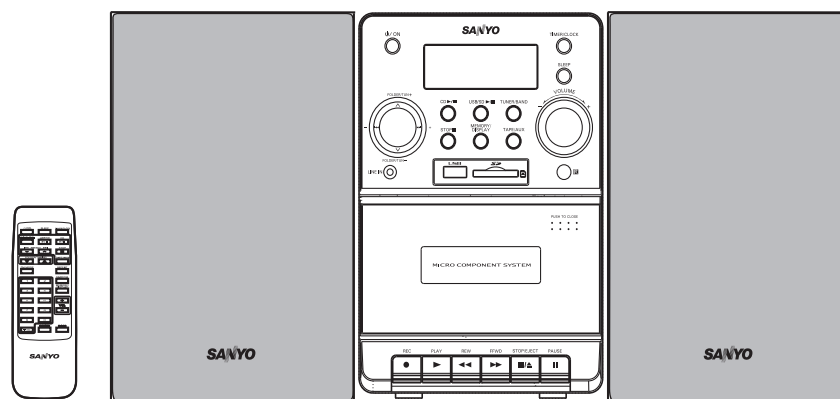


## Service Manual

## Micro Component System

**DC-UB1470 (XE)**



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**PRODUCT CODE No.**  
**129 738 00**

|                                             |    |                                   |    |
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## RoHS

This product does not contain any hazardous substances prohibited by the RoHS Directive.  
(RoHS compliant product is "R" or "Z" appears at the last digit of serial number or a "RSF" label near the rating plate.)

## WARNING

You are requested to use RoHS compliant parts for maintenance or repair. You are requested to use lead-free solder.  
(This product has been manufactured using lead-free solder. Be sure to follow the warning of the following when carrying out repair work.)

## WARNING

### Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.  
Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30 - 40°C (86 - 104°F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.  
The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work.

### Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450°C (842°F). It should also have as good temperature recovery characteristics as possible.

Set the temperature to 350°C (662°F) or less for chip components, to 380°C (716°F) for lead wires and similar, and to

420°C (788°F) when installing and removing shield plates.

The tip of the soldering iron should have a C-cut shape or a driver shape so that it can contact the circuit board as flat or in a line as much as possible.

### Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

| Metal content               | Tin(Sn) | Silver(Ag) | Copper(Cu) |
|-----------------------------|---------|------------|------------|
| Composition ratio by weight | 96.5%   | 3.0%       | 0.5%       |

Lead-free solder is available for purchase as a service tool.

Use the following part number when ordering:

**Part name:** Lead-free solder with resin (0.5 mm dia., 500 g)

**Part number:** VJ8-0270

### Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

## LASER BEAM SAFETY PRECAUTION

- Pick-up that emits a laser beam is used in this CD player section.

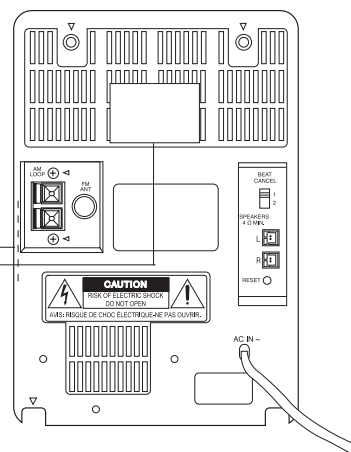
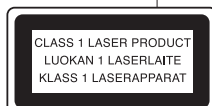
### CAUTION :

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

LASER OUTPUT ..... 0.6 mW Max. (CW)

WAVE LENGTH ..... 790 nm

CAUTION – INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.  
ADVARSEL – USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGA UDSÆTTELSE FOR STRÅLING.  
VARNING – OSYNLIG LASER STRÅLNING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.  
VORSICHT – UNSICHTBARE LASERSTRALUNG TRIT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.  
VARO – AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.



## TUNER ADJUSTMENTS

Use a plastic screw driver for adjustments.

Adjust the intermediate frequency of AM to the frequency of ceramic filter.

### Set of unit

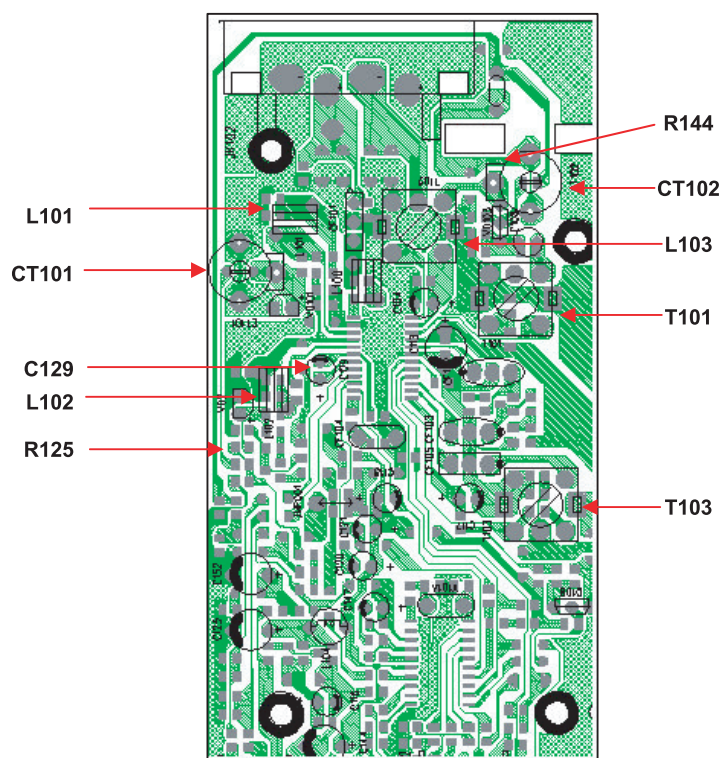
Supply voltage : AC 230V

speaker impedance : 8 ohms

standard output : 50 mW

Function select: : TUNER

### a. Parts Location



### a.AM Adjustment

Band :AM

| Step | Adjusting Circuit  | Connections                                                       |                                    | SG Frequency | Position of Tuning dial | Adjustment | VTVM Oscilloscope |
|------|--------------------|-------------------------------------------------------------------|------------------------------------|--------------|-------------------------|------------|-------------------|
|      |                    | Input                                                             | Output                             |              |                         |            |                   |
| 1    | IF                 | Closed the output terminal by sweep generator, it place to AM ANT | Connect VTVM to C129(-)            | 450 KHz      | 522 KHz                 | T103       |                   |
| 2    | Tuning cover range | Connect AM SG to test loop                                        | Connect VTVM to R144               | 522 KHz      | 520 KHz                 | T101       | VT: 1.4+/-0.1V    |
|      |                    |                                                                   |                                    | 1611 KHz     | 1610 KHz                |            | VT: 7.2+/-0.5V    |
| 3    | Tracking           | Connect AM SG to test loop                                        | Connect VTVM to speaker terminals. | 603 KHz      | 610 KHz                 | AM COIL    | Max.              |
|      |                    |                                                                   |                                    | 1404 KHz     | 1400KHz                 | CT102      |                   |

### b.FM Adjustment

Band :FM

FM Dummy antenna: 75 ohms unbalance

| Step | Adjusting Circuit  | Connection                         |                                    | SG Frequency | Position of Tuning dial | Adjustment | VTVM Oscilloscope |
|------|--------------------|------------------------------------|------------------------------------|--------------|-------------------------|------------|-------------------|
|      |                    | Input                              | Output                             |              |                         |            |                   |
| 1    | IF                 | Connect sweep generator to C139    | Connect VTVM to C129(-)            | 10.7 MHz     | 90.00 MHz               |            |                   |
| 2    | Tuning cover range | Connect FM SG to D102(+) & D101(-) | Connect VTVM to R125               | 87.50 MHz    | 87.50 MHz               | L102       | VT: 1.8+/-0.1V    |
|      |                    |                                    |                                    | 108.00 MHz   | 108.00 MHz              |            | VT: 6.5+/-0.5V    |
| 3    | Tracking           | Connect FM SG to D102(+) & D101(-) | Connect VTVM to speaker terminals. | 90.00 MHz    | 90.00 MHz               | L101       | Max.              |
|      |                    |                                    |                                    | 106.00 MHz   | 106.00 MHz              | CT101      |                   |

## TAPE DECK ADJUSTMENTS

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### 1. HEAD REPLACEMENT

After replacement, demagnetize the heads by using a degausser.

Be sure to clean the heads before attempting to make any adjustments.

All wiring should be returned to the original position after work is completed.

### 2. HEAD AZIMUTH ADJUSTMENT

- (1) Load the test tape(STT-113CN,etc., 8KHz) for azimuth adjustment.
- (2) Press the PLAY button.
- (3) Use a cross-tip screwdriver to turn the screw for azimuth adjustment so that left and right output are maximized
- (4) Press the STOP button.
- (5) After completion of the adjustment, use thread lock (TB-1401B) to secure the azimuth-adjustment screw.

### 3. MOTOR REPLACEMENT

### 4. AC BIAS FREQUENCY ADJUSTMENTS

- (1) connect counter to T801(BS);
- (2) R/P switch in recording state;
- (3) Adjusting T801 use a plastic screw, AC bias frequency: 82KHz.

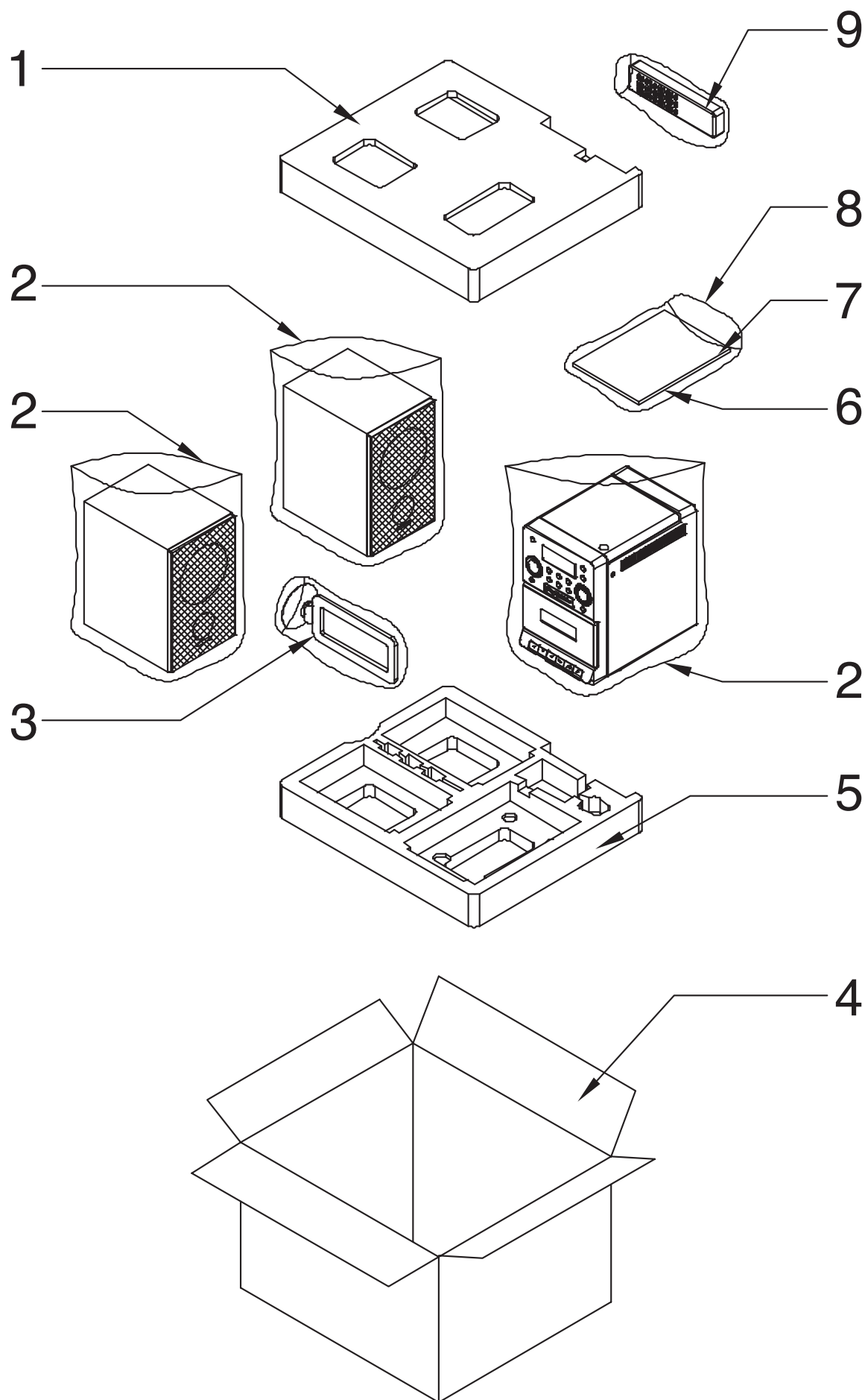
### 5. MOTOR SPEED ADJUSTMENT

- (1) Insert the test tape(MTT-111N,etc., 3,000 Hz)
- (2) Press the PLAY button.
- (3) Use a flat-tip screwdriver to turn the SVR(located inside the rear of the motor) to adjust SVR so that the frequency counter become 3,000 Hz .

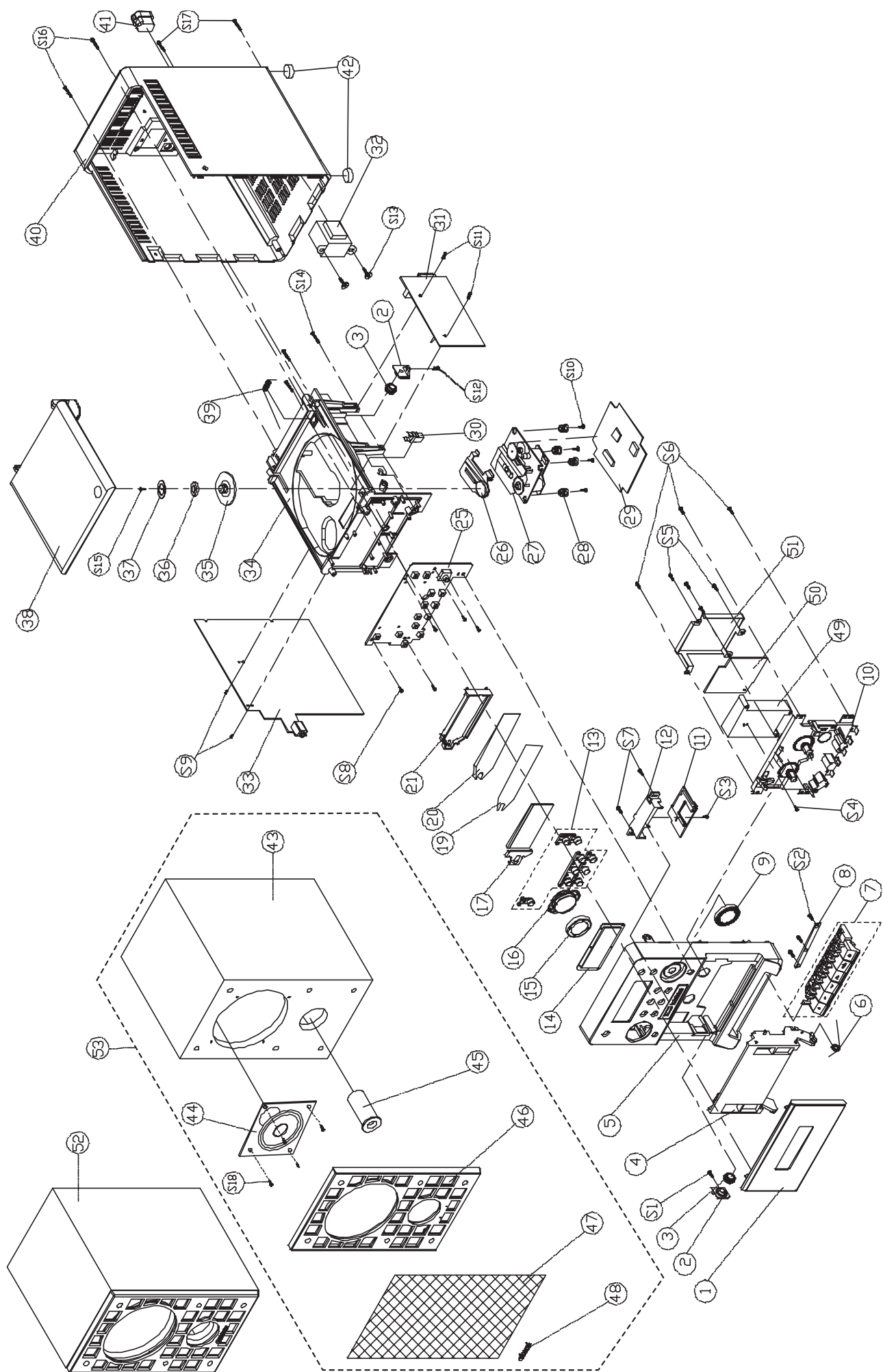
### 6. CHECKING THE MECHANISM TORQUE AND TENSION

| Measurement             | Take-up torque                     | Back tension  | Tape tension                    |
|-------------------------|------------------------------------|---------------|---------------------------------|
| Cassette of measurement | PLAY:TW-2111A<br>F.FWD/REW:TW-2231 | PLAY:TW-2111A | Drive-power cassette<br>TW-2412 |
| PLAY                    | 30-70 gf.cm                        | 1.5 - 5 gf.cm | 70 gf or more                   |
| F.FWD                   | 55 gf or more                      | -----         | -----                           |
| REW                     | 55 gf or more                      | -----         | -----                           |

## EXPLODED VIEW (PACKING & ACCESSORIES)



EXPLODED VIEW (CABINET & CHASSIS)





## PARTS LIST

### PRODUCT SAFETY NOTICE

EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL  $\Delta$  IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. WHEN REPLACING A COMPONENT IDENTIFIED BY  $\Delta$ , USE ONLY THE REPLACEMENT PARTS DESIGNATED, OR PARTS WITH THE SAME RATINGS OF RESISTANCE, WATTAGE OR VOLTAGE THAT ARE DESIGNATED IN THE PARTS LIST IN THIS MANUAL. LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS MUST BE MADE TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE PRODUCT TO THE CUSTOMER.

**CAUTION :** Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.  
Regular type resistors are less than 1/4 W carbon type and 0 ohm chip resistors.  
Regular type capacitors are less than 50 V and less than 1000  $\mu$ F type of Ceramic type and Electrical type.

### PACKING & ACCESSORIES

| REF.NO. | PART NO.              | DESCRIPTION                        |
|---------|-----------------------|------------------------------------|
| 1       | 645 094 2174          | POLYFORM TOP COVER                 |
| 2       | 645 069 7357          | POLY BAG,SPEAKER,UNIT              |
| 3       | 645 061 6297          | ANTENNA LOOP                       |
| 4       | 645 094 2549          | GIFT BOX                           |
| 5       | 645 094 2181          | POLYFORM BOTTOM COVER              |
| 6       | 645 094 2518          | INSTRUCTION MANUAL                 |
| 7       | 645 094 2143          | QUICK GUIDE                        |
| 8       | 645 066 6063          | POLY BAG,IB                        |
| 9       | 645 094 2563          | REMOTE CONTROL,<br>RC31-X000XX-020 |
|         | $\Delta$ 645 080 4939 | POWER CORD,VDE                     |

### CABINET & CHASSIS

| REF.NO. | PART NO.     | DESCRIPTION               |
|---------|--------------|---------------------------|
| 1       | 645 094 2440 | CASS DOOR COVER           |
| 2       | 645 033 0414 | CASS LID GEAR HOLDER      |
| 3       | 645 033 0407 | CASS LID GEAR             |
| 4       | 645 094 2075 | CASS DOOR BRACKET         |
| 5       | 645 094 2433 | CABINET FRONT             |
| 6       | 645 042 1181 | CASS DOOR SPRING          |
| 7       | 645 094 2457 | KNOB CASS,SET             |
| 8       | 645 080 5387 | CASS KNOB PLATE           |
| 9       | 645 094 2051 | KNOB VOLUME               |
| 10      | 645 080 4977 | CASS DECK MECHANISM       |
| 12      | 645 094 2068 | USB BRACKET               |
| 13      | 645 094 2495 | FUCTION KNOB,SET          |
| 14      | 645 094 2129 | DISPLAY LENS              |
| 15      | 645 094 2471 | CD KNOB COVER             |
| 16      | 645 094 2488 | CD KNOB BRACKET           |
| 26      | 645 042 0375 | CD MECHA COVER            |
| 27      | 645 080 5356 | CD DECK MECHANISM         |
| 28      | 645 033 3446 | RUBBER SILICON,CD DECK    |
| 30      | 645 043 0145 | CD DOOR LOCK              |
| 34      | 645 094 2426 | CD TRAY                   |
| 35      | 645 033 3989 | CD CHUCK A                |
| 36      | 645 033 3972 | CD MAGNET RING            |
| 37      | 645 094 2044 | CD CHUCK M                |
| 38      | 645 094 2464 | CD DOOR                   |
| 39      | 645 080 5400 | CD DOOR SPRING            |
| 40      | 645 094 2419 | CABINET BACK              |
| 41      | 645 093 5299 | LINE CORD HOLDER          |
| 42      | 645 094 2020 | RUBBER FOOT,FOR UNIT      |
| 43      | 645 094 2525 | WOOD SPEAKER BOX          |
| 45      | 645 062 1291 | SPK BOX PLASTIC PIPE      |
| 46      | 645 094 2112 | NET BRACKET               |
| 47      | 645 094 2402 | SPEAKER GRILLE CLOTH      |
| 48      | 645 076 1515 | SANYO LOGO                |
| 49      | 645 094 2136 | RECORDING BD BRACKET      |
| 51      | 645 091 6618 | SHIELD PLATE,FOR TAPE PCB |
| 52      | 645 094 2570 | ASSY SPEAKER BOX L,LEFT   |
| 53      | 645 094 2587 | ASSY SPEAKER BOX R,RIGHT  |

### FIXING PARTS

| REF.NO. | PART NO.     | DESCRIPTION                            |
|---------|--------------|----------------------------------------|
| S1      | 645 023 6624 | SCREW ST 3X10,<br>CASS DOOR GEAR       |
| S2      | 645 023 6594 | SCREW ST 3X8,CASS KNOB PLATE           |
| S3      | 645 023 6594 | SCREW ST 3X8,USB PCB                   |
| S4      | 645 079 0577 | SCREW 2.6X6,LEAF SWITCH                |
| S5      | 645 023 6594 | SCREW ST 3X8,SHIELD PLATE              |
| S6      | 645 023 6617 | SCREW ST 3X10,CASS DECK                |
| S7      | 645 023 6617 | SCREW ST 3X10,USB BRACKET              |
| S8      | 645 023 6594 | SCREW ST 3X8,CONTROL BD                |
| S9      | 645 023 6594 | SCREW ST 3X8,MAIN BD                   |
| S10     | 645 069 6770 | SCREW 2.6X8,CD DECK                    |
| S11     | 645 023 6594 | SCREW ST 3X8,TUNER BD                  |
| S12     | 645 023 6624 | SCREW ST 3X10,CD DOOR GEAR             |
| S13     | 645 027 1182 | SCR 3X20,POWER TRANSFORMER             |
| S14     | 645 042 0306 | SCR 3 X 12,BACK CAB TO CD TRAY         |
| S15     | 645 051 6641 | SCR 2 X 6,<br>CD CHUCK M TO CD CHUCK A |
| S16     | 645 042 0306 | SCR 3 X 12,<br>CD TRAY TO FRONT CAB    |
| S17     | 645 027 3841 | SCR 3X2.5,<br>BACK CAB TO FRONT CAB    |
| S18     | 645 023 6624 | SCREW ST 3X10,SPEAKER                  |

### ELECTRICAL PARTS

| REF.NO. | PART NO.              | DESCRIPTION                                |
|---------|-----------------------|--------------------------------------------|
| 32      | $\Delta$ 645 080 4946 | POWER TRANSFORMER,V1423FS                  |
| 44      | 645 094 1559          | SPEAKER 3.5                                |
|         | 645 076 0778          | CC 100P 50V,CASS DECK                      |
|         | 645 027 1328          | SOLDERING SLUG,ANT                         |
|         | 645 094 1658          | FERRITE BEAD,<br>MAIN CN204 TO CASS DECK   |
|         | 645 080 5011          | FERRITE BEAD,<br>USB CN601 TO CD CN903 WI  |
|         | 645 080 5011          | FERRITE BEAD,<br>MAIN CN404 TO LEAF SW WI  |
|         | 645 080 5011          | FERRITE BEAD,<br>USB CN602 TO CD CN703     |
|         | 645 093 5015          | FERRITE BEAD,<br>MAIN CN203 TO REC. CN202  |
|         | 645 055 7095          | FERRITE BEAD,<br>MAIN CN401 TO CD CN702 W  |
|         | 645 094 1771          | FFC CABLE 13P,<br>MAIN CN403 TO CONTROL CN |
|         | 645 062 1079          | FFC CABLE 16P,<br>CD BD CN904 TO CD DECK   |
|         | 645 094 1788          | FFC CABLE 22P,<br>MAIN CN701 TO CD CN710   |
|         | 645 055 7187          | 2P HSG,<br>MAIN CN404 TO CD DOOR S         |
|         | 645 094 1764          | HSG 4P,<br>REC. CN201 TO CASS DECK         |
|         | 645 054 0707          | HSG 3P,<br>MAIN CN204 TO CASS DECK         |
|         | 645 091 6359          | 1P HSG,CASSDECK                            |
|         | 645 091 6366          | 1P HSG,C144-TO CASS DECK                   |
|         | 645 086 4360          | 10P HSG,<br>MAIN CN203 TO REC. CN202       |

## PARTS LIST

### MAIN P.W.BOARD ASSY

| REF.NO. | PART NO.     | DESCRIPTION                         |
|---------|--------------|-------------------------------------|
| 33      | 645 094 2334 | ASSY PWB MAIN (Only initial)        |
| C0460   | 645 080 4915 | ELECT 1000U 16V                     |
| C0507   | 645 073 7992 | POLYESTER 0.001U 100V               |
| C0508   | 645 079 6715 | POLYESTER 0.18U 100V                |
| C0510   | 645 079 6715 | POLYESTER 0.18U 100V                |
| C0513   | 645 079 6715 | POLYESTER 0.18U 100V                |
| C0516   | 645 079 6715 | POLYESTER 0.18U 100V                |
| C0519   | 645 073 7992 | POLYESTER 0.001U 100V               |
| C0580   | 645 080 4915 | ELECT 1000U 16V                     |
| C1106   | 645 080 4922 | ELECT 6800U 25V                     |
| CN203   | 645 094 1757 | 10P HEADER                          |
| CN204   | 645 033 3682 | HEADER 3PINS                        |
| CN403   | 645 034 6781 | FFC HEADER 13PINS                   |
| CN404   | 645 034 6798 | HEADER 2PINS                        |
| CN701   | 645 094 1726 | 22P FFC HEADER                      |
| D0401   | 645 055 6821 | DIODE 1N4148                        |
| D0421   | 645 055 6821 | DIODE 1N4148                        |
| D0422   | 645 055 6821 | DIODE 1N4148                        |
| D0423   | 645 023 6112 | RECTIFIER 1N-4001                   |
| D0461   | 645 023 6112 | RECTIFIER 1N-4001                   |
| D0462   | 645 055 6821 | DIODE 1N4148                        |
| D0706   | 645 055 6821 | DIODE 1N4148                        |
| D0778   | 645 055 6821 | DIODE 1N4148                        |
| D1101   | 645 027 0932 | RECTIFIER 1N-5401                   |
| D1102   | 645 027 0932 | RECTIFIER 1N-5401                   |
| D1103   | 645 027 0932 | RECTIFIER 1N-5401                   |
| D1104   | 645 027 0932 | RECTIFIER 1N-5401                   |
| F1101   | 645 080 5035 | GLASS FUSE,FS1101                   |
| FS401   | 645 094 1702 | FUSE                                |
| IC301   | 645 080 4984 | IC LA4629                           |
| IC401   | 645 094 1610 | IC CW7809CS,ZENER                   |
| IC402   | 645 091 6311 | IC KA7805                           |
| IC501   | 645 094 1962 | IC SC7314                           |
| IC701   | 645 094 1955 | IC CD74HC4094                       |
| IC707   | 645 094 1924 | IC ATMAG8                           |
| IC710   | 645 094 1931 | IC NK1117/3.3V                      |
| JK301   | 645 062 1147 | ST PHONEJACK                        |
| JK302   | 645 062 1178 | SPEAKER TERMINAL                    |
| JK601   | 645 033 3743 | EARPHONE JACK                       |
| L0304   | 645 094 1672 | CHOKO COIL 4.7UH                    |
| L0306   | 645 094 1689 | INDUCTOR 47UH                       |
| L0307   | 645 094 1689 | INDUCTOR 47UH                       |
| L0308   | 645 094 1672 | CHOKO COIL 4.7UH                    |
| L0309   | 645 094 1689 | INDUCTOR 47UH                       |
| L0403   | 645 033 3637 | CHOKO COIL 10UH                     |
| L0404   | 645 033 3637 | CHOKO COIL 10UH                     |
| L0602   | 645 094 1689 | INDUCTOR 47UH                       |
| L0611   | 645 094 1689 | INDUCTOR 47UH                       |
| L0701   | 645 033 3637 | CHOKO COIL 10UH                     |
| L0709   | 645 033 3637 | CHOKO COIL 10UH                     |
| Q0301   | 645 023 6129 | TR 9014C                            |
| Q0302   | 645 023 6129 | TR 9014C                            |
| Q0401   | 645 055 6869 | TR 8550B C                          |
| Q0402   | 645 023 6129 | TR 9014C                            |
| Q0403   | 645 023 6129 | TR 9014C                            |
| Q0404   | 645 094 1580 | TRANSISTOR B772Y                    |
| Q0408   | 645 023 6129 | TR 9014C                            |
| Q0411   | 645 094 1597 | TRANSISTOR B1185E.F                 |
| Q0441   | 645 023 6129 | TR 9014C                            |
| Q0444   | 645 055 6869 | TR 8550B C                          |
| Q0460   | 645 023 6129 | TR 9014C                            |
| SW301   | 645 093 4971 | SWITCH SLIDE                        |
| X0701   | 645 055 7125 | CRYSTAL                             |
| ZD404   | 645 062 0720 | ZENER 3.6V                          |
| ZD440   | 645 033 3859 | ZENER 8.2V                          |
|         | 645 070 4482 | CC 0.022U 50V,<br>CN701 GND TO D432 |
|         | 645 035 0511 | FUSE HOLDER MW1010K,FS1101          |
|         | 645 080 5363 | HEAT SINK,FOR IC301                 |
|         | 645 094 2013 | SHIELD PLATE,FOR MAIN PCB           |
|         | 645 080 5141 | 4P HSG,<br>MAIN CN603 TO TUNER CN10 |

| REF.NO. | PART NO.     | DESCRIPTION                         |
|---------|--------------|-------------------------------------|
|         | 645 073 8296 | 5P HSG,<br>MAIN CN402 TO TUNER CN10 |
|         | 645 094 2389 | HSG 7P,MAIN CN401 TO CD CN702       |

### CONTROL P.W.BOARD ASSY

| REF.NO. | PART NO.     | DESCRIPTION                     |
|---------|--------------|---------------------------------|
| 25      | 645 094 2341 | ASSY PWB CONTROL (Only initial) |
| 17      | 645 094 2082 | LED COVER                       |
| 19      | 645 094 2037 | PAPER BACK LIGHT                |
| 20      | 645 080 5462 | LENS BACK LIGHT                 |
| 21      | 645 094 2099 | DISPLAY BEACKET                 |
| IC705   | 645 094 1948 | IC HT1622BD                     |
| LD701   | 645 094 1627 | LCD DISPLAY,LCD701              |
| LE701   | 645 094 1696 | LED ROUND,LED701                |
| RM701   | 645 091 6304 | DIODE SM338AL,REM701            |
| SW701   | 645 069 6640 | SWITCH TACT,CLOCKE/TIMER        |
| SW702   | 645 069 6640 | SWITCH TACT,SLEEP               |
| SW703   | 645 069 6640 | SWITCH TACT,STOP                |
| SW705   | 645 069 6640 | SWITCH TACT,PERSET-             |
| SW706   | 645 069 6640 | SWITCH TACT,PERSET+             |
| SW707   | 645 069 6640 | SWITCH TACT,BAND                |
| SW708   | 645 069 6640 | SWITCH TACT,TUNING+             |
| SW709   | 645 069 6640 | SWITCH TACT,SOUND               |
| SW710   | 645 069 6640 | SWITCH TACT,CD/MP3              |
| SW711   | 645 069 6640 | SWITCH TACT,TUNING-             |
| SW712   | 645 069 6640 | SWITCH TACT,MEMORY              |
| SW713   | 645 069 6640 | SWITCH TACT,STAND BY            |
| SW718   | 645 069 6640 | SWITCH TACT,TAPE                |
| VR701   | 645 094 1665 | SHAFT VOLUME                    |
|         | 645 094 2501 | REMOTE CONTROL RECEIVER L       |
|         | 645 094 2105 | REMOTE CONTROL RECEIVER B       |

### CD P.W.BOARD ASSY

| REF.NO. | PART NO.     | DESCRIPTION                |
|---------|--------------|----------------------------|
| 29      | 645 094 2310 | ASSY PWB CD (Only initial) |
| CF901   | 645 061 9915 | RESONATOR 16.9344MHZ       |
| CN702   | 645 094 1733 | 7P HEADER                  |
| CN703   | 645 042 9552 | HEADER 4PINS               |
| CN710   | 645 094 1719 | 22P FFC HEADER             |
| CN903   | 645 094 1740 | 8P HEADER                  |
| CN904   | 645 069 6688 | HEADER FFC 16P             |
| D0900   | 645 073 8562 | DIODE 1N4148               |
| D0901   | 645 073 8562 | DIODE 1N4148               |
| IC701   | 645 091 6557 | IC TS2501                  |
| IC711   | 645 091 6601 | IC SST39VF800A             |
| IC712   | 645 076 1447 | IC M12L16161A              |
| IC713   | 645 091 6564 | IC CE2711                  |
| IC714   | 645 091 6526 | IC AMS1117                 |
| IC715   | 645 091 6519 | IC V809R                   |
| IC716   | 645 094 1931 | IC NK1117/3.3V             |
| IC901   | 645 091 6595 | IC SC9641                  |
| IC902   | 645 091 6571 | IC SA9259                  |
| IC903   | 645 091 6588 | IC SA9618                  |
| L0706   | 645 033 3637 | CHOKO COIL 10UH            |
| L0910   | 645 033 3637 | CHOKO COIL 10UH            |
| Q0722   | 645 080 5301 | TRANSISTOR 8050C.D         |
| Q0723   | 645 055 6883 | TR KSA928A                 |
| Q0911   | 645 033 3514 | TR 2SB764D                 |
| Q0912   | 645 091 6502 | TRANSISTOR 8550B.C         |
| Q0913   | 645 080 5301 | TRANSISTOR 8050C.D         |
| SW903   | 645 069 6657 | LEAF SWITCH                |
| X0700   | 645 092 4729 | CRYSTAL 12MHZ              |
|         | 645 070 4444 | CC 0.001U 50V,C763-        |



## PARTS LIST

### TUNER P.W.BOARD ASSY

| REF.NO. | PART NO.     | DESCRIPTION                   |
|---------|--------------|-------------------------------|
| 31      | 645 094 2365 | ASSY PWB TUNER (Only initial) |
| C0108   | 645 055 6791 | POLY CAP 390PF                |
| CF101   | 645 051 6467 | BAND PASS FILTER              |
| CF102   | 645 055 1130 | CERAMIC FILTER                |
| CF103   | 645 055 1130 | CERAMIC FILTER                |
| CF104   | 645 055 6906 | CERAMIC FILTER                |
| CF105   | 645 094 1603 | CERAMIC FILTER                |
| CN101   | 645 042 9552 | HEADER 4PINS                  |
| CN102   | 645 051 6535 | 5P HEADER                     |
| CT101   | 645 023 6310 | TRIMMER 10PF                  |
| CT102   | 645 023 6310 | TRIMMER 10PF                  |
| D0101   | 645 073 8562 | DIODE 1N4148                  |
| D0102   | 645 073 8562 | DIODE 1N4148                  |
| D0104   | 645 073 8562 | DIODE 1N4148                  |
| D0107   | 645 073 8562 | DIODE 1N4148                  |
| IC101   | 645 080 5325 | IC LA1823                     |
| IC102   | 645 093 5190 | IC LC72131                    |
| JK102   | 645 062 1161 | ANTENNA JACK                  |
| L0101   | 645 023 6297 | VHF COIL                      |
| L0102   | 645 023 6280 | FM COIL                       |
| L0103   | 645 062 0775 | IFT,IFT OSC OA10-871104       |
| L0104   | 645 027 0352 | CHOKE COIL 100UH              |
| L0106   | 645 027 0352 | CHOKE COIL 100UH              |
| Q0107   | 645 080 5318 | TRANSISTOR 9018H              |
| Q0108   | 645 034 7078 | TR 2SC3330U                   |
| Q0109   | 645 080 5301 | TRANSISTOR 8050C.D            |
| Q0110   | 645 080 5318 | TRANSISTOR 9018H              |
| Q0111   | 645 080 5301 | TRANSISTOR 8050C.D            |
| T0101   | 645 055 6944 | IFT,IFT OSC 1A612R            |
| T0103   | 645 033 3866 | AM COIL,IFT IF 2070           |
| VD101   | 645 055 6807 | DIODE SVC201                  |
| VD102   | 645 055 6807 | DIODE SVC201                  |
| VD103   | 645 055 6814 | DIODE SVC348                  |
| X101A   | 645 062 0904 | CRYSTAL                       |
| ZD101   | 645 094 1917 | ZENER 5.1V                    |
|         | 645 042 0344 | CONTACT PIN                   |

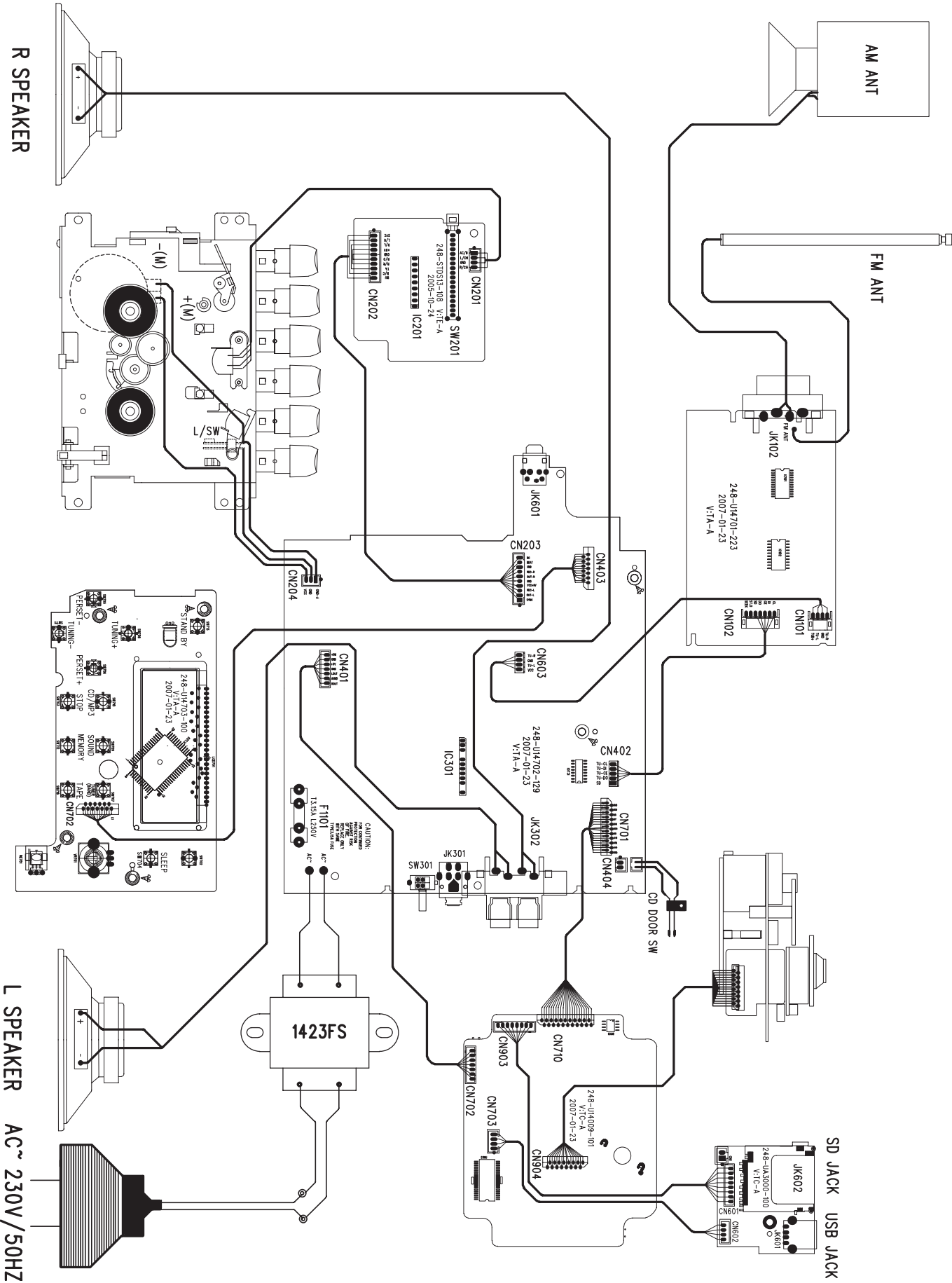
### USB/SD P.W.BOARD ASSY

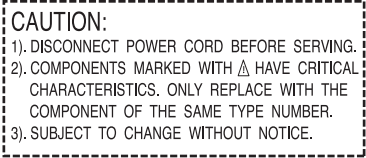
| REF.NO. | PART NO.     | DESCRIPTION                  |
|---------|--------------|------------------------------|
| 11      | 645 094 2358 | ASSY PWB USB (Only initial)  |
| CN601   | 645 094 1740 | 8P HEADER                    |
| JK601   | 645 094 1993 | USB CONNECTOR                |
| JK602   | 645 094 2006 | SD CARD SOCKET               |
| L0602   | 645 094 1979 | FER BEAD                     |
| L0603   | 645 094 1979 | FER BEAD                     |
| L0604   | 645 094 1979 | FER BEAD                     |
| L0605   | 645 094 1979 | FER BEAD                     |
|         | 645 094 2372 | HSG 4P,USB CN602 TO CD CN703 |
|         | 645 094 2396 | HSG 8P,USB CN601 TO CD CN903 |

### TAPE P.W.BOARD ASSY

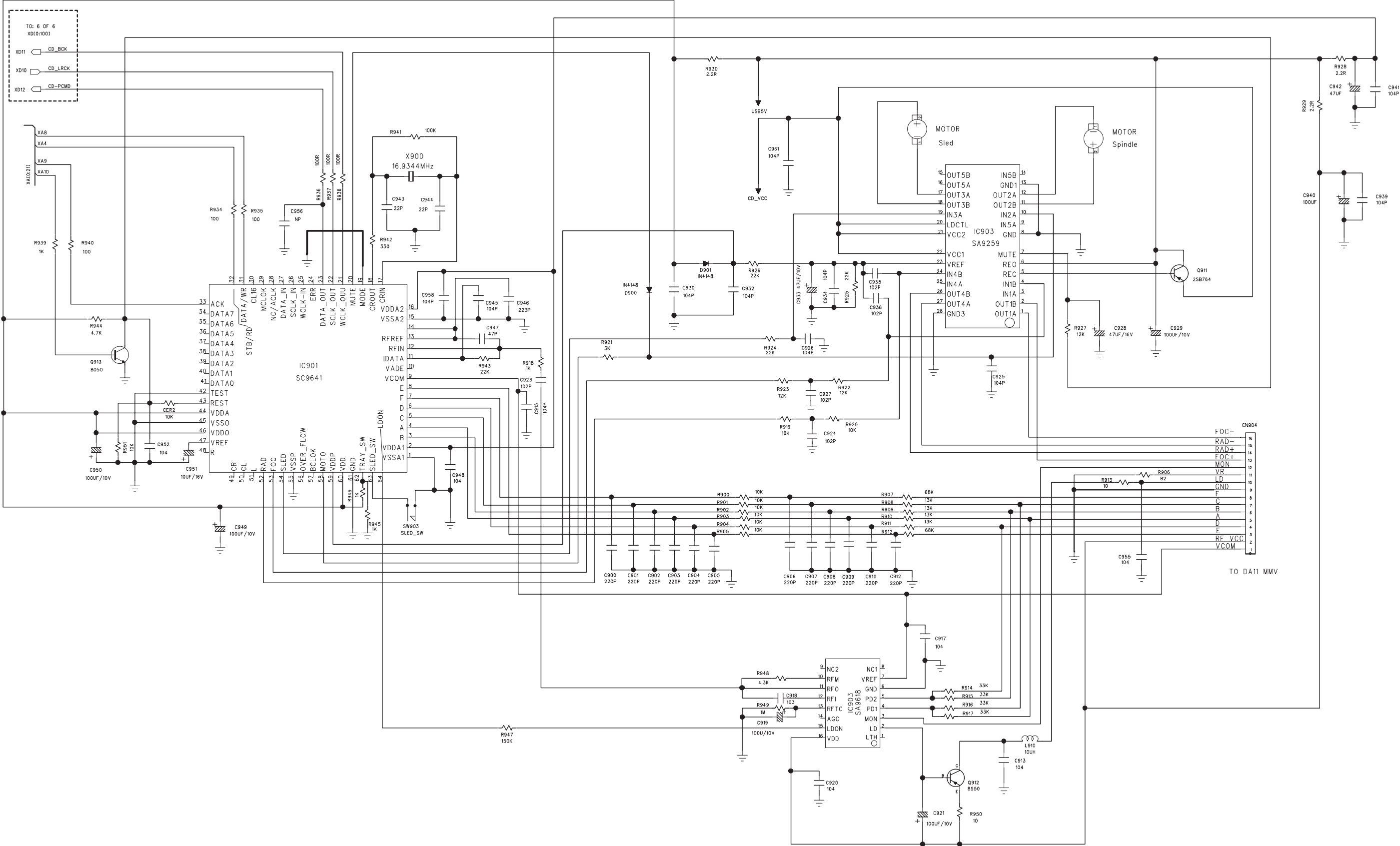
| REF.NO. | PART NO.     | DESCRIPTION                  |
|---------|--------------|------------------------------|
| 50      | 645 094 2327 | ASSY PWB TAPE (Only initial) |
| C0201   | 645 073 8005 | POLYESTER 0.0022U 100V       |
| C0202   | 645 073 7992 | POLYESTER 0.001U 100V        |
| C0208   | 645 073 8005 | POLYESTER 0.0022U 100V       |
| C0209   | 645 073 8005 | POLYESTER 0.0022U 100V       |
| C0210   | 645 073 8050 | POLYESTER 0.033U 100V        |
| C0211   | 645 073 8005 | POLYESTER 0.0022U 100V       |
| C0212   | 645 073 7992 | POLYESTER 0.001U 100V        |
| C0213   | 645 073 8050 | POLYESTER 0.033U 100V        |
| C0215   | 645 083 6060 | ELECT 1000U 10V              |
| C0803   | 645 073 8012 | POLYESTER 0.0033U 100V       |
| C0804   | 645 073 8043 | POLYESTER 0.022U 100V        |
| C0806   | 645 073 8029 | POLYESTER 0.01U 100V         |
| CN202   | 645 035 0115 | HEADER 10 PINS JST           |
| IC201   | 645 084 1408 | IC BA3308                    |
| L0201   | 645 079 6937 | INDUCTOR 15UH                |
| L0202   | 645 079 6937 | INDUCTOR 15UH                |
| L0203   | 645 079 6937 | INDUCTOR 15UH                |
| L0204   | 645 079 6937 | INDUCTOR 15UH                |
| Q0201   | 645 072 3162 | TRANSISTOR 9014C             |
| Q0202   | 645 072 3162 | TRANSISTOR 9014C             |
| Q0203   | 645 072 3162 | TRANSISTOR 9014C             |
| Q0801   | 645 072 3162 | TRANSISTOR 9014C             |
| Q0802   | 645 027 0420 | TR 8050C                     |
| SW201   | 645 023 6327 | SW RECORDING PS62D01-S(SH    |
| T0801   | 645 027 0307 | BIAS COIL,AC BIAS 3630       |

WIRING CONNECTION



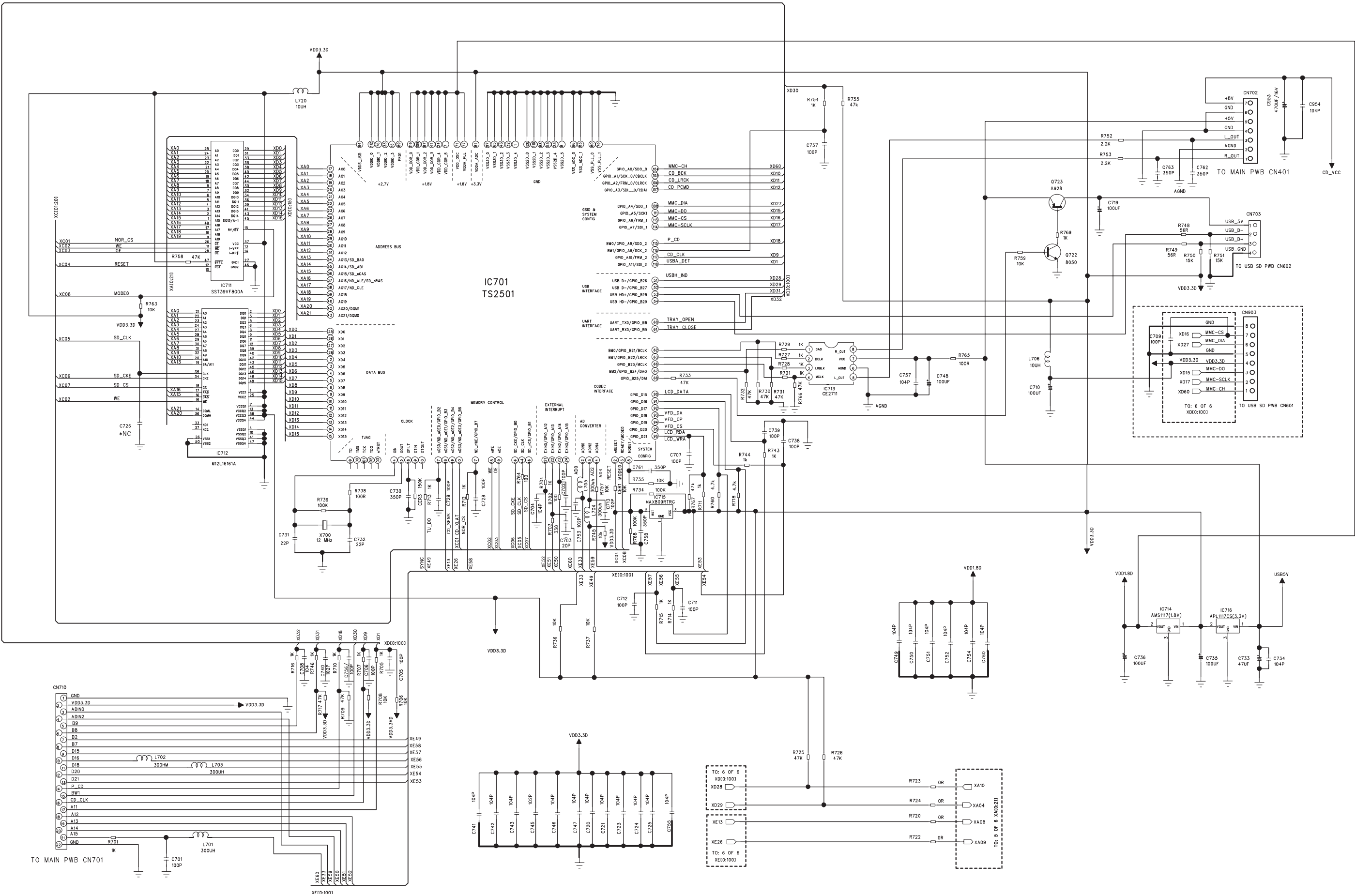


SCHEMATIC DIAGRAM (CD)

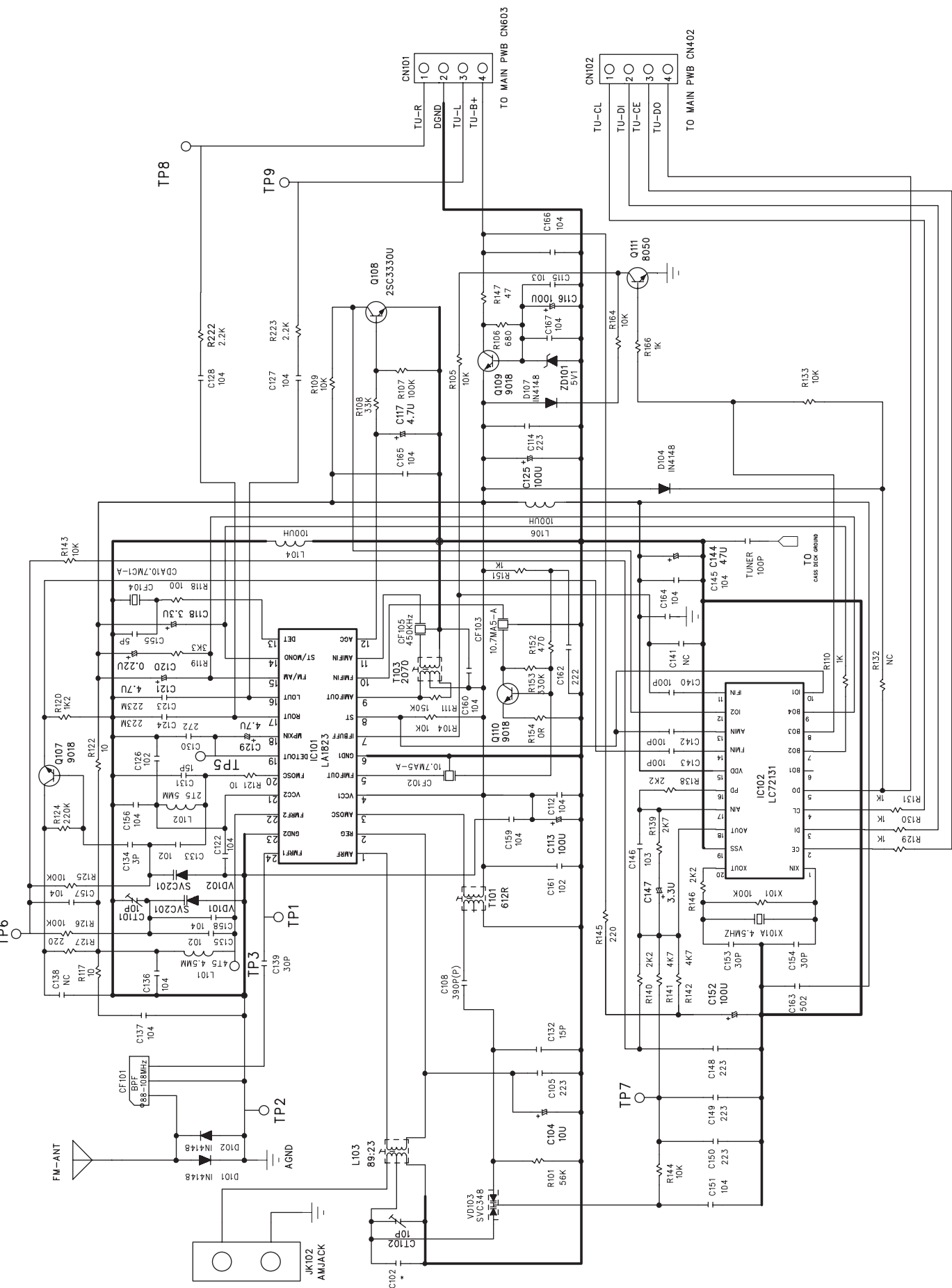


This is a basic schematic diagram.

SCHEMATIC DIAGRAM (MCU)

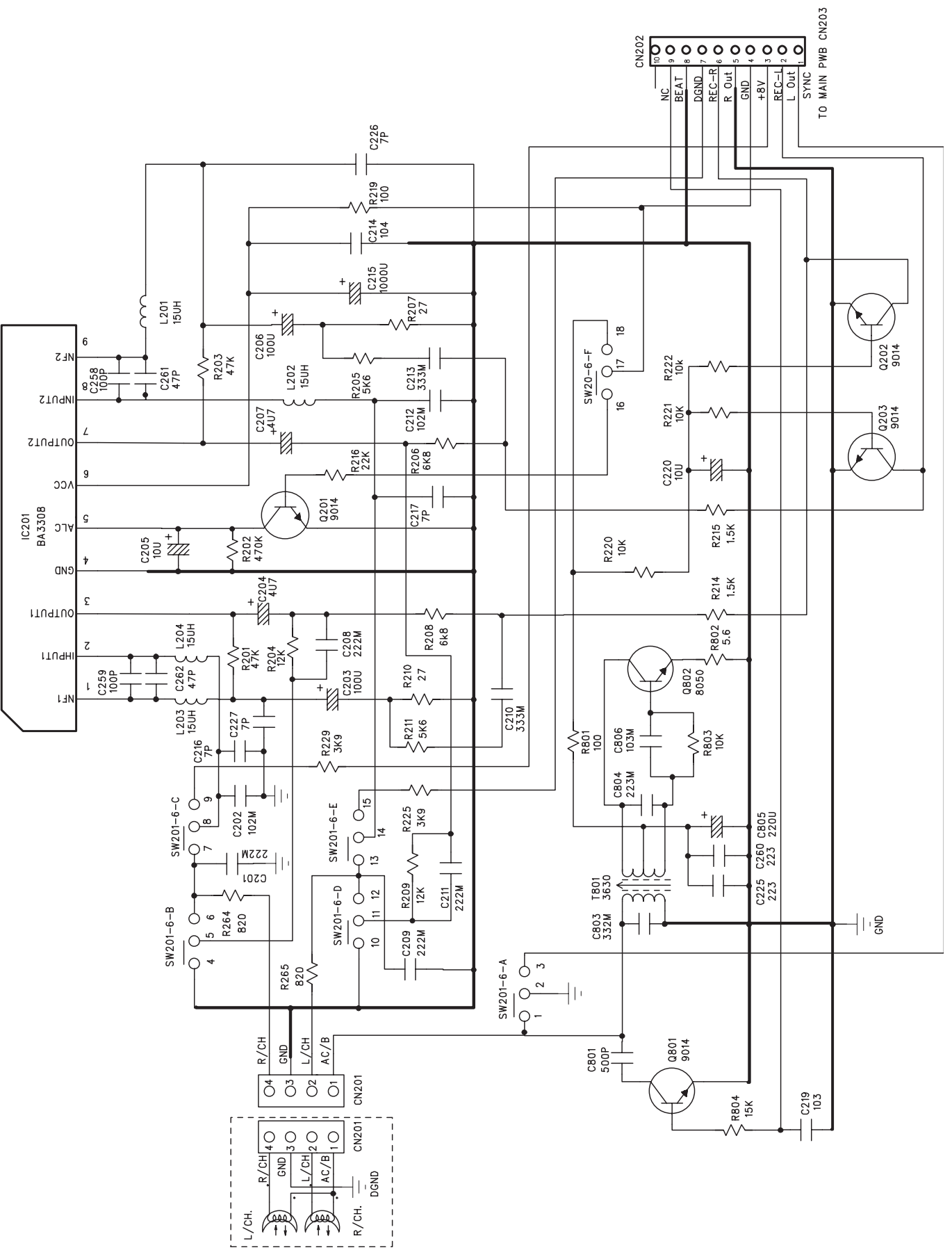


SCHEMATIC DIAGRAM (TUNER)



This is a basic schematic diagram.

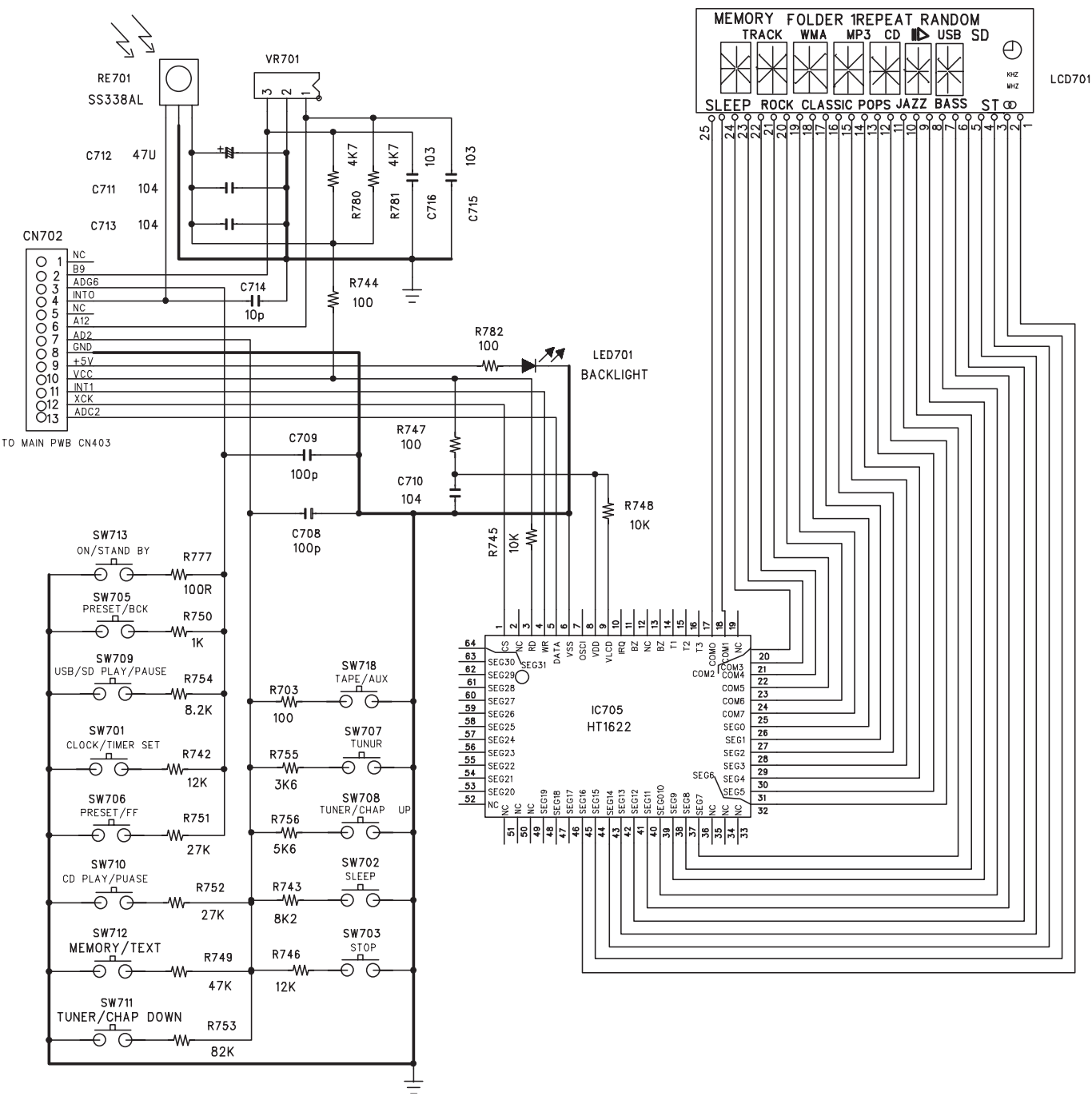
SCHEMATIC DIAGRAM (TAPE)



This is a basic schematic diagram.

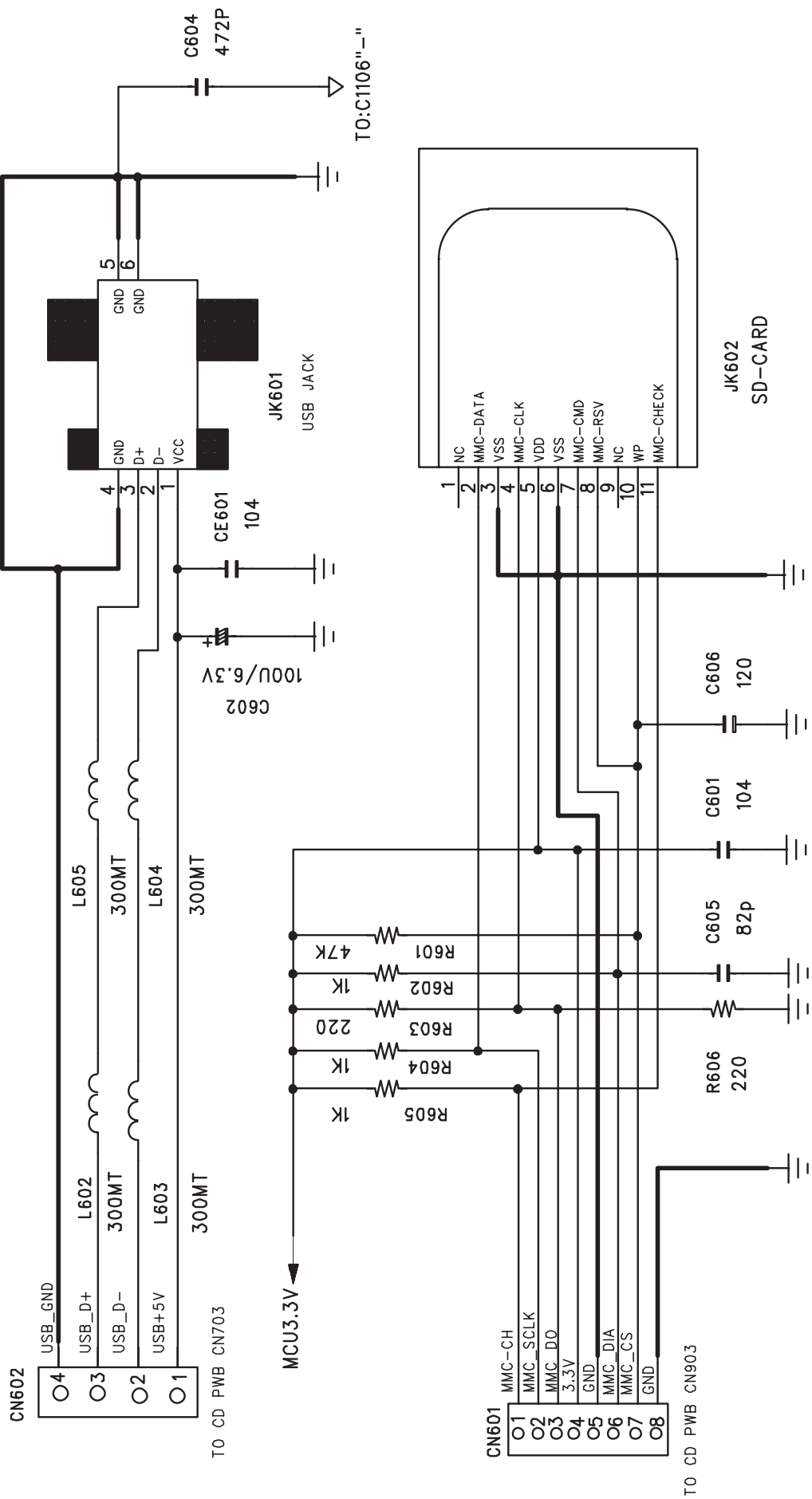


SCHEMATIC DIAGRAM (CONTROL)

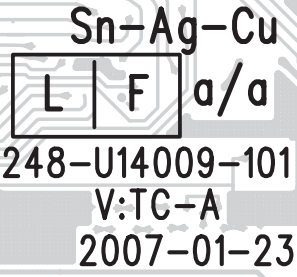


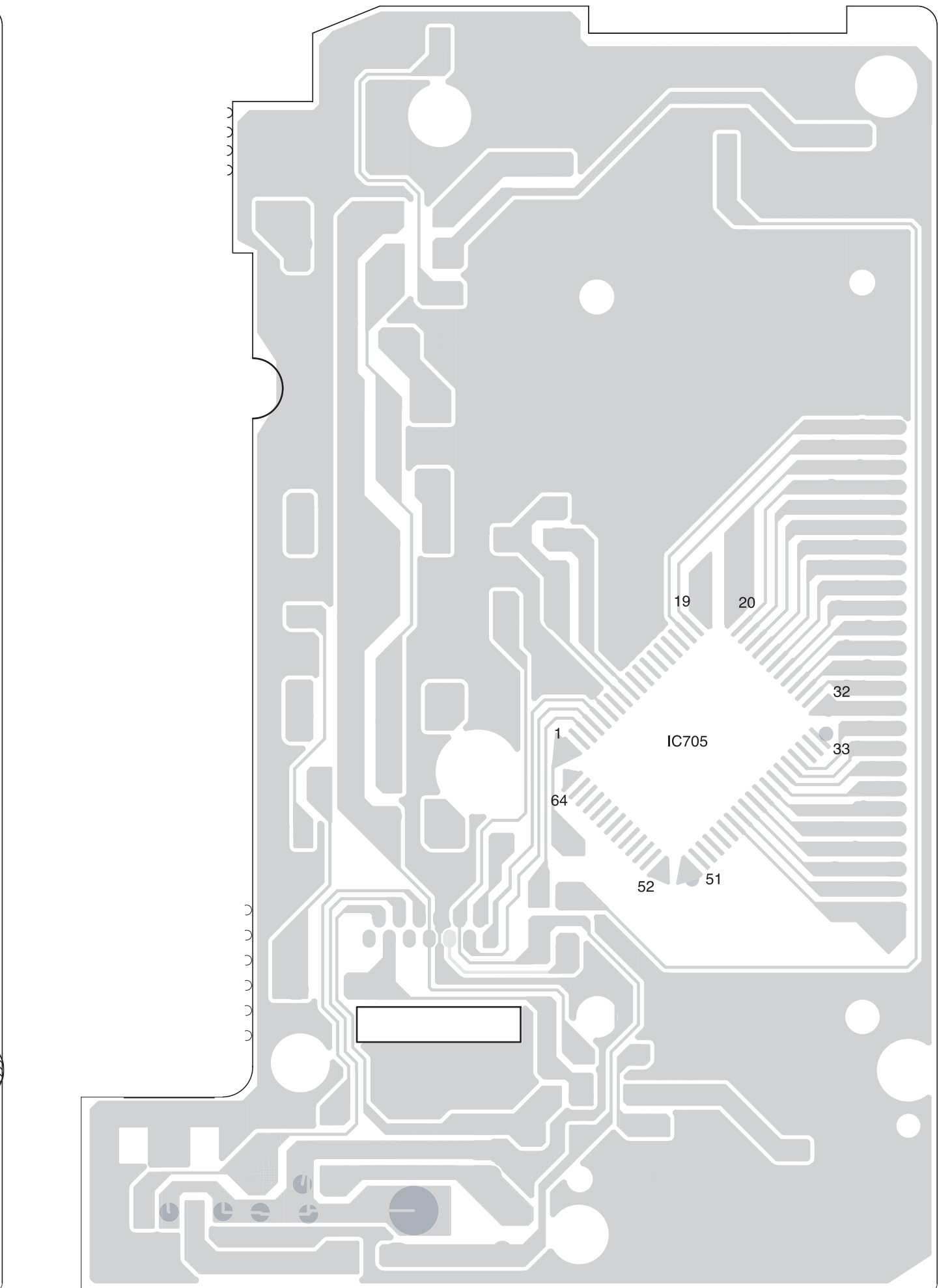
This is a basic schematic diagram.

SCHEMATIC DIAGRAM (USB/SD)

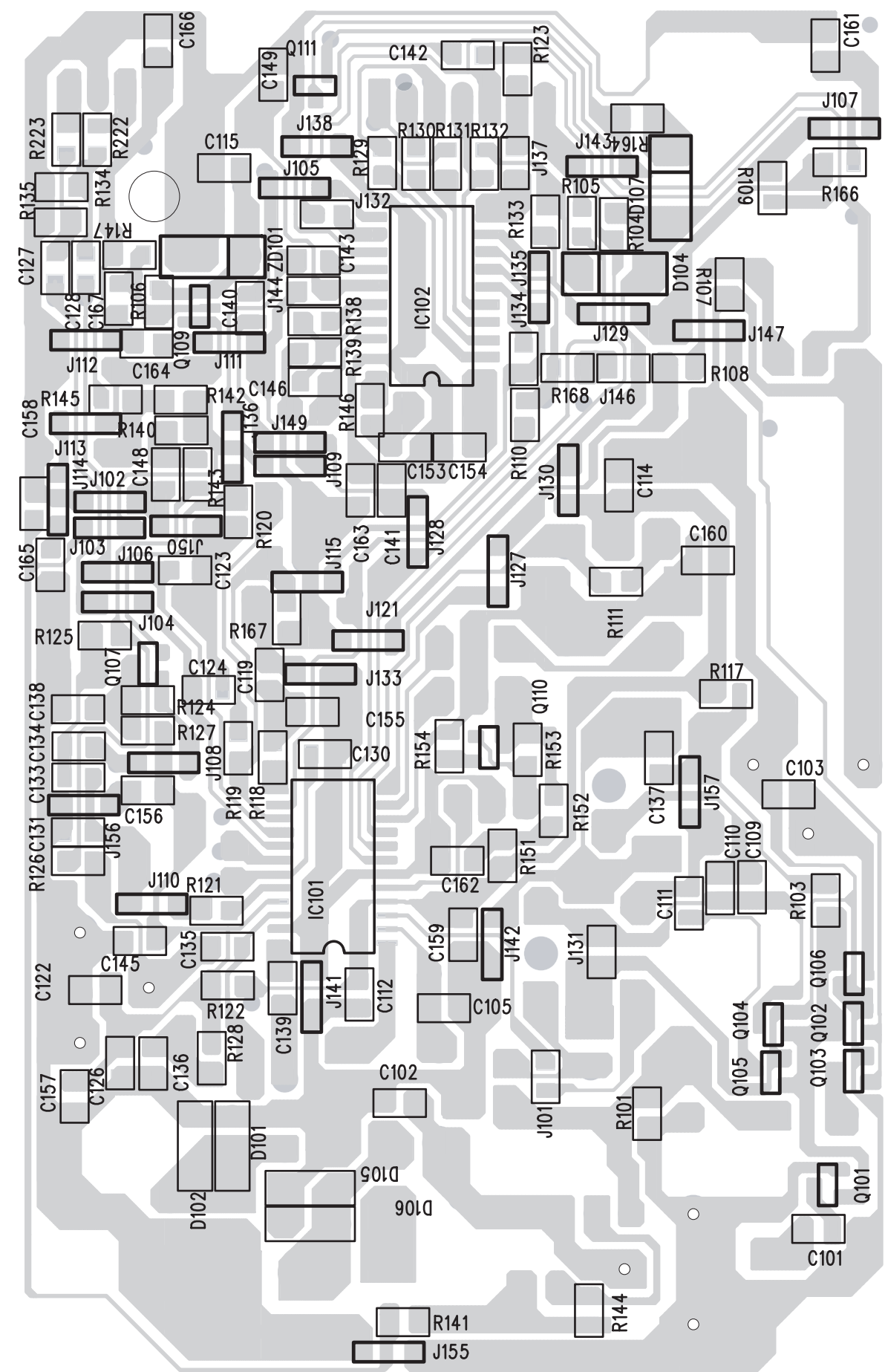
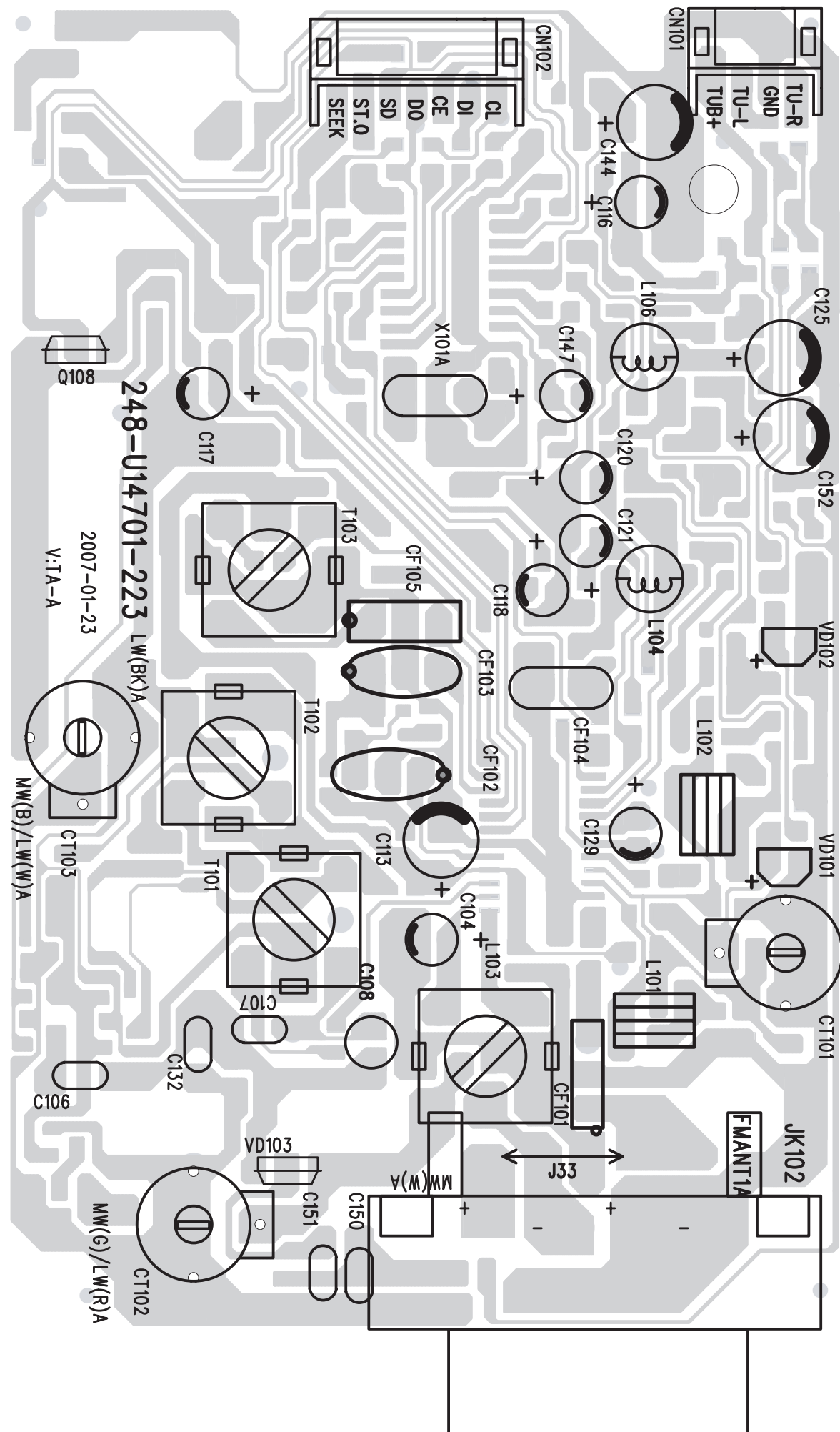


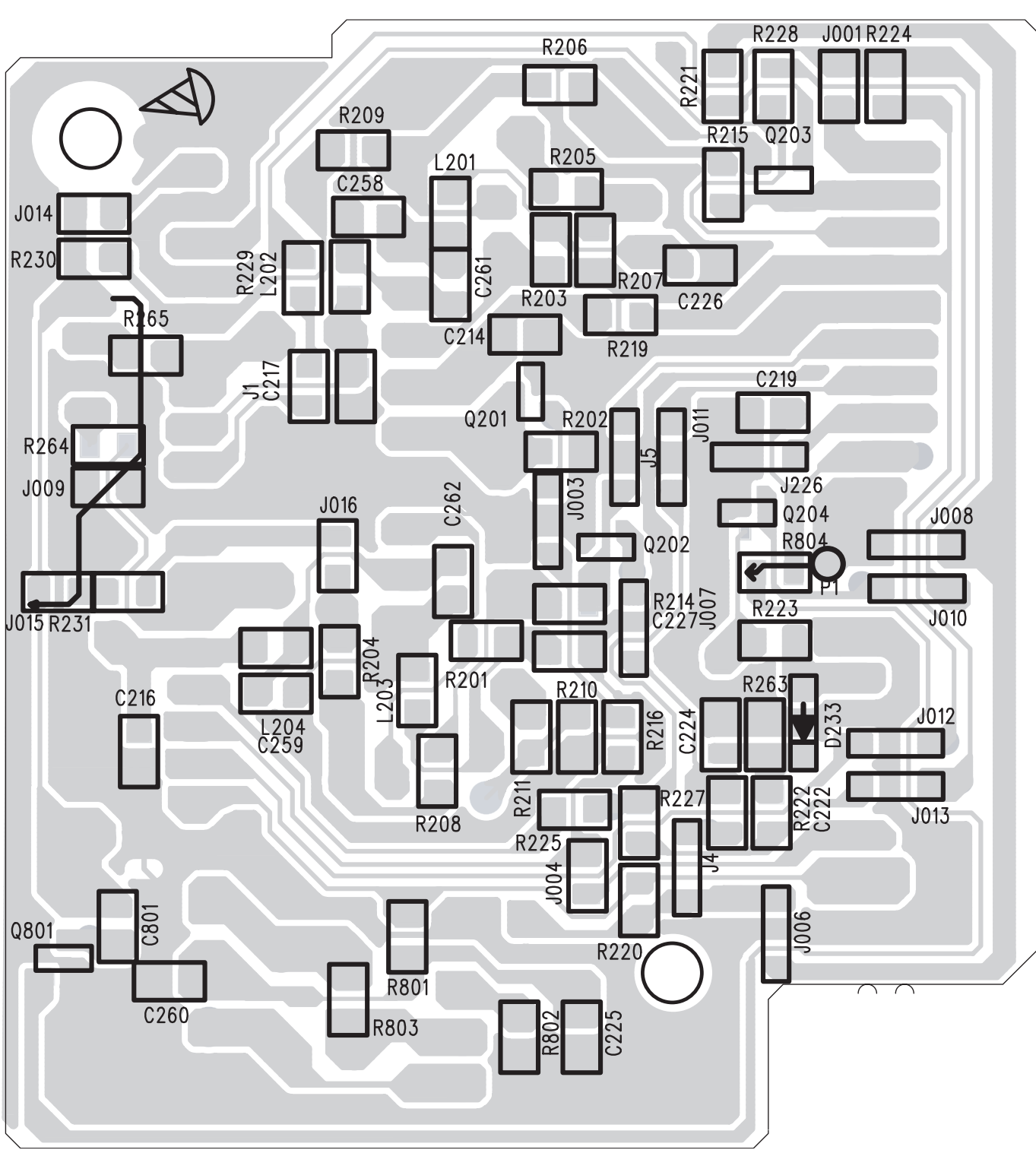
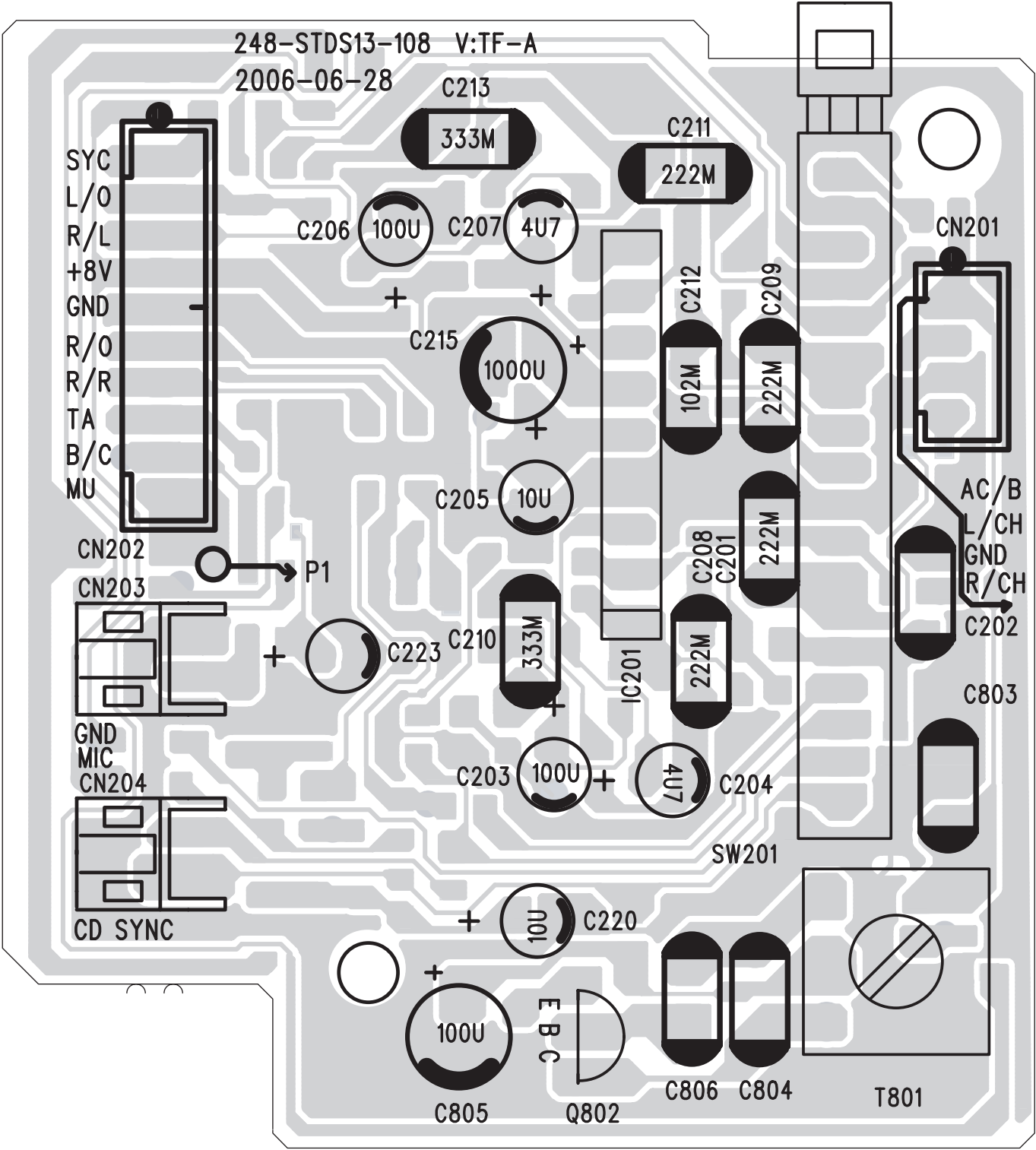
This is a basic schematic diagram.

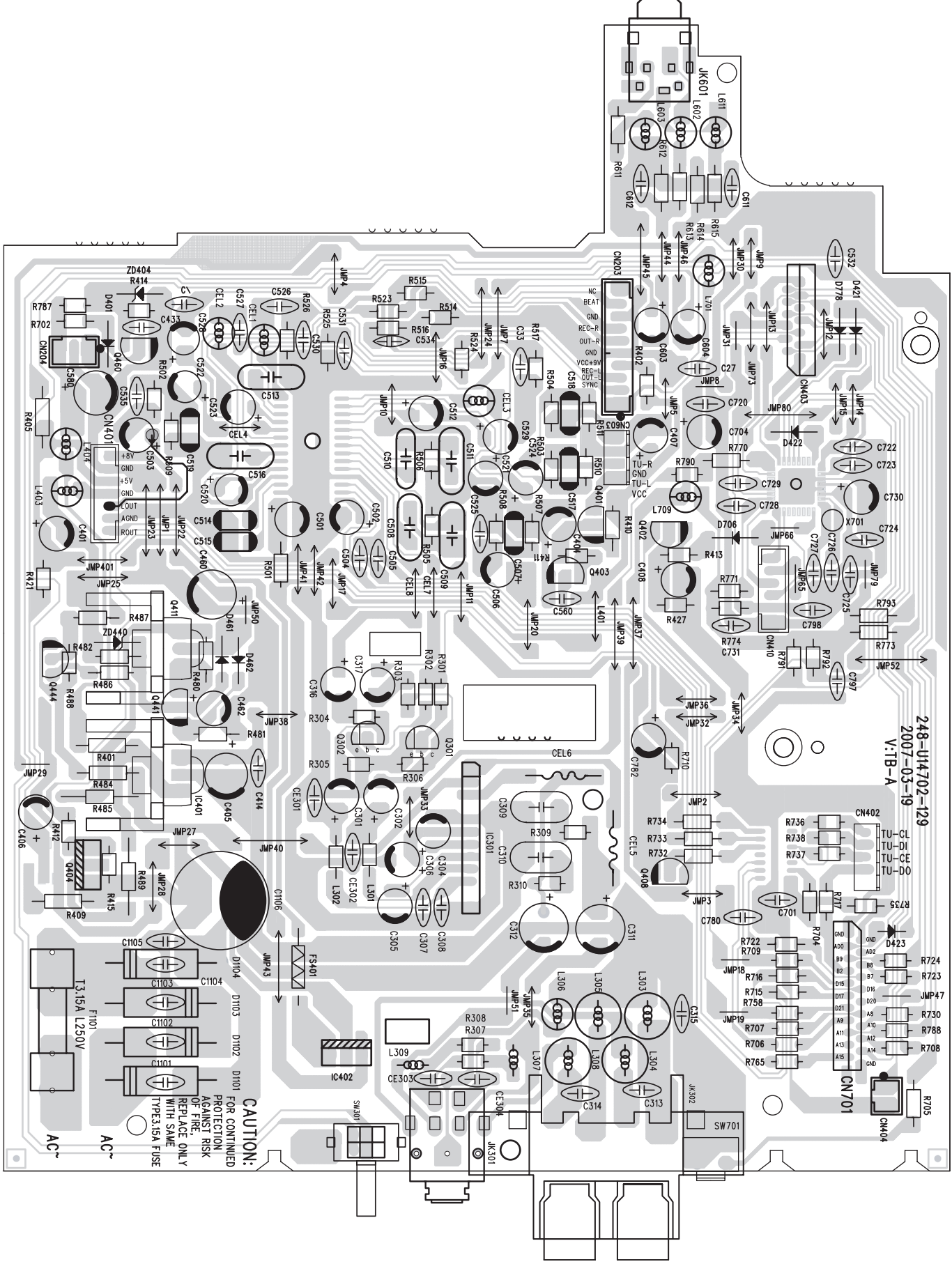
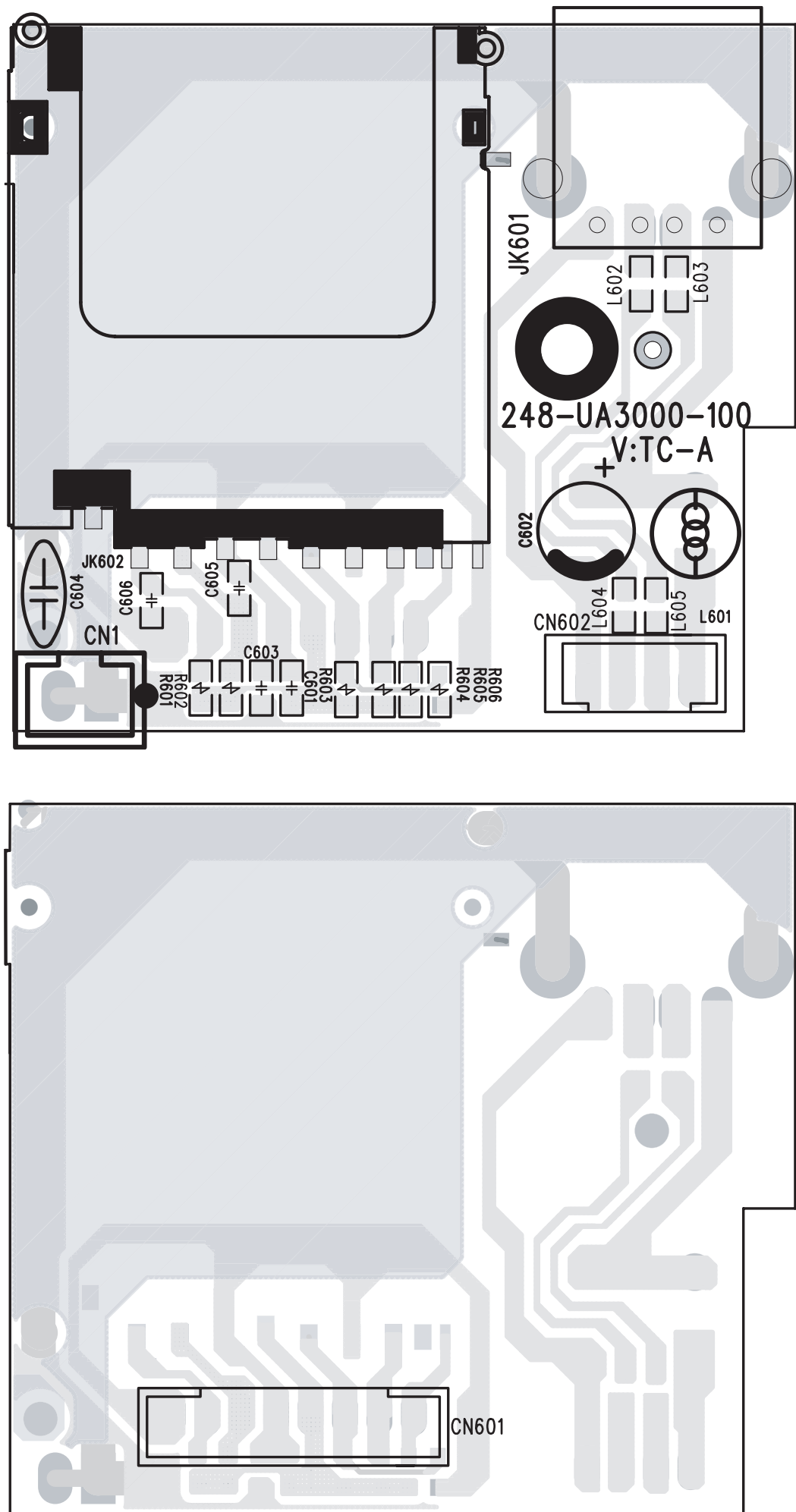












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