

CFD-360/370

SERVICE MANUAL

AEP Model
UK Model

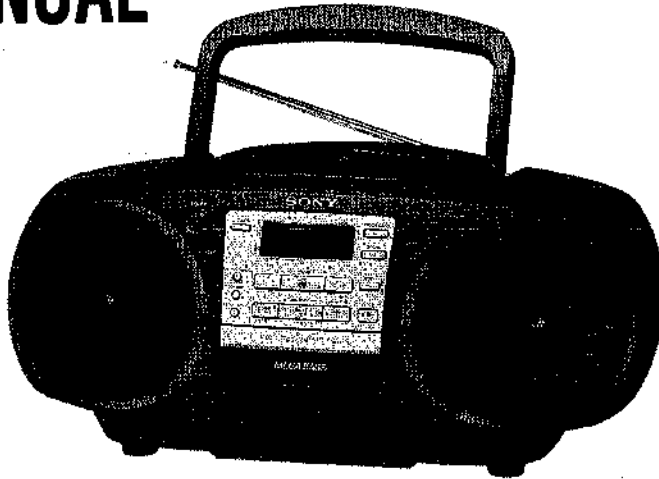


Photo : CFD-360

Model Name Using	CD Section	NEW
Similar Mechanism	Tape Section	NEW
Optical Pick-up Type		KSM-213BAN/S-N
Tape Transport Mechanism Type		MF-CFD360

SPECIFICATIONS

CD player section

System	Compact disc digital audio system
Laser diode properties	Material : GaAlAs Wave length : 780nm Emission duration : Continuous Laser output : Less than 44.6μW (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical Pick-up block with 7mm aperture.)
Spindle speed	200 r / min (rpm) to 500 r / min (rpm) (CLV)
Number of channels	2
Frequency response	20 - 20,000 Hz +1 / -1 dB
Wow and flutter	Below measurable limit

Radio section

Frequency range	FM AEP, UK, German model : 87.6-107MHz Italian model : 87.5-108MHz
	AM 531-1,602kHz
IF	FM : 10.7MHz AM : 450kHz
Aerials	FM : Telescopic aerial AM : Built-in ferrite bar aerial

Cassette-corder section

Recording system	4-track 2 channel stereo
Fast winding time	Approx. 120 s (sec.) with sony cassette C-60
Frequency response	TYPE I (normal) : 80-10,000Hz

General

Speaker	Full range : 10 cm (4 in) dia., 3.0 ohms, cone type (2)
Outputs	Headphones jack (stereo minijack) For 16-68 ohms impedance headphones
Maximum power output	4.5W + 4.5W

Power requirements

For CD radio cassette-corder

UK model :

230-240 V AC, 50Hz

AEP, Italian, German model :

220-230 V AC, 50Hz

For memory back-up :

6V DC, 4R6 (size AA) batteries

For remote commander :

3V DC, 2R6 (size AA) batteries (CFD-370)

AC 25 W

Power consumption

Battery life

For CD radio cassette-corder

FM recording

Sony R14P : approx. 6.5 h

Sony alkaline LR14 : approx. 12 h

Tape playback

Sony R14P : approx. 3 h

Sony alkaline LR14 : approx. 6 h

CD playback

Sony R14P : approx. 1.5 h

Sony alkaline LR14 : approx. 3 h

Dimensions

Approx. 400 x 175 x 240 mm (w/h/d)

(15 3/4 x 7 x 9 1/2 inches) (incl. projecting parts)

Mass

Approx. 3.9 kg (8 lb. 10oz) (incl. batteries)

Supplied accessories

AC power cord (1)

Remote control (1) (CFD-370)

Design and specifications are subject to change without notice.

CD RADIO CASSETTE-CORDER

SONY®



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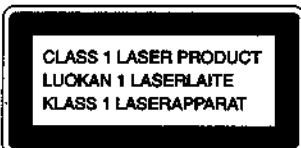
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CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

For customers in Europe



This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

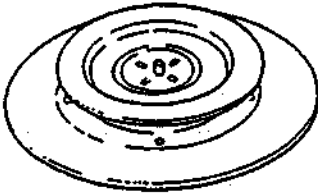
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

CHUCK PLATE JIG ON REPAIRING

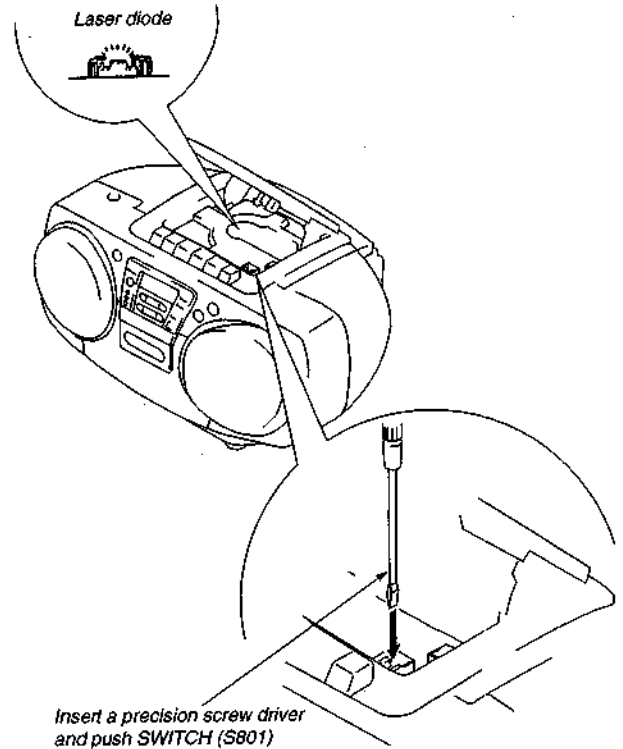
On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig : X-4918-255-1



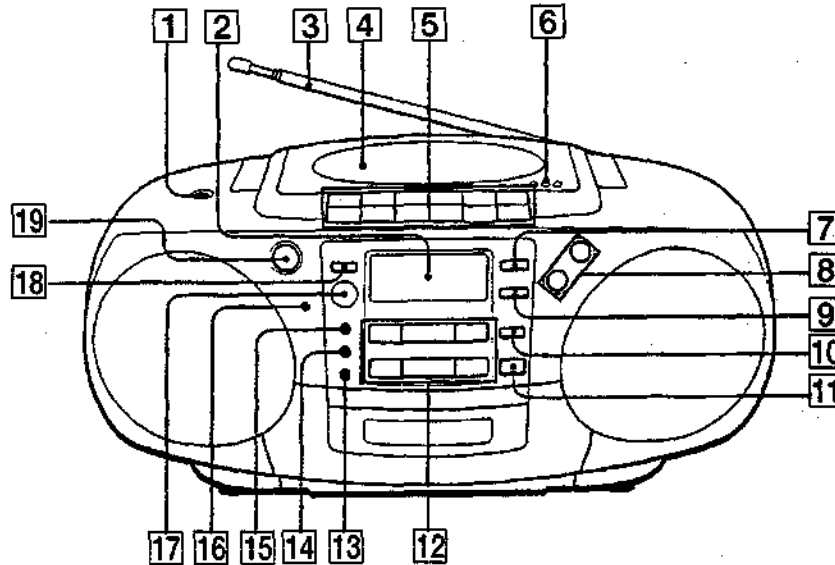
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Press CD open knob.
2. Open the lid for CD.
3. Push on SWITCH (S801) as following figure.
4. Confirm the laser diode emission while observing the objecting lens.
When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
Objective lens moves up and down once for the focus search.



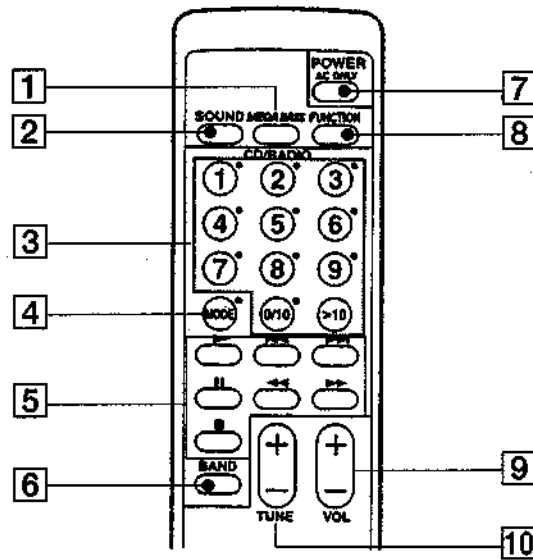
SECTION 2 GENERAL

LOCATION AND FUNCTION OF CONTROLS



- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 (Headphone) jack</p> <p>2 Display panel</p> <p>3 FM telescopic antenna</p> <p>4 CD lid</p> <p>5 TAPE operation buttons</p> <p style="padding-left: 20px;"> ■ PAUSE
 ■▲ STOP/EJECT
 ▲▲ FF
 ▼▼ REW
 ▲▲ PLAY
 ● REC </p> <p>6 CD OPEN/CLOSE button</p> <p>7 MEGA BASS button</p> <p>8 VOLUME +/- buttons</p> <p>9 SOUND button</p> <p>10 MODE button</p> <p>11 CD ■ (stop) button</p> | <p>12 CD•RADIO•CLOCK•TIMER operation buttons</p> <p>CD : ▶▶▶ (PLAY/PAUSE)
 ▶▶▶ (FF)
 ◀◀◀ (FR)</p> <p>RADIO : RADIO BAND (RADIO FM/AM)
 ▶▶▶ (TUNING +)
 ◀◀◀ (TUNING -)
 + (PRESET TUNING +)
 - (PRESET TUNING -)</p> <p>CLOCK•TIMER : ▶▶▶ (TIME SET +)
 ◀◀◀ (TIME SET -)</p> <p>13 DISPLAY/ENTER button</p> <p>14 STANDBY button</p> <p>15 CLOCK/TIMER button</p> <p>16 OPR/BATT lamp</p> <p>17 Remote sensor (CFD-370 only)</p> <p>18 SLEEP button</p> <p>19 POWER switch</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Remote (RMT-C370A) (CFD-370)

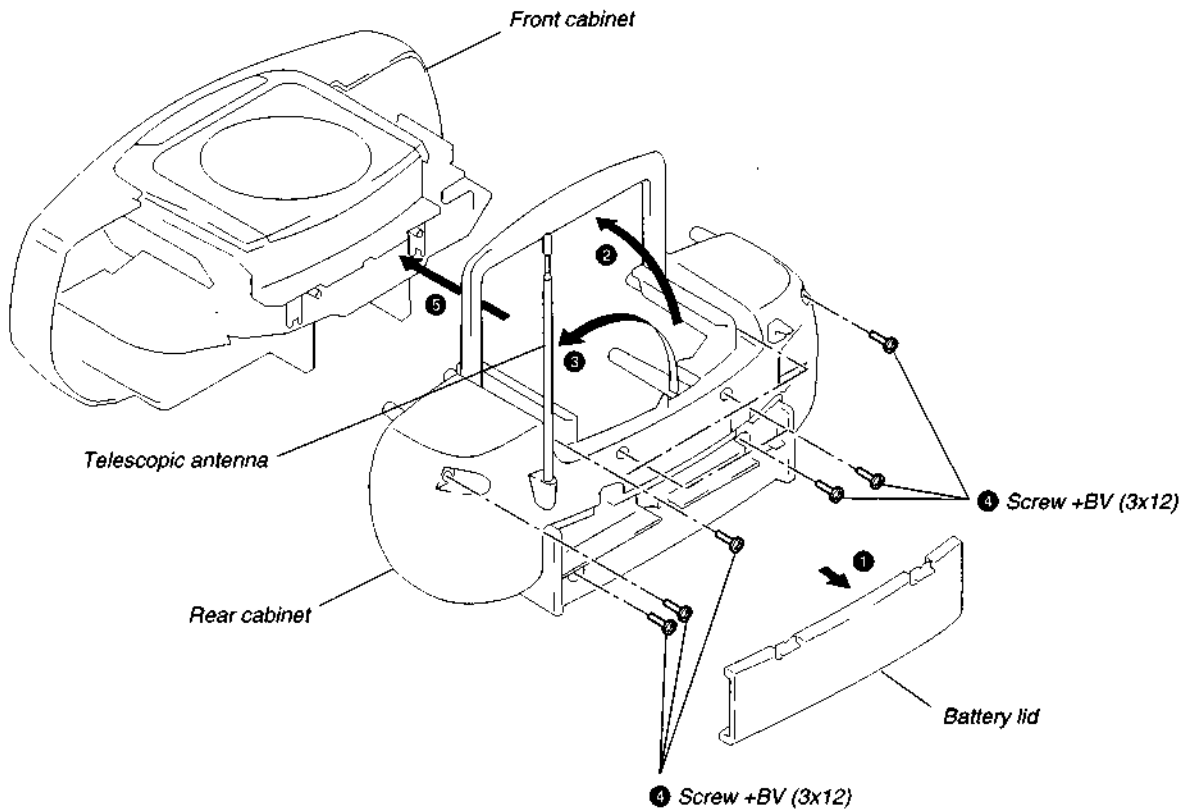


- 1** MEGA BASS button
- 2** SOUND button
- 3** Numeric buttons
- 4** MODE button
- 5** CD or TAPE operation buttons
- 6** BAND button
- 7** POWER (AC only) button
- 8** FUNCTION button
- 9** VOLUME +/- buttons
- 10** TUNE +/- buttons

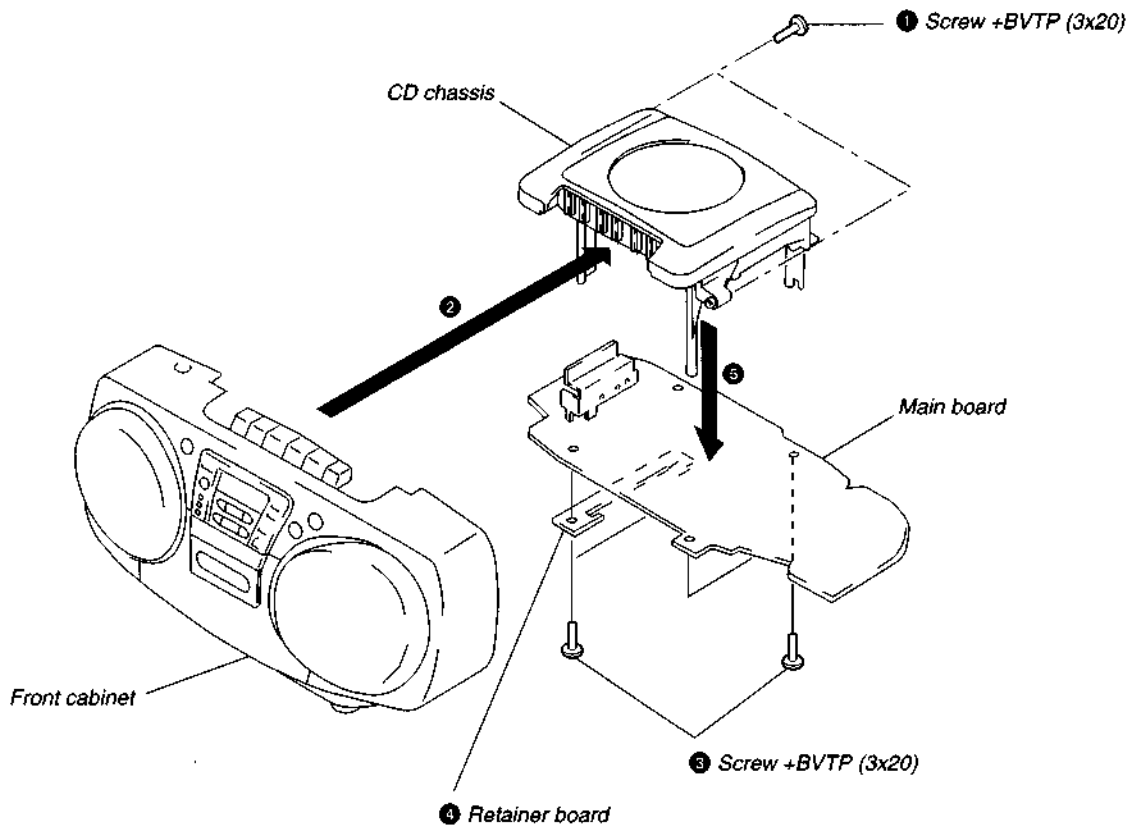
SECTION 3 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

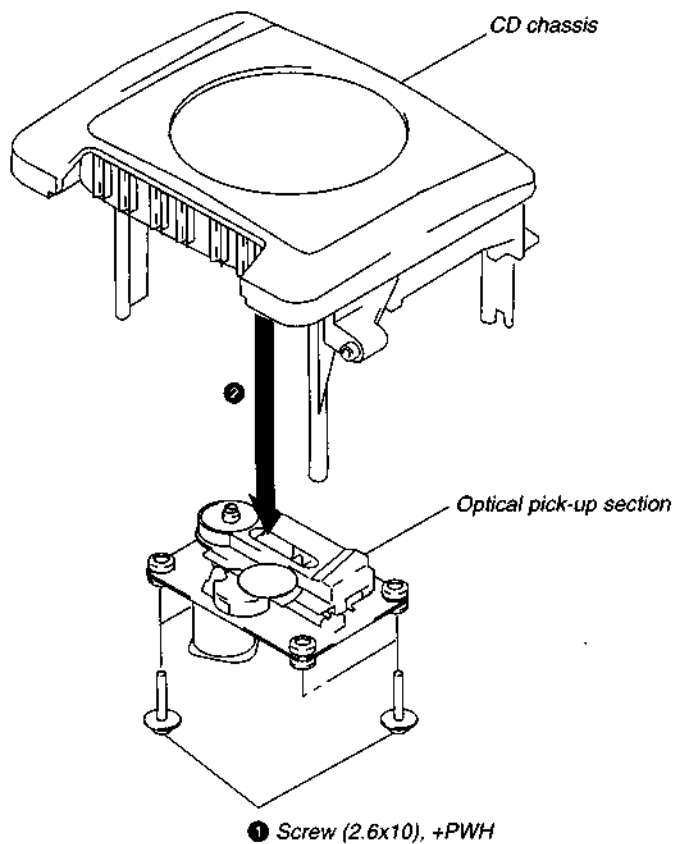
3-1. REAR CABINET REMOVAL



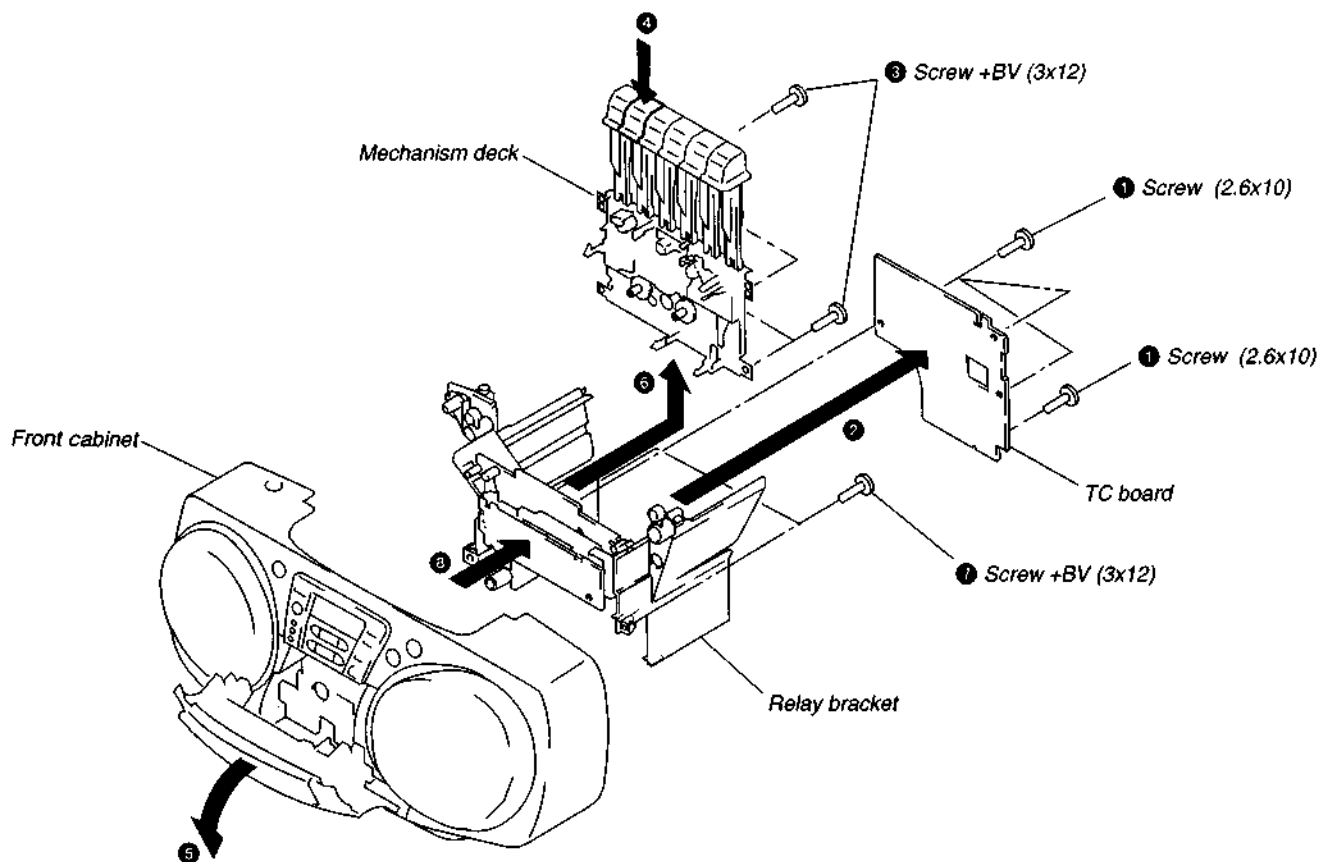
3-2. MAIN BOARD, RETAINER BOARD, CD CHASSIS REMOVAL



3-3. OPTICAL PICK-UP SECTION REMOVAL



3-4. TC BOARD, MECHANISM DECK, RELAY BRACKET REMOVAL



SECTION 4 ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	60g*cm (0.42 - 0.83 oz*inch)
Forward Back Tension	CQ-102C	1 - 5g*cm (0.014 - 0.070 oz*inch)
Fast Forward	CQ-201B	more than 55g*cm (more than 0.77 oz*inch)
Rewind	CQ-201B	more than 55g*cm (more than 0.77 oz*inch)

Tape Tension Measurement

Tension Meter	Meter Reading
CQ-403A	more than 80g (more than 2.83 oz)

4-2. ELECTRICAL ADJUSTMENTS

TAPE RECORDER SECTION

Standard Output Level

Output terminal	HP OUT
load impedance	32Ω
output signal level	0.25V (-10dB)

Test Tape

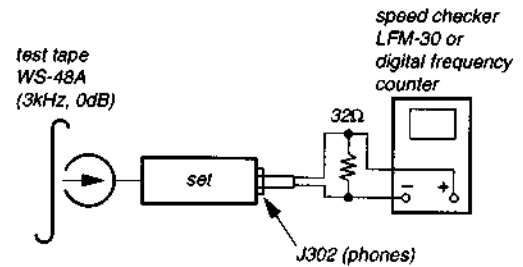
Type	Signal	Used for
WS-48A	3kHz, 0dB	Tape Speed Adjustment
P-4-A063	6.3kHz, -10dB	Head Azimuth Adjustment

0dB=0.775V

Tape Speed Adjustment

Procedure :

Mode : Playback

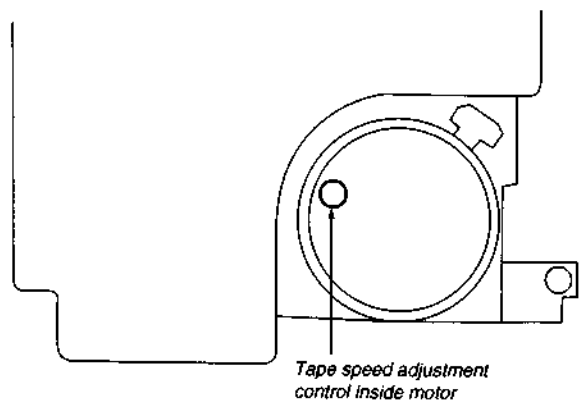


Adjustment Value :

Speed checker	Digital frequency counter
-2.5 to +2.5%	2,925-3,075Hz

Frequency difference between the beginning and the end of the tape should be within 3% (90Hz).

Adjustment Location :

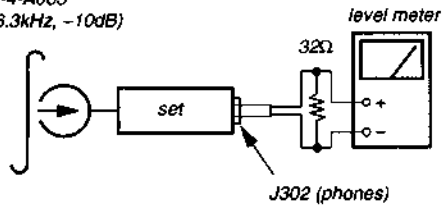


Record/Playback Head Azimuth Adjustment

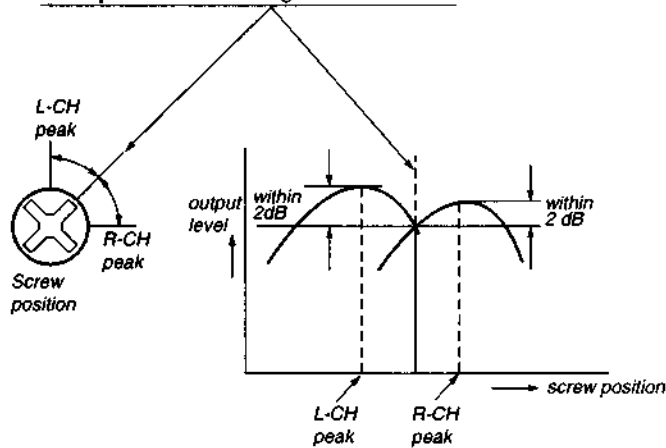
Procedure :

1. Mode : playback

test tape
P-4-A063
(6.3kHz, -10dB)

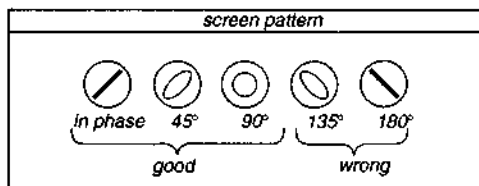
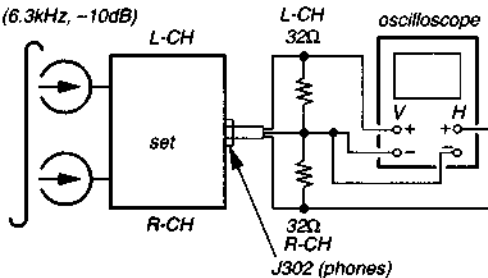


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2dB.

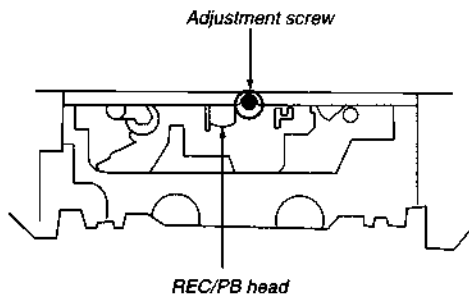


3. Phase Check
Mode : playback

test tape
P-4-A063
(6.3kHz, -10dB)



Adjustment Location : - record / playback head -

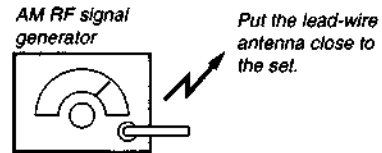


TUNER SECTION

- Switch Location
- VOLUME : MAX
- MEGA BASS : OFF
- SOUND : FLAT

AM Section

BAND : AM

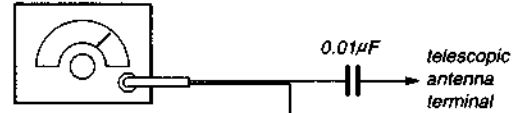


30% amplitude modulation by 400Hz signal.
Output level : as low as possible

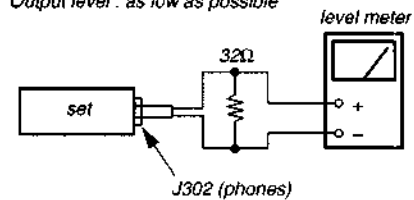
FM Section

BAND : FM

FM RF signal generator



22.5kHz frequency deviation by 400Hz signal.
Output level : as low as possible



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ALIGNMENT	
Adjust for a maximum reading on level meter.	
CFT1	455kHz

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3	621kHz
CT2	1,404kHz

AM FREQUENCY COVERAGE ADJUSTMENT		
Adjustment part	Frequency display	Reading on digital voltmeter
L4	531kHz	0.85±0.2V
Confirmation	1,611kHz	4.7±0.2V

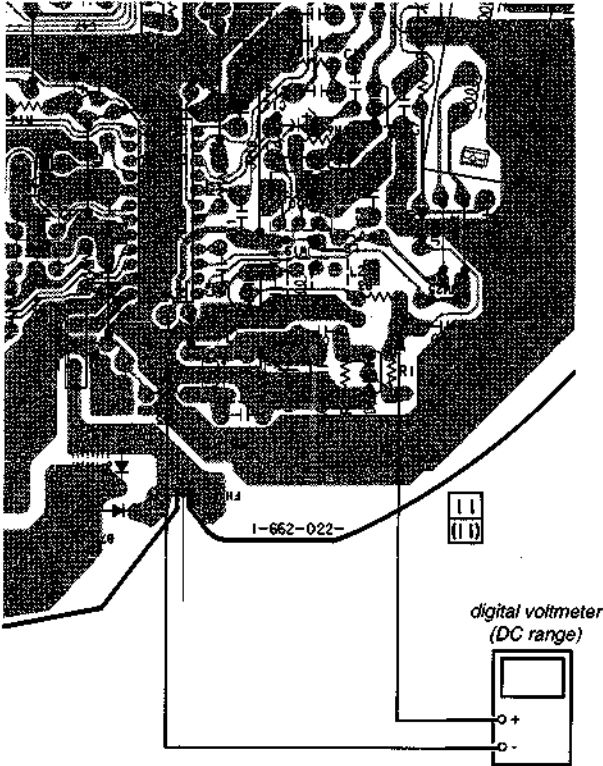
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	87.5MHz
CT1	108MHz

FM FREQUENCY COVERAGE ADJUSTMENT		
Adjustment part	Frequency display	Reading on digital voltmeter
L2	87.5MHz	1.6±0.2V
Confirmation	108MHz	4.0±0.1V

Adjustment Location : MAIN board (see page13)

**Frequency Coverage Adjustment
Procedure :**

[MAIN BOARD] (Component side)



CD SECTION

Note on Adjustment

1. Perform adjustment in test mode.
After adjustment, be sure to release test mode.
2. Perform adjustments in the order given.
3. Use the disc (YEDS-18, Part No. 3-702-101-01) only when so indicated.

Before adjustment

Put the set into test mode and perform the following checks.
Repair if there are any problems.

● Sled Motor Check

1. Press ►► button, then press OFF button.
2. Press ►►, ◄◄ buttons and confirm that the Optical pick-up moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises. (Cancellation of BTL mute)

►► : Optical pick-up moves to the outer circumference

◄◄ : Optical pick-up moves to the inner circumference

● Focus Search Check

1. Press ►► button. (Focus search operation is performed continuously.)
2. Look at the Optical pick-up objective lens and confirm that it moves up and down smoothly, with no catching or abnormal noises.
3. Press ■ button.

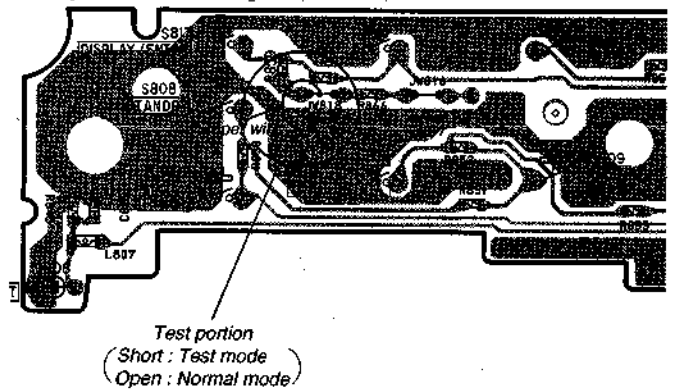
Confirm that focus search operation stops. If it does not, press ■ button again longer.

Note : When the malfunction is occurred by mis-passing other buttons, turn off the power and check again from making the test mode.

How to put the Set into Test Mode

1. Short-circuit between JW818 and JW819 on the switch board.
2. Turn the POWER ON.

[SWITCH BOARD]



How to release Test Mode

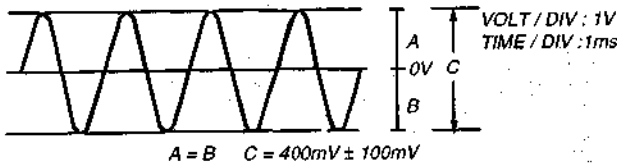
1. Turn the POWER OFF.
2. Open the short-circuit to release test mode.

E-F Balance Adjustment

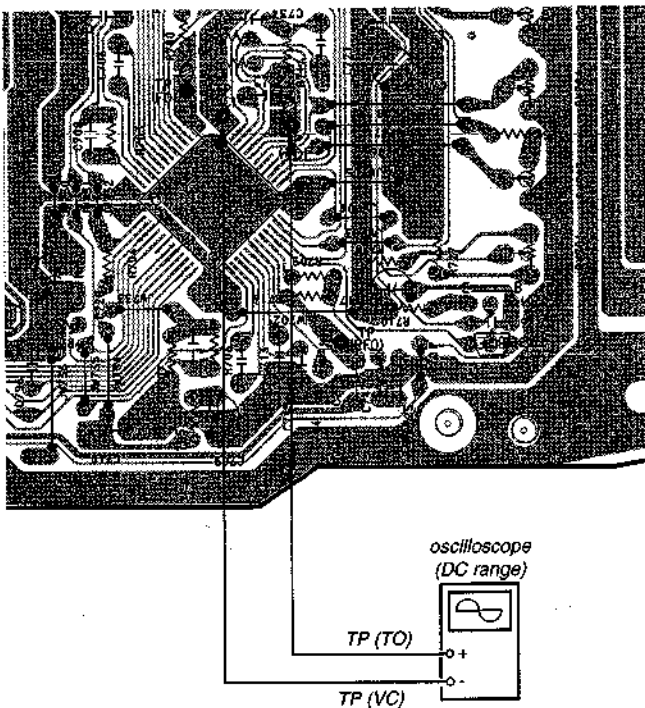
This adjustment is to be done when the optical pick-up block is replaced.

Adjustment Procedure :

1. Connect the oscilloscope between TP (VC) and TP (TO) on MAIN board.
2. Put the set into test mode.
3. optical pick-up setting to the center by ►► or ◄◄ button pushing.
4. Insert disc (YEDS-18) and press ►|| button.
5. Adjust RV703 so that the oscilloscope traverses waveform is symmetrical, as shown in the figure below.
6. Release test mode after adjustment is completed.



[MAIN BOARD]



Adjustment Location : MAIN board (see page 13)

Focus Bias Adjustment

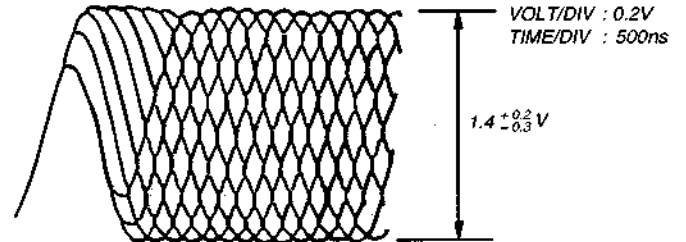
This adjustment is to be done when the optical pick-up block is replaced.

Adjustment procedure :

1. Connect oscilloscope to test point TP (VC) and TP (RFO) on MAIN board.
2. Put the set into test mode.
3. Optical pick-up setting to the center by ►► or ◄◄ button pushing.
4. Insert disc (YEDS-18) and press ►|| button.
5. Press the ►|| button. (Tracking servo ON)

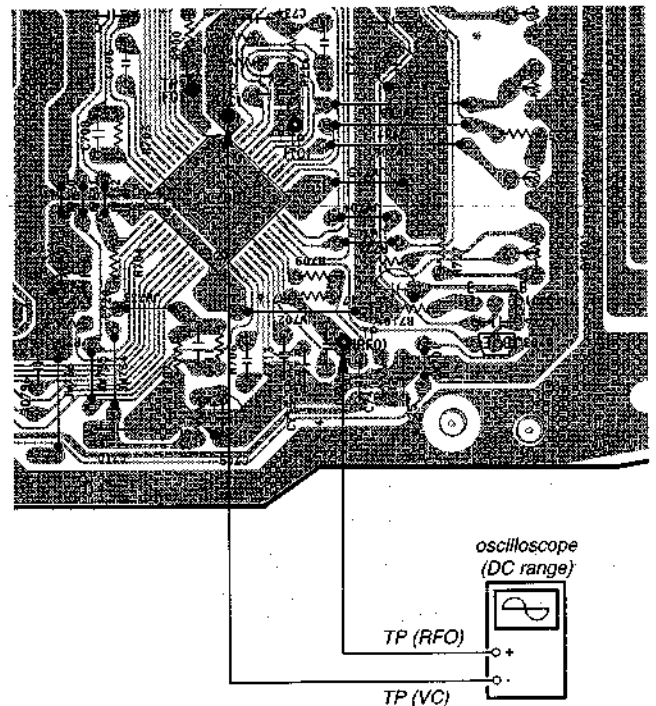
6. Adjust RV701 so that the oscilloscope waveform is as shown in the figure below (eye pattern).
- A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.
7. Release test mode after adjustment is completed.

● RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

[MAIN BOARD]



Adjustment Location : MAIN board (see page 13)

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

Symptoms	Gain	Focus	Tracking
<ul style="list-style-type: none"> The time until music starts becomes longer for STOP → ► button or automatic selection. (◀◀, ▶▶ buttons pressed.) (Normally takes about 2 seconds.) 		low	low or high
<ul style="list-style-type: none"> Music does not start and disc continues to rotate for STOP → ► button or automatic selection. (◀◀, ▶▶ buttons pressed.) 		—	low
<ul style="list-style-type: none"> Sound is interrupted during PLAY. Or time counter display stops progressing. 		—	low
<ul style="list-style-type: none"> More noise during 2-axis device operation. 		high	high

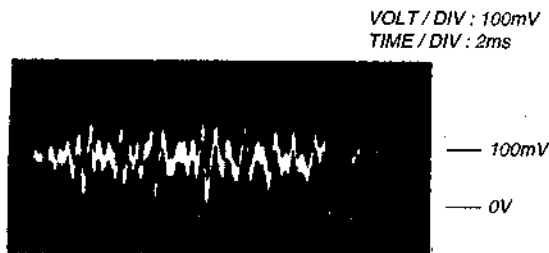
The following is a simple adjustment method.

– Primary Adjustment –

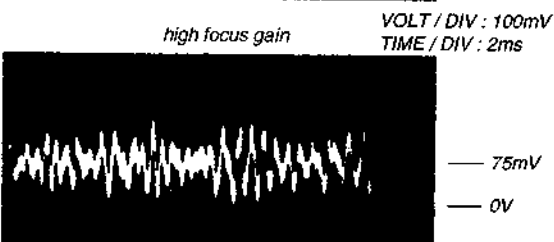
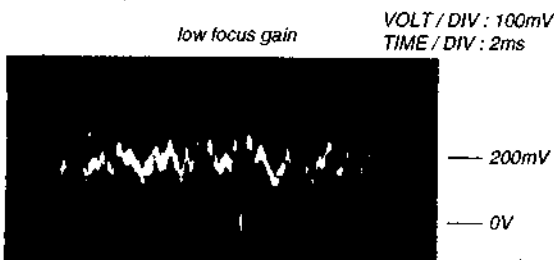
Note : Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the primary adjustment are only a little different, return the controls to the original position.

Procedure :

1. Keep the set horizontal.
If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Insert disc (YEDS-18) and press ►|| button.
3. Connect oscilloscope to TP(FO) and TP(VC) on MAIN board.
4. Adjustment RV702 on MAIN board so that the waveform is as shown in the figure below. (Focus gain adjustment)



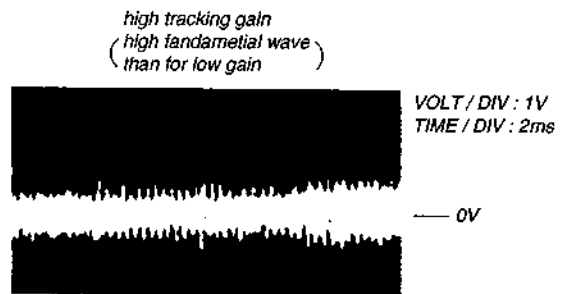
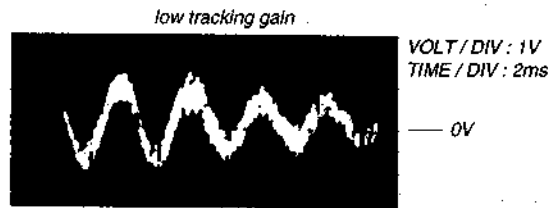
● Incorrect Examples (DC level changes more than on adjusted waveform)



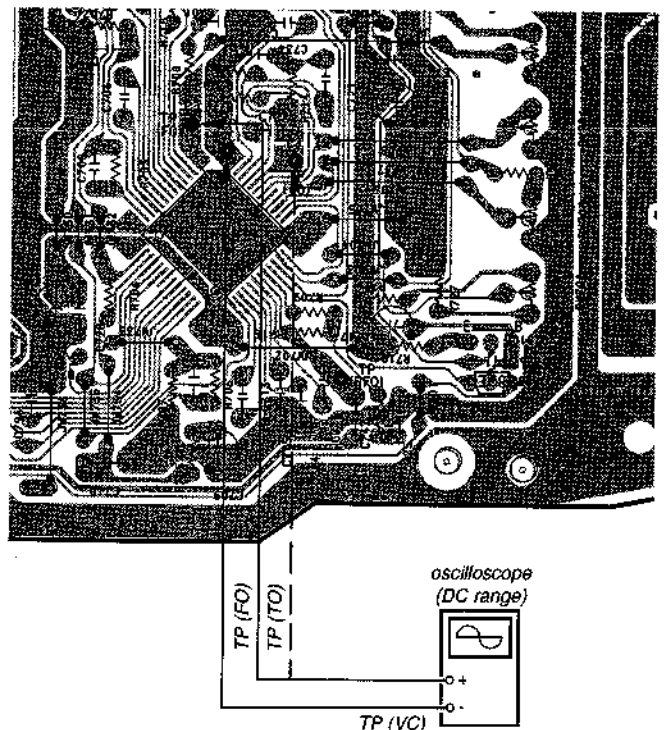
5. Connect oscilloscope to TP(TO) and TP(VC) on MAIN board.
6. Adjust RV704 on digital board so that the waveform is as shown in the figure below. (Tracking gain adjustment)
7. Release test mode after adjustment is completed.



● Incorrect Examples (fundamental wave appears)

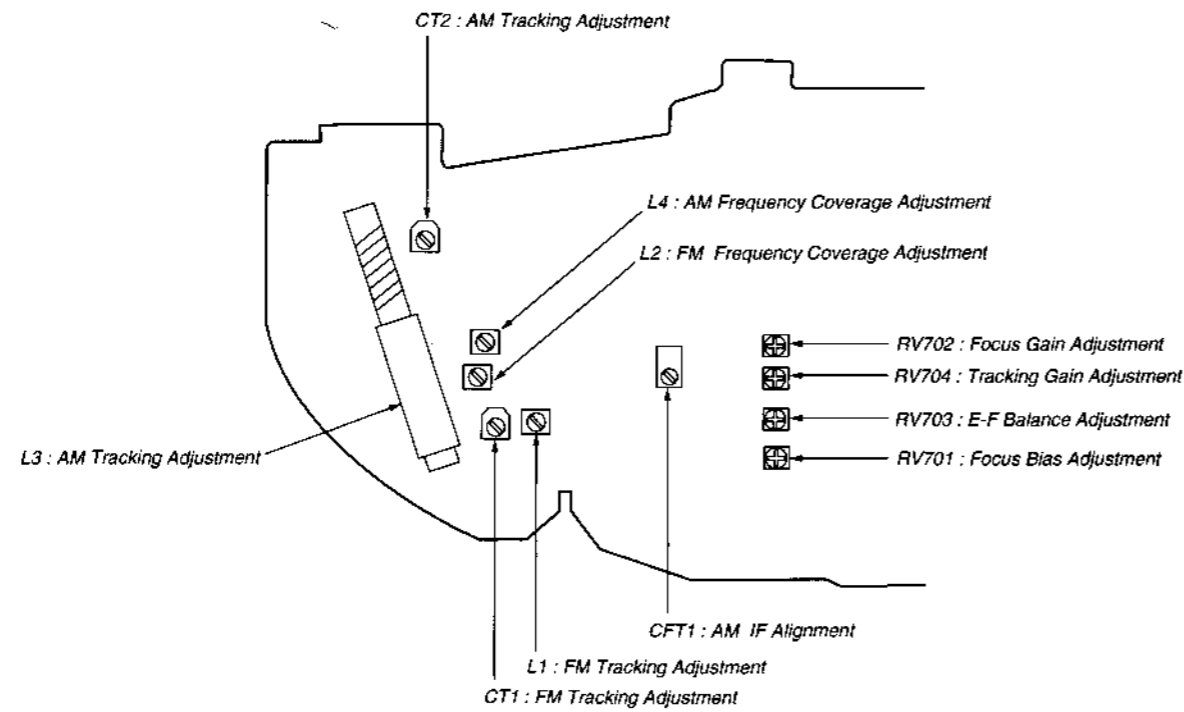


[MAIN BOARD]



SECTION 5 EXPLANATION OF IC TERMINALS

Adjustment Location : MAIN board (Component side)



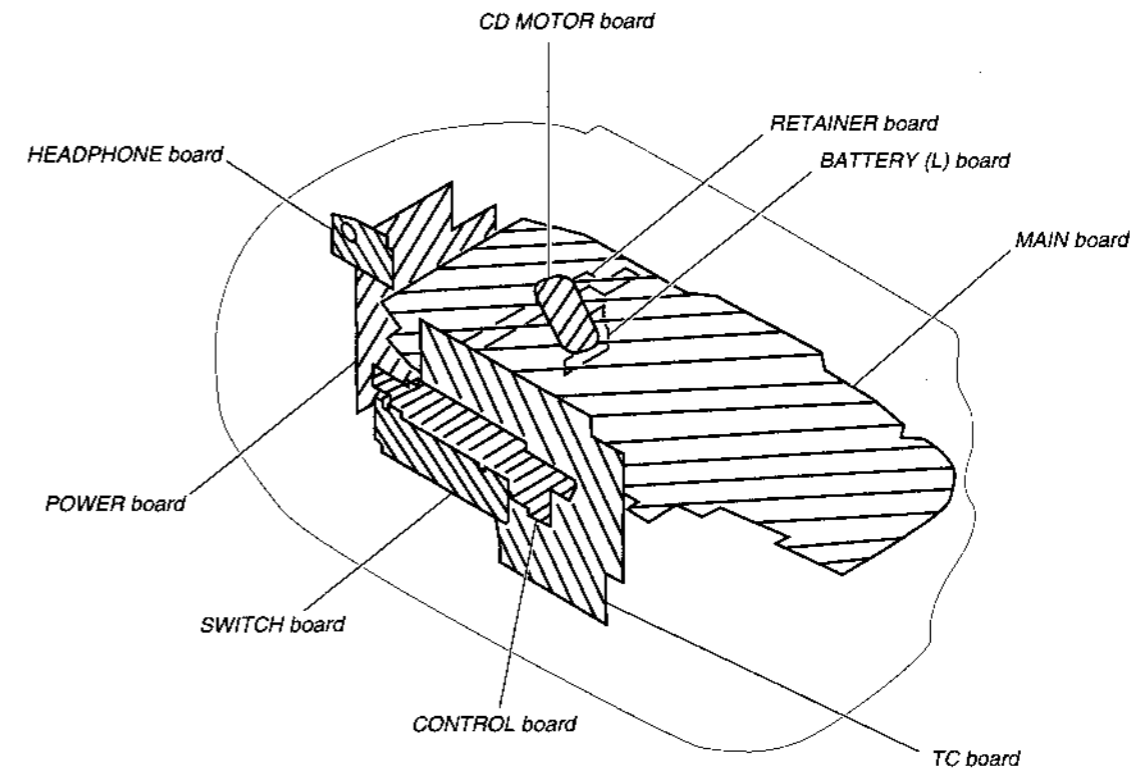
IC801 MSM65353A-827GS-BK4 (SYSTEM CONTROL)

Pin No.	Pin name	I/O	Description
1-4	COM 1-4	O	LCD common output.
5-30	SEG 0-25	O	LCD segment output.
31-36	NC	-	Not used (Open).
37	A GND	-	Analog ground.
38-41	KEY1-4	I	Key input.
42	9K/10k-12/24H	I	9k/10k,12H/24H select input.
43	NC	-	Not used ("L" level).
44	U/L/S	I	Radio destination band select input.
45	NC	-	Not used ("L" level).
46	VRH	-	AD reference voltage input.
47	AVDD	-	Analog power supply (+5V).
48	INI	O	Initial setting output (for destination).
49-51	NC	-	Not used (Open).
52	REG-CON	O	Regulator ON/OFF control output.
53	CD	O	Function CD output.
54	DBB	O	DBFB ON/OFF output.
55	TAPE	O	Function tape output.
56	REC	O	Function rec output.
57	V-I/O	I/O	Volume data input/output.
58	V-CLK	O	Volume clock output.
59	V-CE	O	Chip enable output to IC302.
60	NC	-	Not used (Open).
61	CD-OP/CL	I	CD open/close input.
62	C-CLK	O	Clock output for CD DSP command.
63	C-XLT	O	CD system latch output.
64	NC	-	Not used (Open).
65	C-SQSO	I	CD SUBQ input.
66	C-SQCK	O	Clock output for CD SUBQ.
67	RMC	I	Remote control signal input (CFD-370).
68	C-SENS	I	CD SENS input.
69	NC	-	Not used (Open).
70	B-MUTE	O	Mute signal output.
71	C-XRST	O	CD system reset output.
72	VDD	-	Digital power supply (+5V).
73	NC	-	Not used (Open).
74	C-DATA	O	CD DSP command data output.
75	NC	-	Not used (Open).

SECTION 6 DIAGRAMS

Pin No.	Pin name	I/O	Description
76	C-SCOR	I	CD-SCOR input.
77-79	NC	-	Not used (Open).
80	T-PLAY	I	TAPE play input.
81	OSC-OUT	O	Main clock output (4.19MHz).
82	OSC-IN	I	Main clock input (4.19MHz).
83	D-GND	-	Digital ground.
84	XT-IN	I	SUB clock input (32.768kHz).
85	XT-OUT	O	SUB clock output (32.768kHz).
86	NC	-	Not used (Open).
87	R-CE	O	Tuner PLL IC CE output.
88	A-MUTE	O	Audio mute output.
89	R-ST	I	R-STEREO input.
90	REGCHK	I	Regulator check input.
91	R-DATA	O	Tuner PLL IC data output.
92	R-CONT	O	Tuner PLL IC count output.
93	R-CLK	O	Tuner PLL IC clock output.
94	RST	I	Reset terminal.
95	—	-	Not used (Open).
96	NC	-	Not used (Open).
97	VDDL	-	Bias power supply for LCD drive.
98-100	VDD 1-3	-	Bias power supply for LCD drive.

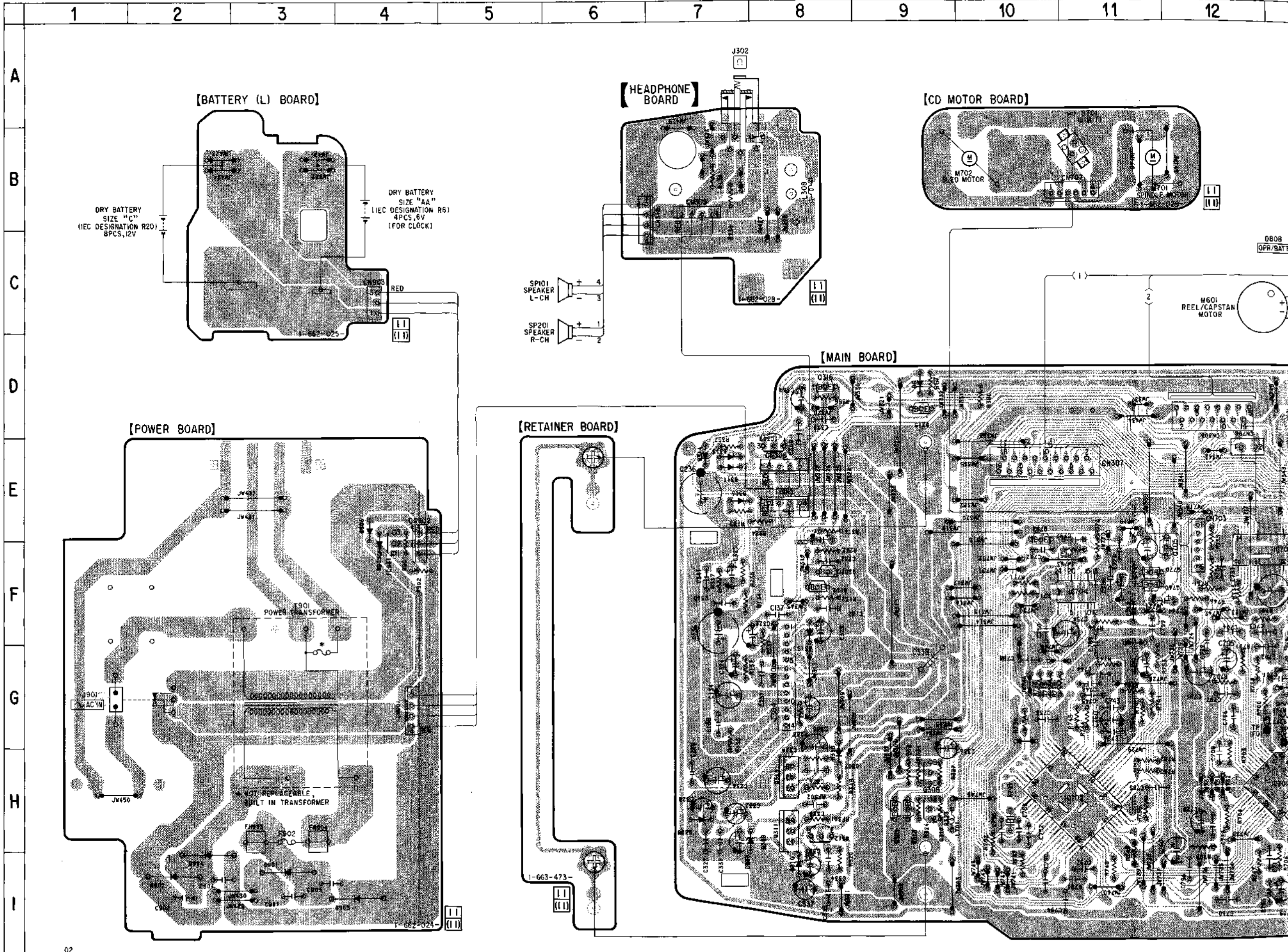
6-1. CIRCUIT BOARDS LOCATION



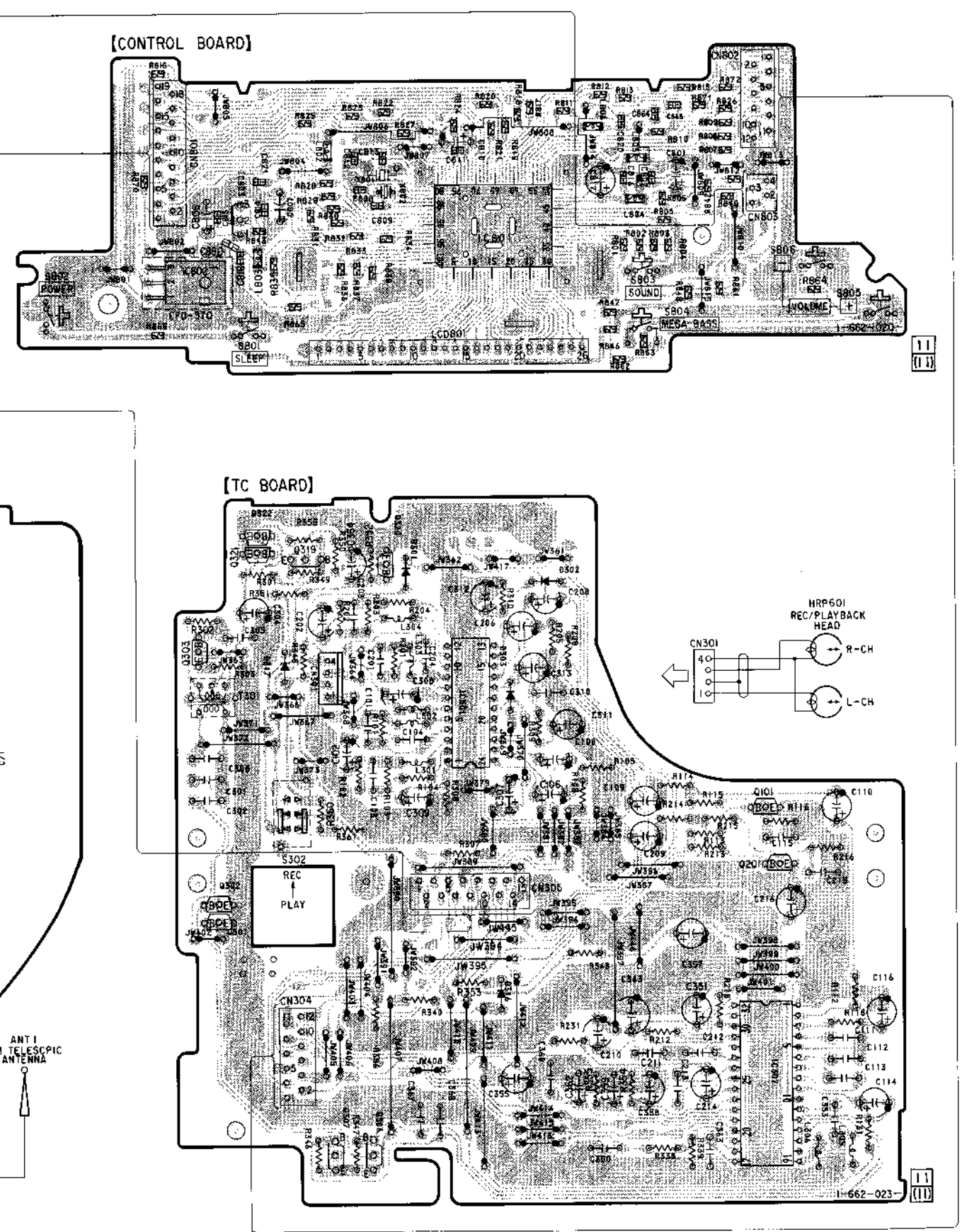
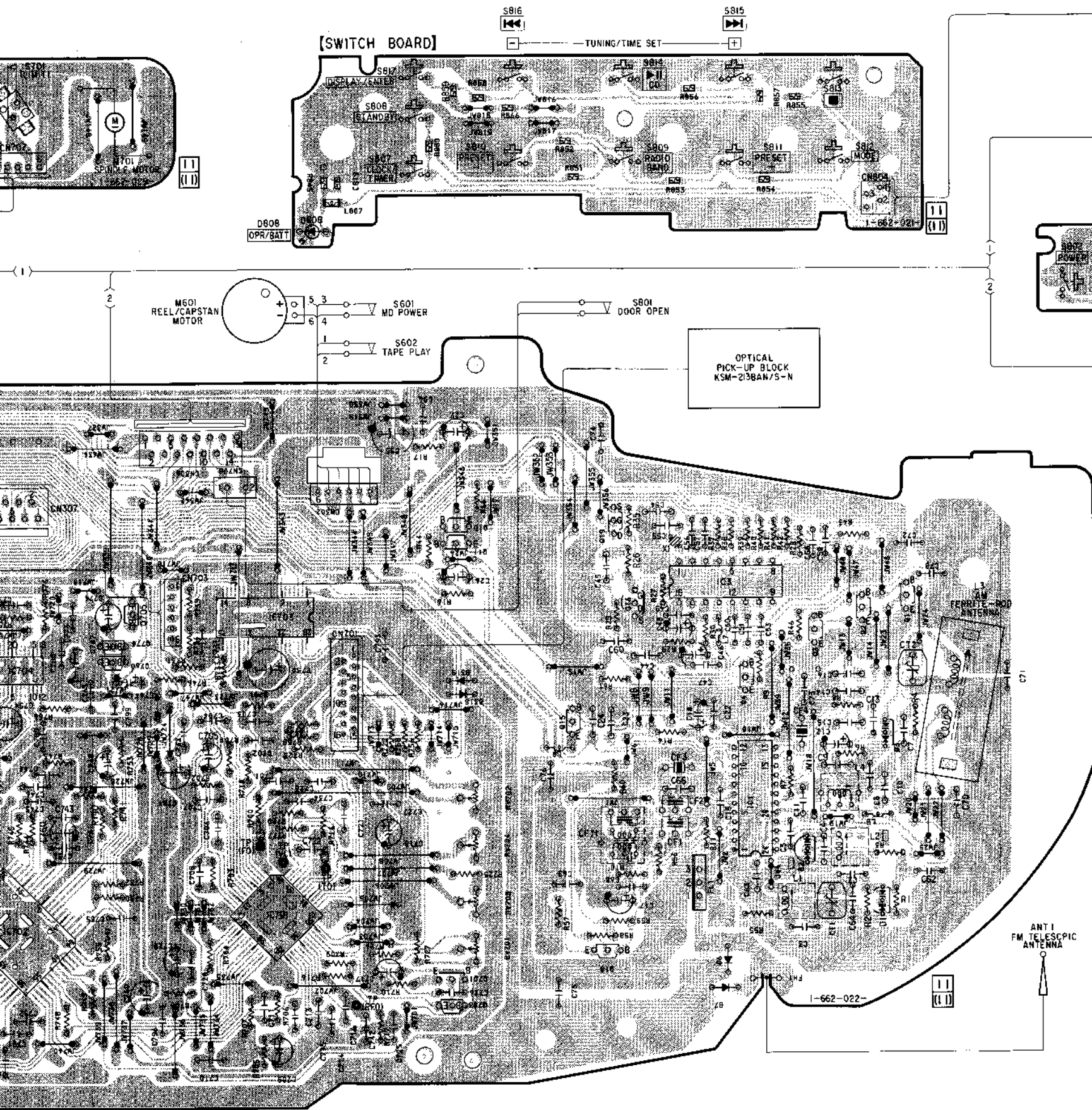
6-2. PRINTED WIRING BOARDS

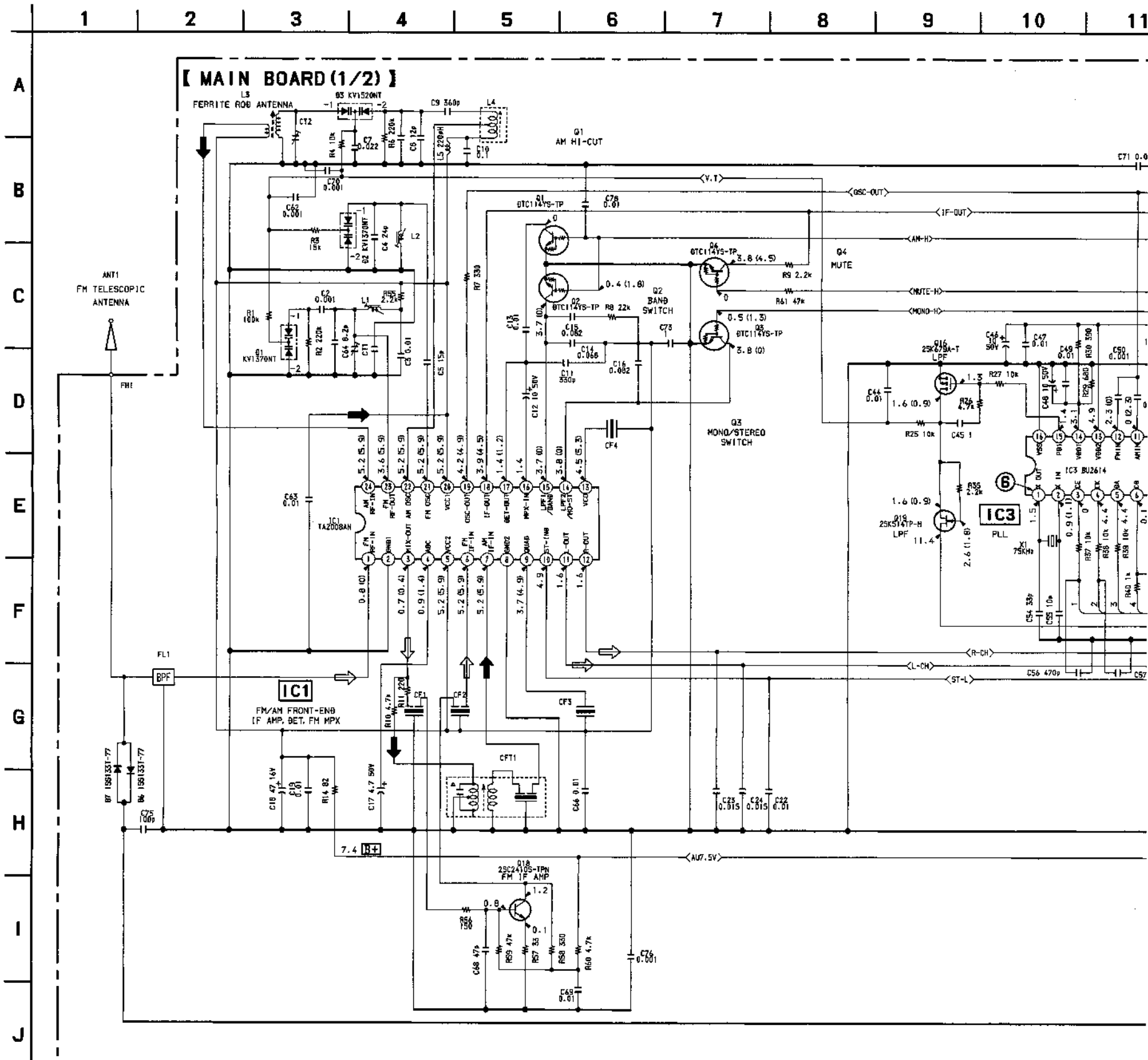
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D1	H-17	Q1	F-17
D2	G-17	Q2	F-17
D3	G-17	Q3	F-17
D6	H-16	Q4	F-16
D7	H-16	Q10	E-14
D8	D-9	Q11	E-14
D306	E-7	Q15	F-15
D307	H-8	Q16	F-15
D308	H-7	Q18	H-15
D309	H-8	Q19	E-15
D310	I-8	Q101	F-24
D311	E-7	Q102	F-8
D313	E-7	Q201	G-24
D314	E-7	Q202	F-8
D315	F-8	Q301	G-20
D318	F-14	Q302	G-20
D319	F-14	Q303	E-20
D901	I-3	Q306	I-21
D902	I-2	Q307	I-21
D903	I-4	Q308	H-9
D904	I-2	Q309	H-9
D905	F-4	Q310	H-8
D906	E-4	Q311	H-8
D301	E-21	Q312	H-8
D302	E-22	Q315	D-9
D303	F-22	Q316	D-8
D316	H-22	Q317	H-9
D317	E-20	Q318	H-9
D808	C-13	Q319	E-20
		Q320	E-21
IC1	G-16	Q321	E-20
IC3	E-16	Q322	E-20
IC301	F-22	Q701	H-14
IC302	H-24	Q702	E-10
IC304	H-13	Q703	I14
IC309	E-8	Q706	F-12
IC701	H-13	Q760	F-11
IC702	H-11	Q770	F-11
IC703	F-13		
IC704	F-11		
IC901	F-4		
IC801	C-22		
IC802	B-20		
IC803	C-20		



Note:
 ○ : parts extracted from the component side.
 • : Pattern on the side which is seen.





02

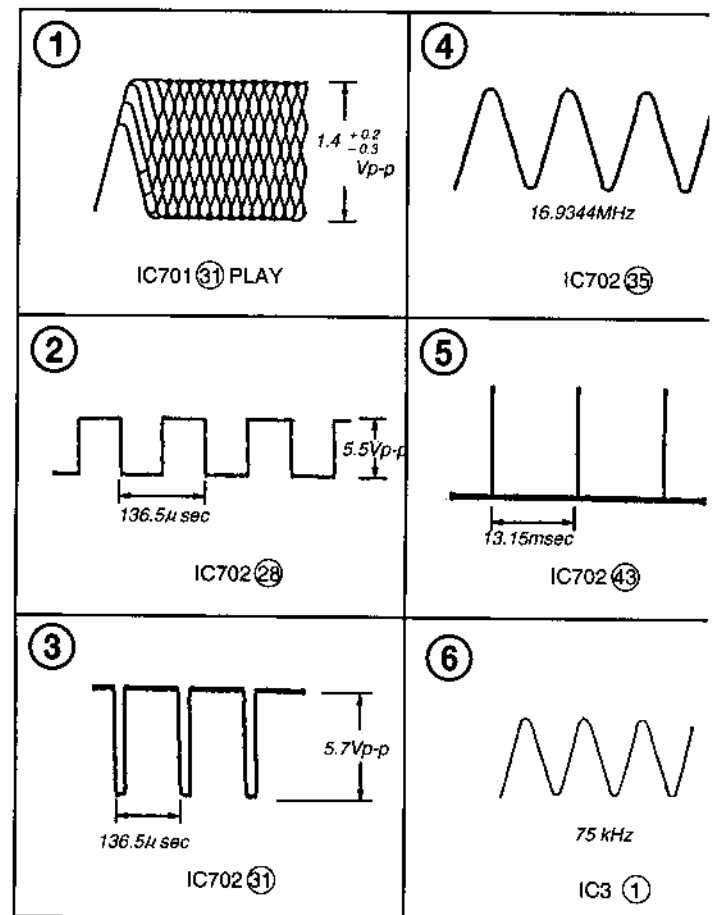
Note :

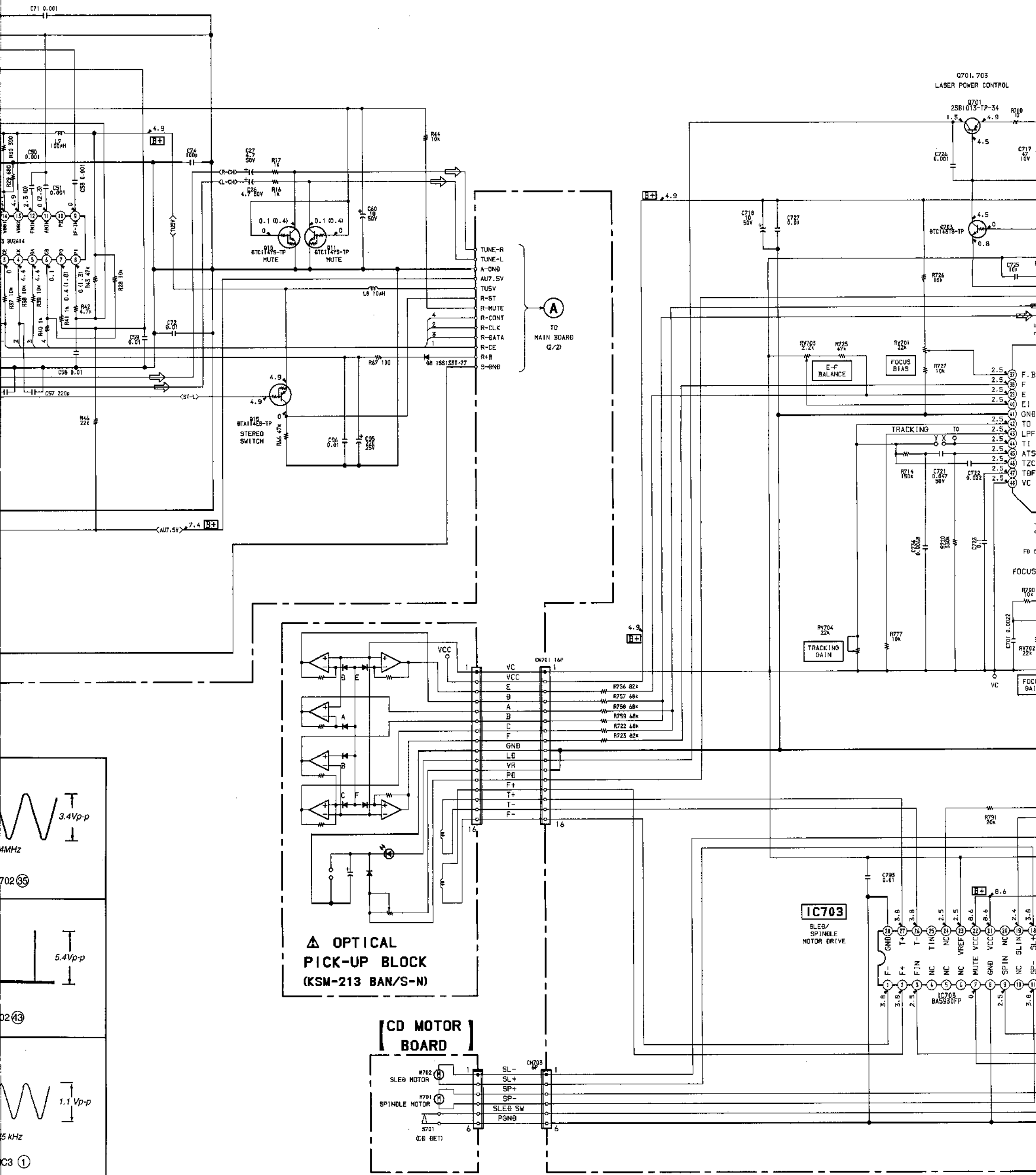
- All capacitors are in μF unless otherwise noted. pF: μpF 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- Δ : internal component.

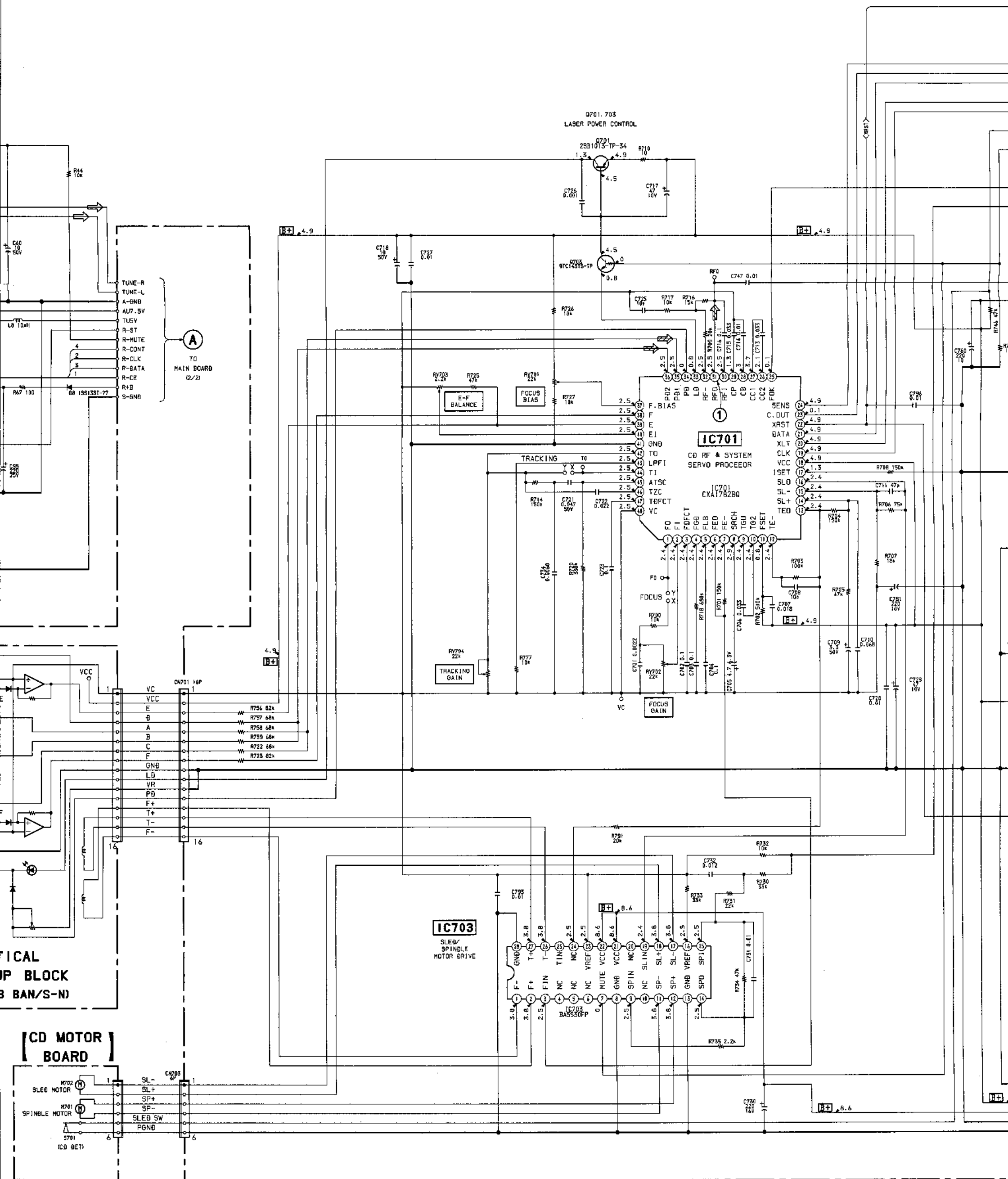
Note : The components identified by mark Δ , or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- **B+ :** B+ Line
- \square : adjustment for repair.
- Power voltage is dc 12 V and fed with regulated dc power supply from external power voltage jack(J901).
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- () : FM (Radio section), CD STOP (CD section)
- () : AM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- \square : FM
- \diamond : CD
- \blacktriangleright : AM

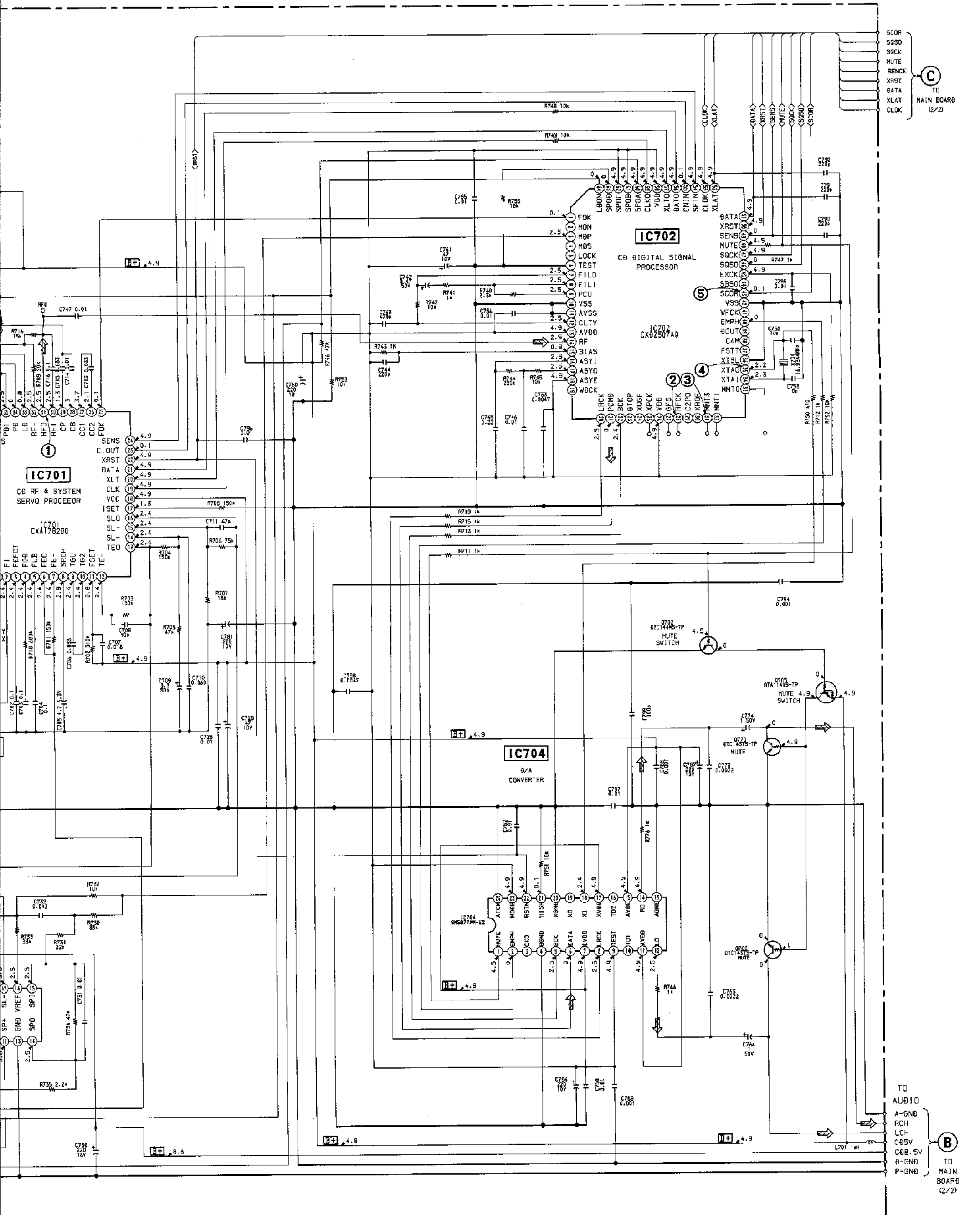
• WAVEFORMS







24 25 26 27 28 29 30 31 32 33 34 35 36



6-4. SCHEMATIC DIAGRAM - MAIN SECTION (1/2) -

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note :

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- : fusible resistor.

Note : The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- [B+]** : B+ Line

Power voltage is dc 12V and fed with regulated dc power supply from external power voltage jack(J901).

- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM (Radio Section), Playback (Tape section)
- () : REC
- Waveforms are taken with a VOM (input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

• WAVEFORMS

①

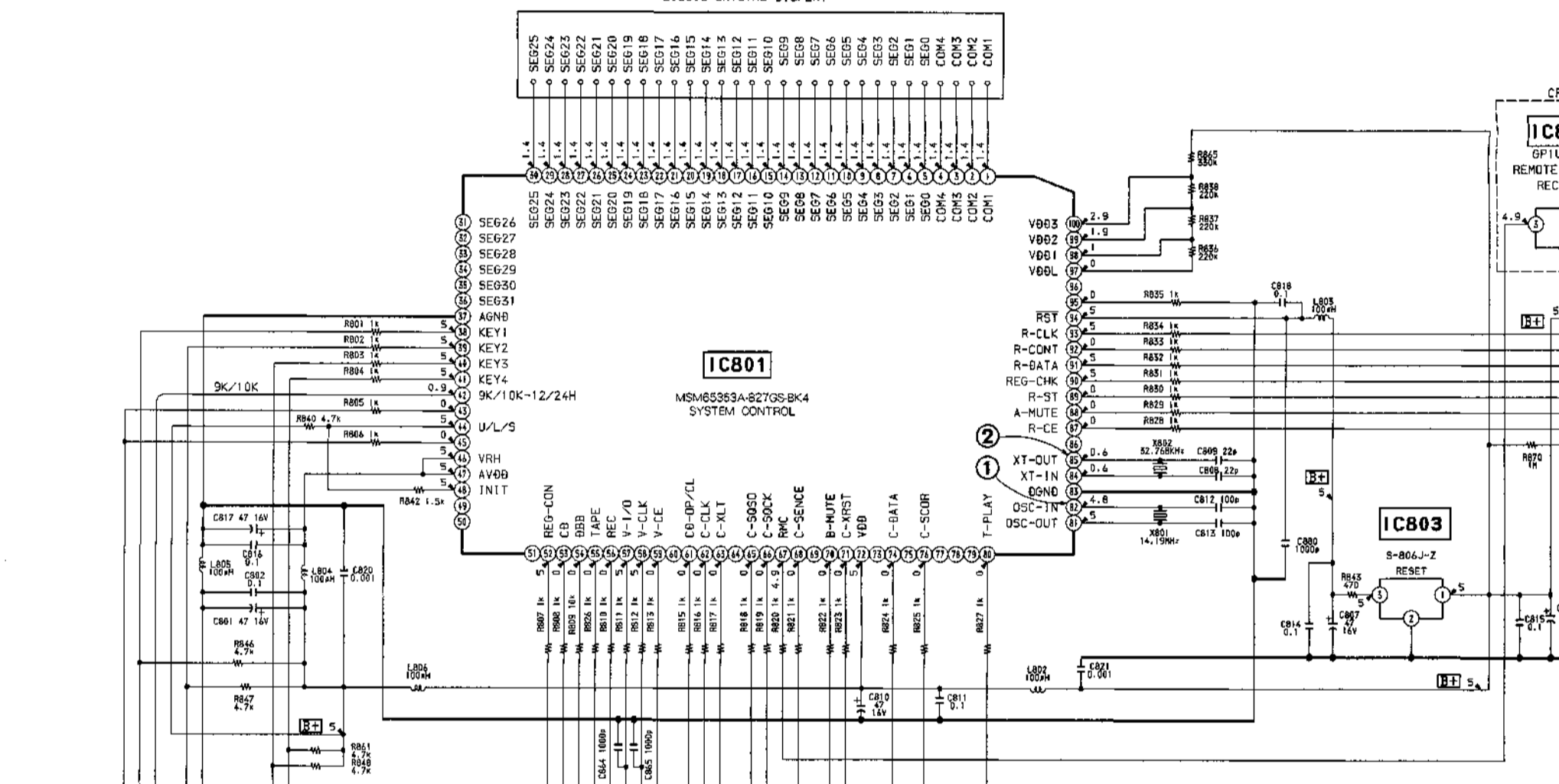
4.19 MHz
IC801 ⑧

②

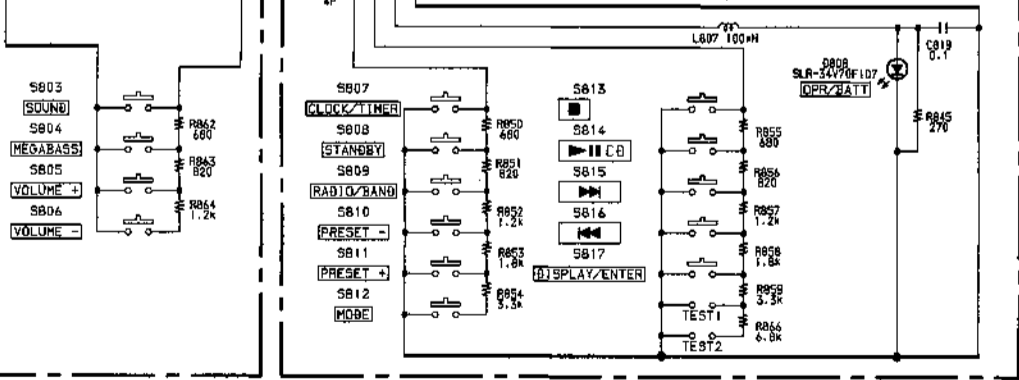
32 kHz
IC801 ⑨

Legend:
 : FM
 : PB
 : CD
 : REC

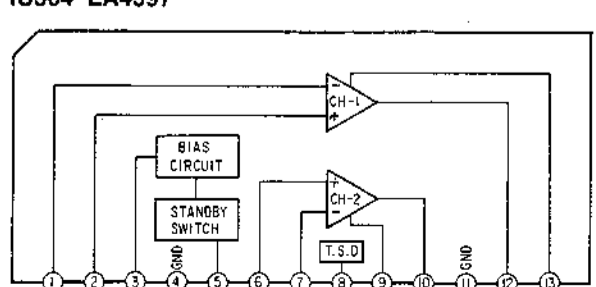
[CONTROL BOARD]



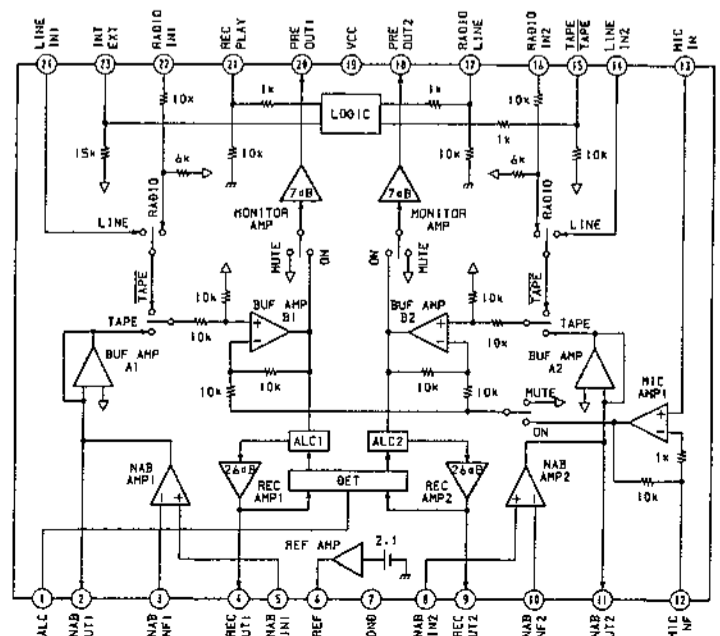
[SWITCH BOARD]

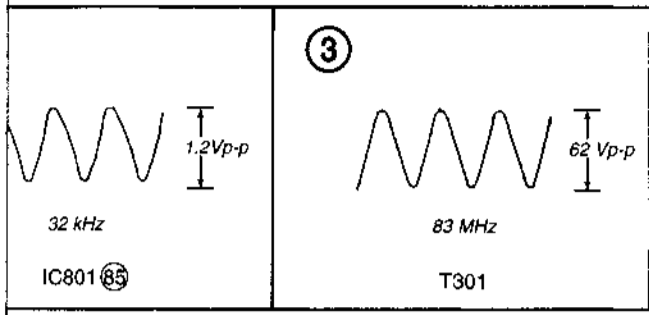


• IC BLOCK DIAGRAMS - MAIN SECTION (2/2) -

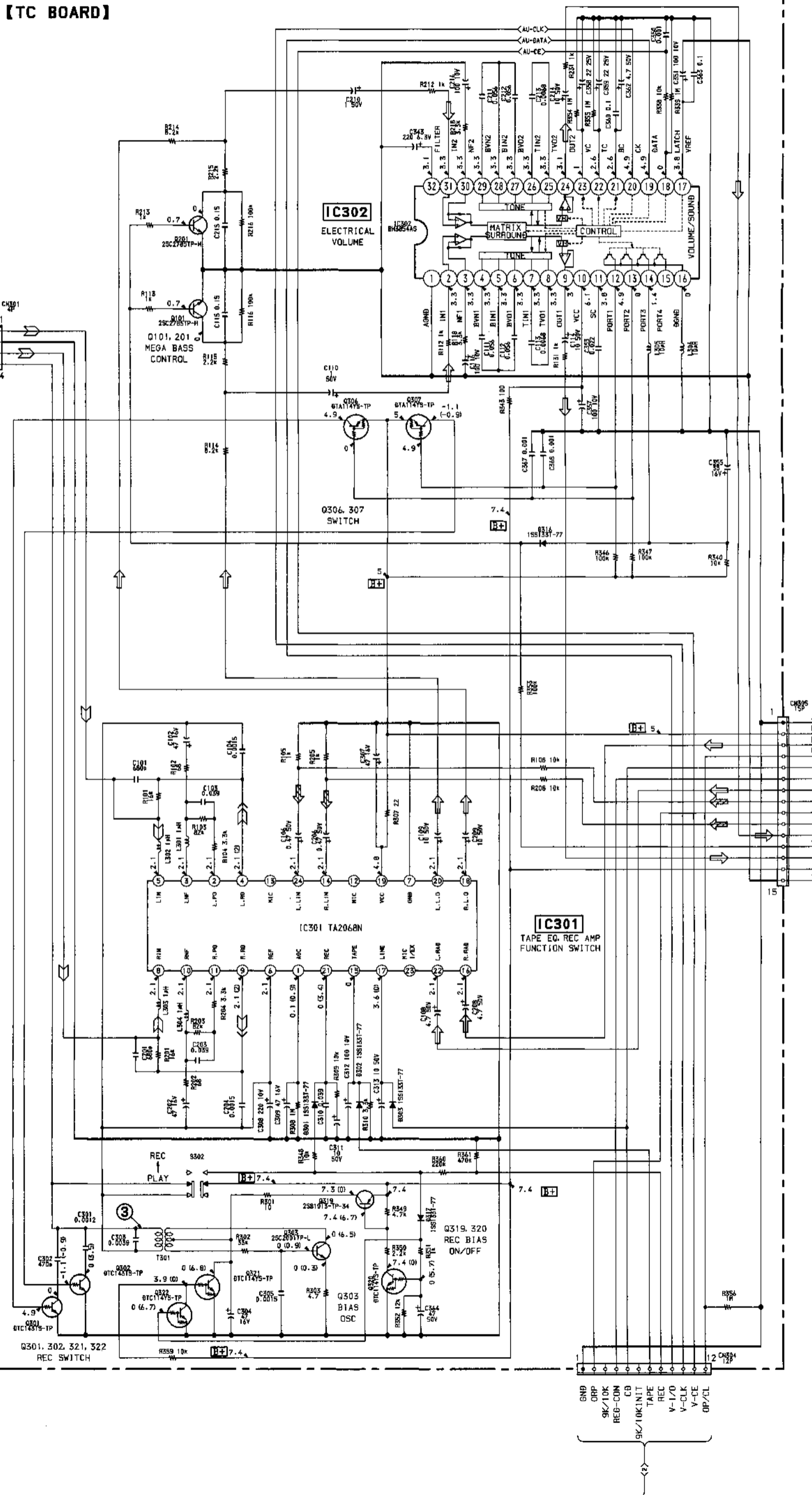
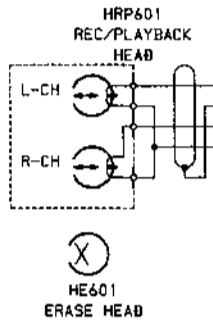
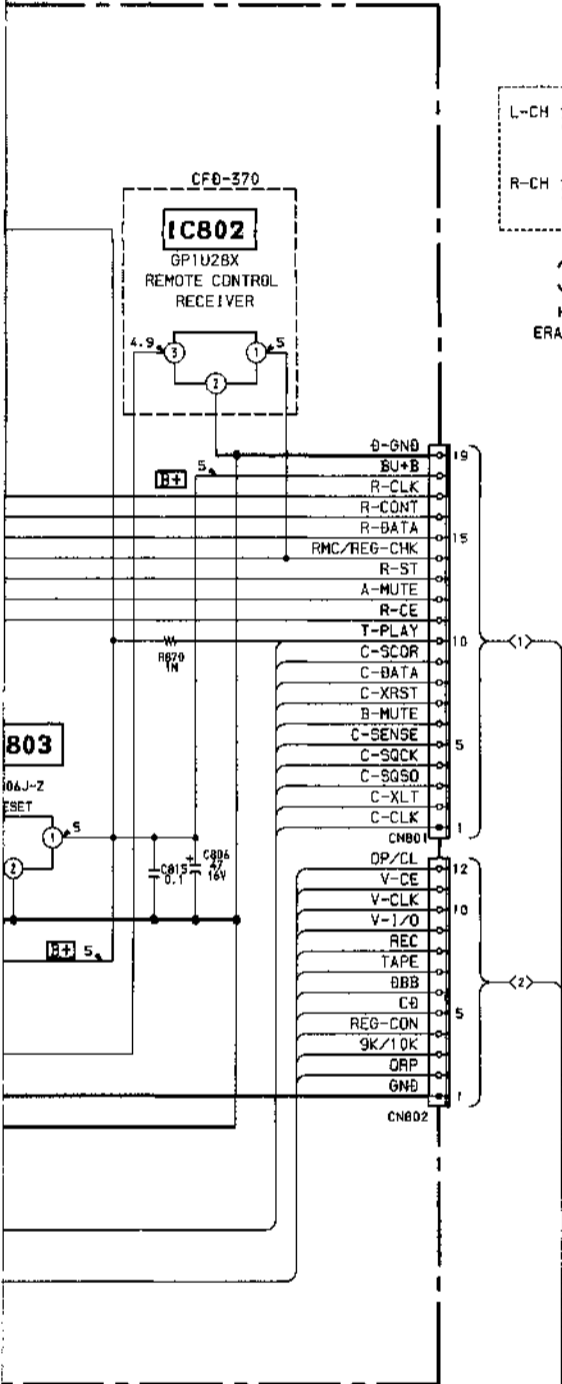


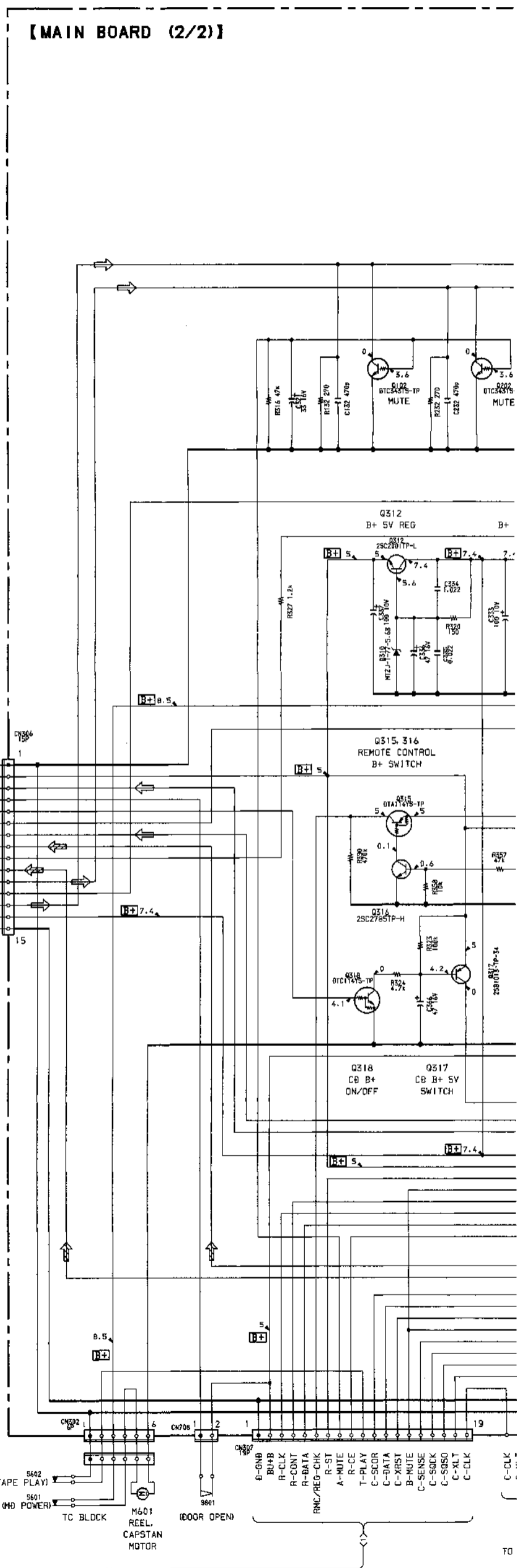
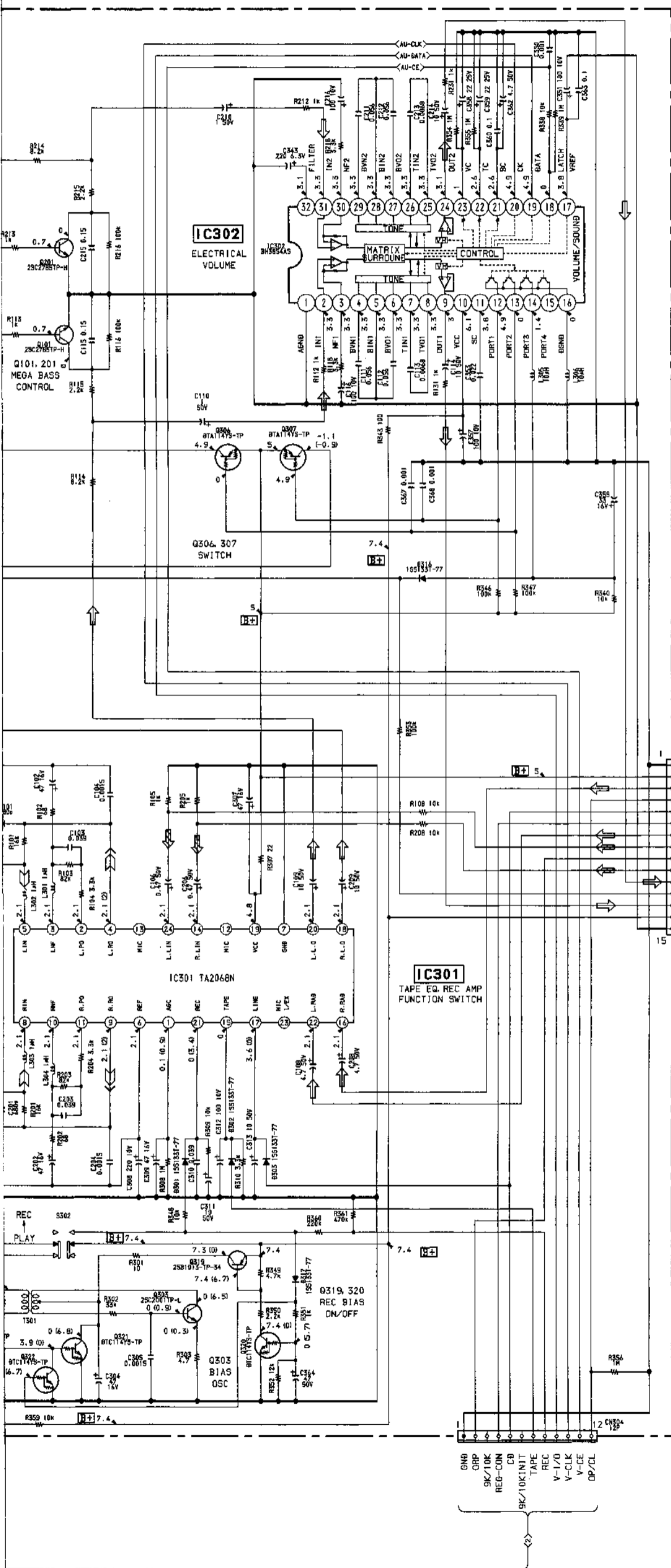
IC301 TA2068N



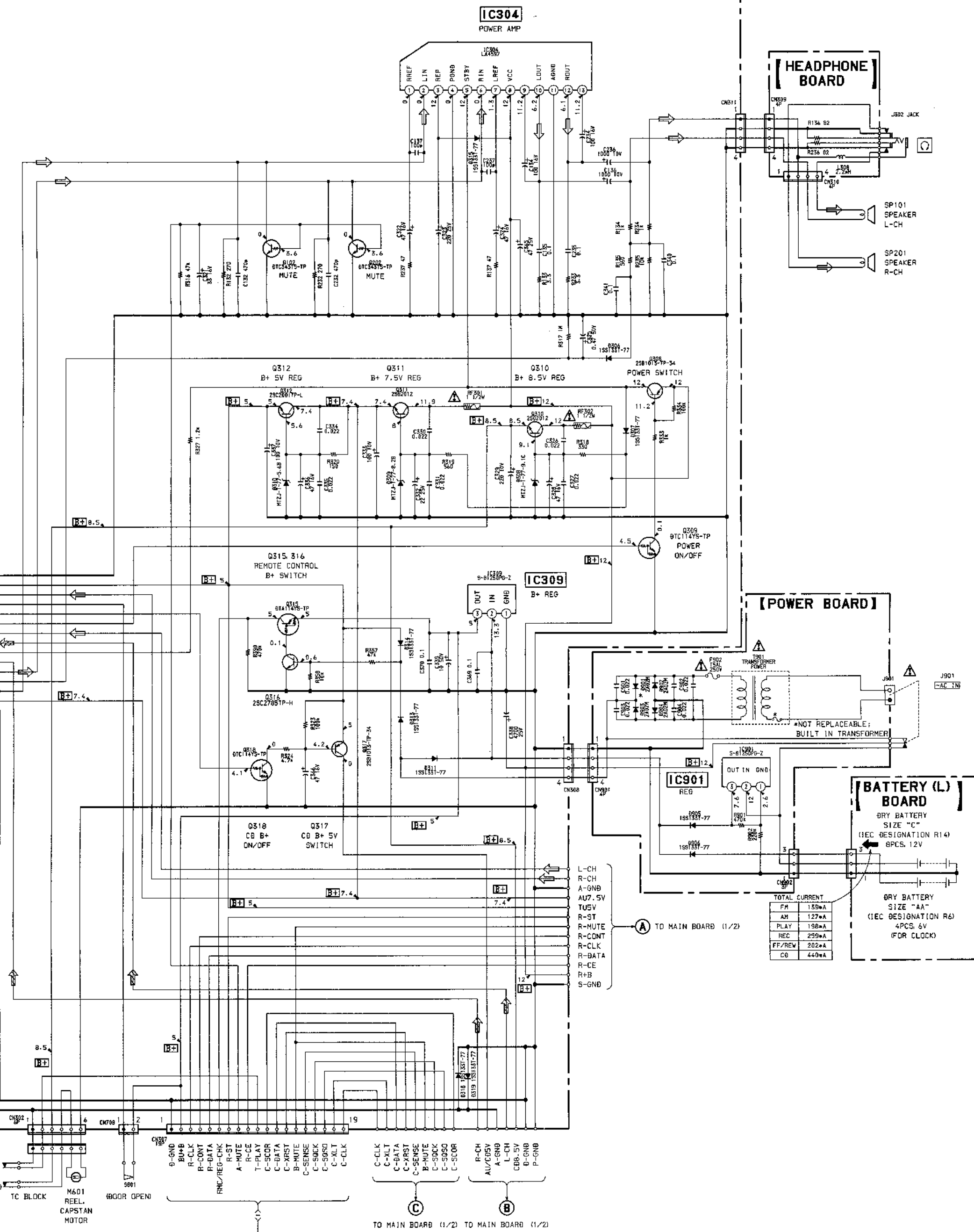


[TC BOARD]





MAIN BOARD (2/2)



TOTAL CURRENT

FM	159mA
AM	127mA
PLAY	198mA
REC	259mA
FF/REW	202mA
CB	440mA

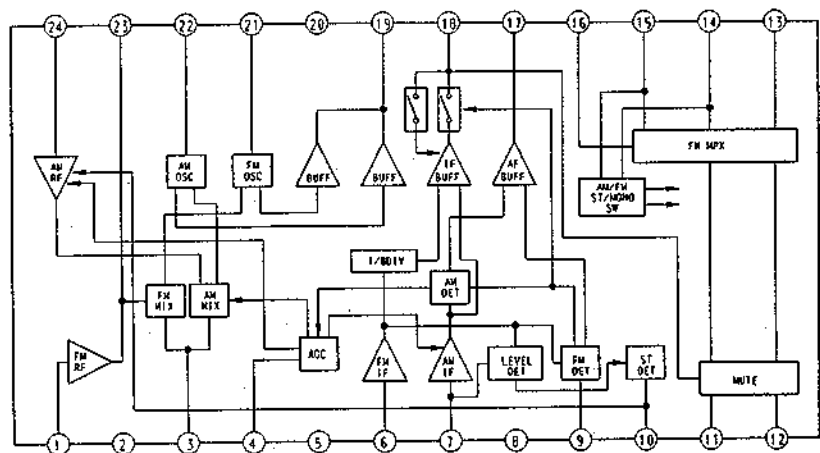
BATTERY (L) BOARD

DRY BATTERY
SIZE "C"
(IEC DESIGNATION R14)
6PCS. 1.2V

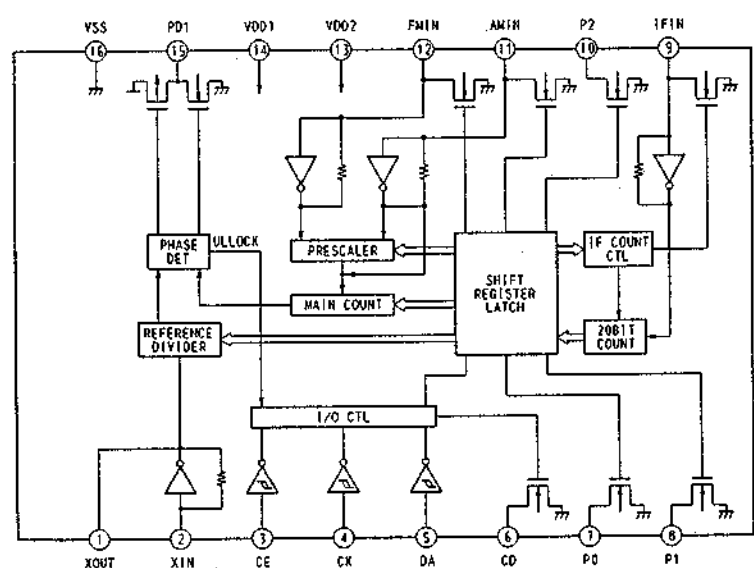
DRY BATTERY
SIZE "AA"
(IEC DESIGNATION R6)
4PCS. 6V
(FOR CLOCK)

● IC BLOCK DIAGRAMS – MAIN SECTION (1/2) –

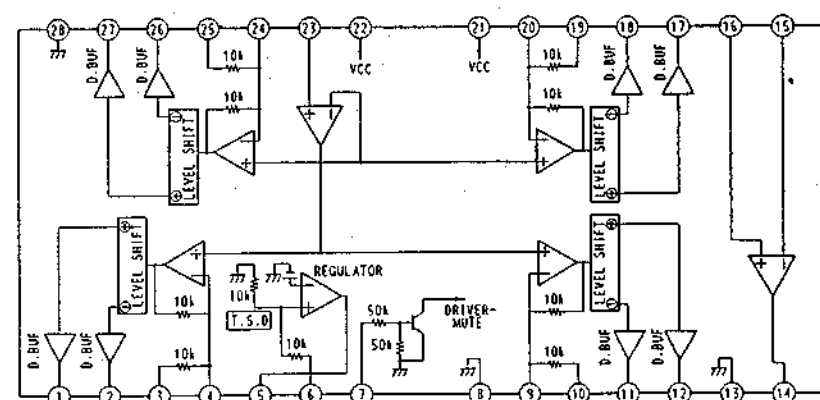
IC1 TA2008AN



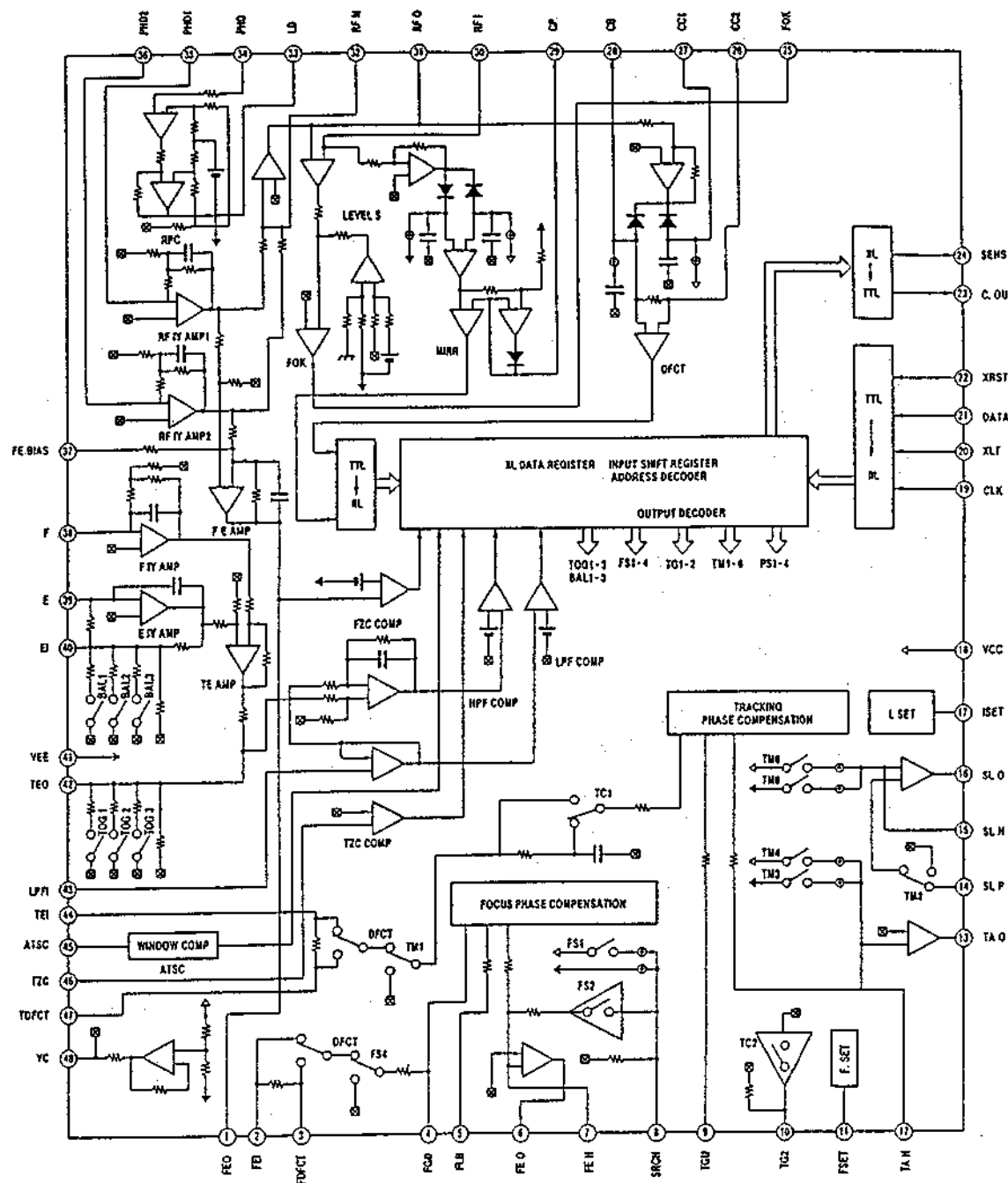
IC3 BU2614



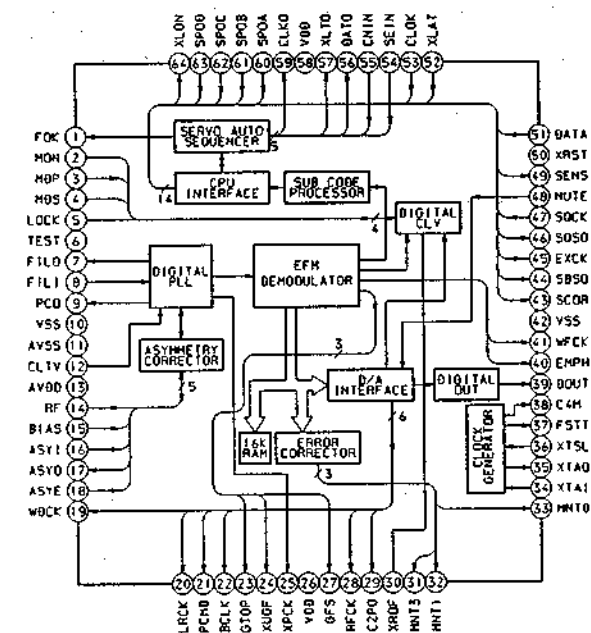
IC703 BA5930FP



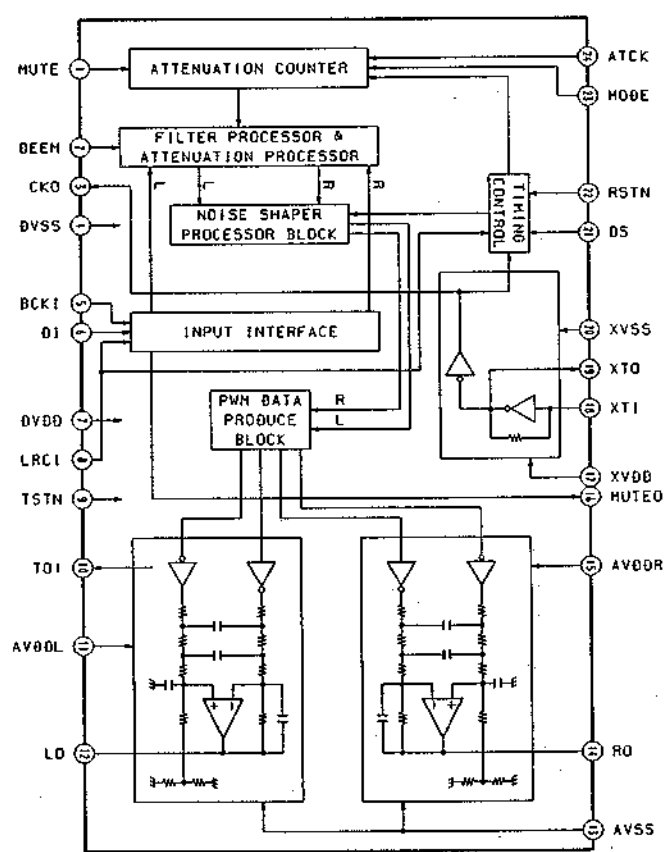
IC701 CXA1782BQ



IC702 CXD2507AQ



IC704 SM5877AM



SECTION 7 EXPLODED VIEWS

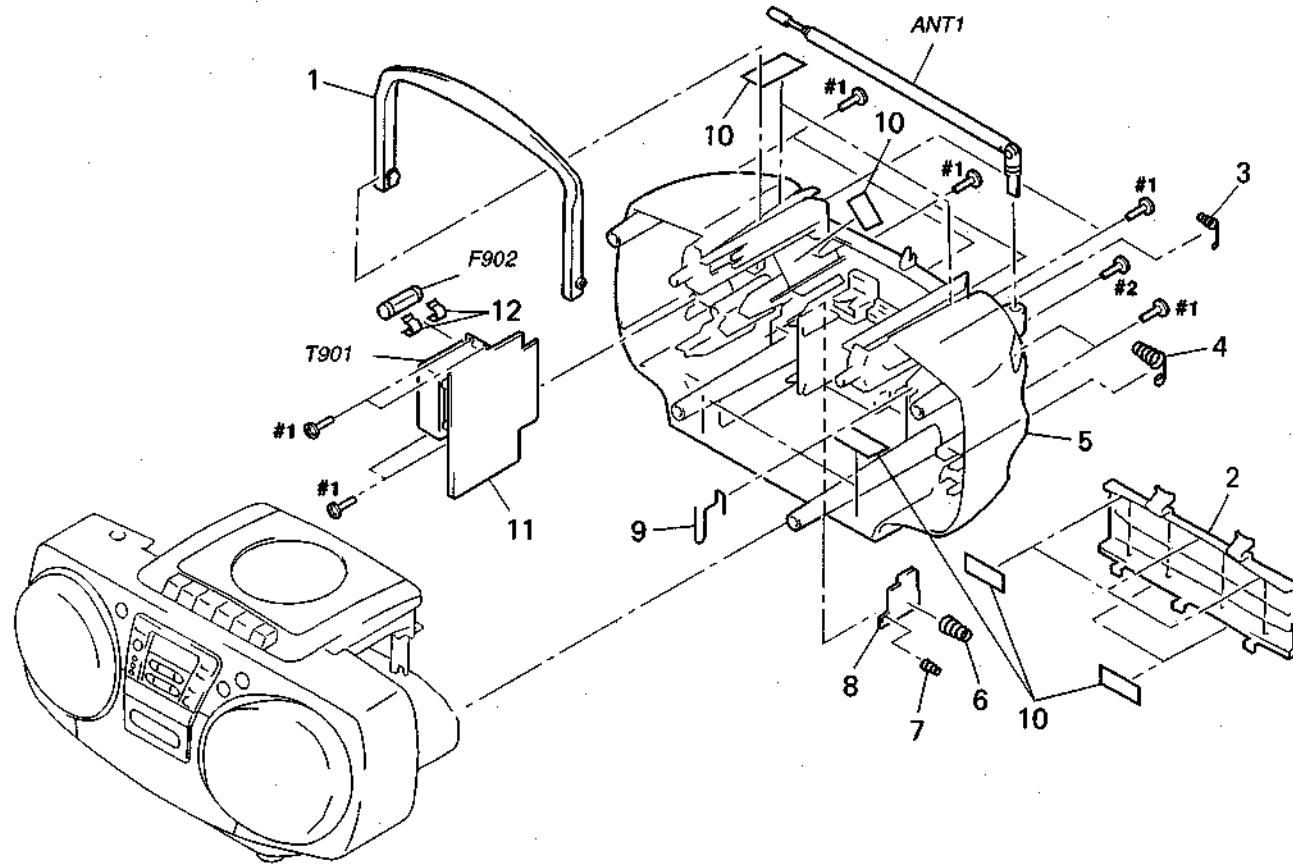
NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

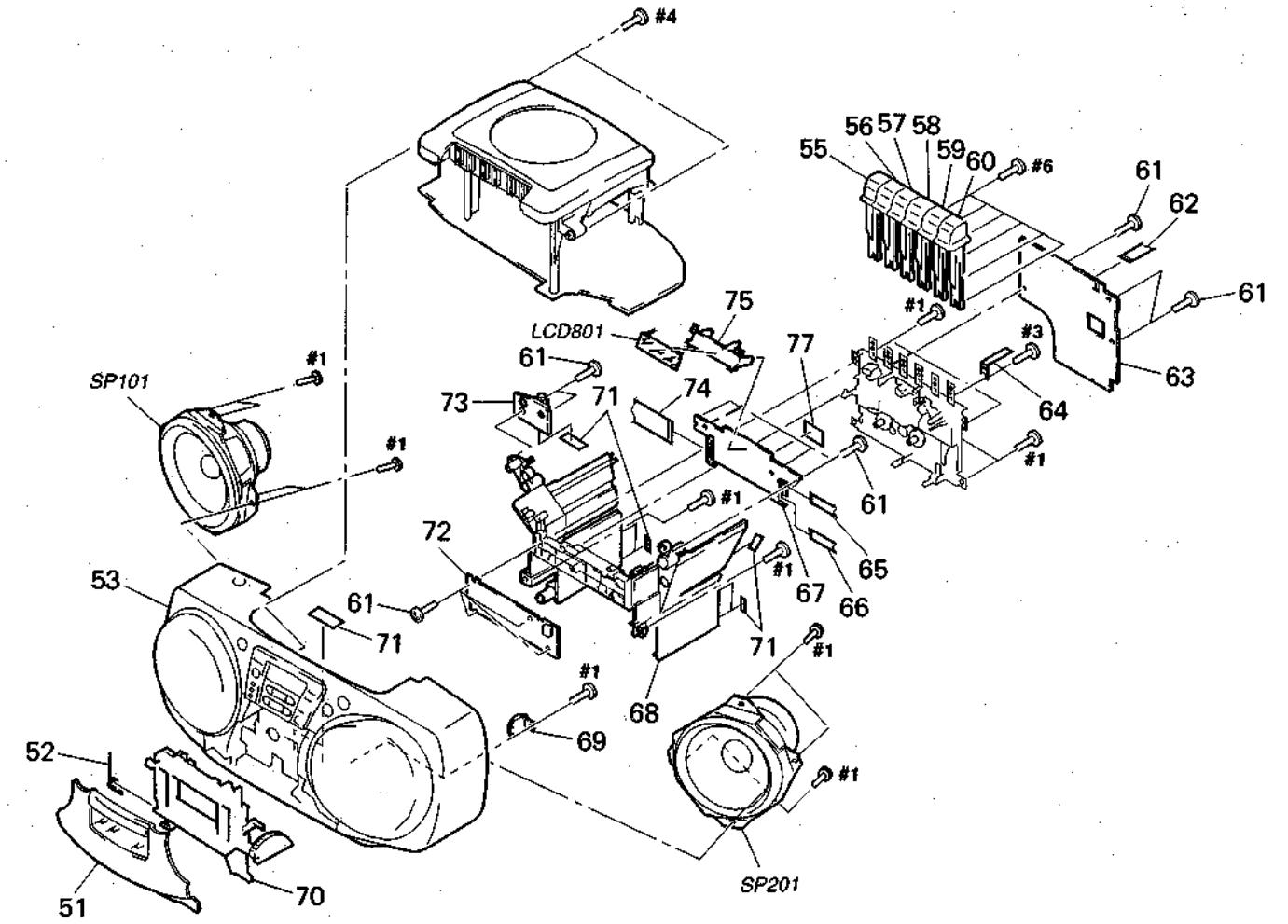
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

7-1. REAR CABINET SECTION



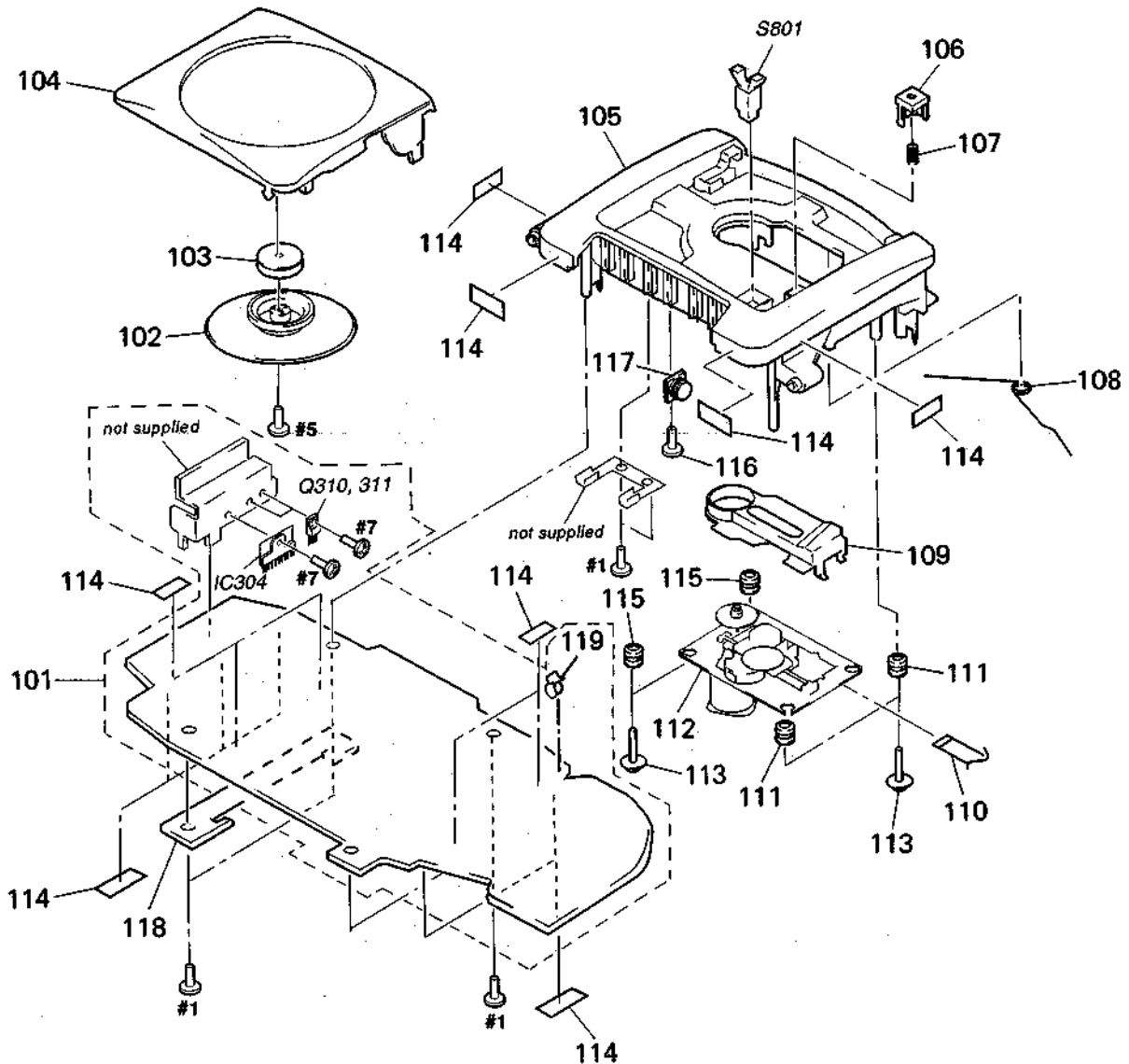
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-938-851-01	HANDLE		9	3-938-847-01	TERMINAL, ANT	
2	3-938-845-01	LID, BATTERY		* 10	3-378-434-01	CUSHION, SARANET	
3	3-938-852-01	SPRING, BACK UP		* 11	1-662-024-11	POWER BOARD	
4	3-938-846-01	SPRING (+-), BATT		12	1-533-233-21	HOLDER, FUSE	
5	3-938-844-01	CABINET, REAR		ANT1	1-501-861-11	ANTENNA, TELESCOPIC	
6	3-938-849-01	SPRING (-), BATT		Δ F902	1-532-505-3f	FUSE, TIME LAG (5A/250V)	
7	3-939-057-01	SPRING (-), BACK UP		Δ T901	1-429-758-11	TRANSFORMER, POWER	
* 8	1-662-025-11	BATTERY (L) BOARD					

7-2. FRONT CABINET SECTION



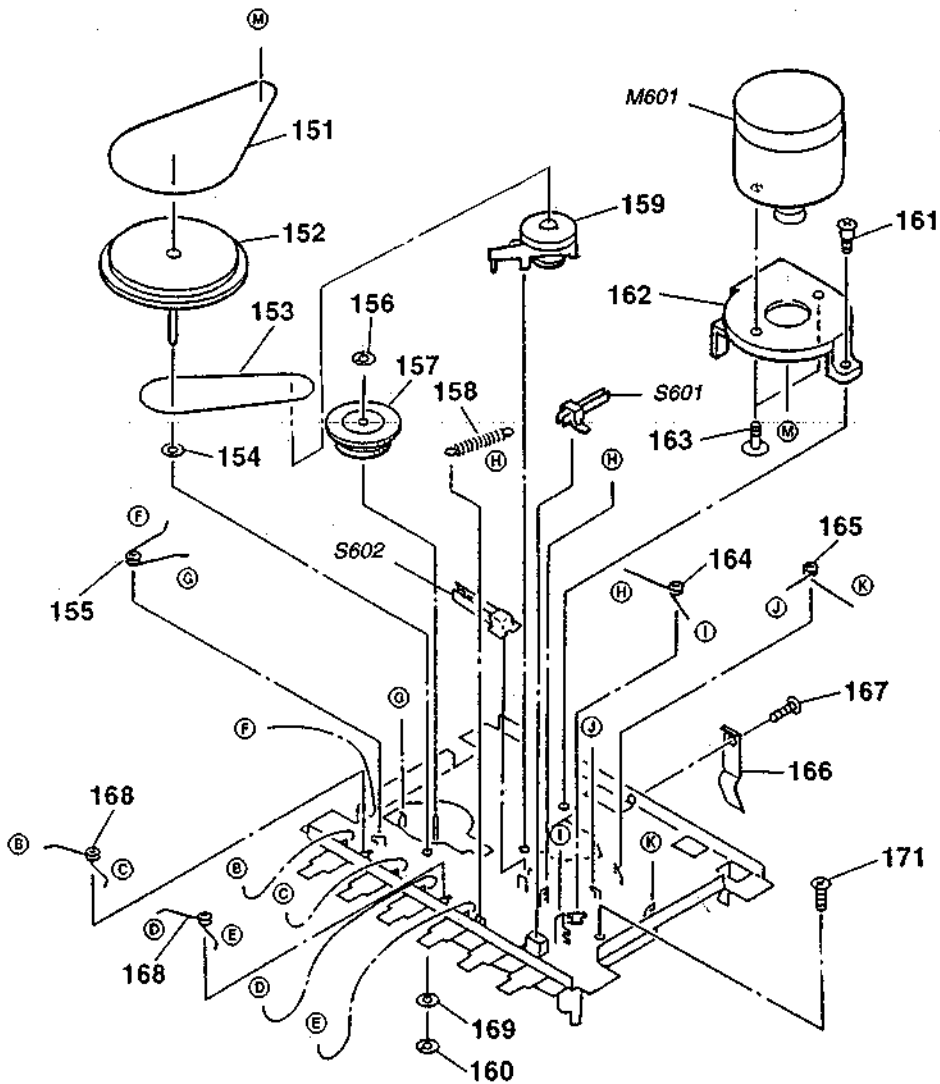
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-938-833-01	HOLDER, CASSETTE		* 67	A-3306-063-A	CONTROL BOARD, COMPLETE (CFD-360)	
52	3-938-832-01	SPRING, CASSETTE OPEN		* 67	A-3306-093-A	CONTROL BOARD, COMPLETE (CFD-370)	
53	X-3372-645-1	CABINET (FRONT) SUB ASSY (CFD-360)		68	3-938-857-01	BRACKET, RELAY	
53	X-3372-661-1	CABINET (FRONT) SUB ASSY (CFD-370)		69	3-351-377-11	DAMPER	
55	3-938-836-01	BUTTON (PAUSE), MD		70	X-3372-646-1	LID ASSY, CASSETTE (CFD-360)	
56	3-938-837-01	BUTTON (S/EJECT), MD		70	X-3372-662-1	LID ASSY, CASSETTE (CFD-370)	
57	3-938-838-01	BUTTON (FF), MD		* 71	3-378-434-01	CUSHION, SARANET	
58	3-938-839-01	BUTTON (REW), MD		* 72	1-662-021-11	SWITCH BOARD	
59	3-938-840-01	BUTTON (PLAY), MD		* 73	1-662-028-11	HEADPHONE BOARD	
60	3-938-841-01	BUTTON (REC), MD		74	1-777-330-11	WIRE (FLAT TYPE) (FFC) (19 CORE)	
61	4-931-757-41	SCREW (DIA.2.6X10) (IT3B)		* 75	3-938-827-01	HOLDER, LCD	
62	1-777-329-11	WIRE (FLAT TYPE) (FFC) (15 CORE)		77	3-008-119-01	SHEET (B), ADHESIVE	
* 63	A-3306-065-A	TC BOARD, COMPLETE		LCD801	1-801-457-11	LIQUID CRYSTAL DISPLAY	
64	3-938-835-01	LEVER, REC		SP101	1-505-434-11	SPEAKER (10cm) (L-CH)	
65	1-777-331-11	WIRE (FLAT TYPE) (FFC) (4 CORE)		SP201	1-505-434-11	SPEAKER (10cm) (R-CH)	
66	1-777-328-11	WIRE (FLAT TYPE) (FFC) (12 CORE)					

7-3. CD CHASSIS SECTION



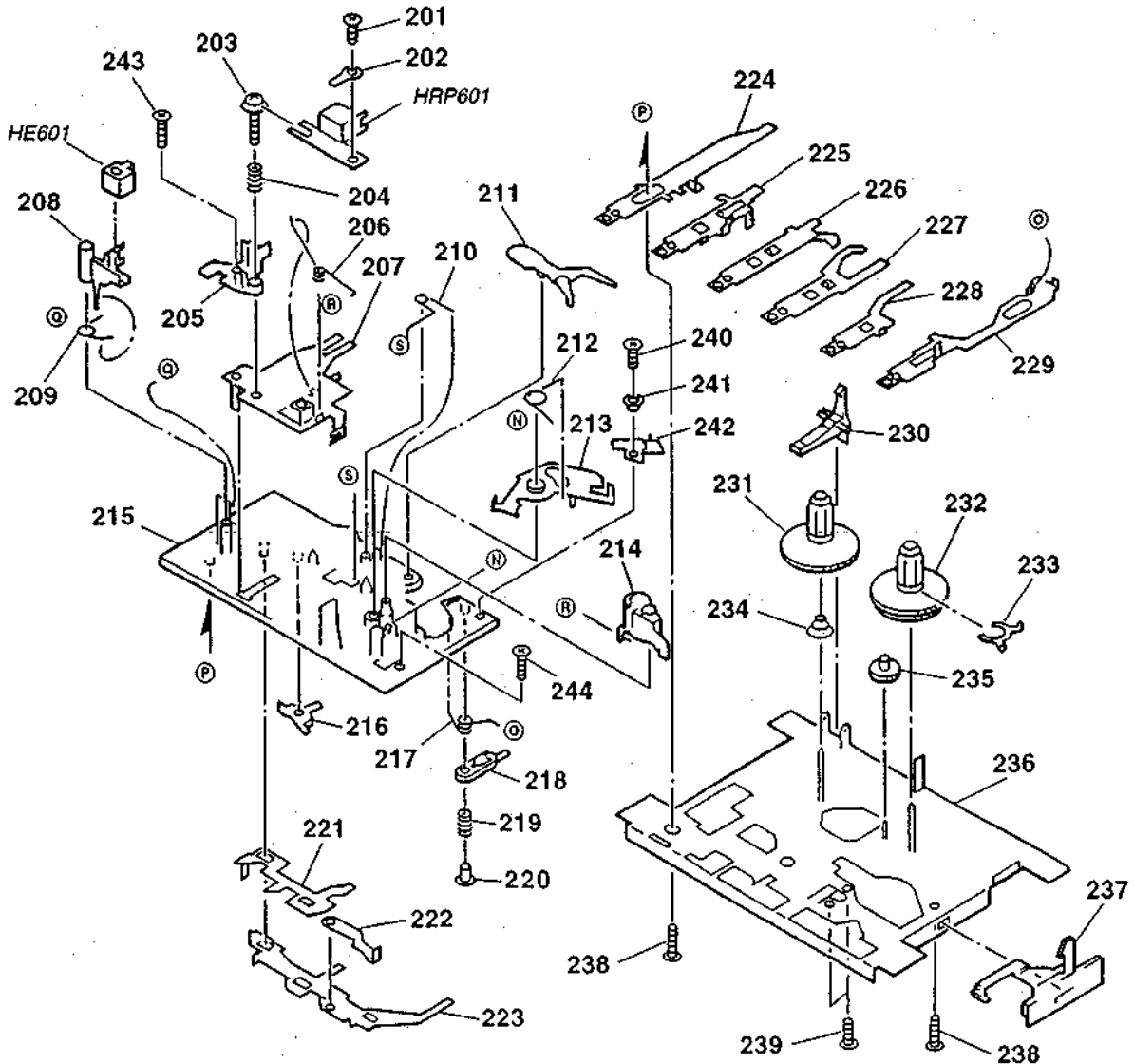
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	A-3306-067-A	MAIN BOARD, COMPLETE		* 112	1-662-029-11	CD MOTOR BOARD	
102	3-923-497-01	PLATE, CHUCK		113	3-921-725-01	SCREW (2.6X10), +PWH	
103	1-452-732-11	MAGNET		* 114	3-378-434-01	CUSHION, SARANET	
104	3-938-854-01	LID, CD (CFD-360)		115	3-910-095-11	RUBBER, VIBRATION PROOF	
104	3-938-854-11	LID, CD (CFD-370)		116	4-931-757-41	SCREW (DIA.2.6X10) (IT3B)	
105	3-938-853-01	CHASSIS, CD		117	3-351-377-01	DAMPER	
106	3-939-527-01	SLIDER, PUSH		* 118	1-663-473-11	RETAINER BOARD	
107	3-938-884-01	SPRING, CD COIL		119	1-533-233-21	HOLDER, FUSE	
108	3-938-856-01	SPRING, CD OPEN		IC304	8-759-820-22	IC LA4597	
109	3-910-116-01	COVER, CD		Q310	8-729-209-15	TRANSISTOR 2SD2012	
110	1-777-332-11	WIRE (FLAT TYPE) (FFC) (16 CORE)		Q311	8-729-209-15	TRANSISTOR 2SD2012	
111	3-910-095-01	RUBBER, VIBRATION PROOF		S801	1-692-960-11	SWITCH, PUSH (1 KEY) (DOOR OPEN)	

**7-4. MECHANISM DECK SECTION-1
(MF-CFD360)**



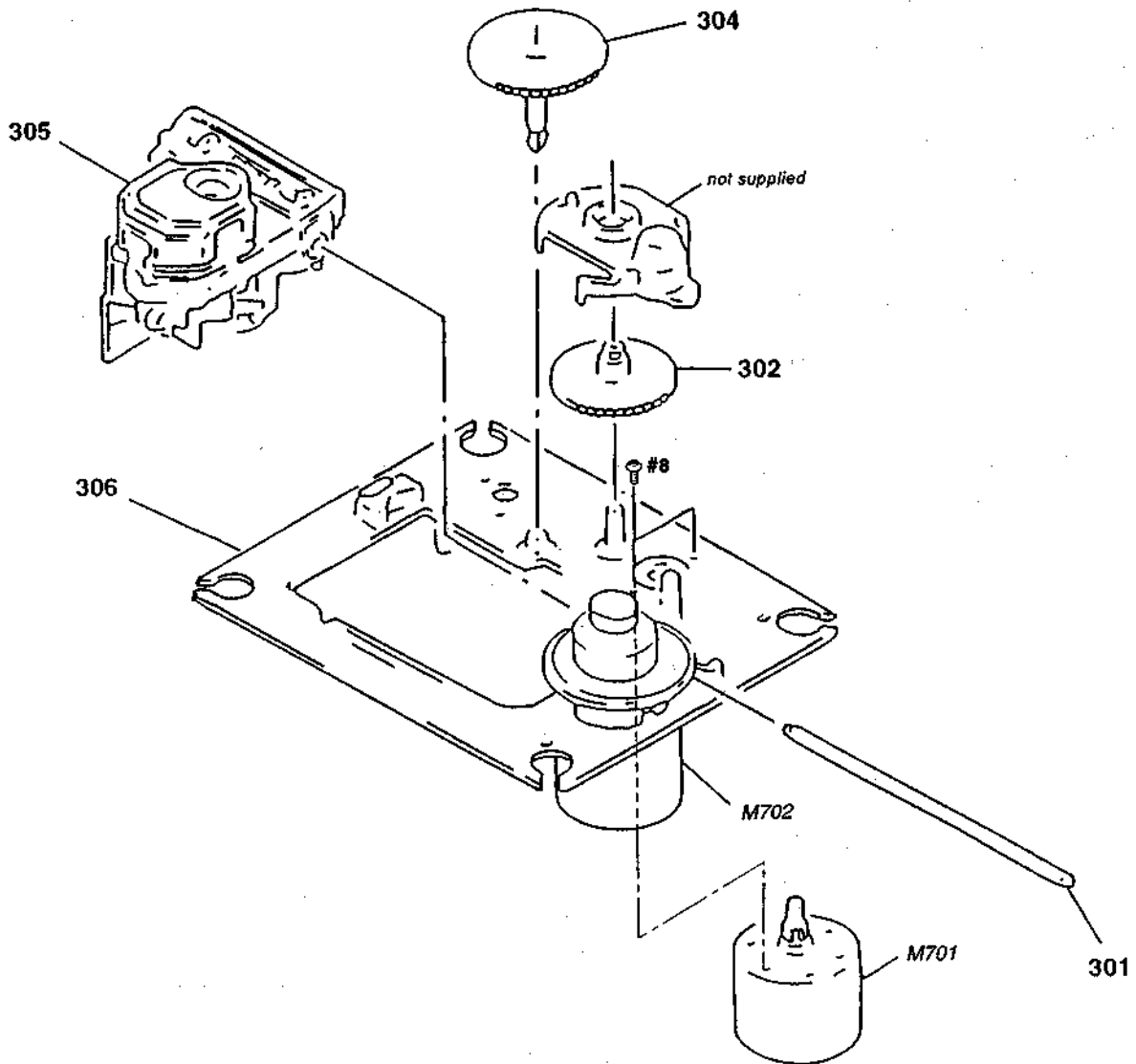
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-933-843-01	BELT, MAIN		163	3-933-841-01	SCREW, MOTOR COLLER	
152	3-933-834-01	FLYWHEEL ASSY		164	3-933-812-01	SPRING, P.S LEVER	
153	3-933-833-01	BELT, RF		165	3-933-815-01	SPRING, REC BUTTON LEVER	
154	3-933-858-01	WASHER, P		166	3-933-846-01	SPRING, PACK	
155	3-933-811-01	SPRING, E ACTUATOR		167	3-933-849-01	SCREW (2X3), DELTITE	
156	3-933-856-01	CUT, P WASHER		168	3-933-809-01	SPRING (A), BUTTON LEVER	
157	3-933-831-01	GEAR, CAM		169	3-933-859-01	WASHER, P	
* 158	3-933-817-01	SPRING (S), PLAY BUTTON LEVER		171	3-933-848-01	SCREW (M2X3), C TAPPING	
159	3-933-832-01	CLUTCH ASSY, RF		M601	X-3373-410-1	MOTOR ASSY	
160	3-933-857-01	CUT, P WASHER		S601	1-762-658-11	SWITCH, LEAF (MSW-1541T) (MD POWER)	
161	3-933-844-01	SCREW, MB		S602	1-762-819-11	SWITCH, LEAF (TAPE PLAY)	
162	3-933-840-01	BRACKET, MOTOR					

**7-5. MECHANISM DECK SECTION-2
(MF-CFD360)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-933-852-01	SCREW (M2X3), + BIND		225	3-933-800-01	LEVER, PLAY BUTTON	
202	3-933-860-01	PLATE, LUG		226	3-933-801-01	LEVER, REW BUTTON	
203	3-933-854-01	SCREW (M2X7), AZIMUTH		227	3-933-802-01	LEVER, FF BUTTON	
204	3-933-822-01	SPRING, AZIMUTH		* 228	3-933-803-01	LEVER, STOP BUTTON	
205	3-933-819-01	BASE, HEAD		229	3-933-804-01	LEVER, PAUSE BUTTON	
206	3-933-820-01	SPRING, PANEL (P)		230	3-933-847-01	LEVER, RECORD SAFETY	
207	3-933-818-01	PANEL, HEAD		231	3-933-837-01	REEL ASSY, SUPPLY	
208	3-933-821-01	ARM, MG		232	3-933-838-01	REEL ASSY, TAKE UP	
209	3-933-816-01	SPRING, MG ARM		233	3-933-839-01	SENSOR	
210	3-933-823-01	SPRING, M CONTROL		234	3-933-836-01	SPRING, BACK TENSION	
211	3-933-828-01	LEVER, SENSING		235	3-933-835-01	GEAR, FF	
212	3-933-829-01	SPRING, GEAR PLATE		* 236	3-933-810-01	CHASSIS ASSY	
213	3-933-830-01	PLATE ASSY, GEAR		237	3-933-845-01	LEVER, EJECT SLIDE	
214	3-933-825-01	ARM ASSY, PINCH ROLLER		238	3-933-850-01	SCREW (M2X5), P TAPPING BIND	
215	3-933-796-01	BASE ASSY		239	3-933-851-01	SCREW (M2X4.5), TAPPING	
216	3-933-814-01	STOPPER, PR		240	3-933-824-01	SCREW (2X3), PS TAPPING	
217	3-933-805-01	SPRING, P CONTROL		241	3-933-827-01	COLLER, P ARM	
218	3-933-806-01	LEVER (E), PAUSE		* 242	3-933-826-01	ARM, P	
219	3-933-807-01	SPRING, PAUSE LEVER		243	3-933-853-01	SCREW (M2X6)	
220	3-933-808-01	STOPPER, PAUSE		244	3-933-855-01	SCREW (M2X8), S TAPPING	
221	3-933-797-01	ACTUATOR, SWITCH		HE601	1-500-334-11	HEAD, E (TC-238)(ERASE)	
* 222	3-933-813-01	LEVER, E KICK		HRP601	1-500-333-11	HEAD, R-P (MS15R-AA2N1)	(RECORD/PLAYBACK)
223	3-933-798-01	ACTUATOR, PUSH BUTTON					
* 224	3-933-799-01	LEVER, REC BUTTON					

**7-6. OPTICAL PICK-UP SECTION
(KSM-213BAN/S-N)**



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	2-626-908-01	SHAFT, SLED		306	X-2625-770-1	CHASSIS ASSY (MB) (RP), MOTOR (INCLUDING M702) (SPINDLE)	
302	2-627-003-01	GEAR(B) (RP)		M701	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
304	2-626-907-01	GEAR (A) (S)					
Δ 305	8-848-376-01	OPTICAL PICK-UP KSS-213B/S-N					

SECTION 8 ELECTRICAL PARTS LIST

BATTERY (L)

CD MOTOR

CONTROL

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE :Metal oxide-film resistor
F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● SEMICONDUCTORS

In each case, u : μ , for example :
uA..... : μ A..... , uPA..... : μ PA.....
uPB..... : μ PB..... , uPC..... : μ PC.....
uPD..... : μ PD.....

● CAPACITORS

uF : μ F

● COILS

uH : μ H

● Abbreviation

G : German IT : Italian

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-662-025-11	BATTERY (L) BOARD *****		C864	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
	3-938-849-01	SPRING (-), BATT		C865	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
	3-939-057-01	SPRING (-), BACK UP		C880	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V	
*****				< CONNECTOR >			
*	1-662-029-11	CD MOTOR BOARD *****		CN801	1-691-078-41	HOUSING, CONNECTOR 19P	
		< SWITCH >		CN802	1-691-071-31	HOUSING, CONNECTOR 12P	
S701	1-571-936-11	SWITCH, LEAF (LIMIT)		CN803	1-691-063-21	HOUSING, CONNECTOR 4P	
*****				< IC >			
*	A-3306-063-A	CONTROL BOARD, COMPLETE (CFD-360)		IC801	8-759-435-03	IC MSM65353A-827GS-BK4	
*	A-3306-093-A	CONTROL BOARD, COMPLETE (CFD-370) *****		IC802	8-749-011-05	IC GP1U28X (CFD-370)	
		< COIL >		IC803	8-759-249-81	IC S-806J	
	3-008-119-01	SHEET (B), ADHESIVE		L802	1-410-393-11	INDUCTOR CHIP 100uH	
*	3-938-827-01	HOLDER, LCD		L803	1-410-393-11	INDUCTOR CHIP 100uH	
		< CAPACITOR >		L804	1-410-393-11	INDUCTOR CHIP 100uH	
C801	1-124-589-11	ELECT 47uF 20% 16V		L805	1-410-393-11	INDUCTOR CHIP 100uH	
C802	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		L806	1-410-393-11	INDUCTOR CHIP 100uH	
C806	1-124-589-11	ELECT 47uF 20% 16V		< LIQUID CRYSTAL DISPLAY >			
C807	1-124-589-11	ELECT 47uF 20% 16V		LCD801	1-801-457-11	LIQUID CRYSTAL DISPLAY	
C808	1-163-235-11	CERAMIC CHIP 22PF 5% 50V		< RESISTOR >			
C809	1-163-235-11	CERAMIC CHIP 22PF 5% 50V		R801	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C810	1-124-589-11	ELECT 47uF 20% 16V		R802	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C811	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		R803	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C812	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		R804	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C813	1-163-251-11	CERAMIC CHIP 100PF 5% 50V		R805	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C814	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		R806	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C815	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		R807	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C816	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		R808	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C817	1-124-589-11	ELECT 47uF 20% 16V		R809	1-216-073-00	METAL CHIP 10K 5% 1/10W	
C818	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		R810	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C820	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V		R811	1-216-049-91	METAL GLAZE 1K 5% 1/10W	
C821	1-163-009-11	CERAMIC CHIP 0.001uF 10% 50V		R812	1-216-049-91	METAL GLAZE 1K 5% 1/10W	

CONTROL	HEADPHONE	MAIN
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Ref. No.	Part No.	Description	Remark
R813	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R815	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R816	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R817	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R818	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R819	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R820	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R821	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R822	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R823	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R824	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R825	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R826	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R827	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R828	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R829	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R830	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R831	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R832	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R833	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R834	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R835	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R836	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R837	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R838	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R840	1-216-065-00	METAL CHIP 4.7K	5% 1/10W
R842	1-216-053-00	METAL CHIP 1.5K	5% 1/10W
R843	1-216-041-00	METAL CHIP 470	5% 1/10W
R846	1-216-065-00	METAL CHIP 4.7K	5% 1/10W
R847	1-216-065-00	METAL CHIP 4.7K	5% 1/10W
R848	1-216-065-00	METAL CHIP 4.7K	5% 1/10W
R860	1-216-045-00	METAL CHIP 680	5% 1/10W
R861	1-216-065-00	METAL CHIP 4.7K	5% 1/10W
R862	1-216-045-00	METAL CHIP 680	5% 1/10W
R863	1-216-047-91	METAL GLAZE 820	5% 1/10W
R864	1-216-051-00	METAL CHIP 1.2K	5% 1/10W
R865	1-216-109-00	METAL CHIP 330K	5% 1/10W
R870	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R871	1-216-073-00	METAL CHIP 10K	5% 1/10W
R872	1-216-073-00	METAL CHIP 10K	5% 1/10W
< SWITCH >			
S801	1-572-199-11	SWITCH, KEY BOARD (SLEEP)	
S802	1-572-199-11	SWITCH, KEY BOARD (POWER)	
S803	1-572-199-11	SWITCH, KEY BOARD (SOUND)	
S804	1-572-199-11	SWITCH, KEY BOARD (MEGA BASS)	
S805	1-572-199-11	SWITCH, KEY BOARD (VOLUME +)	
S806	1-572-199-11	SWITCH, KEY BOARD (VOLUME -)	

Ref. No.	Part No.	Description	Remark
< VIBRATOR >			
X801	1-767-322-11	OSCILLATOR, CERAMIC (4.19MHz)	
X802	1-567-098-41	VIBRATOR, CRYSTAL (32.768KHz)	

*	1-662-028-11	HEADPHONE BOARD	*****
< CONNECTOR >			
* CN309	1-564-519-11	PLUG, CONNECTOR 4P	
* CN310	1-564-519-11	PLUG, CONNECTOR 4P	
< JACK >			
J302	1-568-267-11	JACK (⊘)	
< COIL >			
L308	1-414-146-31	INDUCTOR 2.2uH	
< RESISTOR >			
R136	1-249-404-00	CARBON 82 5% 1/4W	
R236	1-249-404-00	CARBON 82 5% 1/4W	

*	A-3306-067-A	MAIN BOARD, COMPLETE	*****
	1-533-233-21	HOLDER, FUSE	
< CAPACITOR >			
C2	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C3	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C4	1-102-960-00	CERAMIC 24PF 5% 50V	
C5	1-162-203-31	CERAMIC 15PF 5% 50V	
C7	1-161-055-00	CERAMIC 0.022uF 10% 50V	
C8	1-162-201-31	CERAMIC 12PF 5% 50V	
C9	1-102-821-00	CERAMIC 360PF 5% 50V	
C10	1-162-851-11	CERAMIC 0.1uF 16V	
C11	1-102-820-00	CERAMIC 330PF 5% 50V	
C12	1-126-964-11	ELECT 10uF 20% 50V	
C13	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C14	1-161-061-11	CERAMIC 0.068uF 10% 50V	
C15	1-161-024-00	CERAMIC 0.082uF 10% 25V	
C16	1-161-024-00	CERAMIC 0.082uF 10% 25V	
C17	1-126-963-11	ELECT 4.7uF 20% 50V	
C18	1-126-967-11	ELECT 47uF 20% 16V	
C19	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C22	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C23	1-161-053-00	CERAMIC 0.015uF 10% 50V	
C24	1-161-053-00	CERAMIC 0.015uF 10% 50V	
C26	1-126-963-11	ELECT 4.7uF 20% 50V	
C27	1-126-963-11	ELECT 4.7uF 20% 50V	
C44	1-161-051-00	CERAMIC 0.01uF 10% 50V	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C45	1-136-177-00	FILM	1uF	5%	50V	C332	1-128-551-11	ELECT	22uF	20%	25V
C46	1-126-964-11	ELECT	10uF	20%	50V	C333	1-126-933-11	ELECT	100uF	20%	10V
C47	1-162-306-11	CERAMIC	0.01uF	30%	16V	C334	1-161-055-00	CERAMIC	0.022uF	10%	50V
C48	1-126-964-11	ELECT	10uF	20%	50V	C335	1-161-055-00	CERAMIC	0.022uF	10%	50V
C49	1-162-306-11	CERAMIC	0.01uF	30%	16V	C336	1-126-967-11	ELECT	47uF	20%	16V
C50	1-162-294-31	CERAMIC	0.001uF	10%	50V	C337	1-126-933-11	ELECT	100uF	20%	10V
C51	1-162-294-31	CERAMIC	0.001uF	10%	50V	C338	1-128-548-11	ELECT	4700uF	20%	25V
C53	1-162-294-31	CERAMIC	0.001uF	10%	50V	C339	1-126-964-11	ELECT	10uF	20%	50V
C54	1-102-518-11	CERAMIC	33PF	5%	50V	C340	1-162-851-11	CERAMIC	0.1uF		16V
C55	1-162-199-31	CERAMIC	10PF	5%	50V	C341	1-162-851-11	CERAMIC	0.1uF		16V
C56	1-162-290-31	CERAMIC	470PF	10%	50V	C365	1-104-664-11	ELECT	47uF	20%	25V
C57	1-162-286-21	CERAMIC	220PF	10%	50V	C366	1-126-967-11	ELECT	47uF	20%	16V
C58	1-162-306-11	CERAMIC	0.01uF	30%	16V	C369	1-162-851-11	CERAMIC	0.1uF	10%	16V
C59	1-162-306-11	CERAMIC	0.01uF	30%	16V	C370	1-162-851-11	CERAMIC	0.1uF	10%	16V
C60	1-126-964-11	ELECT	10uF	20%	50V	C701	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C62	1-162-294-31	CERAMIC	0.001uF	10%	50V	C702	1-162-851-11	CERAMIC	0.1uF	10%	16V
C63	1-162-306-11	CERAMIC	0.01uF	30%	16V	C703	1-162-851-11	CERAMIC	0.1uF	10%	16V
C64	1-162-198-31	CERAMIC	8.2PF	10%	50V	C704	1-162-851-11	CERAMIC	0.1uF	10%	16V
C66	1-161-051-00	CERAMIC	0.01uF	10%	50V	C705	1-126-963-11	ELECT	4.7uF	20%	50V
C68	1-162-215-31	CERAMIC	47PF	5%	50V	C706	1-130-489-00	MYLAR	0.033uF	5%	50V
C69	1-162-306-11	CERAMIC	0.01uF	30%	16V	C707	1-130-486-00	MYLAR	0.018uF	10%	50V
C70	1-162-294-31	CERAMIC	0.001uF	10%	50V	C708	1-162-199-31	CERAMIC	10PF	5%	50V
C71	1-162-294-31	CERAMIC	0.001uF	10%	50V	C709	1-126-962-11	ELECT	3.3uF	20%	50V
C72	1-162-306-11	CERAMIC	0.01uF	30%	16V	C710	1-130-493-00	MYLAR	0.068uF	5%	50V
C73	1-136-177-00	FILM	1uF	5%	50V	C711	1-162-215-31	CERAMIC	47PF	5%	50V
C74	1-162-282-31	CERAMIC	100PF	10%	50V	C713	1-130-489-00	MYLAR	0.033uF	5%	50V
C75	1-162-282-31	CERAMIC	100PF	10%	50V	C714	1-162-306-11	CERAMIC	0.01uF	30%	16V
C76	1-162-294-31	CERAMIC	0.001uF	10%	50V	C715	1-130-489-00	MYLAR	0.033uF	5%	50V
C78	1-162-306-11	CERAMIC	0.01uF	30%	16V	C716	1-130-495-00	MYLAR	0.1uF	5%	50V
C95	1-104-666-11	ELECT	220uF	20%	25V	C717	1-126-967-11	ELECT	47uF	20%	10V
C96	1-162-306-11	CERAMIC	0.01uF	30%	16V	C718	1-126-964-11	ELECT	10uF	20%	50V
C132	1-162-290-31	CERAMIC	470PF	10%	50V	C721	1-130-491-00	MYLAR	0.047uF	5%	50V
C134	1-126-933-11	ELECT	100uF	20%	16V	C722	1-101-005-00	CERAMIC	22000PF		50V
C135	1-136-165-00	FILM	0.1uF	5%	50V	C723	1-162-851-11	CERAMIC	0.1uF	10%	16V
C136	1-126-926-11	ELECT	1000uF	20%	10V	C725	1-162-199-31	CERAMIC	10PF	5%	50V
C137	1-162-282-31	CERAMIC	100PF	10%	50V	C726	1-162-294-31	CERAMIC	0.001uF	10%	50V
C232	1-162-290-31	CERAMIC	470PF	10%	50V	C727	1-162-306-11	CERAMIC	0.01uF	30%	16V
C234	1-126-933-11	ELECT	100uF	20%	16V	C728	1-162-306-11	CERAMIC	0.01uF	30%	16V
C235	1-136-165-00	FILM	0.1uF	5%	50V	C729	1-126-967-11	ELECT	47uF	20%	10V
C236	1-126-926-11	ELECT	1000uF	20%	10V	C730	1-126-934-11	ELECT	220uF	20%	16V
C237	1-162-282-31	CERAMIC	100PF	10%	50V	C731	1-162-306-31	CERAMIC	0.01uF	30%	16V
C321	1-126-966-11	ELECT	33uF	20%	16V	C732	1-130-484-00	MYLAR	0.012uF	5%	50V
C322	1-126-967-11	ELECT	47uF	20%	16V	C733	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C323	1-104-666-11	ELECT	220uF	20%	25V	C734	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C324	1-126-967-11	ELECT	47uF	20%	16V	C741	1-126-967-11	ELECT	47uF	20%	10V
C325	1-124-902-00	ELECT	0.47uF	20%	50V	C742	1-124-902-00	ELECT	0.47uF	20%	50V
C326	1-161-055-00	CERAMIC	0.022uF	10%	50V	C743	1-162-290-31	CERAMIC	470PF	10%	50V
C327	1-161-055-00	CERAMIC	0.022uF	10%	50V	C744	1-162-286-21	CERAMIC	220PF	10%	50V
C328	1-126-967-11	ELECT	47uF	20%	16V	C745	1-130-499-00	MYLAR	0.22uF	5%	50V
C329	1-126-923-11	ELECT	220uF	20%	10V	C746	1-162-306-11	CERAMIC	0.01uF	30%	16V
C330	1-161-055-00	CERAMIC	0.022uF	10%	50V	C747	1-130-483-00	MYLAR	0.01uF	5%	50V
C331	1-161-055-00	CERAMIC	0.022uF	10%	50V	C750	1-162-306-11	CERAMIC	0.01uF	30%	16V

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark
C752	1-162-199-31	CERAMIC	10PF	5%	50V	D8	8-719-991-33	DIODE 1SS133T-77	
C753	1-162-199-31	CERAMIC	10PF	5%	50V	D306	8-719-991-33	DIODE 1SS133T-77	
C754	1-126-923-11	ELECT	220uF	20%	10V	D307	8-719-991-33	DIODE 1SS133T-77	
C755	1-162-306-11	CERAMIC	0.01uF	30%	16V	D308	8-719-110-14	DIODE RD9.1ES-B3	
C756	1-162-306-11	CERAMIC	0.01uF	30%	16V	D309	8-719-110-08	DIODE RD8.2ES-B2	
C760	1-126-923-11	ELECT	220uF	20%	10V	D310	8-719-109-89	DIODE RD5.6ESB2	
C763	1-162-302-11	CERAMIC	0.0022uF	30%	16V	D311	8-719-991-33	DIODE 1SS133T-77	
C764	1-124-903-11	ELECT	1uF	20%	50V	D313	8-719-991-33	DIODE 1SS133T-77	
C773	1-162-302-11	CERAMIC	0.0022uF	30%	16V	D314	8-719-991-33	DIODE 1SS133T-77	
C774	1-124-903-11	ELECT	1uF	20%	50V	D315	8-719-991-33	DIODE 1SS133T-77	
C781	1-126-923-11	ELECT	220uF	20%	10V	D318	8-719-991-33	DIODE 1SS133T-77	
C782	1-162-306-11	CERAMIC	0.01uF	30%	16V	D319	8-719-991-33	DIODE 1SS133T-77	
C787	1-126-923-11	ELECT	220uF	20%	10V			< FILTER >	
C788	1-162-294-31	CERAMIC	0.001uF	10%	50V	FL1	1-236-022-11	FILTER, BAND PASS	
C789	1-162-294-31	CERAMIC	0.001uF	10%	50V			< IC >	
C790	1-162-286-21	CERAMIC	220PF	10%	50V	IC1	8-759-386-02	IC TA2008AN	
C791	1-162-286-21	CERAMIC	220PF	10%	50V	IC3	8-759-333-33	IC BU2614	
C792	1-162-286-21	CERAMIC	220PF	10%	50V	IC304	8-759-820-22	IC LA4597	
C793	1-162-306-11	CERAMIC	0.01uF	30%	16V	IC309	8-759-095-60	IC S-81250PG	
C794	1-162-294-31	CERAMIC	0.001uF	10%	50V	IC701	8-752-069-56	IC CXA1782BQ	
C795	1-162-306-11	CERAMIC	0.01uF	30%	16V	IC702	8-752-372-94	IC CXD2507AQ	
C796	1-162-306-11	CERAMIC	0.01uF	30%	16V	IC703	8-759-336-75	IC BA5930FP	
C797	1-162-306-11	CERAMIC	0.01uF	30%	16V	IC704	8-759-364-34	IC SM5877AM	
C798	1-162-600-11	CERAMIC	0.0047uF	30%	16V			< COIL >	
C799	1-162-282-31	CERAMIC	100PF	10%	50V	L1	1-409-905-11	COIL, FM RF	
		< FILTER >				L2	1-409-905-11	COIL, FM RF	
CF1	1-760-468-11	FILTER, CERAMIC				L3	1-501-762-11	ANTENNA, FERRITE-ROD (MW)	
CF2	1-760-468-11	FILTER, CERAMIC				L4	1-411-234-11	COIL, AM OSC	
CF3	1-760-468-11	FILTER, CERAMIC				L5	1-410-336-11	INDUCTOR 220uH	
CF4	1-579-762-11	VIBRATOR, CERAMIC				L7	1-410-521-11	INDUCTOR 100uH	
		< COMPOSITION CIRCUIT BLOCK >				L8	1-410-509-11	INDUCTOR 10uH	
CFT1	1-239-173-11	ENCAPSULATED COMPONENT				L701	1-414-142-11	INDUCTOR 1uH	
		< CONNECTOR >						< TRANSISTOR >	
* CN302	1-565-302-11	PIN, CONNECTOR (PC BOARD) 6P				Q1	8-729-904-36	TRANSISTOR DTC114YS	
CN306	1-691-648-11	SOCKET, CONNECTOR 15P				Q2	8-729-904-36	TRANSISTOR DTC114YS	
CN307	1-691-650-11	SOCKET, CONNECTOR 19P				Q3	8-729-904-36	TRANSISTOR DTC114YS	
CN701	1-770-646-11	CONNECTOR, FFC/FPC 16P				Q4	8-729-904-36	TRANSISTOR DTC114YS	
* CN703	1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P				Q10	8-729-904-36	TRANSISTOR DTC114YS	
		< TRIMMER >				Q11	8-729-904-36	TRANSISTOR DTC114YS	
CT1	1-141-411-11	CAP, ADJ 20PF				Q15	8-729-422-57	TRANSISTOR UN4111	
CT2	1-141-411-11	CAP, ADJ 20PF				Q16	8-729-012-83	TRANSISTOR 2SK679A	
		< DIODE >				Q18	8-729-922-66	TRANSISTOR 2SC2410SN	
D1	8-719-050-72	DIODE KV1370NT				Q19	8-729-106-07	TRANSISTOR 2SK514-H	
D2	8-719-050-72	DIODE KV1370NT				Q102	8-729-905-50	TRANSISTOR DTC343TS	
D3	8-719-050-69	DIODE KV1520N				Q202	8-729-905-50	TRANSISTOR DTC343TS	
D6	8-719-991-33	DIODE 1SS133T-77				Q308	8-729-801-84	TRANSISTOR 2SB1013-4	
D7	8-719-991-33	DIODE 1SS133T-77				Q309	8-729-904-36	TRANSISTOR DTC114YS	
						Q310	8-729-209-15	TRANSISTOR 2SD2012	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q311	8-729-209-15	TRANSISTOR	2SD2012	R132	1-249-410-11	CARBON	270 5% 1/4W
Q312	8-729-142-46	TRANSISTOR	2SC2001-LK	R133	1-249-387-11	CARBON	3.3 5% 1/4W
Q315	8-729-902-80	TRANSISTOR	DTA114YS	R134	1-249-417-11	CARBON	1K 5% 1/4W
Q316	8-729-119-78	TRANSISTOR	2SC2785-HFE	R135	1-249-414-11	CARBON	560 5% 1/4W
Q317	8-729-801-84	TRANSISTOR	2SB1013-4	R137	1-249-401-11	CARBON	47 5% 1/4W
Q318	8-729-904-36	TRANSISTOR	DTC114YS	R232	1-249-410-11	CARBON	270 5% 1/4W
Q701	8-729-801-84	TRANSISTOR	2SB1013-4	R233	1-249-387-11	CARBON	3.3 5% 1/4W
Q702	8-729-900-85	TRANSISTOR	DTC144WS	R234	1-249-417-11	CARBON	1K 5% 1/4W
Q703	8-729-900-74	TRANSISTOR	DTC143TS	R235	1-249-429-11	CARBON	10K 5% 1/4W
Q705	8-729-902-80	TRANSISTOR	DTA114YS	R237	1-249-401-11	CARBON	47 5% 1/4W
Q760	8-729-900-74	TRANSISTOR	DTC143TS	R316	1-249-437-11	CARBON	47K 5% 1/4W
Q770	8-729-900-74	TRANSISTOR	DTC143TS	R317	1-247-903-00	CARBON	1M 5% 1/4W
< RESISTOR >				R318	1-249-411-11	CARBON	330 5% 1/4W
R1	1-249-441-11	CARBON	100K 5% 1/4W	R319	1-249-414-11	CARBON	560 5% 1/4W
R2	1-247-887-00	CARBON	220K 5% 1/4W	R320	1-249-407-11	CARBON	150 5% 1/4W
R3	1-249-431-11	CARBON	15K 5% 1/4W	R323	1-249-441-11	CARBON	100K 5% 1/4W
R4	1-249-429-11	CARBON	10K 5% 1/4W	R324	1-249-425-11	CARBON	4.7K 5% 1/4W
R6	1-247-887-00	CARBON	220K 5% 1/4W	R327	1-249-418-11	CARBON	1.2K 5% 1/4W
R7	1-249-411-11	CARBON	330 5% 1/4W	R333	1-249-417-11	CARBON	1K 5% 1/4W
R8	1-247-863-91	CARBON	22K 5% 1/4W	R334	1-249-441-11	CARBON	100K 5% 1/4W
R9	1-249-421-11	CARBON	2.2K 5% 1/4W	R357	1-249-437-11	CARBON	47K 5% 1/4W
R10	1-249-425-11	CARBON	4.7K 5% 1/4W	R358	1-249-429-11	CARBON	10K 5% 1/4W
R11	1-247-815-91	CARBON	220 5% 1/4W	R390	1-247-895-91	CARBON	470K 5% 1/4W
R14	1-249-404-00	CARBON	82 5% 1/4W	R700	1-249-429-11	CARBON	10K 5% 1/4W
R16	1-249-417-11	CARBON	1K 5% 1/4W	R701	1-247-883-00	CARBON	150K 5% 1/4W
R17	1-249-417-11	CARBON	1K 5% 1/4W	R702	1-247-896-11	CARBON	510K 5% 1/4W
R25	1-249-429-11	CARBON	10K 5% 1/4W	R703	1-249-441-11	CARBON	100K 5% 1/4W
R26	1-249-425-11	CARBON	4.7K 5% 1/4W	R704	1-247-883-00	CARBON	150K 5% 1/4W
R27	1-249-429-11	CARBON	10K 5% 1/4W	R705	1-249-437-11	CARBON	47K 5% 1/4W
R28	1-249-429-11	CARBON	10K 5% 1/4W	R706	1-247-876-11	CARBON	75K 5% 1/4W
R29	1-249-415-11	CARBON	680 5% 1/4W	R707	1-249-432-11	CARBON	18K 5% 1/4W
R30	1-249-412-11	CARBON	390 5% 1/4W	R708	1-247-883-00	CARBON	150K 5% 1/4W
R35	1-249-421-11	CARBON	2.2K 5% 1/4W	R709	1-247-862-11	CARBON	20K 5% 1/4W
R37	1-249-429-11	CARBON	10K 5% 1/4W	R710	1-249-393-11	CARBON	10 5% 1/4W
R38	1-249-429-11	CARBON	10K 5% 1/4W	R711	1-249-417-11	CARBON	1K 5% 1/4W
R39	1-249-429-11	CARBON	10K 5% 1/4W	R712	1-249-417-11	CARBON	1K 5% 1/4W
R40	1-249-417-11	CARBON	1K 5% 1/4W	R713	1-249-417-11	CARBON	1K 5% 1/4W
R41	1-249-417-11	CARBON	1K 5% 1/4W	R714	1-247-883-00	CARBON	150K 5% 1/4W
R42	1-249-425-11	CARBON	4.7K 5% 1/4W	R715	1-249-417-11	CARBON	1K 5% 1/4W
R43	1-249-437-11	CARBON	47K 5% 1/4W	R716	1-249-431-11	CARBON	15K 5% 1/4W
R44	1-249-429-11	CARBON	10K 5% 1/4W	R717	1-249-429-11	CARBON	10K 5% 1/4W
R46	1-247-863-91	CARBON	22K 5% 1/4W	R718	1-247-899-11	CARBON	680K 5% 1/4W
R55	1-249-421-11	CARBON	2.2K 5% 1/4W	R719	1-249-417-11	CARBON	1K 5% 1/4W
R56	1-249-407-11	CARBON	150 5% 1/4W	R720	1-247-891-00	CARBON	330K 5% 1/4W
R57	1-249-399-11	CARBON	33 5% 1/4W	R722	1-249-439-11	CARBON	68K 5% 1/4W
R58	1-249-411-11	CARBON	330 5% 1/4W	R723	1-249-440-11	CARBON	82K 5% 1/4W
R59	1-249-437-11	CARBON	47K 5% 1/4W	R725	1-249-437-11	CARBON	47K 5% 1/4W
R60	1-249-425-11	CARBON	4.7K 5% 1/4W	R726	1-249-429-11	CARBON	10K 5% 1/4W
R61	1-249-437-11	CARBON	47K 5% 1/4W	R727	1-249-429-11	CARBON	10K 5% 1/4W
R66	1-249-437-11	CARBON	47K 5% 1/4W	R730	1-249-435-11	CARBON	33K 5% 1/4W
R67	1-247-807-31	CARBON	100 5% 1/4W	R731	1-247-863-91	CARBON	22K 5% 1/4W
				R732	1-249-429-11	CARBON	10K 5% 1/4W

MAIN POWER RETAINER SWITCH

Ref. No.	Part No.	Description	Remark
R733	1-249-435-11	CARBON 33K	5% 1/4W
R734	1-249-437-11	CARBON 47K	5% 1/4W
R735	1-249-421-11	CARBON 2.2K	5% 1/4W
R740	1-247-843-11	CARBON 3.3K	5% 1/4W
R741	1-249-417-11	CARBON 1K	5% 1/4W
R742	1-249-429-11	CARBON 10K	5% 1/4W
R743	1-247-903-00	CARBON 1M	5% 1/4W
R744	1-247-887-00	CARBON 220K	5% 1/4W
R745	1-249-429-11	CARBON 10K	5% 1/4W
R746	1-249-437-11	CARBON 47K	5% 1/4W
R747	1-249-417-11	CARBON 1K	5% 1/4W
R748	1-249-429-11	CARBON 10K	5% 1/4W
R749	1-249-429-11	CARBON 10K	5% 1/4W
R750	1-249-413-11	CARBON 470	5% 1/4W
R751	1-249-429-11	CARBON 10K	5% 1/4W
R753	1-249-429-11	CARBON 10K	5% 1/4W
R755	1-249-429-11	CARBON 10K	5% 1/4W
R756	1-249-440-11	CARBON 82K	5% 1/4W
R757	1-249-439-11	CARBON 68K	5% 1/4W
R758	1-249-439-11	CARBON 68K	5% 1/4W
R759	1-249-439-11	CARBON 68K	5% 1/4W
R766	1-249-417-11	CARBON 1K	5% 1/4W
R776	1-249-417-11	CARBON 1K	5% 1/4W
R777	1-249-429-11	CARBON 10K	5% 1/4W
R791	1-247-862-11	CARBON 20K	5% 1/4W
R792	1-249-429-11	CARBON 10K	5% 1/4W
△ RF301	1-211-757-11	FUSIBLE 1	5% 1/2W F
△ RF302	1-211-757-11	FUSIBLE 1	5% 1/2W F
< VARIABLE RESISTOR >			
RV701	1-241-765-11	RES, ADJ. CARBON 22K (FOCUS BIAS)	
RV702	1-241-765-11	RES, ADJ. CARBON 22K (FOCUS GAIN)	
RV703	1-241-762-11	RES, ADJ. CERMET 2.2K (E-F BALANCE)	
RV704	1-241-765-11	RES, ADJ. CARBON 22K (TRACKING GAIN)	
< VIBRATOR >			
X1	1-760-130-11	VIBRATOR, CRYSTAL (75KHz)	
X701	1-579-345-11	VIBRATOR, CERAMIC (16.9344MHz)	

*	1-662-024-11	POWER BOARD	*****
	1-533-233-21	HOLDER, FUSE	
< CAPACITOR >			
C901	1-101-005-00	CERAMIC 0.022uF	50V
C902	1-101-005-00	CERAMIC 0.022uF	50V
C903	1-101-005-00	CERAMIC 0.022uF	50V
C904	1-101-005-00	CERAMIC 0.022uF	50V
< CONNECTOR >			
* CN901	1-564-519-11	PLUG, CONNECTOR 4P	

Ref. No.	Part No.	Description	Remark
* CN902	1-564-518-11	PLUG, CONNECTOR 3P	
< DIODE >			
D901	8-719-046-07	DIODE 2A02M	
D902	8-719-046-07	DIODE 2A02M	
D903	8-719-046-07	DIODE 2A02M	
D904	8-719-046-07	DIODE 2A02M	
D905	8-719-991-33	DIODE 1SS133T-77	
D906	8-719-991-33	DIODE 1SS133T-77	
< FUSE >			
△ F902	1-532-505-31	FUSE, TIME LAG(5A/250V)	
< IC >			
IC901	8-759-095-60	IC S-81250PG	
< JACK >			
△ J901	1-526-838-11	INLET, AC 2P (~AC IN)	
< RESISTOR >			
R901	1-247-895-91	CARBON 470K	5% 1/4W
R902	1-247-887-00	CARBON 220K	5% 1/4W
< TRANSFORMER >			
△ T901	1-429-758-11	TRANSFORMER, POWER	

*	1-663-473-11	RETAINER BOARD	*****

*	1-662-021-11	SWITCH BOARD	*****
< CAPACITOR >			
C819	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
< CONNECTOR >			
CN804	1-568-847-11	CONNECTOR, FFC/FPC 4P	
< DIODE >			
D808	8-719-061-52	LED L-974HD-TNR5/3.9 (OPR/BATT)	
< COIL >			
L807	1-410-393-11	INDUCTOR CHIP 100uH	
< RESISTOR >			
R845	1-216-035-00	METAL CHIP 270	5% 1/10W

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
R850	1-216-045-00	METAL CHIP	680 5% 1/10W
R851	1-216-047-91	METAL GLAZE	820 5% 1/10W
R852	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R853	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
R854	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R855	1-216-045-00	METAL CHIP	680 5% 1/10W
R856	1-216-047-91	METAL GLAZE	820 5% 1/10W
R857	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R858	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
R859	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R866	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
< SWITCH >			
S807	1-572-199-11	SWITCH, KEY BOARD (CLOCK/TIMER)	
S808	1-572-199-11	SWITCH, KEY BOARD (STANDBY)	
S809	1-572-199-11	SWITCH, KEY BOARD (RADIO BAND)	
S810	1-572-199-11	SWITCH, KEY BOARD (PRESET -)	
S811	1-572-199-11	SWITCH, KEY BOARD (PRESET +)	
S812	1-572-199-11	SWITCH, KEY BOARD (MODE)	
S813	1-572-199-11	SWITCH, KEY BOARD (■)	
S814	1-572-199-11	SWITCH, KEY BOARD (▶▶ICD)	
S815	1-572-199-11	SWITCH, KEY BOARD (▶▶TUNING/TIME SET)	
S816	1-572-199-11	SWITCH, KEY BOARD (◀◀TUNING/TIME SET)	
S817	1-572-199-11	SWITCH, KEY BOARD (DISPLAY/ENTER)	

*	A-3306-065-A	TC BOARD, COMPLETE	*****
< CAPACITOR >			
C101	1-162-292-31	CERAMIC	680PF 10% 50V
C102	1-126-967-11	ELECT	47uF 20% 16V
C103	1-161-020-11	CERAMIC	0.039uF 10% 25V
C104	1-162-301-11	CERAMIC	0.0015uF 30% 16V
C106	1-124-902-00	ELECT	0.47uF 20% 50V
C108	1-126-963-11	ELECT	4.7uF 20% 50V
C109	1-126-964-11	ELECT	10uF 20% 50V
C110	1-124-903-11	ELECT	1uF 20% 50V
C111	1-161-060-00	CERAMIC	0.056uF 10% 25V
C112	1-161-060-00	CERAMIC	0.056uF 10% 25V
C113	1-162-837-11	CERAMIC	0.0068uF 10% 16V
C114	1-126-964-11	ELECT	10uF 20% 50V
C115	1-162-852-11	CERAMIC	0.15uF 10% 18V
C116	1-126-933-11	ELECT	100uF 20% 10V
C201	1-162-292-31	CERAMIC	680PF 10% 50V
C202	1-126-967-11	ELECT	47uF 20% 16V
C203	1-161-020-11	CERAMIC	0.039uF 10% 25V
C204	1-162-301-11	CERAMIC	0.0015uF 30% 16V
C206	1-124-902-00	ELECT	0.47uF 20% 50V
C208	1-126-963-11	ELECT	4.7uF 20% 50V
C209	1-126-964-11	ELECT	10uF 20% 50V
C210	1-124-903-11	ELECT	1uF 20% 50V

Ref. No.	Part No.	Description	Remark
C211	1-161-060-00	CERAMIC	0.056uF 10% 25V
C212	1-161-060-00	CERAMIC	0.056uF 10% 25V
C213	1-162-837-11	CERAMIC	0.0068uF 10% 16V
C214	1-126-964-11	ELECT	10uF 20% 50V
C215	1-162-852-11	CERAMIC	0.15uF 10% 18V
C216	1-126-933-11	ELECT	100uF 20% 10V
C301	1-130-472-00	MYLAR	0.0012uF 5% 50V
C302	1-130-467-00	MYLAR	470PF 5% 50V
C303	1-130-478-00	MYLAR	0.0039uF 5% 50V
C304	1-126-967-11	ELECT	47uF 20% 16V
C305	1-130-473-00	MYLAR	0.0015uF 5% 50V
C307	1-126-967-11	ELECT	47uF 20% 16V
C308	1-126-923-11	ELECT	220uF 20% 10V
C309	1-104-664-11	ELECT	47uF 20% 25V
C310	1-161-020-11	CERAMIC	0.039uF 10% 25V
C311	1-126-964-11	ELECT	10uF 20% 50V
C312	1-126-933-11	ELECT	100uF 20% 10V
C313	1-126-964-11	ELECT	10uF 20% 50V
C343	1-126-923-11	ELECT	220uF 20% 10V
C350	1-162-294-31	CERAMIC	0.001uF 10% 50V
C351	1-126-933-11	ELECT	100uF 20% 10V
C353	1-161-055-00	CERAMIC	0.022uF 10% 50V
C355	1-126-966-11	ELECT	33uF 20% 16V
C357	1-126-933-11	ELECT	100uF 20% 10V
C358	1-128-551-11	ELECT	22uF 20% 25V
C359	1-128-551-11	ELECT	22uF 20% 25V
C360	1-136-165-00	FILM	0.1uF 5% 50V
C362	1-126-963-11	ELECT	4.7uF 20% 50V
C363	1-162-851-11	CERAMIC	0.1uF 10% 16V
C364	1-126-967-11	ELECT	47uF 20% 50V
C367	1-162-294-31	CERAMIC	0.001uF 10% 50V
C368	1-162-294-31	CERAMIC	0.001uF 10% 50V
< CONNECTOR >			
* CN301	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P	
CN304	1-691-044-11	HOUSING, CONNECTOR 12P	
CN305	1-691-047-21	HOUSING, CONNECTOR 15P	
< DIODE >			
D301	8-719-991-33	DIODE 1SS133T-77	
D302	8-719-991-33	DIODE 1SS133T-77	
D303	8-719-991-33	DIODE 1SS133T-77	
D316	8-719-991-33	DIODE 1SS133T-77	
D317	8-719-991-33	DIODE 1SS133T-77	
< IC >			
IC301	8-759-264-71	IC TA2068N	
IC302	8-759-432-41	IC BH3854AS	
< COIL >			
L301	1-414-142-11	INDUCTOR	1uH
L302	1-414-142-11	INDUCTOR	1uH

TC

Ref. No.	Part No.	Description	Remark
L303	1-414-142-11	INDUCTOR 1uH	
L304	1-414-142-11	INDUCTOR 1uH	
L305	1-410-509-11	INDUCTOR 10uH	
L306	1-410-509-11	INDUCTOR 10uH	
< TRANSISTOR >			
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q301	8-729-900-74	TRANSISTOR DTC143TS	
Q302	8-729-900-74	TRANSISTOR DTC143TS	
Q303	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q306	8-729-902-80	TRANSISTOR DTA114YS	
Q307	8-729-902-80	TRANSISTOR DTA114YS	
Q319	8-729-801-84	TRANSISTOR 2SB1013-4	
Q320	8-729-904-36	TRANSISTOR DTC114YS	
Q321	8-729-904-36	TRANSISTOR DTC114YS	
Q322	8-729-904-36	TRANSISTOR DTC114YS	
< RESISTOR >			
R101	1-247-860-11	CARBON 16K 5% 1/4W	
R102	1-249-403-11	CARBON 68 5% 1/4W	
R103	1-249-440-11	CARBON 82K 5% 1/4W	
R104	1-247-843-11	CARBON 3.3K 5% 1/4W	
R105	1-249-417-11	CARBON 1K 5% 1/4W	
R108	1-249-429-11	CARBON 10K 5% 1/4W	
R112	1-249-417-11	CARBON 1K 5% 1/4W	
R113	1-249-417-11	CARBON 1K 5% 1/4W	
R114	1-249-428-11	CARBON 8.2K 5% 1/4W	
R115	1-249-421-11	CARBON 2.2K 5% 1/4W	
R116	1-249-441-11	CARBON 100K 5% 1/4W	
R118	1-247-843-11	CARBON 3.3K 5% 1/4W	
R131	1-249-417-11	CARBON 1K 5% 1/4W	
R201	1-247-860-11	CARBON 16K 5% 1/4W	
R202	1-249-403-11	CARBON 68 5% 1/4W	
R203	1-249-440-11	CARBON 82K 5% 1/4W	
R204	1-247-843-11	CARBON 3.3K 5% 1/4W	
R205	1-249-417-11	CARBON 1K 5% 1/4W	
R208	1-249-429-11	CARBON 10K 5% 1/4W	
R212	1-249-417-11	CARBON 1K 5% 1/4W	
R213	1-249-417-11	CARBON 1K 5% 1/4W	
R214	1-249-428-11	CARBON 8.2K 5% 1/4W	
R215	1-249-421-11	CARBON 2.2K 5% 1/4W	
R216	1-249-441-11	CARBON 100K 5% 1/4W	
R218	1-247-843-11	CARBON 3.3K 5% 1/4W	
R231	1-249-417-11	CARBON 1K 5% 1/4W	
R301	1-249-393-11	CARBON 10 5% 1/4W	
R302	1-249-435-11	CARBON 33K 5% 1/4W	
R303	1-249-389-11	CARBON 4.7 5% 1/4W	
R307	1-247-791-91	CARBON 22 5% 1/4W	
R308	1-247-903-00	CARBON 1M 5% 1/4W	
R309	1-249-429-11	CARBON 10K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R310	1-247-843-11	CARBON 3.3K 5% 1/4W	
R338	1-249-429-11	CARBON 10K 5% 1/4W	
R339	1-247-903-00	CARBON 1M 5% 1/4W	
R340	1-249-429-11	CARBON 10K 5% 1/4W	
R343	1-247-807-31	CARBON 100 5% 1/4W	
R346	1-249-441-11	CARBON 100K 5% 1/4W	
R347	1-249-441-11	CARBON 100K 5% 1/4W	
R348	1-249-429-11	CARBON 10K 5% 1/4W	
R349	1-249-425-11	CARBON 4.7K 5% 1/4W	
R350	1-249-421-11	CARBON 2.2K 5% 1/4W	
R351	1-249-417-11	CARBON 1K 5% 1/4W	
R352	1-249-430-11	CARBON 12K 5% 1/4W	
R353	1-249-441-11	CARBON 100K 5% 1/4W	
R354	1-247-903-00	CARBON 1M 5% 1/4W	
R355	1-247-903-00	CARBON 1M 5% 1/4W	
R356	1-247-903-00	CARBON 1M 5% 1/4W	
R359	1-249-429-11	CARBON 10K 5% 1/4W	
R360	1-247-887-00	CARBON 220K 5% 1/4W	
R361	1-247-895-91	CARBON 470K 5% 1/4W	
< SWITCH >			
S302	1-571-043-11	SWITCH, PUSH (1 KEY) (PLAY/REC)	
< TRANSFORMER >			
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR	

MISCELLANEOUS			

12	1-533-233-21	HOLDER, FUSE	
62	1-777-329-11	WIRE (FLAT TYPE) (FFC) (15 CORE)	
65	1-777-331-11	WIRE (FLAT TYPE) (FFC) (4 CORE)	
66	1-777-328-11	WIRE (FLAT TYPE) (FFC) (12 CORE)	
74	1-777-330-11	WIRE (FLAT TYPE) (FFC) (19 CORE)	
103	1-452-732-11	MAGNET	
110	1-777-332-11	WIRE (FLAT TYPE) (FFC) (16 CORE)	
△ 305	8-848-376-01	OPTICAL PICK-UP KSS-213B/S-N	
306	X-2625-770-1	CHASSIS ASSY (MB) (RP), MOTOR (INCLUDING M702) (SPINDLE)	
ANT1	1-501-861-11	ANTENNA, TELESCOPIC	
△ F902	1-532-505-31	FUSE, TIME LAG (5A/250V)	
HE601	1-500-334-11	HEAD, E (TC-238) (ERASE)	
HRP601	1-500-333-11	HEAD, R-P (MS15R-AA2N1) (RECORD/PLAYBACK)	
LCD801	1-801-457-11	LIQUID CRYSTAL DISPLAY	
M601	1-698-727-11	MOTOR (EG-530AD-9B) (REEL/CAPSTAN)	
M701	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	
S601	1-762-658-11	SWITCH, LEAF (MSW-1541T) (MD POWRE)	
S602	1-762-819-11	SWITCH, LEAF (TAPE PLAY)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (DOOR OPEN)	
SP101	1-505-434-11	SPEAKER (10cm) (L-CH)	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
	SP201	1-505-434-11	SPEAKER (10cm) (R-CH)
	△ T901	1-429-758-11	TRANSFORMER, POWER

ACCESSORIES & PACKING MATERIALS

△	1-751-214-11	CORD, POWER (UK)	
△	1-769-412-11	CORD, POWER (AEP,G,IT)	
*	3-007-163-01	INDIVIDUAL CARTON (CFD-360)	
*	3-007-167-01	INDIVIDUAL CARTON (CFD-370)	
	3-858-521-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN) (CFD-360:AEP,UK,G)	
	3-858-521-21	MANUAL, INSTRUCTION (FRENCH,SPANISH) (CFD-360:AEP)	
	3-858-521-31	MANUAL, INSTRUCTION (DUTCH,SWEDISH, PORTUGUESE) (CFD-360:AEP)	
	3-858-521-41	MANUAL, INSTRUCTION (ITALIAN) (CFD-360:IT)	
	3-858-522-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN) (CFD-370:AEP,UK,G)	
	3-858-522-21	MANUAL, INSTRUCTION (FRENCH,SPANISH) (CFD-370:AEP)	
	3-858-522-31	MANUAL, INSTRUCTION (DUTCH,SWEDISH, PORTUGUESE)(CFD-370:AEP)	
	3-858-522-41	MANUAL, INSTRUCTION (ITALIAN) (CFD-370:IT)	
	4-973-399-01	COVER, BATTERY (FOR RMT-C370A) (CFD-370)	
	8-917-578-90	REMOTE COMMANDER, RMT-C370A (CFD-370)	

HARDWARE LIST

#1	7-685-648-79	SCREW, TAPPING +BV 3X12
#2	7-682-549-04	SCREW +BVTT 3X10 (S)
#3	7-685-780-01	SCREW +PTT 2X3 (S)
#4	7-685-651-79	SCREW +BVTP 3X20 TYPE2
#5	7-621-773-95	SCREW +PTT 2.6X6 (S)
#6	7-621-255-25	SCREW +BVTT 2X4 (S)
#7	7-685-646-79	SCREW, TAPPING +BV 3X8
#8	7-621-255-15	SCREW +P 2X3

The components identified by mark △
or dotted line with mark △ are critical
for safety.
Replace only with part number specified.

CFD-360/370

SONY

*AEP Model
UK Model*

SERVICE MANUAL

CORRECTION - 1

Correct your Service Manual as shown below.

Subject :

- EXPLODED VIEWS PARTS LIST

(SPM-99003)

- EXPLODED VIEWS PARTS LIST (Service Manual See page 34)

Ref. No.	INCORRECT			CORRECT		
	Part No.	Description	remark	Part No.	Description	remark
51	3-938-833-01	HOLDER, CASSETTE		X-3372-646-1 X-3372-662-1	LID ASSY, CASSETTE (CFD-360) LID ASSY, CASSETTE (CFD-370)	
70	X-3372-646-1	LID ASSY, CASSETTE (CFD-360)		3-938-833-01	HOLDER, CASSETTE	
70	X-3372-662-1	LID ASSY, CASSETTE (CFD-370)				