

Service Document **Exchange Set**

RRCD 3400 MP3

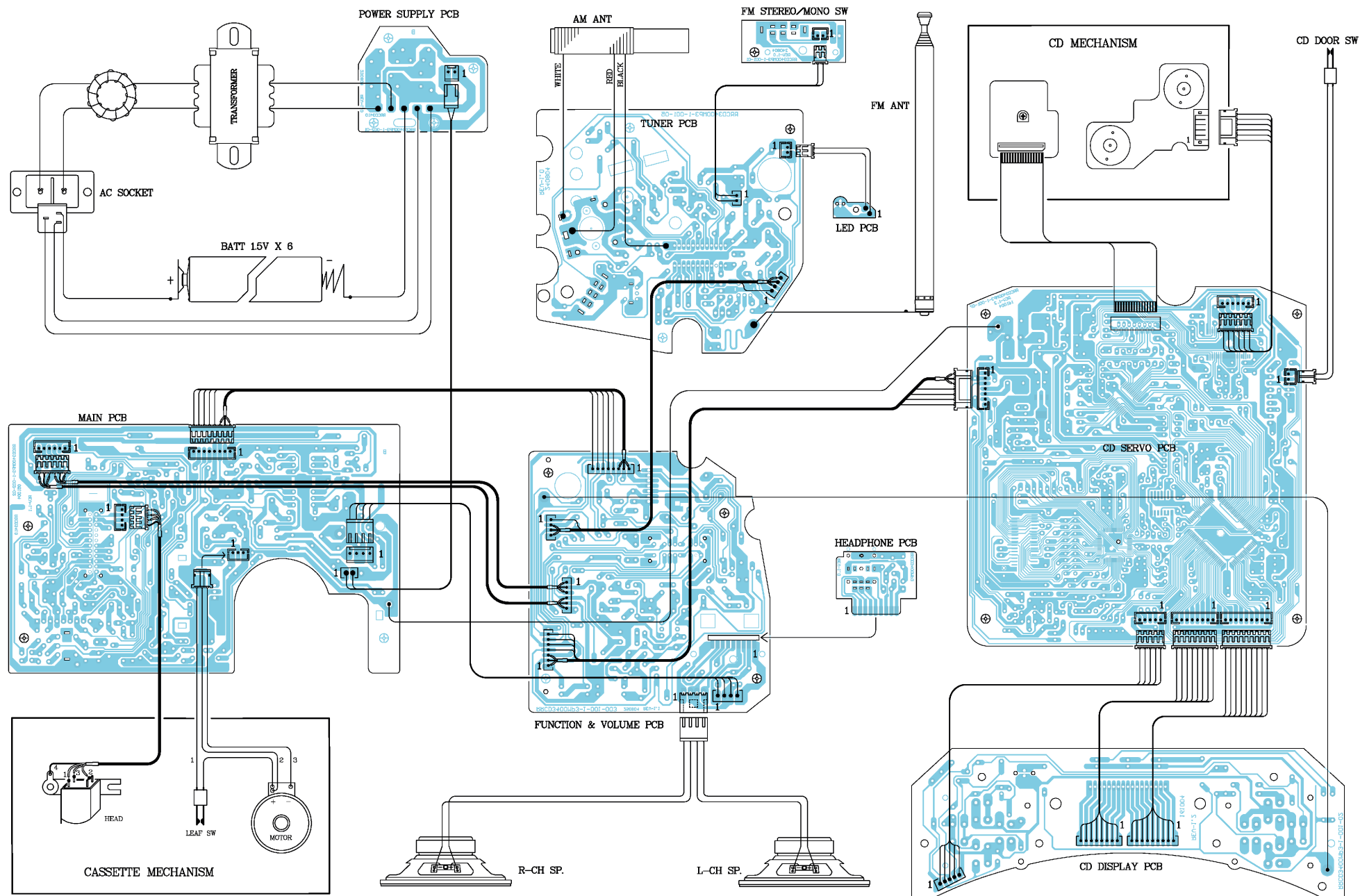
Service Manual
Sicherheit
Safety
Materialnr./Part No. 720108000001

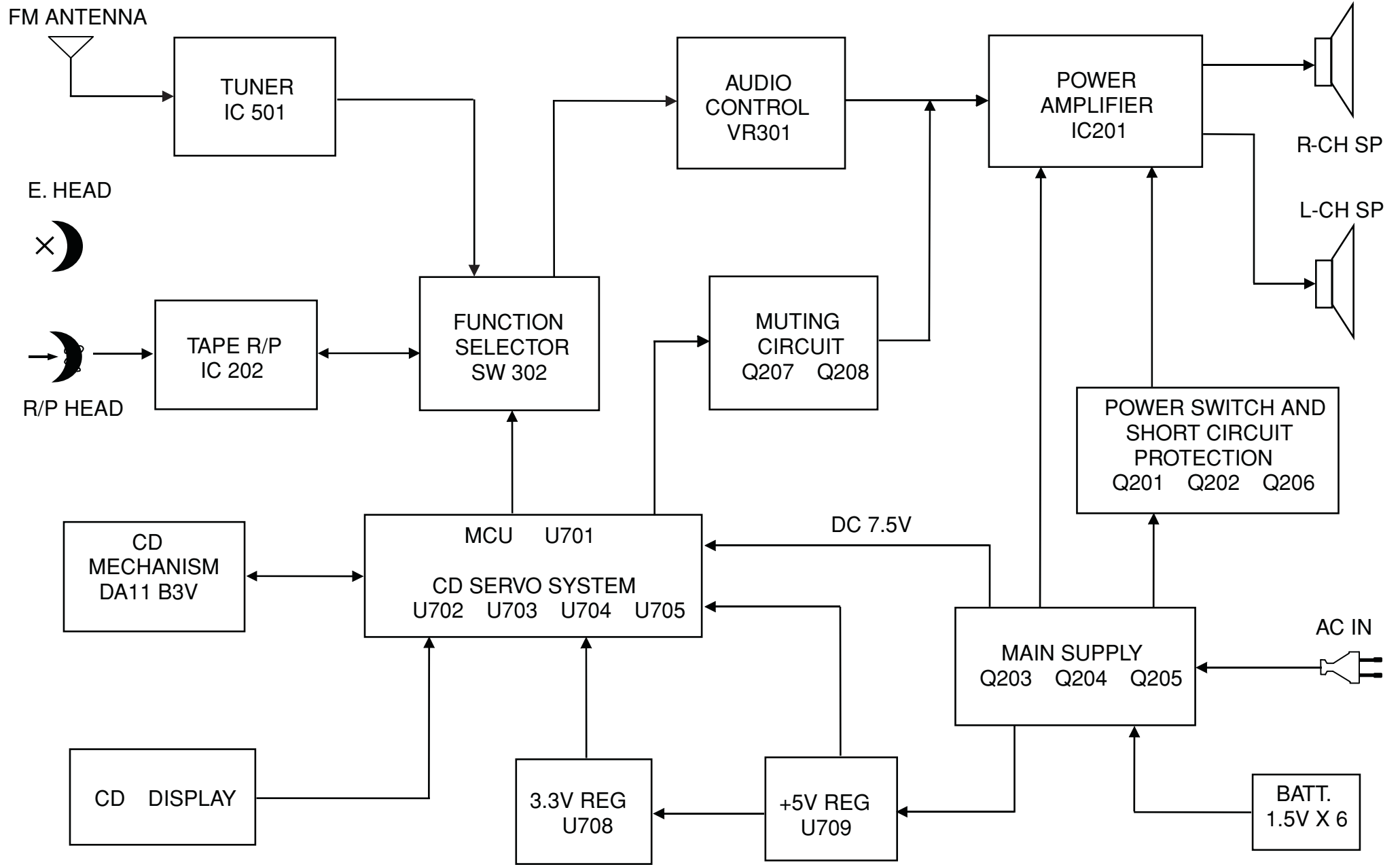


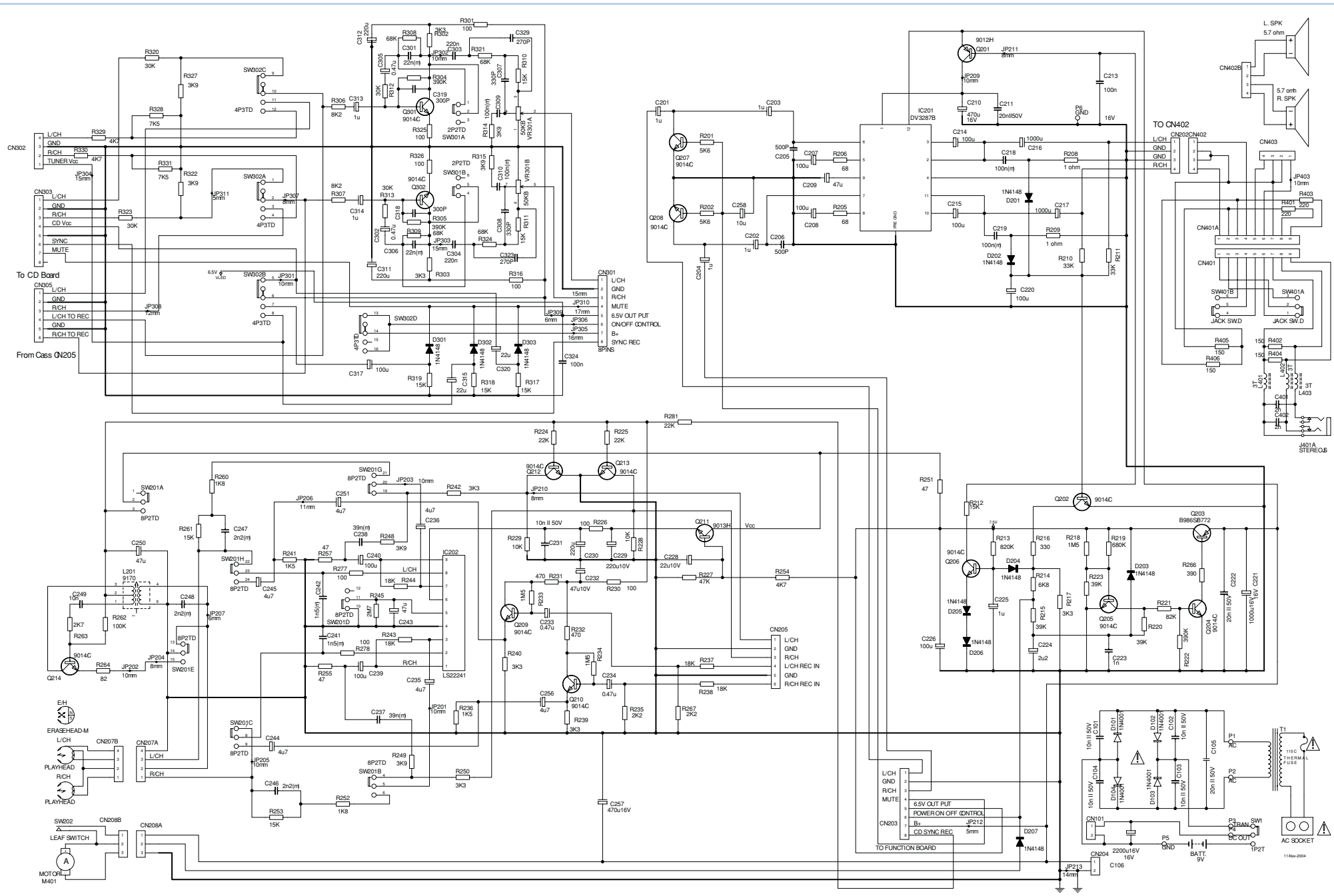
Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!

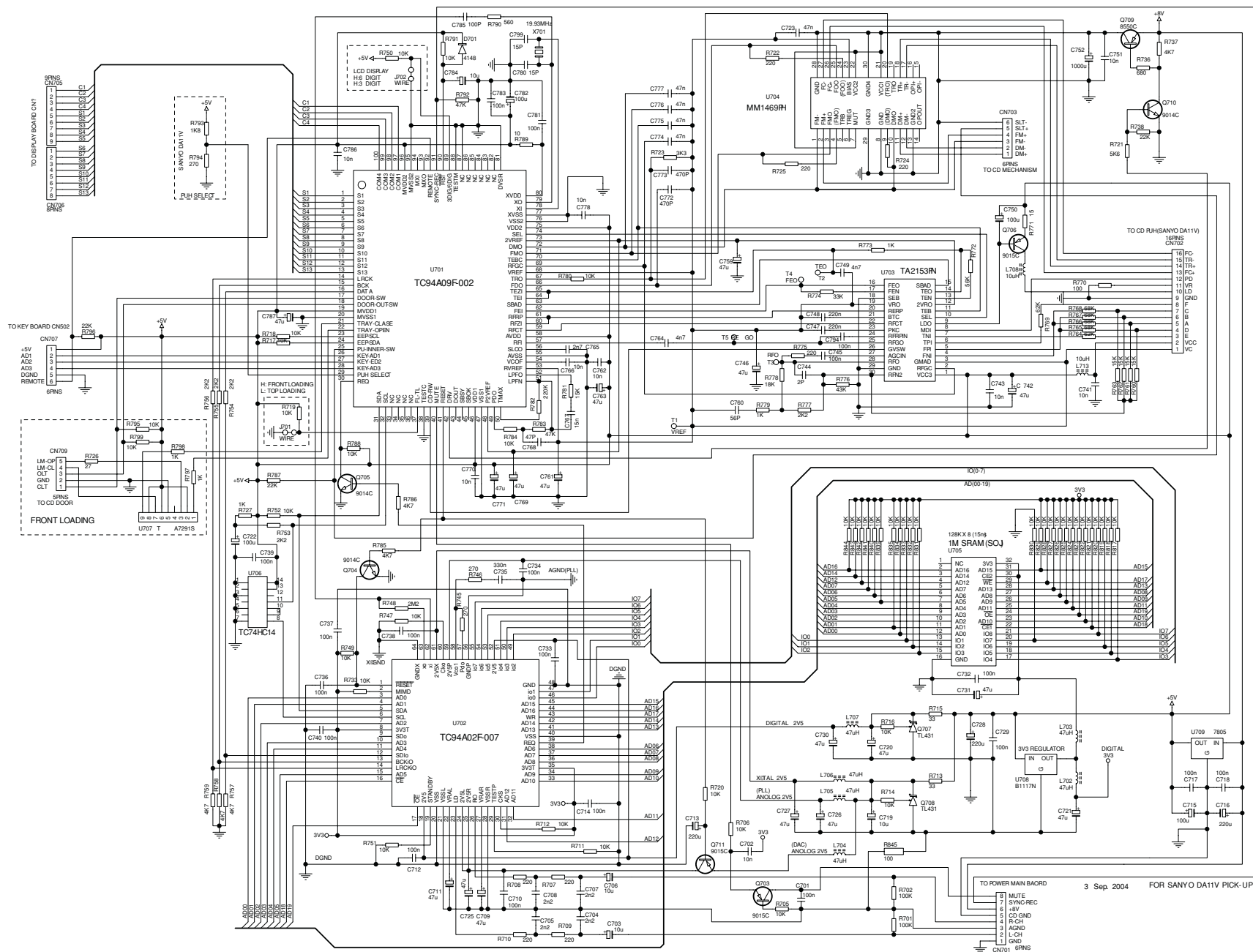


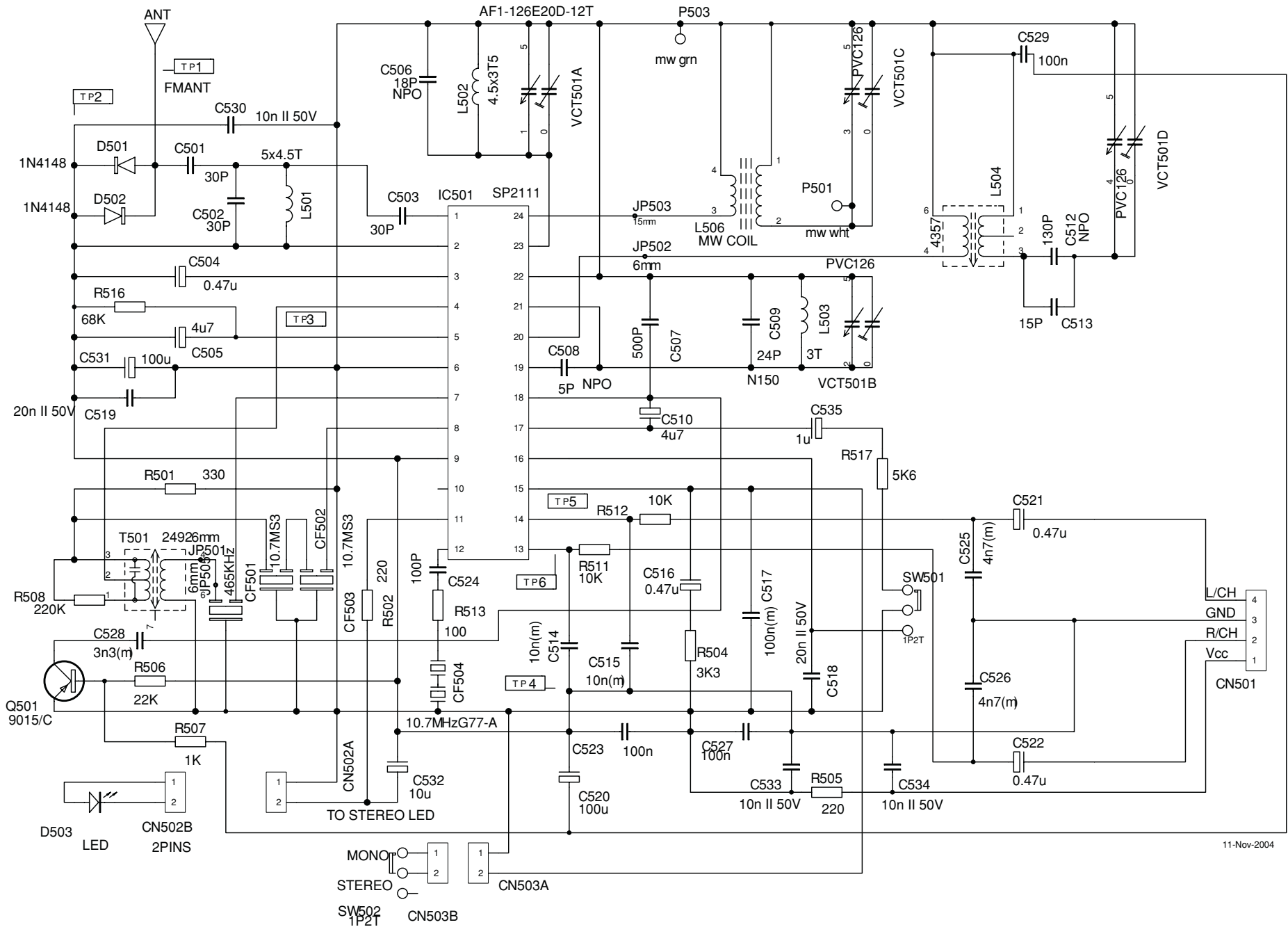
The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.





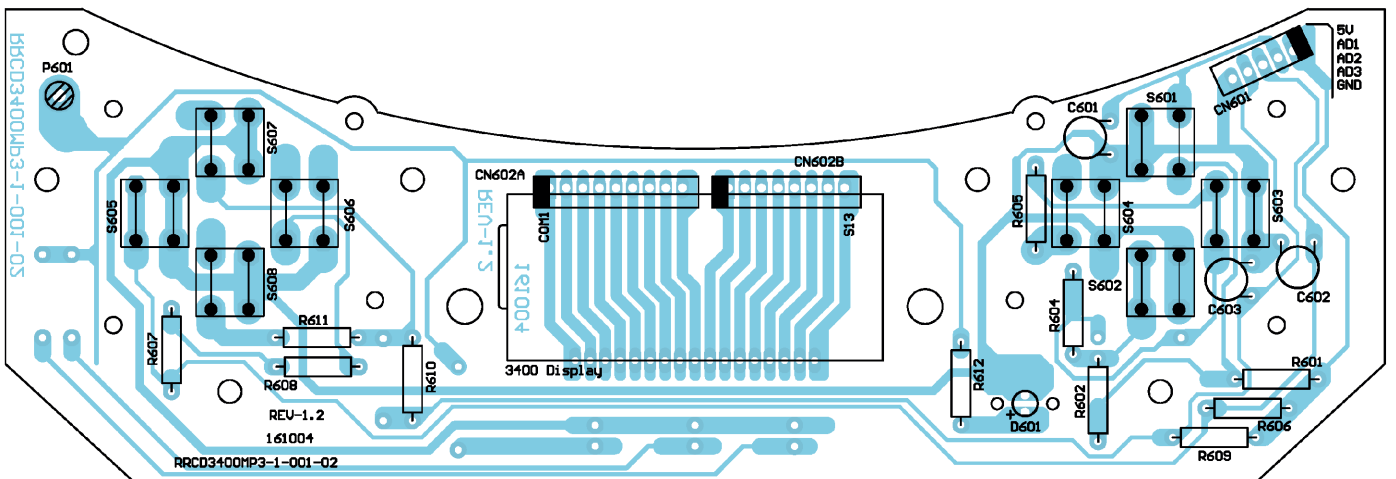
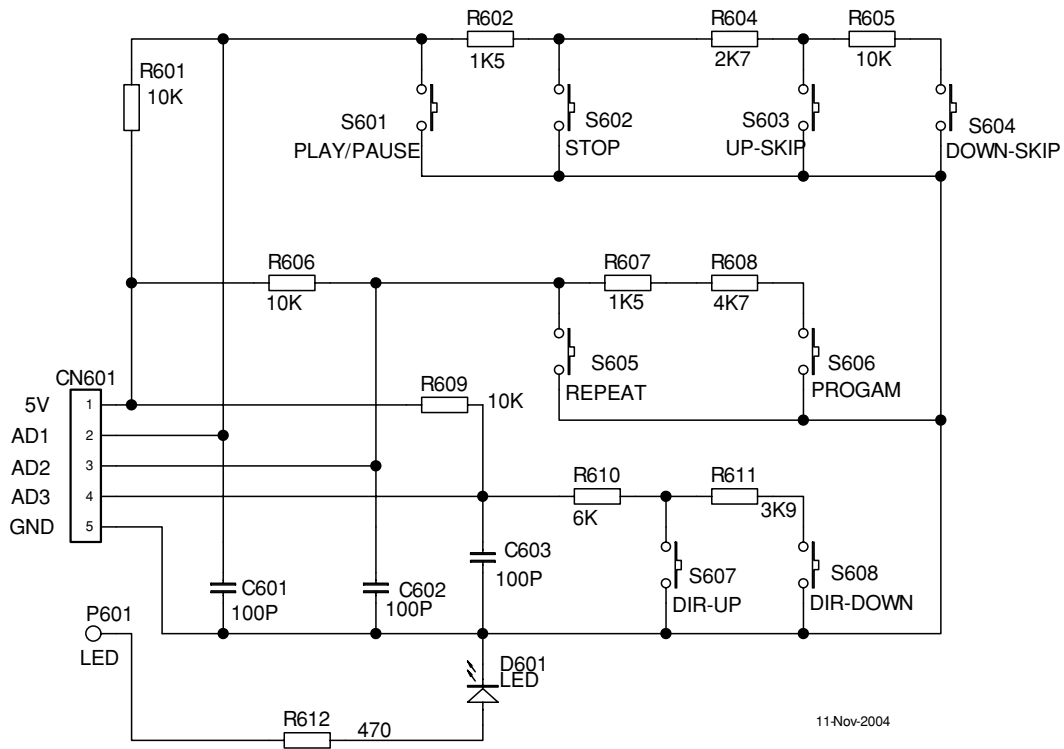
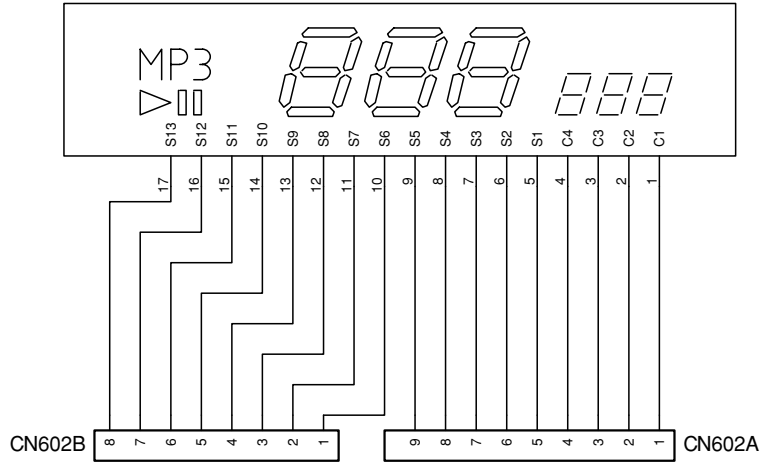


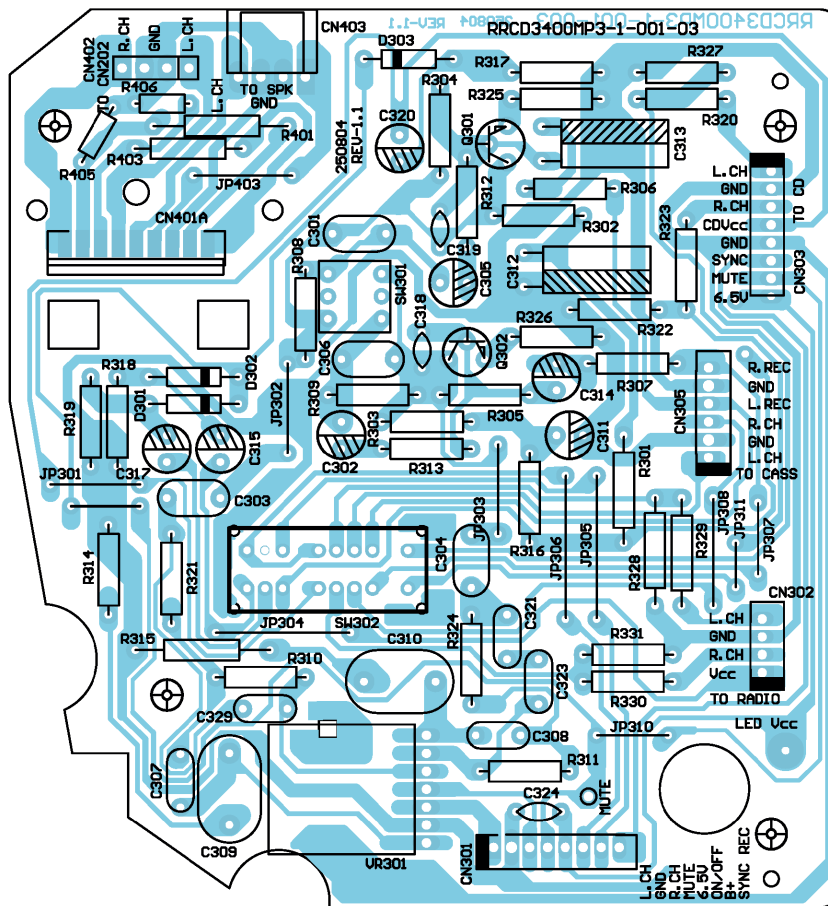
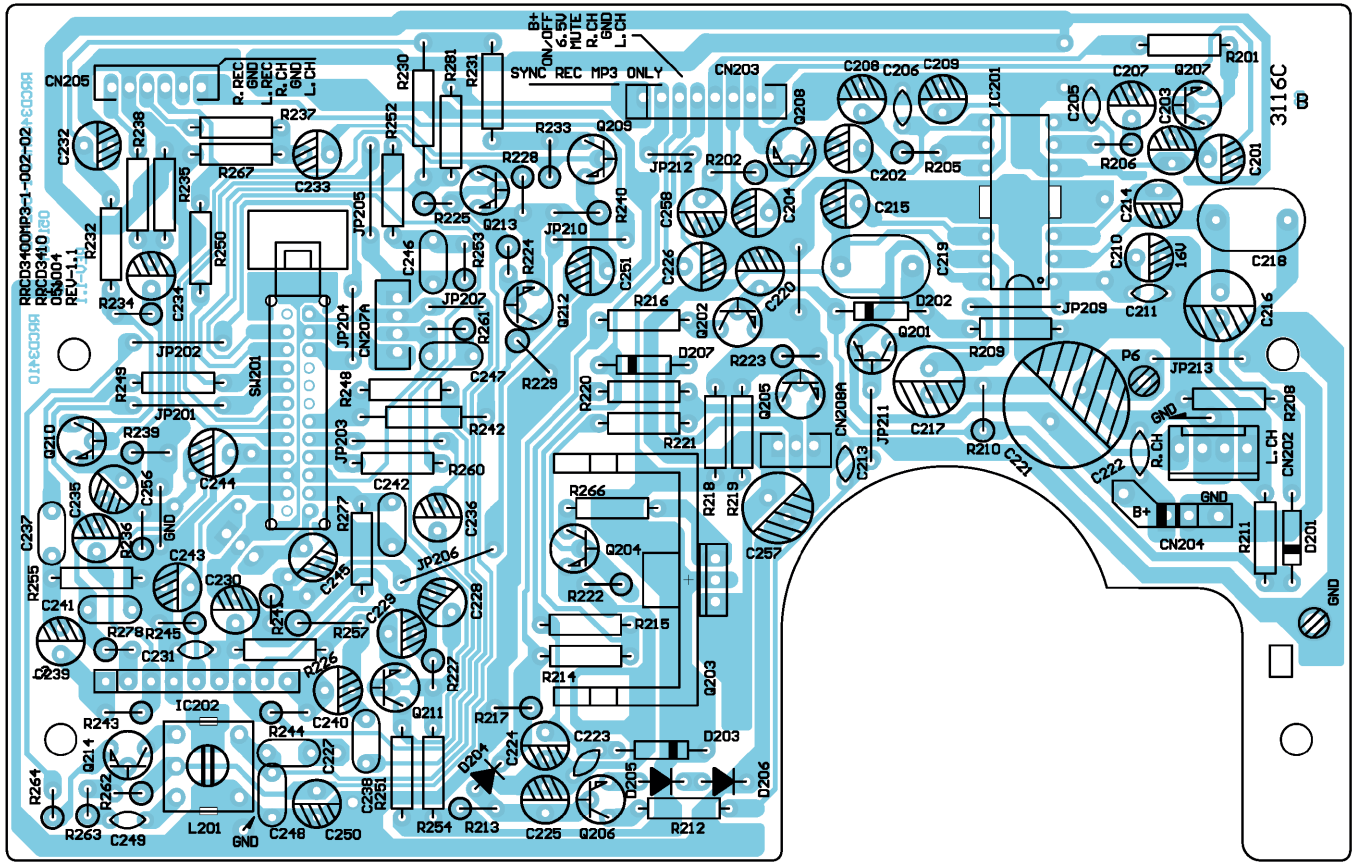


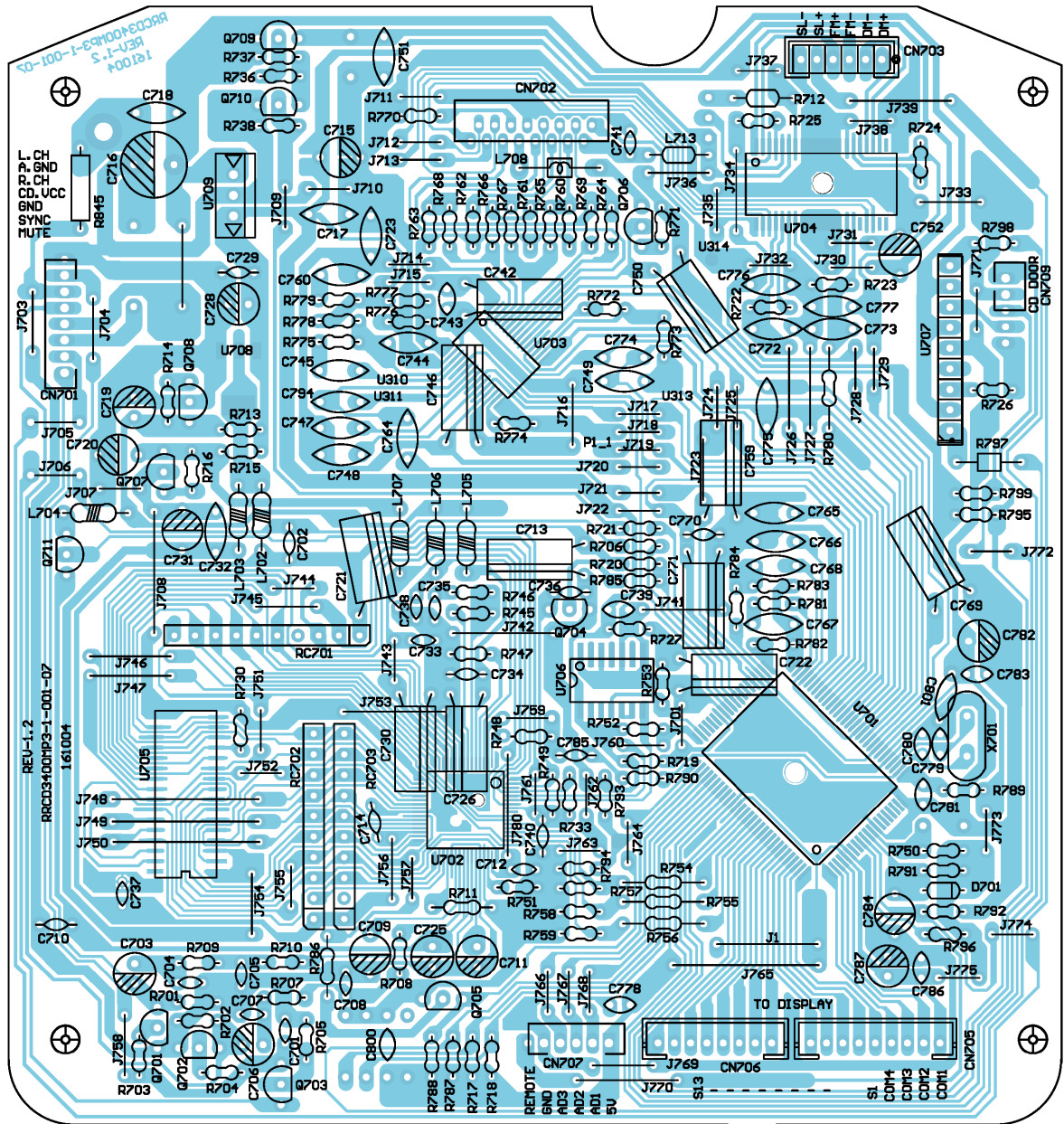


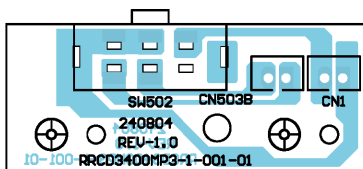
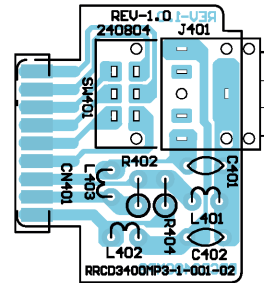
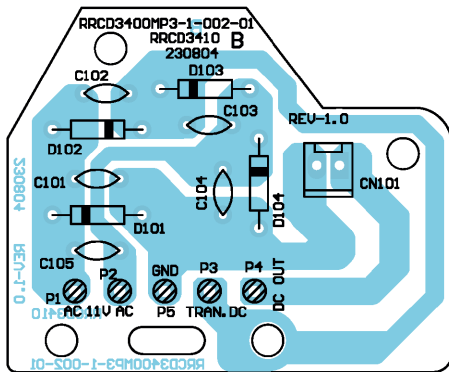
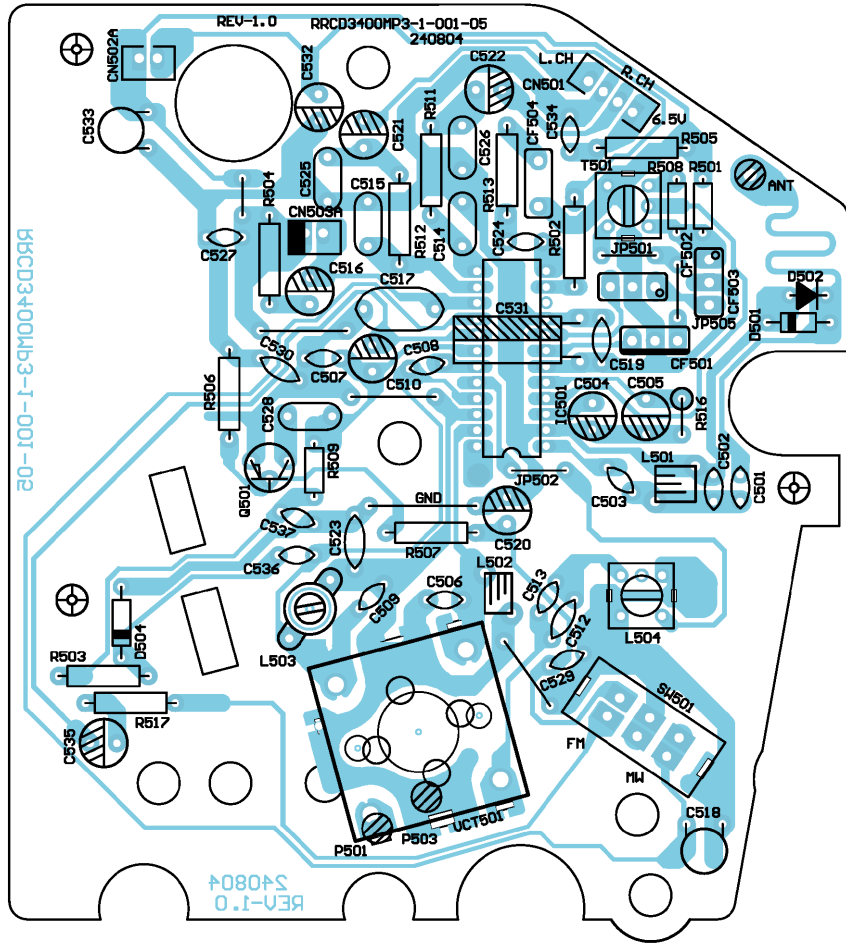
11-Nov-2004

3400 Display CSL-83112









ALIGNMENT PROCEDURE

GRUNDIG RRCD3400MP3

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 OR TP6 Detector output terminal and TP4 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 CF51,CF502. 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 or TP6 & 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)	L503 (Osc. coil) stretch or squeeze	Maximum	Volume control at max. position
2		108.25 MHz (modulated)		(Highest end)	VCT 501B (Osc. trimmer)		
3		88 MHz (modulated)		88 MHz	L502 (RF coil) stretch or squeeze		
4		106 MHz (modulated)		106 MHz	VCT 501A (RF trimmer)		
5	Repeat steps 3 and 4 as necessary to minimize tracking error and also steps 1 and 2 if necessary						

FM MPX ALIGNMENT (NA)

SIGNAL SOURCE	SET SIGNAL TO	ALIGNMENT INDICATOR (Frequency Counter) CONNECT TO	SET RADIO DIAL TO	ADJUST	ADJUST FOR	REMARKS

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)	L 504 (Osc. coil)	Maximum	Volume control at max. position
2		1630 KHz (modulated)		(Highest end)	VCT 501D (Osc. trimmer)		
3		558 KHz (modulated)		558 KHz	L506 (ant. coil)		
4		1440 KHz (modulated)		1440 KHz	VCT 501C (ant. trimmer)		
5	Repeat steps 3 and 4 as necessary to minimize tracking error and also steps 1 and 2 if necessary						

LW RF ALIGNMENT (NA)

STEP	SIGNAL SOURCE (LW 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.	(modulated)	across speaker voice coil	(Lowest end)		Maximum	Volume control at max. position
2		(modulated)		(Highest end)	(Osc. trimmer)		
3		(modulated)			(ant. coil)		
4		(modulated)			(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 -

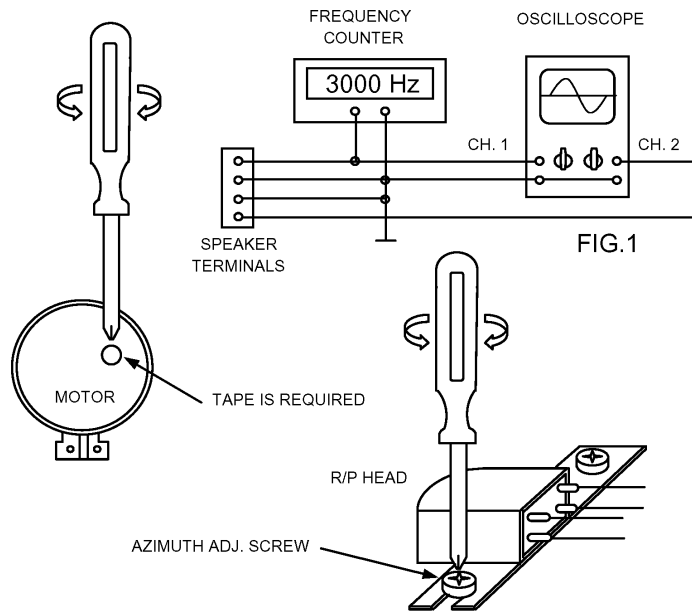
1) Check source voltage, DC or AC according to specifications .

2) Set function switch to Tape being aligned .

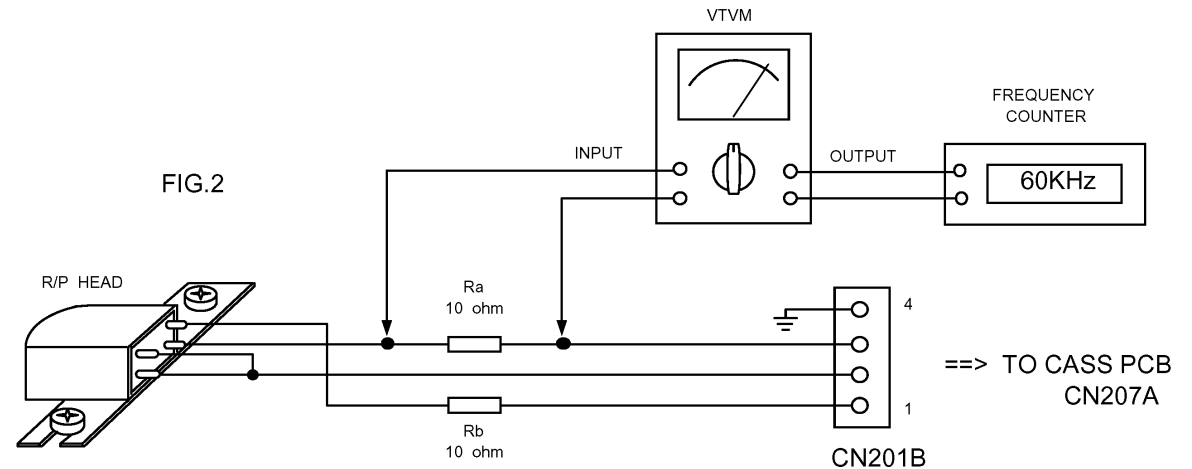
A) MEASURING INSTRUMENTS REQUIRED FOR TAPE SPEED AND HEAD AZIMUTH ADJUSTMENT.

(1) TAPE SPEED ADJUST

MTT-111N (3000 Hz) TEST .



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



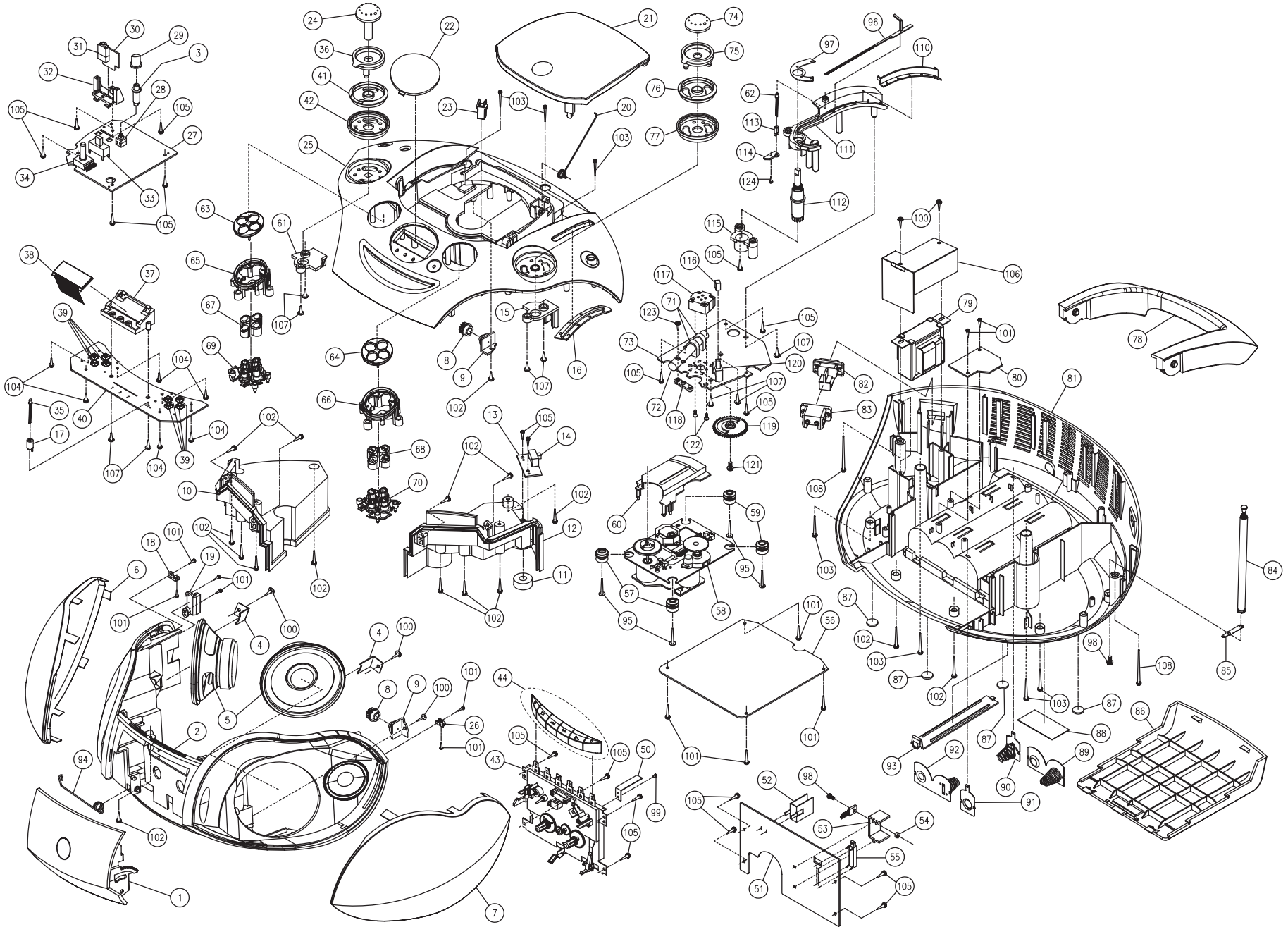
AC BIAS FREQUENCY ALIGNMENT :

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.

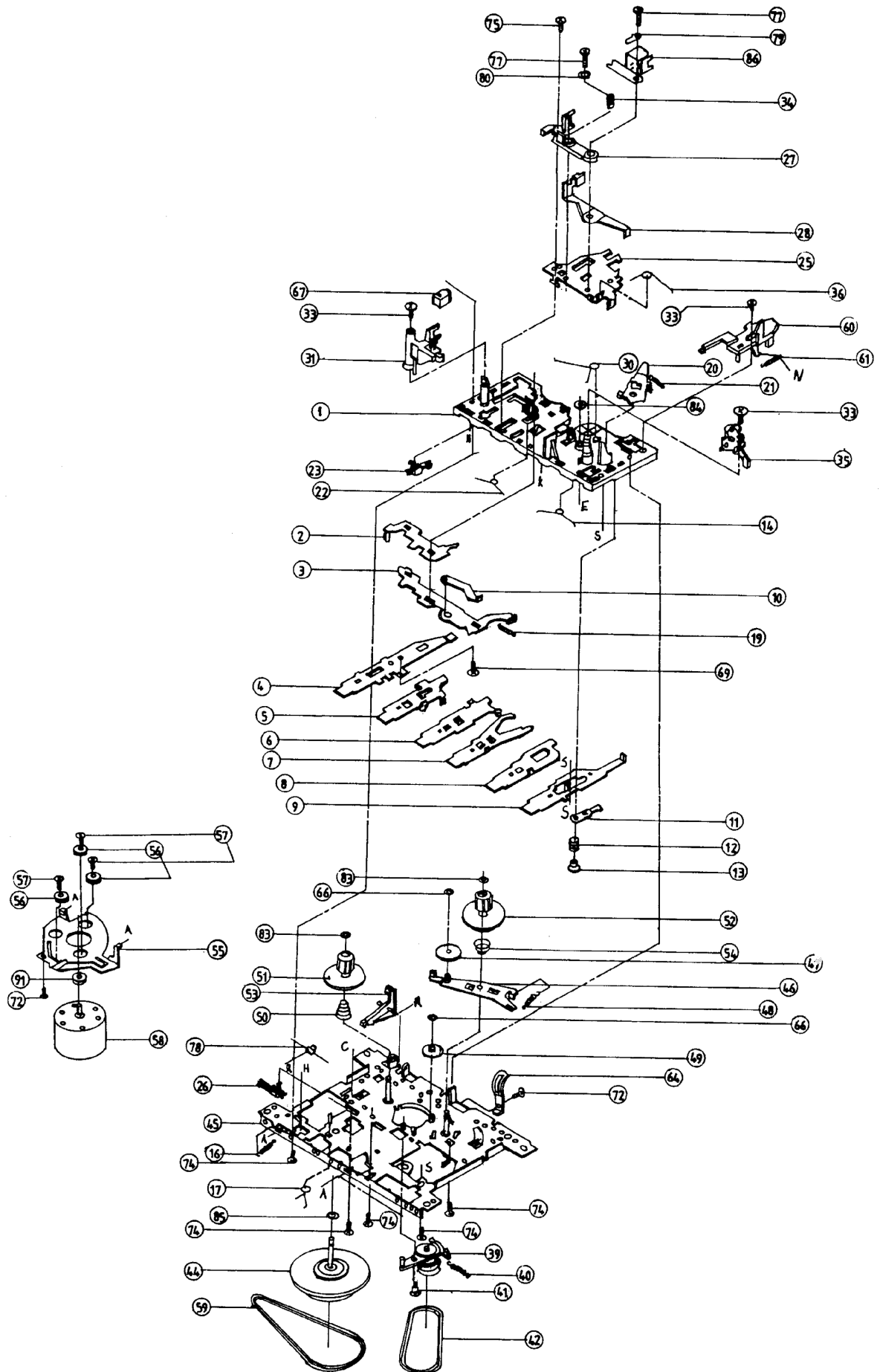
(2) HEAD AZIMUTH ADJUSTMENT .

- 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.

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	60 KHz ± 1K					

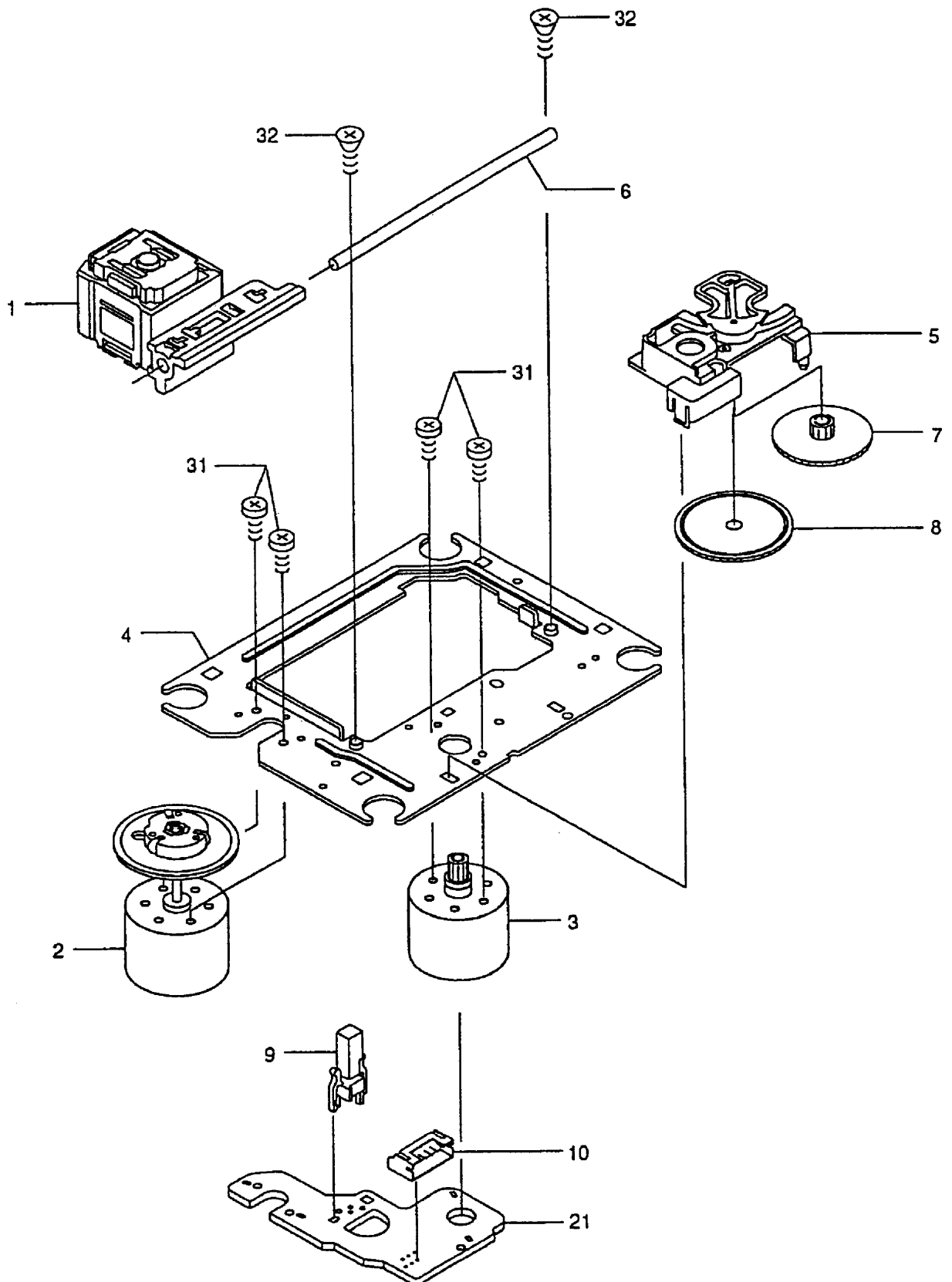


CS-21V



SANYO DA11B3V

CD PLAYER MECHANISM EXPLODED VIEW



Ersatzteilliste Spare Parts List





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

AUDIO

11 / 2004

RRCD 3400 MP 3

MATERIAL-NR. / PART NO.: 757123425000
BESTELL-NR. / ORDER NO.: GDP5400

POS. NR. POS. NO.	ABB. FIG.	MATERIAL-NR. PART NUMBER	ANZ. QTY.	BEZEICHNUNG 	DESCRIPTION 
		757123425000		RRCD 3400 MP3 CHROM TAUSCHGERAET	RRCD 3400 MP3 CHROME EXCHANGE SET
0001.000		759551089300		DECKEL CASS.	CASS. DOOR
0020.000		759551089200		FEDER CD TUER	CD DOOR SPRING
0021.000		759551089500		DECKEL CD	CD DOOR
0043.000		759551088900		LAUFWERK CASS. THL-21VB-1933A	CASS. MECHANISM THL-21VB-1933
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
		720114049000		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