

CFD-770L

SERVICE MANUAL

AEP Model
UK Model



MEGA BASS

Model Name Using Similar Mechanism	CD Section Tape Section	CFD-750L/760L NEW
Optical Device Name	KSM-210BAN	
Tape Transport Mechanism Type	DECK A: MF-770PB-65 DECK B: MF-770RP-65	

SPECIFICATIONS

CD player section

System	Compact disc digital audio system
Laser diode properties	Material: GaAlAs Wavelength 780 nm Emission duration: Continuous Laser output: Less than 44.6 μ W* *This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block.
Spindle speed	200 r.p.m. to 500 r.p.m. (CLV)
Error correction	Sony Super Strategy Cross Interleave Read Solomon Code
Number of channels	2
Frequency response	20 - 20,000 Hz $\pm 1/3$ dB
Wow and flutter	Below measurable limit

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol $\square\square$ are trademarks of Dolby Laboratories Licensing Corporation.

Radio section

Frequency range

	FM	MW	LW
AEP, UK Model	87.6-107 MHz	531-1602 kHz	153-279 kHz
Italian Model	87.5-108 MHz	(9 kHz STEP)	
IF	10.7 MHz	MW/LW 450 kHz	

Antennas FM: Telescopic antenna, External antenna
MW/LW: Built-in ferrite bar antenna

Tape recorder section and general

Recording system 4-track 2-channel stereo
Fast winding time Approx. 140 sec. with Sony cassette C-60
Frequency response • TYPE I (NORMAL) cassette: 60 - 13,000 Hz

• TYPE II (CrO₂) cassette: 60 - 16,000 Hz
Speaker Two-way speakers: Woofer: 10 cm dia, cone type, Tweeter: 5 cm

Power output Two-way speakers: 10 W + 10 W (at 4 ohms, 315 Hz, 10% harmonic distortion)

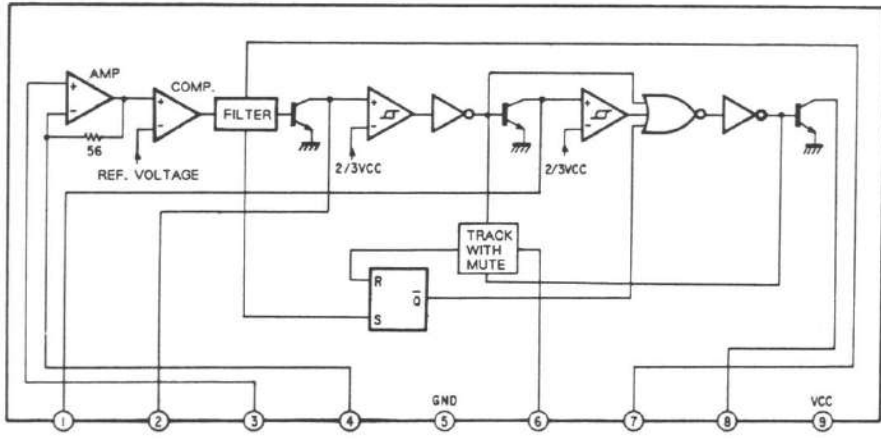
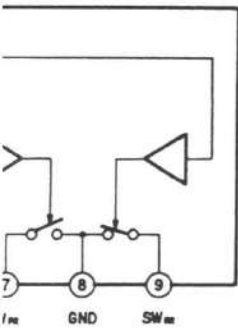
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CD RADIO CASSETTE-CORDER

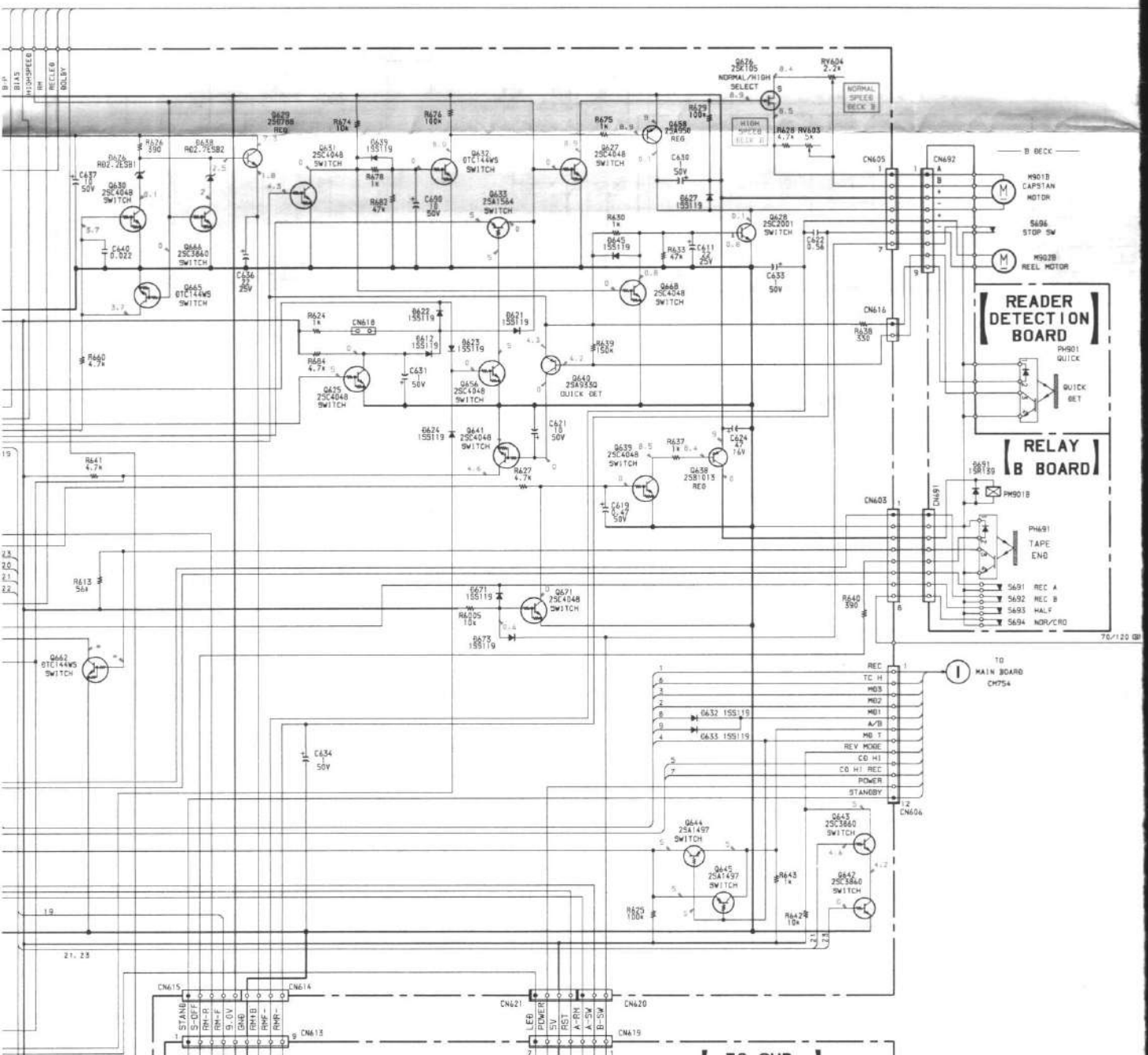
SONY®



IC602 BA3707



16 17 18 19 20 21 22 23 24 25 26 27



Inputs Mixing microphone input jack (minijack)
Sensitivity 2.5 mV
For low impedance microphone

Outputs Headphones jack (stereo minijack)
For 16–68 ohms impedance headphones
Two CD output jacks (phono jack)
Load impedance 10 kilohms or higher
Rated output 0.98 V rms at load impedance
47 kilohms

Maximum power output 10W + 10W

Power requirements DC 12 V, 8 R20 (size D) batteries for CD radio cassette-corder
DC 6 V, 4 R6 (size AA) batteries for clock/timer/memory

AEP, Italian model	220 V AC, 50 Hz
UK model	240 V AC, 50 Hz

Power consumption

AEP, Italian model	45 W
UK model	80 W

Battery life Batteries for radio cassette-corder

	Recording	Playback	CD playing
Sony SUM-1 (NS)	approx. 2 H	approx. 0.5 H	approx. 0.5 H
Sony Alkaline AM1 (N)	approx. 5.5 H	approx. 1.5 H	approx. 1 H

For clock/timer/memory: Approx. 1 year

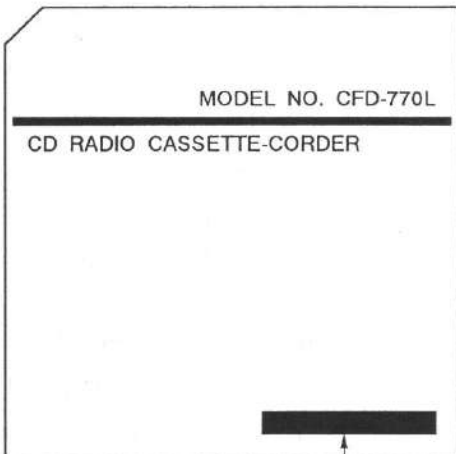
Dimensions 686 × 250 × 234 mm (w/h/d)
(27¹/₈ × 9⁷/₈ × 9¹/₄ inches)
incl. projecting parts and controls

Weight Approx. 11 kg incl. batteries
(Approx. 24 lb 4 oz)

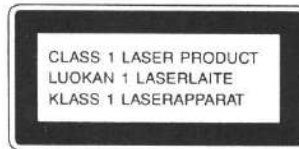
Supplied accessories AC power cord (1)
Remote commander (1)

Design and specifications subject to change without notice.

Model Identification



3-362-604-01: UK model
3-362-605-01: Italian model
3-363-102-01: AEP model



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

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK 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.

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
	Specifications	1	6.	DIAGRAMS	
	Model Identification	2	6-1.	Main Block Printed Wiring Boards	33
1.	SERVICING NOTES	3	6-2.	Main Block Schematic Diagram	35
2.	GENERAL		6-3.	TC Block Schematic Diagram	40
	Parts Identification	5	6-4.	TC Block Printed Wiring Boards	45
	Setting the Clock	7	6-5.	CD Control Printed Wiring Boards	47
	Playing Discs	8	6-6.	CD Control Schematic Diagram	49
	Various Disc Playing Modes	9	6-7.	Power Block Schematic Diagram	53
	Using the Built-in Timer	10	6-8.	Power Block Printed Wiring Boards	57
3.	MECHANISM OPERATION	12	7.	EXPLODED VIEWS	59
4.	DISASSEMBLY	16	8.	ELECTRICAL PARTS LIST	66
5.	ADJUSTMENTS				
5-1.	Mechanical Adjustment	20			
5-2.	Electrical Adjustment	21			
	Tape Recorder Section	21			
	Tuner Section	24			
	CD Section	26			

SECTION 1

SERVICING NOTES

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.

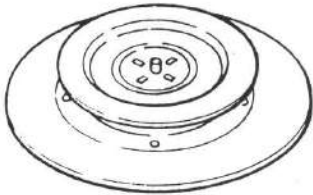
NOTES ON LASER DIODE EMISSION CHECK

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 25 cm away from the objective lens.

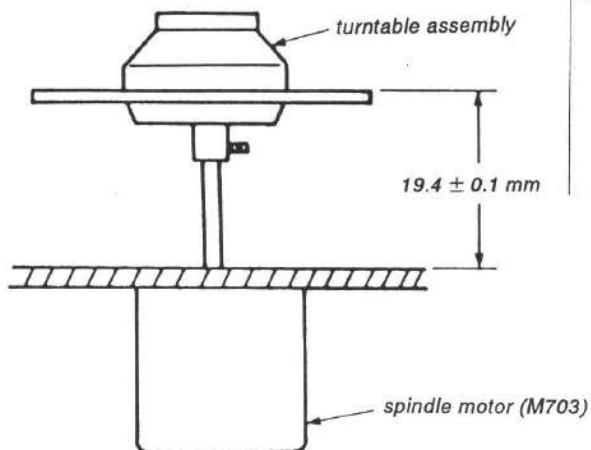
CHUCK PLATE JIG ON REPAIRING

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

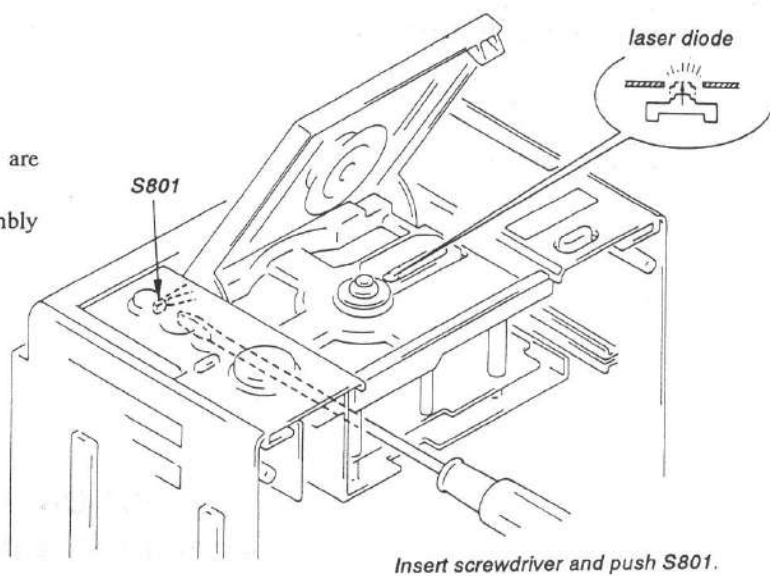
- Code number of Chuck Plate Jig: X-4918-255-1

**NOTE ON REPAIRING**

The spindle motor (M703) and the turntable assembly are individually supplied as repair parts. When repairing M703, please order the turntable assembly together. Dimension is as follows.

**LASER DIODE AND FOCUS SEARCH OPERATION CHECK**

1. Make Function switch to CD position with no disc inserted.
2. Open the lid for CD.
3. Turn on S801 as following figure.
4. Press ► key.
5. 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 serarch.



This section is extracted from instruction manual.

SECTION 2
GENERAL

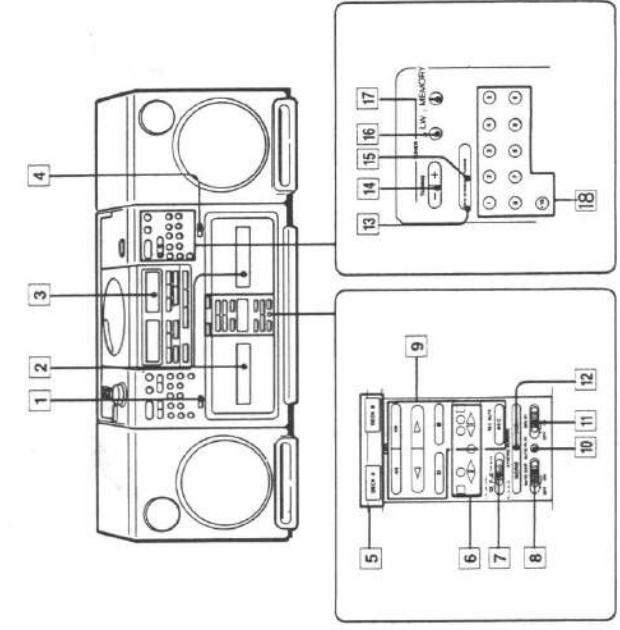
Parts Identification

Radio and Cassette-corder Section

Parts Identification

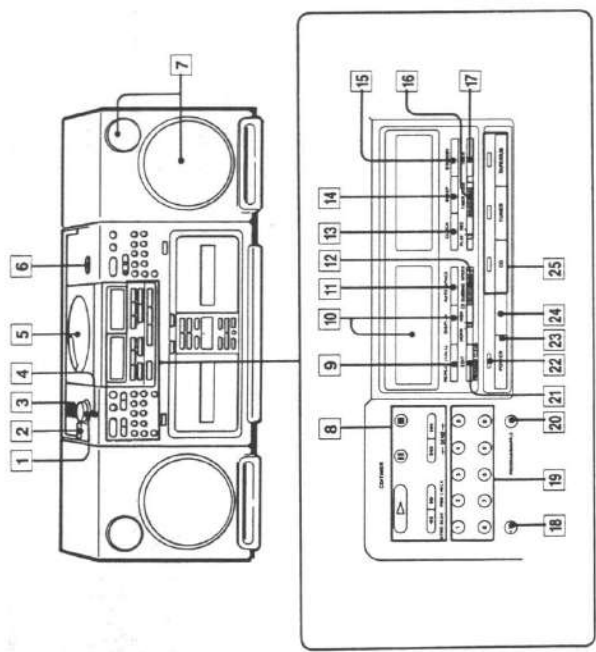
Refer to the pages indicated in ● for details.

CD Player, Clock, Timer and Sound Adjustment Section



- 10 AUTO PLAY button
- 11 DOLBY NR (B type Noise Reduction) switch
- 12 SYNCHRO (synchronized) DUBBING buttons
- 13 FM STEREO indicator
- 14 TUNING buttons
- 15 TUNING indicator
- 16 Band selector
- 17 MEMORY button
- 18 Number buttons for preset station

- 1 eject button for deck A
- 2 Cassette holders
- 3 TUNER OPERATION DISPLAY
- 4 eject button for deck B
- 5 Deck selection buttons
- 6 Tape transport direction indicators
- 7 DIR (tape transport direction) MODE selector
- 8 AUTO SKIP switch
- 9 Tape operation buttons
- 10 ← (leftward fast winding)
- 11 → (rightward fast winding)
- 12 ▷ (play for reverse side)
- 13 ▢ (play for front side)
- 14 || (pause)
- 15 ■ (stop)
- 16 REC (record)/REC (record) MUJTE

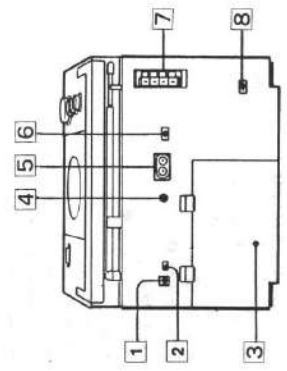


- 13 CLOCK button ●
- 14 SLEEP button ●
- 15 STANDBY button ●
- 16 TIMER MODE selector ●
- 17 TIMER button ●
- 18 + 10 (second digit) button ●
- 19 Number buttons for direct selection/clock/timer ●
- 20 PROGRAM/SHUFFLE button ●
- 21 EDIT/PROGRAM CLEAR button ●
- 22 OPR/BATT (operation/battery)/STANDBY indicator
- 23 POWER button
- 24 Remote sensor
- 25 Function selector section
- CD button and lamp
- TUNER button and lamp
- TAPE/DUB button and lamp

- 1 VOLUME control
- 2 SPACE SOUND button
- 3 ROTARY EQUALIZER controls
- 4 PHONES (headphones) jack (stereo minijack)
- When the headphones are connected to the jack, the sound from the speakers does not come out.
- 5 Disc holder ●
- 6 CD OPEN button ●
- 7 2-way speaker
- 8 CD operation buttons ●
- 11 (pause)
- 12 (play)
- 13 (manual search)/INTRO SCAN
- 14 (manual search)/PGM (program) CHECK ●
- 15 (selection search)/SEND (digit sending) ●
- 9 REPEAT (I/ALL) (repeat play) selector
- 10 DISPLAY button and CD/TIMER OPERATION DISPLAY ●
- Indicates clock, playing mode and time of the CD and timer setting.
- 11 AUTO SPACE button
- 12 CD DUBBING SPEED selector

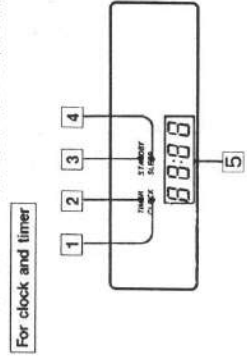
Parts Identification

Rear Panel



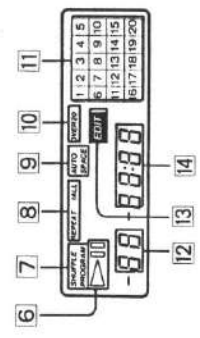
- 1 EXT ANT (external antenna) (PAL) terminal (for the CFD-770L available in European countries except for W. Germany, Italy and the United Kingdom)
- 2 LOCAL/DX Selector
- 3 Battery compartment
- 4 MIX MIC (mixing microphone) jack (mini/jack)
- 5 CD OUT (compact disc output) jacks (phono jacks)
- 6 ISS (interference suppress)/FM MODE switch
- 7 SPEAKER OUT (output) terminals
- 8 AC IN (AC power input) socket

Display Section



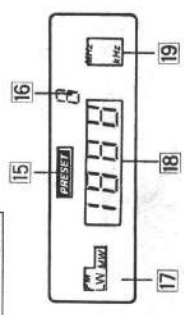
- 1 CLOCK indication
- 2 TIMER indication
- 3 STANDBY indication
- 4 SLEEP indication
- 5 Current/preset time

For CD playing



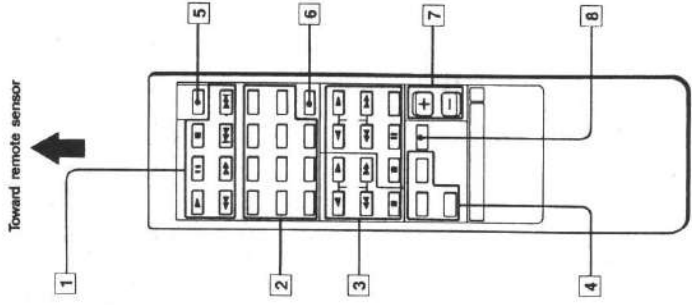
- 6 Play/pause indication
- 7 Playing mode indication
- 8 REPEAT mode indication
- 9 AUTO SPACE indication
- 10 OVER 20 indication
- 11 Music calendar
- 12 Selection number/number of selection
- 13 EDIT indication
- 14 Playing time/remaining time

For radio reception



- 15 PRESET indication
- 16 Preset number
- 17 FM/MW/LW indication
- 18 Frequency response
- 19 MHz/KHz indication

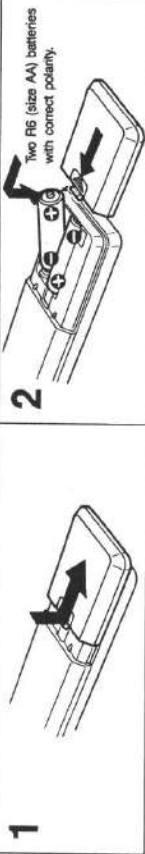
Remote Commander



- 1 CD operation buttons
 - (stop)
 - (pause)
 - ▶ (play)
 - ◀◀ (manual search)/INTRO SCAN
 - ▶▶ (manual search)/PCM (program) CHECK
 - ◀▶/▶▶ (selection search)
- 2 Number buttons for CD direct selection/radio preset station
- 3 Tape operation buttons
 - ◀◀ (leftward fast winding)
 - ▶▶ (rightward fast winding)
 - ◀ (play for reverse side)
 - ▶ (play for front side)
 - (stop)
 - (record/record mute)
- 4 Function selector section
 - TAPE button
 - CD button
 - RADIO button
 - POWER button
- 5 REPEAT play selector
- 6 VOL. (volume) control
- 7 BAND selector
- 8 BAND selector

The unit cannot be turned on by the remote commander when the unit is operated on the internal batteries.

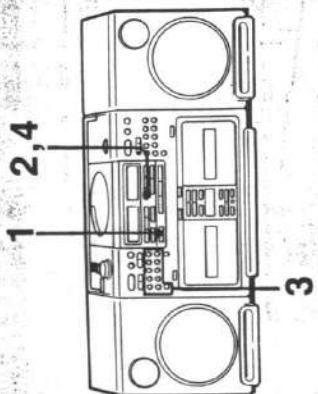
Battery Installation



- Notes on the remote commander**
- Keep the commander away from extremely hot or humid places.
 - To avoid malfunction, do not simultaneously depress two or more buttons.
 - When the battery is exhausted, the commander will not operate the CFD-770L. In this case, replace the batteries with new ones. In normal operation, battery life is up to half a year.

Setting the Clock

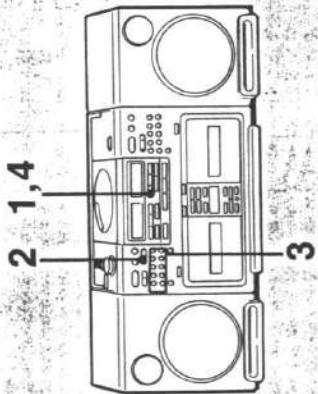
R6 (Size AA) batteries for the clock/timer/memory should be inserted in the battery compartment.



<p>1 Be sure the function lamps does not light.</p>	<p>2 Press for about 4 seconds until CLOCK appears in the display window.</p>	<p>3 Press the number buttons to enter the hour and then the minutes. If the hour and/or minute has one digit, be sure to press 0 before the number.</p> <p>Example: To set to 8:45</p>	<p>4 Press again.</p> <p>The clock starts.</p>
<p>CLOCK</p> <p>12:00</p>	<p>CLOCK</p> <p>- 2:00</p>	<p>CLOCK</p> <p>0 - : 0 0 → 0 8 - 0 → 0 8 : 4 - → 0 8 : 4 5</p> <p>"-" shows the position where the next number will be entered.</p>	<p>CLOCK</p> <p>8:45</p>

To change One Digit

Example: To change 101 to 100.



<p>1 Press for about 4 seconds until CLOCK appears in the display window.</p>	<p>2 Press three times until "-" comes to the last digit.</p> <p>"-" shows the position where the next number will be entered.</p> <p>"-" moves to the left by pressing H4.</p>	<p>3 Press the number button.</p>	<p>4 Press again.</p> <p>The clock starts.</p>
<p>CLOCK</p> <p>- 101</p>	<p>CLOCK</p> <p>0 - : 0 1 → 0 1 - 1 → 0 1 0 -</p>	<p>CLOCK</p> <p>0 1:00</p>	<p>CLOCK</p> <p>1:00</p>

Clock system

24-hour system

0:00 = midnight
12:00 = noon

To set the clock exactly to the second

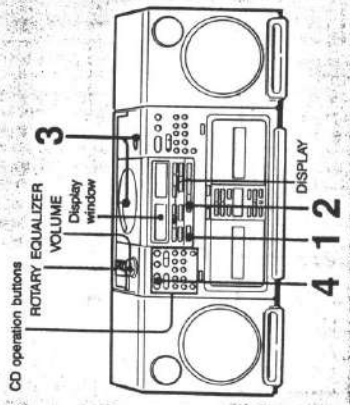
Use the radio or telephone time signal. Set the time indication to a few minutes in anticipation of a setting time. Then, press the CLOCK button simultaneously with the radio or telephone time signal.

To check the current time
The display window shows the current time except when the CD is playing. To check the time while the function is set to the CD playing mode, press the CLOCK button.

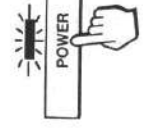
Playing Discs

You can play an 8 cm (3-inch) CD without using an adaptor for it.

Make sure the STANDBY indication does not appear in the display window.

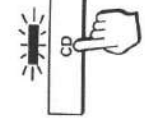


1 Press.



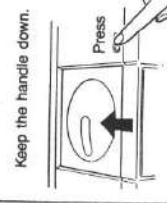
The OPR/BATT/STANDBY indicator lights up when you use the unit with batteries. (The OPR/BATT/STANDBY indicator always lights when the AC power cord is connected to the unit.)

2 Press.



The CD lamp lights up.

3



Keep the handle down.

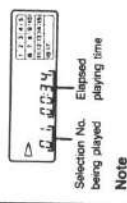


With the labeled surface facing up.

4 Press.



Play starts from the beginning of the disc.

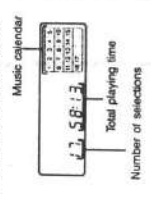


Selection No. Elapsed playing time

Note

Do not open the disc holder while playing the disc.

The disc starts to rotate and the indication appears as follows.



Music extender

Total playing time

Number of selections

The indication will return to 00 after about 4 seconds.

To adjust the volume and tone

Use the VOLUME and ROTARY EQUALIZER controls.

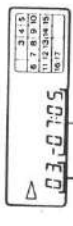
CD operation buttons

If you want to play	Press
stop play	▲
pause for a moment	
resume play after pause	
remove a disc	▶ Press the OPEN button.

After use, press POWER again.

To Display Remaining Time

The selection being played Press DISPLAY once.



Remaining time of the selection

Selection No. being played

The disc being played Press DISPLAY twice.



Total remaining time of disc

Remaining number of selections

For normal display, press DISPLAY again.

Note

During shuffle or repeat playing, the remaining time of the disc being played cannot be displayed.

Information Display

While CD player is set in pause




Pause indicator appears

Between selections

The remaining time for the next selection is displayed.



Notes

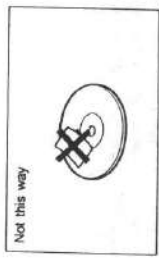
- If the disc is played near a TV or radio, noise may occur on the TV or radio.
 - If there is no disc in the disc holder, the following indication appears in the display window.
- 
- If the no disc indication appears when the disc holder is closed with a disc inside or when the CD button is pressed, press a button other than the CD button first and then press the CD button. Make sure the total selection number in the display window is correct, and then start over, using the steps above.
 - Up to 20 selections are displayed in the music calendar.
 - If the disc has more than 21 selections, OVER 20 appears in the display window.

- The remaining time of the selection from the 21st selection appears as "----:--". Elapsed playing time is displayed during playing.

Notes on Compact Disc



Handle the disc by its edge, and to keep the disc clean, do not touch the surface.



Do not stick paper or tape or write anything on the surface.



Before playing, clean the disc with the optional CD cleaner. Wipe the disc from the center out.

Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for analog discs.

After playing, store the disc in its case.

Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight where there can be a considerable rise in the temperature.

Various Disc Playing Modes

Each time you press the PROGRAM/SHUFFLE button, the playing mode changes in sequence as indicated in the display window: SHUFFLE → PROGRAM EDIT → normal play.

To Play Selections in Random Order—Shuffle Play

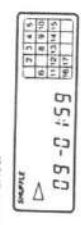
1 Press until SHUFFLE indication appears.

2 Press.

The selection number will disappear from the music calendar when the selection is finished.

To stop shuffle play
Press ■

To release shuffle play
Press PROGRAM/SHUFFLE until the SHUFFLE or PROGRAM EDIT indication disappears from the display window.



The remaining time of the selection being played

To return to the normal display, press DISPLAY again. From the 21st selection, the remaining time will be displayed as "-----".

Note
During shuffle play, the remaining time of the disc is not displayed.

Playing Disc

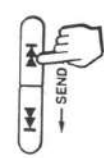
To Locate the Beginning of a Selection (AMS*)

Be sure the SHUFFLE and PROGRAM EDIT indications are not displayed in the display window. Otherwise, press the PROGRAM/SHUFFLE button.

Press 144 or 145 during play or pause.



To locate a previous selection
Press 144 once to locate the beginning of the selection being played. Press continuously to locate a previous selection.



To locate a selection ahead
Press 145 once to locate the next selection after that being played. Press continuously to locate a selection ahead.

In pause mode
The player pauses at the beginning of each selection. To start playing, press II

During program play
The function of 144 or 145 plays selections in the memorized order.

During shuffle play
The disc does not locate a previous selection but the beginning of the selection being played when the 144 button is pressed.

*AMS: Automatic Music Sensor

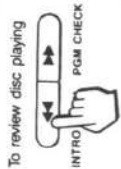
For Selecting a Selection Desired Directly

Press a selection number by using the number buttons. If a selection number is more than 10, press +10 first then the number buttons.

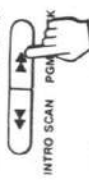
<p>Example: To select the 10th selection</p> <p>Press</p> <p>Display 1- 10</p>	<p>To select the 33rd selection</p> <p>Press</p> <p>Display 1- 2- 3- 33</p>	<p>To select the 30th selection</p> <p>Press</p> <p>Display 1- 2- 3- 30</p>
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To Search for a Particular Point in a Selection (Search)

Press ◀ or ▶ during play or pause.



To review disc playing



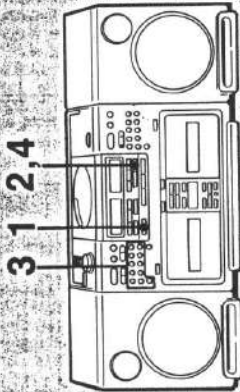
Release the button at the point desired, located by monitoring the high-speed sound.

In the pause mode, you can search rapidly. However, you cannot hear the sound. Observe the time counter.

Using the Built-in Timer

To Set the Timer-on Time

Only the starting time can be preset. The power turns itself off automatically after two hours.



If the timer is preset by mistake Repeat steps from the beginning. The previous preset goes off.

1 Be sure the function lamps does not light.

2 Press.

The TIMER indication appears in the display window.

3 Press the number buttons to program the starting time.

Example: To set to 6:15

4 Press.

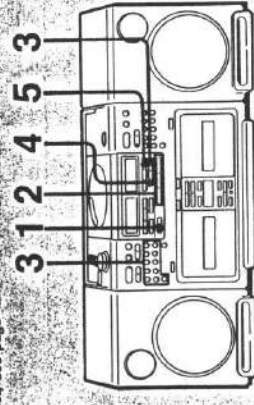
The current time appears in the display window.

Clock system
24-hour system
0:00 = midnight
12:00 = noon

To check the preset time
When you press TIMER in the STANDBY mode, the preset time will appear.

To Listen to the Sound at the Time Desired (The back light in the display window does not light up.)

Check to see that the clock shows the current time. If it does not, see page 12.



At the preset time
The sound will come on automatically at the preset time, and will turn off automatically after two hours have elapsed.

To release the preset time
Press STANDBY. The STANDBY indication disappears from the display window.

1 Press.

The OPER/BATT/STANDBY indicator lights up when you use the unit with batteries. (The OPER/BATT/STANDBY indicator always lights when the AC power cord is connected to the unit.)

2 Select the sound source desired.

CD

TUNER

TAPE/DUB

Corresponding button	Preparation
To listen to a disc	Insert a disc into the disc holder.
To listen to a radio	Select the band and tune in the desired station.
To listen to tape	Insert a tape into deck A.

3

Set the timer.
See above.

4 Set to PLAY.

The STANDBY indication appears in the display window.

To listen to a programmed disc at the time desired
Program the disc. (See page 18)

To listen to a disc in the shuffle mode at the time desired
Be sure that the disc player in the stop mode and press PROGRAM/SHUFFLE until the SHUFFLE indication appears on the display window.

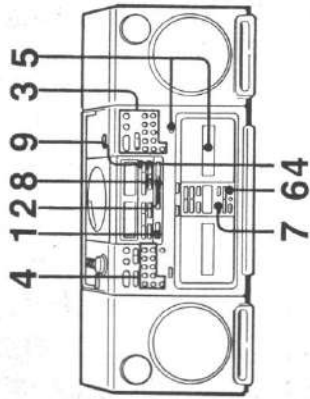
To repeat only one selection
Choose one selection by pressing H4 or H4 and press REPEAT (HALL) once. REPEAT 1 indication appears in the display window.

To repeat the entire disc
Press REPEAT (HALL) twice. REPEAT ALL indication appears in the display window.

Using the Built-in Timer

To Record the Sound at the Time Desired (The back light in the display window does not light up.)

Check to see that the clock shows the current time. If it does not, see page 12.

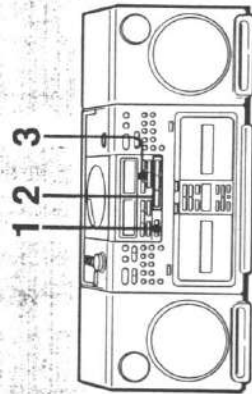


1	 Press.	2	 Press.	3	4	5	6				
The OPR/BATT/STANDBY indicator lights up when you use the unit with batteries. (The OPR/BATT/STANDBY indicator always lights when the AC power cord is connected to the unit.)		The TUNER lamp lights up.		Select the band desired and tune in the station. See page 23.	Set the timer for recording. See page 38.	Insert a cassette into deck B. Use TYPE I (normal) or TYPE II (C-O) tapes.	Set to ON when you record using the DOLBY B Noise Reduction system.				
7		8		9							
Set to the position desired.		Set to REC.		Press.							
<table border="1"> <tr> <td>DIR MODE selector</td> <td>Set to \rightarrow or \leftarrow / SYNC REVEDET.</td> </tr> <tr> <td></td> <td>Set to \leftrightarrow</td> </tr> </table>		DIR MODE selector	Set to \rightarrow or \leftarrow / SYNC REVEDET.		Set to \leftrightarrow	 Press.		 Press.			
DIR MODE selector	Set to \rightarrow or \leftarrow / SYNC REVEDET.										
	Set to \leftrightarrow										
To record on both sides of a cassette		Both-sides-recording should be started from the front side.		To record on one side of a cassette		STANDBY indication appears in the display window.					

At the preset time

The recording will start automatically at the preset time and will turn off automatically after two hours. If a cassette of less than 120 minutes is used, the recording will finish when the tape reaches the end.

To Fall Asleep with the Sound Desired — Sleep function (The back light in the display window does not light up.)



1	 Press.	2	3
The OPR/BATT/STANDBY indicator lights up when you use the unit with batteries. (The OPR/BATT/STANDBY indicator always lights when the AC power cord is connected to the unit.)		Select the sound source desired. When using a disc or a tape as the sound source, have either the tape or the disc in the play ring mode. When listening to a radio, tune in the desired station.	Press to start the sleep function.
		The sound source will turn itself off after 60 minutes.	

To release the sleep function before 60 minutes have elapsed Press SLEEP again or POWER to turn the power off.

You can fall asleep with the sound desired and you will be awakened by the same program at the preset time.

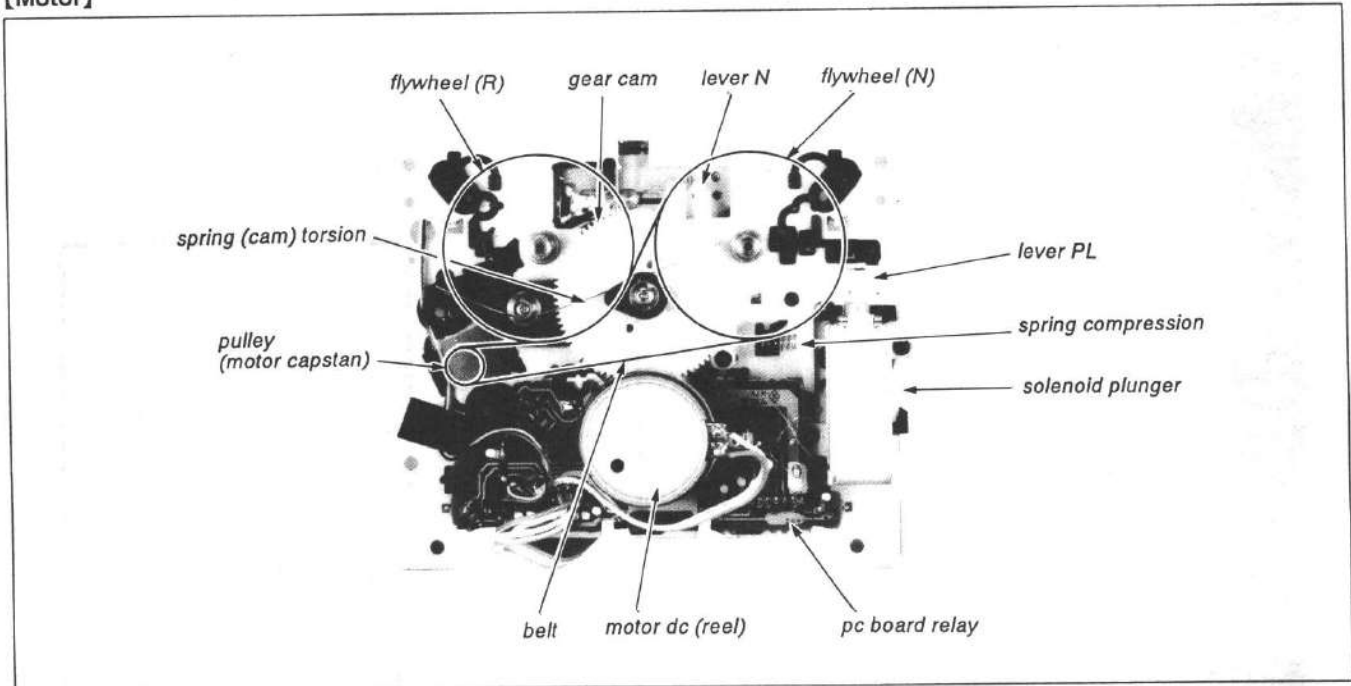
- 1 Follow the steps as described in "To Listen to the Sound at the Time Desired".
- 2 Press SLEEP. The SLEEP indication appears in the display window.

SECTION 3 MECHANISM OPERATION

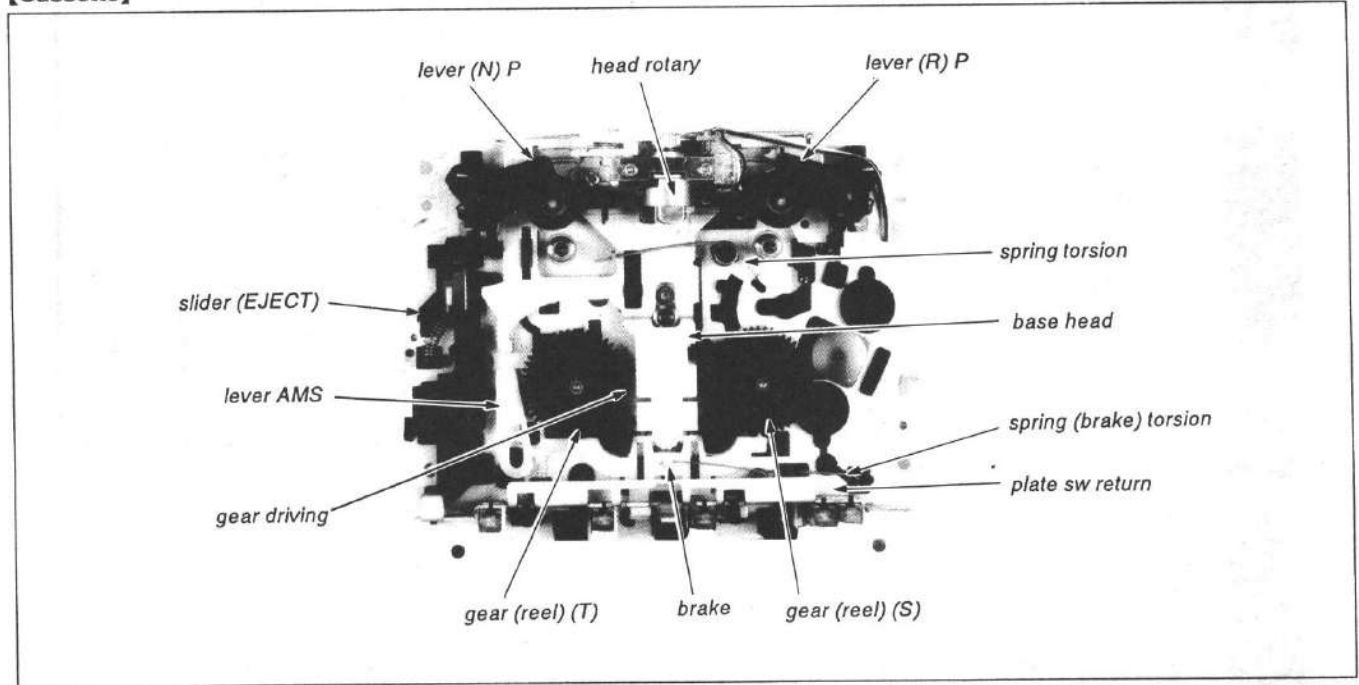
MECHANISM OPERATION

Modes are changed by that "Solenoid plunger" triggers "gear cam" to rotate in synchronizing with flywheel (N).
Main mechanical part names are shown in the followings precedently to mechanism operation.

[Motor]



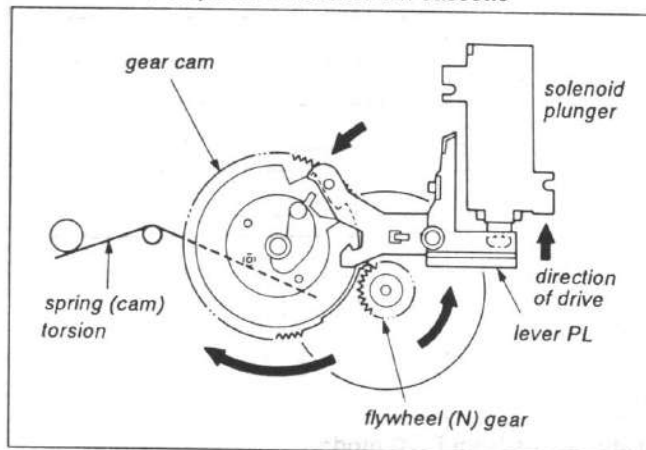
[Cassette]



Operations of the modes are as follows:

1. Operation of the cam gear

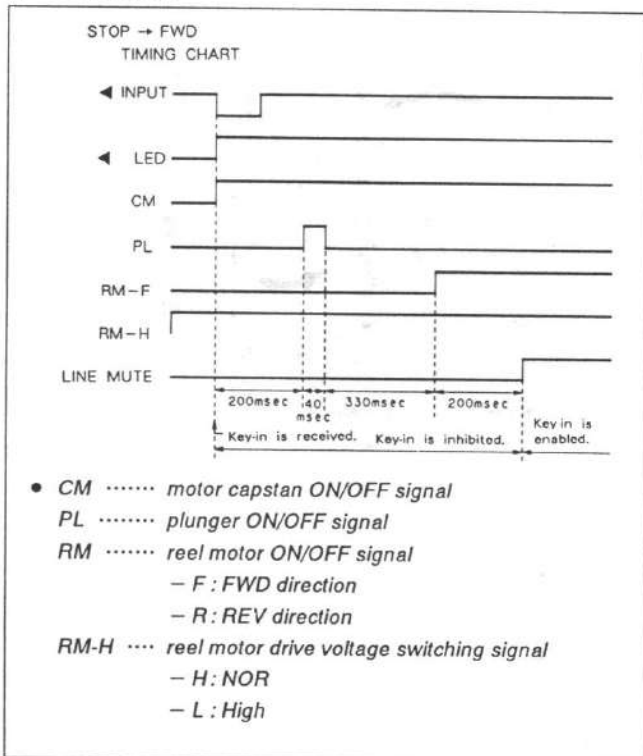
Perspective viewed from cassette



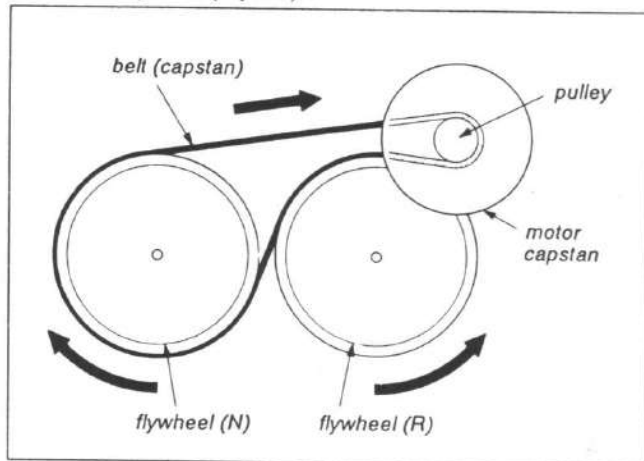
Operations are performed as follows;

1. Power is supplied to "solenoid plunger".
2. "Lever PL" moves in the direction of arrow.
3. "Gear cam" is turned by "spring (cam) torsion".
4. "Gear cam" is aligned with "flywheel (N) gear" so that "gear cam" is turned.
(Approx. 0.5 seconds/1 turn)

2. FWD mode

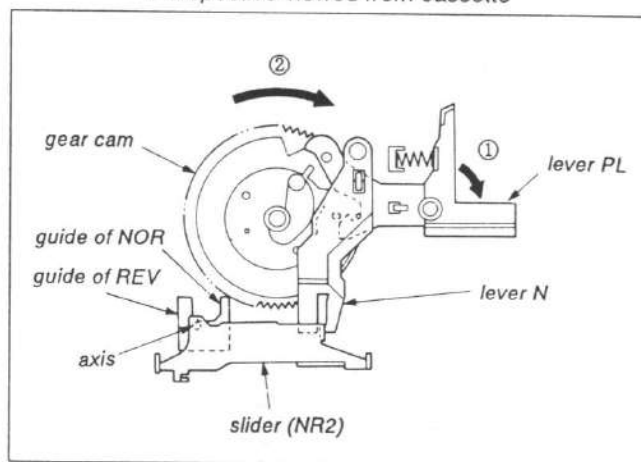


- (1) Power is supplied to "motor capstan" and "flywheel" is turned by "belt (capstan)".



- (2) Power is supplied to "solenoid plunger", "gear cam" is turned, a head is switched to NOR mode, and a head base is moved forward.

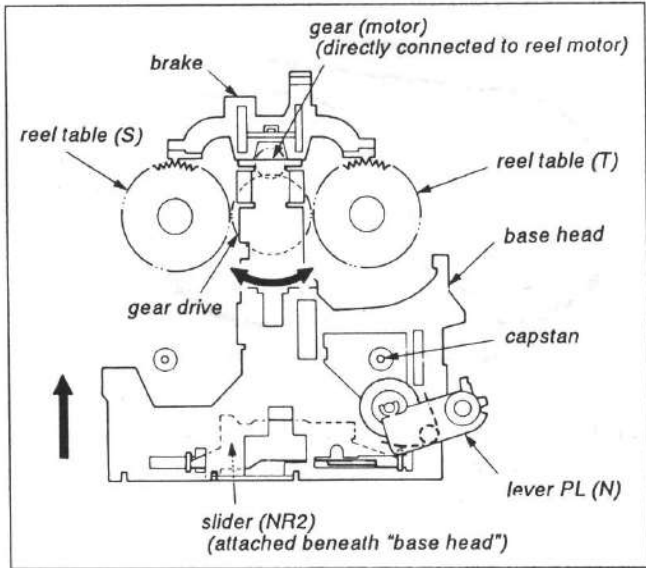
Perspective viewed from cassette



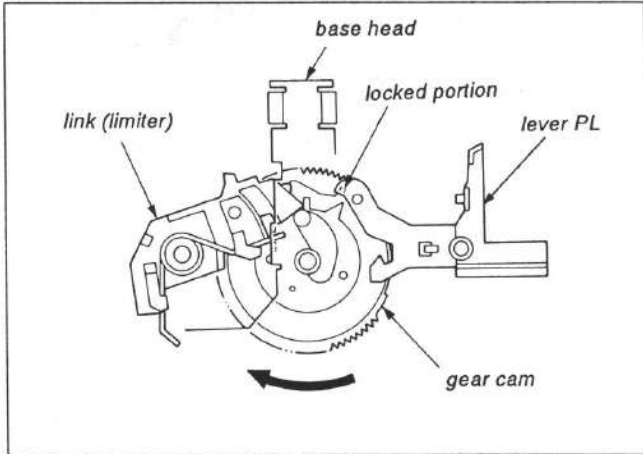
"Lever N" is turned counterclockwise by "gear cam" and is locked at "level PL".

Rotation (counterclockwise) of "lever N" is synchronized with sliding of "slider (NR2)". When "slider (NR2)" is slid rightward, mode of a head is switched from REV to NOR. Simultaneously "lever PL" is pressed to a capstan.

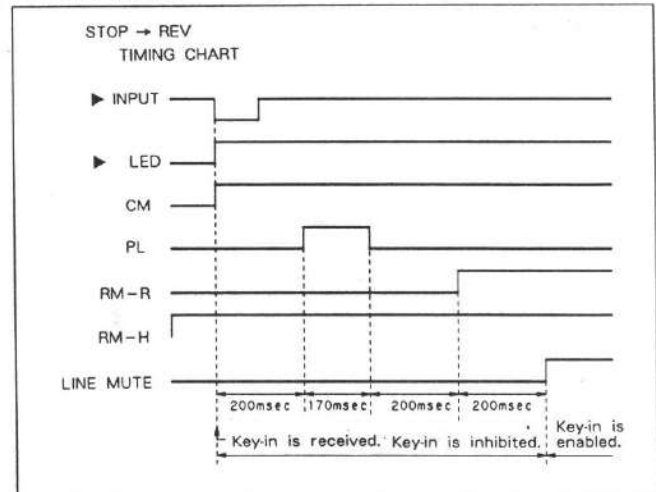
- (3) "Base head" is moved forward and the break is detached from the reel table. "Motor dc (reel)" is driven counterclockwise and the reel table (T) is turned by "gear driveng". "Lever PL" is pressed to the capstan.



- (4) "Base head" is moved forward by "spring torsion" of link (limiter) in synchronizing with rotating of "gear cam". "Gear came" is turned and is locked by "lever PL".
- (5) FWD mode switching is completed.



3. REV mode

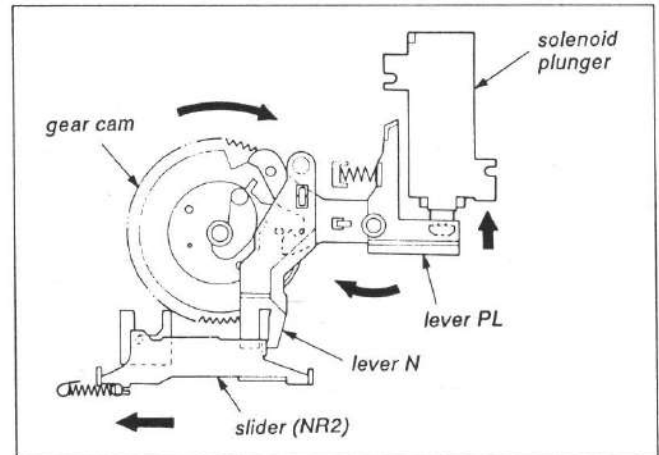


Differences from FWD mode

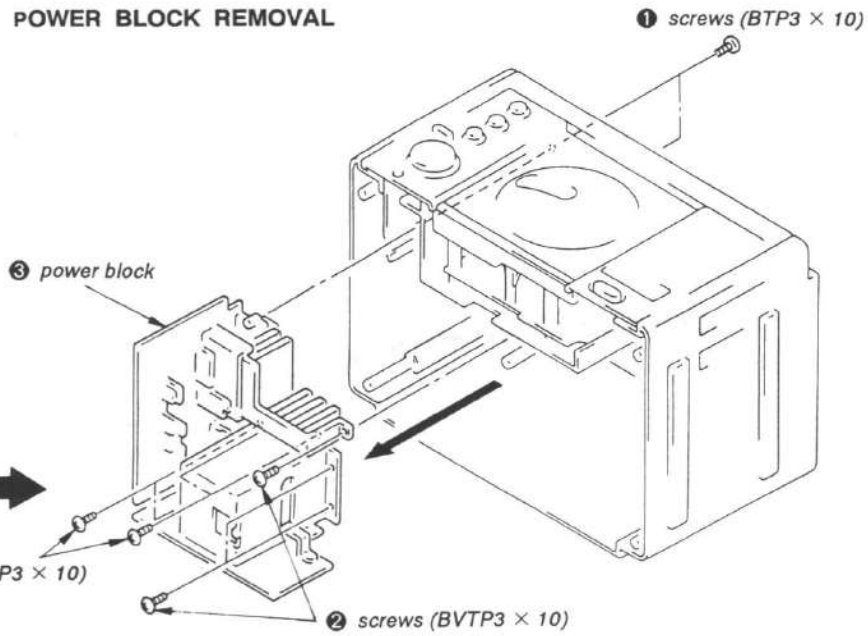
Suction time of "solenoid plunger" is long, "lever N" is not locked by "lever PL", and a head is set to REV mode. The slider (NR2) is set to REV mode and "lever PL (R)" is pressed to a capstan. "Lever N" is turned by "gear cam". However, "lever PL" is not locked and is set back to previous position because "lever PL" is sucked by "solenoid plunger".

"Motor reel" is driven clockwise in REV mode.

Perspective viewed from cassette

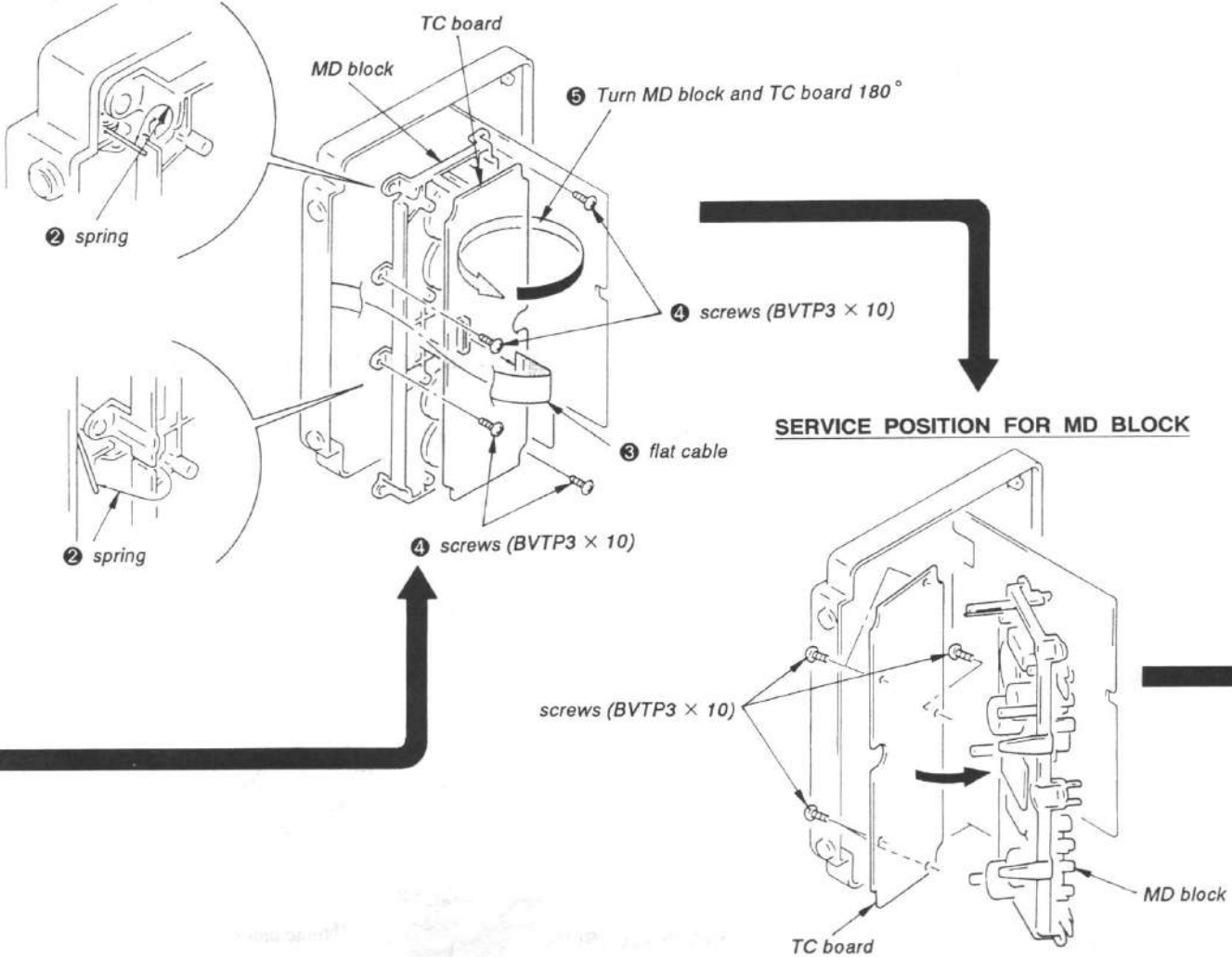


POWER BLOCK REMOVAL

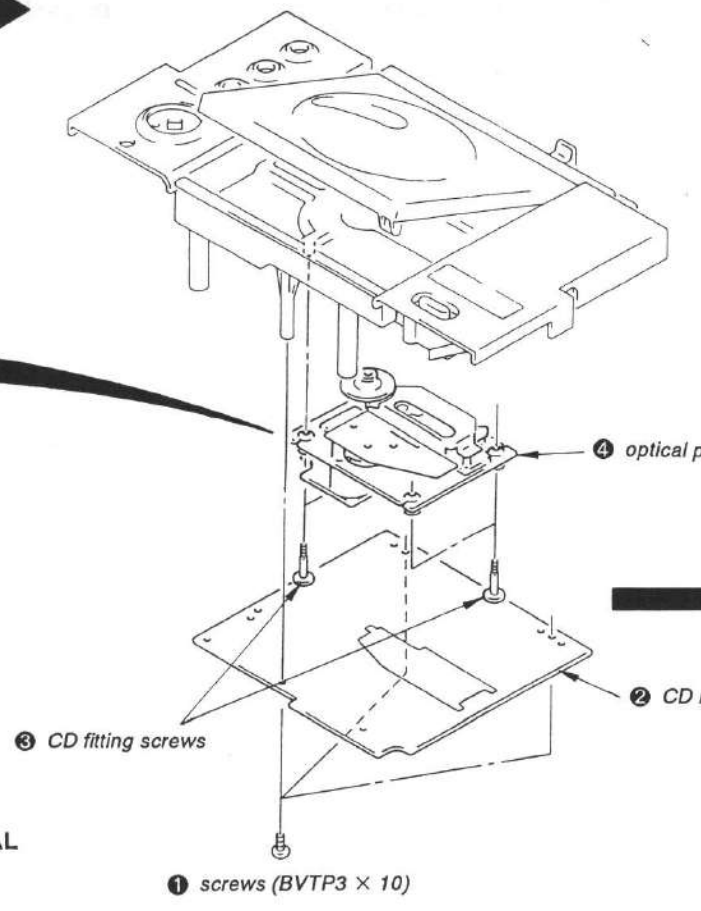
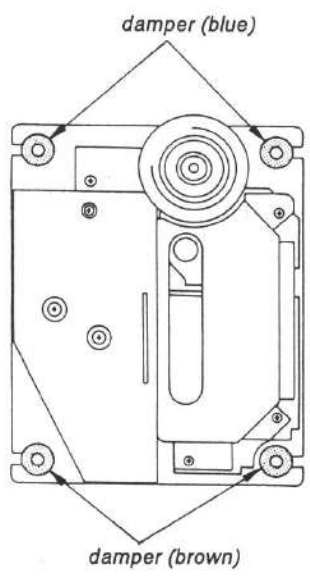


MD BLOCK REMOVAL

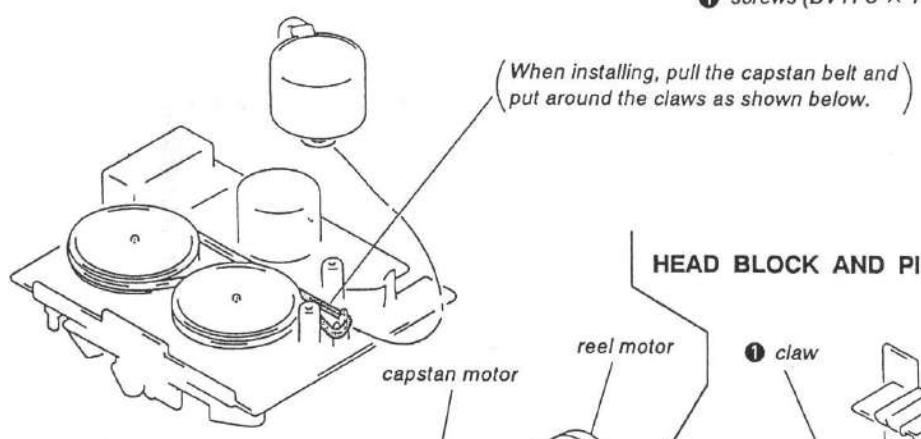
① press the eject buttons of A and B decks.



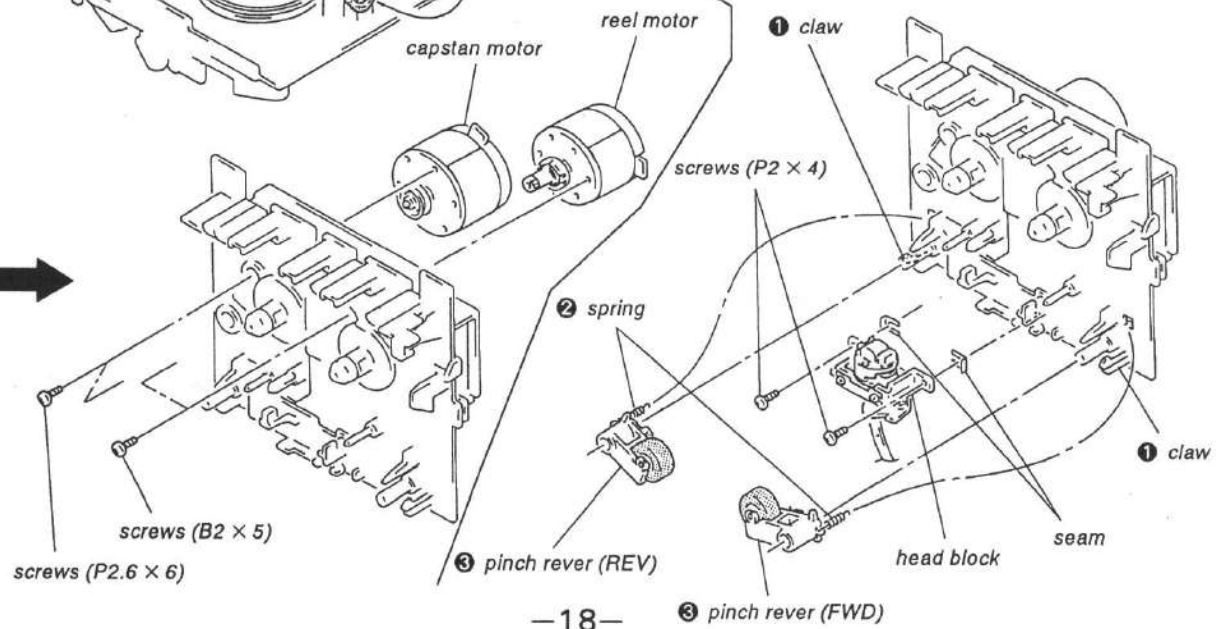
OPTICAL PICK-UP BLOCK REMOVAL



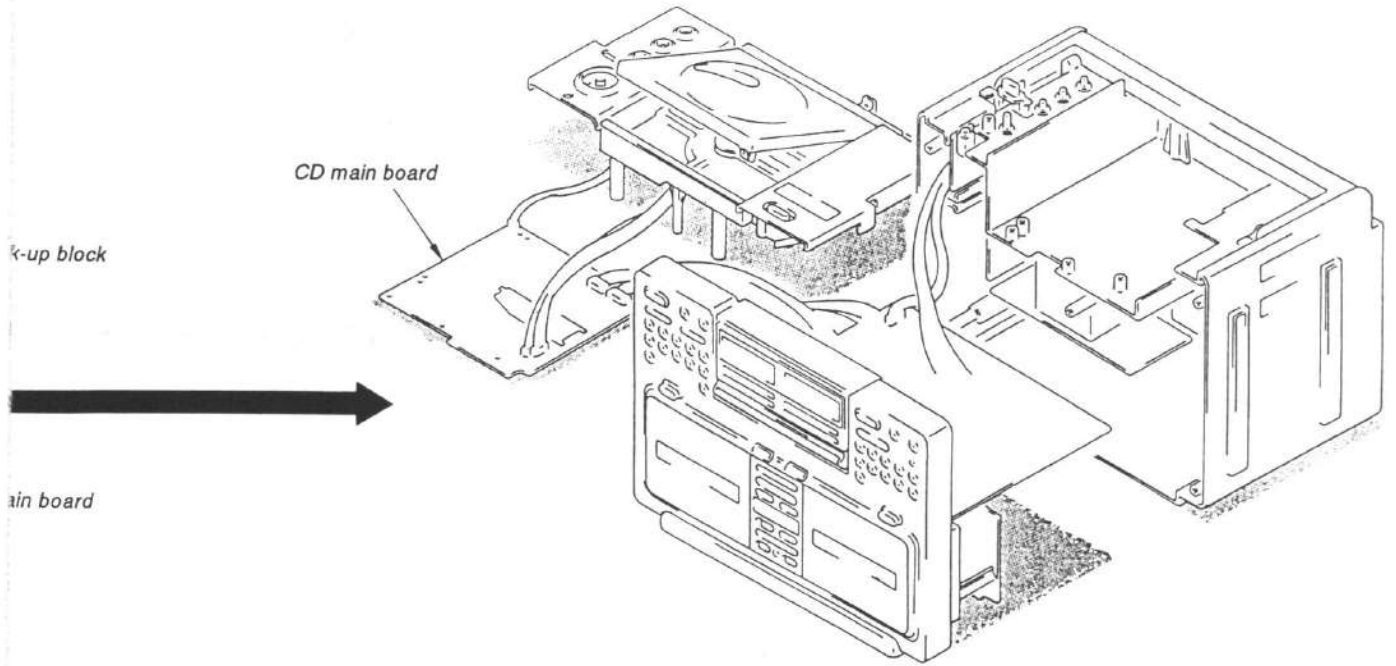
CAPSTAN MOTOR AND REEL MOTOR REMOVAL



HEAD BLOCK AND PINCH LEVER REMOVAL



SERVICE POSITION FOR CD MAIN BOARD



SECTION 5 ADJUSTMENTS

5-1. MECHANICAL ADJUSTMENT

TAPE RECORDER SECTION

PRECAUTION

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

record/playback head	pinch rollers
erase head	rubber belts
capstans	idlers
2. Demagnetize the record/playback/erase head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed in the order given in this service manual.

Torque Measurement

DECK A, B:

Mode	Torque Meter	Meter reading
FWD	CQ-102C	30 – 55 g•cm (0.42 – 0.76 oz•inch)
FWD back tension		1.5 – 5 g•cm (0.02 to 0.06 oz•inch)
REV	CQ-102RC	30 – 55 g•cm (0.42 – 0.76 oz•inch)
REV back tension		1.5 – 5 g•cm (0.02 to 0.06 oz•inch)
FF	CQ-201B	150 – 180 g•cm (2.08 – 2.49 oz•inch)

Tape Tension:

DECK A, B

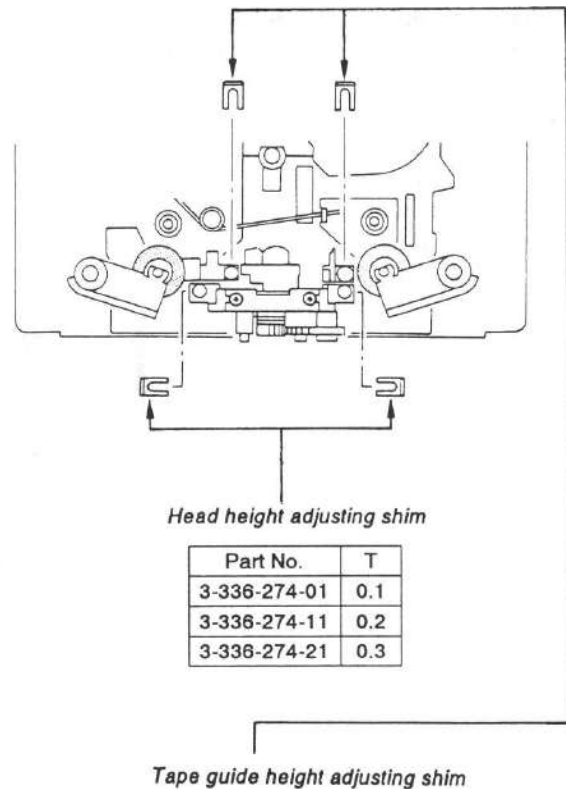
Mode	Tension Meter	Meter reading
FWD	CQ-403A	more than 100g (more than 1.38 oz•inch)
REV (Deck B)	CQ-403R	

Head Height Adjustment DECK B

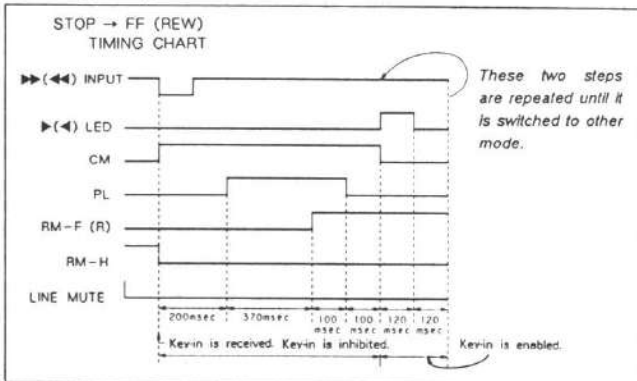
Adjustment Procedure:

1. Insert a mirror cassette CQ-009C.
2. Make the set to FWD playback mode.
3. Loosen the FWD tape guide fixing screw and adjust with inserting the adjusting shim to eliminate tape curl and tape twist in the portions of tape guide and head.
4. Make the set to REV tape guide fixing screw and adjust with inserting the adjusting shim to eliminate tape curl and tape twist in the portions of tape guide and head.
5. Loosen the REV tape guide fixing screw and adjust with inserting the adjusting shim to eliminate tape curl and tape twist in the portions of tape guide and head.
6. After adjustment, apply suitable locking compound to the fixing screws.

Adjustment Location:



4. FF (REW) mode



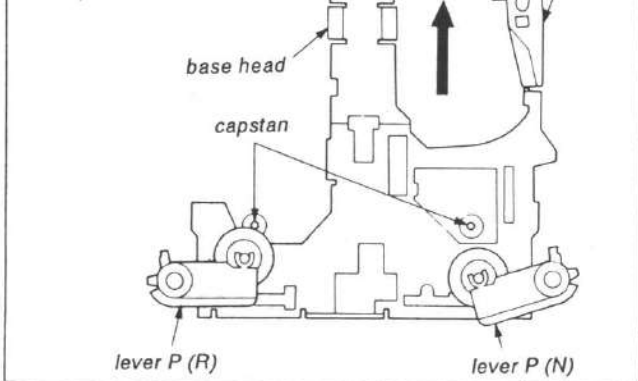
Mechanism operation (same operation for both FF and REW modes)

The head base is locked at a set position by the AMS lever synchronized with "solenoid plunger".

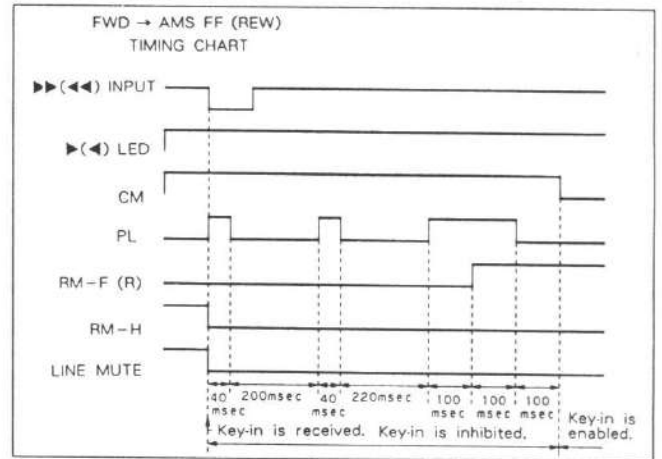
"Motor capstan" is turned off after "base head" is locked.

Voltage of "motor reel" in FF or REW mode is 6 V.

- Direction of head is REV.
- Direction of turning of "motor reel".
FF : Counterclockwise
REW : Clockwise
- Length by which "base head" moves forward.
"Base head" moves 4 mm from a position in STOP mode.



5. FWD AMS mode



Mechanism operation

It is changed from FWD mode to STOP mode, "lever AMS" is stopped in midway of that "base head" is moved forward as mechanism operation of FWD mode, and it is set to FWD, AMS, and FF/REW modes. A position of "Base head" is the same as in FF/REW mode (advanced by 4 mm than STOP mode).

Difference from FF/REW mode is a turning direction of "motor reel".

6. REV AMS (REW/FF) mode

Timing chart

STOP → REV → AMS•REW/FF

- All the signals in REV AMS mode is the same as those of REW mode except that a LED blinks or lights on.

Mechanism operation

It is changed from REV mode to STOP mode, "lever AMS" is stopped in midway of that "base head" is moved forward as mechanism operation of REV mode, and it is set to REV, AMS, and REW/FF modes.

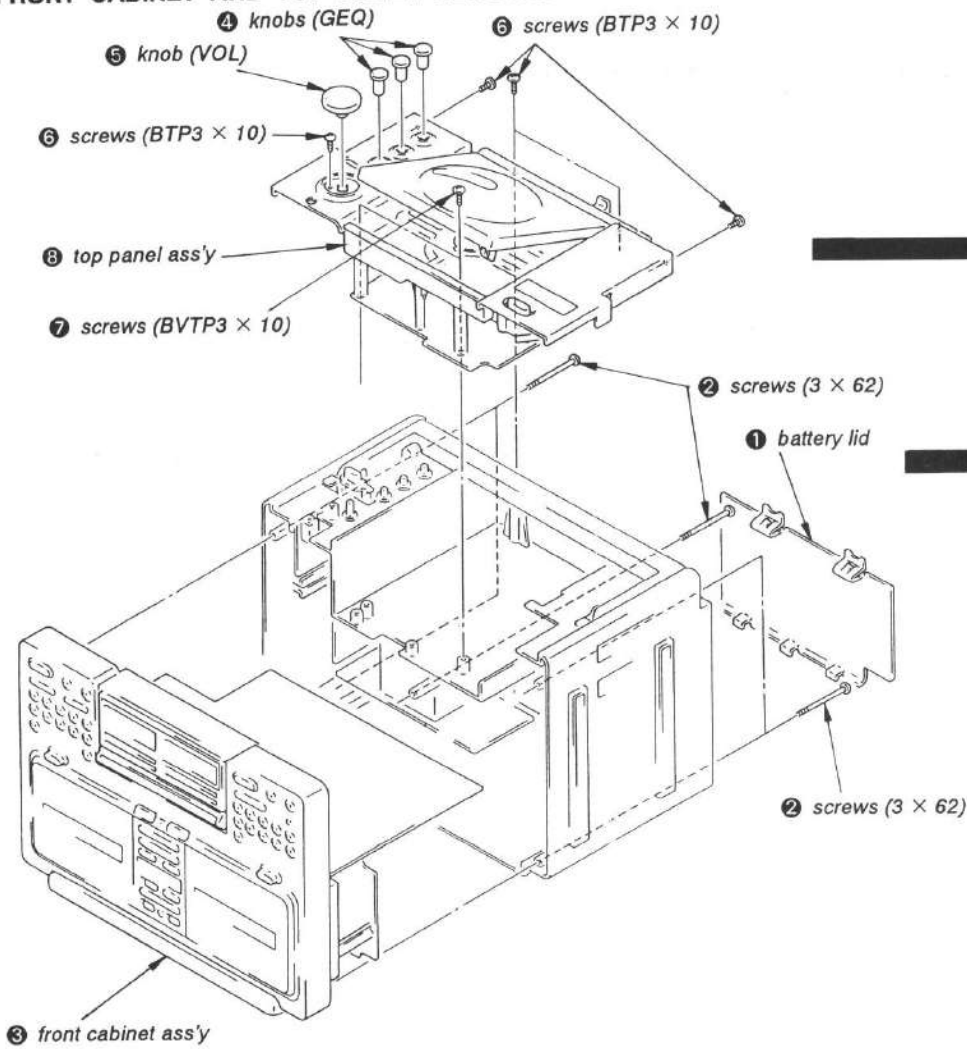
A position of "Base head" is the same as in FF/REW mode (advanced by 4 mm than STOP mode).

Difference from FF/REW mode is a turning direction of "motor reel".

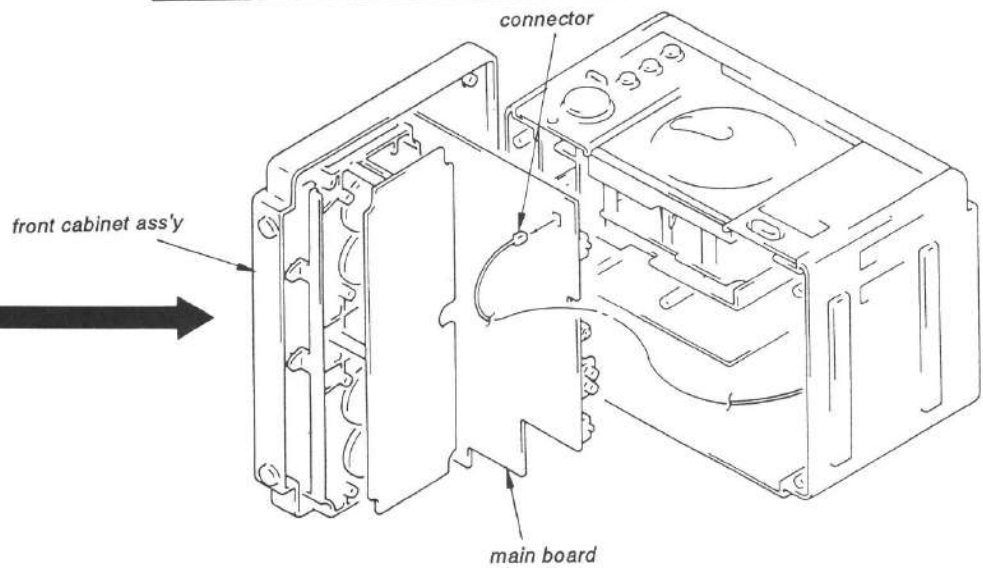
SECTION 3 DISASSEMBLY

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

FRONT CABINET AND TOP PANEL REMOVAL



SERVICE POSITION FOR MAIN BOARD



5-2. ELECTRICAL ADJUSTMENTS

TAPE RECORDER SECTION

PRECAUTION

- Adjustments should be performed in the order given. Generally playback circuit adjustments should be completed before performing recording circuit adjustments.
- Adjustments should be performed for both L-ch and R-ch. Switches and controls should be set as follows unless otherwise specified.

- Positions of switches and control knobs

FUNCTION	TAPE
ISS	2
DIRECTION MODE	⇄
Volume	standard output level position
ROTARY EQUALIZER	center LEVEL

- Standard input level

Input Pin	MIX MIC
Signal source impedance	300 Ω
Input signal level	2.5 mV - 50 (2.5 dB)
Frequency	1 kHz

- Standard output level

Output Pin	SP OUT (L. R)	PHONES	DOLBY OUT
Signal source impedance	4 Ω	32 Ω	no-load
Output signal level	0.775 V (0 dB)	0.245 V (-10 dB)	0.18 V (-12.7 dB)

0 dB=0.775 V

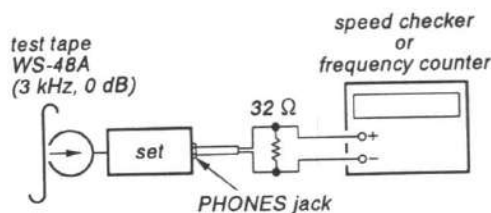
- Test tape

Test Tape	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape speed adjustment
P-4-A100	10 kHz, -10 dB	Head azimuth and phase adjustment
P-4-L300	315 Hz, 0 dB	PB level adjustment
CS-122	-	Recording bias and Recording level adjustment

Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: FWD playback



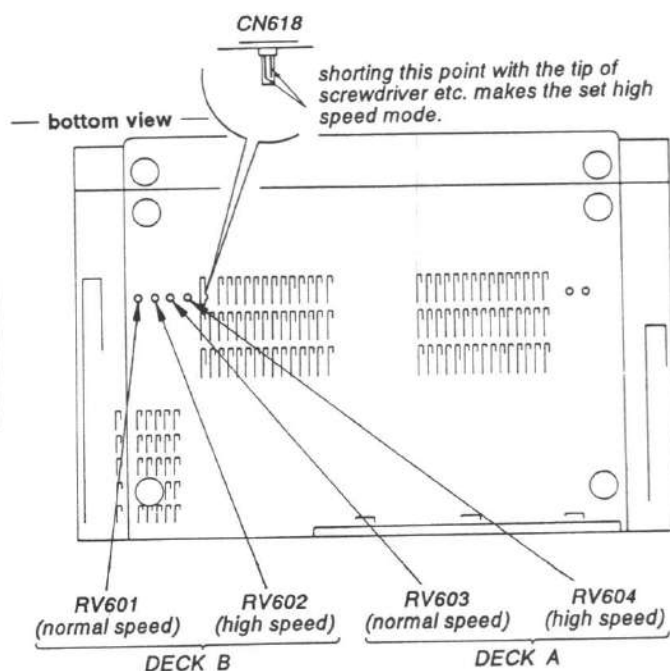
Perform high speed adjustment before normal speed adjustment. Playback the test tape WS-48A and adjust to meet the specifications below.

Adjustment Value:

Speed/deck	Adjustment part	test pin CN618	speed checker heading	frequency counter reading
high	A	RV604	-1.17 to -0.83%	5,940 \pm 10 Hz
	B	RV602		
normal	A	RV603	-1.17 to -0.83%	2,970 \pm 5 Hz
	B	RV601		

Frequency difference between FWD and REV should be within 1%

Adjustment Location: TC board

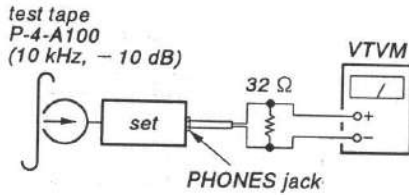


Record/Playback Head Azimuth Adjustment

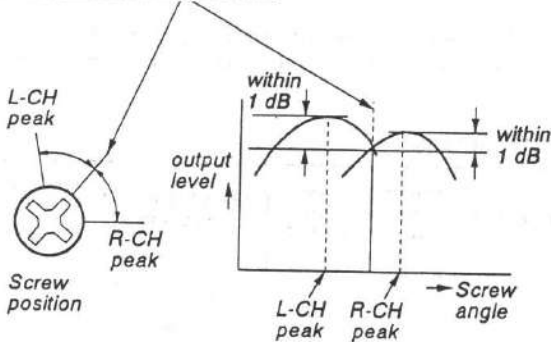
DECK B

Procedure:

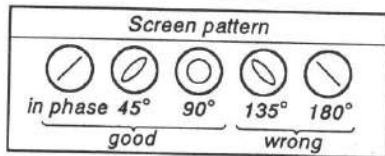
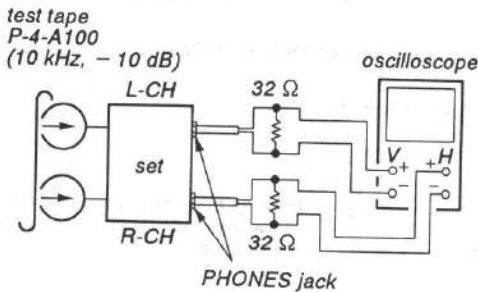
1. Mode: FWD/REV playback



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 1 dB.

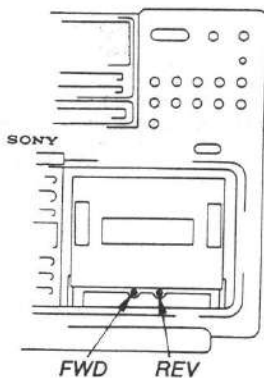


3. Phase Check
Mode: FWD/REV playback



4. Set in the REV mode and repeat the step 1 to 3.
5. After the adjustment, lock the screws with locking compound.

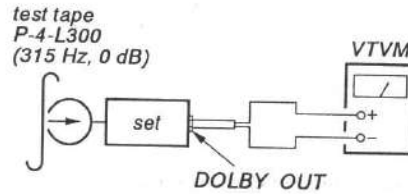
Adjustment Location: Record/Playback head



Playback Level Adjustments **DECK A** **DECK B**

Procedure:

- playback -
- VOLUME standard output level position (See page 21).



Adjust with RV102 (L-ch), RV202 (R-ch): Deck A and RV101 (L-ch), RV201 (R-ch), Deck B so that the output level becomes to the adjustment value.

Adjustment Value: - 12.4 dB -- 13.0dB (0.19 - 0.17 V)
Level difference between channels: within 0.3 dB

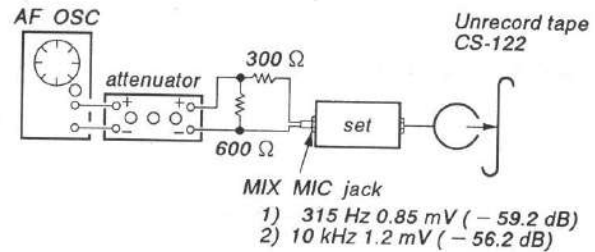
Confirm the playback level doesn't change on repeating playback and stop.

Adjustment Location: TC board (See page 23).

Recording Bias Adjustment **DECK B**

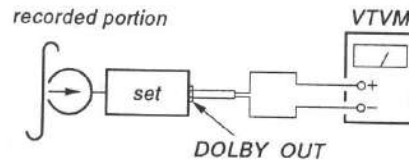
Procedure:

1. Record



- 1) 315 Hz 0.85 mV (- 59.2 dB)
- 2) 10 kHz 1.2 mV (- 56.2 dB)

2. Playback
- VOLUME standard output level position. (See page 21).



3. Playback the recorded signal on item 1, and confirm the signal level becomes to the adjustment value. When it is out of order, adjust with RV103 (L-ch) and RV203 (R-ch) and repeat items 1 to 3.

Adjustment Value: 10 kHz playback level difference adjust 315 Hz playback level; - 0.5 to +0.5 dB.

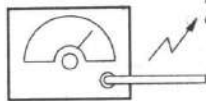
Adjustment Location: TC board (See page 23).

TUNER SECTION

[MW/LW]

BAND switch: MW, LW

AM RF SSG



Put the lead-wire antenna close to the set.

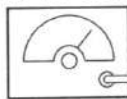
30% amplitude modulation by 400 Hz signal

Output level: as low as possible

[FM]

FUNCTION switch: FM

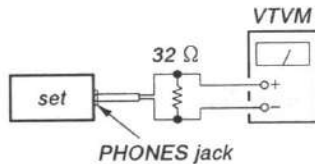
FM RF SSG



to FM ANT IN

22.5 kHz frequency deviation by 400 Hz 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.

MW FREQUENCY COVERAGE ADJUSTMENT

Frequency indication	531 kHz	1,611 kHz
Reading on digital voltmeter	0.95 ± 0.1 V	9.5 ± 0.5 V
Adjusting element	T1	CT5

MW TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L3	621 kHz
CT4	1,404 kHz

LW FREQUENCY COVERAGE ADJUSTMENT

Frequency indication	153 kHz	281 kHz
Reading on digital voltmeter	2.35 ± 0.1 V	8 ± 0.5 V
Adjusting element	T2	CT6

LW TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L3	162 kHz
CT3	261 kHz

FM FREQUENCY COVERAGE ADJUSTMENT

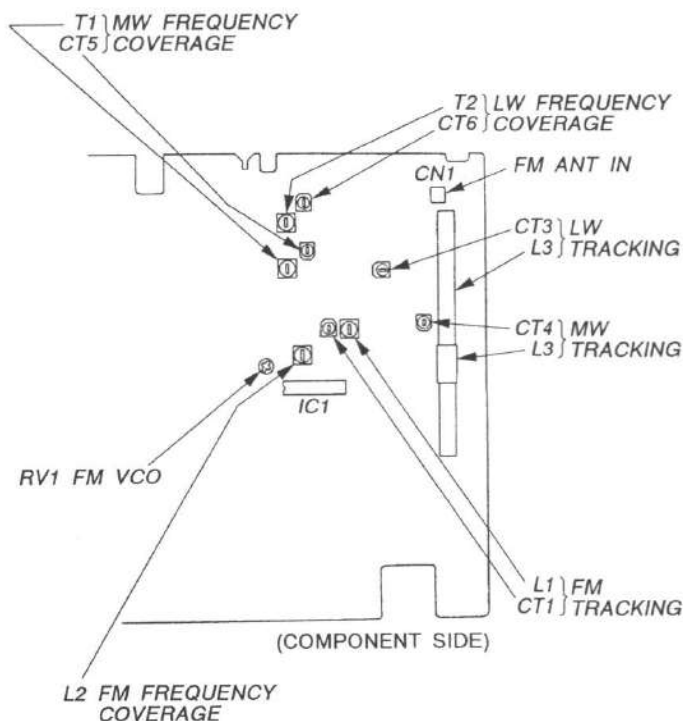
Frequency indication	87.5 MHz	108 MHz
Reading on digital voltmeter	3 ± 0.1 V	8 ± 1.5 V
Adjusting element	L2	check

FM TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

L1	87.5 MHz
CT1	108 MHz

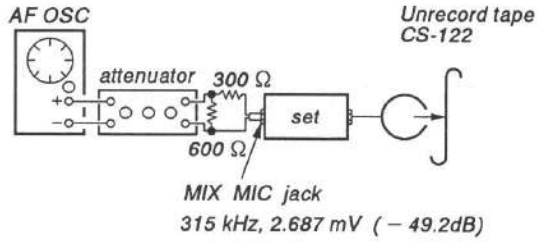
Adjustment Location: MAIN board



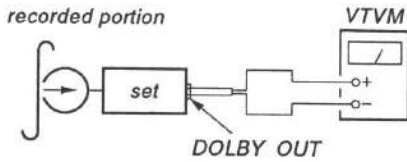
Recording Level Adjustment [DECK B]

Procedure:

1. Record



2. Playback
- VOLUME Standard output level position. (See page 21)

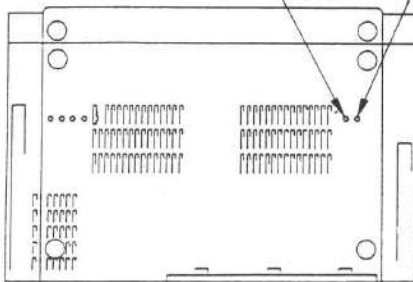


3. Playback the recorded signal on item 1, and confirm the signal level becomes to the adjustment value.
When it is out of order, adjust with RV104 (L-ch) and RV204 (R-ch) and repeat items 1 to 3.

Adjustment Value: 0 ± 0.5 dB against the monitor output level before recording

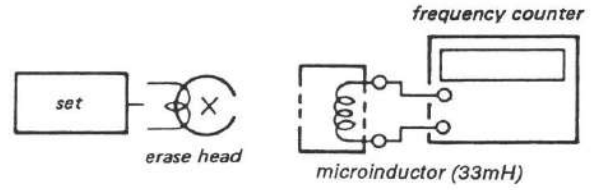
Adjustment Location: TC board

— bottom view — RV104 (L-CH) RV204 (R-CH)



Recording Bias Oscillation Frequency Adjustment

Procedure :



1. Put into no-signal state.
2. Bring the microinductor, which is connected to the frequency counter, close to the erase head core.
3. When the ISS switch is at 2, adjust T301 for $107.5 \text{ kHz} \pm 1 \text{ kHz}$.

Adjustment Location: TC board

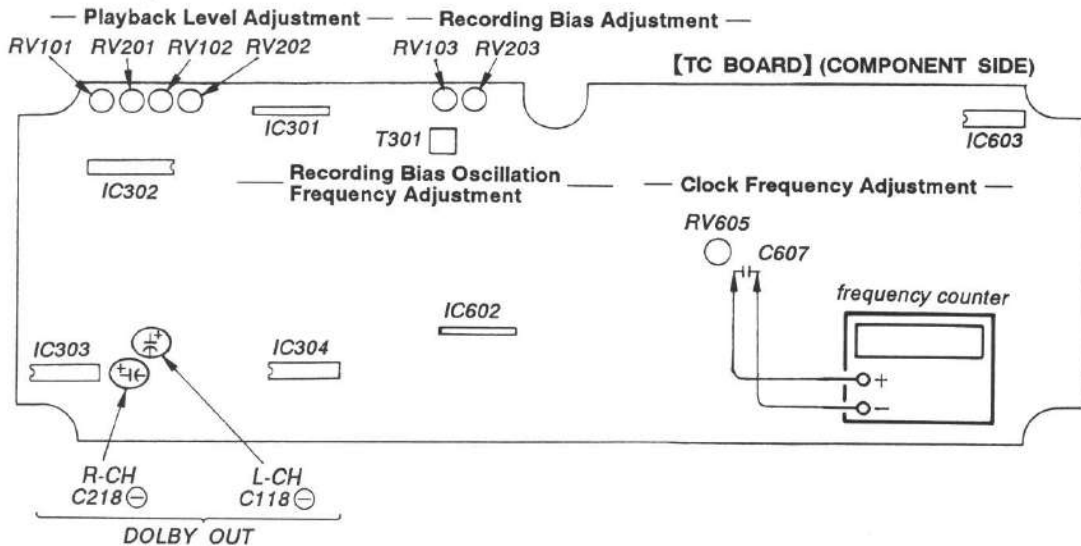
Clock Frequency Adjustment

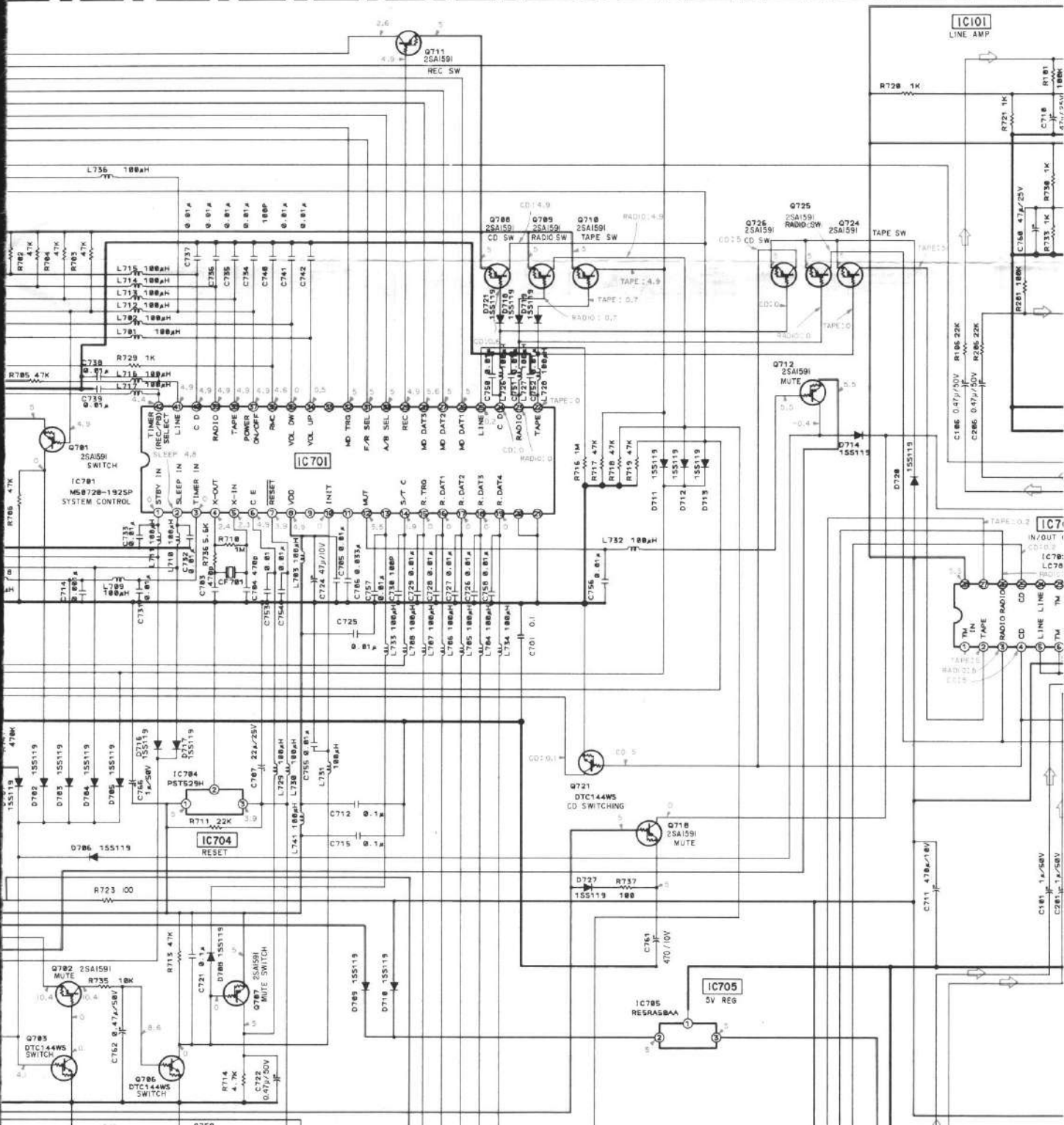
Procedure:

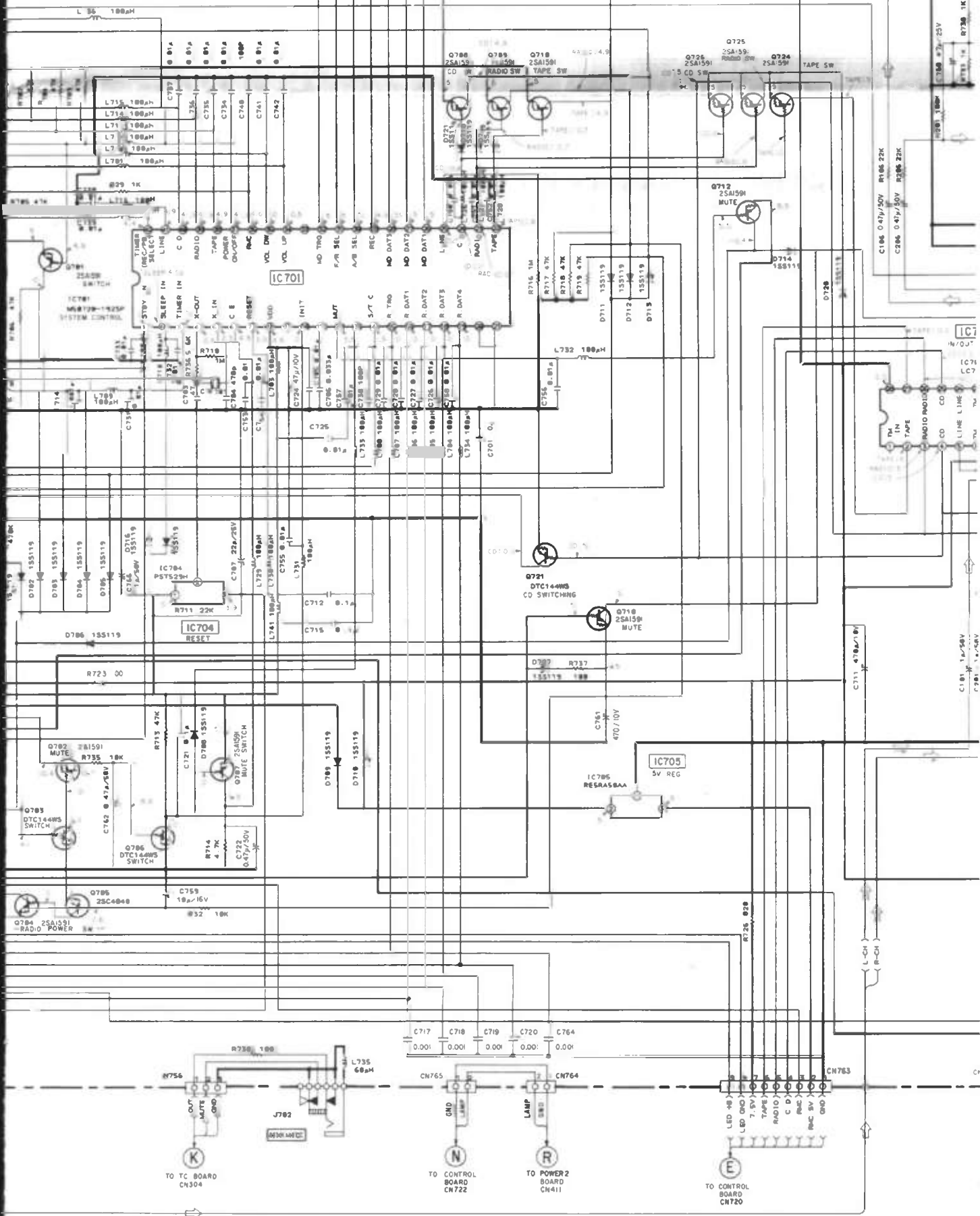
Turn on the power and adjust with RV605 so that the reading on the frequency counter becomes $6.4 \text{ kHz} \pm 40 \text{ Hz}$ at the both sides of C607.

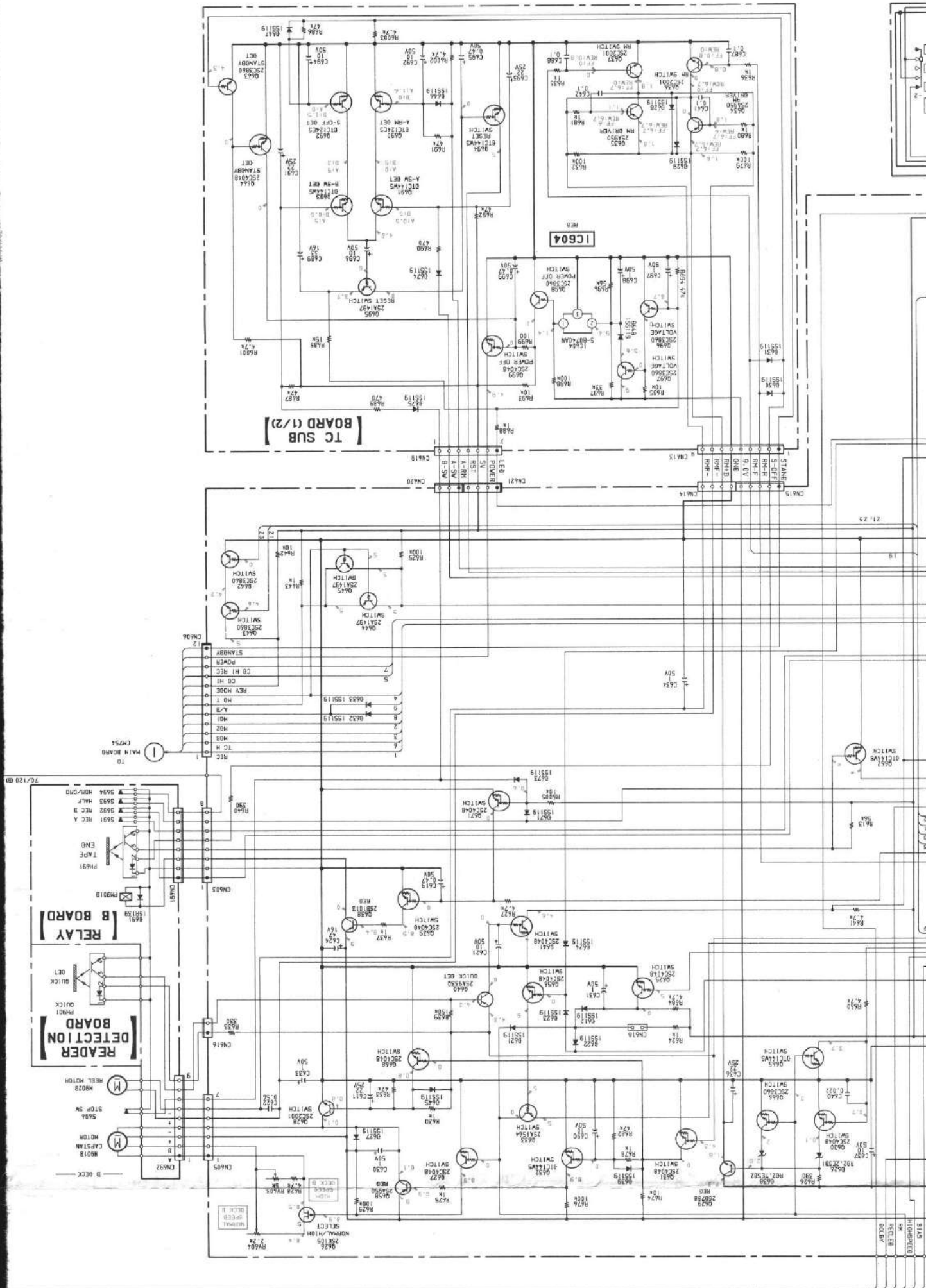
Adjustment Location: TC board

[Adjustment Location]

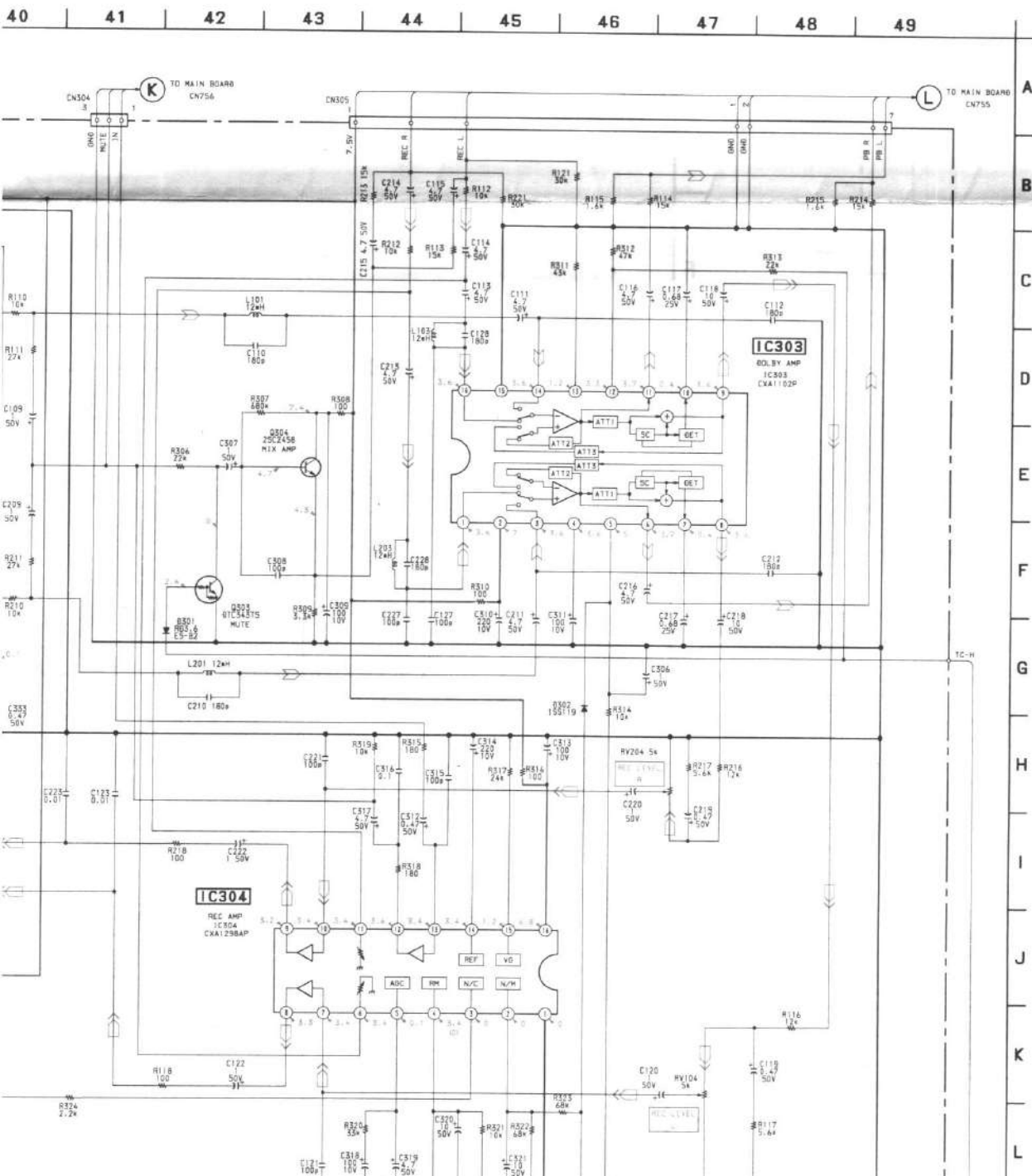








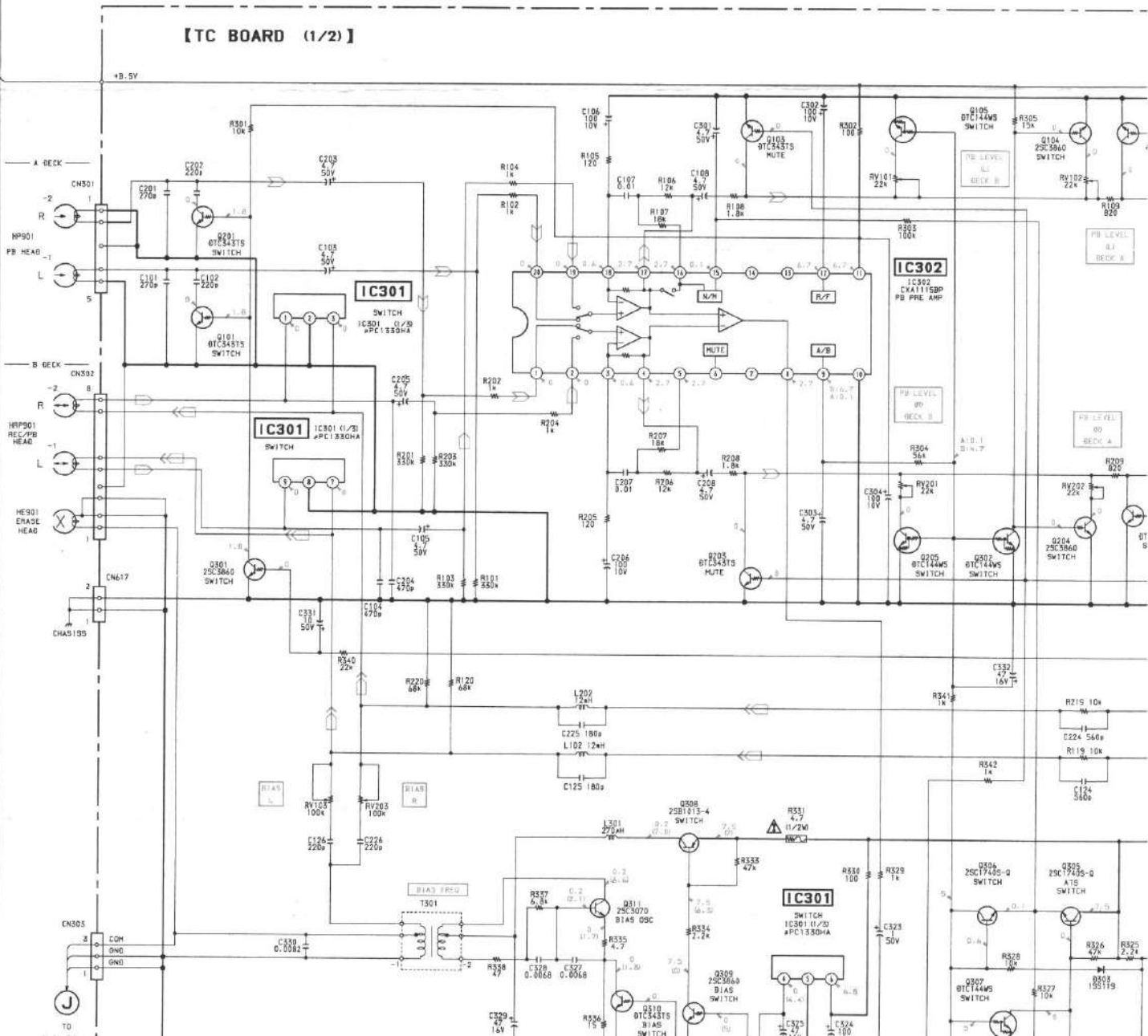
Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
C-2	Q631	C-4	Q651	H-4	Q690	F-3
C-2	Q632	C-4	Q652	H-4	Q691	F-3
C-2	Q633	D-4	Q653	G-5	Q692	F-2
B-3	Q634	H-1	Q654	G-4	Q693	F-3
B-4	Q635	H-2	Q655	H-4	Q694	G-3
A-3	Q636	F-1	Q656	D-4	Q695	F-3
A-3	Q637	G-1	Q657	E-2	Q696	H-3
D-7	Q638	C-4	Q658	C-3	Q697	G-3
C-8	Q639	C-4	Q659	A-4	Q698	H-3
C-8	Q640	C-3	Q660	A-4	Q699	H-3
C-9	Q641	C-3	Q661	B-2		
C-8	Q642	D-4	Q662	C-8		
C-9	Q643	D-5	Q663	G-3		
D-8	Q644	D-5	Q664	H-3		
E-4	Q645	D-5	Q665	D-3		
E-3	Q646	E-9	Q666	D-3		
D-3	Q647	D-9	Q667	D-1		
D-3	Q648	D-9	Q668	B-7		
C-3	Q649	D-9	Q670	C-2		
D-3	Q650	D-8	Q671	C-3		



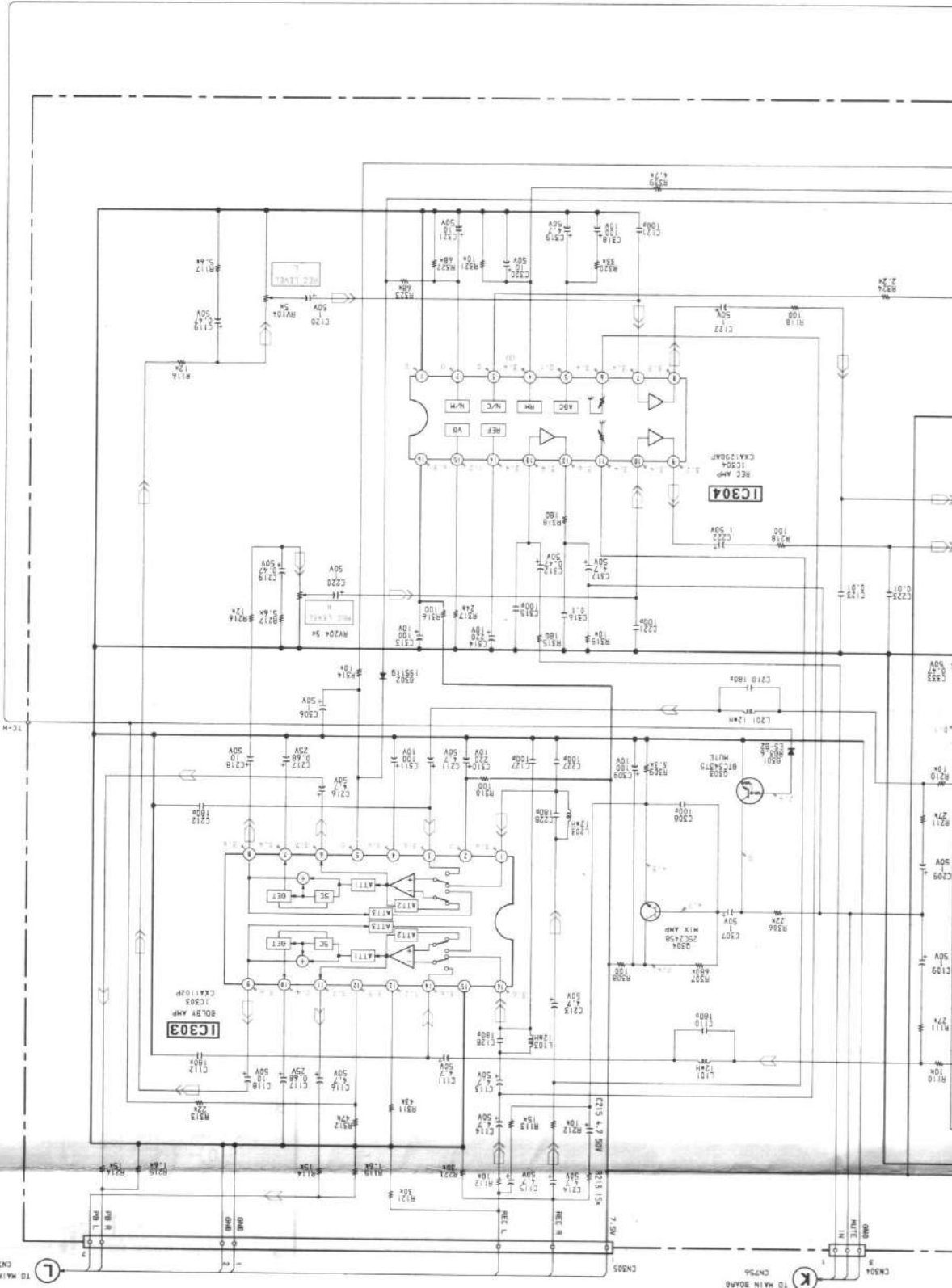
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	D-13	D618	C-7	D639	C-4	D660	J-3	IC301	A-11	Q302	B-13	Q303	D-13
D302	C-13	D619	C-7	D640	C-5	D661	J-4	IC302	B-13	Q304	C-12	Q305	B-10
D303	B-10	D620	E-7	D641	B-4	D662	J-2	IC303	E-14	Q306	B-10	Q307	B-9
D601	E-2	D621	E-4	D642	C-8	D663	J-2	IC304	D-11	Q308	B-9	Q309	B-9
D602	D-2	D622	E-4	D643	D-2	D664	I-2	IC601	B-6	Q310	B-8	Q311	B-8
D603	C-2	D623	E-4	D644	E-2	D665	I-2	IC602	D-9	Q601	E-3	Q602	D-2
D604	D-2	D624	E-4	D645	D-4	D670	B-2	IC603	A-2	Q603	E-1	Q604	D-2
D605	C-4	D626	D-3	D646	F-4	D671	B-3	IC604	G-3	Q605	E-2	Q606	D-2
D606	C-2	D627	D-3	D647	F-2	D672	B-1	Q101	B-12	Q607	D-2	Q608	C-2
D607	C-2	D628	H-1	D648	G-3	D673	E-3	Q103	B-14	Q609	C-2	Q610	C-2
D608	A-4	D629	H-1	D650	I-4	D674	F-4	Q104	B-13	Q610	C-2		
D609	A-3	D630	G-2	D651	I-4	D675	F-4	Q105	B-14				
D610	B-2	D631	G-2	D652	I-4	D681	G-8	Q106	B-14				
D611	B-3	D632	E-7	D653	I-3	D691	I-8	Q201	B-11				
D612	E-4	D633	E-7	D654	I-3	D696	B-7	Q203	B-14				
D613	G-5	D634	D-10	D655	I-3	D697	A-7	Q204	B-13				
D614	C-7	D635	E-10	D656	K-3	D698	A-7	Q205	B-14				
D615	D-7	D636	D-9	D657	J-4	D699	A-7	Q206	C-14				
D616	H-5	D637	D-9	D658	J-4			Q301	C-12				
D617	C-9	D638	D-3	D659	J-3								

28 29 30 31 32 33 34 35 36 37 38 39



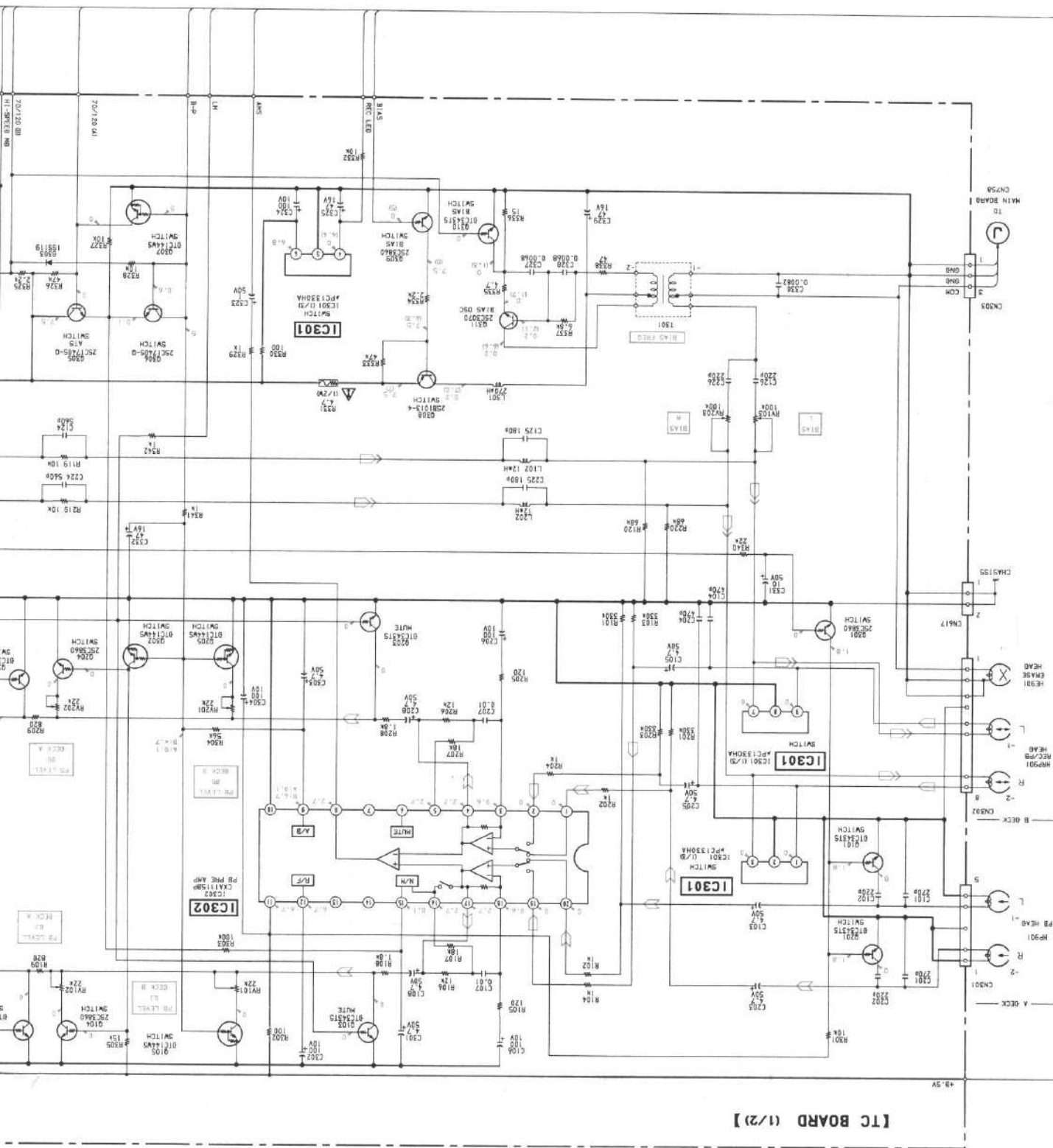
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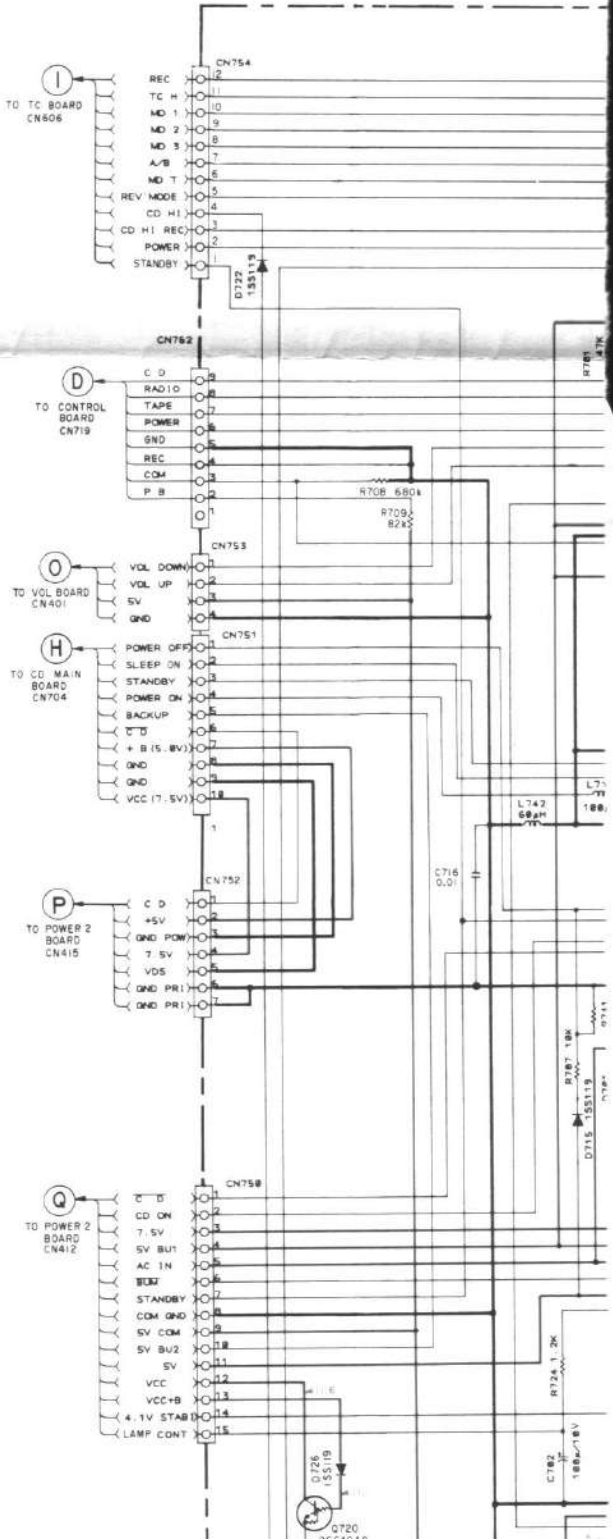
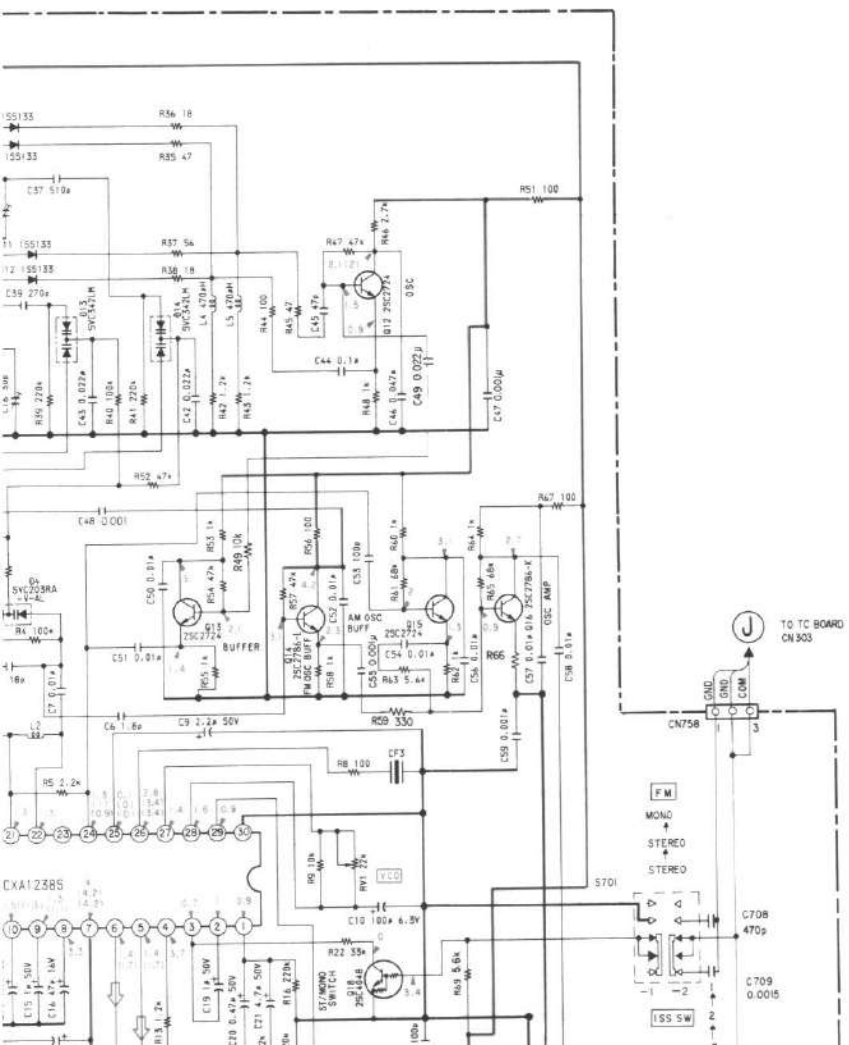
A TO MAIN BOARD CN755

K TO MAIN BOARD CN756

7.5V



TTC BOARD (1/2)



6-2. MAIN BLOCK SCHEMATIC DIAGRAM

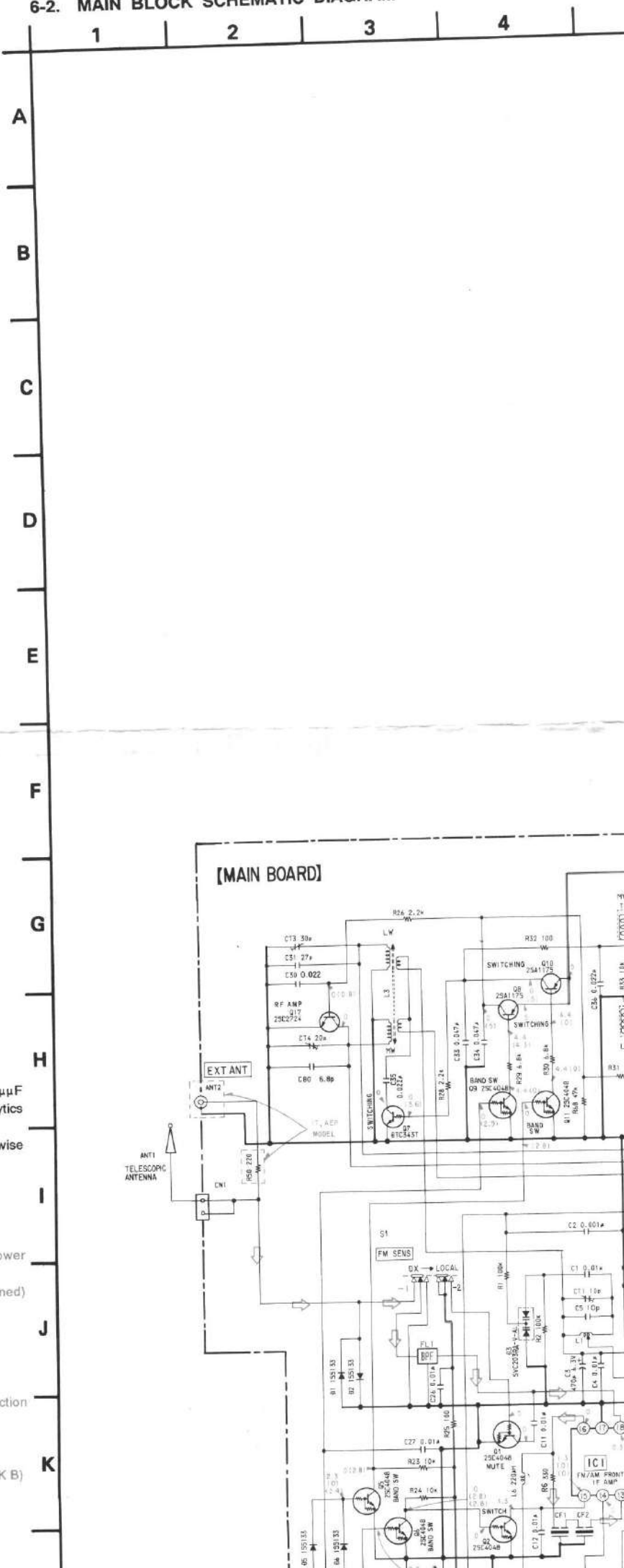
• Semiconductor Location

Ref. No.	Location	Ref. No.
D301	D-13	D618
D302	C-13	D619
D303	B-10	D620
D601	E-2	D621
D602	D-2	D627
D603	C-2	D67
D604	D-2	D6
D605	C-4	D
D606	C-2	
D607	C-2	
D608	A-4	
D609	A-3	
D610	B-2	
D611	B-3	
D612	E-4	
D613	G-5	
D614	C-7	
D615	D	
D616		
D617		

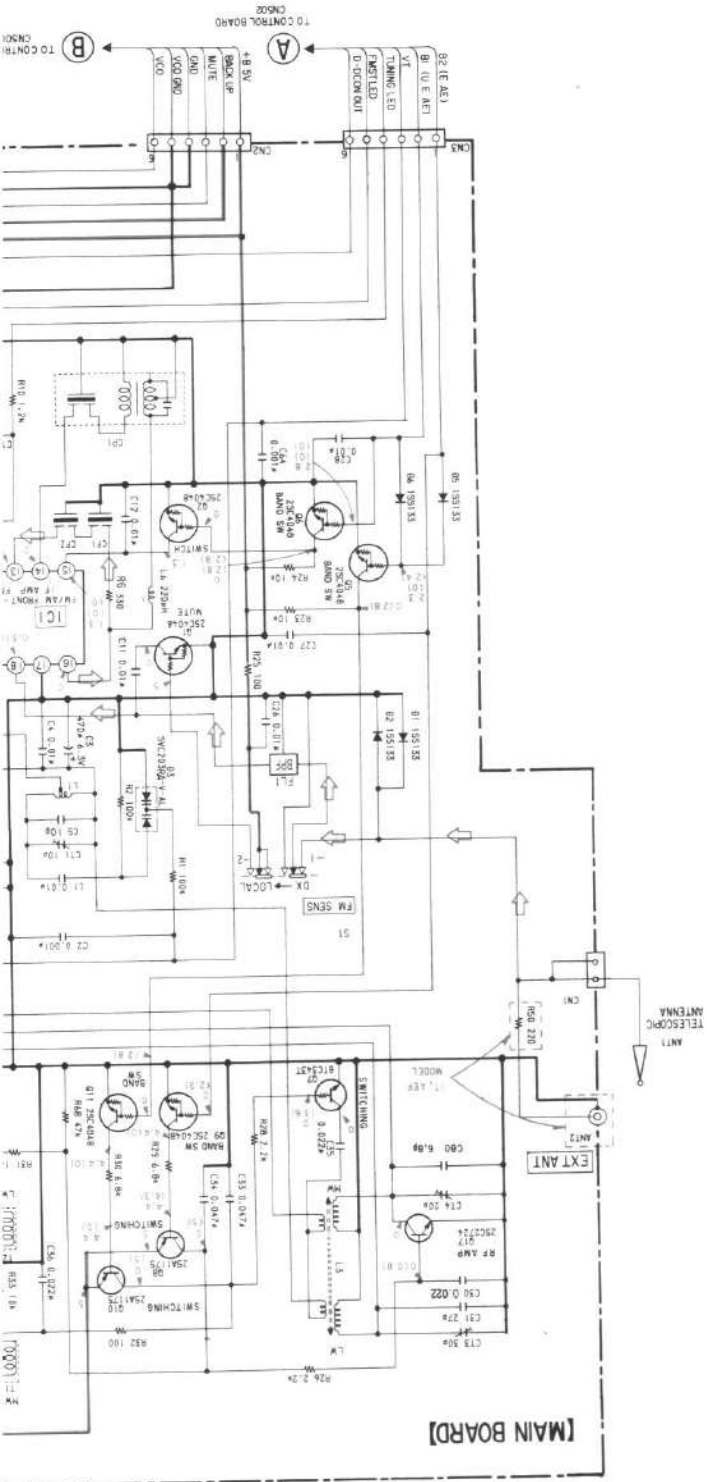
28

Note:

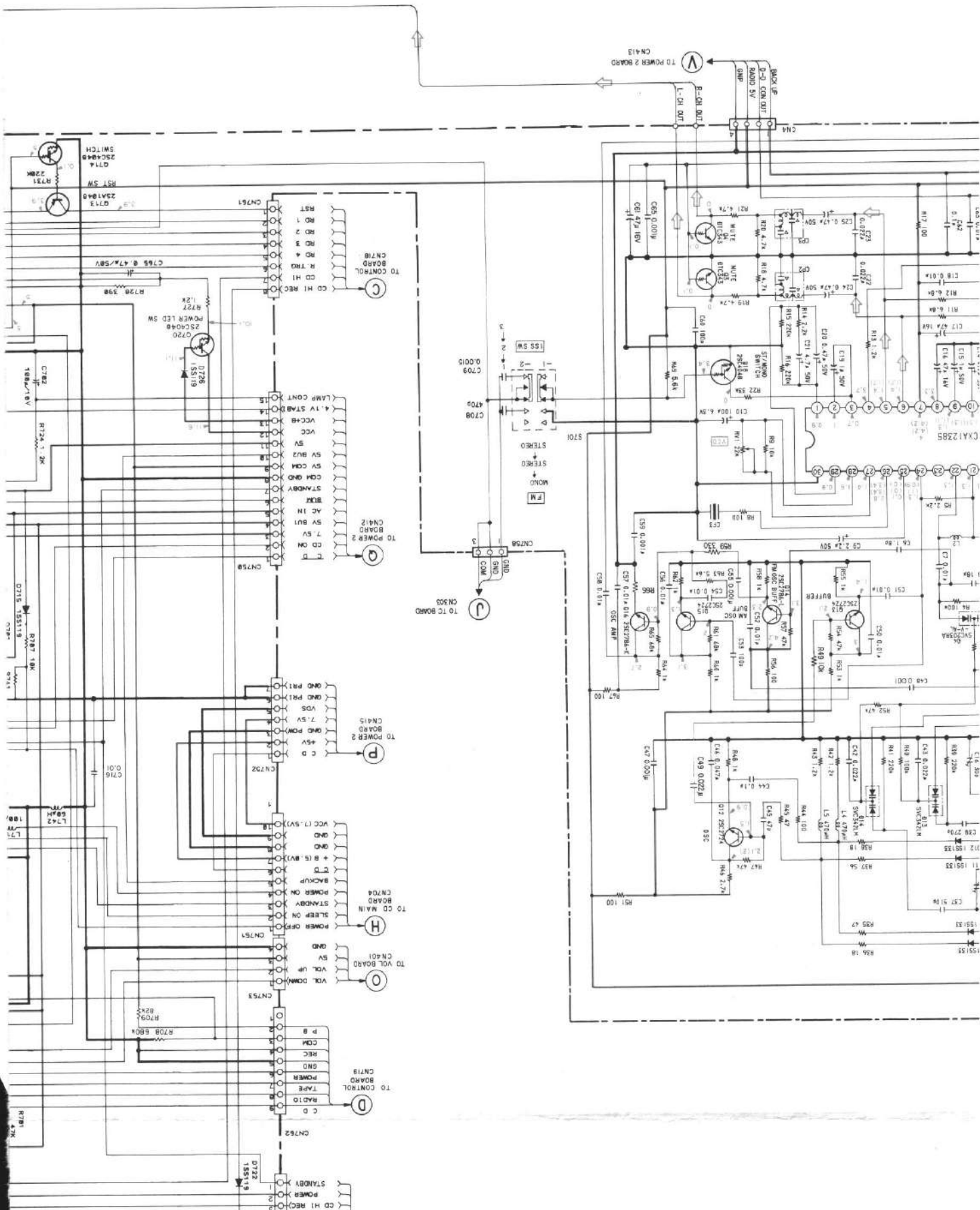
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.
- — : B + Line.
- \square : adjustment for repair.
- Power voltage is dc 12 V and fed with regulated dc power supply from external BATTERY TERMINAL.
- Voltages is dc with respect to ground under no-signal (detuned) conditions.
 - no mark : FM
 - () : MW
 - < > : LW
- Voltages are taken with a VOM (10 M Ω/V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
 - \Rightarrow : FM
 - \square : PB (DECK B)
 - \square : REC (DECK B)
- IT : Italian



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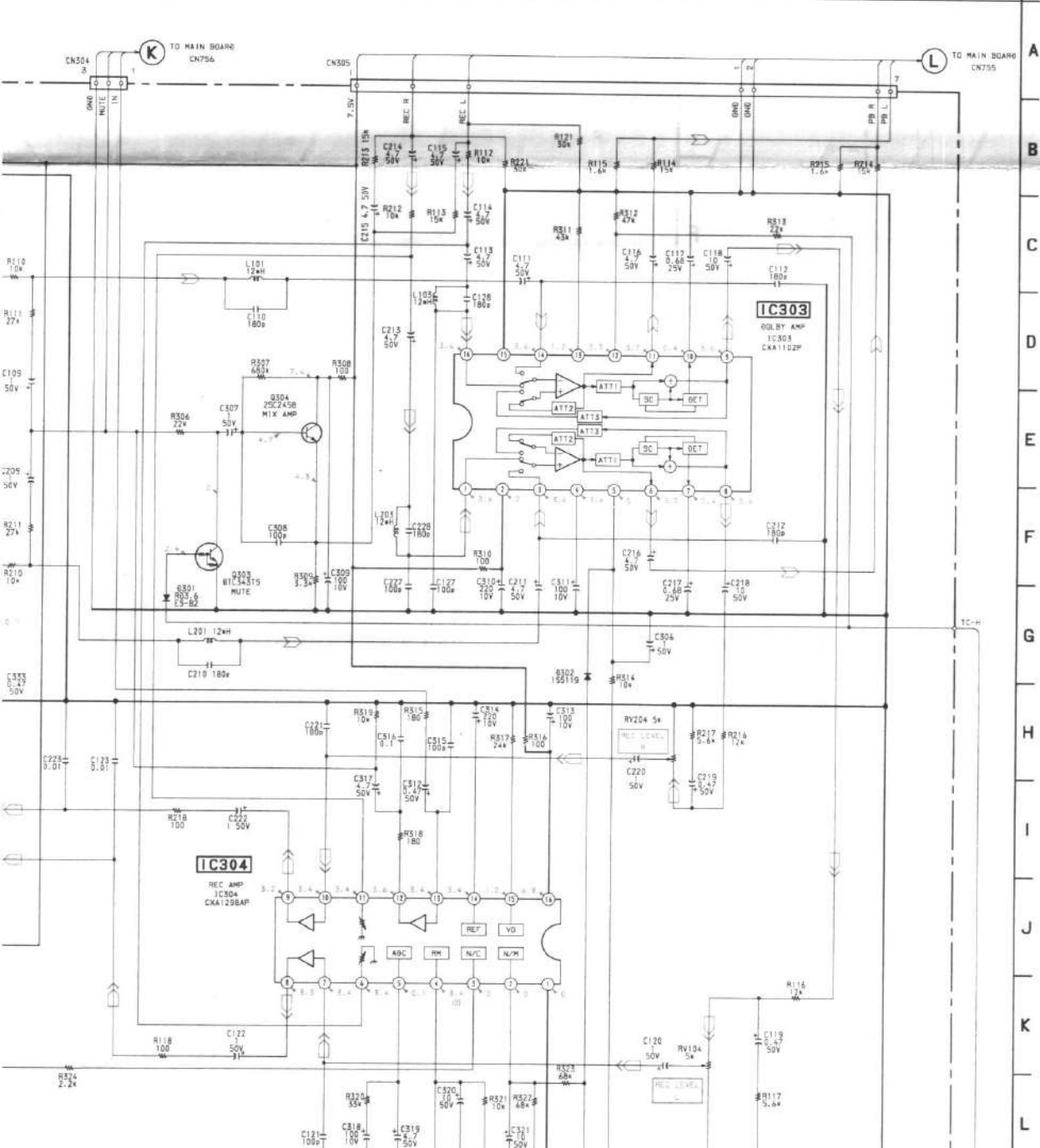


- Note:**
- All capacitors are in μF unless otherwise noted. pF: pF
 - 50 WV or less are not indicated except for electrolytics
 - All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
 - % : indicates tolerance.
 - Δ : internal component.
 - : B + Line.
 - : adjustment for repair.
 - Power voltage is dc 12 V and fed with regulated dc power supply from external BATTERY TERMINAL.
 - Voltages is dc with respect to ground under no-signal (detuned) conditions.
 - no mark : FM
 - () : MW
 - < : LW
 - Voltages are taken with a VOM (10 M Ω).
 - Voltage variations may be noted due to normal production tolerances.
 - Signal path:
 - ◁ : FM
 - ◁ ▷ : CD
 - ◁ ▷ : PB (DECK B)
 - ◁ ▷ : REC (DECK B)
 - IT : Italian



Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
C-2	Q631	C-4	Q651	H-4	Q690	F-3
C-2	Q632	C-4	Q652	H-4	Q691	F-3
C-2	Q633	D-4	Q653	G-5	Q692	F-2
B-3	Q634	H-1	Q654	G-4	Q693	F-3
B-4	Q635	H-2	Q655	H-4	Q694	G-3
A-3	Q636	F-1	Q656	D-4	Q695	F-3
A-3	Q637	G-1	Q657	E-2	Q696	H-3
D-7	Q638	C-4	Q658	C-3	Q697	G-3
C-8	Q639	C-4	Q659	A-4	Q698	H-3
C-8	Q640	C-3	Q660	A-4	Q699	H-3
C-9	Q641	C-3	Q661	B-2		
C-8	Q642	D-4	Q662	C-8		
C-9	Q643	D-5	Q663	G-3		
D-8	Q644	D-5	Q664	H-3		
E-4	Q645	D-5	Q665	D-3		
E-3	Q646	E-9	Q666	D-3		
D-3	Q647	D-9	Q667	D-1		
D-3	Q648	D-9	Q668	B-7		
C-3	Q649	D-9	Q670	C-2		
D-3	Q650	D-8	Q671	C-3		

40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49

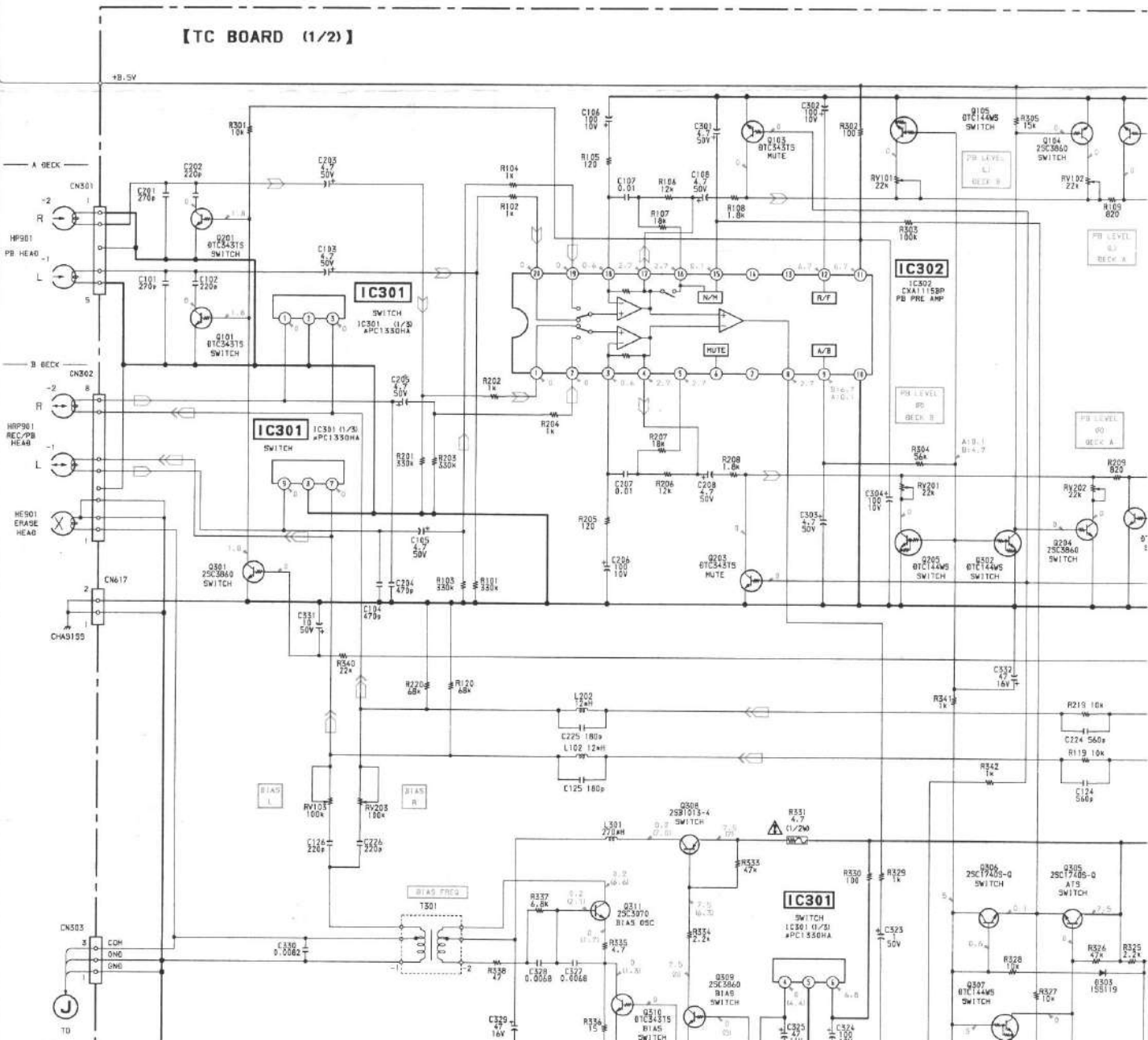


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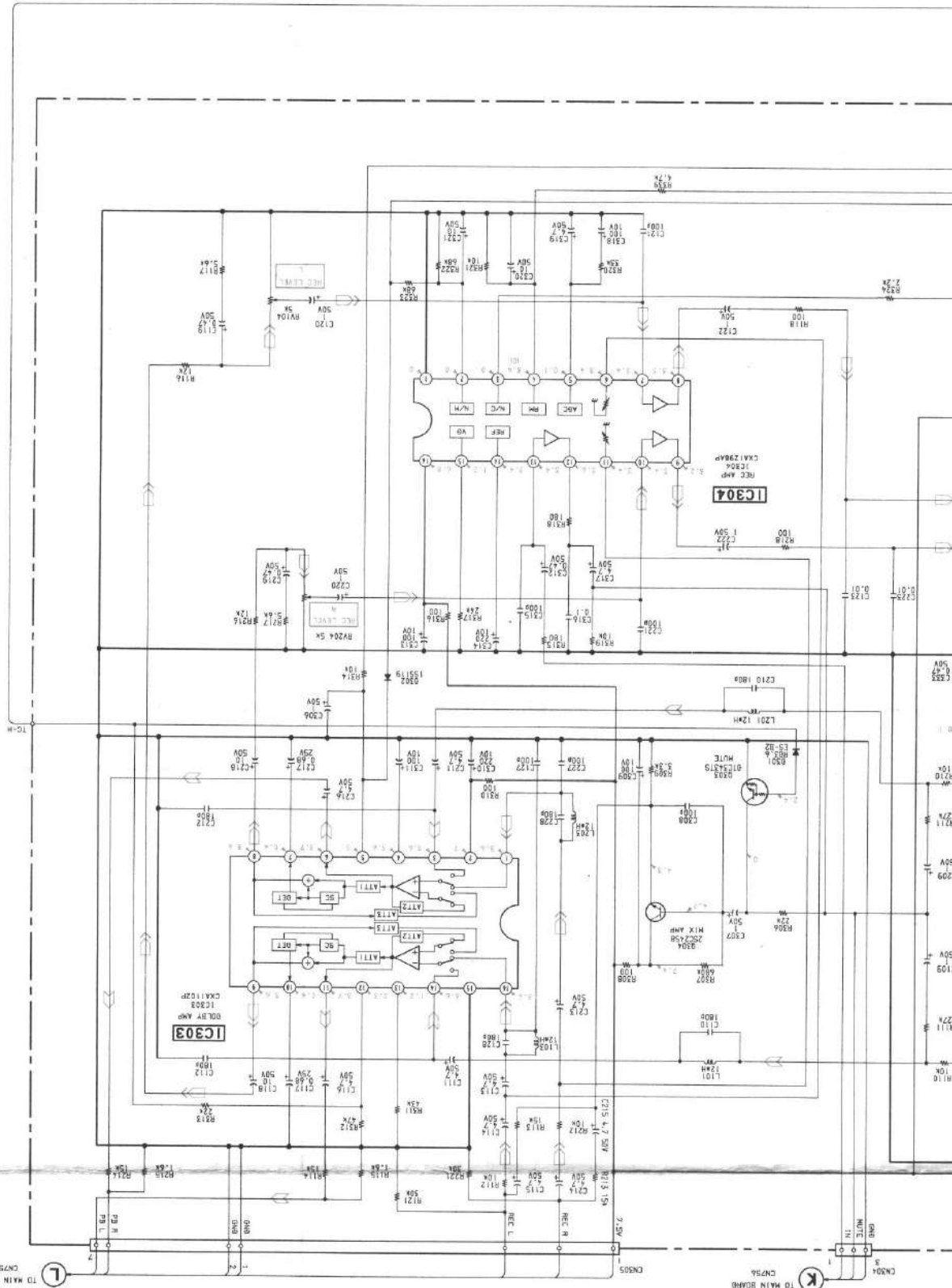
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	D-13	D618	C-7	D639	C-4	D660	J-3	IC301	A-11	Q302	B-13	Q303	D-13
D302	C-13	D619	C-7	D640	C-5	D661	J-4	IC302	B-13	Q304	C-12	Q305	B-10
D303	B-10	D620	E-7	D641	B-4	D662	J-2	IC303	E-14	Q306	B-10	Q307	B-9
D601	E-2	D621	E-4	D642	C-8	D663	J-2	IC304	D-11	Q308	B-9	Q309	B-9
D602	D-2	D622	E-4	D643	D-2	D664	I-2	IC601	B-6	Q310	B-8	Q311	B-8
D603	C-2	D623	E-4	D644	E-2	D665	I-2	IC602	D-9	Q601	E-3	Q602	D-2
D604	D-2	D624	E-4	D645	D-4	D670	B-2	IC603	A-2	Q603	E-1	Q604	D-2
D605	C-4	D626	D-3	D646	F-4	D671	B-3	IC604	G-3	Q605	E-2	Q606	D-2
D606	C-2	D627	D-3	D647	F-2	D672	B-1	Q101	B-12	Q607	D-2	Q608	C-2
D607	C-2	D628	H-1	D648	G-3	D673	E-3	Q103	B-14	Q609	D-2	Q610	C-2
D608	A-4	D629	H-1	D650	I-4	D674	F-4	Q104	B-13				
D609	A-3	D630	G-2	D651	I-4	D675	F-4	Q105	B-14				
D610	B-2	D631	G-2	D652	I-4	D681	G-8	Q106	B-14				
D611	B-3	D632	E-7	D653	I-3	D691	I-8	Q201	B-11				
D612	E-4	D633	E-7	D654	I-3	D696	B-7	Q203	B-14				
D613	G-5	D634	D-10	D655	I-3	D697	A-7	Q204	B-13				
D614	C-7	D635	E-10	D656	K-3	D698	A-7	Q205	B-14				
D615	D-7	D636	D-9	D657	J-4	D699	A-7	Q301	C-12				
D616	H-5	D637	D-9	D658	J-4								
D617	C-9	D638	D-3	D659	J-3								

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TO MAIN BOARD

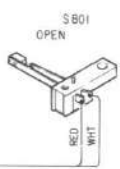
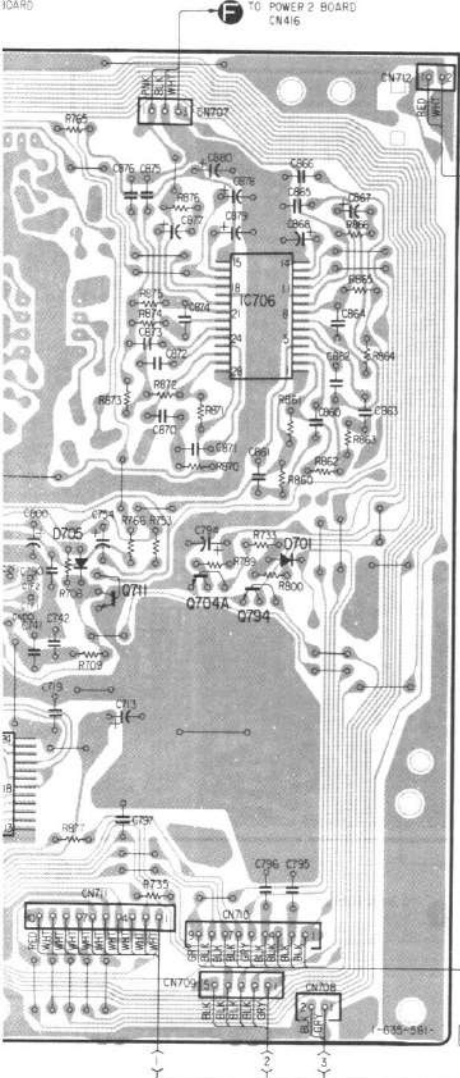
L

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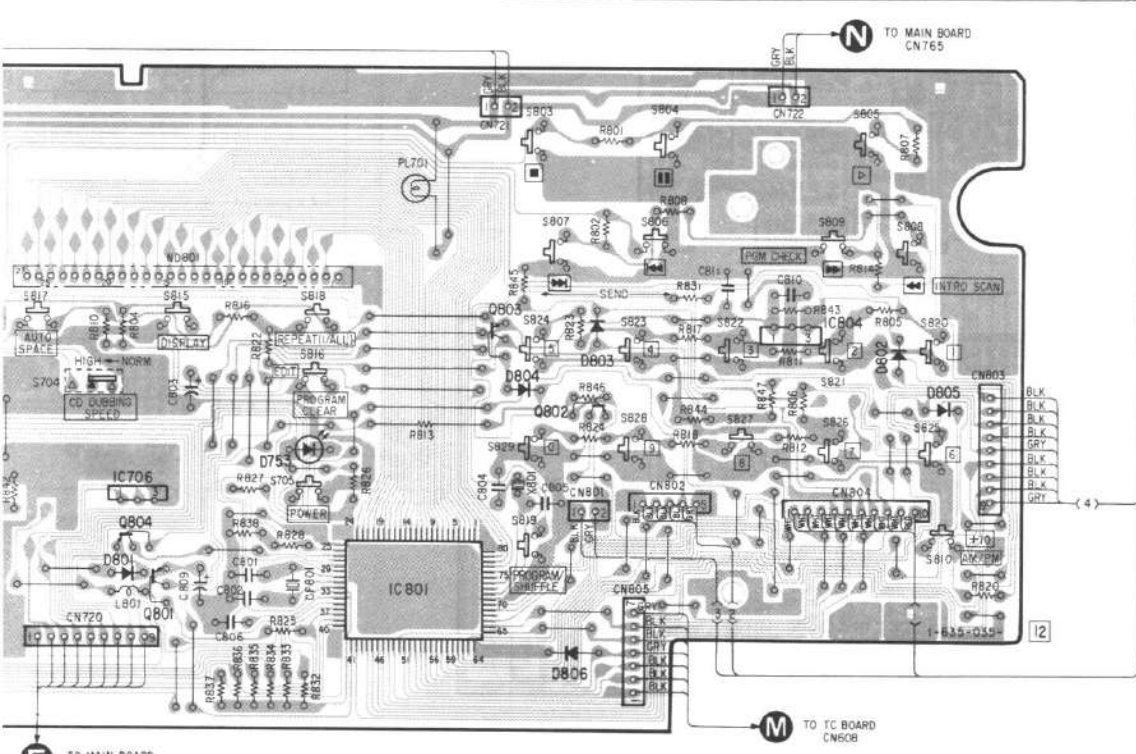
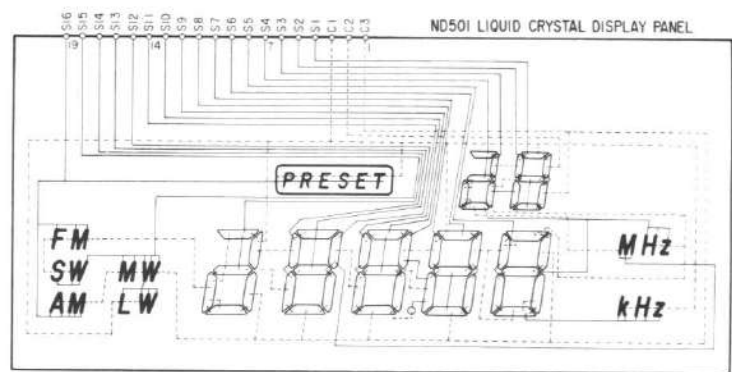
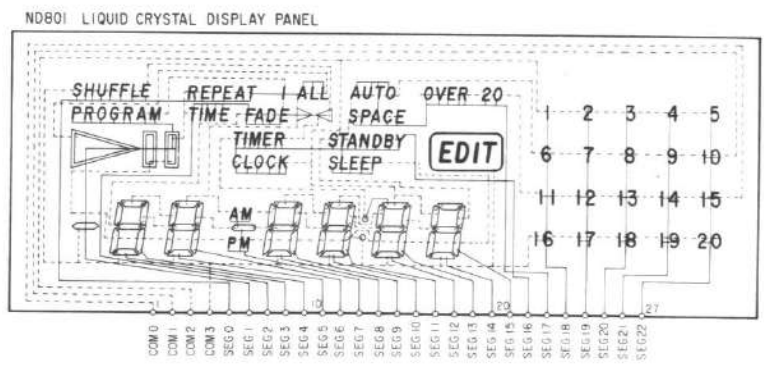
TO MAIN BOARD

50V

2.5V



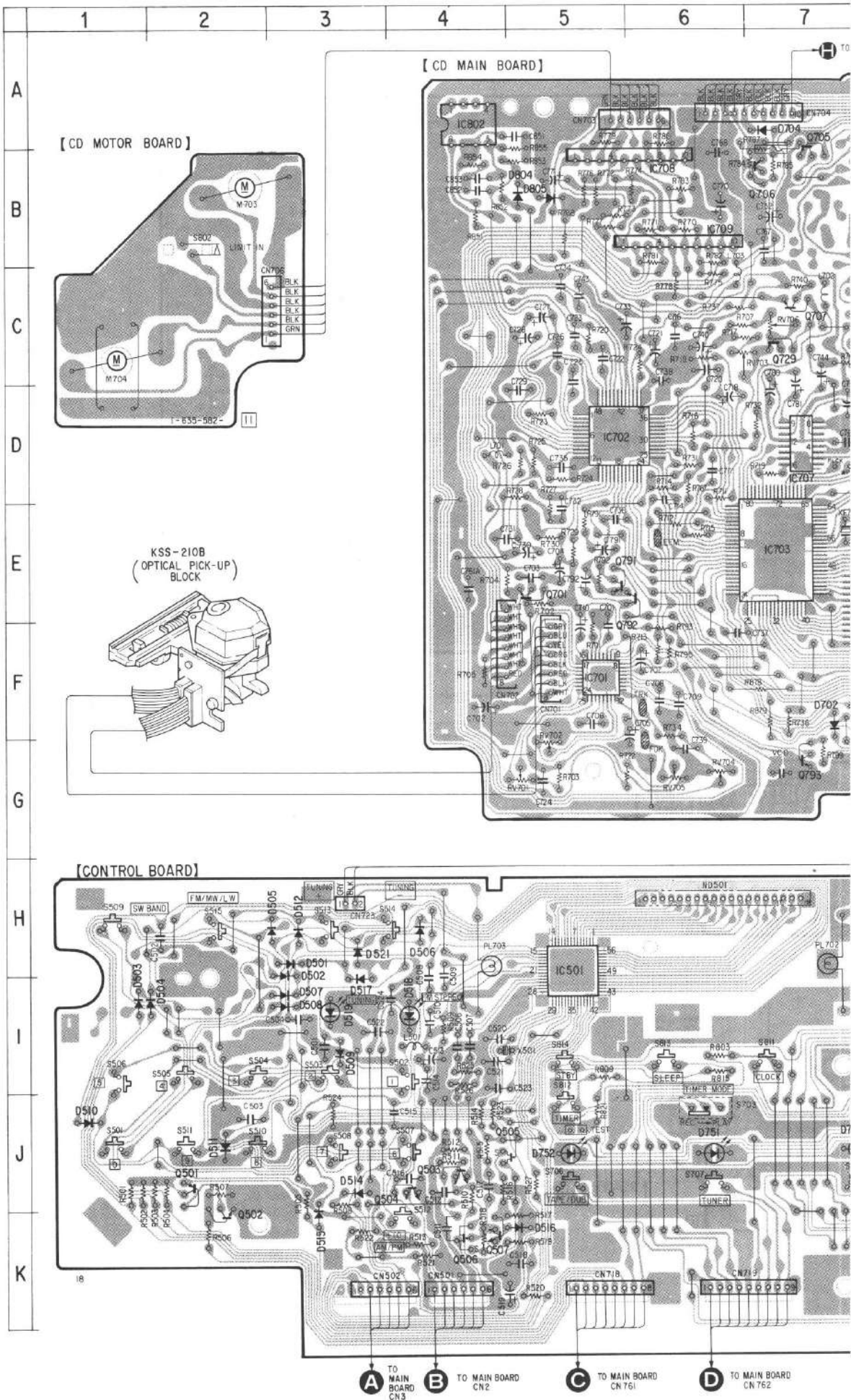
Note:
● ○ : parts extracted from the component side.

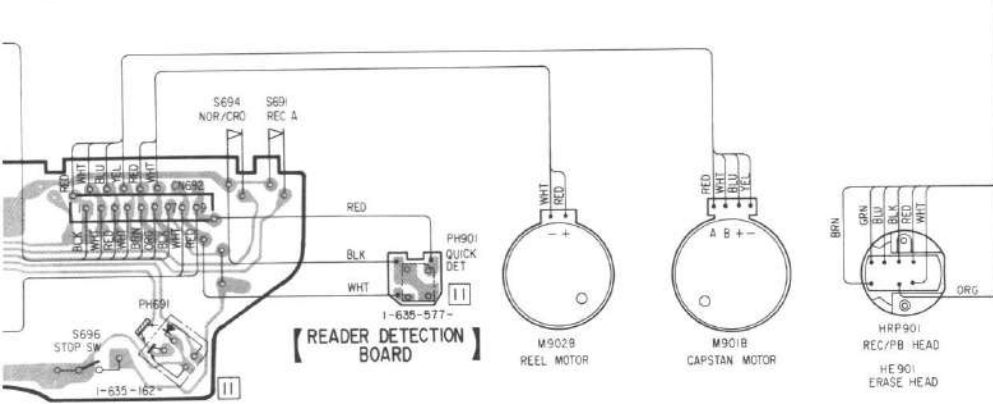
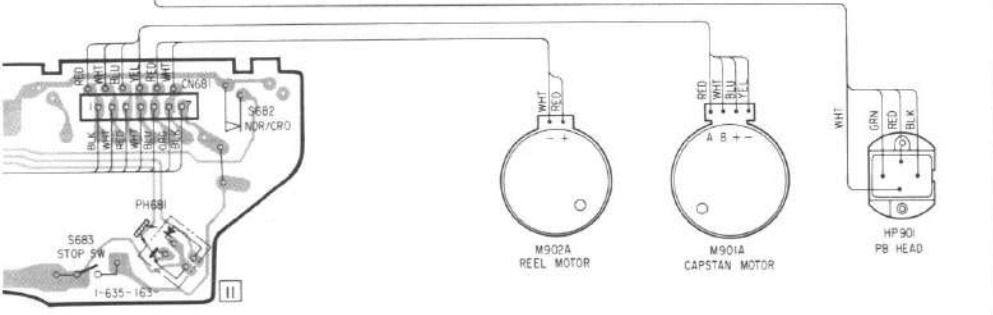
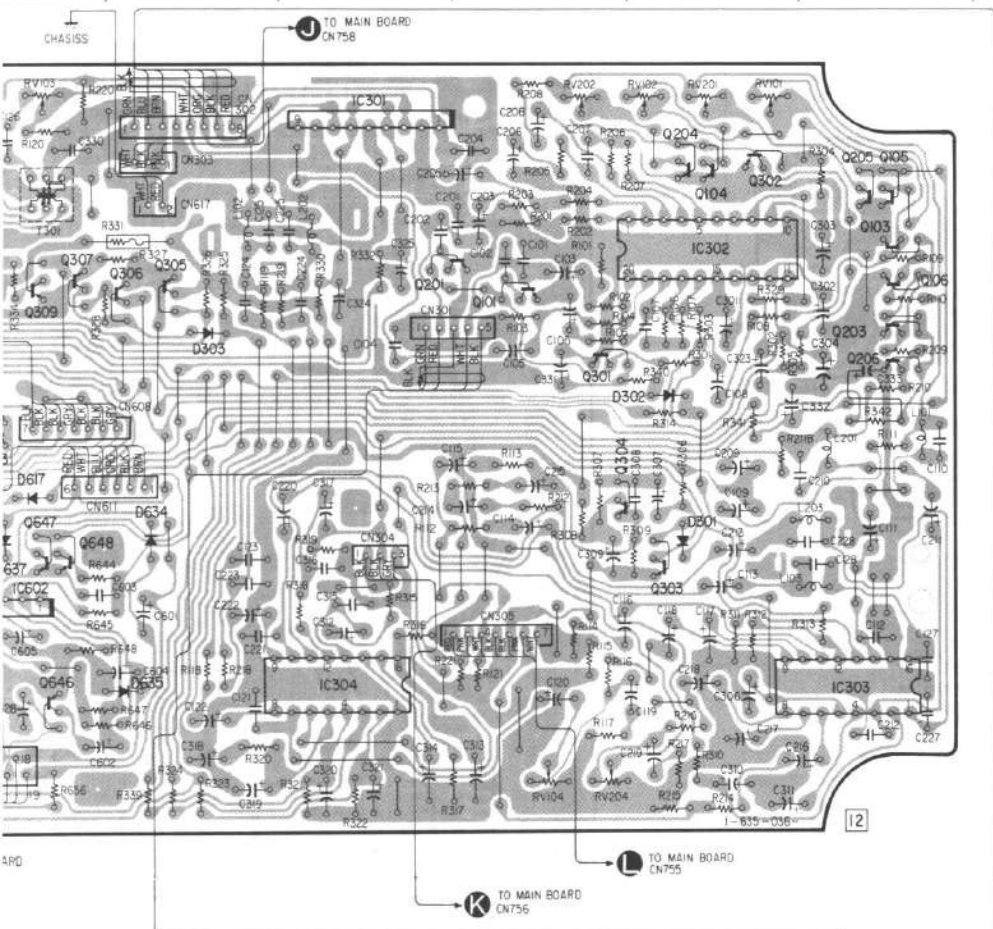


• Semiconductor Location

Ref. No.	Location
D501	H-3
D502	H-3
D503	I-1
D504	I-2
D505	H-4
D506	H-4
D507	I-3
D508	I-3
D509	I-3
D510	J-1
D511	J-2
D512	H-3
D514	J-3
D515	K-3
D516	K-4
D517	I-3
D518	I-4
D519	I-3
D521	H-3
D701	D-9
D702	F-7
D704	A-7
D705	D-8
D750	J-7
D751	J-6
D752	J-5
D753	J-10
D801	K-8
D802	I-13
D803	I-11
* D804	J-11
D804	B-5
* D805	J-13
D805	B-5
D806	K-11
IC501	H-5
IC701	F-5
IC702	D-5
IC703	E-7
IC704	E-8
* IC706	J-9
IC708	C-9
IC707	D-7
IC708	B-6
IC709	B-6
IC801	K-10
IC802	A-4
IC804	I-13
Q501	J-2
Q502	J-2
Q503	J-4
Q504	J-4
Q505	J-4
Q506	K-4
Q507	K-4
Q701	E-5
Q704	D-9
Q705	A-7
Q706	B-7
Q707	C-7
Q711	D-8
Q729	C-7
Q791	E-5
Q792	E-6
Q793	G-7
Q794	D-9
Q801	K-9
Q802	J-11
Q803	I-11
Q804	K-9

* : CONTROL BOARD

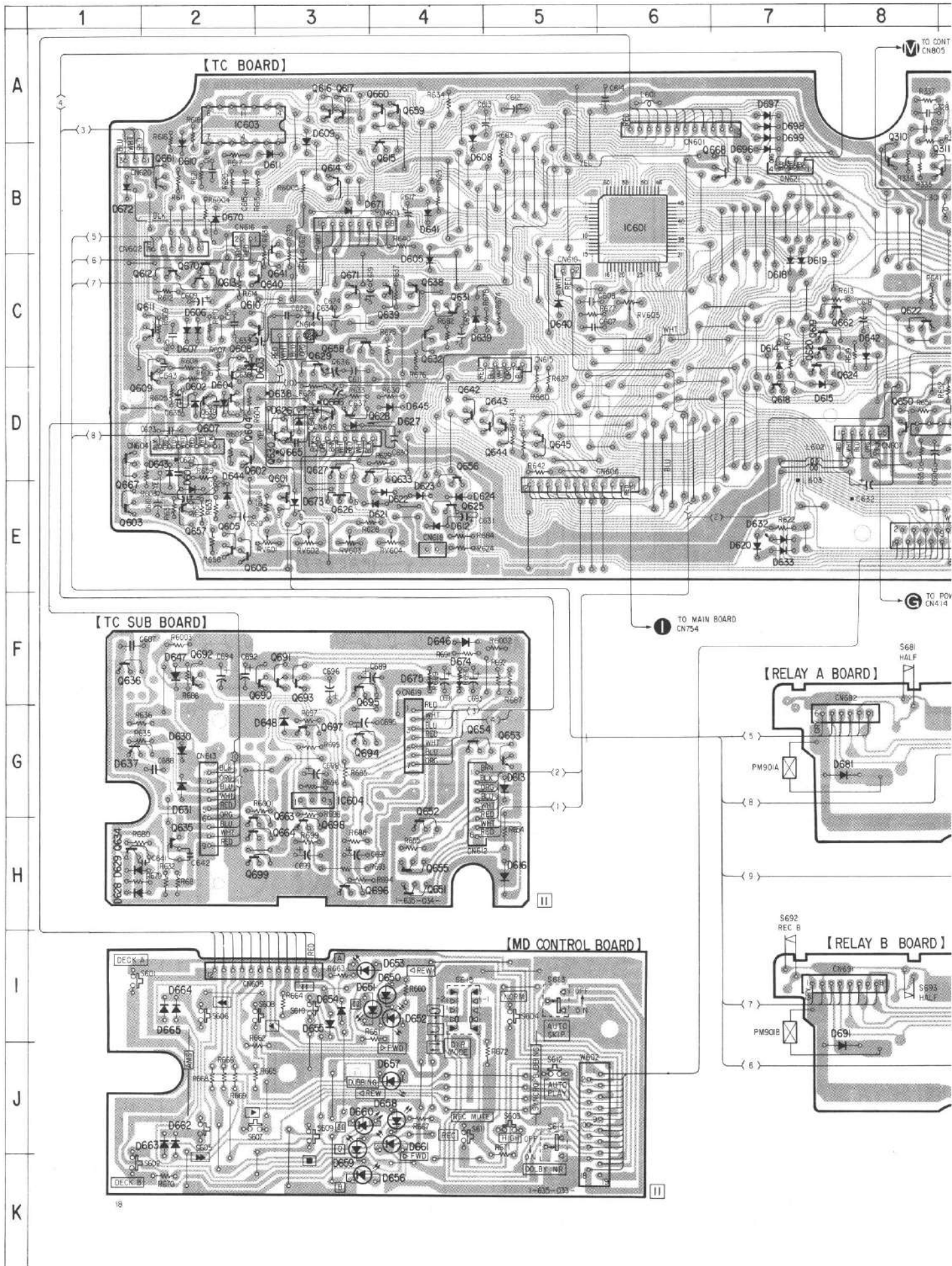




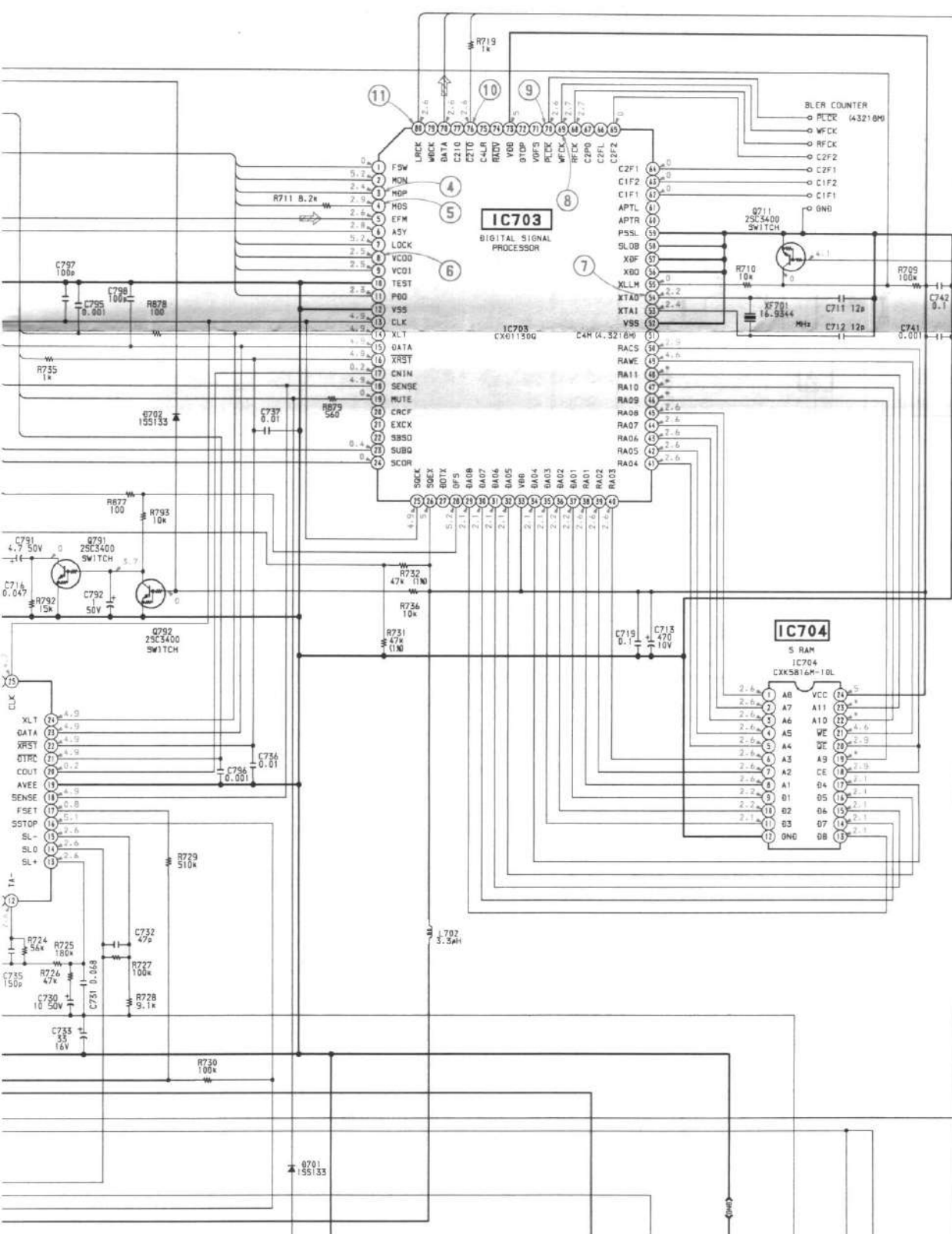
READER DETECTION BOARD

Note:

- — : parts extracted from the component side.
- ■ : parts mounted on the conductor side.

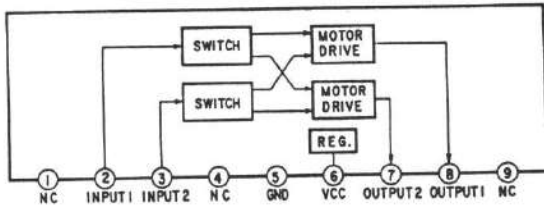


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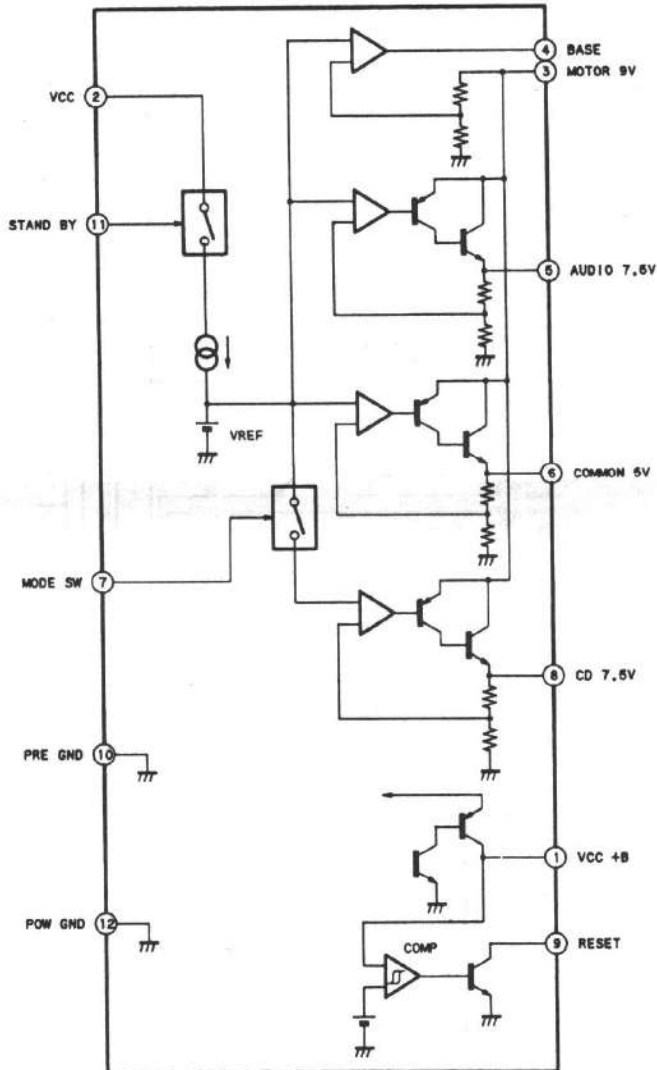


6-7. POWER BLOCK SCHEMATIC DIAGRAM

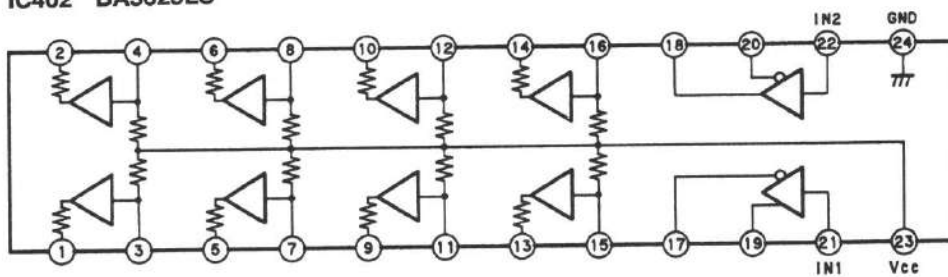
• IC Block Diagram IC401 BA6208



IC404 BA3924

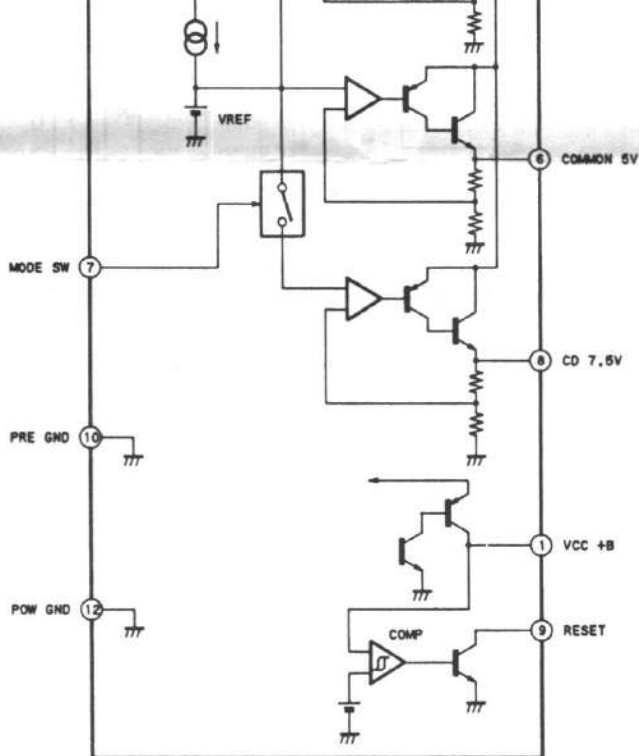


IC402 BA3823LS

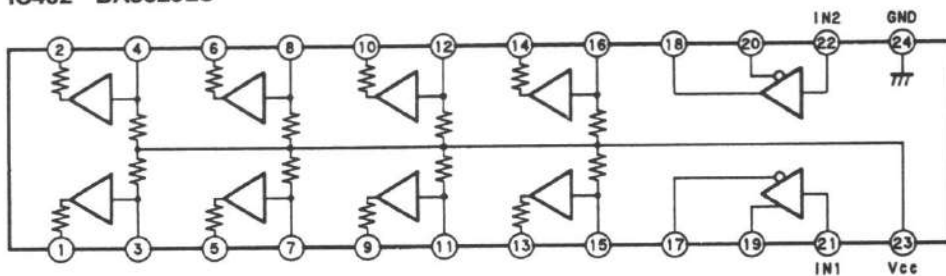


Note:



- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.






IC402 BA3823LS

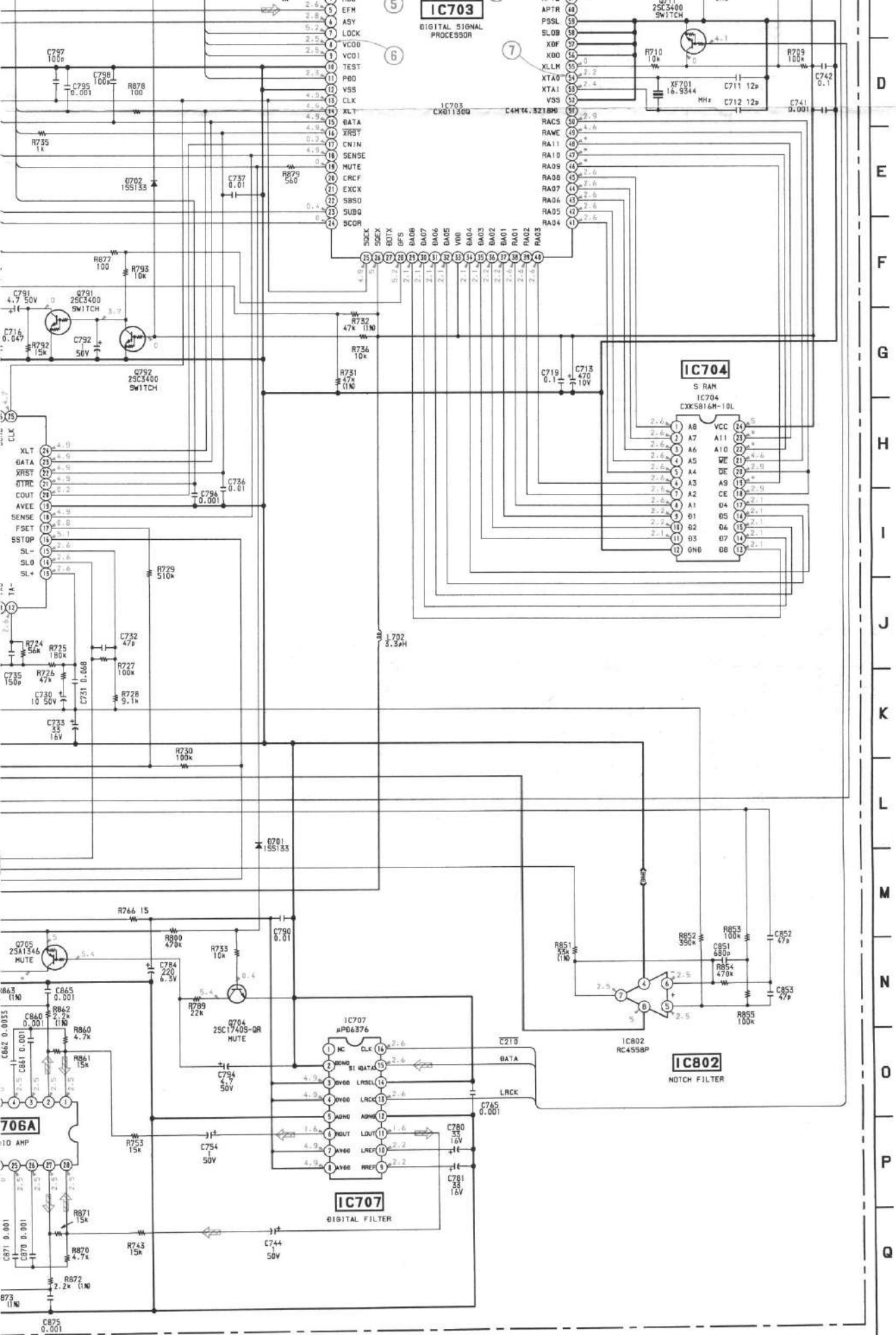


Note:

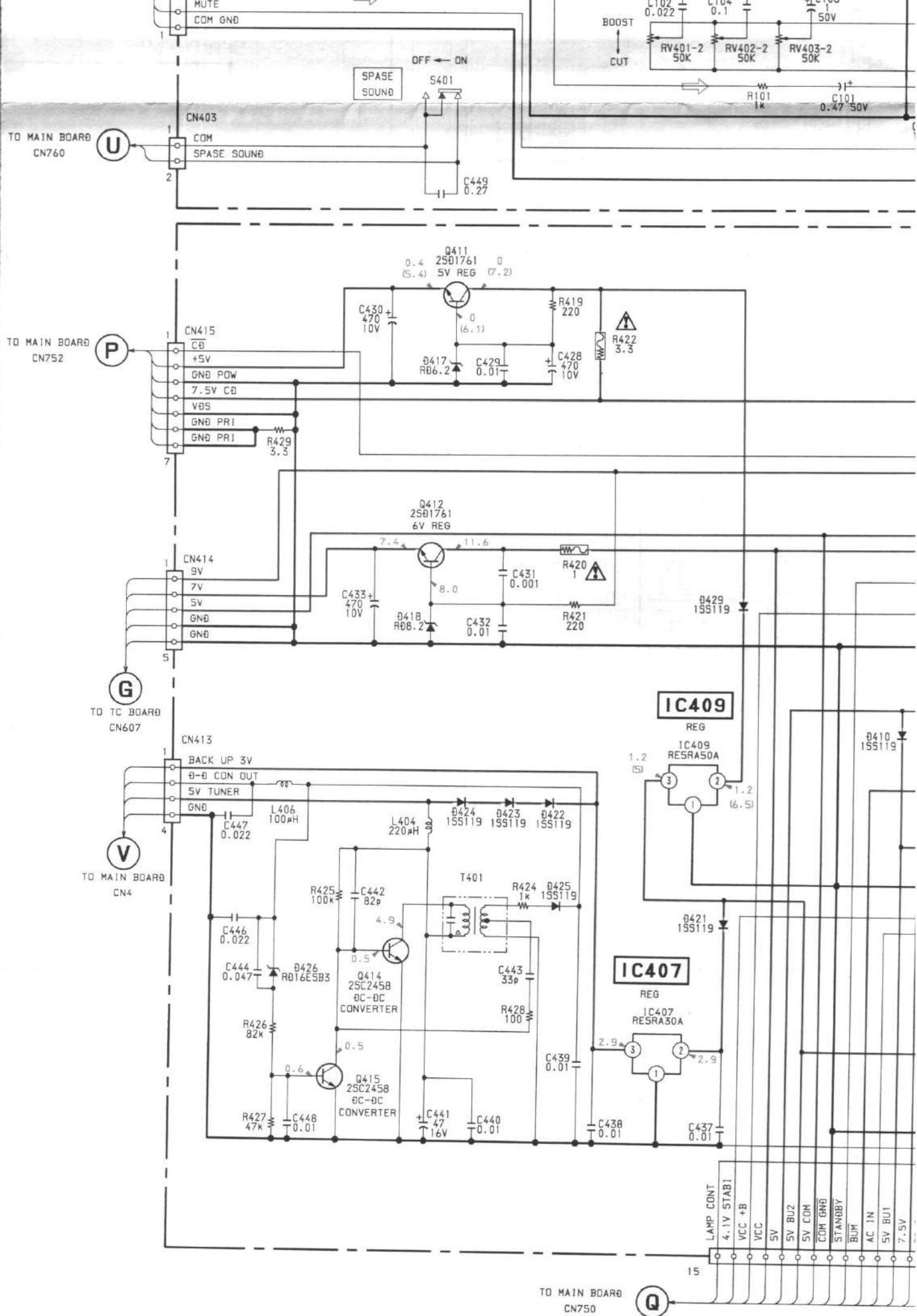
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- % : indicates tolerance.
-  : nonflammable resistor.
-  : fusible resistor.

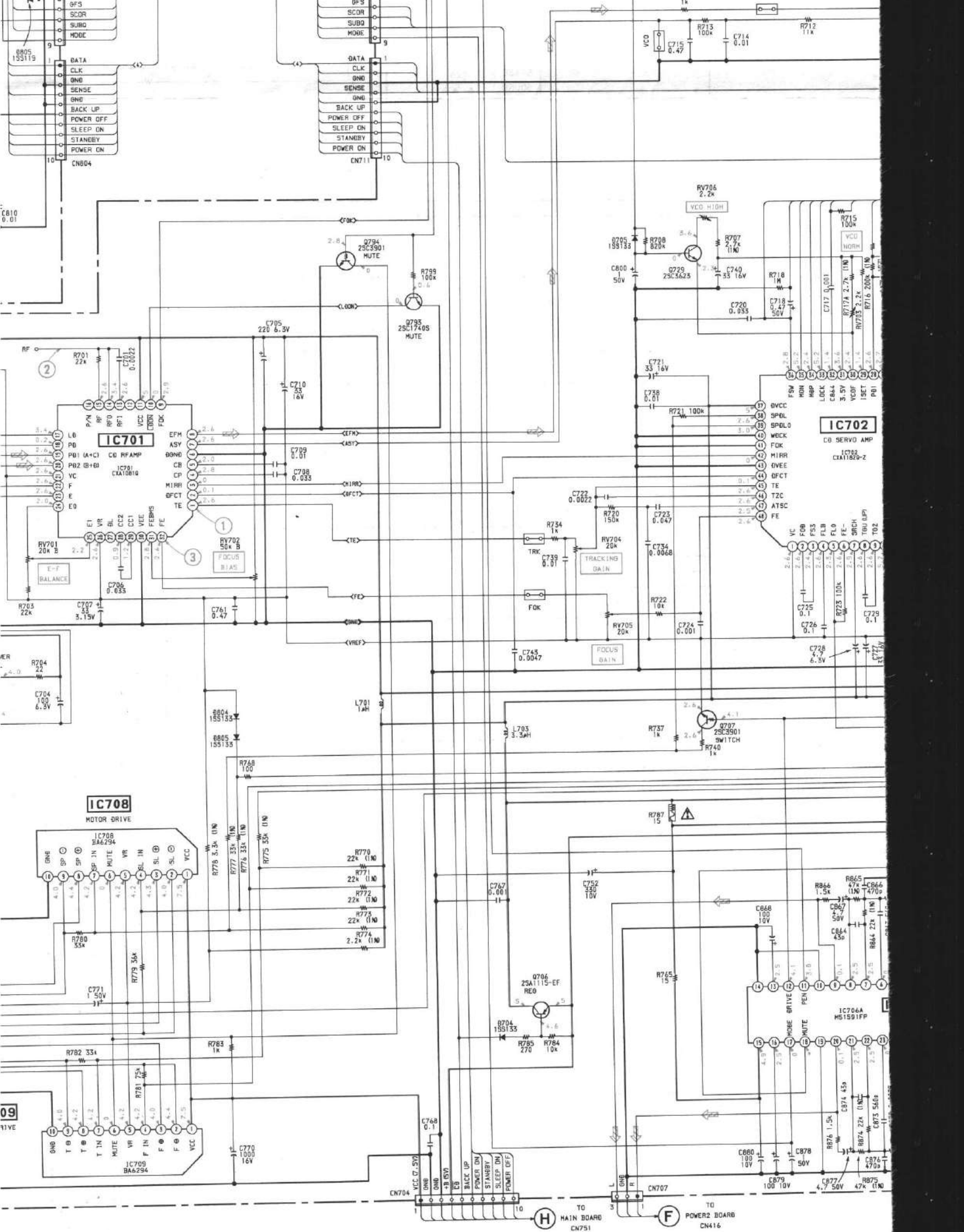
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

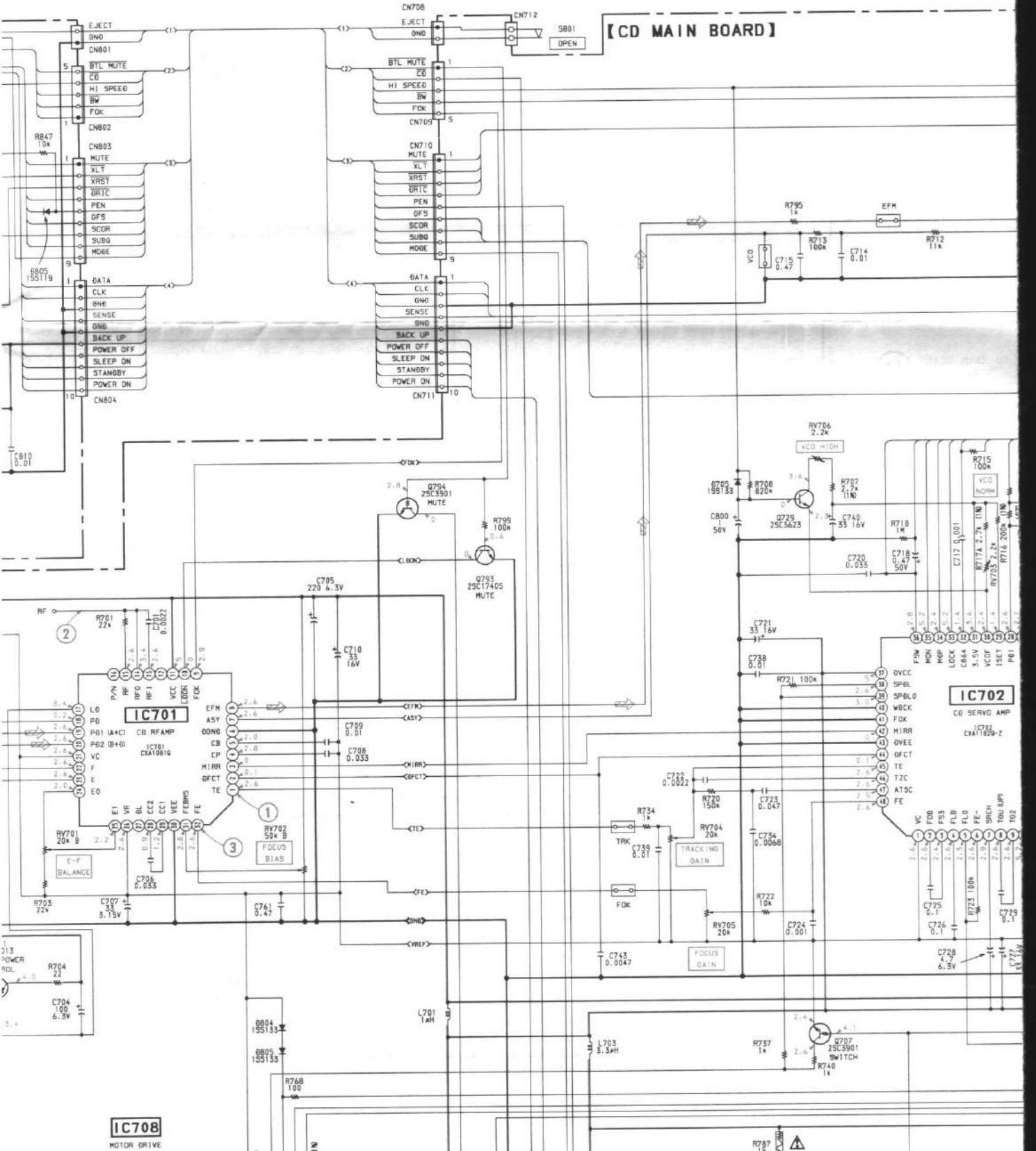
-  : B + Line.
- Power voltage is dc 12 V and fed with regulated dc power supply from external BATTERY TERMINAL.
- Voltages is dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : CD
- Voltages are taken with a VOM (10 M Ω /V).
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : FM  : CD



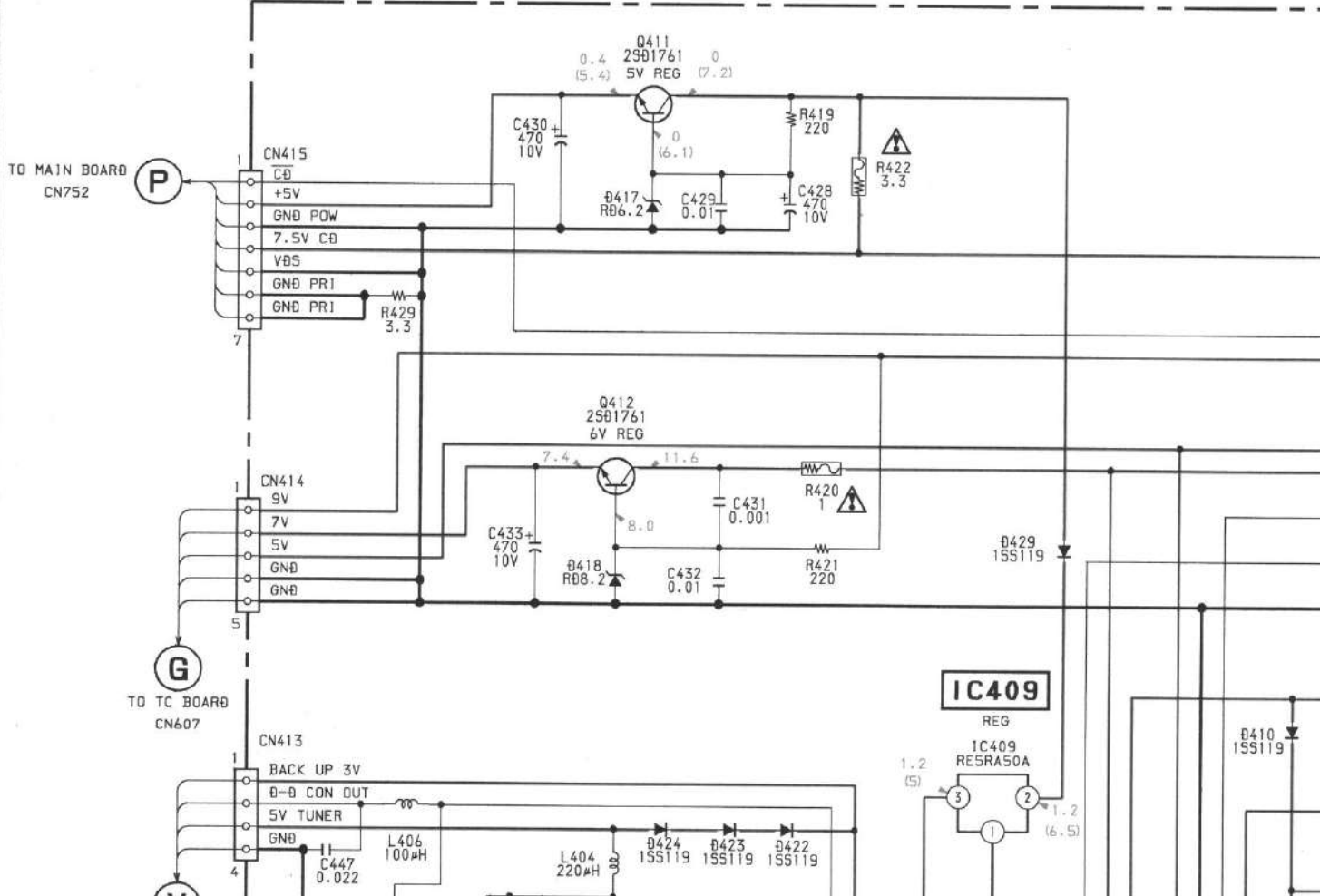
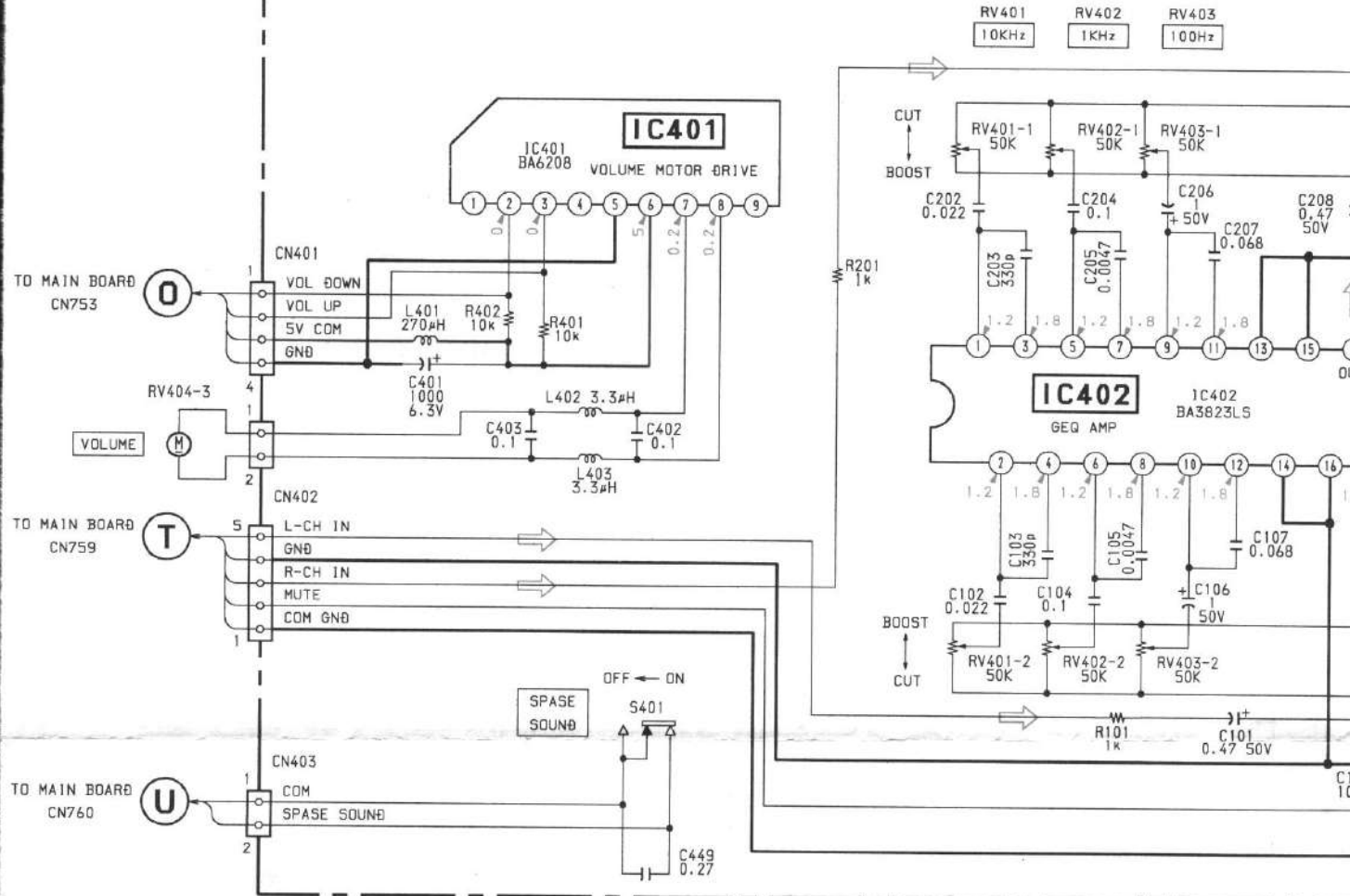
D
E
F
G
H
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O
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Q

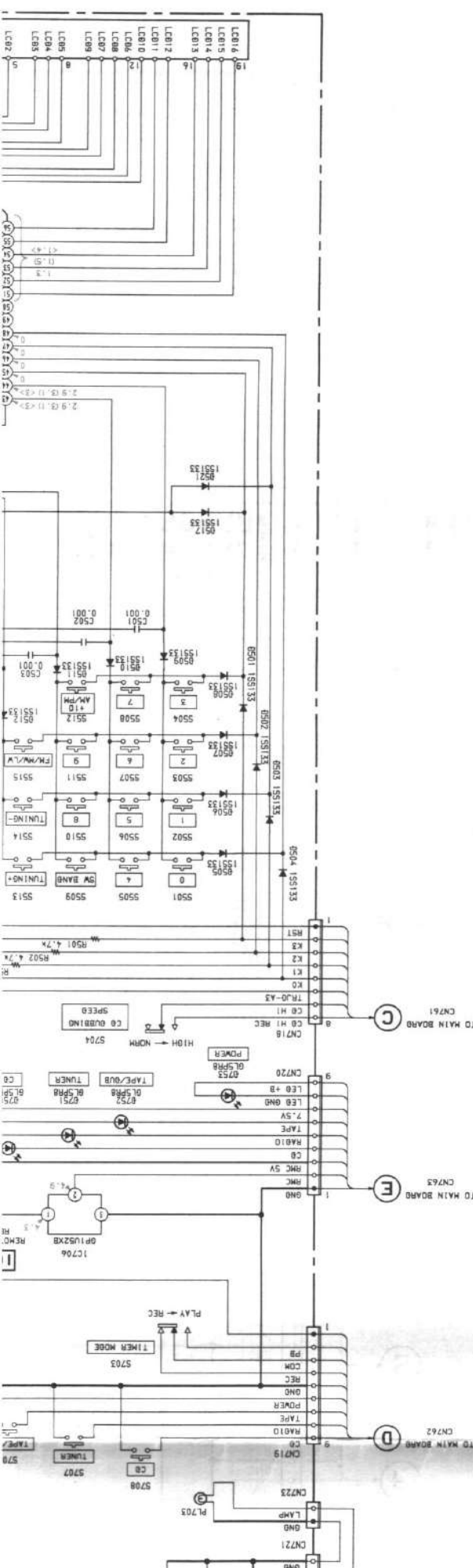






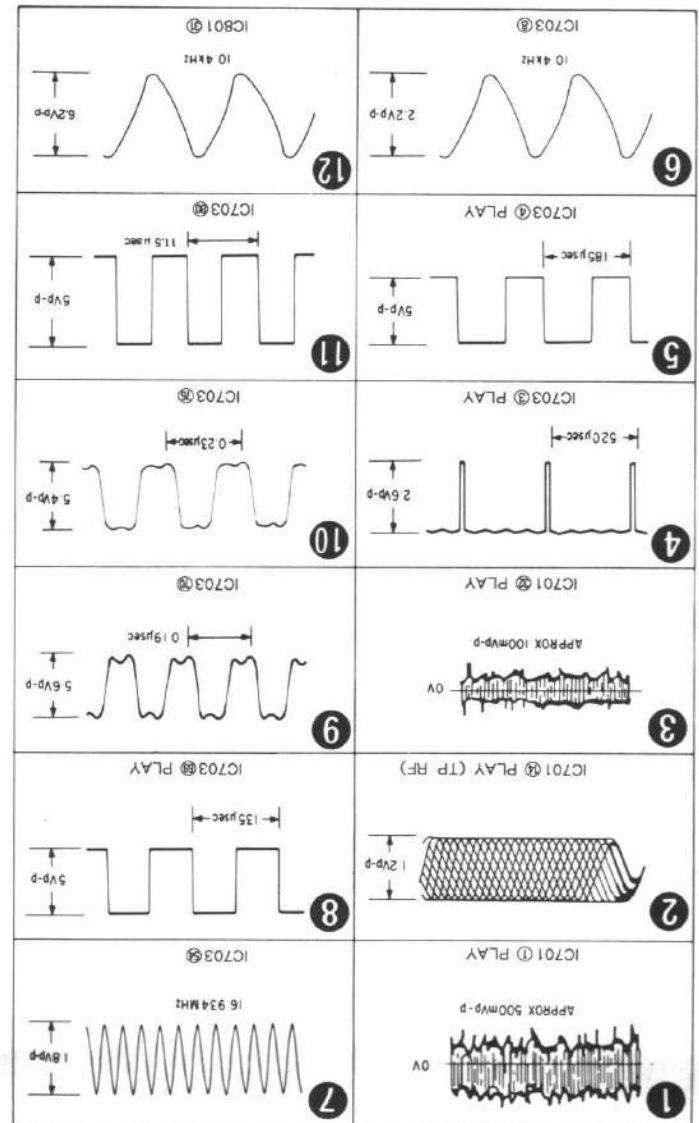
[VOL BOARD] (1/2)





C D E F G H I J K L M N O P Q

• WAVEFORMS

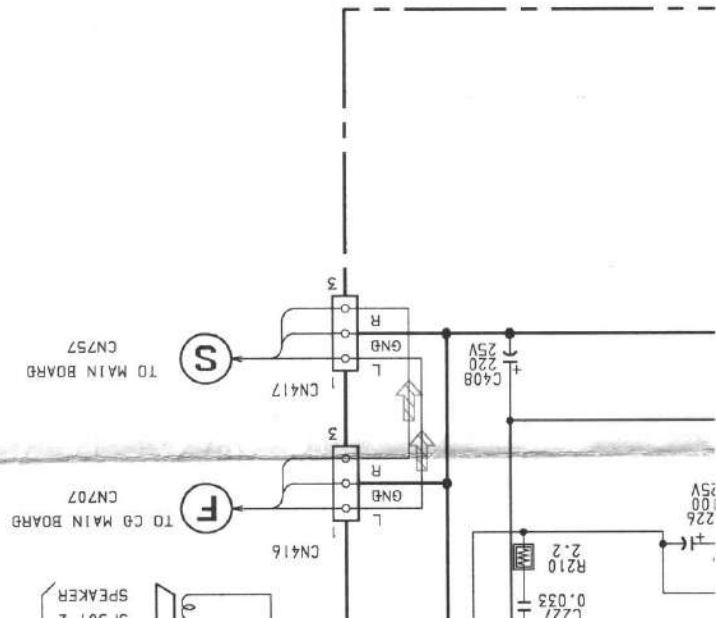
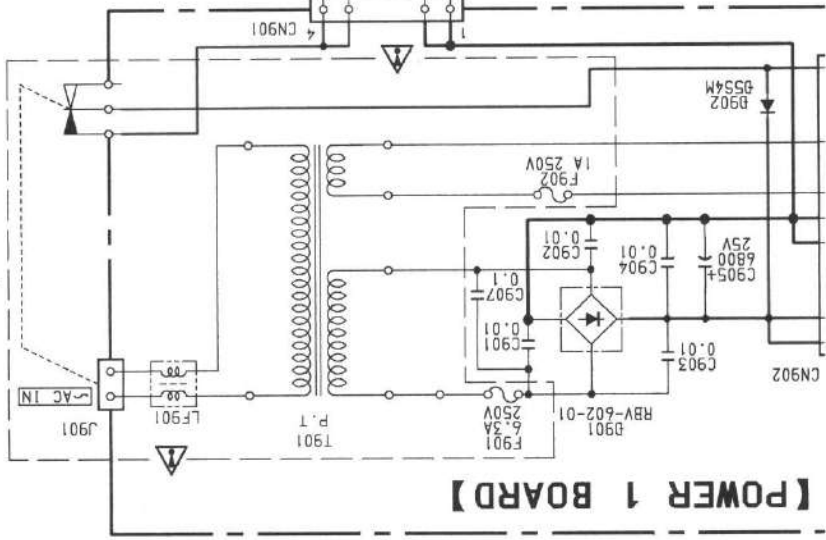
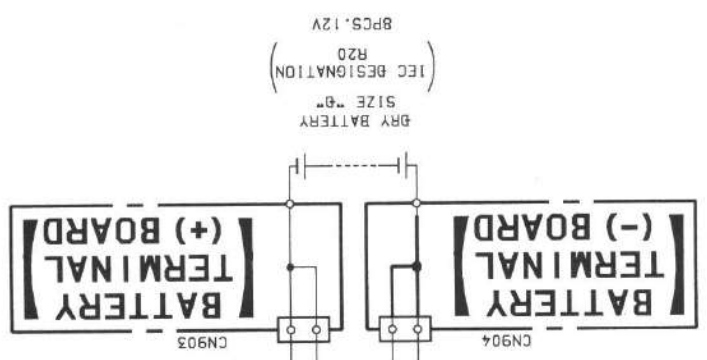
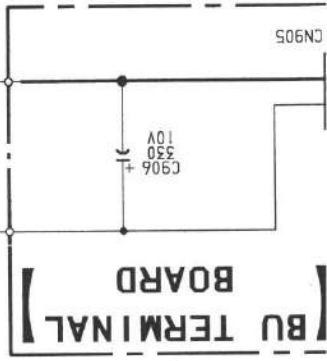


- Note:
- All capacitors are in μF unless otherwise noted. pF: pF
 - 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{2}$ W or less unless otherwise specified.
 - % indicates tolerance.
 - \sim : fusible resistor.

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

- Power voltage is dc 12 V and fed with regulated dc power supply from external BATTERY TERMINAL.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM or CD
- * Impossible to measure the voltage at the marked points.
- Voltages are taken with a VOM (10 M Ω /V).
- 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.
- Signal path.
- CD

N
M
L
K
J
I
H
G
F
E



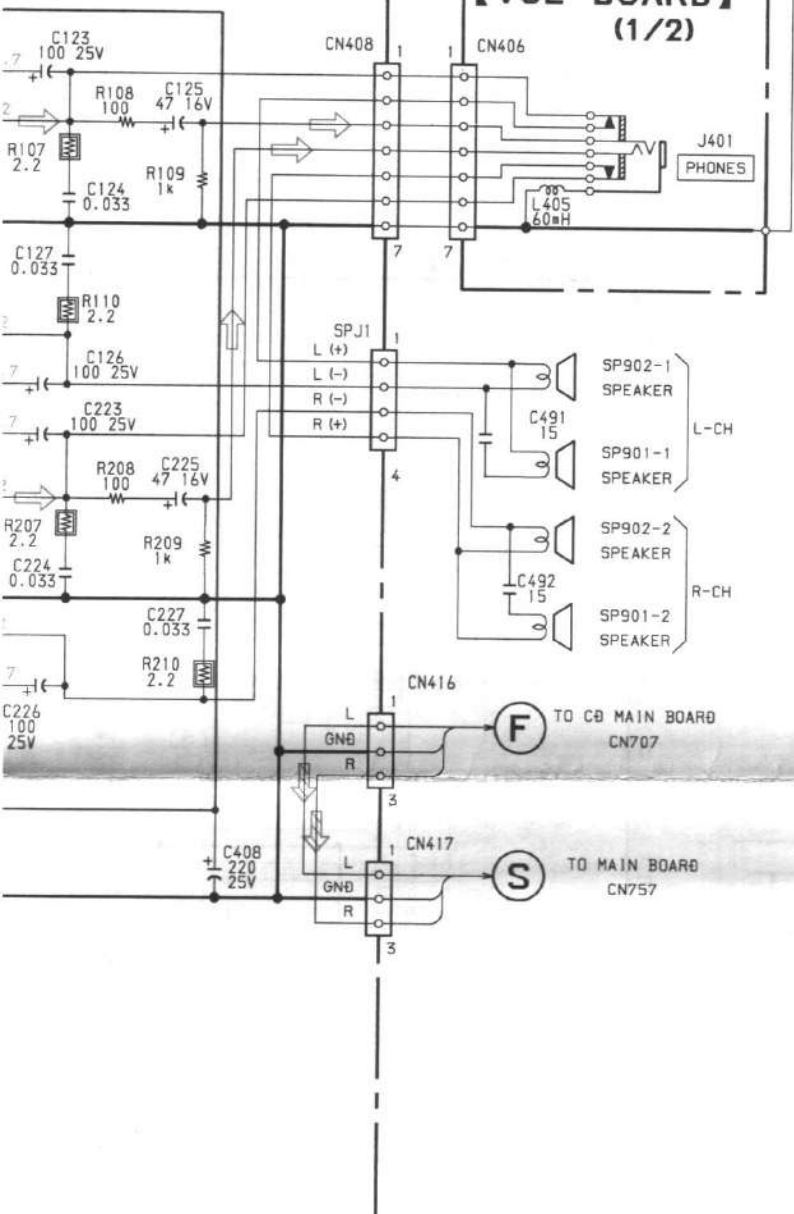
16

17

18

19

**【VOL BOARD】
(1/2)**



A

B

C

D

E

F

G

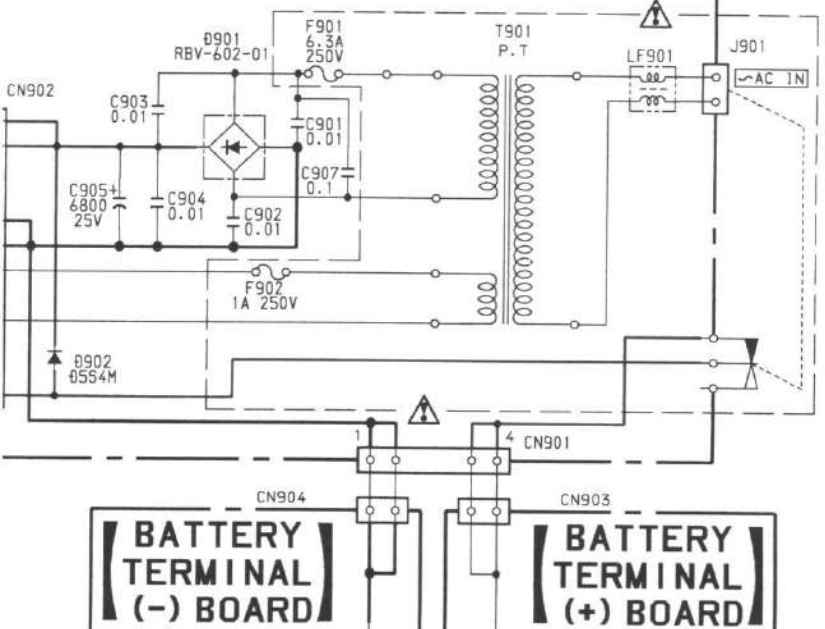
H

I

J

K

【POWER 1 BOARD】

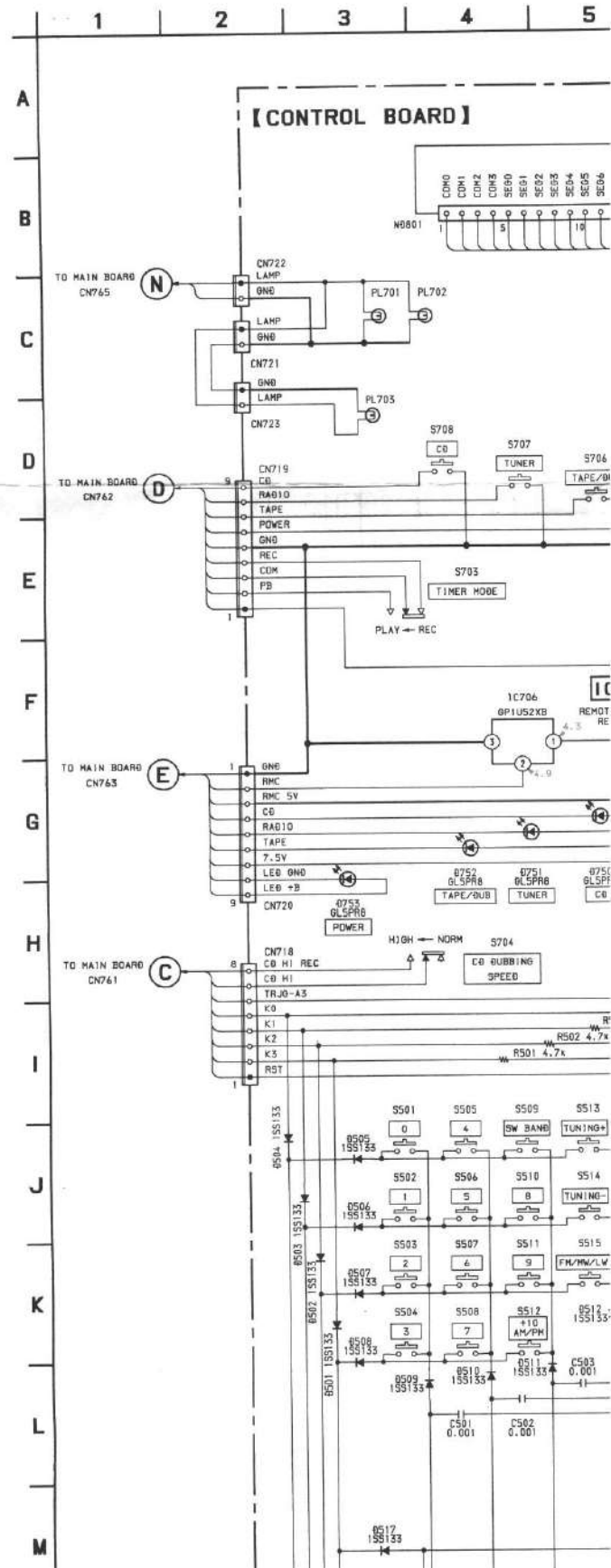
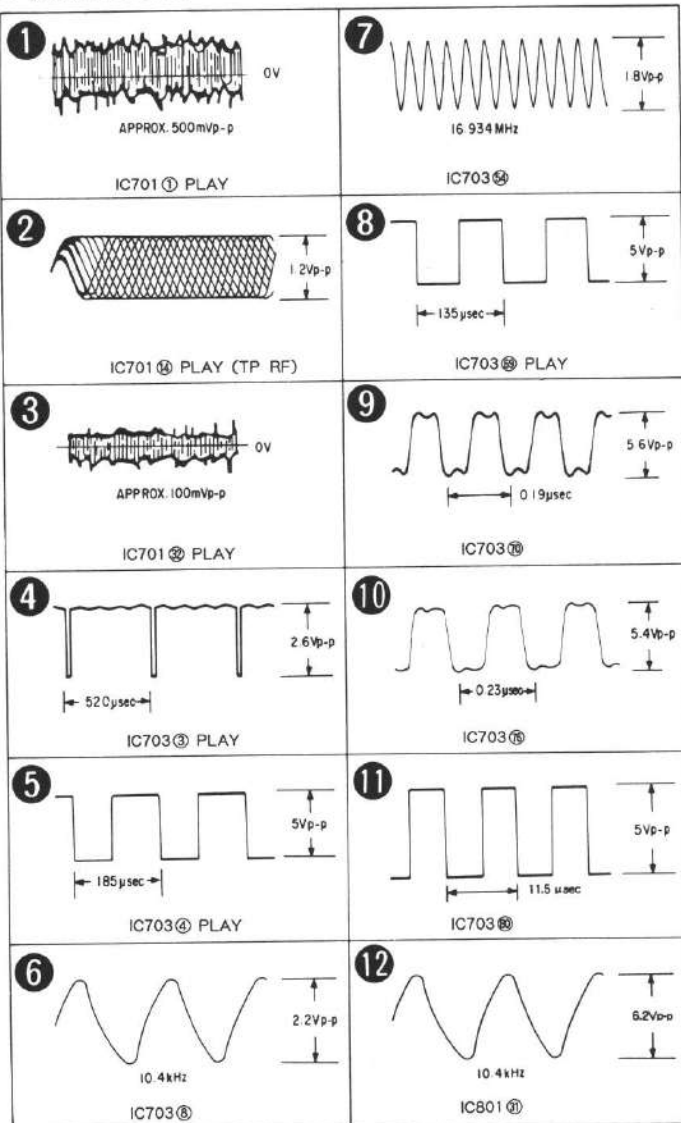


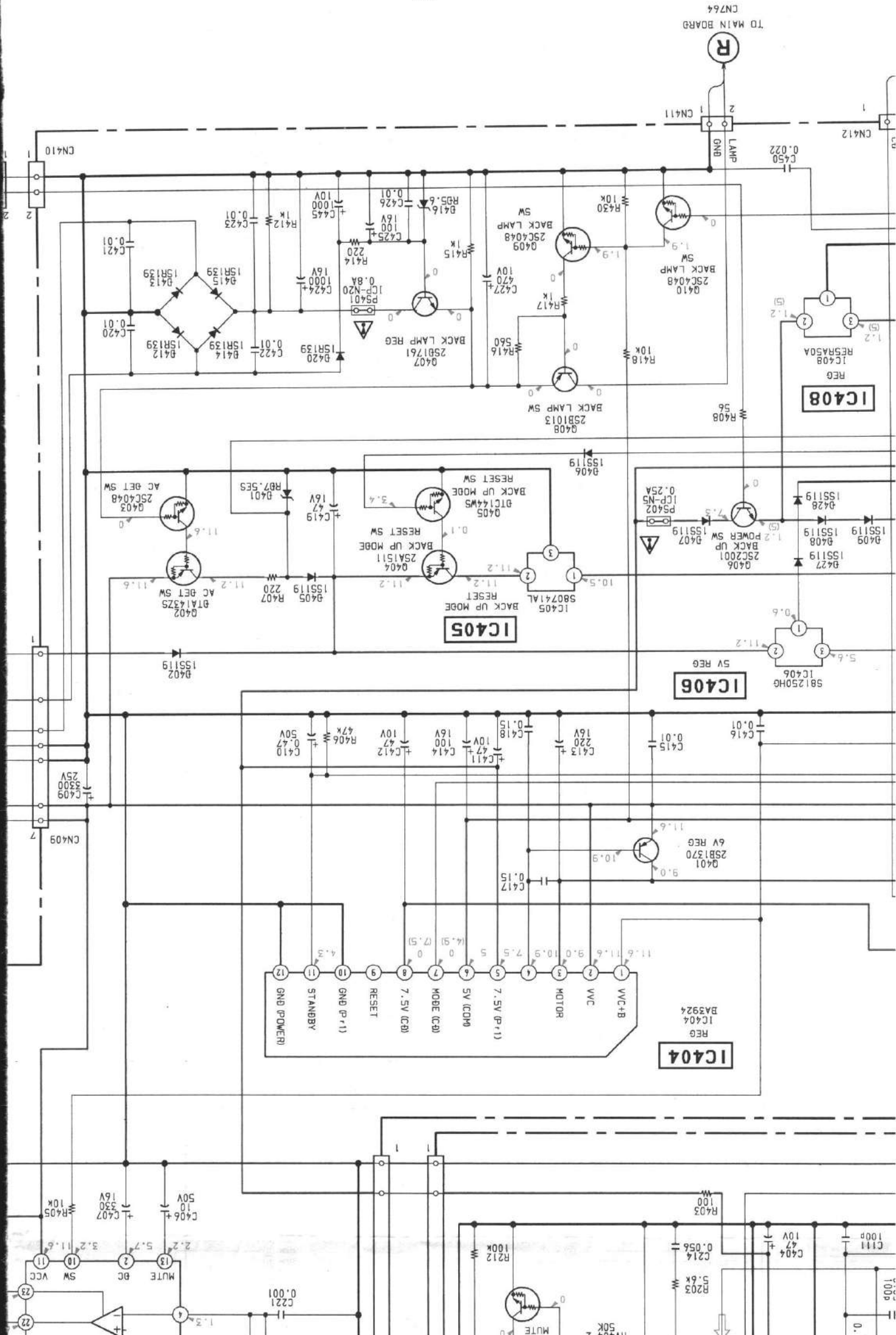
**【BATTERY
TERMINAL
(-) BOARD】**

**【BATTERY
TERMINAL
(+) BOARD】**

6-6. CD CONTROL SCHEMATIC DIAGRAM

• WAVEFORMS





IC404

IC405

IC406

IC408

TO MAIN BOARD

LAMP

CN410

CN411

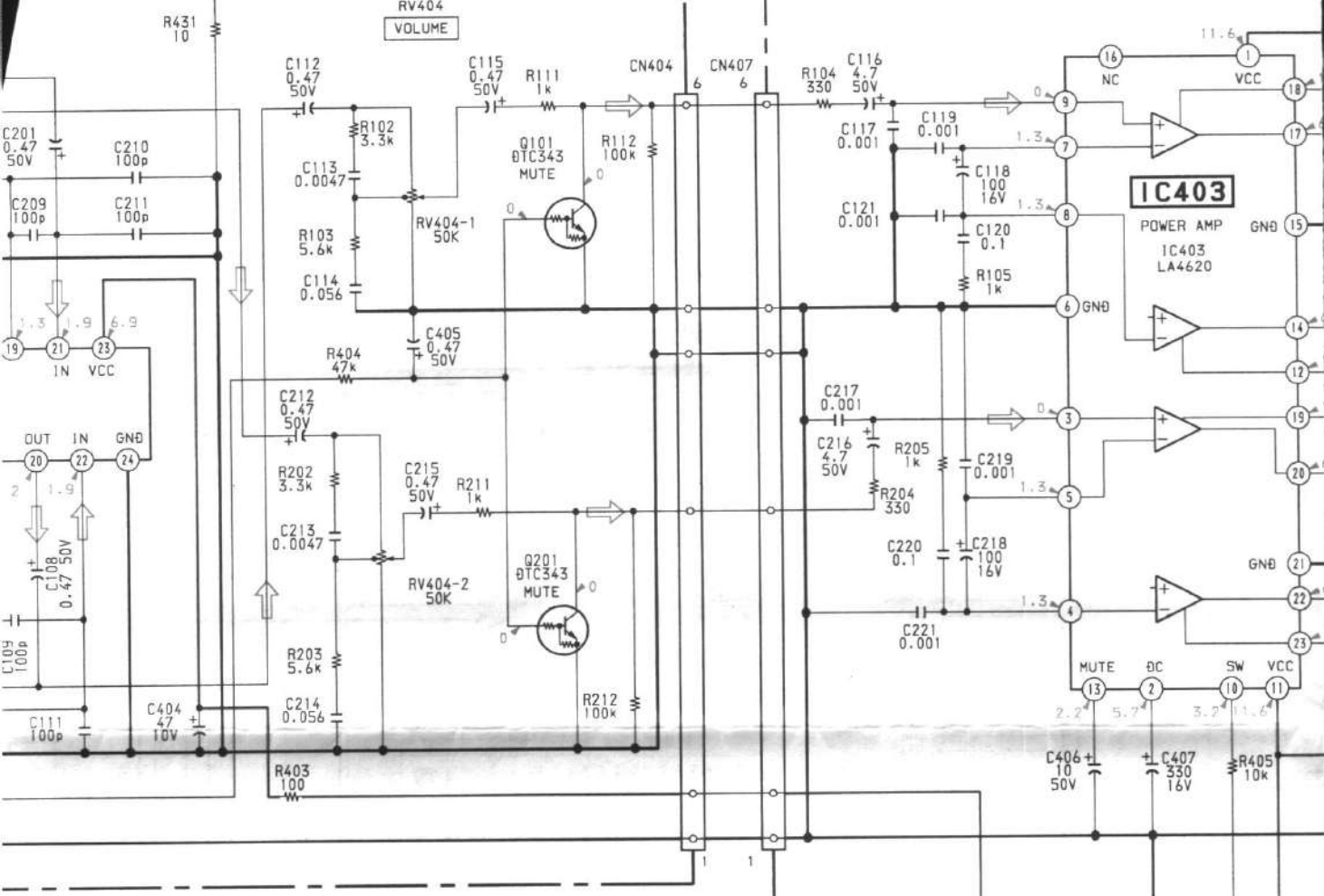
CN412

CN409

CN409

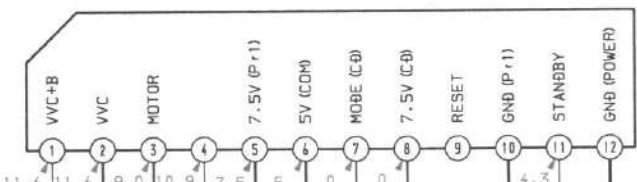
CN409

POWER 2 BOARD



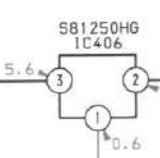
IC404

REG
IC404
BA3924



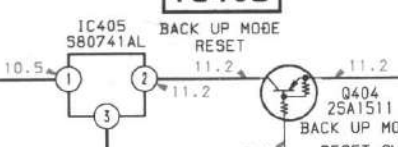
IC406

881250HG
IC406
5V REG

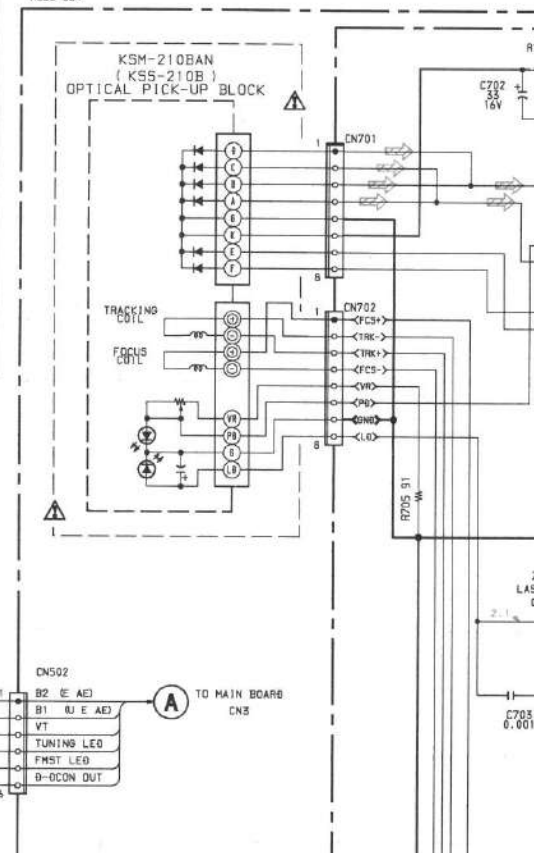
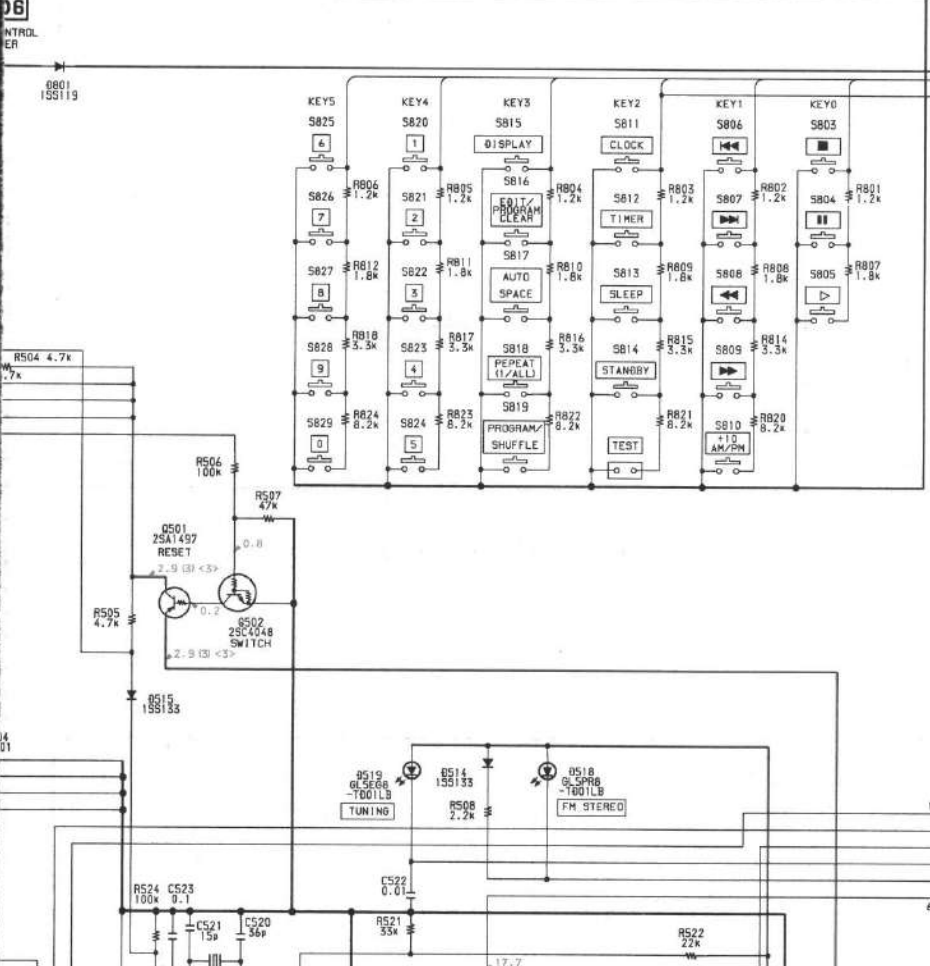
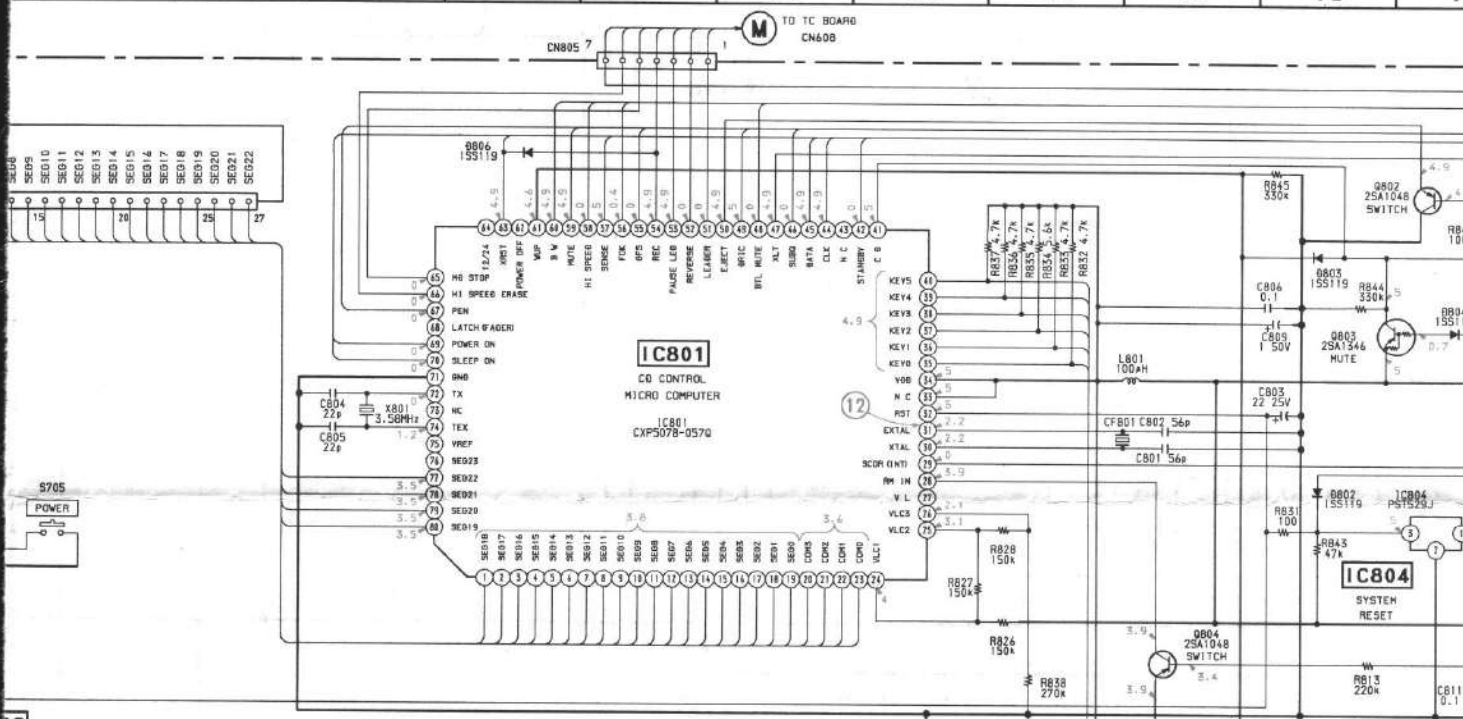


IC405

IC405
980741AL
BACK UP MODE
RESET



6 7 8 9 10 11 12 13 14 15 16



SECTION 7 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts
Example:

KNOB, BALANCE (WHITE) . . . (RED)

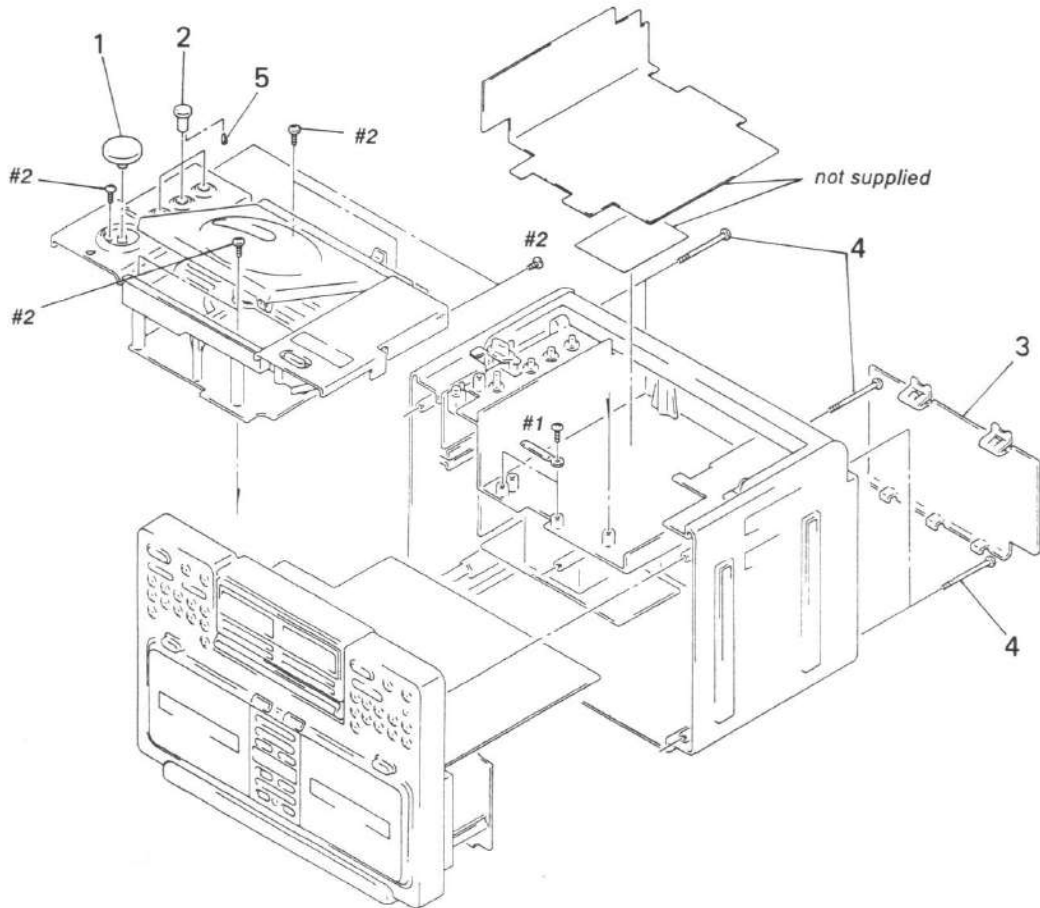
↑ ↑
Parts' Color Cabinet's Color

- Screw (# mark) list is given in the last of this parts list.

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

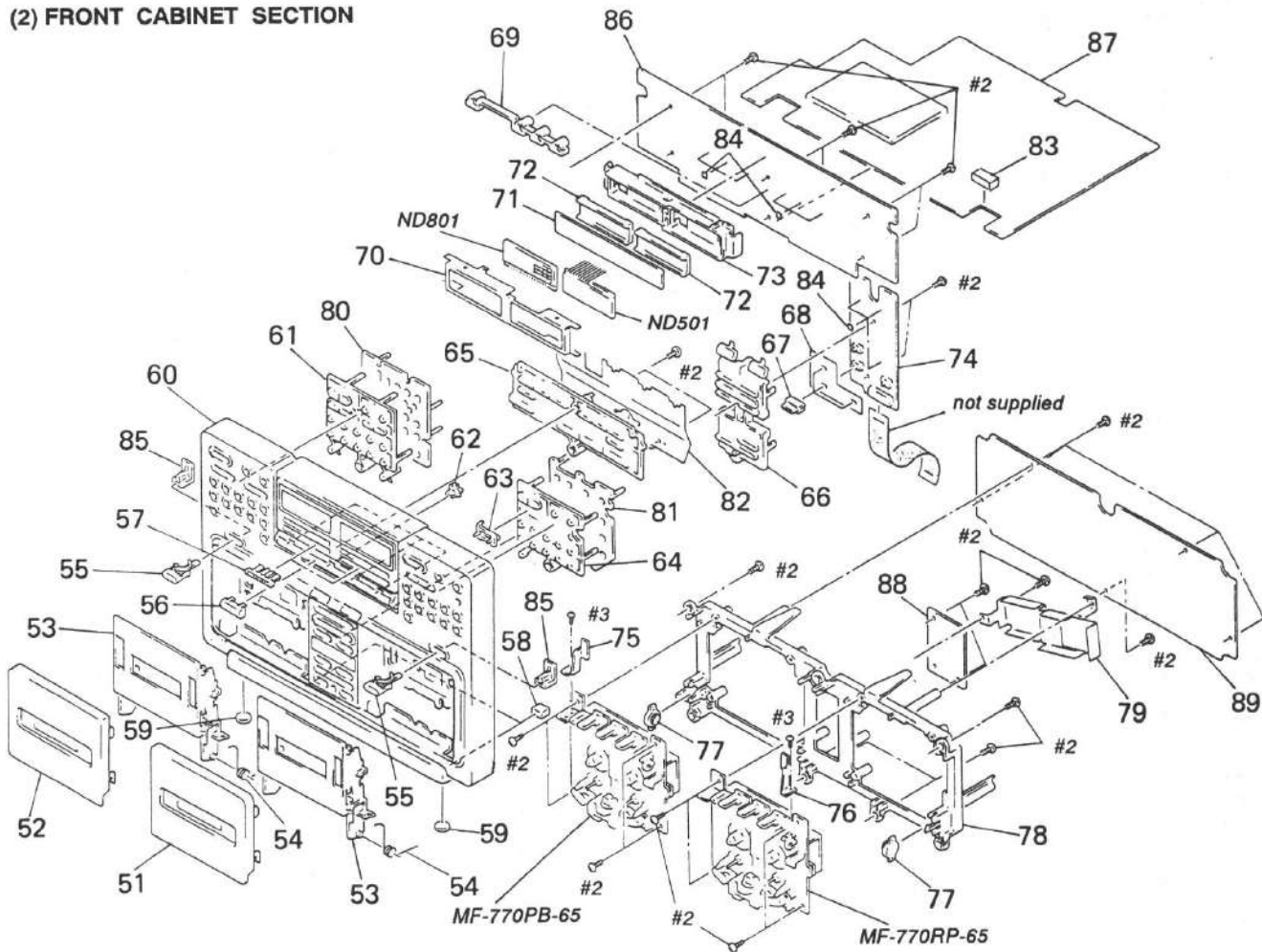
- IT:Italian

(1) OVER ALL SECTION



Ref. No.	Part No.	Description	Remark
1	4-937-646-01	KNOB (VOL)	
2	4-937-647-01	KNOB (GEO)	
3	4-937-653-01	LID, BATTERY CASE	
4	4-926-715-01	SCREW (3X62), TAPPING	
5	4-831-441-XX	SPACER, 3X10	

(2) FRONT CABINET SECTION

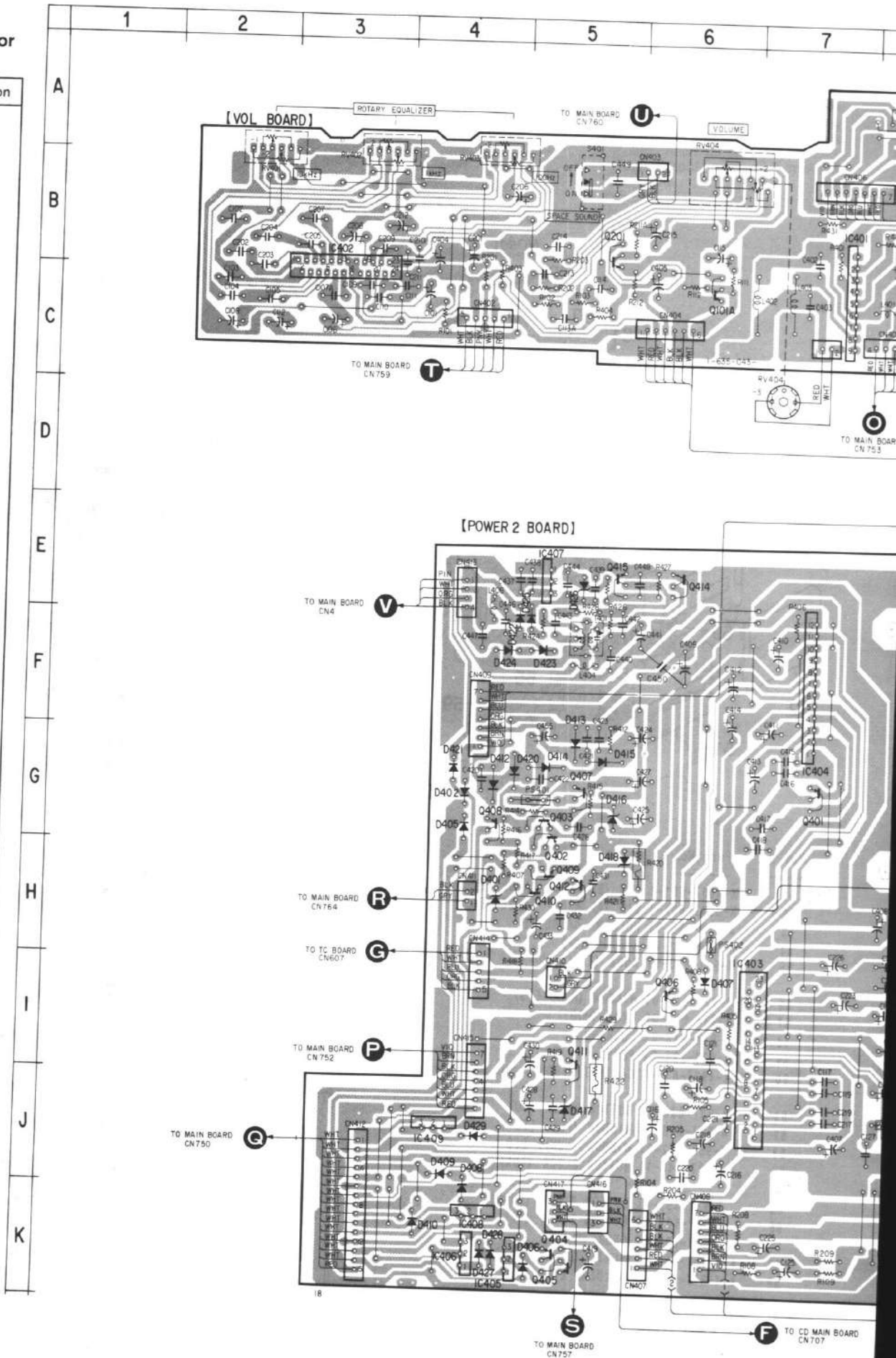


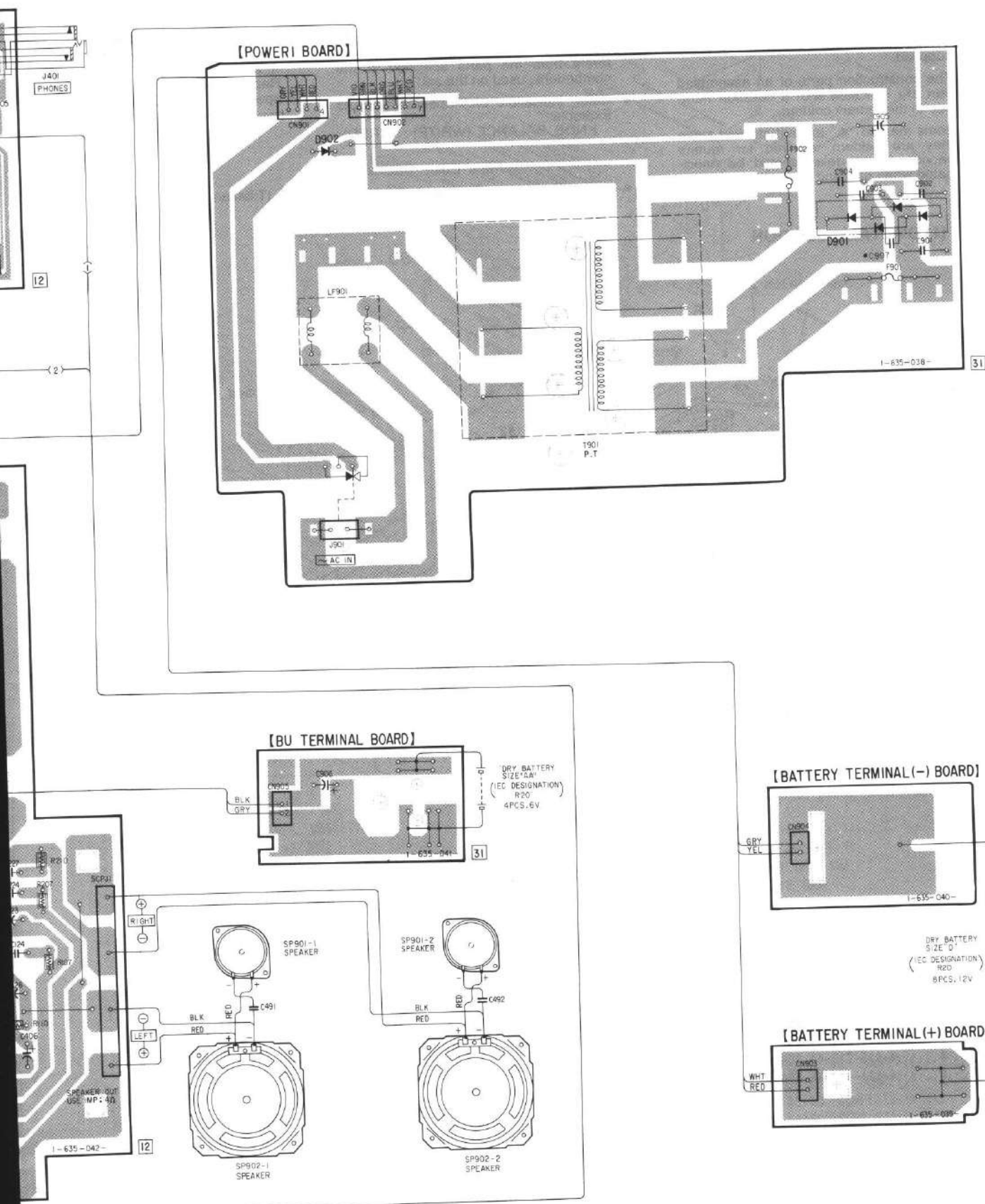
Ref. No.	Part No.	Description	Remark
51	X-4937-601-1	LID (B) ASSY, CASSETTE	
52	X-4937-602-1	LID (A) ASSY, CASSETTE	
53	4-937-650-01	HOLDER, CASSETTE	
54	4-937-602-01	SPRING (CH)	
55	4-937-610-01	KNOB (EJECT/MD)	
56	4-937-611-01	WINDOW (REMOTE. S)	
57	4-937-607-01	KNOB (MODE)	
58	9-911-815-01	CUSHION	
59	4-930-231-01	FOOT	
60	X-4937-616-1	CABINET (FRONT) SUB ASSY	
61	4-937-638-01	BUTTON BLOCK (CD)	
62	4-937-608-01	WINDOW (FU). LED	
63	4-937-632-01	WINDOW (TUN). LED	
64	4-937-640-11	BUTTON BLOCK (TUN)	
65	4-937-655-01	BUTTON BLOCK (FUNC)	
66	4-937-639-01	BUTTON BLOCK (SC)	
67	4-937-609-01	KNOB (PM)	
68	* 4-937-669-11	PLATE (DI), ORNAMENTAL	
69	* 4-937-697-01	HOLDER, LED	
70	* 4-937-642-01	RETAINER, LCD	
71	* 4-937-615-01	SHEET (REFLECTOR)	
72	* 4-937-645-01	PLATE (LCD), LIGHT GUIDE	
73	* 4-937-641-01	HOLDER (NO. 2), LCD	

Ref. No.	Part No.	Description	Remark
74	* A-3261-378-A	MD CONTROL BOARD, COMPLETE... (UK)	
	* A-3289-767-A	MD CONTROL BOARD, COMPLETE... (AEP. IT)	
75	* 4-937-617-01	PLATE (EJECT) (A)	
76	* 4-937-618-01	PLATE (EJECT) (B)	
77	3-343-248-11	DAMPER (P), SMALL	
78	* 4-937-649-01	CHASSIS (MD)	
79	* 4-937-648-01	PLATE (M), SHIELD	
80	* 4-937-699-01	HOLDER (CD), BUTTON	
81	* 4-937-698-01	HOLDER (TUN), BUTTON	
82	* 4-937-694-01	RETAINER (FUNC), BUTTON BLOCK	
83	9-911-840-XX	CUSHION (U)	
84	3-831-441-11	SPACER	
85	4-937-695-01	ADAPTOR, MD/EJECT	
86	* A-3270-925-A	CONTROL BOARD, COMPLETE... (UK)	
	* A-3270-846-A	CONTROL BOARD, COMPLETE... (AEP. IT)	
87	* A-3261-382-A	MAIN BOARD, COMPLETE... (UK)	
	* A-3261-265-A	MAIN BOARD, COMPLETE... (AEP. IT)	
88	* A-3261-381-A	TC SUB BOARD, COMPLETE... (UK)	
	* A-3261-434-A	TC SUB BOARD, COMPLETE... (AEP. IT)	
89	* A-3261-380-A	TC BOARD, COMPLETE... (UK)	
	* A-3261-433-A	TC BOARD, COMPLETE... (AEP. IT)	
ND501	1-809-027-11	DISPLAY PANEL, LIQUID CRYSTAL	
ND801	1-809-019-11	DISPLAY PANEL, LIQUID CRYSTAL	

• Semiconductor Location

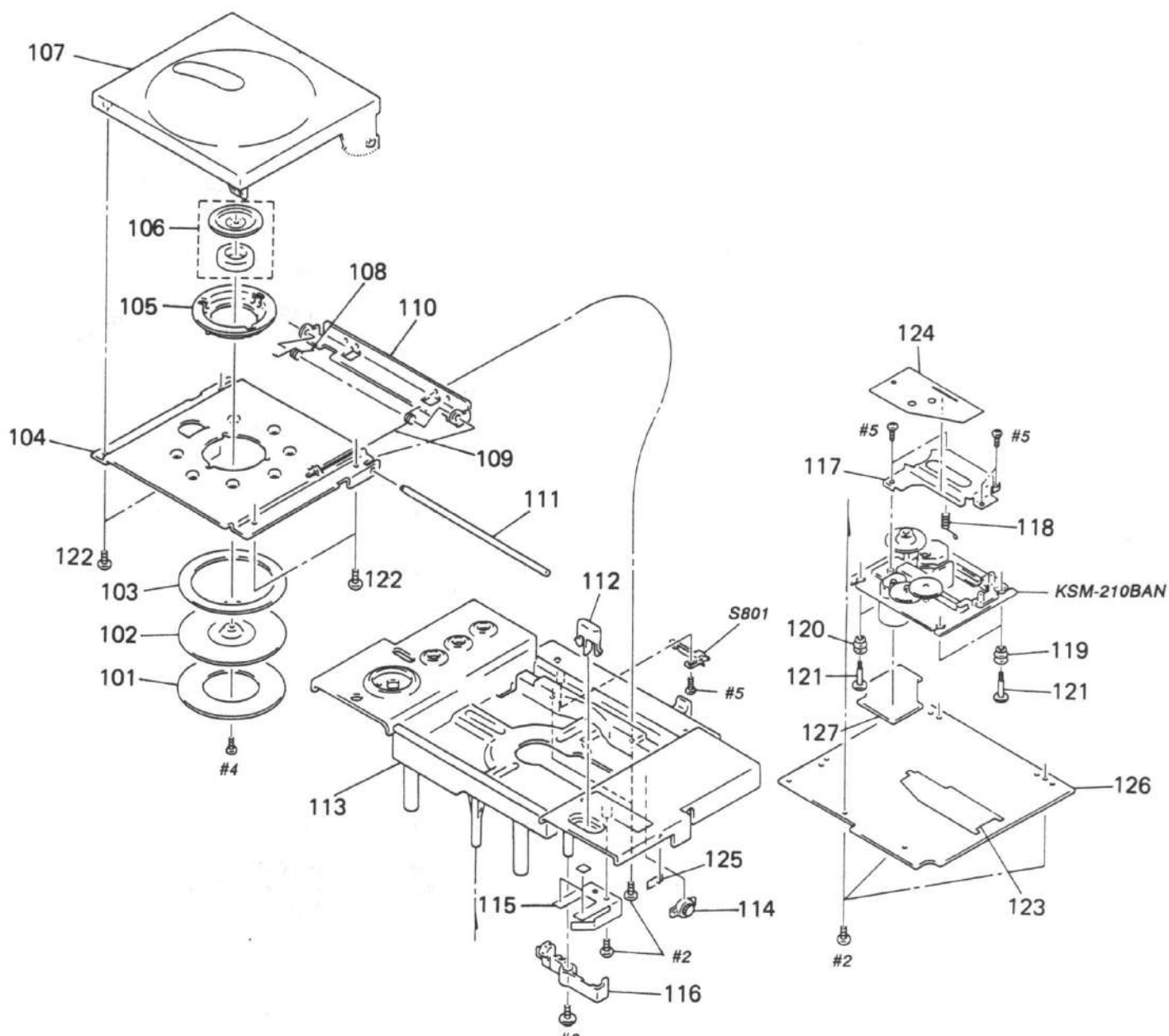
Ref. No.	Location
D401	H-4
D402	G-4
D405	G-4
D406	K-5
D407	I-6
D408	J-4
D409	J-4
D410	K-4
D412	G-4
D413	G-5
D414	G-5
D415	G-5
D416	G-6
D417	J-5
D418	H-5
D420	G-5
D421	G-4
D422	F-5
D423	F-5
D424	F-4
D425	F-5
D426	E-5
D427	K-4
D428	K-4
D429	J-4
D901	C-16
D902	B-11
IC401	C-7
IC402	B-3
IC403	I-7
IC404	F-7
IC405	K-5
IC406	K-4
IC407	E-5
IC408	J-4
IC409	J-4
Q101	C-6
Q201	B-5
Q401	G-7
Q402	G-5
Q403	G-5
Q404	K-5
Q405	K-5
Q406	I-6
Q407	G-5
Q408	G-4
Q409	H-5
Q410	H-5
Q411	I-5
Q412	H-5
Q414	E-6
Q415	E-5





Note:
 ● ○ : parts extracted from the component side.

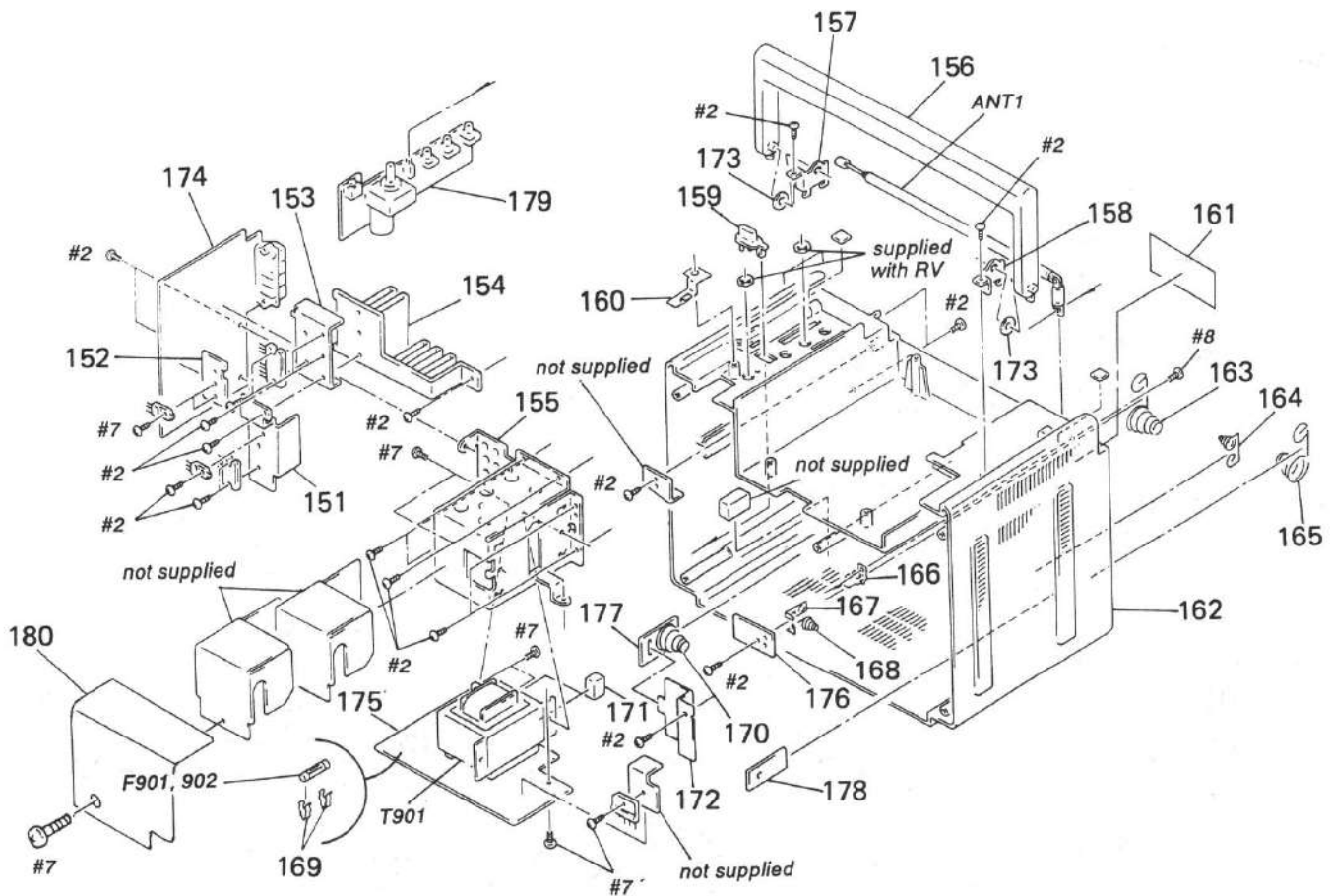
(3) CD BLOCK SECTION



Ref. No.	Part No.	Description	Remark
101	* 4-919-972-01	WASHER	
102	* 4-919-973-01	PLATE (C), CHUCK	
103	* 4-923-370-01	WASHER (CD)	
104	4-937-654-01	PANEL (CD), INNER	
105	* 3-350-659-01	BRACKET, CHUCK PLATE	
106	X-4918-291-1	MAGNET (B) ASSY	
107	X-4937-605-1	LID SUB ASSY, CD	
108	4-937-604-01	SPRING (S), CD	
109	4-937-603-01	SPRING (L), CD	
110	* 4-937-637-01	PLATE (CD), FULCRUM	
111	* 4-937-621-01	SHAFT (CD), FULCRUM	
112	4-937-605-01	KNOB (CD EJECT)	
113	X-3362-031-1	PANEL (TOP) SUB ASSY	
114	3-319-224-11	DAMPER, SMALL	
115	4-937-680-01	SPRING, LEAF, CD EJECT	

Ref. No.	Part No.	Description	Remark
116	4-937-606-01	CLAW (CD), EJECT	
117	* 4-928-936-01	COVER, CD	
118	4-931-358-01	SPRING	
119	4-922-858-01	DAMPER	
120	4-922-858-11	DAMPER	
121	4-931-373-01	SCREW, CD FITTING	
122	3-325-685-21	SCREW, TAPPING	
123	* 4-930-246-11	PAPER (N), SHIELD	
124	* 4-931-787-01	COVER, DUST	
125	3-317-054-11	SPACER, E	
126	* A-3270-922-A	CD MAIN BOARD, COMPLETE... (UK)	
	* A-3222-065-A	CD MAIN BOARD, COMPLETE... (AEP, IT)	
127	* 1-635-582-11	CD MOTOR BOARD	
S801	1-571-283-11	SWITCH, LEAF (OPEN/CLOSE)	

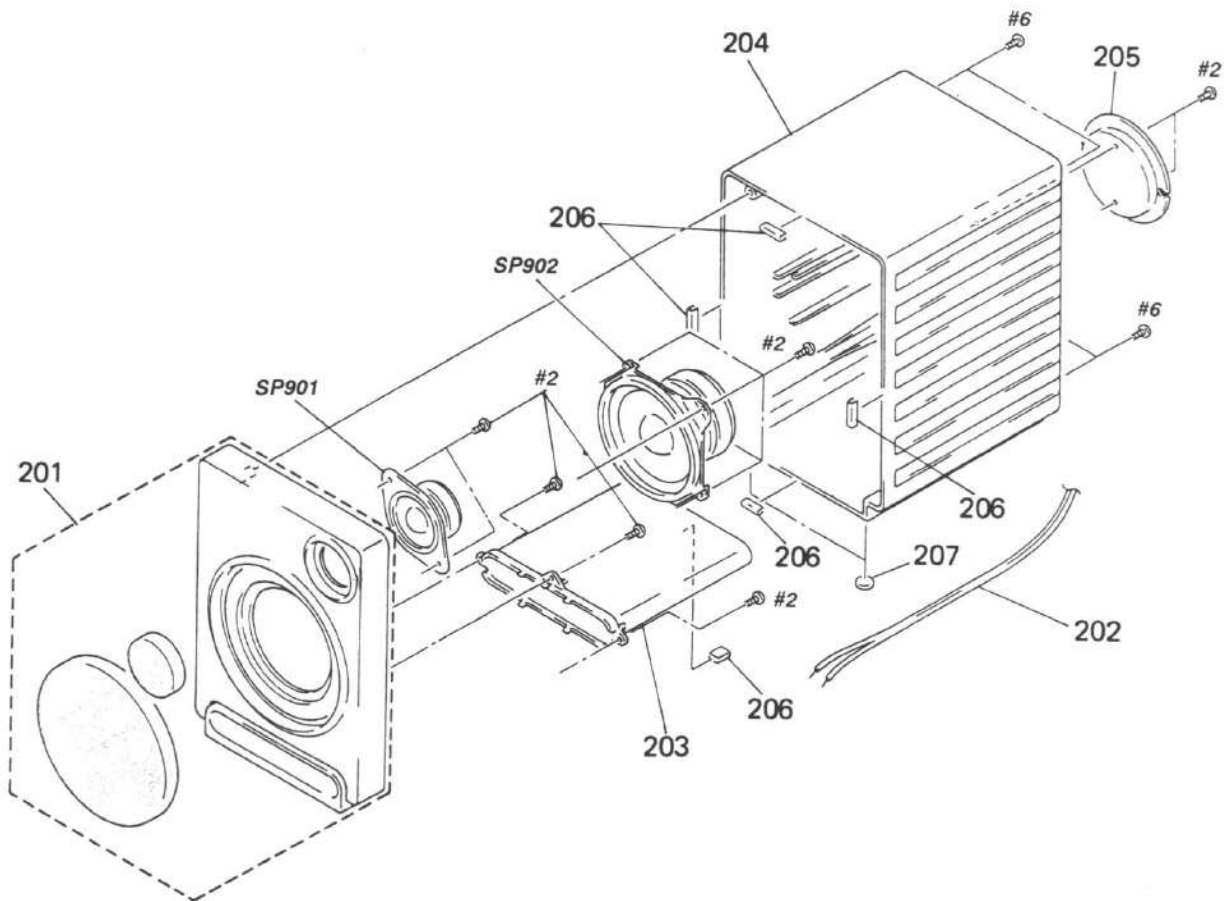
(4) REAR CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	* 4-937-672-01	HEAT SINK (E)		171	3-364-189-01	CUSHION (T)	
152	* 4-937-671-01	HEAT SINK (D)		172	4-937-682-11	PLATE (BATT), BLIND	
153	* 4-937-673-01	HEAT SINK (F)		173	3-366-704-01	WASHER (K)	
154	* X-4937-610-1	HEAT SINK (P) ASSY		174	* A-3261-268-A	POWER 2 BOARD, COMPLETE... (AEP, IT)	
155	* 4-937-657-01	BRACKET, TRANSFORMER			* A-3261-371-A	POWER 2 BOARD, COMPLETE... (UK)	
156	4-937-656-01	HANDLE		175	* 1-635-038-31	POWER 1 BOARD	
157	* 4-937-619-01	BRACKET (L), HANDLE		176	* 1-635-041-31	BU TERMINAL BOARD	
158	* 4-937-620-01	BRACKET (R), HANDLE		177	* 1-635-040-31	BATTERY TERMINAL (-) BOARD	
159	4-937-623-01	KNOB (SPACE SOUND)		178	* 1-635-039-31	BATTERY TERMINAL (+) BOARD	
160	* 4-937-689-01	RETAINER (H/P)		179	* A-3261-372-A	VOLUME BOARD, COMPLETE... (UK)	
161	* 4-941-548-01	LABEL, CLASS 1			* A-3289-772-A	VOLUME BOARD, COMPLETE... (AEP, IT)	
162	4-937-659-31	CABINET (REAR)... (AEP, IT)		180	* 3-365-353-01	PLATE (3), SHIELD, TRANSFORMER	
	4-937-659-41	CABINET (REAR)... (UK)		ANT1	1-501-480-11	ANTENNA, TELESCOPIC	
163	4-937-624-01	SPRING (C1), BATTERY COIL		F901	△ 1-532-325-00	FUSE, TIME-LAG 6.3A 250V	
164	4-937-626-01	SPRING (C), BU COIL		F902	△ 1-532-078-00	FUSE, TIME-LAG 1A 250V	
165	4-937-631-01	SPRING (C2), BATTERY COIL		T901	△ 1-450-249-11	TRANSFORMER, POWER... (AEP, IT)	
166	* 4-937-629-01	TERMINAL, ANT		T901	△ 1-450-250-11	TRANSFORMER, POWER... (UK)	
167	3-362-829-01	TERMINAL (+), BU					
168	4-937-627-01	SPRING (-), BU COIL					
169	* 1-533-189-11	HOLDER, FUSE					
170	4-937-625-01	SPRING (-), BATTERY COIL					

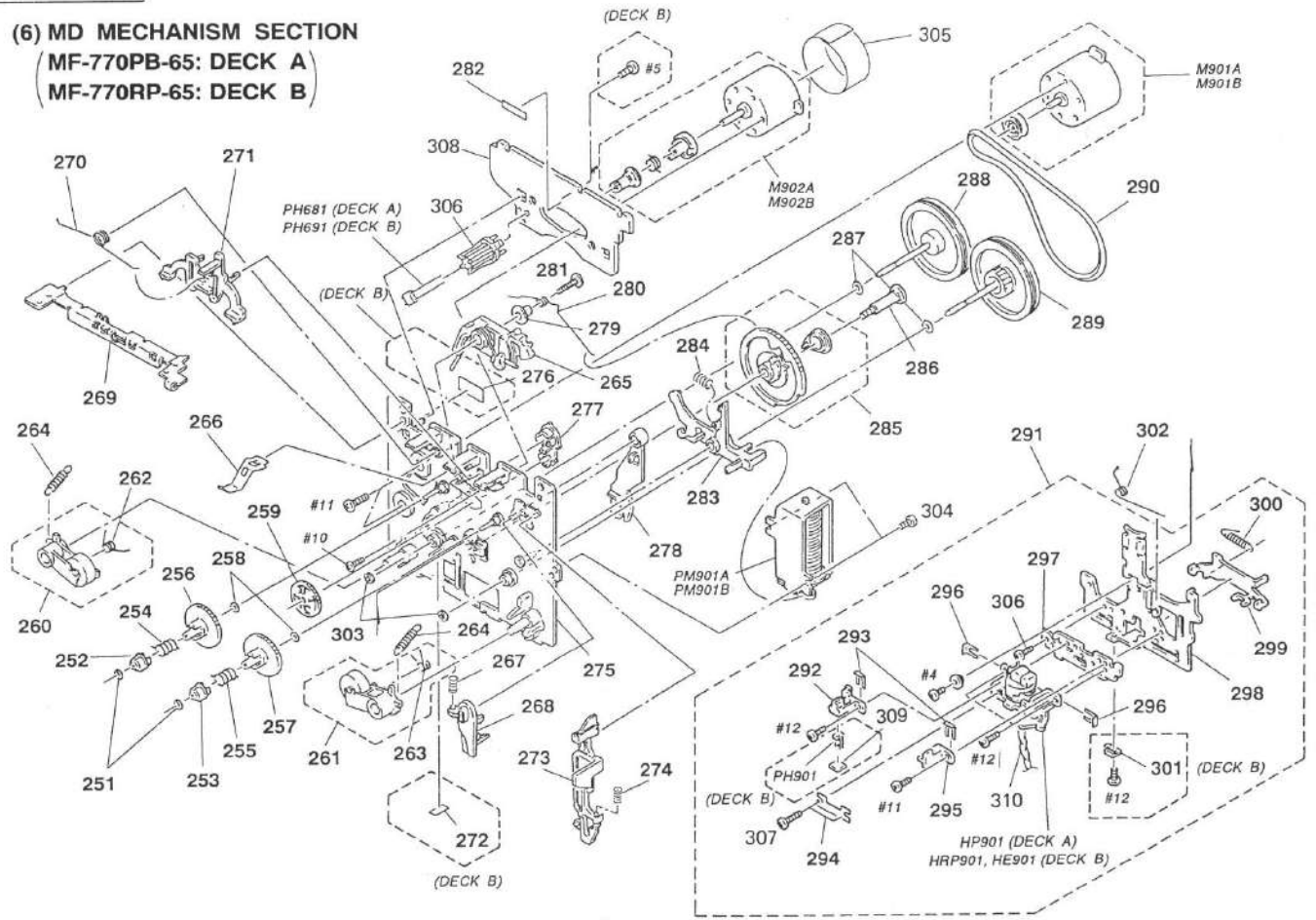
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

(5) SP BOX SECTION



Ref. No.	Part No.	Description	Remark
201	X-4937-603-1 X-4937-604-1	BOX (FRONT) (R) ASSY, SP BOX (FRONT) (L) ASSY, SP	
202	1-556-650-00	CORD, CONNECTION (SPEAKER)	
203	4-937-644-02	DUCT	
204	X-4937-606-1 X-4937-607-1	BOX (REAR) ASSY (R), SP BOX (REAR) ASSY (L), SP	
205	4-937-630-01	REEL, SP	
206	3-831-441-XX	CUSHION, SPEAKER	
207	4-930-231-01	FOOT	
SP901	1-503-488-11	SPEAKER	
SP902	1-544-342-11	SPEAKER	

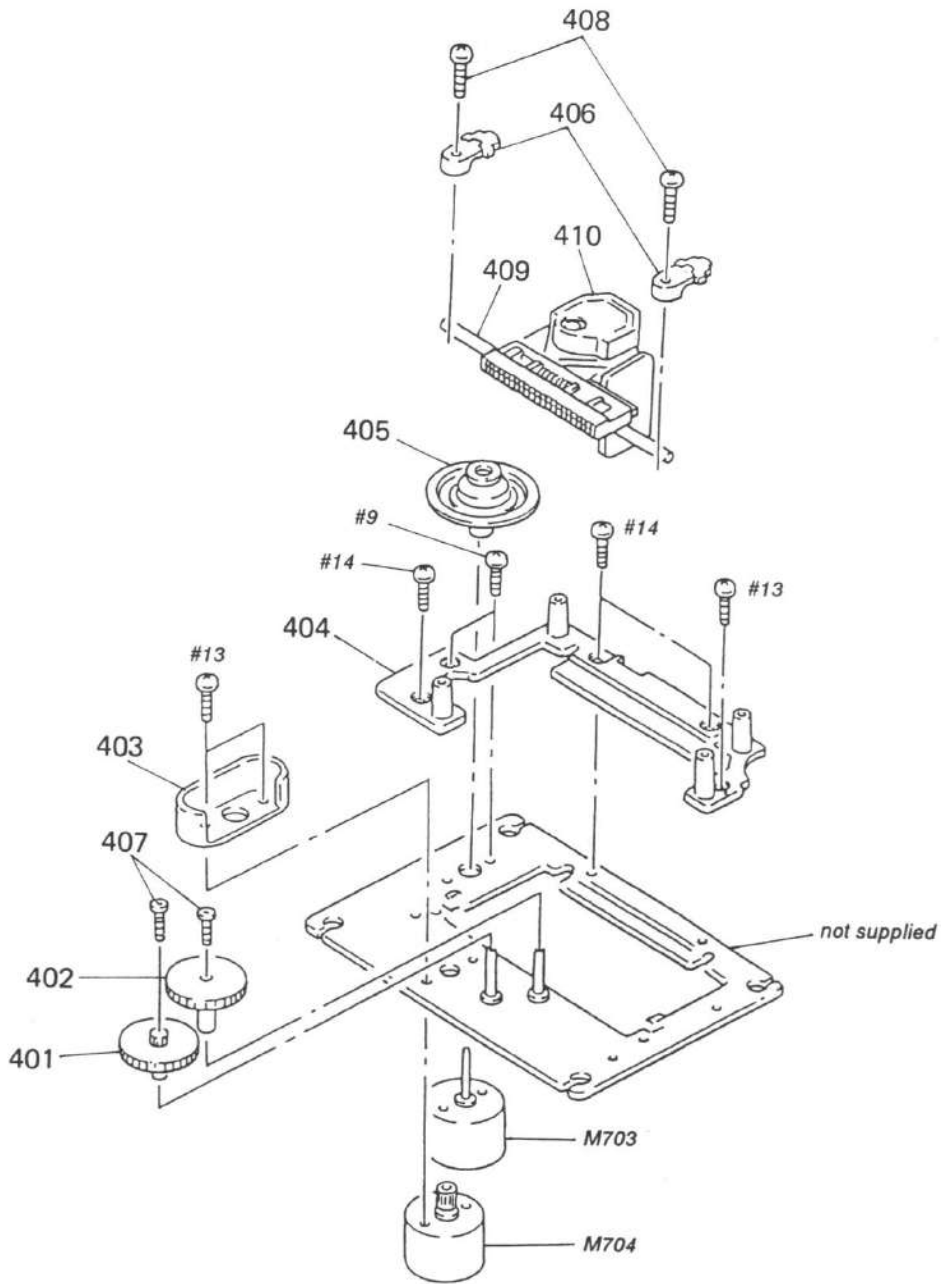
(6) MD MECHANISM SECTION
 (MF-770PB-65: DECK A)
 (MF-770RP-65: DECK B)



Ref. No.	Part No.	Description	Remark
251	3-578-223-21	WASHER, NYLON	
252	3-362-481-01	CLAW (S), REEL	
253	3-362-480-01	CLAW (T), REEL	
254	3-362-831-02	SPRING (RS), TORSION	
255	3-362-830-02	SPRING (RT), TORSION	
256	A-3130-037-A	GEAR (REEL) ASSY	
257	3-362-482-01	GEAR (REEL)	
258	3-701-437-51	WASHER	
259	3-362-483-01	GEAR (DRIVING A)	
260	X-3306-509-1	LEVER (R) ASSY. PC	262
261	X-3306-508-1	LEVER (N) ASSY. PC	263
262	3-360-316-01	SPRING (R), TORSION	
263	3-360-315-01	SPRING (N), TORSION	
264	4-602-490-01	SPRING, TENSION	
265	X-3306-511-1	LINK (LIMITER) ASSY	
266	3-360-328-01	PLATE, CASSETTE	
267	3-360-336-01	SPRING, COMPRESSION	
268	3-360-324-01	LEVER, AMS	
269	3-360-312-01	PLATE, SW RETURN	
270	3-360-310-01	SPRING (BRAKE), TORSION	
271	3-360-348-01	BRAKE	
272	* 3-360-334-03	PAPER (B), REFLECTION...	(DECK B)
273	3-360-307-01	SLIDER (EJECT)	
274	3-363-790-01	SPRING, COMPRESSION	
275	X-3306-546-1	SHASSIS (M) ASSY	262
276	3-381-441-XX	SPACER...	(DECK B)
277	3-306-599-01	ARM, DRIVING	
278	3-360-306-01	LEVER, N	
279	3-363-146-01	SLEEVE, SPRING RETAINER	
280	3-360-337-05	SPRING (CAM), TORSION	
281	3-344-728-01	SCREW (B1.4), TAPPING	
282	9-911-839-99	CUSHION (RM)	
283	3-360-304-01	LEVER, PL	
284	3-344-751-01	SPRING, COMPRESSION	
285	X-3362-641-1	GEAR (CAM) ASSY	
286	3-364-608-01	SCREW (M2.6X11.6X3.5), STEP	
287	3-701-437-11	WASHER	
288	X-3306-513-1	FLYWHEEL (R) ASSY	
289	X-3306-512-1	FLYWHEEL (N) ASSY	
290	3-360-327-01	BELT	

Ref. No.	Part No.	Description	Remark
291	A-3113-033-A	BASE SUB ASSY, HEAD...	(DECK B)
	A-3113-035-A	BASE ASSY, HEAD.....	(DECK A)
292	3-319-287-01	GUIDE, TAPE	
293	4-932-603-01	SHIM (t=0.1)	
	4-932-603-11	SHIM (t=0.2)	
294	4-930-440-01	SPRING	
295	4-930-438-01	GUIDE, TAPE	
296	3-336-274-01	SHIM (t=0.1)	
	3-336-274-11	SHIM (t=0.2)	
	3-336-274-21	SHIM (t=0.3)	
297	3-362-786-01	PLATE, SPACE	
298	* X-3362-100-2	BASE ASSY, HEAD	
299	* X-3362-073-2	SLIDER (NR2) ASSY	
300	3-363-432-01	SPRING, TENSION	
301	* 3-363-812-01	CLUMPER, LEAD...	(DECK B)
302	3-360-321-01	SPRING, TORSION	
303	3-343-358-12	RING, RETAINING	
304	3-363-433-02	SCREW	
305	* 3-162-496-01	PLATE, SHIELD (MOTOR)	
306	3-360-345-01	HOLDER (PHOTO)	
307	3-344-788-01	SCREW, AZIMUTH ADJUSTMENT	
308	* 1-635-162-11	RELAR B BOARD...	(DECK B)
	* 1-635-163-11	RELAR A BOARD...	(DECK A)
309	* 1-635-577-11	PC BOARD, READER DETECTION	
310	* A-3249-575-A	CONNECTOR ASSY, 8P...	(DECK B)
	* A-3249-577-A	CONNECTOR ASSY, 5P...	(DECK A)
HE901	A-3113-034-A	HEAD ASSY, ROTARY...	(DECK B)
HP901	A-3113-036-A	PLATE ASSY, HD...	(DECK A)
M901A	A-3133-405-A	MOTOR ASSY, CAPSTAN...	(DECK A)
M901B	A-3133-405-A	MOTOR ASSY, CAPSTAN...	(DECK B)
M902A	A-3208-406-A	MOTOR ASSY, REEL...	(DECK A)
M902B	A-3208-406-A	MOTOR ASSY, REEL...	(DECK B)
PH681	8-719-939-11	PHOTO INTERRUPTER GP-2S09-B...	(DECK A)
PH691	8-719-939-11	PHOTO INTERRUPTER GP-2S09-B...	(DECK B)
PH901	8-719-939-11	PHOTO INTERRUPTER GP-2S09-B...	(DECK B)
PM901A	1-454-516-11	SOLENOID, PLUNGER...	(DECK A)
PM901B	1-454-516-11	SOLENOID, PLUNGER...	(DECK B)

(7) OPTICAL PICK-UP SECTION
(KSM-210BAN)



Ref. No.	Part No.	Description	Remark
401	2-641-403-05	GEAR (B)	
402	2-641-404-02	GEAR (A)	
403	* 2-641-434-01	COVER, GEAR	
404	2-641-444-01	HOLDER, CHASSIS	
405	X-2640-771-1	TURNTABLE ASSY	
406	2-641-448-02	CLAMP, SHAFT	
407	3-303-809-31	SCREW (M1.7X3.0), SPECIAL HEAD	
408	2-641-447-01	SCREW (2.6X8), + STP	
409	* 4-910-431-01	SHAFT, SLIDE	
410	△ 8-848-137-11	DEVICE, OPTICAL KSS-210B	
M703	1-541-352-11	MOTOR (SPINDLE)	
M704	X-2641-357-1	MOTOR ASSY (SLED)	

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

SECTION 8 ELECTRICAL PARTS LIST

BATTERYL TERMINAL

BU TERMINAL

CD MAIN

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.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When including parts by reference number, please include the board name.

CAPACITORS:
uF: μ F

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- uH: μ H

SEMICONDUCTORS

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

- Screw (# mark) list is 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.

- IT: Italian

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	* 1-635-039-31	PC BOARD, BATTERYL TERMINAL (+) *****				< CAPACITOR >	
		< CONNECTOR >		C701	1-130-475-00	MYLAR 0.0022uF 5% 50V	
CN903	* 1-564-718-11	PIN CONNECTOR (SMALL TYPE)		C702	1-124-963-11	ELECT 33uF 20% 16V	
		*****		C703	1-162-294-31	CERAMIC 0.001uF 10% 50V	
	* 1-635-040-31	PC BOARD, BATTERYL TERMINAL (-) *****		C704	1-124-443-00	ELECT 100uF 20% 10V	
		< CONNECTOR >		C705	1-126-176-11	ELECT 220uF 20% 10V	
CN904	* 1-564-718-11	PIN CONNECTOR (SMALL TYPE)					
		*****		C706	1-130-489-00	MYLAR 0.033uF 5% 50V	
	* 1-635-041-31	BU TERMINAL BOARD *****		C707	1-131-374-00	TANTALUM 33uF 10% 16V	
		< CAPACITOR >		C708	1-130-489-00	MYLAR 0.033uF 5% 50V	
C906	1-124-604-00	ELECT 330uF 20% 10V		C709	1-130-483-00	MYLAR 0.01uF 5% 50V	
		< CONNECTOR >		C710	1-124-963-11	ELECT 33uF 20% 16V	
CN905	* 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P		C711	1-162-201-31	CERAMIC 12PF 5% 50V	
CN905	* 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P		C712	1-162-201-31	CERAMIC 12PF 5% 50V	
		*****		C713	1-124-472-11	ELECT 470uF 20% 10V	
	* A-3222-065-A	CD MAIN BOARD, COMPLETE... (AEP, IT)		C714	1-161-379-00	CERAMIC 0.01uF 20% 25V	
	* A-3270-922-A	CD MAIN BOARD, COMPLETE... (UK) *****		C715	1-136-173-00	FILM 0.47uF 5% 50V	
	3-846-312-00	SPACER		C716	1-130-491-00	MYLAR 0.047uF 5% 50V	
	* 4-930-246-11	PAPER (N), SHIELD		C717	1-162-294-31	CERAMIC 0.001uF 10% 50V	
				C718	1-124-902-00	ELECT 0.47uF 20% 50V	
				C719	1-162-851-11	CERAMIC 0.1uF 16V	
				C720	1-130-489-00	MYLAR 0.033uF 5% 50V	
				C721	1-124-963-11	ELECT 33uF 20% 16V	
				C722	1-130-475-00	MYLAR 0.0022uF 5% 50V	
				C723	1-161-021-11	CERAMIC 0.047uF 10% 25V	
				C724	1-162-294-31	CERAMIC 0.001uF 10% 50V	
				C725	1-136-165-00	FILM 0.1uF 5% 50V	
				C726	1-136-165-00	FILM 0.1uF 5% 50V	
				C727	1-124-963-11	ELECT 33uF 20% 16V	
				C728	1-131-375-00	TANTALUM 4.7uF 10% 10V	
				C729	1-136-165-00	FILM 0.1uF 5% 50V	
				C730	1-123-875-11	ELECT 10uF 20% 50V	
				C731	1-161-061-11	CERAMIC 0.068uF 10% 50V	

CD MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C732	1-162-215-31	CERAMIC	47PF 5% 50V	C874	1-102-966-00	CERAMIC	43PF 5% 50V
C733	1-124-963-11	ELECT	33uF 20% 16V	C875	1-130-471-00	MYLAR	0.001uF 5% 50V
C734	1-130-481-00	MYLAR	0.0068uF 5% 50V	C876	1-130-467-00	MYLAR	470PF 5% 50V
C735	1-162-284-31	CERAMIC	150PF 10% 50V	C877	1-124-927-11	ELECT	4.7uF 20% 100V
C736	1-161-379-00	CERAMIC	0.01uF 20% 25V	C878	1-124-791-11	ELECT	1.0uF 20% 100V
C737	1-161-379-00	CERAMIC	0.01uF 20% 25V	C879	1-124-443-00	ELECT	100uF 20% 10V
C738	1-161-379-00	CERAMIC	0.01uF 20% 25V	C880	1-124-443-00	ELECT	100uF 20% 10V
C739	1-161-379-00	CERAMIC	0.01uF 20% 25V	< CONNECTOR >			
C740	1-124-963-11	ELECT	33uF 20% 16V	CN701	* 1-564-710-11	PIN, CONNECTOR (SMALL TYPE)	8P
C741	1-162-294-31	CERAMIC	0.001uF 10% 50V	CN702	* 1-564-710-11	PIN, CONNECTOR (SMALL TYPE)	8P
C742	1-162-851-11	CERAMIC	0.1uF 16V	CN703	* 1-564-708-11	PIN, CONNECTOR (SMALL TYPE)	6P
C743	1-130-479-00	MYLAR	0.0047uF 5% 50V	CN704	* 1-564-726-11	PIN, CONNECTOR (SMALL TYPE)	10P
C744	1-124-791-11	ELECT	1.0uF 20% 100V	CN707	* 1-564-719-11	PIN, CONNECTOR (SMALL TYPE)	3P
C752	1-124-604-00	ELECT	330uF 20% 10V	CN708	* 1-564-718-11	PIN, CONNECTOR (SMALL TYPE)	2P
C754	1-124-791-11	ELECT	1.0uF 20% 100V	CN709	* 1-564-721-11	PIN, CONNECTOR (SMALL TYPE)	5P
C761	1-136-173-00	FILM	0.47uF 5% 50V	CN710	* 1-564-711-11	PIN, CONNECTOR (SMALL TYPE)	9P
C765	1-162-294-31	CERAMIC	0.001uF 10% 50V	CN711	* 1-564-726-11	PIN, CONNECTOR (SMALL TYPE)	10P
C767	1-162-294-31	CERAMIC	0.001uF 10% 50V	CN712	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE)	2P
C768	1-162-851-11	CERAMIC	0.1uF 16V	< DIODE >			
C770	1-124-360-00	ELECT	1000uF 20% 16V	D701	8-719-911-19	DIODE 1SS119	
C771	1-124-791-11	ELECT	1.0uF 20% 100V	D702	8-719-911-19	DIODE 1SS119	
C780	1-124-963-11	ELECT	33uF 20% 16V	D704	8-719-911-19	DIODE 1SS119	
C781	1-124-963-11	ELECT	33uF 20% 16V	D705	8-719-911-19	DIODE 1SS119	
C784	1-126-176-11	ELECT	220uF 20% 10V	D804	8-719-911-19	DIODE 1SS119	
C790	1-161-379-00	CERAMIC	0.01uF 20% 25V	D805	8-719-911-19	DIODE 1SS119	
C791	1-124-927-11	ELECT	4.7uF 20% 100V	< IC >			
C792	1-124-791-11	ELECT	1.0uF 20% 100V	IC701	8-752-033-14	IC CXA1081Q	
C794	1-124-927-11	ELECT	4.7uF 20% 100V	IC702	8-752-032-32	IC CXA1182Q-Z	
C795	1-162-294-31	CERAMIC	0.001uF 10% 50V	IC703	8-752-328-46	IC CXD1130Q	
C796	1-162-294-31	CERAMIC	0.001uF 10% 50V	IC704	8-759-984-09	IC LH5116NA-10	
C797	1-162-282-31	CERAMIC	100PF 10% 50V	IC706	8-759-634-07	IC M51591FP	
C798	1-162-282-31	CERAMIC	100PF 10% 50V	IC707	8-759-148-30	IC uPD6376	
C800	1-124-791-11	ELECT	1.0uF 20% 100V	IC708	8-759-501-65	IC BA6294	
C851	1-162-292-31	CERAMIC	680PF 10% 50V	IC709	8-759-501-65	IC BA6294	
C852	1-162-215-31	CERAMIC	47PF 5% 50V	IC802	8-759-945-58	IC RC4558P	
C853	1-162-215-31	CERAMIC	47PF 5% 50V	< COIL >			
C860	1-130-471-00	MYLAR	0.001uF 5% 50V	L701	1-410-316-11	INDUCTOR	1uH
C861	1-130-471-00	MYLAR	0.001uF 5% 50V	L702	1-410-322-11	INDUCTOR	3.3uH
C862	1-130-477-00	MYLAR	0.0033uF 5% 50V	L703	1-410-322-11	INDUCTOR	3.3uH
C863	1-130-468-00	MYLAR	560PF 5% 50V	< TRANSISTOR >			
C864	1-102-966-00	CERAMIC	43PF 5% 50V	Q701	8-729-801-84	TRANSISTOR 2SB1013-4	
C865	1-130-471-00	MYLAR	0.001uF 5% 50V	Q704	8-729-920-70	TRANSISTOR 2SC1740S-QR	
C866	1-130-467-00	MYLAR	470PF 5% 50V	Q705	8-729-900-63	TRANSISTOR DTA124ES	
C867	1-124-927-11	ELECT	4.7uF 20% 100V	Q706	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C868	1-124-443-00	ELECT	100uF 20% 10V	Q707	8-729-900-74	TRANSISTOR DTC143TS	
C870	1-130-471-00	MYLAR	0.001uF 5% 50V				
C871	1-130-471-00	MYLAR	0.001uF 5% 50V				
C872	1-130-477-00	MYLAR	0.0033uF 5% 50V				
C873	1-130-468-00	MYLAR	560PF 5% 50V				

CD MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q711	8-729-900-36	TRANSISTOR DTC124ES		R766	1-249-395-11	CARBON	15 5% 1/4W
Q729	8-729-107-84	TRANSISTOR 2SC3623A-L		R767	1-249-418-11	CARBON	1.2K 5% 1/4W
Q791	8-729-900-36	TRANSISTOR DTC124ES		R768	1-249-405-11	CARBON	100 5% 1/4W
Q792	8-729-900-36	TRANSISTOR DTC124ES		R770	1-215-453-00	METAL	22K 1% 1/6W
Q793	8-729-920-70	TRANSISTOR 2SC1740S-OR		R771	1-215-453-00	METAL	22K 1% 1/6W
Q794	8-729-900-74	TRANSISTOR DTC143TS					
< RESISTOR >							
R701	1-249-433-11	CARBON	22K 5% 1/4W	R772	1-215-453-00	METAL	22K 1% 1/6W
R702	1-249-417-11	CARBON	1K 5% 1/4W	R773	1-215-453-00	METAL	22K 1% 1/6W
R703	1-249-433-11	CARBON	22K 5% 1/4W	R774	1-215-429-00	METAL	2.2K 1% 1/6W
R704	1-249-397-11	CARBON	22 5% 1/4W	R775	1-215-457-00	METAL	33K 1% 1/6W
R705	1-247-806-11	CARBON	91 5% 1/4W	R776	1-215-457-00	METAL	33K 1% 1/6W
R707	1-215-431-00	METAL	2.7K 1% 1/6W	R777	1-215-457-00	METAL	33K 1% 1/6W
R708	1-247-901-11	CARBON	820K 5% 1/4	R778	1-215-433-00	METAL	3.3K 1% 1/6W
R709	1-249-441-11	CARBON	100K 5% 1/4W	R779	1-247-868-11	CARBON	36K 5% 1/4W
R710	1-249-429-11	CARBON	10K 5% 1/4W	R780	1-249-435-11	CARBON	33K 5% 1/4W
R711	1-249-428-11	CARBON	8.2K 5% 1/4W	R781	1-247-876-11	CARBON	75K 5% 1/4W
R712	1-247-856-00	CARBON	11K 5% 1/4W	R782	1-249-435-11	CARBON	33K 5% 1/4W
R713	1-249-441-11	CARBON	100K 5% 1/4W	R783	1-249-417-11	CARBON	1K 5% 1/4W
R714	1-249-426-11	CARBON	5.6K 5% 1/4W	R784	1-249-429-11	CARBON	10K 5% 1/4W
R715	1-249-441-11	CARBON	100K 5% 1/4W	R785	1-249-410-11	CARBON	270 5% 1/4W
R716	1-215-476-00	METAL	200K 1% 1/6W	R787	1-212-861-11	FUSIBLE	15 5% 1/4W F
R717	1-215-431-00	METAL	2.7K 1% 1/6W	R789	1-249-433-11	CARBON	22K 5% 1/4W
R718	1-247-903-00	CARBON	1M 5% 1/4W	R791	1-249-421-11	CARBON	2.2K 5% 1/4W
R719	1-249-417-11	CARBON	1K 5% 1/4W	R792	1-249-431-11	CARBON	15K 5% 1/4W
R720	1-247-883-00	CARBON	150K 5% 1/4W	R793	1-249-429-11	CARBON	10K 5% 1/4W
R721	1-249-441-11	CARBON	100K 5% 1/4W	R795	1-249-417-11	CARBON	1K 5% 1/4W
R722	1-249-429-11	CARBON	10K 5% 1/4W	R799	1-249-441-11	CARBON	100K 5% 1/4W
R723	1-249-441-11	CARBON	100K 5% 1/4W	R800	1-247-895-00	CARBON	470K 5% 1/4W
R724	1-249-438-11	CARBON	56K 5% 1/4W	R851	1-215-457-00	METAL	33K 1% 1/6W
R725	1-247-885-00	CARBON	180K 5% 1/4W	R852	1-247-893-11	CARBON	390K 5% 1/4W
R726	1-249-437-11	CARBON	47K 5% 1/4W	R853	1-249-441-11	CARBON	100K 5% 1/4W
R727	1-249-441-11	CARBON	100K 5% 1/4W	R854	1-247-895-00	CARBON	470K 5% 1/4W
R728	1-247-854-11	CARBON	9.1K 5% 1/4W	R855	1-249-441-11	CARBON	100K 5% 1/4W
R729	1-247-896-11	CARBON	510K 5% 1/4W	R860	1-249-425-11	CARBON	4.7K 5% 1/4W
R730	1-249-441-11	CARBON	100K 5% 1/4W	R861	1-249-431-11	CARBON	15K 5% 1/4W
R731	1-215-461-00	METAL	47K 1% 1/6W	R862	1-215-429-00	METAL	2.2K 1% 1/6W
R732	1-215-461-00	METAL	47K 1% 1/6W	R863	1-215-449-00	METAL	15K 1% 1/6W
R733	1-249-429-11	CARBON	10K 5% 1/4W	R864	1-215-453-00	METAL	22K 1% 1/6W
R734	1-249-417-11	CARBON	1K 5% 1/4W	R865	1-215-461-00	METAL	47K 1% 1/6W
R735	1-249-417-11	CARBON	1K 5% 1/4W	R866	1-249-419-11	CARBON	1.5K 5% 1/4W
R736	1-249-429-11	CARBON	10K 5% 1/4W	R870	1-249-425-11	CARBON	4.7K 5% 1/4W
R737	1-249-417-11	CARBON	1K 5% 1/4W	R871	1-249-431-11	CARBON	15K 5% 1/4W
R740	1-249-417-11	CARBON	1K 5% 1/4W	R872	1-215-429-00	METAL	2.2K 1% 1/6W
R743	1-249-431-11	CARBON	15K 5% 1/4W	R873	1-215-449-00	METAL	15K 1% 1/6W
R753	1-249-431-11	CARBON	15K 5% 1/4W	R874	1-215-453-00	METAL	22K 1% 1/6W
R765	1-249-395-11	CARBON	15 5% 1/4W	R875	1-215-461-00	METAL	47K 1% 1/6W
				R876	1-249-419-11	CARBON	1.5K 5% 1/4W
				R877	1-249-405-11	CARBON	100 5% 1/4W
				R878	1-249-405-11	CARBON	100 5% 1/4W
				R879	1-249-414-11	CARBON	560 5% 1/4W

CD MAIN

CD MOTOR

CONTROL

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV701	1-230-497-11	RES. ADJ. CARBON 20K	
RV702	1-230-498-11	RES. ADJ. CARBON 50K	
RV703	1-228-991-00	RES. ADJ. METAL 2.2K	
RV704	1-230-497-11	RES. ADJ. CARBON 20K	
RV705	1-230-497-11	RES. ADJ. CARBON 20K	
RV706	1-228-991-00	RES. ADJ. METAL 2.2K	
		< CRYSTAL >	
XF701	1-567-908-11	VIBRATOR, CRYSTAL 16.9344MHz	

	* 1-635-582-11	CD MOTOR BOARD	

		< CONNECTOR >	
CN706	* 1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	
		< SWITCH >	
S802	1-571-936-11	SWITCH, LEAF (LIMIT IN)	

	* A-3270-846-A	CONTROL BOARD, COMPLETE... (AEP, IT)	
	* A-3270-925-A	CONTROL BOARD, COMPLETE... (UK)	

	* 4-937-615-01	SHEET (REFLECTOR)	
	* 4-937-641-01	HOLDER (NO. 2), LCD	
	* 4-937-642-01	RETAINER, LCD	
	* 4-937-645-01	PLATE (LCD), LIGHT GUIDE	
	* 4-937-697-01	HOLDER, LED	
		< CAPACITOR >	
C501	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C502	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C503	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C504	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C506	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C507	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C508	1-164-159-11	CERAMIC 0.1uF 50V	
C509	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C510	1-164-159-11	CERAMIC 0.1uF 50V	
C511	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C512	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C513	1-126-177-11	ELECT 100uF 20% 10V	
C514	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C515	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C516	1-161-379-00	CERAMIC 0.01uF 20% 25V	

Ref. No.	Part No.	Description	Remark
C517	1-136-175-00	FILM 0.68uF 5% 50V	
C518	1-136-162-00	FILM 0.056uF 5% 50V	
C519	1-126-176-11	ELECT 220uF 20% 10V	
C520	1-102-964-00	CERAMIC 36PF 5% 50V	
C521	1-162-203-31	CERAMIC 15PF 5% 50V	
C522	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C523	1-164-159-11	CERAMIC 0.1uF 50V	
C524	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C801	1-101-884-00	CERAMIC 56PF 5% 50V	
C802	1-101-884-00	CERAMIC 56PF 5% 50V	
C803	1-124-598-11	ELECT 22uF 20% 25V	
C804	1-102-959-00	CERAMIC 22PF 5% 50V	
C805	1-102-959-00	CERAMIC 22PF 5% 50V	
C806	1-164-159-11	CERAMIC 0.1uF 50V	
C809	1-126-301-11	ELECT 1uF 20% 50V	
C810	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C811	1-164-159-11	CERAMIC 0.1uF 50V	
CF801	1-567-094-00	VIBRATOR, CERAMIC	
		< CONNECTOR >	
CN501	* 1-566-968-11	HOUSING, CONNECTOR (PC BOARD) 6P	
CN502	* 1-566-968-11	HOUSING, CONNECTOR (PC BOARD) 6P	
CN718	* 1-566-970-11	HOUSING, CONNECTOR (PC BOARD) 8P	
CN719	* 1-565-980-11	HOUSING, CONNECTOR (PC BOARD) 9P	
CN720	* 1-565-980-11	HOUSING, CONNECTOR (PC BOARD) 9P	
CN721	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN722	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN723	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN801	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN802	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN803	* 1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P	
CN804	* 1-564-712-11	PIN, CONNECTOR (SMALL TYPE) 10P	
CN805	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
		< DIODE >	
D501	8-719-911-19	DIODE 1SS119	
D502	8-719-911-19	DIODE 1SS119	
D503	8-719-911-19	DIODE 1SS119	
D504	8-719-911-19	DIODE 1SS119	
D505	8-719-911-19	DIODE 1SS119	
D506	8-719-911-19	DIODE 1SS119	
D507	8-719-911-19	DIODE 1SS119	
D508	8-719-911-19	DIODE 1SS119	
D509	8-719-911-19	DIODE 1SS119	
D510	8-719-911-19	DIODE 1SS119	
D511	8-719-911-19	DIODE 1SS119	

CONTROL

MAIN

Ref. No.	Part No.	Description	Remark
R822	1-249-428-11	CARBON	8.2K 5% 1/4W
R823	1-249-428-11	CARBON	8.2K 5% 1/4W
R824	1-249-428-11	CARBON	8.2K 5% 1/4W
R825	1-249-433-11	CARBON	22K 5% 1/4W
R826	1-247-883-00	CARBON	150K 5% 1/4W
R827	1-247-883-00	CARBON	150K 5% 1/4W
R828	1-247-883-00	CARBON	150K 5% 1/4W
R831	1-249-405-11	CARBON	100 5% 1/4W
R832	1-249-425-11	CARBON	4.7K 5% 1/4W
R833	1-249-425-11	CARBON	4.7K 5% 1/4W
R834	1-249-426-11	CARBON	5.6K 5% 1/4W
R835	1-249-425-11	CARBON	4.7K 5% 1/4W
R836	1-249-425-11	CARBON	4.7K 5% 1/4W
R837	1-249-425-11	CARBON	4.7K 5% 1/4W
R838	1-247-889-00	CARBON	270K 5% 1/4W
R842	1-247-899-11	CARBON	680K 5% 1/4W
R843	1-249-437-11	CARBON	47K 5% 1/4W
R844	1-247-891-00	CARBON	330K 5% 1/4W
R845	1-247-891-00	CARBON	330K 5% 1/4W
R846	1-249-441-11	CARBON	100K 5% 1/4W
R847	1-249-429-11	CARBON	10K 5% 1/4W
< SWITCH >			
S501	1-572-199-11	SWITCH, KEYBOARD (0)	
S502	1-572-199-11	SWITCH, KEYBOARD (1)	
S503	1-572-199-11	SWITCH, KEYBOARD (2)	
S504	1-572-199-11	SWITCH, KEYBOARD (3)	
S505	1-572-199-11	SWITCH, KEYBOARD (4)	
S506	1-572-199-11	SWITCH, KEYBOARD (5)	
S507	1-572-199-11	SWITCH, KEYBOARD (6)	
S508	1-572-199-11	SWITCH, KEYBOARD (7)	
S509	1-572-199-11	SWITCH, KEYBOARD (SW BAND)	
S510	1-572-199-11	SWITCH, KEYBOARD (8)	
S511	1-572-199-11	SWITCH, KEYBOARD (9)	
S512	1-572-199-11	SWITCH, KEYBOARD (+10 AM/PM)	
S513	1-572-199-11	SWITCH, KEYBOARD (TUNING +)	
S514	1-572-199-11	SWITCH, KEYBOARD (TUNING -)	
S515	1-572-199-11	SWITCH, KEYBOARD (FM/MW/LW)	
S703	1-572-619-11	SWITCH, SLIDE (TIMER MODE)	
S704	1-572-619-11	SWITCH, SLIDE (CD DUBBING SPEED)	
S705	1-572-199-11	SWITCH, KEYBOARD (POWER)	
S706	1-572-199-11	SWITCH, KEYBOARD (TAPE/DUB)	
S707	1-572-199-11	SWITCH, KEYBOARD (TUNER)	
S708	1-572-199-11	SWITCH, KEYBOARD (CD)	
S803	1-572-199-11	SWITCH, KEYBOARD (STOP)	
S804	1-572-199-11	SWITCH, KEYBOARD (PAUSE)	
S805	1-572-199-11	SWITCH, KEYBOARD (PLAY)	
S806	1-572-199-11	SWITCH, KEYBOARD (SEARCH REW)	

Ref. No.	Part No.	Description	Remark
S807	1-572-199-11	SWITCH, KEYBOARD (SEARCH FF)	
S808	1-572-199-11	SWITCH, KEYBOARD (REW)	
S809	1-572-199-11	SWITCH, KEYBOARD (FF)	
S810	1-572-199-11	SWITCH, KEYBOARD (+10 AM/PM)	
S811	1-572-199-11	SWITCH, KEYBOARD (CLOCK)	
S812	1-572-199-11	SWITCH, KEYBOARD (TIMER)	
S813	1-572-199-11	SWITCH, KEYBOARD (SLEEP)	
S814	1-572-199-11	SWITCH, KEYBOARD (STANDBY)	
S815	1-572-199-11	SWITCH, KEYBOARD (DISPLAY)	
S816	1-572-199-11	SWITCH, KEYBOARD (EDIT PGMCLR)	
S817	1-572-199-11	SWITCH, KEYBOARD (AUTO SPACE)	
S818	1-572-199-11	SWITCH, KEYBOARD (REPEAT 1/ALL)	
S819	1-572-199-11	SWITCH, KEYBOARD (PGM/SHUFFLE)	
S820	1-572-199-11	SWITCH, KEYBOARD (1)	
S821	1-572-199-11	SWITCH, KEYBOARD (2)	
S822	1-572-199-11	SWITCH, KEYBOARD (3)	
S823	1-572-199-11	SWITCH, KEYBOARD (4)	
S824	1-572-199-11	SWITCH, KEYBOARD (5)	
S825	1-572-199-11	SWITCH, KEYBOARD (6)	
S826	1-572-199-11	SWITCH, KEYBOARD (7)	
S827	1-572-199-11	SWITCH, KEYBOARD (8)	
S828	1-572-199-11	SWITCH, KEYBOARD (9)	
S829	1-572-199-11	SWITCH, KEYBOARD (0)	
< CRYSTAL >			
X501	1-577-556-11	VIBRATOR, CRYSTAL 75KHz	
X801	1-567-098-00	CRYSTAL 3.58MHz	

* A-3261-265-A MAIN BOARD, COMPLETE... (AEP, IT)			
* A-3261-382-A MAIN BOARD, COMPLETE... (UK)			

9-911-840-XX CUSHION (U)			
* 4-918-544-11 SPACER (T)			
ANT2	* 1-580-227-11	CONNECTOR, COAX IAL... (IT, AEP)	
< CAPACITOR >			
C1	1-161-379-00	CERAMIC	0.01uF 20% 25V
C2	1-162-294-31	CERAMIC	0.001uF 10% 50V
C3	1-124-472-11	ELECT	470uF 20% 10V
C4	1-161-379-00	CERAMIC	0.01uF 20% 25V
C5	1-162-199-31	CERAMIC	10PF 5% 50V
C6	1-162-190-31	CERAMIC	1.8PF 20% 50V
C7	1-161-379-00	CERAMIC	0.01uF 20% 25V
C8	1-162-205-31	CERAMIC	18PF 5% 50V
C9	1-124-925-11	ELECT	2.2uF 20% 100V
C10	1-124-443-00	ELECT	100uF 20% 10V

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C11	1-161-379-00	CERAMIC		C62	1-164-159-11	CERAMIC	0.1uF 50V
C12	1-161-379-00	CERAMIC		C63	1-161-379-00	CERAMIC	0.01uF 20% 25V
C13	1-161-379-00	CERAMIC		C64	1-162-294-31	CERAMIC	0.001uF 10% 50V
C14	1-124-927-11	ELECT		C65	1-162-294-31	CERAMIC	0.001uF 10% 50V
C15	1-124-791-11	ELECT		C80	1-162-197-31	CERAMIC	6.8PF 10% 50V
C16	1-124-477-11	ELECT		C101	1-124-791-11	ELECT	1.0uF 20% 100V
C17	1-124-477-11	ELECT		C102	1-162-199-31	CERAMIC	10PF 5% 50V
C18	1-161-379-00	CERAMIC		C103	1-124-927-11	ELECT	4.7uF 20% 100V
C19	1-124-791-11	ELECT		C104	1-162-215-31	CERAMIC	47PF 5% 50V
C20	1-124-902-00	ELECT		C105	1-124-902-00	ELECT	0.47uF 20% 50V
C21	1-124-927-11	ELECT		C106	1-124-902-00	ELECT	0.47uF 20% 50V
C22	1-161-055-00	CERAMIC		C107	1-124-902-00	ELECT	0.47uF 20% 50V
C23	1-161-055-00	CERAMIC		C108	1-124-902-00	ELECT	0.47uF 20% 50V
C24	1-124-902-00	ELECT		C109	1-130-476-00	MYLAR	0.0027uF 5% 50V
C25	1-124-902-00	ELECT		C110	1-162-294-31	CERAMIC	0.001uF 10% 50V
C26	1-161-379-00	CERAMIC		C111	1-124-791-11	ELECT	1.0uF 20% 100V
C27	1-161-379-00	CERAMIC		C113	1-130-492-11	MYLAR	0.056uF 5% 50V
C28	1-161-379-00	CERAMIC		C114	1-124-791-11	ELECT	1.0uF 20% 100V
C30	1-161-055-00	CERAMIC		C115	1-130-467-00	MYLAR	470PF 5% 50V
C31	1-162-209-31	CERAMIC		C116	1-136-157-00	MYLAR	0.022uF 10% 50V
C33	1-162-847-11	CERAMIC		C201	1-124-791-11	ELECT	1.0uF 20% 100V
C34	1-162-847-11	CERAMIC		C202	1-162-199-31	CERAMIC	10PF 5% 50V
C35	1-161-055-00	CERAMIC		C203	1-124-927-11	ELECT	4.7uF 20% 100V
C36	1-161-055-00	CERAMIC		C204	1-162-215-31	CERAMIC	47PF 5% 50V
C37	1-101-059-00	CERAMIC		C205	1-124-902-00	ELECT	0.47uF 20% 50V
C38	1-162-203-31	CERAMIC		C206	1-124-902-00	ELECT	0.47uF 20% 50V
C39	1-102-980-00	CERAMIC		C207	1-124-902-00	ELECT	0.47uF 20% 50V
C40	1-162-851-11	CERAMIC		C208	1-124-902-00	ELECT	0.47uF 20% 50V
C41	1-162-284-31	CERAMIC		C209	1-130-476-00	MYLAR	0.0027uF 5% 50V
C42	1-161-055-00	CERAMIC		C210	1-162-294-31	CERAMIC	0.001uF 10% 50V
C43	1-161-055-00	CERAMIC		C211	1-124-791-11	ELECT	1.0uF 20% 100V
C44	1-162-851-11	CERAMIC		C213	1-130-492-11	MYLAR	0.056uF 5% 50V
C45	1-162-215-31	CERAMIC		C214	1-124-791-11	ELECT	1.0uF 20% 100V
C46	1-162-847-11	CERAMIC		C215	1-130-467-00	MYLAR	470PF 5% 50V
C47	1-162-294-31	CERAMIC		C216	1-136-157-00	MYLAR	0.022uF 10% 50V
C48	1-162-294-31	CERAMIC		C701	1-164-159-11	CERAMIC	0.1uF 50V
C49	1-161-055-00	CERAMIC		C702	1-124-584-00	ELECT	100uF 20% 10V
C50	1-161-379-00	CERAMIC		C703	1-130-467-00	MYLAR	470PF 5% 50V
C51	1-161-379-00	CERAMIC		C704	1-130-467-00	MYLAR	470PF 5% 50V
C52	1-161-379-00	CERAMIC		C705	1-161-379-00	CERAMIC	0.01uF 20% 25V
C53	1-162-282-31	CERAMIC		C706	1-136-159-00	MYLAR	0.033uF 10% 50V
C54	1-161-379-00	CERAMIC		C707	1-126-233-11	ELECT	22uF 20% 50V
C55	1-162-294-31	CERAMIC		C708	1-130-467-00	MYLAR	470PF 5% 50V
C56	1-161-379-00	CERAMIC		C709	1-130-473-00	MYLAR	0.0015uF 5% 50V
C57	1-161-379-00	CERAMIC		C710	1-124-477-11	ELECT	47uF 20% 25V
C58	1-161-379-00	CERAMIC		C711	1-124-472-11	ELECT	470uF 20% 10V
C59	1-162-294-31	CERAMIC		C712	1-164-159-11	CERAMIC	0.1uF 50V
C60	1-162-282-31	CERAMIC		C713	1-124-927-11	ELECT	4.7uF 20% 100V
C61	1-124-477-11	ELECT		C714	1-162-294-31	CERAMIC	0.001uF 10% 50V

Ref. No.	Part No.	Description	Remark
C715	1-164-159-11	CERAMIC	0.1uF 50V
C716	1-161-379-00	CERAMIC	0.01uF 20% 25V
C717	1-162-294-31	CERAMIC	0.001uF 10% 50V
C718	1-162-294-31	CERAMIC	0.001uF 10% 50V
C719	1-162-294-31	CERAMIC	0.001uF 10% 50V
C720	1-162-294-31	CERAMIC	0.001uF 10% 50V
C721	1-136-165-00	FILM	0.1uF 5% 50V
C722	1-124-902-00	ELECT	0.47uF 20% 50V
C723	1-124-925-11	ELECT	2.2uF 20% 100V
C724	1-124-589-11	ELECT	47uF 20% 16V
C725	1-161-379-00	CERAMIC	0.01uF 20% 25V
C726	1-161-379-00	CERAMIC	0.01uF 20% 25V
C727	1-161-379-00	CERAMIC	0.01uF 20% 25V
C728	1-161-379-00	CERAMIC	0.01uF 20% 25V
C729	1-161-379-00	CERAMIC	0.01uF 20% 25V
C730	1-162-282-31	CERAMIC	100PF 10% 50V
C731	1-161-379-00	CERAMIC	0.01uF 20% 25V
C732	1-161-379-00	CERAMIC	0.01uF 20% 25V
C733	1-161-379-00	CERAMIC	0.01uF 20% 25V
C734	1-161-379-00	CERAMIC	0.01uF 20% 25V
C735	1-161-379-00	CERAMIC	0.01uF 20% 25V
C736	1-161-379-00	CERAMIC	0.01uF 20% 25V
C737	1-161-379-00	CERAMIC	0.01uF 20% 25V
C738	1-161-379-00	CERAMIC	0.01uF 20% 25V
C739	1-161-379-00	CERAMIC	0.01uF 20% 25V
C740	1-162-282-31	CERAMIC	100PF 10% 50V
C741	1-161-379-00	CERAMIC	0.01uF 20% 25V
C742	1-161-379-00	CERAMIC	0.01uF 20% 25V
C750	1-161-379-00	CERAMIC	0.01uF 20% 25V
C751	1-161-379-00	CERAMIC	0.01uF 20% 25V
C752	1-161-379-00	CERAMIC	0.01uF 20% 25V
C753	1-161-379-00	CERAMIC	0.01uF 20% 25V
C754	1-161-379-00	CERAMIC	0.01uF 20% 25V
C755	1-161-379-00	CERAMIC	0.01uF 20% 25V
C756	1-161-379-00	CERAMIC	0.01uF 20% 25V
C757	1-161-379-00	CERAMIC	0.01uF 20% 25V
C758	1-161-379-00	CERAMIC	0.01uF 20% 25V
C759	1-126-157-11	ELECT	10uF 20% 16V
C760	1-124-477-11	ELECT	47uF 20% 25V
C761	1-124-472-11	ELECT	470uF 20% 10V
C762	1-124-902-00	ELECT	0.47uF 20% 50V
C764	1-162-294-31	CERAMIC	0.001uF 10% 50V
C765	1-124-902-00	ELECT	0.47uF 20% 50V
C766	1-124-791-11	ELECT	1.0uF 20% 100V

Ref. No.	Part No.	Description	Remark
		< FILTER >	
CF1	1-579-185-21	FILTER, CERAMIC	
CF2	1-579-185-21	FILTER, CERAMIC	
CF3	1-579-185-21	FILTER, CERAMIC	
CF701	1-578-787-21	VIBRATOR, CERAMIC	
		< CONNECTOR >	
CN1	* 1-566-214-11	PIN, CONNECTOR (PC BOARD) 2P	
CN2	* 1-566-971-11	PIN, CONNECTOR (PC BOARD) 6P	
CN3	* 1-566-971-11	PIN, CONNECTOR (PC BOARD) 6P	
CN4	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN750	* 1-564-717-11	PIN, CONNECTOR (SMALL TYPE) 15P	
CN751	* 1-564-712-11	PIN, CONNECTOR (SMALL TYPE) 10P	
CN752	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
CN753	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN754	* 1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P	
CN755	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
CN756	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN757	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN758	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN759	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN760	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN761	* 1-566-973-11	PIN, CONNECTOR (PC BOARD) 8P	
CN762	* 1-568-454-11	PIN, CONNECTOR (PC BOARD) 9P	
CN763	* 1-568-454-11	PIN, CONNECTOR (PC BOARD) 9P	
CN764	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN765	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CP1	1-236-571-11	ENCAPSULATED COMPONENT	
CP2	1-236-836-11	FILTER, LOWPASS	
CP3	1-236-836-11	FILTER, LOWPASS	
		< TRIMMER >	
CT1	1-141-410-11	CAP, ADJ 10PF	
CT3	1-141-245-00	CAP, TRIMMER 30PF	
CT4	1-141-411-11	CAP, ADJ 20PF	
CT5	1-141-411-11	CAP, ADJ 20PF	
CT6	1-141-245-00	CAP, TRIMMER 30PF	
		< DIODE >	
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-911-19	DIODE 1SS119	
D3	8-719-980-65	DIODE SVC203RA-V	
D4	8-719-980-65	DIODE SVC203RA-V	
D5	8-719-911-19	DIODE 1SS119	
D6	8-719-911-19	DIODE 1SS119	
D9	8-719-911-19	DIODE 1SS119	
D10	8-719-911-19	DIODE 1SS119	
D11	8-719-911-19	DIODE 1SS119	

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q6	8-729-806-30	TRANSISTOR 2SC4048		R6	1-249-411-11	CARBON 330 5% 1/4W	
Q7	8-729-905-50	TRANSISTOR DTC343TS		R8	1-249-405-11	CARBON 100 5% 1/4W	
Q8	8-729-119-76	TRANSISTOR 2SA1175-HFE		R9	1-249-429-11	CARBON 10K 5% 1/4W	
Q9	8-729-805-39	TRANSISTOR 2SC3898		R10	1-249-418-11	CARBON 1.2K 5% 1/4W	
Q10	8-729-119-76	TRANSISTOR 2SA1175-HFE		R11	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q11	8-729-805-39	TRANSISTOR 2SC3898		R12	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q12	8-729-672-42	TRANSISTOR 2SC2724-C		R13	1-249-418-11	CARBON 1.2K 5% 1/4W	
Q13	8-729-672-42	TRANSISTOR 2SC2724-C		R14	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q14	8-729-178-62	TRANSISTOR 2SC2786-L		R15	1-247-887-00	CARBON 220K 5% 1/4W	
Q15	8-729-672-42	TRANSISTOR 2SC2724-C		R16	1-247-887-00	CARBON 220K 5% 1/4W	
Q16	8-729-178-63	TRANSISTOR 2SC2786-K		R17	1-249-405-11	CARBON 100 5% 1/4W	
Q17	8-729-672-42	TRANSISTOR 2SC2724-C		R18	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q18	8-729-806-30	TRANSISTOR 2SC4048		R19	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE		R20	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE		R21	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q104	8-729-806-30	TRANSISTOR 2SC4048		R22	1-249-435-11	CARBON 33K 5% 1/4W	
Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE		R23	1-249-429-11	CARBON 10K 5% 1/4W	
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE		R24	1-249-429-11	CARBON 10K 5% 1/4W	
Q204	8-729-806-30	TRANSISTOR 2SC4048		R25	1-249-405-11	CARBON 100 5% 1/4W	
Q701	8-729-206-35	TRANSISTOR RN2206		R26	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q702	8-729-206-35	TRANSISTOR RN2206		R28	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q703	8-729-900-85	TRANSISTOR DTC144WS		R29	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q704	8-729-206-35	TRANSISTOR RN2206		R30	1-249-427-11	CARBON 6.8K 5% 1/4W	
Q705	8-729-806-30	TRANSISTOR 2SC4048		R31	1-249-405-11	CARBON 100 5% 1/4W	
Q706	8-729-900-85	TRANSISTOR DTC144WS		R32	1-249-405-11	CARBON 100 5% 1/4W	
Q707	8-729-206-35	TRANSISTOR RN2206		R33	1-249-429-11	CARBON 10K 5% 1/4W	
Q708	8-729-206-35	TRANSISTOR RN2206		R35	1-249-401-11	CARBON 47 5% 1/4W	
Q709	8-729-206-35	TRANSISTOR RN2206		R36	1-249-396-11	CARBON 18 5% 1/6W	
Q710	8-729-206-35	TRANSISTOR RN2206		R37	1-249-402-11	CARBON 56 5% 1/4W	
Q711	8-729-206-35	TRANSISTOR RN2206		R38	1-249-396-11	CARBON 18 5% 1/6W	
Q712	8-729-206-35	TRANSISTOR RN2206		R39	1-247-887-00	CARBON 220K 5% 1/4W	
Q713	8-729-119-76	TRANSISTOR 2SA1175-HFE		R40	1-249-441-11	CARBON 100K 5% 1/4W	
Q714	8-729-806-30	TRANSISTOR 2SC4048		R41	1-247-887-00	CARBON 220K 5% 1/4W	
Q716	8-729-206-35	TRANSISTOR RN2206		R42	1-249-418-11	CARBON 1.2K 5% 1/4W	
Q717	8-729-806-30	TRANSISTOR 2SC4048		R43	1-249-418-11	CARBON 1.2K 5% 1/4W	
Q718	8-729-206-35	TRANSISTOR RN2206		R44	1-249-405-11	CARBON 100 5% 1/4W	
Q720	8-729-806-30	TRANSISTOR 2SC4048		R45	1-249-401-11	CARBON 47 5% 1/4W	
Q721	8-729-900-85	TRANSISTOR DTC144WS		R46	1-249-422-11	CARBON 2.7K 5% 1/4W	
Q724	8-729-206-35	TRANSISTOR RN22061		R47	1-249-437-11	CARBON 47K 5% 1/4W	
Q725	8-729-206-35	TRANSISTOR RN22061		R48	1-249-417-11	CARBON 1K 5% 1/4W	
Q726	8-729-206-35	TRANSISTOR RN22061		R49	1-249-429-11	CARBON 10K 5% 1/4W	
< RESISTOR >				R50	1-249-409-11	CARBON 220 5% 1/4W... (IT, AEP)	
R1	1-249-441-11	CARBON	100K 5% 1/4W	R51	1-249-405-11	CARBON 100 5% 1/4W	
R2	1-249-441-11	CARBON	100K 5% 1/4W	R52	1-249-437-11	CARBON 47K 5% 1/4W	
R3	1-249-431-11	CARBON	15K 5% 1/4W	R53	1-249-417-11	CARBON 1K 5% 1/4W	
R4	1-249-441-11	CARBON	100K 5% 1/4W	R54	1-249-437-11	CARBON 47K 5% 1/4W	
R5	1-249-421-11	CARBON	2.2K 5% 1/4W	R55	1-249-417-11	CARBON 1K 5% 1/4W	
				R56	1-249-405-11	CARBON 100 5% 1/4W	
				R57	1-249-437-11	CARBON 47K 5% 1/4W	

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R58	1-249-417-11	CARBON	1K 5% 1/4W	R709	1-249-440-11	CARBON	82K 5% 1/4W
R59	1-249-411-11	CARBON	330 5% 1/4W	R710	1-247-903-00	CARBON	1M 5% 1/4W
R60	1-249-417-11	CARBON	1K 5% 1/4W	R711	1-249-433-11	CARBON	22K 5% 1/4W
R61	1-249-439-11	CARBON	68K 5% 1/4W	R712	1-249-439-11	CARBON	68K 5% 1/4W
R62	1-249-417-11	CARBON	1K 5% 1/4W	R713	1-249-437-11	CARBON	47K 5% 1/4W
R63	1-249-426-11	CARBON	5.6K 5% 1/4W	R714	1-249-425-11	CARBON	4.7K 5% 1/4W
R64	1-249-417-11	CARBON	1K 5% 1/4W	R715	1-249-437-11	CARBON	47K 5% 1/4W
R65	1-249-439-11	CARBON	68K 5% 1/4W	R716	1-247-903-00	CARBON	1M 5% 1/4W
R67	1-249-405-11	CARBON	100 5% 1/4W	R717	1-249-437-11	CARBON	47K 5% 1/4W
R68	1-249-437-11	CARBON	47K 5% 1/4W	R718	1-249-437-11	CARBON	47K 5% 1/4W
R69	1-249-426-11	CARBON	5.6K 5% 1/4W	R719	1-249-437-11	CARBON	47K 5% 1/4W
R101	1-249-441-11	CARBON	100K 5% 1/4W	R720	1-249-417-11	CARBON	1K 5% 1/4W
R102	1-247-903-00	CARBON	1M 5% 1/4W	R721	1-249-417-11	CARBON	1K 5% 1/4W
R103	1-249-426-11	CARBON	5.6K 5% 1/4W	R722	1-247-891-00	CARBON	330K 5% 1/4W
R104	1-249-428-11	CARBON	8.2K 5% 1/4W	R723	1-249-405-11	CARBON	100 5% 1/4W
R105	1-249-435-11	CARBON	33K 5% 1/4W	R724	1-249-418-11	CARBON	1.2K 5% 1/4W
R106	1-249-433-11	CARBON	22K 5% 1/4W	R725	1-249-437-11	CARBON	47K 5% 1/4W
R107	1-249-429-11	CARBON	10K 5% 1/4W	R726	1-249-416-11	CARBON	820 5% 1/4W
R108	1-249-429-11	CARBON	10K 5% 1/4W	R727	1-249-418-11	CARBON	1.2K 5% 1/4W
R109	1-249-441-11	CARBON	100K 5% 1/4W	R728	1-249-412-11	CARBON	390 5% 1/4W
R110	1-249-434-11	CARBON	27K 5% 1/4W	R729	1-249-417-11	CARBON	1K 5% 1/4W
R111	1-249-437-11	CARBON	47K 5% 1/4W	R730	1-249-417-11	CARBON	1K 5% 1/4W
R112	1-249-425-11	CARBON	4.7K 5% 1/4W	R731	1-247-887-00	CARBON	220K 5% 1/4W
R113	1-247-852-11	CARBON	7.5K 5% 1/4W	R732	1-249-429-11	CARBON	10K 5% 1/4W
R115	1-249-437-11	CARBON	47K 5% 1/4W	R733	1-249-417-11	CARBON	1K 5% 1/4W
R116	1-249-435-11	CARBON	33K 5% 1/4W	R734	1-249-439-11	CARBON	68K 5% 1/4W
R201	1-249-441-11	CARBON	100K 5% 1/4W	R735	1-249-429-11	CARBON	10K 5% 1/4W
R202	1-247-903-00	CARBON	1M 5% 1/4W	R736	1-249-426-11	CARBON	5.6K 5% 1/4W
R203	1-249-426-11	CARBON	5.6K 5% 1/4W	R737	1-249-405-11	CARBON	100 5% 1/4W
R204	1-249-428-11	CARBON	8.2K 5% 1/4W	R738	1-249-405-11	CARBON	100 5% 1/4W
R205	1-249-435-11	CARBON	33K 5% 1/4W	R739	1-249-393-11	CARBON	10 5% 1/4W
R206	1-249-433-11	CARBON	22K 5% 1/4W	R740	1-249-393-11	CARBON	10 5% 1/4W
R207	1-249-429-11	CARBON	10K 5% 1/4W	R741	1-247-895-00	CARBON	470K 5% 1/4W
R208	1-249-429-11	CARBON	10K 5% 1/4W			< VARIABLE RESISTOR >	
R209	1-249-441-11	CARBON	100K 5% 1/4W	RV1	1-238-601-11	RES. ADJ. CARBON 22K	
R210	1-249-434-11	CARBON	27K 5% 1/4W			< SWITCH >	
R211	1-249-437-11	CARBON	47K 5% 1/4W	S1	1-572-622-11	SWITCH, SLIDE (FM SENS)	
R212	1-249-425-11	CARBON	4.7K 5% 1/4W	S701	1-571-307-11	SWITCH, SLIDE (FM ISS SW)	
R213	1-247-852-11	CARBON	7.5K 5% 1/4W			< COIL >	
R215	1-249-437-11	CARBON	47K 5% 1/4W	T1	1-406-400-11	COIL (OSC)	
R216	1-249-435-11	CARBON	33K 5% 1/4W	T2	1-406-399-11	COIL (OSC)	
R701	1-249-437-11	CARBON	47K 5% 1/4W			*****	
R702	1-249-437-11	CARBON	47K 5% 1/4W				
R703	1-249-437-11	CARBON	47K 5% 1/4W				
R704	1-249-437-11	CARBON	47K 5% 1/4W				
R705	1-249-437-11	CARBON	47K 5% 1/4W				
R706	1-249-437-11	CARBON	47K 5% 1/4W				
R707	1-249-429-11	CARBON	10K 5% 1/4W				
R708	1-247-899-11	CARBON	680K 5% 1/4W				

MD CONTROL

POWER 1

Ref. No.	Part No.	Description	Remark
	* A-3289-767-A	MD CONTROL BOARD, COMPLETE... (AEP. 1T)	
	* A-3261-378-A	MD CONTROL BOARD, COMPLETE... (UK)	

< CONNECTOR >			
CN609	* 1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P	
< DIODE >			
D650	8-719-971-50	LED MBG3371X	
D651	8-719-971-52	LED MAY3371X	
D652	8-719-971-50	LED MBG3371X	
D653	8-719-971-52	LED MAY3371X	
D654	8-719-911-19	DIODE 1SS119	
D655	8-719-911-19	DIODE 1SS119	
D656	8-719-971-52	LED MAY3371X	
D657	8-719-980-98	LED MVR3371X	
D658	8-719-971-50	LED MBG3371X	
D659	8-719-980-98	LED MVR3371X	
D660	8-719-971-52	LED MAY3371X	
D661	8-719-971-50	LED MBG3371X	
D662	8-719-911-19	DIODE 1SS119	
D663	8-719-911-19	DIODE 1SS119	
D664	8-719-911-19	DIODE 1SS119	
D665	8-719-911-19	DIODE 1SS119	
< RESISTOR >			
R660	1-249-412-11	CARBON 390 5% 1/4W	
R661	1-249-412-11	CARBON 390 5% 1/4W	
R662	1-249-412-11	CARBON 390 5% 1/4W	
R663	1-249-412-11	CARBON 390 5% 1/4W	
R664	1-249-412-11	CARBON 390 5% 1/4W	
R665	1-249-419-11	CARBON 1.5K 5% 1/4W	
R666	1-249-412-11	CARBON 390 5% 1/4W	
R667	1-249-419-11	CARBON 1.5K 5% 1/4W	
R668	1-249-412-11	CARBON 390 5% 1/4W	
R669	1-249-412-11	CARBON 390 5% 1/4W	
R670	1-249-429-11	CARBON 10K 5% 1/4W	
R671	1-249-429-11	CARBON 10K 5% 1/4W	
R672	1-249-429-11	CARBON 10K 5% 1/4W	
< SWITCH >			
S601	1-572-199-11	SWITCH, KEYBOARD (DECK A)	
S602	1-572-199-11	SWITCH, KEYBOARD (DECK B)	
S603	1-572-199-11	SWITCH, KEYBOARD (HIGH)	
S604	1-572-199-11	SWITCH, KEYBOARD (NORMAL)	
S605	1-572-199-11	SWITCH, KEYBOARD (FF)	
S606	1-572-199-11	SWITCH, KEYBOARD (REW)	

Ref. No.	Part No.	Description	Remark
S607	1-572-199-11	SWITCH, KEYBOARD (FORWARD)	
S608	1-572-199-11	SWITCH, KEYBOARD (REVERSE)	
S609	1-572-199-11	SWITCH, KEYBOARD (STOP)	
S610	1-572-199-11	SWITCH, KEYBOARD (PAUSE)	
S611	1-572-199-11	SWITCH, KEYBOARD (REC)	
S612	1-572-199-11	SWITCH, KEYBOARD (AUTO PLAY)	
S613	1-572-347-11	SWITCH, SLIDE (AUTO SKIP)	
S614	1-572-347-11	SWITCH, SLIDE (DOLBY NR)	
S615	1-572-348-11	SWITCH, SLIDE (DIR MODE)	
< CONNECTOR >			
W602	* 1-563-731-21	SOCKET, CONNECTOR 19P	

	* 1-635-038-31	POWER 1 BOARD	

	* 1-533-189-11	HOLDER, FUSE	
	7-685-646-79	SCREW, TAPPING +BV 3X8	
< CAPACITOR >			
C901	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C902	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C903	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C904	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C905	1-124-771-00	ELECT 6800uF 20% 25V	
C907	1-136-165-00	FILM 0.1uF 5% 50V	
< CONNECTOR >			
CN901	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN901	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN902	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
CN902	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
< DIODE >			
D901	8-719-302-38	DIODE RBV-602-01	
D902	8-719-500-70	DIODE D5S4M	
< JACK >			
J901	△ 1-526-838-11	INLET, AC 2P (AC IN)	
< FILTER >			
LF901	△ 1-424-375-11	COIL, LINE FILTER	

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

POWER 2

Ref. No.	Part No.	Description	Remark
		* A-3261-268-A POWER 2 BOARD, COMPLETE... (AEP, IT)	
		* A-3261-371-A POWER 2 BOARD, COMPLETE... (UK)	

		7-685-646-79 SCREW, TAPPING +BV 3X8	
		7-685-647-79 SCREW, TAPPING +BV 3X10	
		* 4-937-671-01 HEAT SINK (D)	
		* 4-937-672-01 HEAT SINK (E)	
		* 4-937-673-01 HEAT SINK (F)	
		< CAPACITOR >	
C116	1-124-927-11	ELECT	4.7uF 20% 100V
C117	1-162-294-31	CERAMIC	0.001uF 10% 50V
C118	1-126-101-11	ELECT	100uF 20% 16V
C119	1-162-294-31	CERAMIC	0.001uF 10% 50V
C120	1-136-165-00	MYLAR	0.1uF 10% 50V
C121	1-162-294-31	CERAMIC	0.001uF 10% 50V
C123	1-124-478-11	ELECT	100uF 20% 25V
C124	1-136-159-00	MYLAR	0.033uF 10% 50V
C125	1-124-477-11	ELECT	47uF 20% 25V
C126	1-124-478-11	ELECT	100uF 20% 25V
C127	1-136-159-00	MYLAR	0.033uF 10% 50V
C216	1-124-927-11	ELECT	4.7uF 20% 100V
C217	1-162-294-31	CERAMIC	0.001uF 10% 50V
C218	1-126-101-11	ELECT	100uF 20% 16V
C219	1-162-294-31	CERAMIC	0.001uF 10% 50V
C220	1-136-165-00	MYLAR	0.1uF 10% 50V
C221	1-162-294-31	CERAMIC	0.001uF 10% 50V
C223	1-124-478-11	ELECT	100uF 20% 25V
C224	1-136-159-00	MYLAR	0.033uF 10% 50V
C225	1-124-477-11	ELECT	47uF 20% 25V
C226	1-124-478-11	ELECT	100uF 20% 25V
C227	1-136-159-00	MYLAR	0.033uF 10% 50V
C406	1-123-875-11	ELECT	10uF 20% 50V
C407	1-124-119-00	ELECT	330uF 20% 16V
C408	1-124-120-11	ELECT	220uF 20% 25V
C409	1-124-636-00	ELECT	3300uF 20% 25V
C410	1-124-902-00	ELECT	0.47uF 20% 50V
C411	1-124-126-00	ELECT	47uF 20% 10V
C412	1-124-126-00	ELECT	47uF 20% 10V
C413	1-124-120-11	ELECT	220uF 20% 25V
C414	1-126-101-11	ELECT	100uF 20% 16V
C415	1-161-379-00	CERAMIC	0.01uF 20% 25V
C416	1-161-379-00	CERAMIC	0.01uF 20% 25V
C417	1-136-167-00	FILM	0.15uF 5% 50V
C418	1-136-167-00	FILM	0.15uF 5% 50V
C419	1-124-477-11	ELECT	47uF 20% 25V
C420	1-161-379-00	CERAMIC	0.01uF 20% 25V
C421	1-161-379-00	CERAMIC	0.01uF 20% 25V
C422	1-161-379-00	CERAMIC	0.01uF 20% 25V

Ref. No.	Part No.	Description	Remark
C423	1-161-379-00	CERAMIC	0.01uF 20% 25V
C424	1-124-360-00	ELECT	1000uF 20% 16V
C425	1-126-101-11	ELECT	100uF 20% 16V
C426	1-161-379-00	CERAMIC	0.01uF 20% 25V
C427	1-124-472-11	ELECT	470uF 20% 10V
C428	1-124-472-11	ELECT	470uF 20% 10V
C429	1-161-379-00	CERAMIC	0.01uF 20% 25V
C430	1-124-472-11	ELECT	470uF 20% 10V
C431	1-162-294-31	CERAMIC	0.001uF 10% 50V
C432	1-161-379-00	CERAMIC	0.01uF 20% 25V
C433	1-124-472-11	ELECT	470uF 20% 10V
C437	1-161-379-00	CERAMIC	0.01uF 20% 25V
C438	1-161-379-00	CERAMIC	0.01uF 20% 25V
C439	1-161-379-00	CERAMIC	0.01uF 20% 25V
C440	1-161-379-00	CERAMIC	0.01uF 20% 25V
C441	1-124-477-11	ELECT	47uF 20% 25V
C442	1-162-280-31	CERAMIC	82PF 10% 50V
C443	1-162-211-31	CERAMIC	33PF 5% 50V
C444	1-161-021-11	CERAMIC	0.047uF 10% 25V
C445	1-124-473-11	ELECT	1000uF 20% 10V
C446	1-161-055-00	CERAMIC	0.022uF 10% 50V
C447	1-161-055-00	CERAMIC	0.022uF 10% 50V
C448	1-161-379-00	CERAMIC	0.01uF 20% 25V
C450	1-161-494-00	CERAMIC	0.022uF 25V

< CONNECTOR >

CN407	* 1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
CN408	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
CN409	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
CN410	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CN411	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CN412	* 1-564-717-11	PIN, CONNECTOR (SMALL TYPE) 15P
CN413	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN414	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
CN415	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
CN416	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN417	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P

< DIODE >

D401	8-719-110-03	DIODE RD7.5ES-B2
D402	8-719-911-19	DIODE 1SS119
D405	8-719-911-19	DIODE 1SS119
D406	8-719-911-19	DIODE 1SS119
D407	8-719-911-19	DIODE 1SS119
D408	8-719-911-19	DIODE 1SS119
D409	8-719-911-19	DIODE 1SS119
D410	8-719-911-19	DIODE 1SS119
D412	8-719-974-59	DIODE 1SR139-100
D413	8-719-974-59	DIODE 1SR139-100

POWER2

READER DETECTION

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D414	8-719-974-59	DIODE 1SR139-100				< RESISTOR >	
D415	8-719-974-59	DIODE 1SR139-100		R104	1-249-411-11	CARBON 330 5% 1/4W	
D416	8-719-109-89	DIODE RD5. 6ES-B2		R105	1-249-417-11	CARBON 1K 5% 1/4W	
D417	8-719-109-93	DIODE RD6. 2ES-B2		R107	1-249-385-11	CARBON 2.2 5% 1/6W	
D418	8-719-110-08	DIODE RD8. 2ES-B2		R108	1-249-405-11	CARBON 100 5% 1/4W	
D420	8-719-974-59	DIODE 1SR139-100		R109	1-249-417-11	CARBON 1K 5% 1/4W	
D421	8-719-911-19	DIODE 1SS119		R110	1-249-385-11	CARBON 2.2 5% 1/6W	
D422	8-719-911-19	DIODE 1SS119		R204	1-249-411-11	CARBON 330 5% 1/4W	
D423	8-719-911-19	DIODE 1SS119		R205	1-249-417-11	CARBON 1K 5% 1/4W	
D424	8-719-911-19	DIODE 1SS119		R207	1-249-385-11	CARBON 2.2 5% 1/6W	
D425	8-719-911-19	DIODE 1SS119		R208	1-249-405-11	CARBON 100 5% 1/4W	
D426	8-719-110-46	DIODE RD16ES-B3		R209	1-249-417-11	CARBON 1K 5% 1/4W	
D427	8-719-911-19	DIODE 1SS119		R210	1-249-385-11	CARBON 2.2 5% 1/6W	
D428	8-719-911-19	DIODE 1SS119		R405	1-249-429-11	CARBON 10K 5% 1/4W	
D429	8-719-911-19	DIODE 1SS119		R406	1-249-437-11	CARBON 47K 5% 1/4W	
		< IC >		R407	1-249-409-11	CARBON 220 5% 1/4W	
IC403	8-759-822-51	IC LA4620		R408	1-249-402-11	CARBON 56 5% 1/4W	
IC404	8-759-996-77	IC BA3924		R412	1-249-417-11	CARBON 1K 5% 1/4W	
IC405	8-759-998-09	IC S-80741AL		R414	1-249-409-11	CARBON 220 5% 1/4W	
IC406	8-759-912-55	IC S-81250HG		R415	1-249-417-11	CARBON 1K 5% 1/4W	
IC407	8-759-995-65	IC RE5RA30AA-TZ		R416	1-249-414-11	CARBON 560 5% 1/4W	
IC408	8-759-996-21	IC RE5RA50A0		R417	1-249-417-11	CARBON 1K 5% 1/4W	
IC409	8-759-996-21	IC RE5RA50A0		R418	1-249-429-11	CARBON 10K 5% 1/4W	
		< COIL >		R419	1-249-409-11	CARBON 220 5% 1/4W	
L404	1-410-979-11	INDUCTOR 220uH		R420	△ 1-217-637-00	FUSIBLE 1 5% 1/4W F	
L406	1-410-521-11	INDUCTOR 100uH		R421	1-249-409-11	CARBON 220 5% 1/4W	
		< IC LINK >		R422	△ 1-217-640-11	FUSIBLE 3.3 5% 1/4W F	
PS401	△ 1-532-685-00	LINK, IC ICP-N20 (0. 8A)		R424	1-249-417-11	CARBON 1K 5% 1/4W	
PS402	△ 1-532-727-11	LINK, IC ICP-N5 (0. 25A)		R425	1-249-441-11	CARBON 100K 5% 1/4W	
		< TRANSISTOR >		R426	1-249-440-11	CARBON 82K 5% 1/4W	
Q401	8-729-924-90	TRANSISTOR 2SB1370-EF		R427	1-249-437-11	CARBON 47K 5% 1/4W	
Q402	8-729-925-60	TRANSISTOR DTA143ZS		R428	1-249-405-11	CARBON 100 5% 1/4W	
Q403	8-729-806-30	TRANSISTOR 2SC4048		R429	1-249-387-11	CARBON 3.3 5% 1/4W	
Q404	8-729-115-27	TRANSISTOR BN1L3Z-P		R430	1-249-429-11	CARBON 10K 5% 1/4W	
Q405	8-729-900-85	TRANSISTOR DTC144WS				< TERMINAL >	
Q406	8-729-142-46	TRANSISTOR 2SC2001-LK		SPJ1	1-537-238-11	TERMINAL BOARD	
Q407	8-729-107-26	TRANSISTOR 2SD1585-K				< TRANSFORMER >	
Q408	8-729-801-84	TRANSISTOR 2SB1013-34		T401	1-450-126-11	TRANSFORMER, DC-DC CONVERTER	
Q409	8-729-806-30	TRANSISTOR 2SC4048				*****	
Q410	8-729-806-30	TRANSISTOR 2SC4048				* 1-635-577-11 PC BOARD, READER DETECTION	
Q411	8-729-107-26	TRANSISTOR 2SD1585-K				*****	
Q412	8-729-107-26	TRANSISTOR 2SD1585-K				< PHOTO INTERRUPTER >	
Q414	8-729-119-78	TRANSISTOR 2SC2785-HFE		PH901	8-719-939-11	PHOTOINTERRUPTER GP-2S09-B... (DECK B)	
Q415	8-729-119-78	TRANSISTOR 2SC2785-HFE				*****	

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

RELAY B

RELAY A

TC

Ref. No.	Part No.	Description	Remark
* 1-635-162-11		RELAY B BOARD... (DECK B) *****	
	3-360-345-01	HOLDER (PHOTO)	
	9-911-839-99	CUSHION (RM)	
		< CONNECTOR >	
CN691	* 1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P	
CN692	* 1-564-725-11	PIN, CONNECTOR (SMALL TYPE) 9P	
		< DIODE >	
D691	8-719-974-59	DIODE 1SR139-100	
PH691	8-719-939-11	PHOTOINTERRUPTER GP-2S09-B... (DECK B)	
		< SWITCH >	
S691	1-572-248-11	SWITCH, LEAF (REC A)	
S696	1-571-263-11	SWITCH (STOP SW)	

* 1-635-163-11		RELAY A BOARD... (DECK A) *****	
	3-360-345-01	HOLDER (PHOTO)	
	3-364-125-01	CUSHION (RM)	
		< CONNECTOR >	
CN681	* 1-564-723-11	PIN, CONNECTOR (SMALL TYPE) 7P	
CN682	* 1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	
		< DIODE >	
D681	8-719-974-59	DIODE 1SR139-100	
PH681	8-719-939-11	PHOTOINTERRUPTER GP-2S09-B... (DECKA)	
		< SWITCH >	
S681	1-572-248-11	SWITCH, LEAF (HALF)	
S682	1-572-248-11	SWITCH, LEAF (NOE/CRO)	
S683	1-571-263-11	SWITCH (STOP SW)	
S692	1-572-248-11	SWITCH, LEAF (REC B)	
S693	1-572-248-11	SWITCH, LEAF (HALF)	
S694	1-572-248-11	SWITCH, LEAF (NOR/CRO)	

	* A-3261-433-A	TC BOARD, COMPLETE... (AEP, IT)	
	* A-3261-380-A	TC BOARD, COMPLETE... (UK)	

Ref. No.	Part No.	Description	Remark
		< CAPACITOR >	
C101	1-162-287-31	CERAMIC	270PF 10% 50V
C102	1-162-286-31	CERAMIC	220PF 10% 50V
C103	1-124-927-11	ELECT	4.7uF 20% 100V
C104	1-162-290-31	CERAMIC	470PF 10% 50V
C105	1-124-927-11	ELECT	4.7uF 20% 100V
C106	1-124-443-00	ELECT	100uF 20% 10V
C107	1-130-483-00	MYLAR	0.01uF 5% 50V
C108	1-124-927-11	ELECT	4.7uF 20% 100V
C109	1-124-791-11	ELECT	1.0uF 20% 100V
C110	1-162-285-31	CERAMIC	180PF 10% 50V
C111	1-124-927-11	ELECT	4.7uF 20% 100V
C112	1-162-285-31	CERAMIC	180PF 10% 50V
C113	1-124-927-11	ELECT	4.7uF 20% 100V
C114	1-124-927-11	ELECT	4.7uF 20% 100V
C115	1-124-927-11	ELECT	4.7uF 20% 100V
C116	1-124-927-11	ELECT	4.7uF 20% 100V
C117	1-131-587-11	TANTALUM	0.68uF 10% 35V
C118	1-123-875-11	ELECT	10uF 20% 50V
C119	1-124-902-00	ELECT	0.47uF 20% 50V
C120	1-124-791-11	ELECT	1.0uF 20% 100V
C121	1-162-282-31	CERAMIC	100PF 10% 50V
C122	1-124-791-11	ELECT	1.0uF 20% 100V
C123	1-130-483-00	MYLAR	0.01uF 5% 50V
C124	1-130-468-00	MYLAR	560PF 5% 50V
C125	1-162-285-31	CERAMIC	180PF 10% 50V
C126	1-162-286-31	CERAMIC	220PF 10% 50V
C127	1-162-282-31	CERAMIC	100PF 10% 50V
C128	1-162-285-31	CERAMIC	180PF 10% 50V
C201	1-162-287-31	CERAMIC	270PF 10% 50V
C202	1-162-286-31	CERAMIC	220PF 10% 50V
C203	1-124-927-11	ELECT	4.7uF 20% 100V
C204	1-162-290-31	CERAMIC	470PF 10% 50V
C205	1-124-927-11	ELECT	4.7uF 20% 100V
C206	1-124-443-00	ELECT	100uF 20% 10V
C207	1-130-483-00	MYLAR	0.01uF 5% 50V
C208	1-124-927-11	ELECT	4.7uF 20% 100V
C209	1-124-791-11	ELECT	1.0uF 20% 100V
C210	1-162-285-31	CERAMIC	180PF 10% 50V
C211	1-124-927-11	ELECT	4.7uF 20% 100V
C212	1-162-285-31	CERAMIC	180PF 10% 50V
C213	1-124-927-11	ELECT	4.7uF 20% 100V
C214	1-124-927-11	ELECT	4.7uF 20% 100V
C215	1-124-927-11	ELECT	4.7uF 20% 100V
C216	1-124-927-11	ELECT	4.7uF 20% 100V
C217	1-131-587-11	TANTALUM	0.68uF 10% 35V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C218	1-123-875-11	ELECT	10uF 20% 50V	C609	1-124-902-00	ELECT	0.47uF 20% 50V
C219	1-124-902-00	ELECT	0.47uF 20% 50V	C610	1-126-233-11	ELECT	22uF 20% 50V
C220	1-124-791-11	ELECT	1.0uF 20% 100V	C611	1-126-233-11	ELECT	22uF 20% 50V
C221	1-162-282-31	CERAMIC	100PF 10% 50V	C612	1-124-791-11	ELECT	1.0uF 20% 100V
C222	1-124-791-11	ELECT	1.0uF 20% 100V	C613	1-124-791-11	ELECT	1.0uF 20% 100V
C223	1-130-483-00	MYLAR	0.01uF 5% 50V	C614	1-124-477-11	ELECT	47uF 20% 25V
C224	1-130-468-00	MYLAR	560PF 5% 50V	C615	1-161-051-00	CERAMIC	0.01uF 10% 50V
C225	1-162-285-31	CERAMIC	180PF 10% 50V	C616	1-161-051-00	CERAMIC	0.01uF 10% 50V
C226	1-162-286-31	CERAMIC	220PF 10% 50V	C617	1-124-791-11	ELECT	1.0uF 20% 100V
C227	1-162-282-31	CERAMIC	100PF 10% 50V	C618	1-124-791-11	ELECT	1.0uF 20% 100V
C228	1-162-285-31	CERAMIC	180PF 10% 50V	C619	1-124-902-00	ELECT	0.47uF 20% 50V
C301	1-124-927-11	ELECT	4.7uF 20% 100V	C620	1-123-875-11	ELECT	10uF 20% 50V
C302	1-124-443-00	ELECT	100uF 20% 10V	C621	1-123-875-11	ELECT	10uF 20% 50V
C303	1-124-927-11	ELECT	4.7uF 20% 100V	C622	1-136-174-00	FILM	0.56uF 5% 50V
C304	1-124-443-00	ELECT	100uF 20% 10V	C623	1-136-174-00	FILM	0.56uF 5% 50V
C306	1-124-791-11	ELECT	1.0uF 20% 100V	C624	1-124-477-11	ELECT	47uF 20% 25V
C307	1-124-791-11	ELECT	1.0uF 20% 100V	C625	1-162-851-11	CERAMIC	0.1uF 10% 16V
C308	1-162-282-31	CERAMIC	100PF 10% 50V	C626	1-162-851-11	CERAMIC	0.1uF 10% 16V
C309	1-124-443-00	ELECT	100uF 20% 10V	C627	1-161-021-11	CERAMIC	0.047uF 10% 25V
C310	1-126-176-11	ELECT	220uF 20% 10V	C628	1-124-902-00	ELECT	0.47uF 20% 50V
C311	1-124-443-00	ELECT	100uF 20% 10V	C629	1-124-791-11	ELECT	1.0uF 20% 100V
C312	1-124-902-00	ELECT	0.47uF 20% 50V	C630	1-124-791-11	ELECT	1.0uF 20% 100V
C313	1-124-443-00	ELECT	100uF 20% 10V	C631	1-124-791-11	ELECT	1.0uF 20% 100V
C314	1-126-176-11	ELECT	220uF 20% 10V	C632	1-124-443-00	ELECT	100uF 20% 10V
C315	1-162-282-31	CERAMIC	100PF 10% 50V	C633	1-124-791-11	ELECT	1.0uF 20% 100V
C316	1-136-165-00	FILM	0.1uF 5% 50V	C634	1-124-791-11	ELECT	1.0uF 20% 100V
C317	1-124-927-11	ELECT	4.7uF 20% 100V	C635	1-124-598-11	ELECT	22uF 20% 25V
C318	1-124-443-00	ELECT	100uF 20% 10V	C636	1-124-598-11	ELECT	22uF 20% 25V
C319	1-124-927-11	ELECT	4.7uF 20% 100V	C637	1-123-875-11	ELECT	10uF 20% 50V
C320	1-123-875-11	ELECT	10uF 20% 50V	C638	1-162-851-11	CERAMIC	0.1uF 16V
C321	1-123-875-11	ELECT	10uF 20% 50V	C639	1-136-157-00	MYLAR	0.022uF 10% 50V
C323	1-124-791-11	ELECT	1.0uF 20% 100V	C640	1-136-157-00	MYLAR	0.022uF 10% 50V
C324	1-124-443-00	ELECT	100uF 20% 10V	C643	1-162-851-11	CERAMIC	0.1uF 16V
C325	1-124-477-11	ELECT	47uF 20% 25V	C690	1-123-875-11	ELECT	10uF 20% 50V
C327	1-161-049-00	CERAMIC	0.0068uF 10% 50V	< CONNECTOR >			
C328	1-161-049-00	CERAMIC	0.0068uF 10% 50V	CN301	* 1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P	
C329	1-124-477-11	ELECT	47uF 20% 25V	CN302	* 1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P	
C330	1-130-482-00	MYLAR	0.0082uF 5% 50V	CN303	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
C331	1-123-875-11	ELECT	10uF 20% 50V	CN304	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
C332	1-124-477-11	ELECT	47uF 20% 25V	CN305	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
C333	1-124-902-00	ELECT	0.47uF 20% 50V	CN601	* 1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P	
C601	1-124-477-11	ELECT	47uF 20% 25V	CN602	* 1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
C602	1-124-963-11	ELECT	33uF 20% 16V	CN603	* 1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
C603	1-161-379-00	CERAMIC	0.01uF 20% 25V	CN604	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
C604	1-124-791-11	ELECT	1.0uF 20% 100V	CN605	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
C605	1-124-927-11	ELECT	4.7uF 20% 100V	CN606	* 1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P	
C606	1-131-349-00	TANTALUM	2.2uF 10% 35V	CN607	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
C607	1-130-482-00	MYLAR	0.0082uF 5% 50V	CN608	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
C608	1-130-491-00	MYLAR	0.047uF 5% 50V				

TC

Ref. No.	Part No.	Description	Remark
CN610	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN611	* 1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
CN614	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN615	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN616	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN617	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN618	* 1-560-456-00	PIN, CONNECTOR 2P	
CN620	* 1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN621	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
< DIODE >			
D301	8-719-109-69	DIODE RD3. 6ES-B2	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-911-19	DIODE 1SS119	
D601	8-719-911-19	DIODE 1SS119	
D602	8-719-911-19	DIODE 1SS119	
D603	8-719-911-19	DIODE 1SS119	
D604	8-719-109-60	DIODE RD2. 7ES-B2	
D605	8-719-911-19	DIODE 1SS119	
D606	8-719-911-19	DIODE 1SS119	
D607	8-719-911-19	DIODE 1SS119	
D608	8-719-911-19	DIODE 1SS119	
D609	8-719-911-19	DIODE 1SS119	
D610	8-719-911-19	DIODE 1SS119	
D611	8-719-911-19	DIODE 1SS119	
D612	8-719-911-19	DIODE 1SS119	
D614	8-719-911-19	DIODE 1SS119	
D615	8-719-911-19	DIODE 1SS119	
D617	8-719-911-19	DIODE 1SS119	
D618	8-719-911-19	DIODE 1SS119	
D619	8-719-911-19	DIODE 1SS119	
D620	8-719-911-19	DIODE 1SS119	
D621	8-719-911-19	DIODE 1SS119	
D622	8-719-911-19	DIODE 1SS119	
D623	8-719-911-19	DIODE 1SS119	
D624	8-719-911-19	DIODE 1SS119	
D626	8-719-109-54	DIODE RD2. 2ES-B1	
D627	8-719-911-19	DIODE 1SS119	
D632	8-719-911-19	DIODE 1SS119	
D633	8-719-911-19	DIODE 1SS119	
D634	8-719-911-19	DIODE 1SS119	
D635	8-719-911-19	DIODE 1SS119	
D636	8-719-911-19	DIODE 1SS119	
D637	8-719-911-19	DIODE 1SS119	
D638	8-719-109-60	DIODE RD2. 7ES-B2	
D639	8-719-911-19	DIODE 1SS119	
D640	8-719-911-19	DIODE 1SS119	
D641	8-719-911-19	DIODE 1SS119	
D642	8-719-911-19	DIODE 1SS119	

Ref. No.	Part No.	Description	Remark
D643	8-719-911-19	DIODE 1SS119	
D644	8-719-911-19	DIODE 1SS119	
D645	8-719-911-19	DIODE 1SS119	
D670	8-719-911-19	DIODE 1SS119	
D671	8-719-911-19	DIODE 1SS119	
D672	8-719-911-19	DIODE 1SS119	
D673	8-719-911-19	DIODE 1SS119	
D696	8-719-911-19	DIODE 1SS119	
D697	8-719-911-19	DIODE 1SS119	
D698	8-719-911-19	DIODE 1SS119	
D699	8-719-911-19	DIODE 1SS119	
< IC >			
IC301	8-759-143-54	IC uPC1330HA	
IC302	8-759-805-30	IC CXA1115BP	
IC303	8-752-032-15	IC CXA1102P	
IC304	8-752-036-58	IC CXA1298AP	
IC601	8-759-239-76	IC TC9315F	
IC602	8-759-933-22	IC BA3707	
IC603	8-759-240-11	IC TC4011BP	
< COIL >			
L101	1-410-776-11	INDUCTOR 12mH	
L102	1-410-776-11	INDUCTOR 12mH	
L103	1-410-776-11	INDUCTOR 12mH	
L201	1-410-776-11	INDUCTOR 12mH	
L202	1-410-776-11	INDUCTOR 12mH	
L203	1-410-776-11	INDUCTOR 12mH	
L301	1-408-426-00	INDUCTOR 270uH	
L601	1-424-090-11	COIL, LINE FILTER	
L602	1-424-090-11	COIL, LINE FILTER 60uH	
L603	1-424-090-11	COIL, LINE FILTER 60uH	
< TRANSISTOR >			
Q101	8-729-905-50	TRANSISTOR DTC343TS	
Q103	8-729-905-50	TRANSISTOR DTC343TS	
Q104	8-729-904-39	TRANSISTOR DTC114TS	
Q105	8-729-900-85	TRANSISTOR DTC144WS	
Q106	8-729-905-50	TRANSISTOR DTC343TS	
Q201	8-729-905-50	TRANSISTOR DTC343TS	
Q203	8-729-905-50	TRANSISTOR DTC343TS	
Q204	8-729-904-39	TRANSISTOR DTC114TS	
Q205	8-729-900-85	TRANSISTOR DTC144WS	
Q206	8-729-905-50	TRANSISTOR DTC343TS	
Q301	8-729-904-39	TRANSISTOR DTC114TS	
Q302	8-729-900-85	TRANSISTOR DTC144WS	
Q303	8-729-905-50	TRANSISTOR DTC343TS	
Q304	8-729-205-83	TRANSISTOR 2SC2458L-GR	
Q305	8-729-119-78	TRANSISTOR 2SC1740S-QR	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q306	8-729-119-78	TRANSISTOR 2SC1740S-QR		Q648	8-729-904-39	TRANSISTOR DTC114TS	
Q307	8-729-900-85	TRANSISTOR DTC144WS		Q649	8-729-904-39	TRANSISTOR DTC114TS	
Q308	8-729-801-84	TRANSISTOR 2SB1013-4		Q650	8-729-900-85	TRANSISTOR DTC144WS	
Q309	8-729-904-39	TRANSISTOR DTC114TS		Q656	8-729-904-36	TRANSISTOR DTC114YS	
Q310	8-729-905-50	TRANSISTOR DTC343TS		Q657	8-729-202-56	TRANSISTOR 2SA950-Y	
Q311	8-729-800-34	TRANSISTOR 2SC3070		Q658	8-729-202-56	TRANSISTOR 2SA950-Y	
Q601	8-729-115-30	TRANSISTOR 2SK105A-30		Q659	8-729-902-80	TRANSISTOR DTA114YS	
Q602	8-729-904-36	TRANSISTOR DTC114YS		Q660	8-729-902-80	TRANSISTOR DTA114YS	
Q603	8-729-100-13	TRANSISTOR 2SC2001-K2		Q661	8-729-900-85	TRANSISTOR DTC144WS	
Q604	8-729-378-84	TRANSISTOR 2SD788		Q662	8-729-900-85	TRANSISTOR DTC144WS	
Q605	8-729-900-85	TRANSISTOR DTC144WS		Q665	8-729-900-85	TRANSISTOR DTC144WS	
Q606	8-729-904-36	TRANSISTOR DTC114YS		Q666	8-729-904-39	TRANSISTOR DTC114TS	
Q607	8-729-904-39	TRANSISTOR DTC114YS		Q667	8-729-904-36	TRANSISTOR DTC114YS	
Q608	8-729-202-56	TRANSISTOR 2SA950-Y		Q668	8-729-904-36	TRANSISTOR DTC114YS	
Q609	8-729-202-56	TRANSISTOR 2SA950-Y		Q670	8-729-904-36	TRANSISTOR DTC114YS	
Q610	8-729-100-13	TRANSISTOR 2SC2001-K2		Q671	8-729-904-36	TRANSISTOR DTC114YS	
Q611	8-729-100-13	TRANSISTOR 2SC2001-K2				< RESISTOR >	
Q612	8-729-801-84	TRANSISTOR 2SB1013-4		R101	1-247-891-00	CARBON 330K 5% 1/4W	
Q613	8-729-904-36	TRANSISTOR DTC114YS		R102	1-249-417-11	CARBON 1K 5% 1/4W	
Q614	8-729-902-80	TRANSISTOR DTA114YS		R103	1-247-891-00	CARBON 330K 5% 1/4W	
Q615	8-729-902-80	TRANSISTOR DTA114YS		R104	1-249-417-11	CARBON 1K 5% 1/4W	
Q616	8-729-904-39	TRANSISTOR DTC114TS		R105	1-249-406-11	CARBON 120 5% 1/4W	
Q617	8-729-904-39	TRANSISTOR DTC114TS		R106	1-249-430-11	CARBON 12K 5% 1/4W	
Q618	8-729-902-80	TRANSISTOR DTA114YS		R107	1-249-432-11	CARBON 18K 5% 1/4W	
Q619	8-729-119-78	TRANSISTOR 2SC1740S-QR		R108	1-249-420-11	CARBON 1.8K 5% 1/4W	
Q620	8-729-904-39	TRANSISTOR DTC114TS		R109	1-249-416-11	CARBON 820 5% 1/4W	
Q621	8-729-900-85	TRANSISTOR DTC144WS		R110	1-249-429-11	CARBON 10K 5% 1/4W	
Q622	8-729-904-39	TRANSISTOR DTC114TS		R111	1-249-434-11	CARBON 27K 5% 1/4W	
Q623	8-729-904-36	TRANSISTOR DTC114YS		R112	1-249-429-11	CARBON 10K 5% 1/4W	
Q624	8-729-904-39	TRANSISTOR DTC114TS		R113	1-249-431-11	CARBON 15K 5% 1/4W	
Q625	8-729-904-36	TRANSISTOR DTC114YS		R114	1-249-431-11	CARBON 15K 5% 1/4W	
Q626	8-729-115-30	TRANSISTOR 2SK105A-30		R115	1-247-836-11	CARBON 1.6K 5% 1/4W	
Q627	8-729-904-36	TRANSISTOR DTC114YS		R116	1-249-430-11	CARBON 12K 5% 1/4W	
Q628	8-729-100-13	TRANSISTOR 2SC2001-K2		R117	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q629	8-729-378-84	TRANSISTOR 2SD788		R118	1-249-405-11	CARBON 100 5% 1/4W	
Q630	8-729-904-36	TRANSISTOR DTC114YS		R119	1-249-429-11	CARBON 10K 5% 1/4W	
Q631	8-729-904-36	TRANSISTOR DTC114YS		R120	1-249-439-11	CARBON 68K 5% 1/4W	
Q632	8-729-900-85	TRANSISTOR DTC144WS		R121	1-247-866-11	CARBON 30K 5% 1/4W	
Q633	8-729-902-80	TRANSISTOR DTA114YS		R201	1-247-891-00	CARBON 330K 5% 1/4W	
Q638	8-729-801-84	TRANSISTOR 2SB1013-4		R202	1-249-417-11	CARBON 1K 5% 1/4W	
Q639	8-729-904-36	TRANSISTOR DTC114YSP		R203	1-247-891-00	CARBON 330K 5% 1/4W	
Q640	8-729-119-78	TRANSISTOR 2SA1175-HFE		R204	1-249-417-11	CARBON 1K 5% 1/4W	
Q641	8-729-904-36	TRANSISTOR DTC114YS		R205	1-249-406-11	CARBON 120 5% 1/4W	
Q642	8-729-904-39	TRANSISTOR DTC114TS		R206	1-249-430-11	CARBON 12K 5% 1/4W	
Q643	8-729-904-39	TRANSISTOR DTC114TS		R207	1-249-432-11	CARBON 18K 5% 1/4W	
Q644	8-729-904-34	TRANSISTOR DTA114TS		R208	1-249-420-11	CARBON 1.8K 5% 1/4W	
Q645	8-729-904-34	TRANSISTOR DTA114TS		R209	1-249-416-11	CARBON 820 5% 1/4W	
Q646	8-729-904-36	TRANSISTOR DTC114YS					
Q647	8-729-904-39	TRANSISTOR DTC114TS					

TC

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R210	1-249-429-11	CARBON	10K 5% 1/4W	R338	1-249-401-11	CARBON	47 5% 1/4W
R211	1-249-434-11	CARBON	27K 5% 1/4W	R339	1-249-425-11	CARBON	4.7K 5% 1/4W
R212	1-249-429-11	CARBON	10K 5% 1/4W	R340	1-249-433-11	CARBON	22K 5% 1/4W
R213	1-249-431-11	CARBON	15K 5% 1/4W	R341	1-249-417-11	CARBON	1K 5% 1/4W
R214	1-249-431-11	CARBON	15K 5% 1/4W	R342	1-249-417-11	CARBON	1K 5% 1/4W
R215	1-247-836-11	CARBON	1.6K 5% 1/4W	R601	1-249-425-11	CARBON	4.7K 5% 1/4W
R216	1-249-430-11	CARBON	12K 5% 1/4W	R602	1-249-441-11	CARBON	100K 5% 1/4W
R217	1-249-426-11	CARBON	5.6K 5% 1/4W	R603	1-249-417-11	CARBON	1K 5% 1/4W
R218	1-249-405-11	CARBON	100 5% 1/4W	R604	1-249-412-11	CARBON	390 5% 1/4W
R219	1-249-429-11	CARBON	10K 5% 1/4W	R605	1-249-441-11	CARBON	100K 5% 1/4W
R220	1-249-439-11	CARBON	68K 5% 1/4W	R606	1-249-441-11	CARBON	100K 5% 1/4W
R221	1-247-866-11	CARBON	30K 5% 1/4W	R607	1-249-417-11	CARBON	1K 5% 1/4W
R301	1-249-429-11	CARBON	10K 5% 1/4W	R608	1-249-417-11	CARBON	1K 5% 1/4W
R302	1-249-405-11	CARBON	100 5% 1/4W	R609	1-249-417-11	CARBON	1K 5% 1/4W
R303	1-249-441-11	CARBON	100K 5% 1/4W	R610	1-249-417-11	CARBON	1K 5% 1/4W
R304	1-249-438-11	CARBON	56K 5% 1/4W	R611	1-249-438-11	CARBON	56K 5% 1/4W
R305	1-249-431-11	CARBON	15K 5% 1/4W	R612	1-249-417-11	CARBON	1K 5% 1/4W
R306	1-249-433-11	CARBON	22K 5% 1/4W	R613	1-249-438-11	CARBON	56K 5% 1/4W
R307	1-247-899-11	CARBON	680K 5% 1/4W	R614	1-249-412-11	CARBON	390 5% 1/4W
R308	1-249-405-11	CARBON	100 5% 1/4W	R615	1-249-429-11	CARBON	10K 5% 1/4W
R309	1-249-423-11	CARBON	3.3K 5% 1/4W	R616	1-249-429-11	CARBON	10K 5% 1/4W
R310	1-249-405-11	CARBON	100 5% 1/4W	R617	1-249-441-11	CARBON	100K 5% 1/4W
R311	1-247-870-11	CARBON	43K 5% 1/4W	R618	1-249-441-11	CARBON	100K 5% 1/4W
R312	1-249-437-11	CARBON	47K 5% 1/4W	R619	1-249-429-11	CARBON	10K 5% 1/4W
R313	1-249-433-11	CARBON	22K 5% 1/4W	R620	1-249-441-11	CARBON	100K 5% 1/4W
R314	1-249-429-11	CARBON	10K 5% 1/4W	R621	1-249-441-11	CARBON	100K 5% 1/4W
R315	1-249-408-11	CARBON	180 5% 1/4W	R622	1-249-429-11	CARBON	10K 5% 1/4W
R316	1-249-405-11	CARBON	100 5% 1/4W	R623	1-249-429-11	CARBON	10K 5% 1/4W
R317	1-247-864-11	CARBON	24K 5% 1/4W	R624	1-249-417-11	CARBON	1K 5% 1/4W
R318	1-249-408-11	CARBON	180 5% 1/4W	R625	1-249-441-11	CARBON	100K 5% 1/4W
R319	1-249-429-11	CARBON	10K 5% 1/4W	R626	1-249-412-11	CARBON	390 5% 1/4W
R320	1-249-435-11	CARBON	33K 5% 1/4W	R627	1-249-425-11	CARBON	4.7K 5% 1/4W
R321	1-249-429-11	CARBON	10K 5% 1/4W	R628	1-249-425-11	CARBON	4.7K 5% 1/4W
R322	1-249-439-11	CARBON	68K 5% 1/4W	R629	1-249-441-11	CARBON	100K 5% 1/4W
R323	1-249-439-11	CARBON	68K 5% 1/4W	R630	1-249-417-11	CARBON	1K 5% 1/4W
R324	1-249-421-11	CARBON	2.2K 5% 1/4W	R631	1-249-437-11	CARBON	47K 5% 1/4W
R325	1-249-421-11	CARBON	2.2K 5% 1/4W	R633	1-249-437-11	CARBON	47K 5% 1/4W
R326	1-249-437-11	CARBON	47K 5% 1/4W	R634	1-249-429-11	CARBON	10K 5% 1/4W
R327	1-249-429-11	CARBON	10K 5% 1/4W	R637	1-249-417-11	CARBON	1K 5% 1/4W
R328	1-249-429-11	CARBON	10K 5% 1/4W	R638	1-249-411-11	CARBON	330 5% 1/4W
R329	1-249-417-11	CARBON	1K 5% 1/4W	R639	1-247-883-00	CARBON	150K 5% 1/4W
R330	1-249-405-11	CARBON	100 5% 1/4W	R640	1-249-412-11	CARBON	390 5% 1/4W
R331	△ 1-212-950-00	FUSIBLE	4.7 5% 1/2W F	R641	1-249-425-11	CARBON	4.7K 5% 1/4W
R332	1-249-429-11	CARBON	10K 5% 1/4W	R642	1-249-429-11	CARBON	10K 5% 1/4W
R333	1-249-437-11	CARBON	47K 5% 1/4W	R643	1-249-417-11	CARBON	1K 5% 1/4W
R334	1-249-421-11	CARBON	2.2K 5% 1/4W	R644	1-249-416-11	CARBON	820 5% 1/4W
R335	1-249-389-11	CARBON	4.7 5% 1/4W	R645	1-249-412-11	CARBON	390 5% 1/4W
R336	1-249-395-11	CARBON	15 5% 1/4W	R646	1-249-437-11	CARBON	47K 5% 1/4W
R337	1-249-427-11	CARBON	6.8K 5% 1/4W	R647	1-247-893-11	CARBON	390K 5% 1/4W

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

TC TC SUB

Ref. No.	Part No.	Description	Remark
R648	1-249-429-11	CARBON 10K 5% 1/4W	
R649	1-249-441-11	CARBON 100K 5% 1/4W	
R650	1-249-439-11	CARBON 68K 5% 1/4W	
R651	1-249-429-11	CARBON 10K 5% 1/4W	
R652	1-249-429-11	CARBON 10K 5% 1/4W	
R653	1-249-417-11	CARBON 1K 5% 1/4W	
R656	1-249-421-11	CARBON 2.2K 5% 1/4W	
R657	1-249-441-11	CARBON 100K 5% 1/4W	
R658	1-249-417-11	CARBON 1K 5% 1/4W	
R659	1-249-429-11	CARBON 10K 5% 1/4W	
R660	1-249-425-11	CARBON 4.7K 5% 1/4W	
R673	1-249-425-11	CARBON 4.7K 5% 1/4W	
R674	1-249-429-11	CARBON 10K 5% 1/4W	
R675	1-249-417-11	CARBON 1K 5% 1/4W	
R676	1-249-441-11	CARBON 100K 5% 1/4W	
R677	1-215-453-00	METAL 22K 1% 1/6W	
R677	1-215-453-00	METAL 22K 1% 1/6W	
R678	1-249-417-11	CARBON 1K 5% 1/4W	
R682	1-249-437-11	CARBON 47K 5% 1/4W	
R683	1-249-425-11	CARBON 4.7K 5% 1/4W	
R684	1-249-425-11	CARBON 4.7K 5% 1/4W	
R6004	1-249-429-11	CARBON 10K 5% 1/4W	
R6005	1-249-429-11	CARBON 10K 5% 1/4W	

< VARIABLE RESISTOR >

RV101	1-241-040-21	RES. ADJ. CARBON 22K
RV102	1-241-040-21	RES. ADJ. CARBON 22K
RV103	1-241-042-21	RES. ADJ. CARBON 100K
RV104	1-241-038-21	RES. ADJ. CARBON 5K
RV201	1-241-040-21	RES. ADJ. CARBON 22K
RV202	1-241-040-21	RES. ADJ. CARBON 22K
RV203	1-241-042-21	RES. ADJ. CARBON 100K
RV204	1-241-038-21	RES. ADJ. CARBON 5K
RV601	1-241-038-21	RES. ADJ. CARBON 5K
RV602	1-241-037-21	RES. ADJ. CARBON 2.2K
RV603	1-241-038-21	RES. ADJ. CARBON 5K
RV604	1-241-037-21	RES. ADJ. CARBON 2.2K
RV605	1-228-994-00	RES. ADJ. METAL 10K
T301	1-433-325-11	TRANSFORMER, BIAS OSCILLATION
W601	* 1-569-935-11	SOCKET, CONNECTOR 19P

Ref. No.	Part No.	Description	Remark
	* A-3261-434-A	TC SUB BOARD, COMPLETE... (AEP, IT)	
	* A-3261-381-A	TC SUB BOARD, COMPLETE... (UK)	

		< CAPACITOR >	
C641	1-162-851-11	CERAMIC 0.1uF 16V	
C642	1-162-851-11	CERAMIC 0.1uF 16V	
C687	1-162-851-11	CERAMIC 0.1uF 10% 16V	
C688	1-162-851-11	CERAMIC 0.1uF 10% 16V	
C689	1-124-963-11	ELECT 33uF 20% 16V	
C691	1-126-233-11	ELECT 22uF 20% 50V	
C692	1-123-875-11	ELECT 10uF 20% 50V	
C693	1-126-233-11	ELECT 22uF 20% 50V	
C694	1-123-875-11	ELECT 10uF 20% 50V	
C695	1-124-902-00	ELECT 0.47uF 20% 50V	
C696	1-123-875-11	ELECT 10uF 20% 50V	
C697	1-124-791-11	ELECT 1.0uF 20% 100V	
C698	1-124-791-11	ELECT 1.0uF 20% 100V	
C699	1-124-902-00	ELECT 0.47uF 20% 50V	
		< CONNECTOR >	
CN612	* 1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
CN613	* 1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P	
CN619	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	

< DIODE >

D613	8-719-911-19	DIODE 1SS119
D616	8-719-911-19	DIODE 1SS119
D628	8-719-911-19	DIODE 1SS119
D629	8-719-911-19	DIODE 1SS119
D630	8-719-911-19	DIODE 1SS119
D631	8-719-911-19	DIODE 1SS119
D646	8-719-911-19	DIODE 1SS119
D647	8-719-911-19	DIODE 1SS119
D648	8-719-911-19	DIODE 1SS119
D674	8-719-911-19	DIODE 1SS119
D675	8-719-911-19	DIODE 1SS119

< IC >

IC604	8-759-505-48	IC S-80740AN-Z
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< TRANSISTOR >

Q634	8-729-202-56	TRANSISTOR 2SA950-Y
Q635	8-729-202-56	TRANSISTOR 2SA950-Y
Q636	8-729-100-13	TRANSISTOR 2SC2001-K2
Q637	8-729-100-13	TRANSISTOR 2SC2001-K2
Q651	8-729-904-36	TRANSISTOR DTC114YS

TC SUB VOLUME

Ref. No.	Part No.	Description	Remark
Q652	8-729-904-36	TRANSISTOR DTC114YS	
Q653	8-729-902-80	TRANSISTOR DTA114YS	
Q654	8-729-904-36	TRANSISTOR DTC114YS	
Q655	8-729-904-34	TRANSISTOR DTA114TS	
Q663	8-729-904-39	TRANSISTOR DTC114TS	
Q664	8-729-904-36	TRANSISTOR DTC114YS	
Q690	8-729-900-36	TRANSISTOR DTC124ES	
Q691	8-729-900-85	TRANSISTOR DTC144WS	
Q692	8-729-900-36	TRANSISTOR DTC124ES	
Q693	8-729-900-85	TRANSISTOR DTC144WS	
Q694	8-729-900-85	TRANSISTOR DTC144WS	
Q695	8-729-904-34	TRANSISTOR DTA114TS	
Q696	8-729-904-39	TRANSISTOR DTC114TS	
Q697	8-729-904-39	TRANSISTOR DTC114TS	
Q698	8-729-904-39	TRANSISTOR DTC114TS	
Q699	8-729-904-36	TRANSISTOR DTC114YS	

< RESISTOR >

R632	1-249-441-11	CARBON	100K 5% 1/4W
R635	1-249-417-11	CARBON	1K 5% 1/4W
R636	1-249-417-11	CARBON	1K 5% 1/4W
R654	1-249-425-11	CARBON	4.7K 5% 1/4W
R655	1-249-425-11	CARBON	4.7K 5% 1/4W
R679	1-249-441-11	CARBON	100K 5% 1/4W
R680	1-249-417-11	CARBON	1K 5% 1/4W
R681	1-249-417-11	CARBON	1K 5% 1/4W
R685	1-249-431-11	CARBON	15K 5% 1/4W
R686	1-249-437-11	CARBON	47K 5% 1/4W
R687	1-249-437-11	CARBON	47K 5% 1/4W
R688	1-249-417-11	CARBON	1K 5% 1/4W
R689	1-249-413-11	CARBON	470 5% 1/4W
R690	1-249-413-11	CARBON	470 5% 1/4W
R691	1-249-437-11	CARBON	47K 5% 1/4W
R692	1-249-437-11	CARBON	47K 5% 1/4W
R693	1-249-429-11	CARBON	10K 5% 1/4W
R694	1-249-437-11	CARBON	47K 5% 1/4W
R695	1-249-429-11	CARBON	10K 5% 1/4W
R696	1-249-438-11	CARBON	56K 5% 1/4W
R697	1-249-435-11	CARBON	33K 5% 1/4W
R698	1-249-441-11	CARBON	100K 5% 1/4W
R699	1-249-405-11	CARBON	100 5% 1/4W
R6001	1-249-425-11	CARBON	4.7K 5% 1/4W
R6002	1-249-425-11	CARBON	4.7K 5% 1/4W
R6003	1-249-425-11	CARBON	4.7K 5% 1/4W

Ref. No.	Part No.	Description	Remark
* A-3289-773-A		VOLUME BOARD, COMPLETE... (AEP, IT)	
* A-3261-372-A		VOLUME BOARD, COMPLETE... (UK)	

< CAPACITOR >

C101	1-124-902-00	ELECT	0.47uF 20% 50V
C102	1-161-494-00	CERAMIC	0.022uF 25V
C103	1-162-288-31	CERAMIC	330PF 10% 50V
C104	1-162-851-11	CERAMIC	0.1uF 16V
C105	1-161-377-00	CERAMIC	0.0047uF 20% 16V
C106	1-124-791-11	ELECT	1.0uF 20% 100V
C107	1-161-061-11	CERAMIC	0.068uF 10% 50V
C108	1-124-902-00	ELECT	0.47uF 20% 50V
C109	1-162-282-31	CERAMIC	100PF 10% 50V
C110	1-162-282-31	CERAMIC	100PF 10% 50V
C111	1-162-282-31	CERAMIC	100PF 10% 50V
C112	1-124-902-00	ELECT	0.47uF 20% 50V
C113	1-161-377-00	CERAMIC	0.0047uF 20% 16V
C114	1-161-060-00	CERAMIC	0.056uF 10% 25V
C115	1-124-902-00	ELECT	0.47uF 20% 50V
C201	1-124-902-00	ELECT	0.47uF 20% 50V
C202	1-161-494-00	CERAMIC	0.022uF 25V
C203	1-162-288-31	CERAMIC	330PF 10% 50V
C204	1-162-851-11	CERAMIC	0.1uF 16V
C205	1-161-377-00	CERAMIC	0.0047uF 20% 16V
C206	1-124-791-11	ELECT	1.0uF 20% 100V
C207	1-161-061-11	CERAMIC	0.068uF 10% 50V
C208	1-124-902-00	ELECT	0.47uF 20% 50V
C209	1-162-282-31	CERAMIC	100PF 10% 50V
C210	1-162-282-31	CERAMIC	100PF 10% 50V
C211	1-162-282-31	CERAMIC	100PF 10% 50V
C212	1-124-902-00	ELECT	0.47uF 20% 50V
C213	1-161-377-00	CERAMIC	0.0047uF 20% 16V
C214	1-161-060-00	CERAMIC	0.056uF 10% 25V
C215	1-124-902-00	ELECT	0.47uF 20% 50V
C401	1-124-471-00	ELECT	1000uF 20% 6.3V
C402	1-162-851-11	CERAMIC	0.1uF 16V
C403	1-162-851-11	CERAMIC	0.1uF 16V
C404	1-124-126-00	ELECT	47uF 20% 10V
C405	1-124-902-00	ELECT	0.47uF 20% 50V
C449	1-136-170-00	FILM	0.27uF 5% 50V

< CONNECTOR >

CN401	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN402	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN403	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
CN404	* 1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	
CN406	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	

VOLUME

Ref. No.	Part No.	Description	Remark
		< IC >	
IC401	8-759-962-08	IC BA6208	
IC402	8-759-972-97	IC BA3823LS	
		< JACK >	
J401	1-566-891-11	JACK (PHONES)	
		< COIL >	
L401	1-408-426-00	INDUCTOR 270uH	
L402	1-408-111-00	INDUCTOR 3.3uH	
L403	1-408-111-00	INDUCTOR 3.3uH	
L405	1-424-090-11	COIL, LINE FILTER 60mH	
		< TRANSISTOR >	
Q101	8-729-905-50	TRANSISTOR DTC343TS	
Q201	8-729-905-50	TRANSISTOR DTC343TS	
		< RESISTOR >	
R101	1-249-417-11	CARBON 1K 5% 1/4W	
R102	1-249-423-11	CARBON 3.3K 5% 1/4W	
R103	1-249-426-11	CARBON 5.6K 5% 1/4W	
R111	1-249-417-11	CARBON 1K 5% 1/4W	
R112	1-249-441-11	CARBON 100K 5% 1/4W	
R201	1-249-417-11	CARBON 1K 5% 1/4W	
R202	1-249-423-11	CARBON 3.3K 5% 1/4W	
R203	1-249-426-11	CARBON 5.6K 5% 1/4W	
R211	1-249-417-11	CARBON 1K 5% 1/4W	
R212	1-249-441-11	CARBON 100K 5% 1/4W	
R401	1-249-429-11	CARBON 10K 5% 1/4W	
R402	1-249-429-11	CARBON 10K 5% 1/4W	
R403	1-249-405-11	CARBON 100 5% 1/4W	
R404	1-249-437-11	CARBON 47K 5% 1/4W	
R431	1-249-393-11	CARBON 10 5% 1/4W	
		< VARIABLE RESISTOR >	
RV401	1-241-033-21	RES. VAR. CARBON 50K/50K (EQ 10kHz)	
RV402	1-241-033-21	RES. VAR. CARBON 50K/50K (EQ 1kHz)	
RV403	1-241-033-21	RES. VAR. CARBON 50K/50K (EQ 100Hz)	
RV404	1-238-177-11	RES. VAR. CARBON 50K/50K (VOLUME)	
		< SWITCH >	
S401	1-572-175-11	SWITCH, PUSH (1 KEY) (SPACE SOUND)	

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

	1-556-650-00	CORD, CONNECTION (SPEAKER)	
	△ 8-848-137-11	DEVICE, OPTICAL KSS-210B	
ANT1	1-501-480-11	ANTENNA, TELESCOPIC	
C491	1-119-511-11	CAP, ELECT (NONPOLAR) 15uF	
C492	1-119-511-11	CAP, ELECT (NONPOLAR) 15uF	
F901	△ 1-532-325-00	FUSE, TIME-LAG 6.3A 250V	
F902	△ 1-532-078-00	FUSE, TIME-LAG 1A 250V	
HP901	A-3113-036-A	PLATE ASSY HD... (DECK A)	
HE901	A-3113-034-A	HEAD ASSY ROTARY... (DECK B)	
HRP901			
M703	1-541-352-11	MOTOR (SPINDLE)	
M704	X-2641-357-1	MOTOR ASSY (SLED)	
M901A	A-3133-405-A	MOTOR ASSY CAPSTAN... (DECK A)	
M901B	A-3133-405-A	MOTOR ASSY CAPSTAN... (DECK B)	
M902A	A-3208-406-A	MOTOR ASSY REEL... (DECK A)	
M902B	A-3208-406-A	MOTOR ASSY REEL... (DECK B)	
PM901A	1-454-516-11	SOLENOID, PLUNGER... (DECK A)	
PM901B	1-454-516-11	SOLENOID, PLUNGER... (DECK B)	
S801	1-571-283-11	SWITCH, LEAF (OPEN/CLOSE)	
SP901	1-503-488-11	SPEAKER	
SP902	1-544-342-11	SPEAKER	
T901	△ 1-450-249-11	TRANSFORMER, POWER... (AEP, IT)	
T901	△ 1-450-250-11	TRANSFORMER, POWER... (UK)	

Note: 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
ACCESSORY & PACKING MATERIAL			
	1-465-502-11	COMMANDER, REMOTE (STANDARD TYPE)	
△	1-558-032-11	CORD, POWER... (UK)	
△	1-575-131-11	CORD, POWER... (AEP, IT)	
	3-751-966-11	MANUAL, INSTRUCTION... (AEP, UK) (ENGLISH, FRENCH, GERMAN, SPANISH)	
	3-751-966-41	MANUAL, INSTRUCTION... (AEP, IT) (DUTCH, SWEDISH, ITALIAN, PORTUGUESE)	
*	4-937-665-01	CUSHION (UPPER)	
*	4-937-666-01	CUSHION (LOWER)	
*	4-937-686-01	INDIVIDUAL CARTON	

SCREW

#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3
#2	7-685-647-79	SCREW, TAPPING +BV 3X10
#3	7-621-255-10	SCREW +BVTT 2X3 (S)
#4	7-621-772-00	SCREW +B 2X3
#5	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT
#6	7-685-648-79	SCREW, TAPPING +BV 3X12
#7	7-685-646-79	SCREW, TAPPING +BV 3X8
#8	7-682-549-04	SCREW +B 3X10
#9	7-621-255-15	SCREW +P 2X3
#10	7-621-770-67	SCREW +P 2.6X6
#11	7-621-772-20	SCREW +B 2X5
#12	7-627-553-47	PRECISION SCREW +P 2X4 TYPE 3
#13	7-621-255-25	SCREW +P 2X4
#14	7-621-255-45	SCREW +PTT 2X6 (S)

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