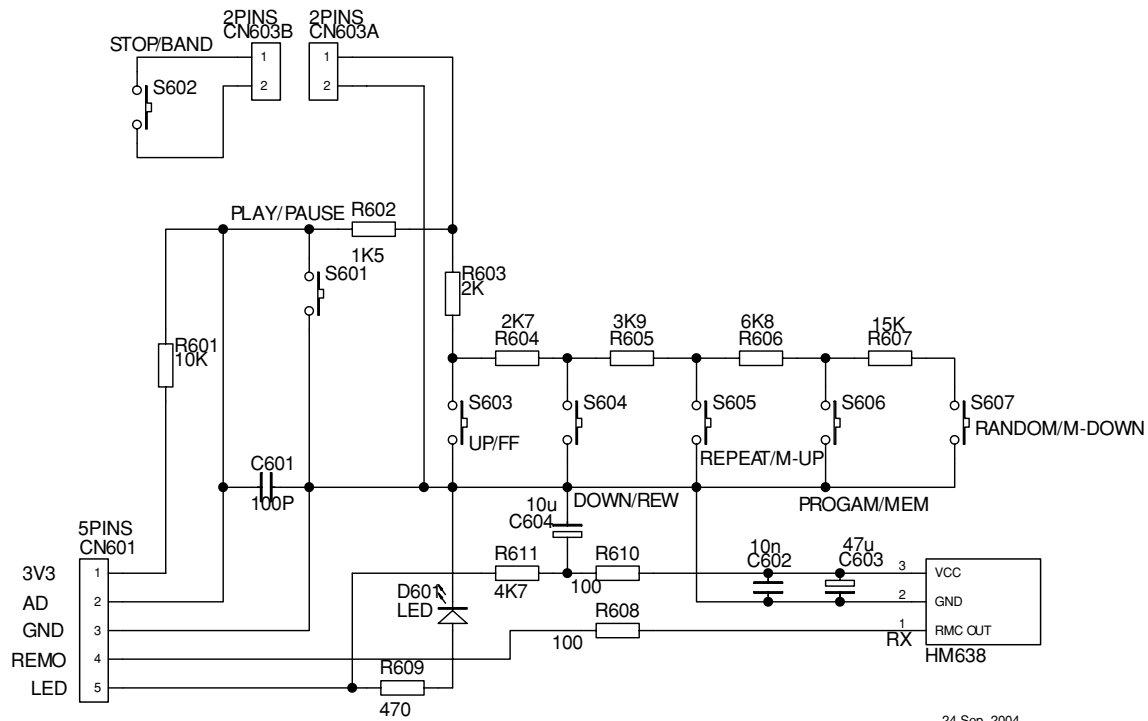




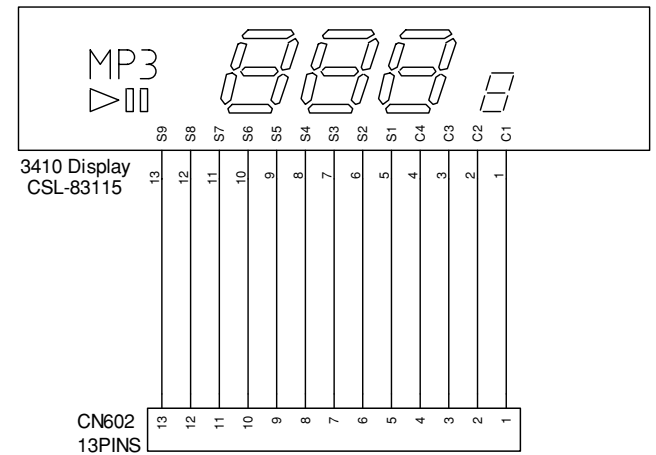
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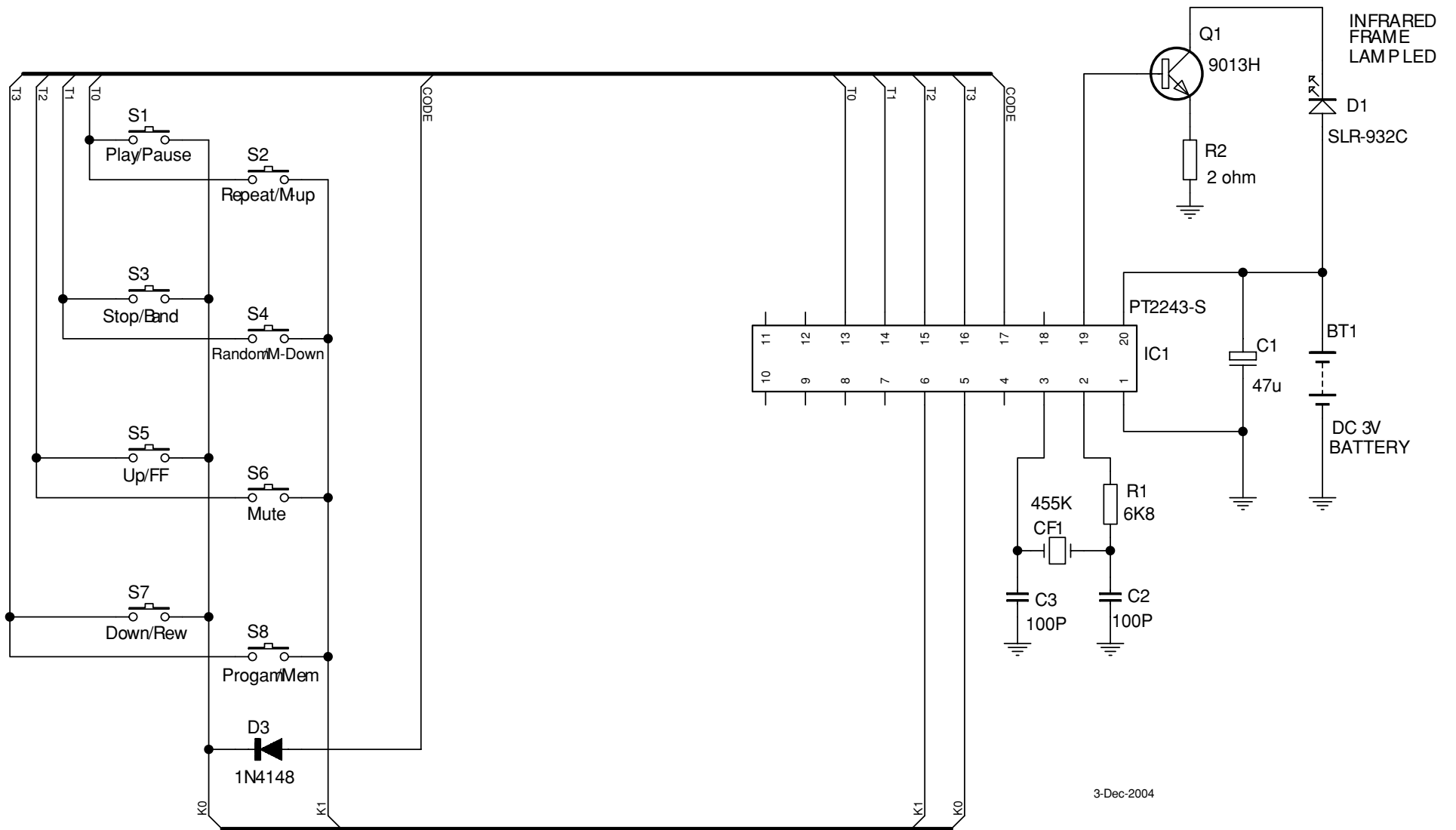


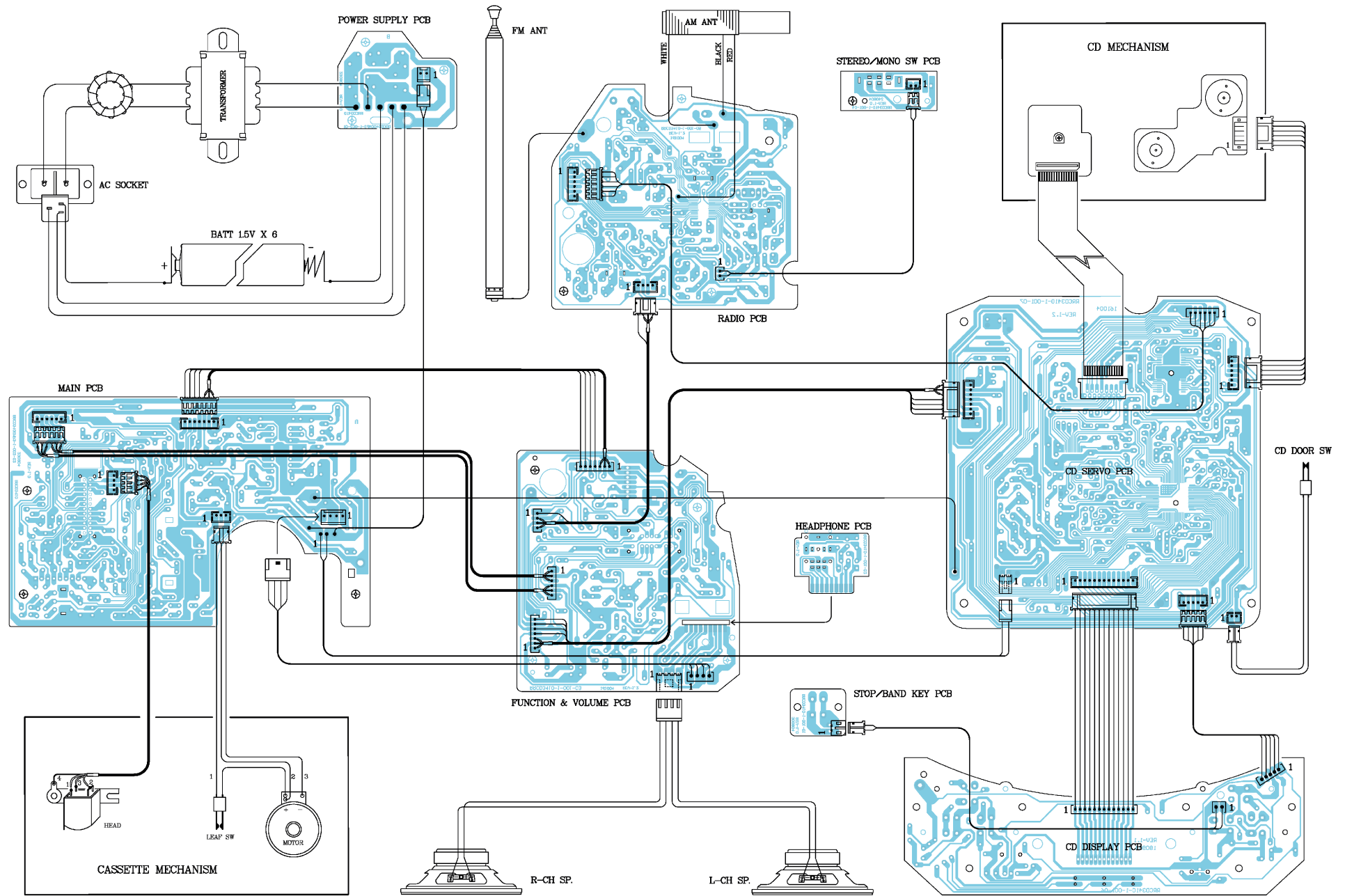
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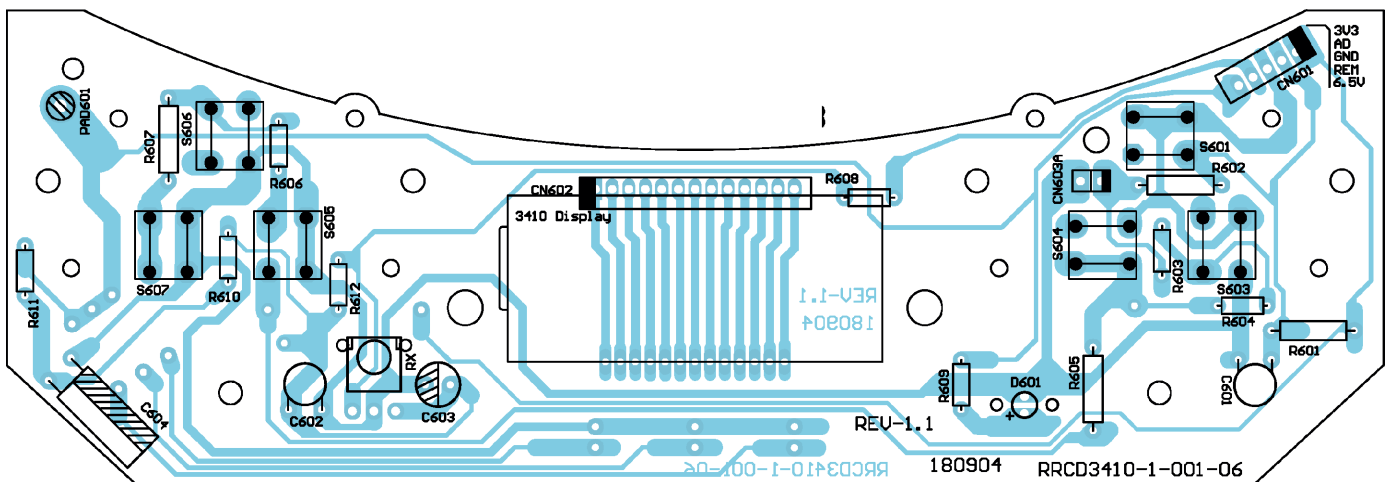
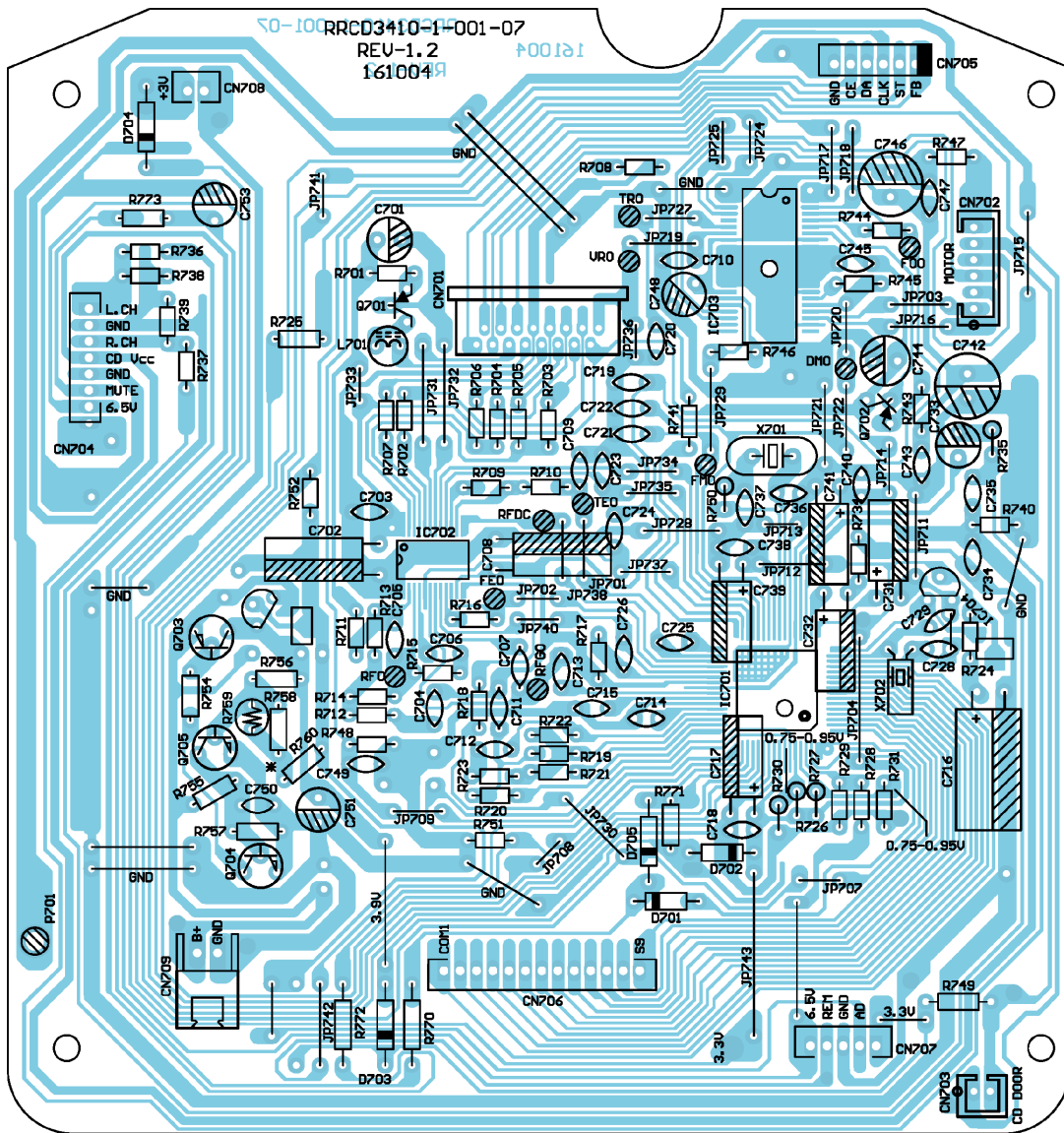
24 Sep. 2004

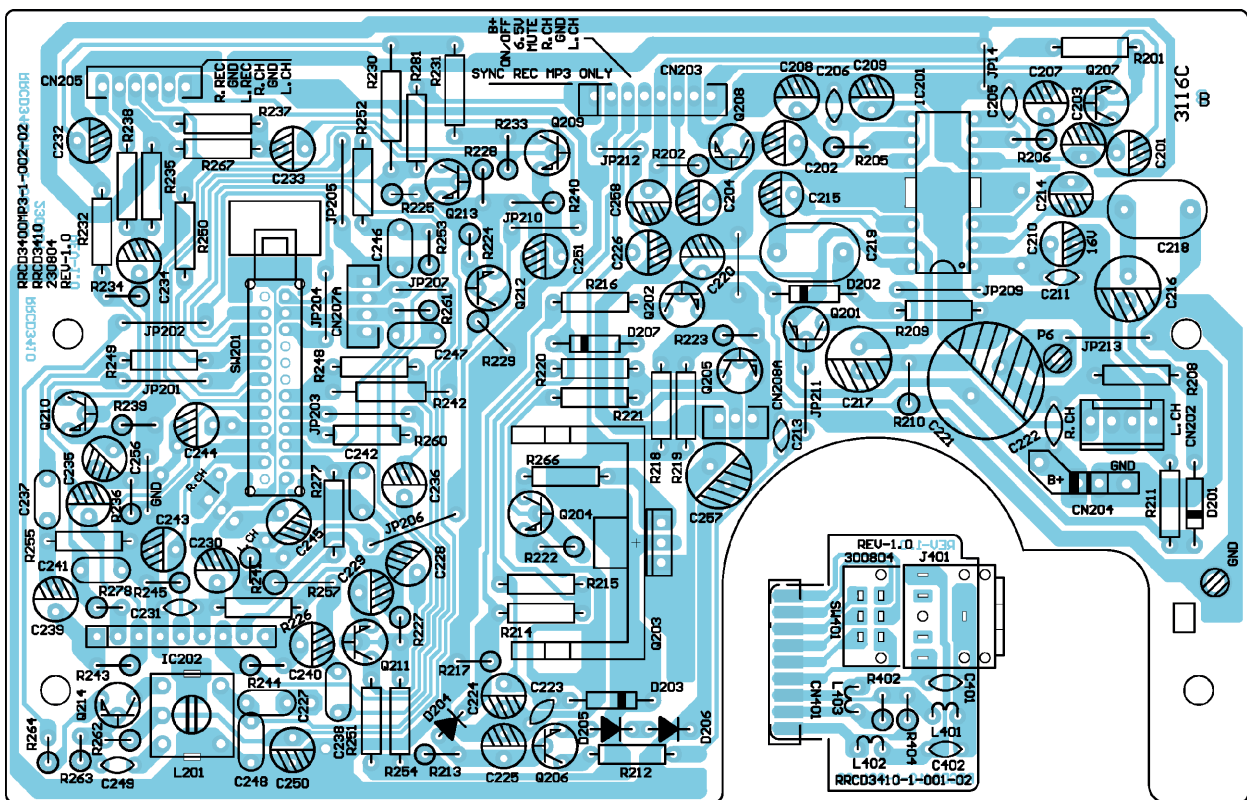
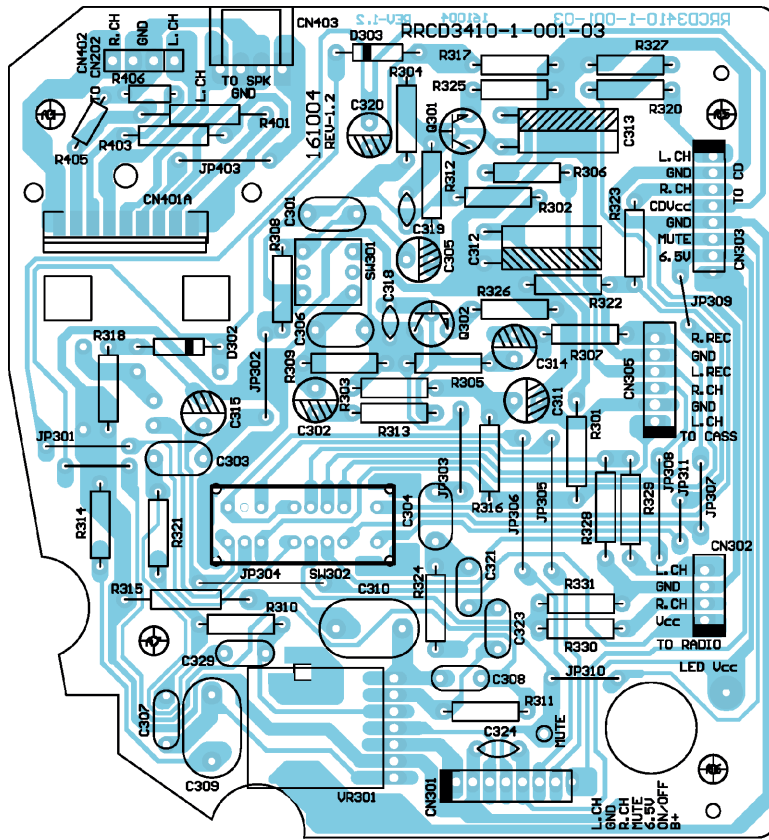


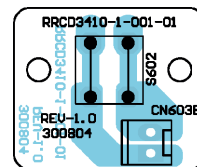
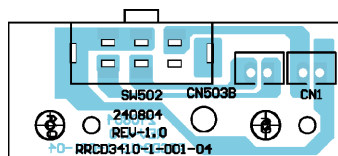
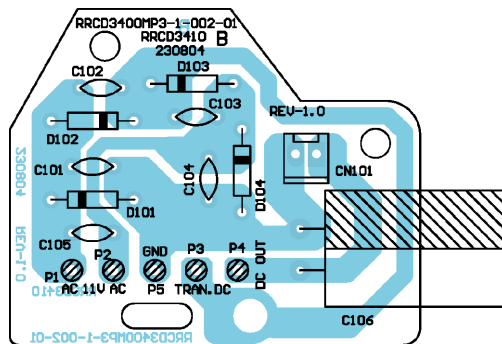
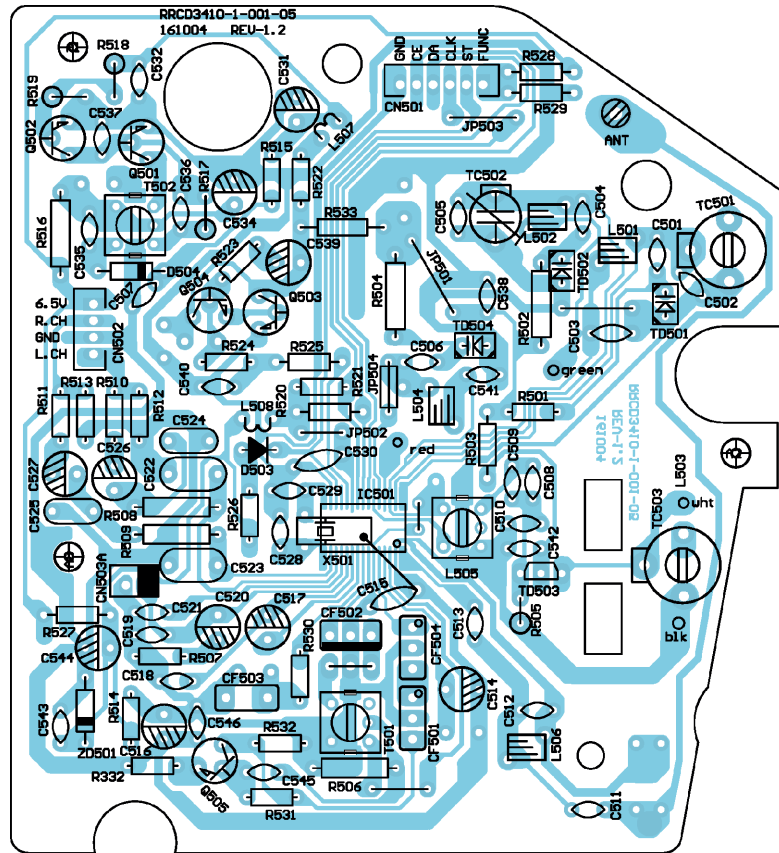












# ALIGNMENT PROCEDURE

## GRUNDIG RRCD3410

### INSTRUMENTS REQUIRED

1. Signal Generator
2. FM Signal Generator
3. FM/AM IF 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

### 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	450KHz	TP4 or TP5 Detector output terminal and ground (TP6)	Quiet Point	T501	Maximum	Volume control at min. position
2	Repeat step 1 for max. output						

### FM IF ALIGNMENT

This model requires no FM IF alignment as the IF is fixed by ceramic filter and discriminator CF502 & CF505. 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 TP4 OR TP5 & TP6 (GND) in series with a 1000Pf capacitor, connect scope input terminal to TP3 & TP6 (GND), then the IF characteristic curve can be observed.

# ALIGNMENT PROCEDURE

## GRUNDIG RRCD3410

### 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	TP1 & TP2 through matching network if necessary	87.5 MHz (modulated)	Terminals across speaker voice coil	87.5 MHz (Lowest end)	NA	NA	Digital DC Volt meter is Connected to TP 7 and grg
2		108 MHz (modulated)		108 MHz (Highest end)	L504 (Osc. Coil) stretch or squeeze	DC 8V ±0.3V	
3		88 MHz (modulated)		88 MHz	L501 (RF coil) stretch or squeeze	Maximum	Volume control at max. position
4		106 MHz (modulated)		106 MHz	TC 501 (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.	531 KHz (modulated)	Across speaker voice coil	531 KHz (Lowest end)	NA	NA	Digital DC Volt meter is Connected to TP 7 and grg
2		1622 KHz (modulated)		1622 KHz (Highest end)	T 505 (Osc.Coil)	DC 8V ±0.3V	
3		558 KHz (modulated)		558 KHz	L 503 (ant. coil)	Maximum	Volume control at max. position
4		1440 KHz (modulated)		1440 KHz	TC 503 (ant. trimmer)		
5	Repeat steps 3 and 4 as necessary to minimize tracking error and also steps 1 and 2 if necessary						

# ALIGNMENT PROCEDURE

## GRUNDIG RRCD3410

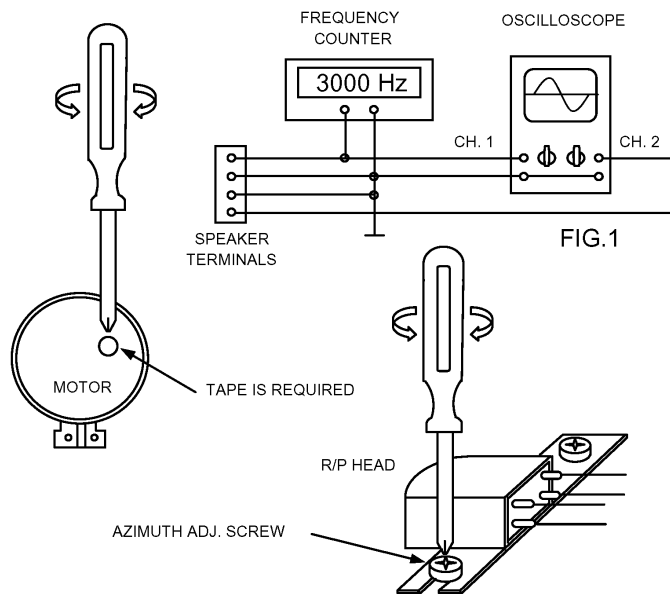
GENERAL PREPARATION - 1) Check source voltage, DC or AC according to specifications .

2) Set function switch to Tape being aligned .

### A) MEASURING INSTRUMENTS REQUIRED FOR TAPE SPEED AND HEAD AZIMUTH ADJUSTMENT.

#### (1) TAPE SPEED ADJUST

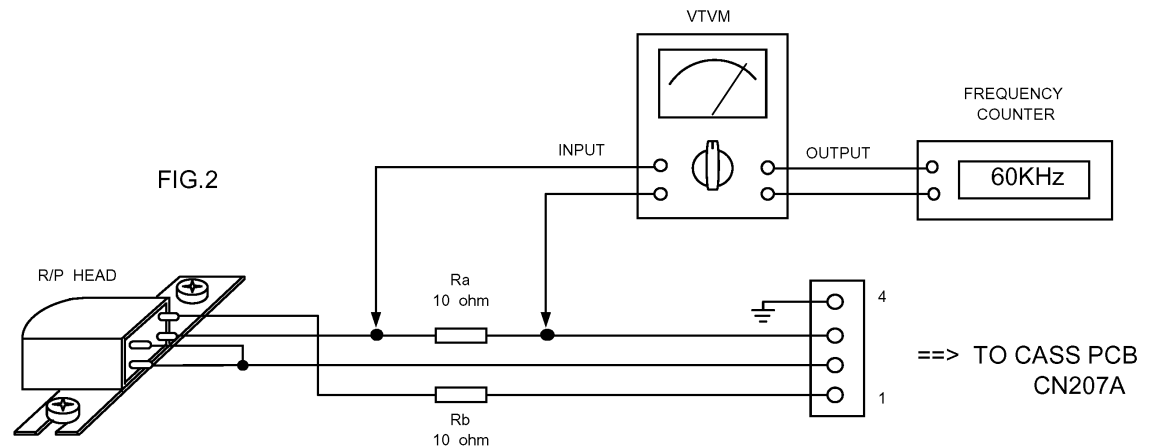
MTT-111 (3000 Hz) TEST .



#### (2) HEAD AZIMUTH ADJUSTMENT .

- 2.1 - Connect the equipments as shown in the Fig. 1.  
(The Both Speakers loading Are Required)
- 2.2 - Insert a test tape ( 10 KHz : MTT-114 ) into deck.
- 2.3 - Press PLAY and set VOLUME at reference output.
- 2.4 - Adjust the azimuth adjustment screw for the max.  
& balance ch. output on both ch. of oscilloscope.
- 2.5 - Secure above screw with glue after adj. completed.

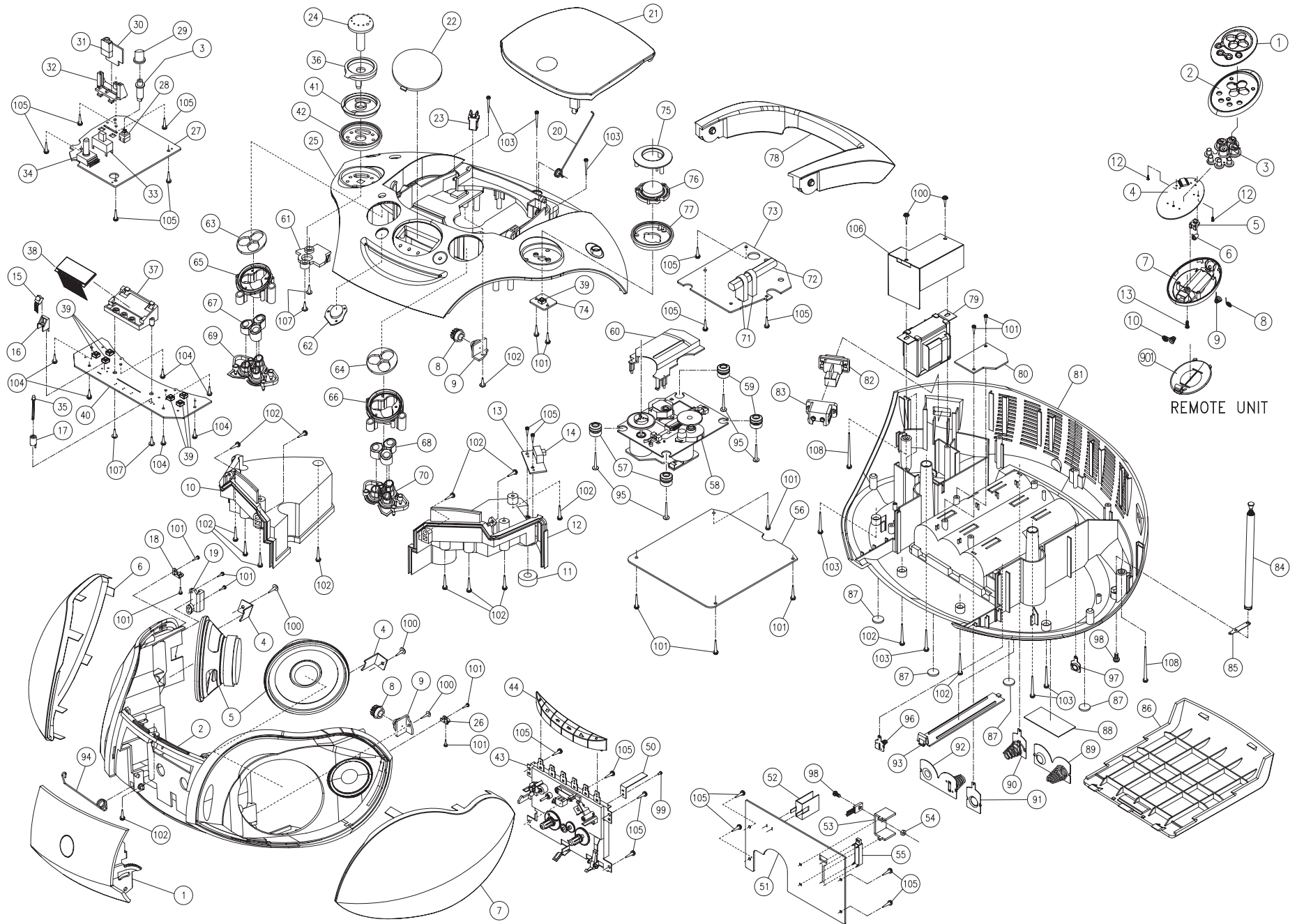
### B) EQUIPMENTS REQUESTED FOR AC BIAS FREQUENCY / CURRENT ADJUSTMENT :



#### AC BIAS FREQUENCY ALIGNMENT :

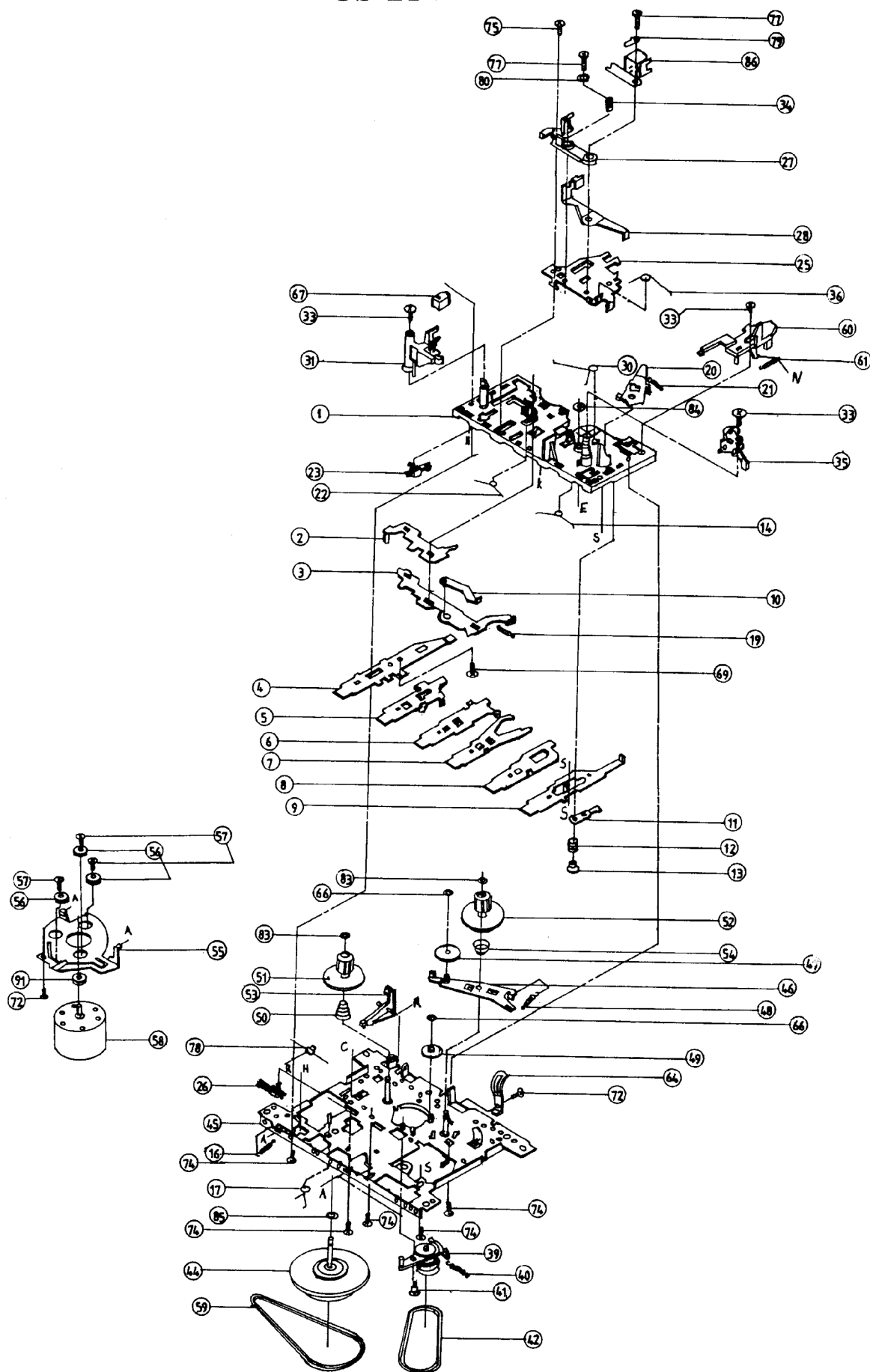
Note :The test unit should be keep in recording mode and added two resistors Ra & Rb as shown in the Fig. 2 before alignment. be sure to delete the both resistors Ra & Rb after alignment completed.

Test Point	Adjust	Frequency at Beat 0	Frequency Observe at		Observe		
			Beat 1	Beat 2	Beat 0	Beat 1	Beat 2
Resistor Ra or Rb	L201	60KHz ± 0.3KHz					



REMOTE UNIT

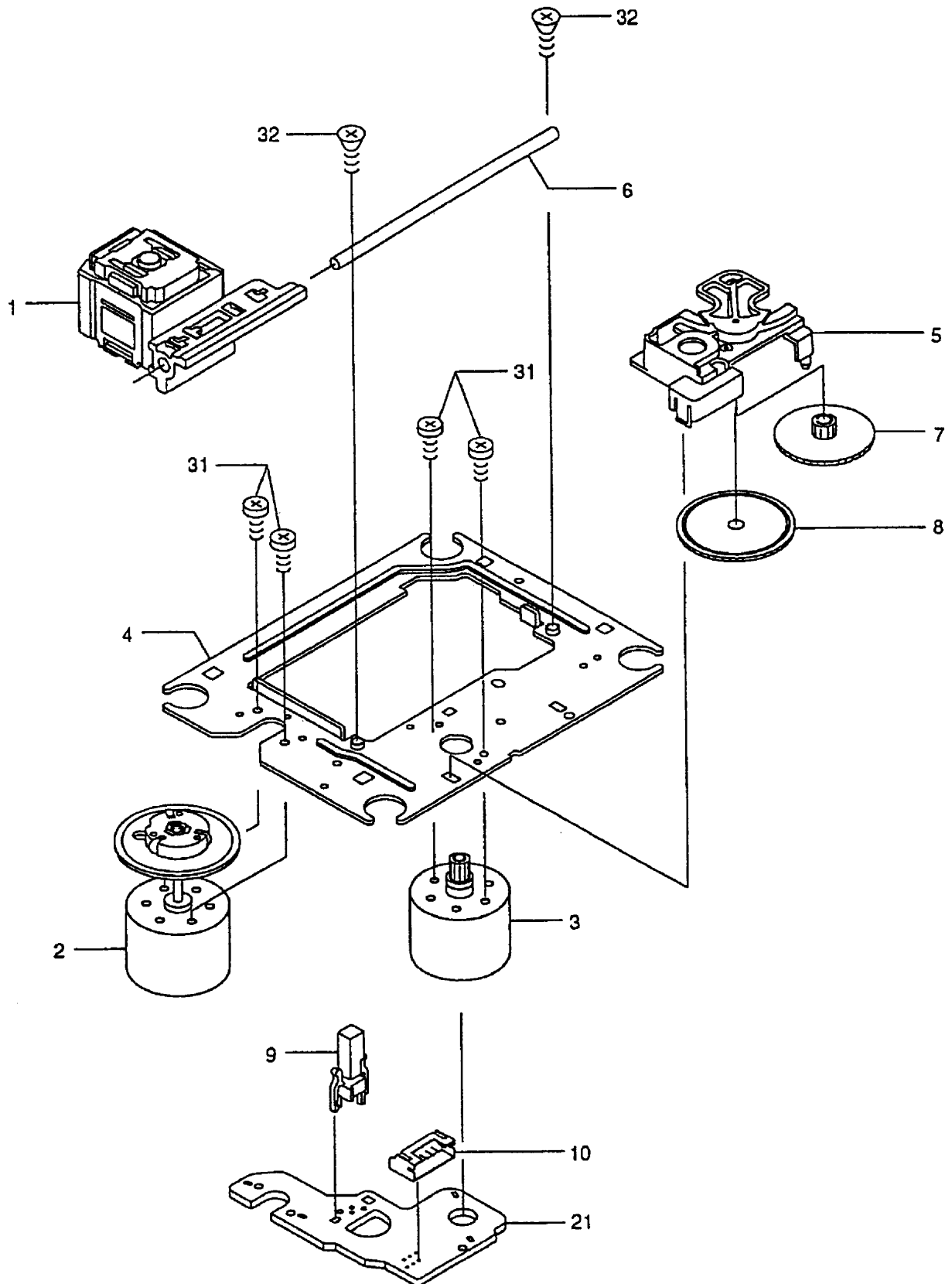
# CS-21V





# SANYO DA11B3V

## CD PLAYER MECHANISM EXPLODED VIEW



## Ersatzteilliste Spare Parts List

**NUR FÜR INTERNEN GEBRAUCH  
FOR INTERNAL USE ONLY**

# AUDIO

## 1 / 2005

## RRCD 3410

MATERIAL-NR. / PART NO.: 757123435000  
BESTELL-NR. / ORDER NO.: GDP5500 CHROM/CHROME

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG <b>(D)</b>	DESCRIPTION <b>(GB)</b>
		757123435000		<b>RRCD 3410 CHROM TAUSCHGERAET</b>	<b>RRCD 3410 CHROME EXCHANGE SET</b>
0001.000		759551089300		DECKEL CASS.	CASS. DOOR
0020.000		759551089200		FEDER CD TUER	CD DOOR SPRING
0021.000		759551101200		DECKEL CD	CD DOOR
0023.000		759550570500		SCHALTER TUER CD DLS02W	SWITCH DOOR CD DLS02W
0043.000		759551088900		LAUFWERK CASS. THL-21VB-1933A	CASS. MECHANISM THL-21VB-1933A
0044.000		759551089800		TASTENSATZ CASS. KPL.	CASSETTE KNOB (SET)
0058.000	△	759550615100		LAUFWERK CD DA11-T3CN	CD MECHANISM DA11-T3CN
0078.000		759551089400		TRAGEGRIFF	HANDLE
0084.000		759551089000		TELESKOPANTENNE TA78124	FM ROD ANTENNA TA78124
0086.000		759551089700		TUERE BATTERIEFACH	BATTERY DOOR
0093.000		759551089600		BATTERIEFACHABDECKUNG	BATTERY COVER
0094.000		759551089100		FEDER CASS. TUER	CASS. DOOR SPRING
0100.000	△	759525012400		NETZKABEL	POWER CORD
0900.000		720117135800		FERNBEDIENUNG	REMOTE CONTROL
0901.000		759551102000		BATT.FACHDECKEL FB	BATTERY DOOR RC
		720114049500		BEDIENUNGSANLEITUNG D/GB/F/I/P/E/NL/PL/DK/S/FIN	INSTRUCTION MANUAL D/GB/F/I/P/E/NL/PL/DK/S/FIN

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ÄNDERUNGEN VORBEHALTEN / SUBJECT TO ALTERATION