

Service Document **Exchange Set**

RRCD 1300

GRUNDIG

Service Manual

Sicherheit Safety

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.

Dieses Service Dokument ist nur in Datenform verfügbar

This Service Document is only available as data

Änderungen vorbehalten/Subject to alteration

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ALIGNMENT PROCEDURE

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	465KHz	TP5 Detector output terminal and ground	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 CF503 & CF504. 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 & TP4 (GND) in series with a 1000Pf capacitor, connect scope input terminal to TP5 & TP4 (GND), then the IF characteristic curve can be observed.

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	87.35 MHz (modulated)	Terminals across speaker voice coil	(Lowest end)	L502 (Osc. coil) stretch or squeeze	Maximum	Volume control at max. position
2		108.25 MHz (modulated)		(Highest end)	VC 501A (Osc. trimmer)		
3		88 MHz (modulated)		88 MHz	L503 (RF coil) stretch or squeeze		
4		106 MHz (modulated)		106 MHz	VC 501B (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)	T 502 (Osc. coil)	Maximum	Volume control at max. position
2		1635 KHz (modulated)		(Highest end)	VC 501C (Osc. trimmer)		
3		600 KHz (modulated)		600 KHz	L 504 (ant. coil)		
4		1400 KHz (modulated)		1400 KHz	VC 501D (ant. trimmer)		
5	Repeat steps 3 and 4 as necessary to minimize tracking error and also steps 1 and 2 if necessary						

ALIGNMENT PROCEDURE FOR CD SECTION

Applicable unit :

- 1 This model is using CD drive unit No. SANYO DA11B3V
- 2 The alignment for CD section is fully automatic and no adjustment is required

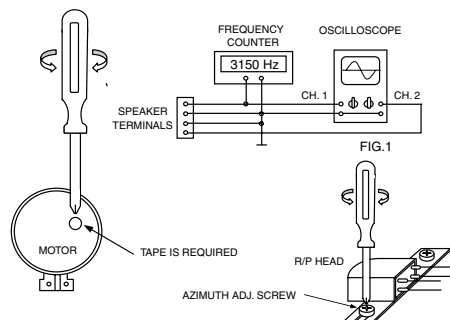
GENERAL PREPARATION - 1) Check source voltage, DC or AC according to specifications .

2) Set function switch to Tape being aligned .

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

(1) TAPE SPEED ADJUST

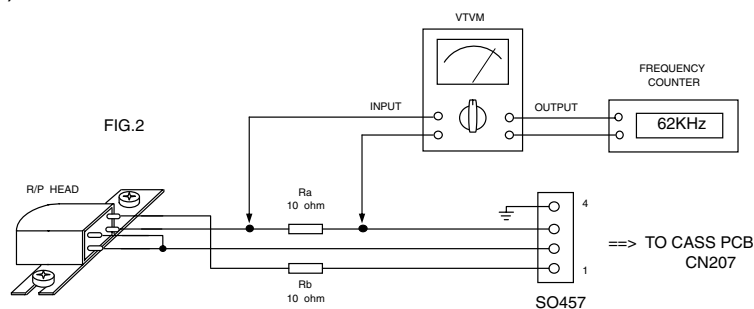
MTT-2111NA (3150 Hz) TEST °



(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.

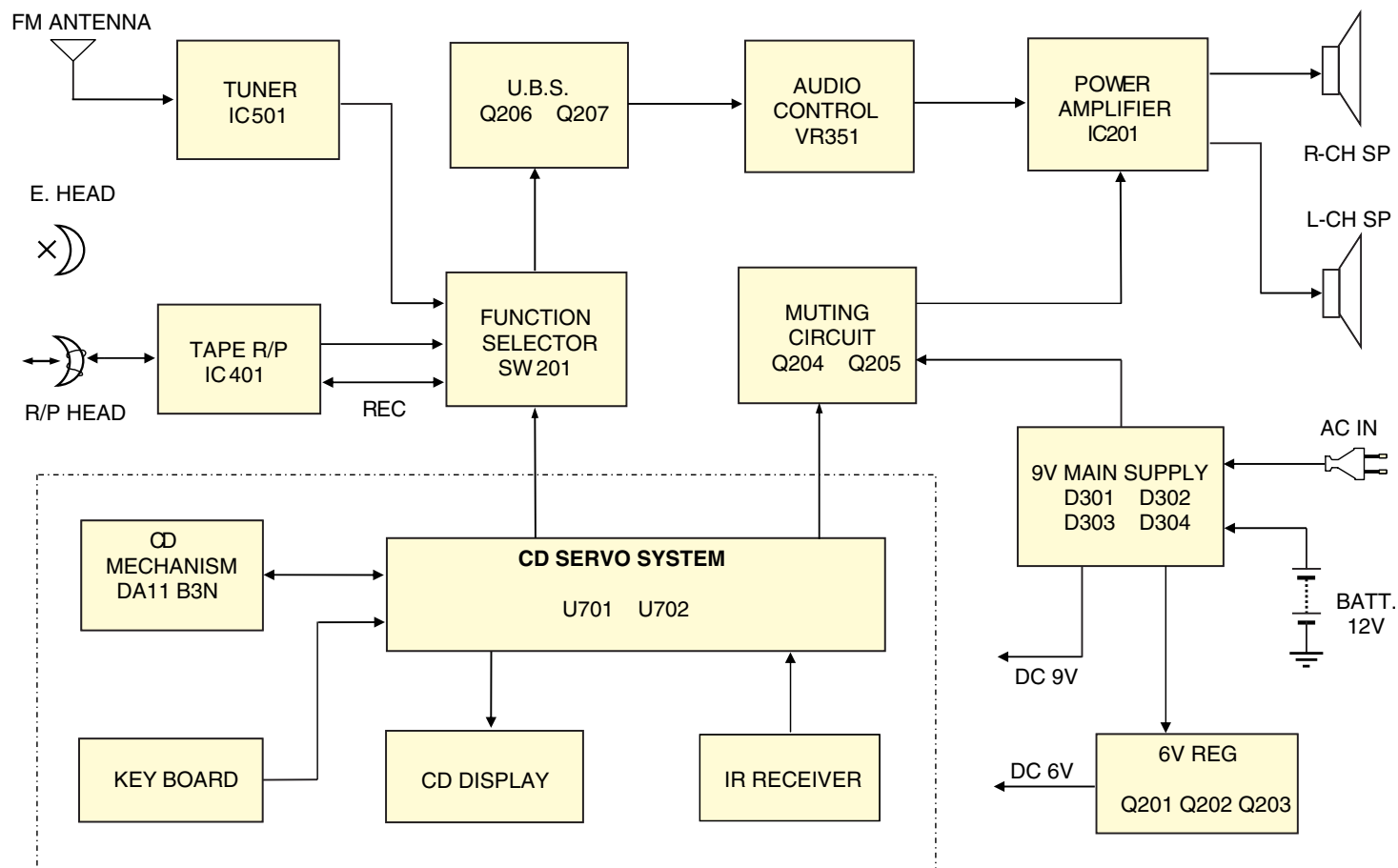
B) EQUIPMENTS REQUESTED FOR AC BIAS FREQUENCY / CURRENT ADJUSTMENT :

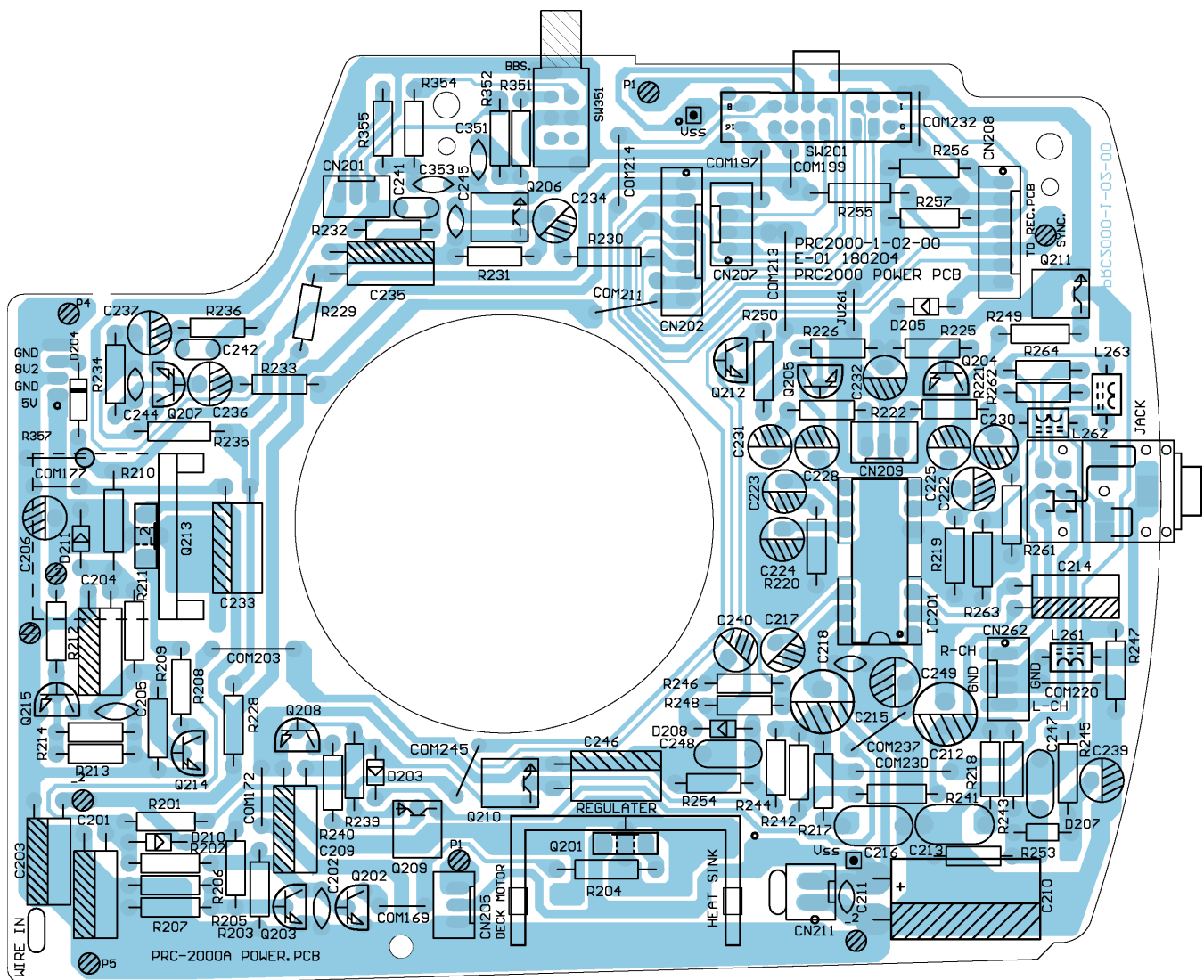


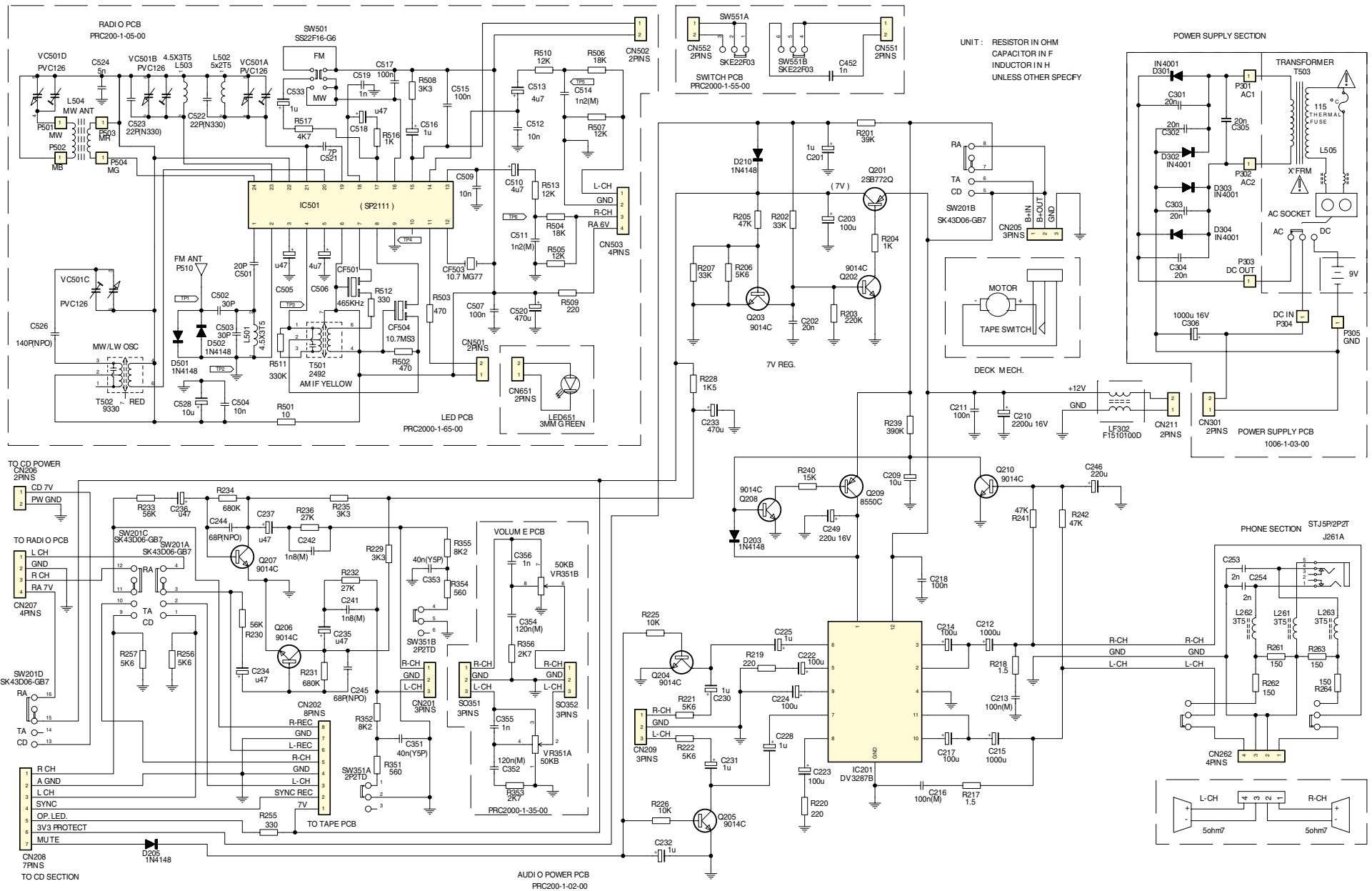
AC BIAS FREQUENCY ALIGNMENT :

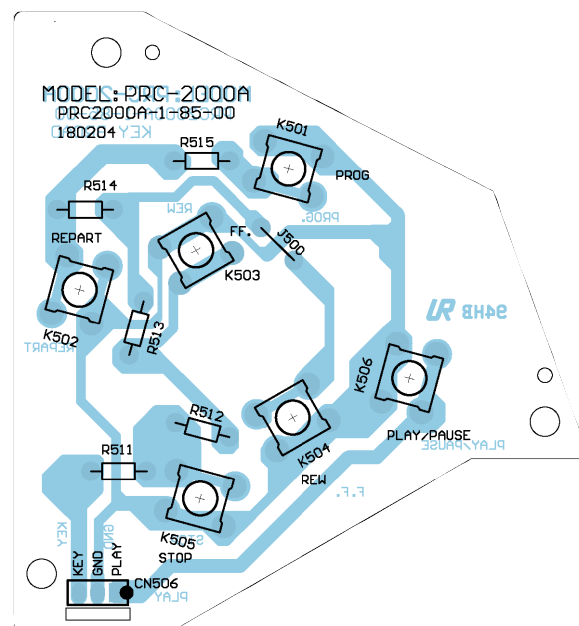
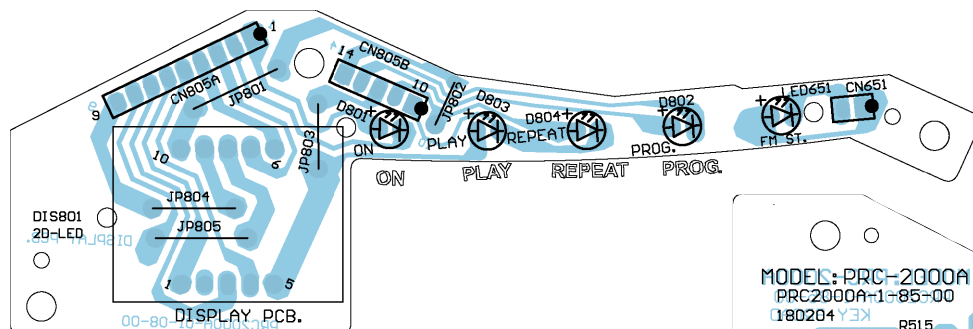
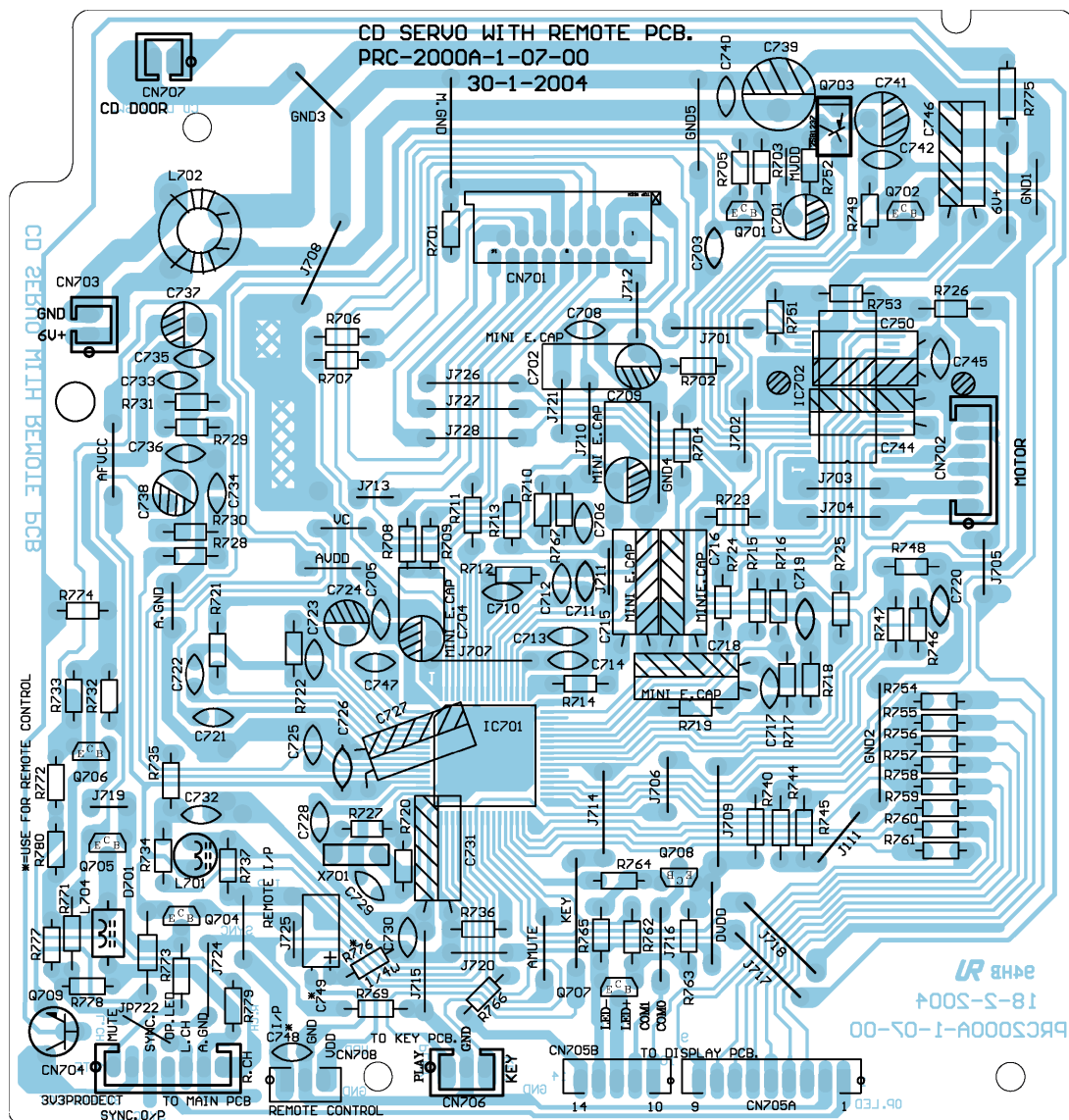
Note :The test unit should be keep in recording mode and added two resistors Ra & Rb as shown in the Fig. 2 before alignment. be sure to delete the both resistors Ra & Rb after alignment completed.

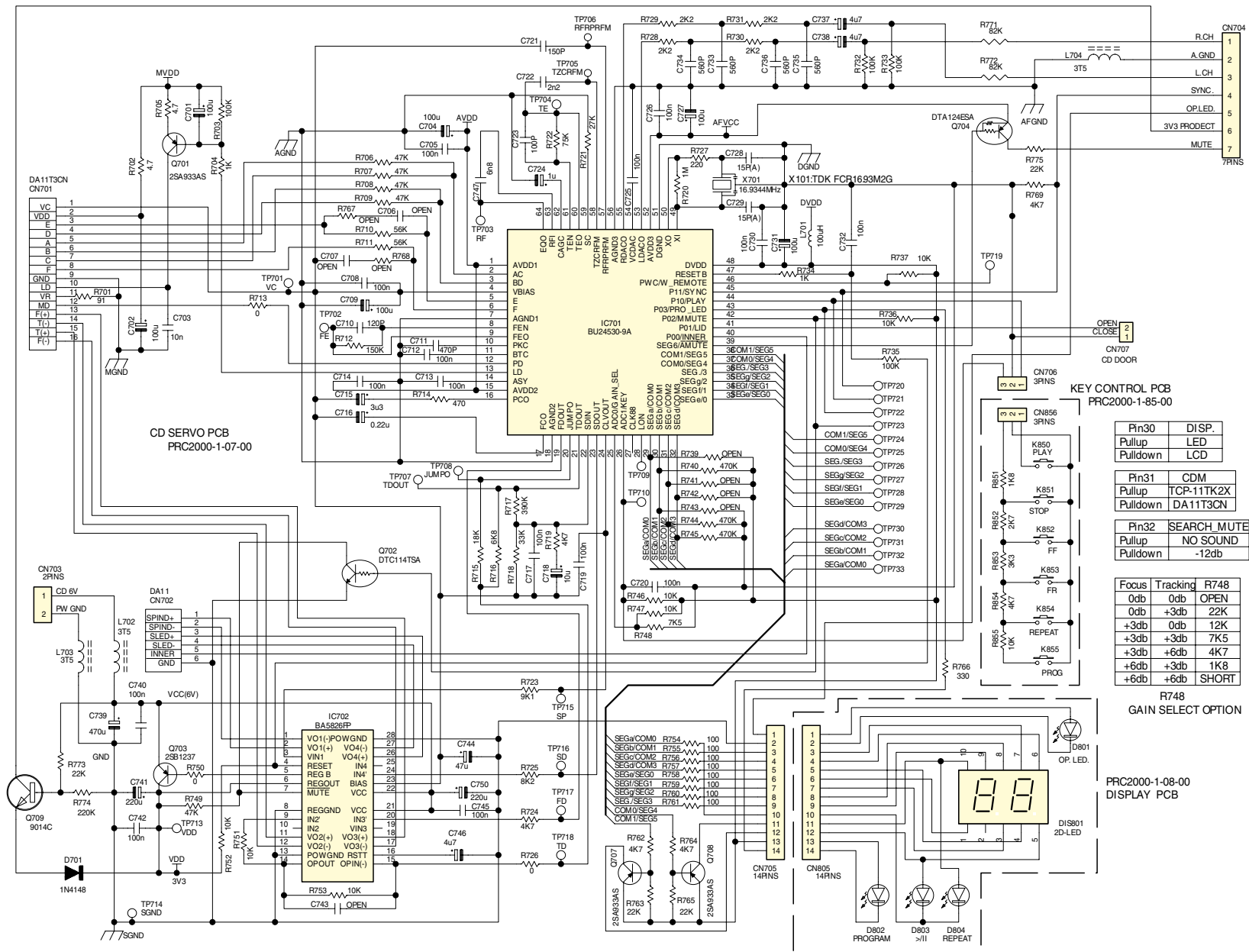
Test Point	Adjust	Frequency at Beat 0	Frequency Observe at		Observe		
			Beat 1	Beat 2	Beat 0	Beat 1	Beat 2
Resistor Ra or Rb	L401	60 KHz \pm 0.3K					

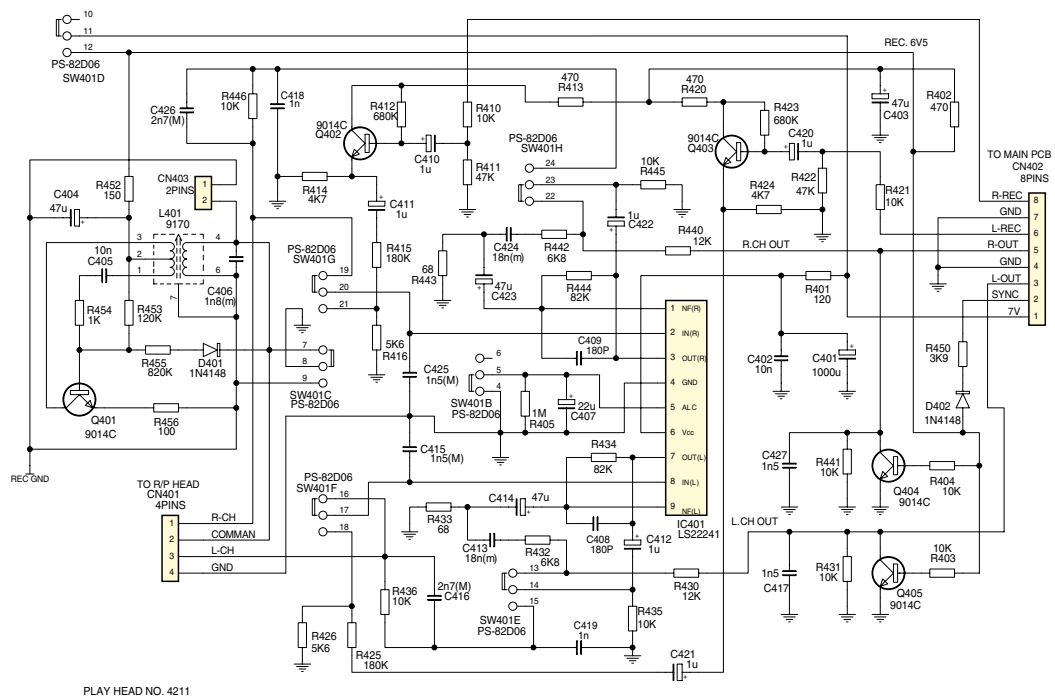
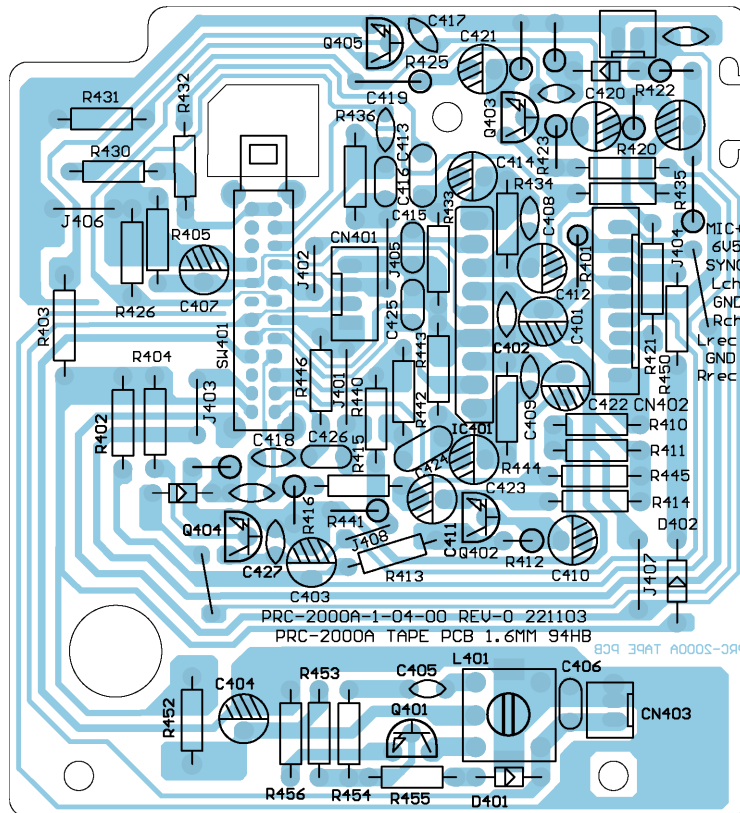




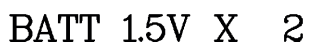


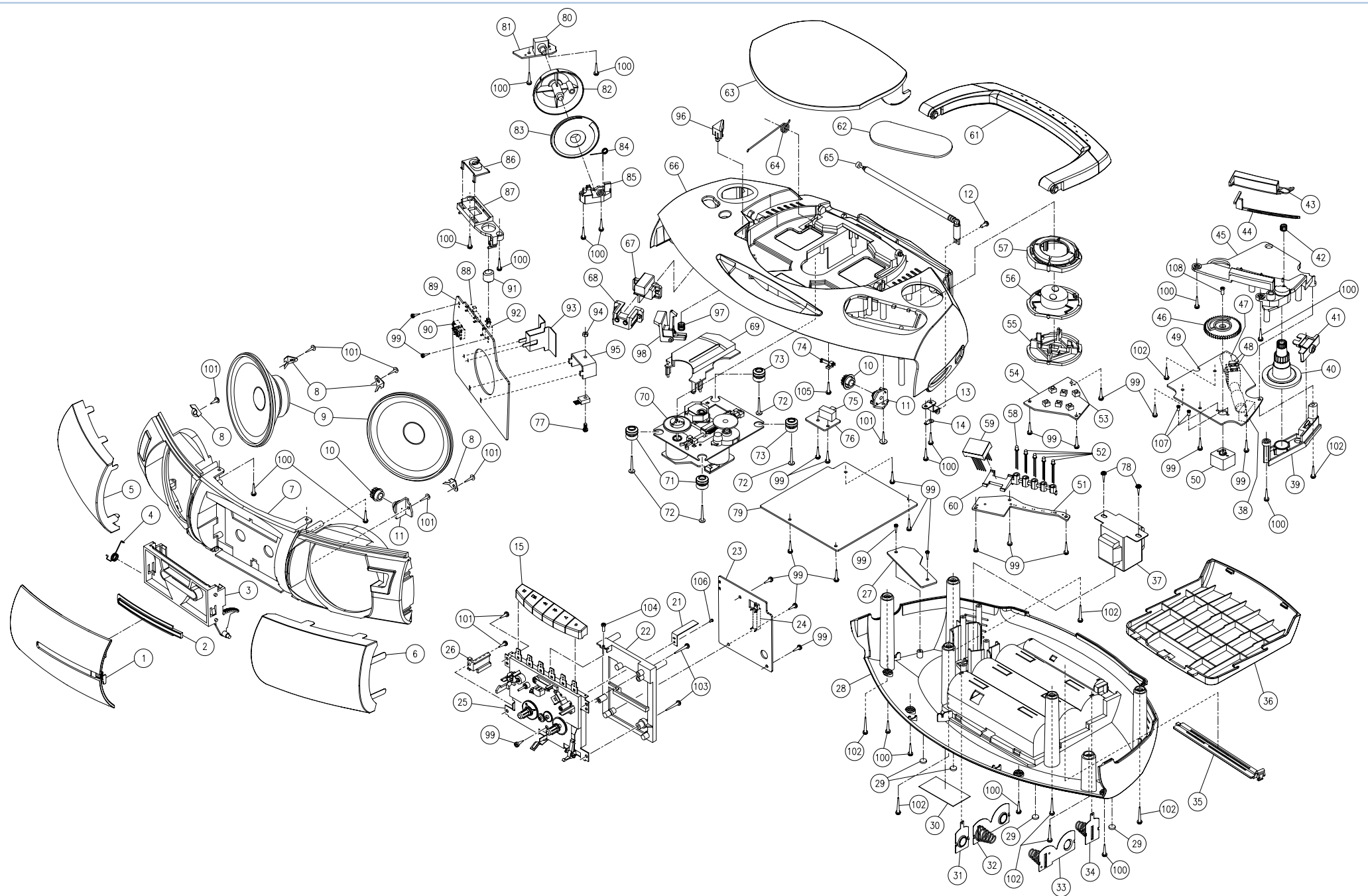






PLAY HEAD NO. 4211



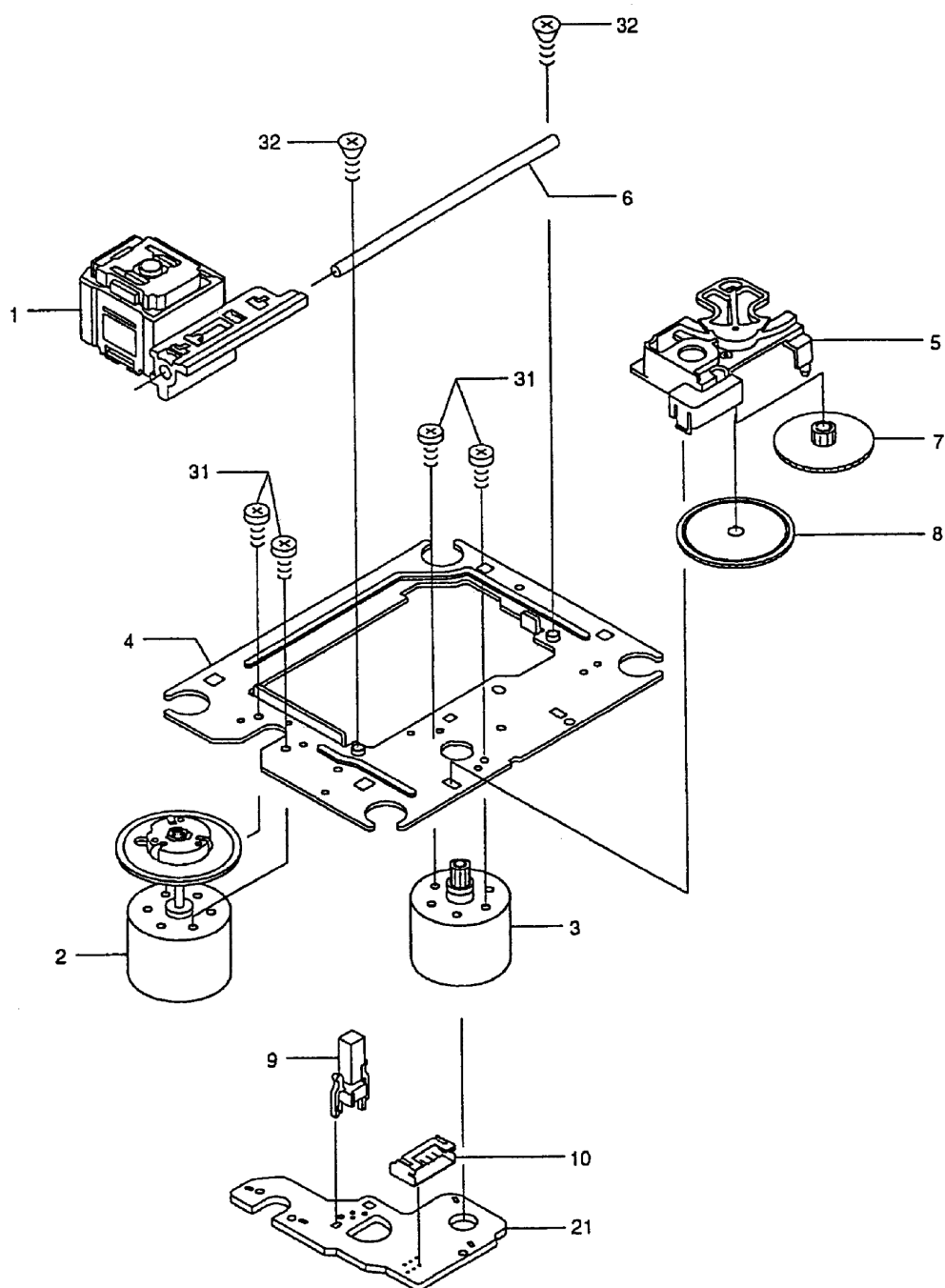


CS-21V

This technical drawing is an exploded view of a mechanical assembly, identified by the model number CS-21V in the top left corner. The diagram illustrates the relationship between various components, which are numbered from 1 to 86. The assembly includes a main housing (1), a central shaft (10), and a complex internal mechanism (14). Key components include a motor or actuator (58) at the bottom left, a series of gears or pulleys (59, 62), and a large circular component (64). The diagram also shows various mounting brackets (e.g., 2, 3, 4, 5, 6, 7, 8, 9), a control lever (21), and a series of small fasteners and pins (e.g., 11, 12, 13, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86). The diagram is a black and white line drawing with clear lines and numbers.

SANYO DA11B3V

CD PLAYER MECHANISM EXPLODED VIEW



Ersatzteilliste
Spare Parts List

NUR FÜR INTERNEN GEBRAUCH
FOR INTERNAL USE ONLY

AUDIO

3 / 2005

RRCD 1300

MATERIAL-NR. / PART NO.: 757123445000
BESTELL-NR. / ORDER NO.: GDP5600 CHROME/VERO

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG (D)	DESCRIPTION (GB)
		757123445000		RRCD 1300 CHROME/VERO TAUSCHGERAET	RRCD 1300 CHROME/VERO EXCHANGE SET
0001.000		759551128900		TUER CASSETTE	CASSETTE DOOR
0002.000		759551129300		LINSE TUER CASSETTE	CASSETTE DOOR LENS
0003.000		759551129500		EINSATZ CASSETTE	EMPLOYMENT CASSETTE
0004.000		759551128600		FEDER TUER CASSETTE	SPRING CASSETTE DOOR
0015.000		759551129400		TASTENSATZ CASSETTE	TASTE SET CASSETTE
0025.000		759551128500		LAUFWERK CASS. CS-21V-1006-C	CASS. MECHANISM CS-21V-1006-C
0035.000		759551129600		ABDECKUNG SPEICHERBATTERIE	DOOR BATTERIE MEMORY
0036.000		759551129100		BATTERIEFACHABDECKUNG	DOOR BATTERY
0061.000		759551129200		TRAGEGRIFF	HANDLE
0063.000		759551129000		TUER CD	CD DOOR
0064.000		759550615400		FEDER TUER CD 1,2MM	SPRING TUER CD 1,2MM
0065.000		759551128700		TELESKOPANTENNE	TELESKOPANTENNE
0070.000	△	759550615100		LAUFWERK CD DA11-T3CN	CD MECHANISM DA11-T3CN
0150.000	△	759551128800		NETZANSCHLUSSKABEL	AC POWER CORD
		720114052000		BEDIENUNGSNLEITUNG 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