

**DAEWOO**

# **Service Manual**

## **MINI COMPONENT SYSTEM**

**Model : AMI-810L**



**DAEWOO ELECTRONICS CO., LTD.**  
**OVERSEAS SERVICE DEPT.**

## SAFETY PRECAUTION

**Warning:** TO prevent fire or electric shock, do not expose this appliance to rain or moisture.



### CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**



**Caution :** To reduce the risk of electric shock, do not remove cover (or back).  
No user serviceable parts inside.  
Refer servicing to qualified service personnel.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

### Caution

To prevent electric shock do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

## LASER SAFETY

This unit employs a laser. Only qualified service personnel should remove the cover or attempt to service this device due to possible eye injury.

### CAUTION:

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

### ATTENTION:

Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

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## 1. FEATURES

### Amplifier Section

- P.M.P.O 1000W, RMS 100W (50Wx2)
- Electronic encoder volume control
- 8 Equalizer preset mode
- Digital Signal Processor (LIVE/HALL/DISCO)
- UBS
- Digital MIC ECHO

### Tape Section

- Full Logic Double Cassette Deck
- Autoreverse & Auto Stop
- Synchro and one touch recording
- High speed dubbing
- Continuous play

### Tuner Section

- Multi function display (FLT)
- PLL synthesized tuning
- 30 preset memory stations
- Auto scan

### CD Player Section

- 3 CD rotary changer
- 30 music memory program
- 15 track music calendar
- Repeat play
- Intro play
- Random play
- Disc direct play

### Other Features

- 24 button Remote control
- 3 way front surround speaker system

## 2. SETTING UP

### CONNECTING FM FEED ANTENNA

Extend this antenna horizontally in a T-shape and fix its end to the wall with cellophane tape, etc.

### CONNECTING LOOP ANTENNA

Position to find the best direction and position for radio reception

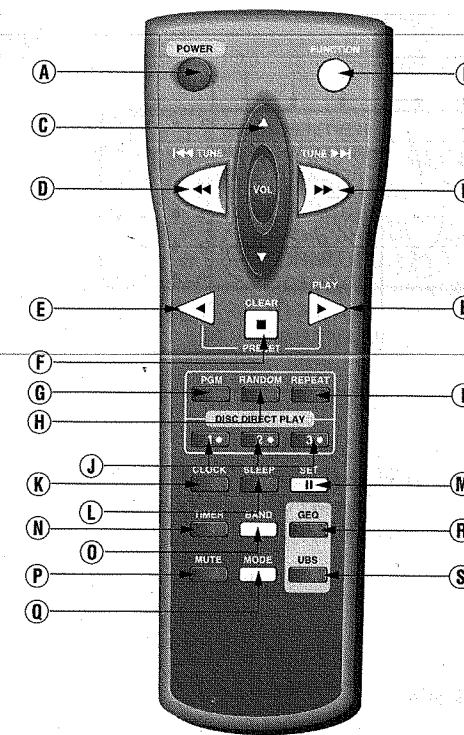
### CONNECTING THE SPEAKERS

Connect the right speaker cord to the SPEAKER R terminal and the left speaker cord to the SPEAKER L terminal with the red cords to ⊕ and the black cords to ⊖.

### CONNECTING THE SURROUND (AMI-810L ONLY)

Connect the right surround speaker cord to the SURROUND R terminal and the left surround speaker cord to the SURROUND L terminal.

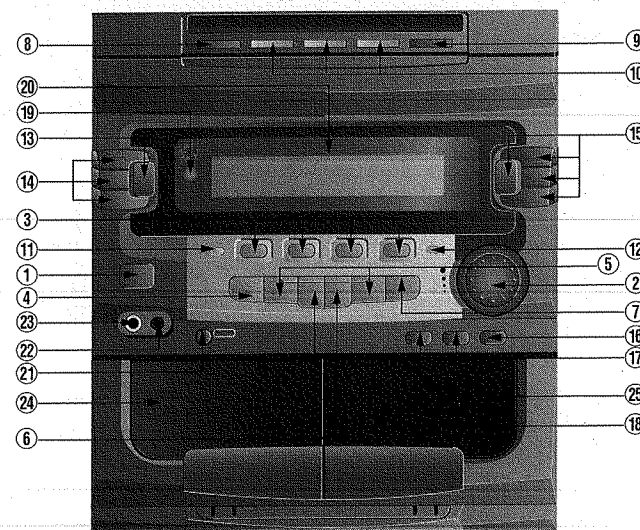
## Remote Control Unit



- A. POWER
- B. FUNCTION
- C. VOLUME
- D. <<<< (TUNE >>>>)
- E. <<<< PLAY (PRESET >>>>)
- F. CLEAR
- G. PROG
- H. RANDOM
- I. REPEAT
- J. DISC DIRECT PLAY 1, 2, 3
- K. CLOCK
- L. SLEEP
- M. ISET
- N. TIMER
- O. BAND
- P. MUTE
- Q. MODE
- R. GEO
- S. UBS

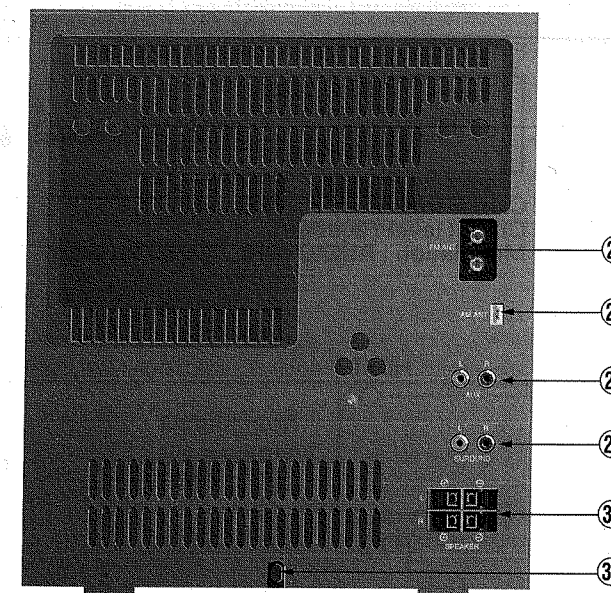
## 3. GENERAL LAYOUT

### Main Unit Front View



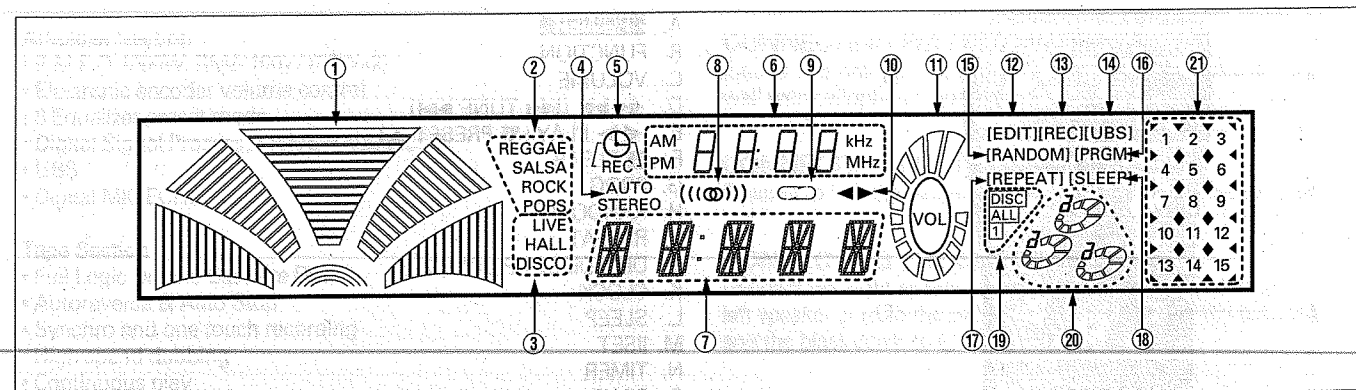
- 1. POWER STAND BY
- 2. VOLUME
- 3. TAPE 1/2, TUNER /BAND, AUX, CD
- 4. ISET
- 5. <<<< (DOWN-TUNE-UP/ >>>>)
- 6. PRESET/CD
- 7. CLEAR
- 8. DISC CHANGE
- 9. OPEN/CLOSE
- 10. DISC DIRECT PLAY 1, 2, 3
- 11. TIMER
- 12. UBS
- 13. DEMO/DISPLAY
- 14. DSP (LIVE/HALL/DISCO)
- 15. EQ PRESET  
ROCK/POP  
SAMBA/JAZZ  
MERENGUE/CLASSIC  
REGGAE/SALSA
- 16. REC
- 17. PLAY MODE (TAPE)
- 18. DUB SPEED/SYNC-DUB
- 19. REMOTE CONTROL SENSOR
- 20. DISPLAY
- 21. MIC MIX
- 22. MIC INPUT JACK
- 23. PHONES
- 24. TAPE1 OPEN
- 25. TAPE2 OPEN

### Main Unit Rear View



- 26. FM ANT. TERMINAL JACK
- 27. AM ANT. TERMINAL JACK
- 28. AUX INPUT JACK
- 29. SURROUND SPEAKER TERMINAL JACK
- 30. SPEAKER TERMINAL JACK
- 31. POWER CORD

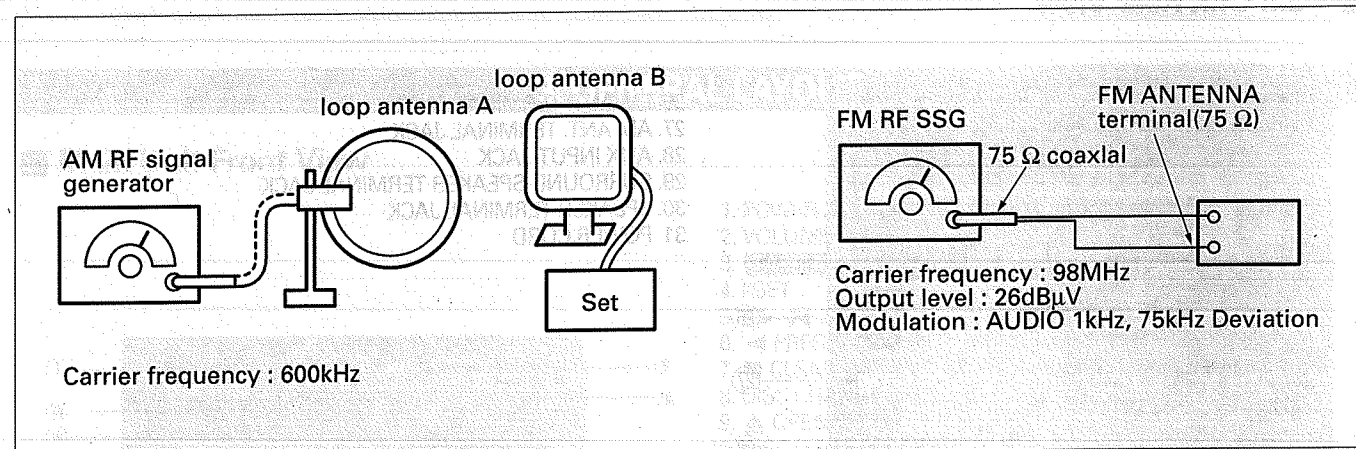
## Display



- |                                       |                    |
|---------------------------------------|--------------------|
| 1. GRAPHIC EQUALIZER                  | 11. VOLUME         |
| 2. EQ PRESET                          | 12. CD EDIT        |
| 3. DSP (LIVE/HALL/DISCO)              | 13. RECORDING      |
| 4. FM STEREO                          | 14. UBS            |
| 5. TIMER                              | 15. RANDOM PLAY    |
| 6. CLOCK/PLAYING TIME/TUNER FREQUENCY | 16. PROGRAM        |
| 7. FUNCTION                           | 17. REPEAT         |
| 8. SURROUND                           | 18. SLEEP          |
| 9. TAPE MODE                          | 19. DISC/ALL/1     |
| 10. TAPE DIRECTION                    | 20. DISC 1/2/3     |
|                                       | 21. MUSIC CALENDAR |

## 4. ADJUSTMENTS

### TUNER SECTION



#### TEST EQUIPMENT

1. Signal generator with a frequency range of AM broadcast
2. Oscilloscope with a side amplifier of approximately 100 kHz
3. Test loop-a coil of any size wire, one tune or more (MW)
4. FM 75/50 ohm dummy antenna
5. VTVM

#### AM/FM ALIGNMENT

1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period
2. Using the test loop antenna "A" across the output of the signal generator, inductively connect the signal generator to the radio
3. Connect the VTVM across test point on the PC board
4. Set signal generator frequency as listed in alignment chart and maintain a sufficient output level to provide an indication on VTVM

#### NOTE:

1. Use a screwdriver with plastic or ceramic grip for all adjustments
2. Standard test frequency 400 Hz and modulation 30% for AM
3. Standard test frequency 1 kHz and deviation 22.5 kHz for FM

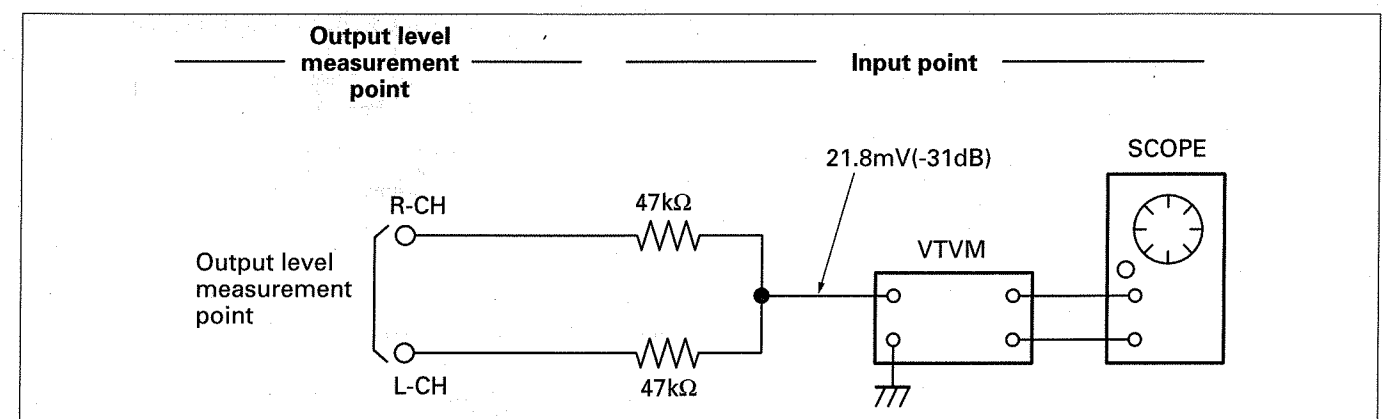
### FM AND AM RF, IF ALIGNMENT CHART

| STEP                                                                                                                                                                  | ITEM                     | INPUT CIRCUIT<br>SETUP                                                 | OUTPUT CIRCUIT<br>SETUP                                                | TUNER<br>SETTING                      | ADJ-POINT | ADJUSTMENT                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------|
| FM                                                                                                                                                                    |                          |                                                                        |                                                                        |                                       |           |                                                                                                              |
| UNLESS OTHERWISE SPECIFIED SET SWITCHES AS FOLLOWS: FM FUNCTION: FM MODE: STEREO. ADJUST GENERATOR FREQUENCY TO A CENTER OF THE FM BAND WHERE NO FM BROADCAST EXISTS. |                          |                                                                        |                                                                        |                                       |           |                                                                                                              |
| 1                                                                                                                                                                     | IF<br>ADJUSTMENT         | CONNECT STEREO<br>SIGNALGENERATOR<br>TO FM ANT<br>TERMINAL (J001)      | CONNECT DC<br>VOLTMETER TO TP13<br>AND TP12                            | FM<br>98MHz<br>75KHz<br>Dev.<br>26dBu | L203      | ADJUST FOR DC 0V±0.1V                                                                                        |
| 2                                                                                                                                                                     | AUTO STOP<br>SENSITIVITY | CONNECT STEREO<br>SIGNAL GENERATOR<br>TO FM ANT<br>TERMINAL (J001)     | CONNECT DC<br>VOLTMETER TO<br>TP11 AND TP10                            | FM<br>98MHz<br>75KHz<br>Dev.<br>26dBu | RV201     | ADJUST FOR<br>DC 1.17V±0.02V<br>CONFIRM STEREO<br>INDICATOR IS<br>LIGHTED AND L/R<br>CHANNEL IS<br>SEPARATED |
| AM                                                                                                                                                                    |                          |                                                                        |                                                                        |                                       |           |                                                                                                              |
| 3                                                                                                                                                                     | IF<br>ADJUSTMENT         | CONNECT STANDARD<br>LOOP ANTENNA TO<br>OUTPUT TERMINAL OF<br>GENESCOPE | CONNECT INPUT<br>TERMINAL OF<br>GENESCOPE AND VTVM<br>TO TP14 AND TP15 | AM<br>600KHz,<br>30%<br>Mod.<br>76dBu | L202      | ADJUST FOR MAX<br>AMPLITUDE WITH<br>SYMMETRICAL 450 kHz                                                      |

OTHERWISE ADJUSTMENT OF FM USABLE SENSITIVITY, FREQUENCY RANGE FOR FM, AM BAND ARE NOT NEEDED, BUT CONFIRM THESE DATA ARE SATISFIED WITH SPECIFICATION.

**CAUTION:** when realigning the FM receiving frequency the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in west Germany.

### TAPE SECTION



#### TEST TAPE BE USED

| TAPE     | CONTENTS | USE                         |
|----------|----------|-----------------------------|
| MTT-111N | 3KHz     | TAPE SPEED ADJUSTMENT       |
| MTT-114N | 10KHz    | HEAD AZIMUTH ADJUSTMENT     |
| MTT-5511 | BLANK    | RECORDED FREQUENCY PROPERTY |
| MTT-257E |          | PLAYBACK FREQUENCY PROPERTY |



- Head adjustment (azimuth)
  - 10 kHz test tape (example: MTT-114N) must be used for this adjustment.
  - Connect to VTVM or oscilloscope to the headphone jack or speaker terminal.
  - Press the play button.
  - Adjust the azimuth by using a screw driver to maintain the maximum L & R output voltage.
  - Please secure the azimuth position by using locking paint.

- Recording bias oscillator frequency adjustment
  - Connect the frequency counter to TP601, GND.
  - Press rec button.
  - Adjust L603 obtain 80 kHz $\pm$ 100Hz.

#### TAPE ALIGNMENT CHART

|   | ITEM                                 | REFERENCE VALUE                 | TAPE        | ADJUSTMENT POINT | TEST POINT | NOTE                                                                       | FIG.       |
|---|--------------------------------------|---------------------------------|-------------|------------------|------------|----------------------------------------------------------------------------|------------|
| 1 | TAPE SPEED ADJUSTMENT                | NORMAL                          |             |                  |            |                                                                            |            |
|   |                                      |                                 | 3015~3025Hz | MTT-111 N        | RV601      | CONFIRM WOW & FLUTTER IS WITHIN 0.35%                                      | FIG1       |
|   |                                      |                                 | 3000~3010Hz | MTT-111 N        |            | CONFIRM TAPE SPEED OF END POSITION AFTER ADJUSTMENT AT TAPE START POSITION |            |
|   | HIGH                                 |                                 | 5820~6180Hz | MTT-111 N        | -          | CONFIRM HIGH SPEED AFTER NORMAL SPEED ADJUSTMENT                           |            |
| 2 | AZIMUTH ADJUSTMENT                   | MAXIMUM LEVEL PHASE: WITHIN 90° | MTT-114 N   | HEAD SCREW       |            |                                                                            | FIG2, 3, 4 |
| 3 | BIAS OSCILLATOR FREQUENCY ADJUSTMENT | 80kHz $\pm$ 0.5                 | AC-212      | L603             | TP601 GND  | ADJUST WITH FREQUENCY COUNTER CONNECTED                                    | FIG5       |

FIG 1 TAPE SPEED ADJUSTMENT

FIG 1  
Procedure:  
• Perform NORMAL speed adjustment and after check high speed.  
Mode: Playback

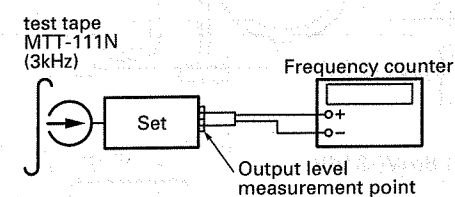


FIG 2  
TAPE AZIMUTH ADJUSTMENT  
• Adjustment Location:  
-record/playback head (Deck A) (Only AMI-810L)

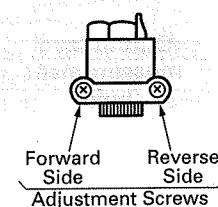


FIG 3  
TAPE AZIMUTH ADJUSTMENT

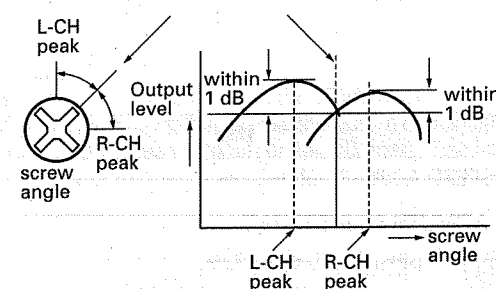
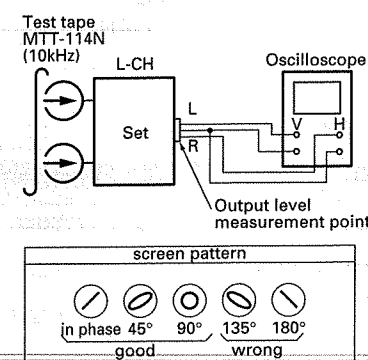


FIG 4  
TAPE AZIMUTH ADJUSTMENT



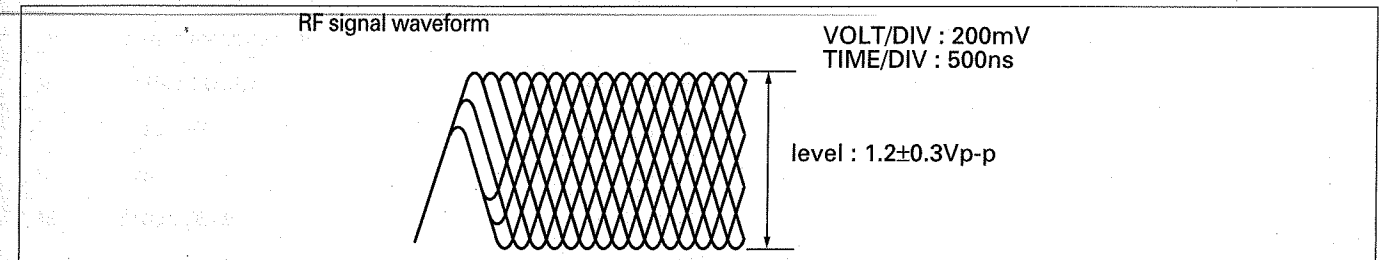
#### CD SECTION

##### NOTE:

- Use the oscilloscope with more than 10M ohm impedance.
- Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

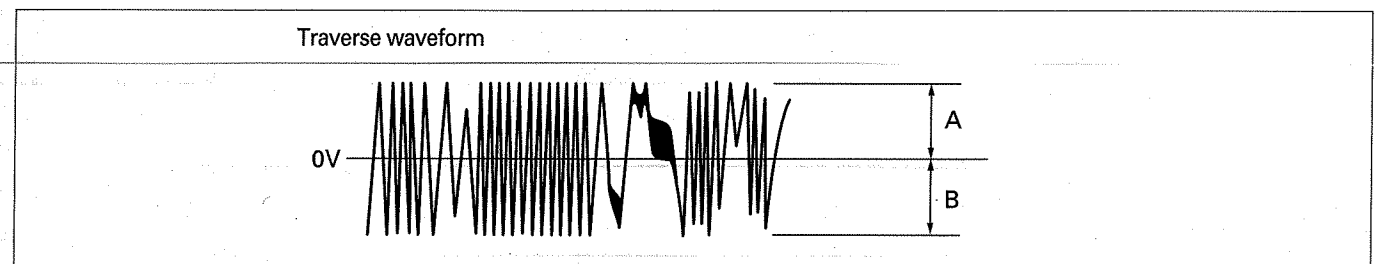
##### RF LEVEL CHECK

- Connect oscilloscope to test point TP502 and IC502, PIN66 on PC board.
- Turn power switch on.
- Put Test CD (TCD-781) in and press the play Button then pause button.
- Confirm that oscilloscope waveform is clear.  
Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.
- Adjust RV501 to get a clear waveform and maximum amplitude.



##### E-F BALANCE ADJUSTMENT PROCEDURE

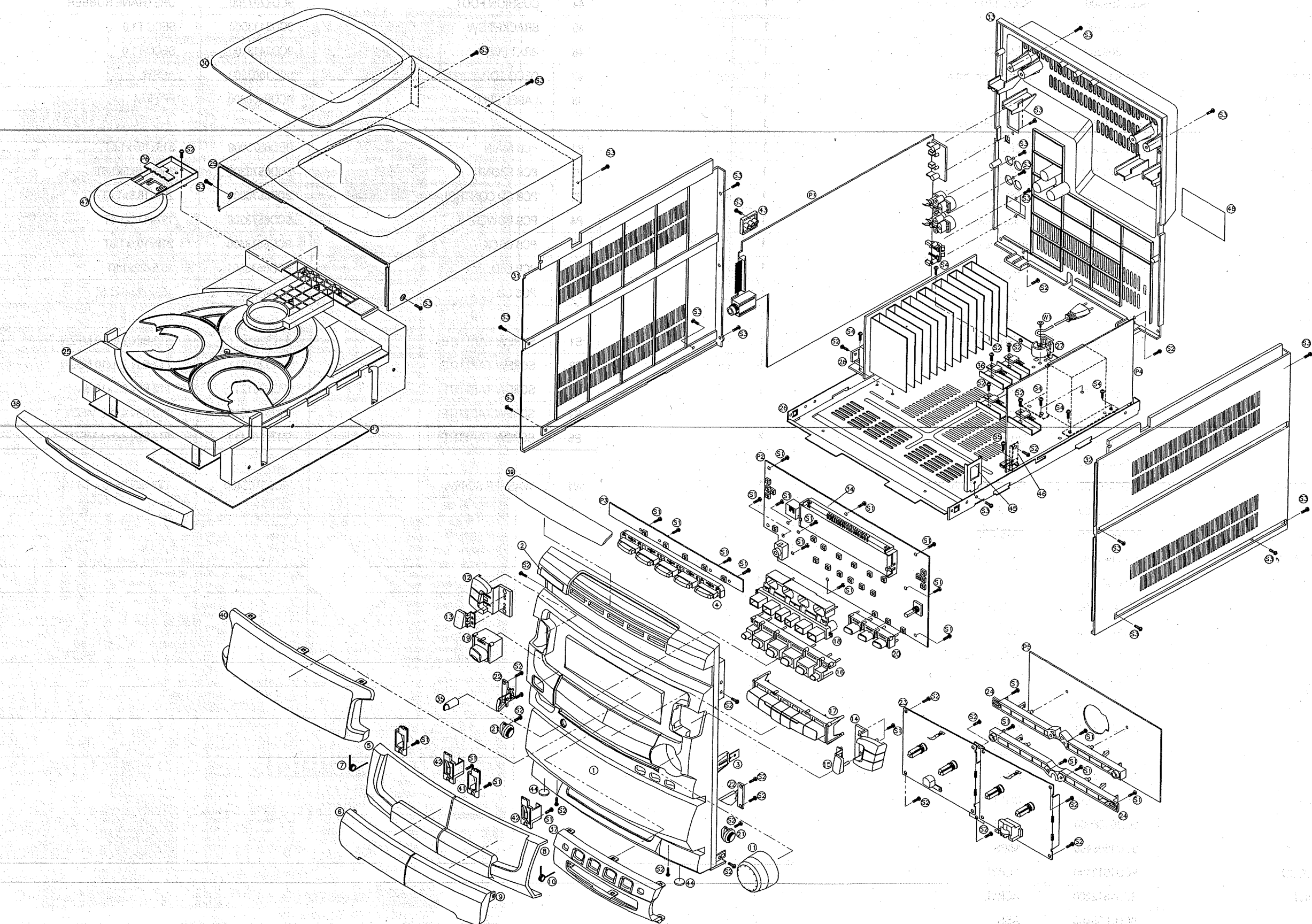
- Connect oscilloscope to test point TP502 and TP503 on PC board.
- Turn power switch on.
- Put Test Disc (TCD-781) in and press play Button then pause button.
- Pressing FF (Fast Forward) Button, adjust RV502 to get that the oscilloscope waveform is symmetrical on the top and the bottom in relation to 0V, and check this level.



\* Design and specifications may be subject to change without notice.

## 5. EXPLODED VIEW AND PARTS LIST

### MAIN UNIT

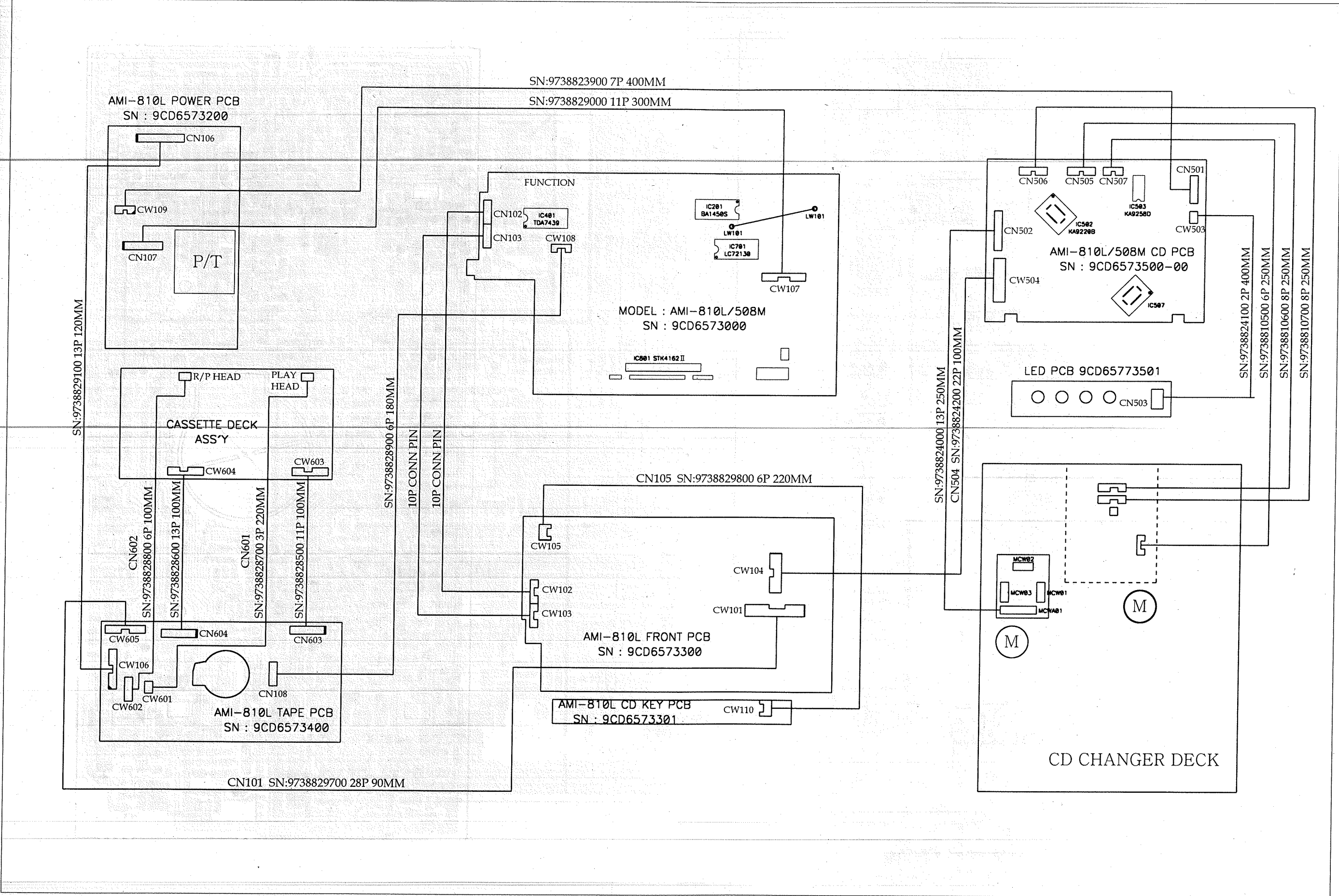


| NO | PART NAME             | PART NUMBER | DESCRIPTION          | QTY |
|----|-----------------------|-------------|----------------------|-----|
| 1  | PANEL FRONT           | 9CD0305000- | MIPS. SP. SILK 200GR | 1   |
| 2  | BADGE DAEWOO          | 9CD1500900  | ABS                  | 1   |
| 3  | BRKT FIXING           | 9CD2408900  | SECC 1.0T            | 1   |
| 4  | KNOB DISC             | 9CD1331100  | ACRYL                | 1   |
| 5  | DOOR CASS "A"         | 9CD1808200  | MIPS. SP             | 1   |
| 6  | WINDOW DOOR "A"       | 9CD1612300  | ACRYL. SP. SILK      | 1   |
| 7  | SPRING DOOR EJECT "A" | 9CD30077A0  | SUS                  | 1   |
| 8  | DOOR CASS "B"         | 9CD1808300  | MIPS. SP. SILK       | 1   |
| 9  | WINDOW DOOR "B"       | 9CD1612400  | ACRYL. SILK.         | 1   |
| 10 | SPRING DOOR EJECT "B" | 9CD30077B0  | SUS                  | 1   |
| 11 | KNOB VR               | 9CD1332100  | ABS                  | 1   |
| 12 | KNOB EQ "L"           | 9CD1331500  | ABS. SILK.           | 1   |
| 13 | KNOB DEMO "L"         | 9CD1331700  | ABS. SILK.           | 1   |
| 14 | KNOB EQ "R"           | 9CD1331600  | ABS. SILK.           | 1   |
| 15 | KNOB DEMO "R"         | 9CD1331800  | ABS. SILK.           | 1   |
| 16 | KNOB FUNCTION         | 9CD1331200  | ACRYL SP SILK        | 1   |
| 17 | KNOB DECK             | 9CD1331900  | ACRYL SP SILK        | 1   |
| 18 | COVER LED             | 9CD0409000  | ABS                  | 1   |
| 19 | KNOB POWER            | 9CD1331300  | ABS. SILK.           | 1   |
| 20 | KNOB MODE             | 9CD1331400  | ABS. SILK.           | 1   |
| 21 | DAMPER AS             | 9CD2602900  | DA-10                | 2   |
| 22 | LOCKER CD             | 9CD0B01200  | ABS                  | 2   |
| 23 | DECK MECHA. (CASS)    | 9CD6005600  | S/S, ADR-2135MW      | 1   |
| 24 | HOLDER PCB            | 9CD2303600  | MIPS                 | 2   |
| 25 | CD DECK MECHA.        | 9CD6005500  | CMS-CR3              | 1   |
| 26 | CHASSIS BOTTOM        | 9CD0607100  | SECC 1.0T            | 1   |
| 27 | HOLDER AC CORD        | 9CD2303300  | ABS                  | 1   |
| 28 | HEAT SINK             | 9CD4403600  | AL 2.5T + 1.0T       | 1   |
| 29 | COVER TOP             | 9CD0409100  | MIPS.                | 1   |
| 30 | WINDOW TOP            | 9CD1612900  | ACRYL. SILK          | 1   |
| 31 | COVER SIDE "L"        | 9CD0409200  | MIPS.                | 1   |
| 32 | COVER SIDE "R"        | 9CD0409300  | MIPS.                | 1   |
| 33 | COVER BACK            | 9CD0409400  | MIPS.                | 1   |
| 34 | HOLDER FLT            | 9CD2303500  | ABS                  | 1   |
| 35 | KNOB MIC              | 9CD1332000  | ABS                  | 1   |
| 36 | HEAT SINK TR B        | 9714403200  | BsP T1.0             | 4   |
| 37 | COVER FRONT           | 9CD0408900  | MIPS                 | 1   |
| 38 | DOOR CD               | 9CD1808400  | MIPS                 | 1   |
| 39 | WINDOW CD DECO        | 9CD1612100  | ACRYL                | 1   |
| 40 | WINDOW FRONT          | 9CD1612200  | ACRYL                | 1   |
| 41 | GUIDE TAPE L          | 9CD2505400  | ABS                  | 2   |

| NO | PART NAME      | PART NUMBER | DESCRIPTION         | QTY |
|----|----------------|-------------|---------------------|-----|
| 42 | GUIDE TAPE R   | 9CD2505500  | ABS                 | 2   |
| 43 | BRKT SIDE      | 9CD2412900  | ABS                 | 1   |
| 44 | CUSHION FOOT   | 9CD4207700  | URETHANE RUBBER     | 2   |
| 45 | BRACKET SW     | 9CD2413500  | SECC T1.0           | 1   |
| 46 | BRKT PCB A     | 9CD2413100  | SECC T1.0           | 1   |
| 47 | DECO TOP       | 9CD1002200  | ACRYL               | 1   |
| 48 | LABEL SPEC     | 9CDP308600  | PE FILM             | 1   |
| P1 | PCB MAIN       | 9CD6573000  | 319x197x1.6T        | 1   |
| P2 | PCB FRONT      | 9CD6573300  | 256x145.5x1.6T      | 1   |
| P3 | PCB CD CONTROL | 9CD6573301  | 207x16.5x1.6T       | 1   |
| P4 | PCB POWER      | 9CD6573200  | 197x115x1.6T        | 1   |
| P5 | PCB DECK       | 9CD6573400  | 218x107x1.6T        | 1   |
| P6 | PCB LED        | 9CD6573501  | 39.5x22x1.6T        | 1   |
| P7 | PCB CD         | 9CD6573500  | 163x123.5x1.6T      | 1   |
| S1 | SCREW TAPTTITE | 7173261011  | TT2 BIN 2.6x10 MFZN | 31  |
| S2 | SCREW TAPTTITE | 7173301011  | TT2 BIN 3.0x10 MFZN | 26  |
| S3 | SCREW TAPTTITE | 7173301212  | TT2 BIN 3.0x12 BK   | 29  |
| S4 | SCREW TAPTTITE | 7273400611  | TT3 BIN 4.0x6 MFZN  | 8   |
| S5 | SCREW TAPTTITE | 7173300411  | TT2 BIN 3.0x4 MFZN  | 1   |
| W1 | WASHER SCREW   | 9CD3102400  | TT2 BIN 3x10 + D14  | 1   |



## 6. WIRING DIAGRAM

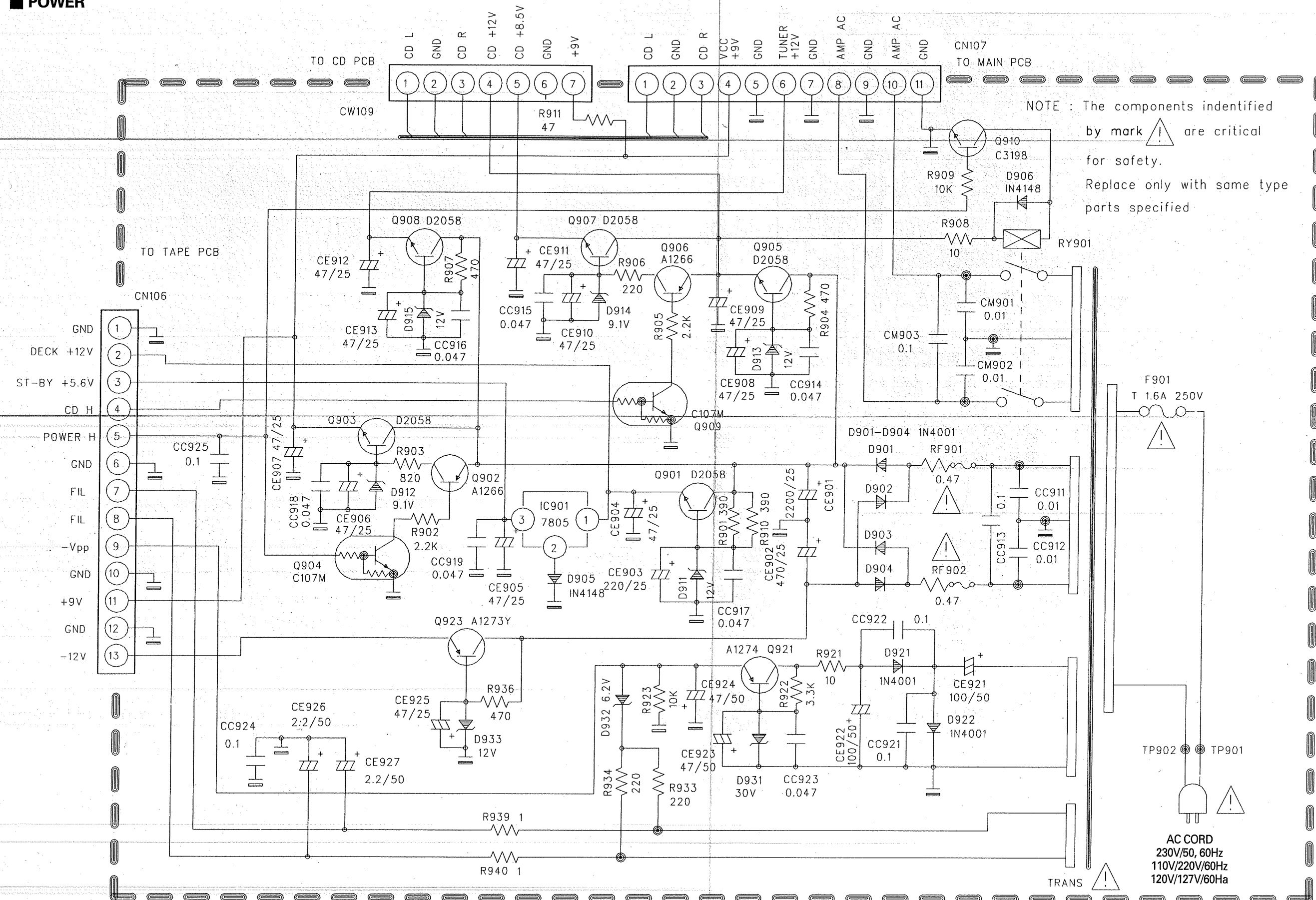


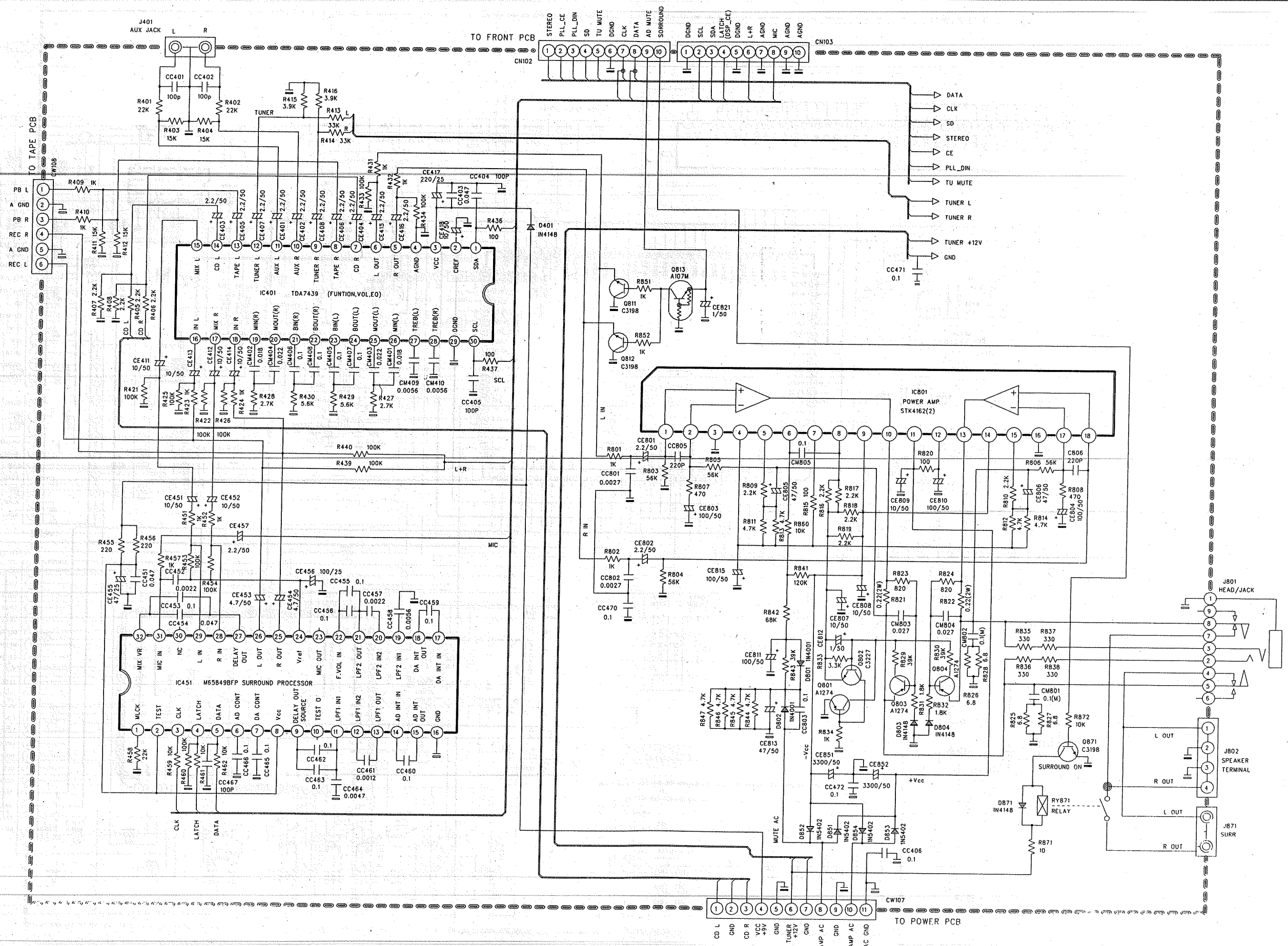


## 8. SCHEMATIC DIAGRAM

\* All Schematic diagrams may be modified at any time with the development of new technology.

### POWER

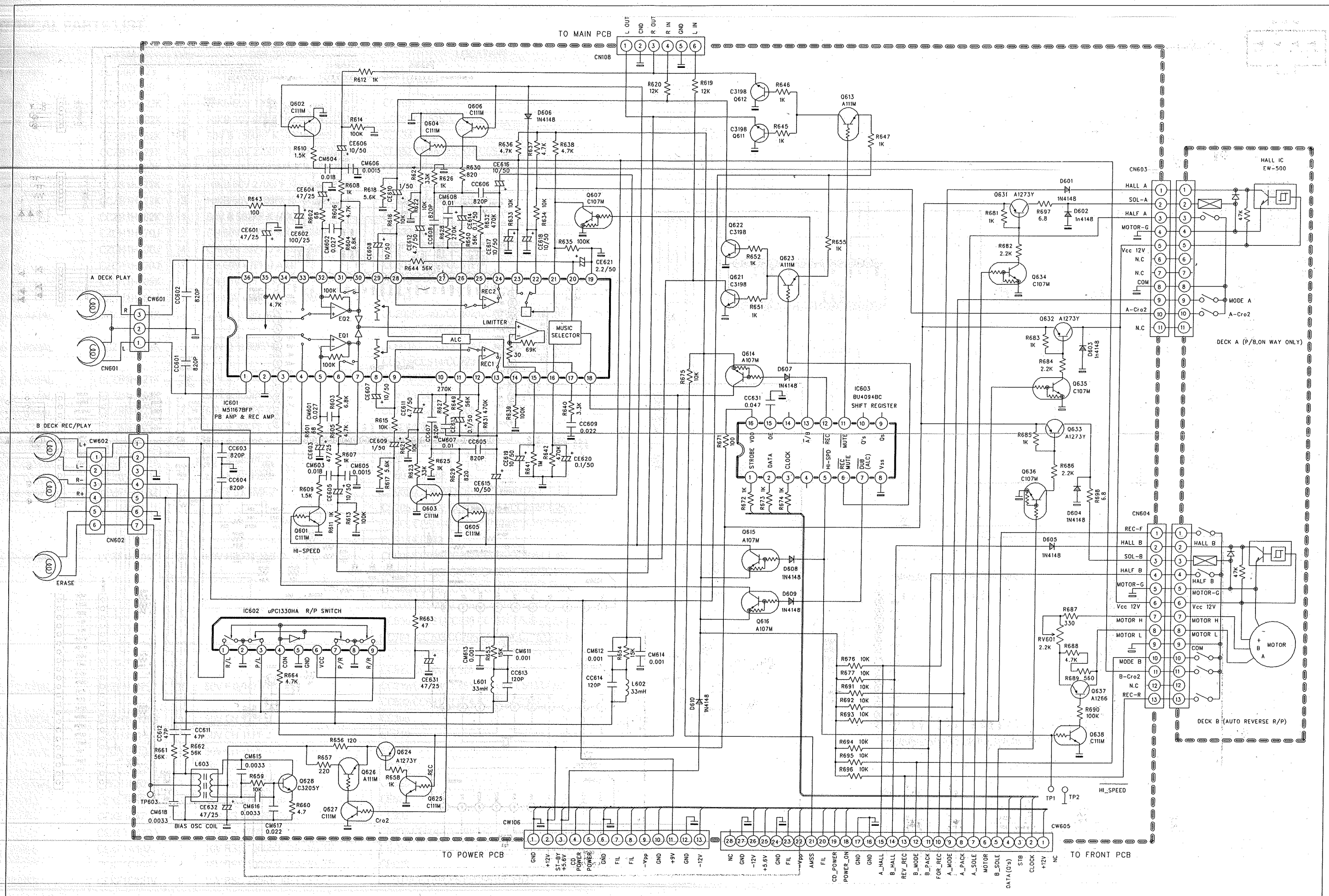




NAME \_\_\_\_\_

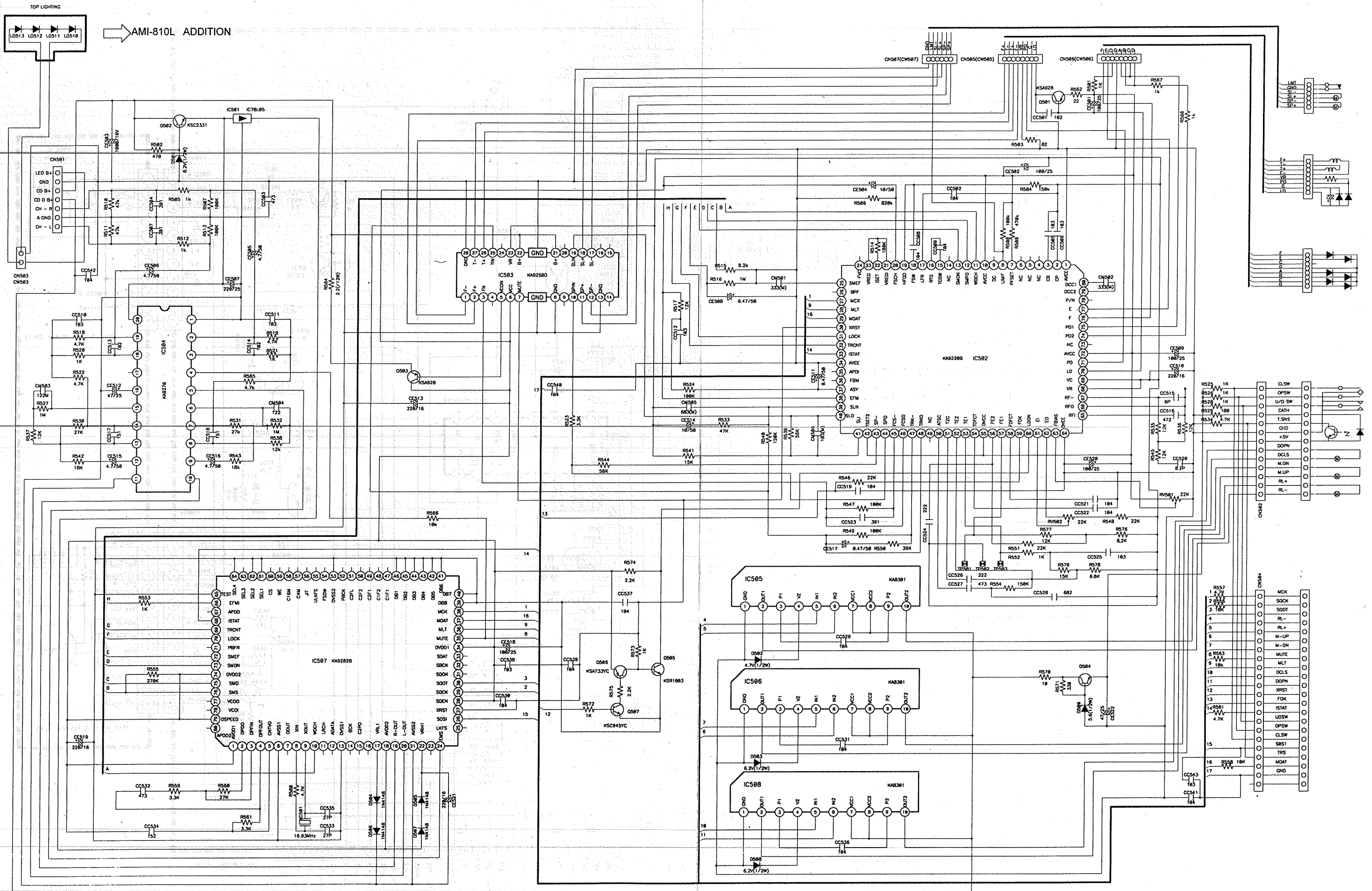




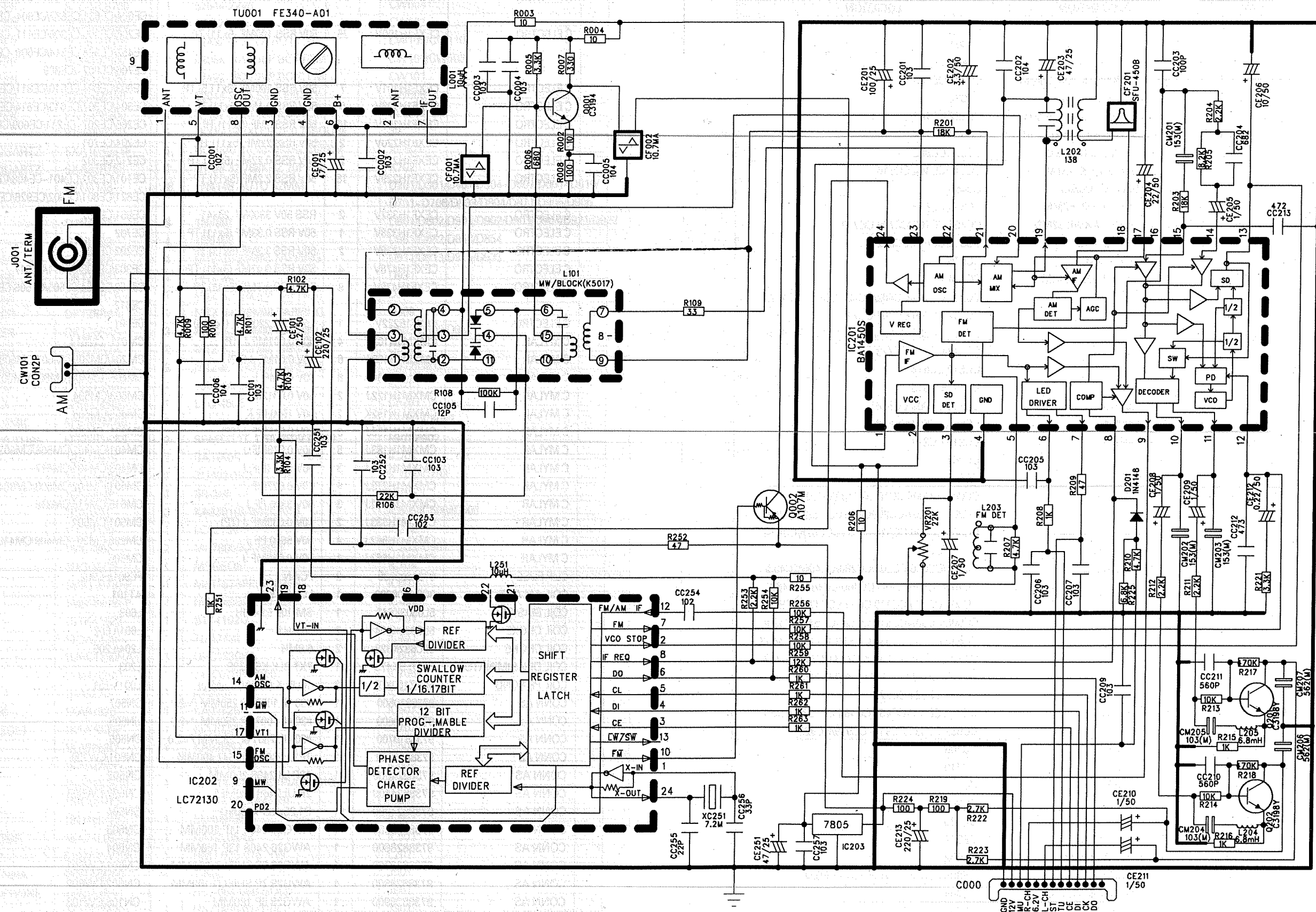




CD



# TUNER





## 9. ELECTRICAL PARTS LIST

### ELECTRICAL PARTS LIST

| NO. | ITEM         | ITEM No.   | Q'ty | DESCRIPTION                 | LOCATION                                                                                                                                                                                                                                                                       |
|-----|--------------|------------|------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | AM RF UNIT   | 5LR0000823 | 1    | RBW07VB-K5017               | L101                                                                                                                                                                                                                                                                           |
|     | ANT FM       | 9736806100 | 1    | 2.8M T-ANT                  | AT001                                                                                                                                                                                                                                                                          |
|     | C CERA       | CCKB1H122K | 1    | HIKB 50V 1200PF K           | CC461                                                                                                                                                                                                                                                                          |
|     | C CERA       | CCKB1H682K | 2    | HIKB 50V 6800PF K AXL 26MM  | CC204/CC528                                                                                                                                                                                                                                                                    |
|     | C CERA       | CCZB1H152K | 1    | 50V B 1500PF K (AXIAL)      | CC534                                                                                                                                                                                                                                                                          |
|     | C CERA       | CCZB1H222K | 4    | HIKB 50V 2200PF K AXL 52MM  | CC452/CC457/CC524/CC525                                                                                                                                                                                                                                                        |
|     | C CERA       | CCZB1H223K | 2    | HIKB 50V 0.022MF K AXL 52MM | CC609/CC722                                                                                                                                                                                                                                                                    |
|     | C CERA       | CCZB1H272K | 2    | HIKB 50V 2700PF K AXIAL     | CC801/CC802                                                                                                                                                                                                                                                                    |
|     | C CERA       | CCZB1H472K | 3    | HIKB 50V 4700PF K AXIAL     | CC213/CC464/CC516                                                                                                                                                                                                                                                              |
|     | C CERA       | CCZB1H562K | 1    | 50V B 562PF K (AXIAL)       | CC458                                                                                                                                                                                                                                                                          |
|     | C CERA       | CZCH1H270J | 2    | CH 50V 27PF J AXL 52MM      | CC533/CC535                                                                                                                                                                                                                                                                    |
|     | C CERA       | CZCH1H330J | 4    | CH 50V 33PF J AXIAL 52MM    | CC256/CC708/CC709/CC712                                                                                                                                                                                                                                                        |
|     | C CERA       | CZCH1H470J | 3    | CH 50V 47PF J AXL           | CC303/CC611/CC612                                                                                                                                                                                                                                                              |
|     | C CERA       | CZCH1H609K | 1    | CH 50V 6PF K AXL            | CC515                                                                                                                                                                                                                                                                          |
|     | C CERA       | CZCH1H680J | 1    | CH 50V 68PF J AXL 52MM      | CC714                                                                                                                                                                                                                                                                          |
|     | C CERA AXIAL | CCZB1H101K | 10   | 50V B 100PF K               | CC203/CC401/CC402/CC404/CC405/CC467/CC704/CC705/CC707/CC716                                                                                                                                                                                                                    |
|     | C CERA AXIAL | CCZB1H102K | 9    | 50V B 1000PF K              | CC001/CC253/CC254/CC301/CC302/CC501/CC513/CC514/CC723                                                                                                                                                                                                                          |
|     | C CERA AXIAL | CCZB1H121K | 2    | 50V B 120PF K               | CC613/CC614                                                                                                                                                                                                                                                                    |
|     | C CERA AXIAL | CCZB1H151K | 2    | 50V B 150PF K               | CC517/CC518                                                                                                                                                                                                                                                                    |
|     | C CERA AXIAL | CCZB1H221K | 3    | 50V B 220PF K               | CC718/CC805/CC806                                                                                                                                                                                                                                                              |
|     | C CERA AXIAL | CCZB1H391K | 3    | 50V B 390PF K               | CC504/CC507/CC523                                                                                                                                                                                                                                                              |
|     | C CERA AXIAL | CCZB1H561K | 2    | 50V B 560PF K               | CC210/CC211                                                                                                                                                                                                                                                                    |
|     | C CERA AXIAL | CCZB1H681K | 1    | 50V B 680PF K               | CC305                                                                                                                                                                                                                                                                          |
|     | C CERA AXIAL | CCZB1H821K | 8    | 50V B 820PF K               | CC601~CC608                                                                                                                                                                                                                                                                    |
|     | C CERA AXIAL | CCZF1H103Z | 22   | 50V F 0.01MF Z              | CC002~CC004/CC101/CC103/CC201/CC205~CC207/CC209/CC251/CC252/CC257/CC505/CC506/CC510~CC512/CC525/CC538/CC911/CC912                                                                                                                                                              |
|     | C CERA AXIAL | CCZF1H104Z | 50   | 50V HIKF 0.1MF Z            | CC005/CC006/CC202/CC260/CC406/CC453/CC455/CC456/CC459/CC460/CC462/CC463/CC465/CC466/CC470/CC471/CC472/CC502/CC508/CC509/CC519/CC521/CC522/CC529/CC530/CC531/CC536/CC537/CC539~CC5443/CC701~CC703/CC706/CC713/CC715/CC717/CC719~CC721/CC724/CC803/CC913/CC921/CC922/CC924/CC925 |
|     | C CERA AXIAL | CCZF1H473Z | 15   | 50V F 0.047MF Z             | CC212/CC403/CC451/CC454/CC503/CC527/CC532/CC631/CC914~CC919/CC923                                                                                                                                                                                                              |
|     | C CERA AXIAL | CZCH1H120J | 1    | 50V CH 12PF J               | CC105                                                                                                                                                                                                                                                                          |
|     | C CERA AXIAL | CZCH1H150J | 1    | 50V CH 15PF J               | CC710                                                                                                                                                                                                                                                                          |
|     | C CERA AXIAL | CZCH1H180J | 1    | 50V CH 18PF J               | CC711                                                                                                                                                                                                                                                                          |
|     | C CERA AXIAL | CZCH1H220J | 1    | 50V CH 22PF J               | CC255                                                                                                                                                                                                                                                                          |
|     | C CERA AXIAL | CZCH1H829K | 1    | 50V CH 8.2PF K              | CC520                                                                                                                                                                                                                                                                          |
|     | C ELECTRO    | CEXE1E470A | 1    | 25V RS 47MF 6.3x11          | CE522                                                                                                                                                                                                                                                                          |
|     | C ELECTRO    | CEXE1E471A | 1    | 25V RS 470MF 13x20          | CE902                                                                                                                                                                                                                                                                          |
|     | C ELECTRO    | CEXE1H470A | 5    | 50V RS 47MF 8x11.5          | CE805/CE806/CE813/CE923/CE924                                                                                                                                                                                                                                                  |
|     | C ELECTRO    | CEXF1A102V | 1    | 10V RSS 1000MF (10x16) TP   | CE704                                                                                                                                                                                                                                                                          |
|     | C ELECTRO    | CEXF1C102V | 1    | 16V RSS 1000MF (10x20) TP   | CE503                                                                                                                                                                                                                                                                          |
|     | C ELECTRO    | CEXF1C221V | 5    | 16V RSS 220MF (8x11.5) TP   | CE507/CE510/CE513/CE519/CE521                                                                                                                                                                                                                                                  |

| NO. | ITEM               | ITEM No.   | Q'ty | DESCRIPTION                | LOCATION                                                                                              |
|-----|--------------------|------------|------|----------------------------|-------------------------------------------------------------------------------------------------------|
|     | C ELECTRO          | CEXF1E101V | 9    | 25V RSS 100MF (6.3x11) TP  | CE201/CE456/CE501/CE502/CE509/CE518/CE520/CE602/CE705                                                 |
|     | C ELECTRO          | CEXF1E221V | 4    | 25V RSS 220MF (8x11.5) TP  | CE102/CE213/CE417/CE903                                                                               |
|     | C ELECTRO          | CEXF1E470V | 21   | 25V RSS 47MF (5x11) TP     | CE001/CE203/CE251/CE455/CE512/CE601/CE603/CE604/CE631/CE632/CE904~CE913/CE925                         |
|     | C ELECTRO          | CEXF1H100V | 25   | 50V RSS 100MF (5x11) TP    | CE206/CE305/CE306/CE411~CE414/CE418/CE451/CE452/CE504/CE514/CE605~CE608/CE615~CE619/CE706/CE807~CE809 |
|     | C ELECTRO          | CEXF1H101V | 7    | 50V RSS 100MF (8x11.5) TP  | CE803/CE804/CE810/CE811/CE815/CE921/CE922                                                             |
|     | C ELECTRO          | CEXF1H108V | 5    | 50V RSS 0.1MF (5x11) TP    | CE304/CE307/CE613/CE614/CE620                                                                         |
|     | C ELECTRO          | CEXF1H109V | 10   | 50V RSS 1MF (5x11) TP      | CE205/CE207~CE211/CE609/CE610/CE812/CE821                                                             |
|     | C ELECTRO          | CEXF1H220V | 2    | 50V RSS 22MF (5x11) TP     | CE204/CE701                                                                                           |
|     | C ELECTRO          | CEXF1H228V | 2    | 50V RSS 0.22MF (5x11) TP   | CE212/CE302                                                                                           |
|     | C ELECTRO          | CEXF1H229V | 18   | 50V RSS 2.2MF (5x11) TP    | CE101/CE301/CE401~CE408/CE415/CE416/CE457/CE621/CE801/CE802/CE926/CE927                               |
|     | C ELECTRO          | CEXF1H332V | 2    | RSS 50V 3300MF 26x41       | CE851/CE852                                                                                           |
|     | C ELECTRO          | CEXF1H338V | 1    | 50V RSS 0.33MF (5x11) TP   | CE702                                                                                                 |
|     | C ELECTRO          | CEXF1H339V | 2    | 50V RSS 3.3MF (5x11) TP    | CE202/CE703                                                                                           |
|     | C ELECTRO          | CEXF1H478V | 4    | 50V RSS 0.47MF (5x11) TP   | CE303/CE508/CE511/CE517                                                                               |
|     | C ELECTRO          | CEXF1H479V | 8    | 50V RSS 4.7MF (5x11) TP    | CE453/CE454/CE505/CE506/CE515/CE516/CE611/CE612                                                       |
|     | C ELECTRO          | CEYF1E222V | 1    | 25V RSS 2200MF (16x25)     | CE901                                                                                                 |
|     | C MYLAR            | CMXM1H102J | 4    | 50V 0.001MF J (TP)         | CM611~CM614                                                                                           |
|     | C MYLAR            | CMXM1H103J | 6    | 50V 0.01MF J (TP)          | CM204/CM205/CM607/CM608/CM901/CM902                                                                   |
|     | C MYLAR            | CMXM1H104J | 8    | 50V 0.1MF J                | CM405~CM408/CM801/CM802/CM805/CM903                                                                   |
|     | C MYLAR            | CMXM1H122J | 2    | 50V 0.0012MF J             | CM503/CM504                                                                                           |
|     | C MYLAR            | CMXM1H152K | 2    | 50V 1500 PF K              | CM605/CM606                                                                                           |
|     | C MYLAR            | CMXM1H153J | 3    | 50V 0.015MF J (TP)         | CM201~CM203                                                                                           |
|     | C MYLAR            | CMXM1H183J | 5    | 50V 0.018MF J              | CM401/CM402/CM506/CM603/CM604                                                                         |
|     | C MYLAR            | CMXM1H223J | 3    | 50V 0.022MF J              | CM403/CM404/CM617                                                                                     |
|     | C MYLAR            | CMXM1H273J | 4    | 50V 0.027MF J              | CM601/CM602/CM803/CM804                                                                               |
|     | C MYLAR            | CMXM1H332J | 3    | 50V 3300 PF J              | CM615/CM616/CM618                                                                                     |
|     | C MYLAR            | CMXM1H333J | 2    | 50V 0.033MF J (TP)         | CM501/CM502                                                                                           |
|     | C MYLAR            | CMXM1H562J | 4    | 50V 5600 PF J              | CM206/CM207/CM409/CM410                                                                               |
|     | C MYLAR            | CMXM1H683J | 1    | 50V 0.068MF J              | CM505                                                                                                 |
|     | CLIP FUSE          | 9734600700 | 2    | FC-5N                      | FC901/FC902                                                                                           |
|     | COIL AM ANT        | 9CD6806200 | 1    | LOOP TYPE                  | AT101                                                                                                 |
|     | COIL BIAS OSC      | 5L0503K643 | 1    | SM-10F 5.04MH              | L603                                                                                                  |
|     | COIL CHOKE         | 5LC333K804 | 2    | 33MH K                     | L601/L602                                                                                             |
|     | COIL CHOKE         | 5LC682K822 | 2    | 6.8MH                      | L204/L205                                                                                             |
|     | COIL DISCRIMINATOR | 5107FBK473 | 1    | 7X7 BLK KSZ-73S            | L203                                                                                                  |
|     | COIL PEAKING       | 5CPZ100K02 | 2    | 10UH K (AXIAL 3.5MM)       | L001/L251                                                                                             |
|     | CONN AS            | 9738810500 | 1    | #30 UL1007 6P 250MM P=2.0  | CN507                                                                                                 |
|     | CONN AS            | 9738810600 | 1    | #30 UL1007 8P 250MM P=2.0  | CN505                                                                                                 |
|     | CONN AS            | 9738810700 | 1    | #30 UL 2851 8P 250MM P=2.0 | CN506                                                                                                 |
|     | CONN AS            | 9738823900 | 1    | 7P UL2468+UL2547 400MM     | CN501/CW109                                                                                           |
|     | CONN AS            | 9738824000 | 1    | 13P UL2468 250MM           | CN502                                                                                                 |
|     | CONN AS            | 9738824100 | 1    | 2P UL2468 400MM            | CN503/CW503                                                                                           |
|     | CONN AS            | 9738824200 | 1    | P1.25x22Px100xD            | CN504                                                                                                 |
|     | CONN AS            | 9738828500 | 1    | AWG26 2468 11P 100MM       | CN603                                                                                                 |
|     | CONN AS            | 9738828600 | 1    | AWG26 2468 13P 100MM       | CN604                                                                                                 |
|     | CONN AS            | 9738828700 | 1    | AWG28 3P SHIELD 220MM      | CN601/CW601                                                                                           |
|     | CONN AS            | 9738828800 | 1    | AWG28 7P SHIELD 100MM      | CN602/CW602                                                                                           |
|     | CONN AS            | 9738828900 | 1    | AWG28 6P 180MM             | CN108/CW108                                                                                           |
|     | CONN AS            | 9738829000 | 1    | AWG22 1007 11P 300MM       | CN107/CW107                                                                                           |
|     | CONN AS            | 9738829100 | 1    | AWG24 1007 13P 120MM       | CN106/CW106                                                                                           |



| NO. | ITEM               | ITEM No.   | Q'ty | DESCRIPTION                | LOCATION                                                                                              |
|-----|--------------------|------------|------|----------------------------|-------------------------------------------------------------------------------------------------------|
|     | C ELECTRO          | CEXF1E101V | 9    | 25V RSS 100MF (6.3x11) TP  | CE201/CE456/CE501/CE502/CE509/CE518/CE520/CE602/CE705                                                 |
|     | C ELECTRO          | CEXF1E221V | 4    | 25V RSS 220MF (8x11.5) TP  | CE102/CE213/CE417/CE903                                                                               |
|     | C ELECTRO          | CEXF1E470V | 21   | 25V RSS 47MF (5x11) TP     | CE001/CE203/CE251/CE455/CE512/CE601/CE603/CE604/CE631/CE632/CE904~CE913/CE925                         |
|     | C ELECTRO          | CEXF1H100V | 25   | 50V RSS 100MF (5x11) TP    | CE206/CE305/CE306/CE411~CE414/CE418/CE451/CE452/CE504/CE514/CE605~CE608/CE615~CE619/CE706/CE807~CE809 |
|     | C ELECTRO          | CEXF1H101V | 7    | 50V RSS 100MF (8x11.5) TP  | CE803/CE804/CE810/CE811/CE815/CE921/CE922                                                             |
|     | C ELECTRO          | CEXF1H108V | 5    | 50V RSS 0.1MF (5x11) TP    | CE304/CE307/CE613/CE614/CE620                                                                         |
|     | C ELECTRO          | CEXF1H109V | 10   | 50V RSS 1MF (5x11) TP      | CE205/CE207~CE211/CE609/CE610/CE812/CE821                                                             |
|     | C ELECTRO          | CEXF1H220V | 2    | 50V RSS 22MF (5x11) TP     | CE204/CE701                                                                                           |
|     | C ELECTRO          | CEXF1H228V | 2    | 50V RSS 0.22MF (5x11) TP   | CE212/CE302                                                                                           |
|     | C ELECTRO          | CEXF1H229V | 18   | 50V RSS 2.2MF (5x11) TP    | CE101/CE301/CE401~CE408/CE415/CE416/CE457/CE621/CE801/CE802/CE926/CE927                               |
|     | C ELECTRO          | CEXF1H332V | 2    | RSS 50V 3300MF 26x41       | CE851/CE852                                                                                           |
|     | C ELECTRO          | CEXF1H338V | 1    | 50V RSS 0.33MF (5x11) TP   | CE702                                                                                                 |
|     | C ELECTRO          | CEXF1H339V | 2    | 50V RSS 3.3MF (5x11) TP    | CE202/CE703                                                                                           |
|     | C ELECTRO          | CEXF1H478V | 4    | 50V RSS 0.47MF (5x11) TP   | CE303/CE508/CE511/CE517                                                                               |
|     | C ELECTRO          | CEXF1H479V | 8    | 50V RSS 4.7MF (5x11) TP    | CE453/CE454/CE505/CE506/CE515/CE516/CE611/CE612                                                       |
|     | C ELECTRO          | CEYF1E222V | 1    | 25V RSS 2200MF (16x25)     | CE901                                                                                                 |
|     | C MYLAR            | CMXM1H102J | 4    | 50V 0.001MF J (TP)         | CM611~CM614                                                                                           |
|     | C MYLAR            | CMXM1H103J | 6    | 50V 0.01MF J (TP)          | CM204/CM205/CM607/CM608/CM901/CM902                                                                   |
|     | C MYLAR            | CMXM1H104J | 8    | 50V 0.1MF J                | CM405~CM408/CM801/CM802/CM805/CM903                                                                   |
|     | C MYLAR            | CMXM1H122J | 2    | 50V 0.0012MF J             | CM503/CM504                                                                                           |
|     | C MYLAR            | CMXM1H152K | 2    | 50V 1500 PF K              | CM605/CM606                                                                                           |
|     | C MYLAR            | CMXM1H153J | 3    | 50V 0.015MF J (TP)         | CM201~CM203                                                                                           |
|     | C MYLAR            | CMXM1H183J | 5    | 50V 0.018MF J              | CM401/CM402/CM506/CM603/CM604                                                                         |
|     | C MYLAR            | CMXM1H223J | 3    | 50V 0.022MF J              | CM403/CM404/CM617                                                                                     |
|     | C MYLAR            | CMXM1H273J | 4    | 50V 0.027MF J              | CM601/CM602/CM803/CM804                                                                               |
|     | C MYLAR            | CMXM1H332J | 3    | 50V 3300 PF J              | CM615/CM616/CM618                                                                                     |
|     | C MYLAR            | CMXM1H333J | 2    | 50V 0.033MF J (TP)         | CM501/CM502                                                                                           |
|     | C MYLAR            | CMXM1H562J | 4    | 50V 5600 PF J              | CM206/CM207/CM409/CM410                                                                               |
|     | C MYLAR            | CMXM1H683J | 1    | 50V 0.068MF J              | CM505                                                                                                 |
|     | CLIP FUSE          | 9734600700 | 2    | FC-5N                      | FC901/FC902                                                                                           |
|     | COIL AM ANT        | 9CD6806200 | 1    | LOOP TYPE                  | AT101                                                                                                 |
|     | COIL BIAS OSC      | 5L0503K643 | 1    | SM-10F 5.04MH              | L603                                                                                                  |
|     | COIL CHOKE         | 5LC333K804 | 2    | 33MH K                     | L601/L602                                                                                             |
|     | COIL CHOKE         | 5LC682K822 | 2    | 6.8MH                      | L204/L205                                                                                             |
|     | COIL DISCRIMINATOR | 5107FBK473 | 1    | 7X7 BLK KSZ-73S            | L203                                                                                                  |
|     | COIL PEAKING       | 5CPZ100K02 | 2    | 10UH K (AXIAL 3.5MM)       | L001/L251                                                                                             |
|     | CONN AS            | 9738810500 | 1    | #30 UL1007 6P 250MM P=2.0  | CN507                                                                                                 |
|     | CONN AS            | 9738810600 | 1    | #30 UL1007 8P 250MM P=2.0  | CN505                                                                                                 |
|     | CONN AS            | 9738810700 | 1    | #30 UL 2851 8P 250MM P=2.0 | CN506                                                                                                 |
|     | CONN AS            | 9738823900 | 1    | 7P UL2468+UL2547 400MM     | CN501/CW109                                                                                           |
|     | CONN AS            | 9738824000 | 1    | 13P UL2468 250MM           | CN502                                                                                                 |
|     | CONN AS            | 9738824100 | 1    | 2P UL2468 400MM            | CN503/CW503                                                                                           |
|     | CONN AS            | 9738824200 | 1    | P1.25x22Px100xD            | CN504                                                                                                 |
|     | CONN AS            | 9738828500 | 1    | AWG26 2468 11P 100MM       | CN603                                                                                                 |
|     | CONN AS            | 9738828600 | 1    | AWG26 2468 13P 100MM       | CN604                                                                                                 |
|     | CONN AS            | 9738828700 | 1    | AWG28 3P SHIELD 220MM      | CN601/CW601                                                                                           |
|     | CONN AS            | 9738828800 | 1    | AWG28 7P SHIELD 100MM      | CN602/CW602                                                                                           |
|     | CONN AS            | 9738828900 | 1    | AWG28 6P 180MM             | CN108/CW108                                                                                           |
|     | CONN AS            | 9738829000 | 1    | AWG22 1007 11P 300MM       | CN107/CW107                                                                                           |
|     | CONN AS            | 9738829100 | 1    | AWG24 1007 13P 120MM       | CN106/CW106                                                                                           |

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|-----|-----------------|------------|------|-----------------------------|-----------------------------------------------------------------------|
|     | CONN AS         | 9738829700 | 1    | FFT 28P 90MM P1.25          | CN101                                                                 |
|     | CONN AS         | 9738829800 | 1    | FFT 6P 220MM P1.25          | CN105                                                                 |
|     | CONN PIN        | 9736407800 | 2    | 53095-1010 10PIN ANGLE      | CN102/CN103                                                           |
|     | CONN WAFER      | 9CD6258700 | 1    | 52044-2245                  | CW504                                                                 |
|     | CONN WAFER      | 9CD6258800 | 1    | 2P S2B-XH-A                 | CW101                                                                 |
|     | CONN WAFER      | 9CD6259100 | 2    | 52492-0620 6P BOTTOM        | CW105/CW110                                                           |
|     | CONN WAFER      | 9736407900 | 2    | 52084-1010 10P BOTTOM       | CW102/CW103                                                           |
|     | CONN WAFER      | 9736408000 | 1    | 52492-2820 28P BOTTPM       | CW101                                                                 |
|     | CONN WAFER      | 9736408100 | 1    | 52044-2845 SIDE ENTRY       | CW605                                                                 |
|     | CONN WAFER      | 9736408200 | 1    | 52492-2220 22P BOTTOM       | CW104                                                                 |
|     | CORD AC         | 9736900200 | 1    | "KKP419C,KLCE-2F,0.75SQURE" | 30                                                                    |
|     | CRYSTAL QUARTZ  | 5XA16R934F | 1    | HC-18/U 16.9344MHZ 50PPM    | XC501                                                                 |
|     | CRYSTAL QUARTZ  | 5XA32R768- | 1    | DT-38 32.768KHZ 20PPM       | X702                                                                  |
|     | DIODE           | DZN4148--- | 28   | 1N4148 AUTO 52MM            | D201/D301/D401/D504~D507/D601~D610/D701~D706/D803/D804/D871/D905/D906 |
|     | DIODE           | D1N4001--- | 8    | 1N4001                      | D801/D802/D901/D902/D903/D904/D921/D922                               |
|     | DIODE           | D1N5402--- | 4    | 1N5402                      | D851/D852/D853/D854                                                   |
|     | DIODE ZENER     | DKTZ12A--- | 4    | MTZ-12 26MM TAPPING         | D911/D913/D915/D933                                                   |
|     | DIODE ZENER     | DKTZ30A--- | 1    | MTZ 30A                     | D931                                                                  |
|     | DIODE ZENER     | DKTZ4R7A-- | 1    | MTZ-4.7 26MM TAPPING        | D502                                                                  |
|     | DIODE ZENER     | DKTZ5R6A-- | 1    | MTZ-5.6 26MM TAPPING        | D509                                                                  |
|     | DIODE ZENER     | DKTZ6R2A-- | 3    | MTZ-6.2 26MM TAPPING        | D503/D508/D932                                                        |
|     | DIODE ZENER     | DKTZ8R2A-- | 1    | MTZ-8.2 26MM TAPPING        | D501                                                                  |
|     | DIODE ZENER     | DKTZ9R1A   | 2    | MTZ-9.1 26MM TAPPING        | D912/D914                                                             |
|     | DISPLAY VFD     | D15BT35GK- | 1    | 15BT-35GK                   | FD701                                                                 |
|     | FILTER CERA     | 5PSFU450B- | 1    | SFU-450B                    | CF201                                                                 |
|     | FILTER CERAMIC  | 5PE107MA5- | 2    | SFE 10.7MA5-A               | CF001/CF002                                                           |
|     | FUSE GLASS TUBE | 5FSGB1622L | 2    | SEMKO TL 1.6A 250V MF51     | F901/F902                                                             |
|     | IC              | 1BA1450S-- | 1    | BA1450S                     | IC201                                                                 |
|     | IC              | 1BU4094BCF | 2    | BU4094BCF(SOP16)            | IC702/IC703                                                           |
|     | IC              | 1DSR5HP--- | 1    | SR-5HP                      | IC705                                                                 |
|     | IC              | 1KA8301--- | 3    | KA8301(SAMSUNG)             | IC505/IC506/IC508                                                     |
|     | IC              | 1LC72130-- | 1    | LC72130                     | IC202                                                                 |
|     | IC              | 1MC7805--- | 2    | MC7805(KA7805)              | IC203/IC901                                                           |
|     | IC              | 1MSGEQ5--- | 1    | MSGEQ5                      | IC704                                                                 |
|     | IC              | 1M51167BFP | 1    | M51167BFP(SOP36S)           | IC601                                                                 |
|     | IC              | 1M65849BFP | 1    | M65849BFP(DIP32)            | IC451                                                                 |
|     | IC              | 1STK41622- | 1    | STK4162-2                   | IC801                                                                 |
|     | IC              | 1TDA7439-- | 1    | TDA7439                     | IC401                                                                 |
|     | IC              | 1UPC1330HA | 1    | UPC1330HA                   | IC602                                                                 |
|     | IC              | 124LC02BP- | 1    | 24LC02BP(DIP8)              | IC706                                                                 |
|     | IC AUDIO        | 1KA9270--- | 1    | KA9207                      | IC504                                                                 |
|     | IC AUDIO DS     | 1KA9282B-- | 1    | KA9282B                     | IC507                                                                 |
|     | IC AUDIO RESET  | 1K1A7029P- | 1    | KIA7029P                    | IC707                                                                 |
|     | IC CHIP         | 1KA9258D-- | 1    | KA9258D                     | IC503                                                                 |
|     | IC CHIP RF      | 1KA9220B-- | 1    | KA9220B                     | IC502                                                                 |
|     | IC MICOM        | 1M38184810 | 1    | M38184MA-298FP(AMI-810L)    | IC701                                                                 |
|     | IC OP AMP       | 1MC4558C-- | 1    | MC4558C(KA4558)             | IC301                                                                 |
|     | IC PORT         | 1BU4094BC- | 1    | BU4094BC                    | IC603                                                                 |
|     | IC REGULATOR    | 1KA78L05AZ | 1    | KA78L05AZ                   | IC501                                                                 |
|     | IFT AM TOP      | 5107AYW138 | 1    | HMJ-020-016 YW              | L202                                                                  |
|     | JACK ANTENNA    | 9736322200 | 1    | T-646                       | J001                                                                  |
|     | JACK HEADPHONE  | 9766319501 | 1    | HTJ-064-05B GOLD            | J801                                                                  |
|     | JACK MIC        | 9736322400 | 1    | HSJ1406-01-010              | J301                                                                  |
|     | JACK RCA        | 9CD6313700 | 2    | S-436P                      | J401/J871                                                             |
|     | JACK SPEAKER    | 9736320500 | 1    | CJ-9007-040                 | J802                                                                  |

| NO. | ITEM          | ITEM No.   | Q'ty | DESCRIPTION          | LOCATION                                                                                                                                                                                                                                                                                    |
|-----|---------------|------------|------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | LED           | DSLR332MC3 | 6    | SLR332MC3(GREEN)PI3  | LD719~LD724                                                                                                                                                                                                                                                                                 |
|     | LED           | DSLR332VC3 | 4    | SLR332EVC3(RDE)PI3   | LD705~LD708                                                                                                                                                                                                                                                                                 |
|     | LED           | DSLR56MC3  | 14   | SLR56MC3(GREEN)      | LD701~LD704/LD709~LD718                                                                                                                                                                                                                                                                     |
|     | LED           | DSLV31MC3  | 2    | SLV31MC3(GERRN)      | LD511/LD513                                                                                                                                                                                                                                                                                 |
|     | LED           | DSLV31VC3  | 2    | SLV31VC3(RED)        | LD510/LD512                                                                                                                                                                                                                                                                                 |
|     | PACK TUNER    | 9737612700 | 1    | FE340-A01            | TU001                                                                                                                                                                                                                                                                                       |
|     | PIN WRAPPING  | 9713550400 | 2    | 1.0x2.5x15           | TP901/TP902                                                                                                                                                                                                                                                                                 |
|     | PIN WRAPPING  | 9716404000 | 6    | MFZN1.1x1.1 PANASERT | TP501~TP503/TP601~TP603                                                                                                                                                                                                                                                                     |
|     | R CARBON FILM | RD-AZ100J  | 8    | 1/6 10 OHM J         | R002~R004/R206/R255/R768/R908/R921                                                                                                                                                                                                                                                          |
|     | R CARBON FILM | RD-AZ101J  | 15   | 1/6 100 OHM J        | R008/R010/R224/R309~R311/R529/R643/R671/<br>R749/R757/R769/R776/R779/R791                                                                                                                                                                                                                   |
|     | R CARBON FILM | RD-AZ102J  | 56   | 1/6 1K OHM J         | R208/R215/R216/R251/R260~R263/R301/R305/<br>R312/R501/R505/R512/R520/R521/R525/R526/<br>R528/R552/R553/R567/R568/R572/R573/R607/<br>R608/R611/R612/R625/R626/R645~R647/R651/<br>R652/R655/R658/R672~R674/R681/R683/R685/<br>R737/R740/R742/R743/R745/R747/R748/R772/<br>R773/R778/R801/R802 |
|     | R CARBON FILM | RD-AZ103J  | 41   | 1/6 10K OHM J        | R213/R214/R254/R256~R258/R302/R313/R556/<br>R558/R563/R566/R615/R616/R621/R622/R633/<br>R634/R659/R675~677/R691~R696/R701/R705/<br>R735/R736/R738/R741/R746/R754~R756/R790/<br>R909/R923                                                                                                    |
|     | R CARBON FILM | RD-AZ104J  | 22   | 1/6 100K OHM J       | R108/R303/R507/R508/R513/R524/R547/R549/<br>R613/R614/R635/R639/R690/R770/R782~R789                                                                                                                                                                                                         |
|     | R CARBON FILM | RD-AZ105J  | 4    | 1/6 1M OHM J         | R516/R527/R532/R641                                                                                                                                                                                                                                                                         |
|     | R CARBON FILM | RD-AZ106J  | 1    | 1/6 10M OHM J        | R780                                                                                                                                                                                                                                                                                        |
|     | R CARBON FILM | RD-AZ109J  | 2    | 1/6 1 OHM J          | R939/R940                                                                                                                                                                                                                                                                                   |
|     | R CARBON FILM | RD-AZ121J  | 1    | 1/6 120 OHM J        | R656                                                                                                                                                                                                                                                                                        |
|     | R CARBON FILM | RD-AZ123J  | 10   | 1/6 12K OHM J        | R259/R517/R535~R538/R545/R577/R619/R620                                                                                                                                                                                                                                                     |
|     | R CARBON FILM | RD-AZ124J  | 1    | 1/6 120K OHM J       | R540                                                                                                                                                                                                                                                                                        |
|     | R CARBON FILM | RD-AZ151J  | 3    | 1/6 150 OHM J        | R710/R716/R726                                                                                                                                                                                                                                                                              |
|     | R CARBON FILM | RD-AZ152J  | 10   | 1/6 1.5K OHM J       | R609/R610/R709/R714/R715/R722/R725/R732/<br>R744/R795                                                                                                                                                                                                                                       |
|     | R CARBON FILM | RD-AZ153J  | 6    | 1/6 15K OHM J        | R403/R404/R541/R579/R653/R654                                                                                                                                                                                                                                                               |
|     | R CARBON FILM | RD-AZ154J  | 2    | 1/6 150K OHM J       | R504/R554                                                                                                                                                                                                                                                                                   |
|     | R CARBON FILM | RD-AZ183J  | 4    | 1/6 18K OHM J        | R201/R203/R542/R543                                                                                                                                                                                                                                                                         |
|     | R CARBON FILM | RD-AZ184J  | 1    | 1/6 180K OHM J       | R514                                                                                                                                                                                                                                                                                        |
|     | R CARBON FILM | RD-AZ220J  | 1    | 1/6 22 OHM J         | R562                                                                                                                                                                                                                                                                                        |
|     | R CARBON FILM | RD-AZ221J  | 7    | 1/6 220 OHM J        | R657/R711/R717/R727/R906/R933/R934                                                                                                                                                                                                                                                          |
|     | R CARBON FILM | RD-AZ222J  | 11   | 1/6 2.2K OHM J       | R204/R211/R212/R253~R575/R682/R684/R686/<br>R902/R905                                                                                                                                                                                                                                       |
|     | R CARBON FILM | RD-AZ223J  | 6    | 1/6 22K OHM J        | R106/R401/R402/R546/R548/R551                                                                                                                                                                                                                                                               |
|     | R CARBON FILM | RD-AZ224J  | 1    | 1/6 220K OHM J       | R771                                                                                                                                                                                                                                                                                        |
|     | R CARBON FILM | RD-AZ271J  | 4    | 1/6 270 OHM J        | R758/R761                                                                                                                                                                                                                                                                                   |
|     | R CARBON FILM | RD-AZ272J  | 2    | 1/6 2.7K OHM J       | R222/R223                                                                                                                                                                                                                                                                                   |
|     | R CARBON FILM | RD-AZ273J  | 3    | 1/6 27K OHM J        | R530/R531/R560                                                                                                                                                                                                                                                                              |
|     | R CARBON FILM | RD-AZ274J  | 3    | 1/6 270K OHM J       | R555/R627/R628                                                                                                                                                                                                                                                                              |
|     | R CARBON FILM | RD-AZ330J  | 1    | 1/6 33 OHM J         | R109                                                                                                                                                                                                                                                                                        |
|     | R CARBON FILM | RD-AZ331J  | 6    | 1/6 330 OHM J        | R007/R571/R687/R712/R718/R728                                                                                                                                                                                                                                                               |
|     | R CARBON FILM | RD-AZ332J  | 10   | 1/6 3.3K OHM J       | R005/R104/R523/R559/R561/R640/R723/R733/<br>R796/R922                                                                                                                                                                                                                                       |
|     | R CARBON FILM | RD-AZ333J  | 2    | 1/6 33K OHM J        | R623/R624                                                                                                                                                                                                                                                                                   |
|     | R CARBON FILM | RD-AZ334J  | 1    | 1/6 330K OHM J       | R781                                                                                                                                                                                                                                                                                        |
|     | R CARBON FILM | RD-AZ391J  | 6    | 1/6 390 OHM J        | R750~R753/R901/R910                                                                                                                                                                                                                                                                         |
|     | R CARBON FILM | RD-AZ393J  | 2    | 1/6 39K OHM J        | R304/R550                                                                                                                                                                                                                                                                                   |

| NO. | ITEM          | ITEM No.   | Q'ty | DESCRIPTION               | LOCATION                                                                                                              |
|-----|---------------|------------|------|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
|     | R CARBON FILM | RD-AZ470J  | 4    | 1/6 47 OHM J              | R209/R252/R663/R911                                                                                                   |
|     | R CARBON FILM | RD-AZ471J  | 9    | 1/6 470 OHM J             | R502/R719/R729/R807/R808/R904/R907/R936                                                                               |
|     | R CARBON FILM | RD-AZ472J  | 24   | 1/6 4.7K OHM J            | R009/R101~R103/R207/R210/R314/R518/R519/R522/<br>R534/R557/R565/R580/R581/R605/R606/R636~R638/<br>R664/R688/R702/R774 |
|     | R CARBON FILM | RD-AZ473J  | 9    | 1/6 47K OHM J             | R315/R510/R511/R533/R703/R704/R706~R708                                                                               |
|     | R CARBON FILM | RD-AZ474J  | 6    | 1/6 470K OHM J            | R217/R218/R509/R631/R632/R642                                                                                         |
|     | R CARBON FILM | RD-AZ479J  | 1    | 1/6 4.7 OHM J             | R660                                                                                                                  |
|     | R CARBON FILM | RD-AZ561J  | 1    | 1/6 560 OHM J             | R689                                                                                                                  |
|     | R CARBON FILM | RD-AZ562J  | 5    | 1/6 5.6K OHM J            | R316/R617/R618/R713/R777                                                                                              |
|     | R CARBON FILM | RD-AZ563J  | 12   | 1/6 56 OHM J              | R306/R539/R544/R644/R649/R650/R661/R662/<br>R803~R806                                                                 |
|     | R CARBON FILM | RD-AZ680J  | 2    | 1/6 68 OHM J              | R601/R602                                                                                                             |
|     | R CARBON FILM | RD-AZ681J  | 13   | 1/6 680 OHM J             | R006/R720/R730/R762~R767/R793/R797~R799                                                                               |
|     | R CARBON FILM | RD-AZ682J  | 6    | 1/6 6.8K OHM J            | R225/R578/R603/R604/R724/R734                                                                                         |
|     | R CARBON FILM | RD-AZ689J  | 2    | 1/6 6.8 OHM J             | R697/R698                                                                                                             |
|     | R CARBON FILM | RD-AZ820J  | 1    | 1/6 82 OHM J              | R503                                                                                                                  |
|     | R CARBON FILM | RD-AZ821J  | 6    | 1/6 820 OHM J             | R629/R630/R721/R731/R794/R903                                                                                         |
|     | R CARBON FILM | RD-AZ822J  | 3    | 1/6 8.2K OHM J            | R205/R515/R576                                                                                                        |
|     | R CARBON FILM | RD-AZ824J  | 1    | 1/6 820 OHM J             | R506                                                                                                                  |
|     | R CARBON FILM | RD-2Y229J  | 1    | 1/2 2.2 OHM J             | R564                                                                                                                  |
|     | R CARBON FILM | RD-4Z100J  | 2    | 1/4 10 OHM J              | R570/R871                                                                                                             |
|     | R CARBON FILM | RD-4Z101J  | 5    | 1/4 100 OHM J             | R219/R436/R437/R815/R820                                                                                              |
|     | R CARBON FILM | RD-4Z102J  | 12   | 1/4 1K OHM J              | R409/R410/R423/R424/R431/R432/R451/R452/R457/<br>R834/R851/R852                                                       |
|     | R CARBON FILM | RD-4Z103J  | 5    | 1/4 10K OHM J             | R459/R461/R462/R860/R872                                                                                              |
|     | R CARBON FILM | RD-4Z104J  | 11   | 1/4 100K OHM J            | R421/R422/R425/R426/R433/R434/R439/R440/R453/<br>R454/R460                                                            |
|     | R CARBON FILM | RD-4Z124J  | 1    | 1/4 10 OHM J              | R841                                                                                                                  |
|     | R CARBON FILM | RD-4Z153J  | 2    | 1/4 15K OHM J             | R411/R412                                                                                                             |
|     | R CARBON FILM | RD-4Z182J  | 2    | 1/4 1.8K OHM J            | R831/R832                                                                                                             |
|     | R CARBON FILM | RD-4Z221J  | 2    | 1/4 220 OHM J             | R455/R456                                                                                                             |
|     | R CARBON FILM | RD-4Z222J  | 10   | 1/4 2.2K OHM J            | R405~R810/R816~R819                                                                                                   |
|     | R CARBON FILM | RD-4Z223J  | 1    | 1/4 22K OHM J             | R458                                                                                                                  |
|     | R CARBON FILM | RD-4Z272J  | 2    | 1/4 2.7K OHM J            | R427/R428                                                                                                             |
|     | R CARBON FILM | RD-4Z331J  | 4    | 1/4 330 OHM J             | R835~R838                                                                                                             |
|     | R CARBON FILM | RD-4Z332J  | 2    | 1/4 3.3K OHM J            | R221/R833                                                                                                             |
|     | R CARBON FILM | RD-4Z333J  | 2    | 1/4 33K OHM J             | R413/R414                                                                                                             |
|     | R CARBON FILM | RD-4Z392J  | 2    | 1/4 3.9K OHM J            | R415/R416                                                                                                             |
|     | R CARBON FILM | RD-4Z393J  | 3    | 1/4 39K OHM J             | R829/R830/R843                                                                                                        |
|     | R CARBON FILM | RD-4Z472J  | 8    | 1/4 4.7K OHM J            | RR811~R814/R844~R847                                                                                                  |
|     | R CARBON FILM | RD-4Z562J  | 2    | 1/4 5.6K OHM J            | R429/R430                                                                                                             |
|     | R CARBON FILM | RD-4Z683J  | 1    | 1/4 68K OHM J             | R842                                                                                                                  |
|     | R CARBON FILM | RD-4Z689J  | 4    | 1/4 6.8 OHM J             | R825~R828                                                                                                             |
|     | R CARBON FILM | RD-4Z821J  | 2    | 1/4 820 OHM J             | R823/R824                                                                                                             |
|     | R CEMENT      | RX02L228J  | 2    | 2W 0.22 OHM J             | R821/R822                                                                                                             |
|     | R FUSIBLE     | RF01F4780J | 2    | 0.470HM 1W                | RF901/RF902                                                                                                           |
|     | R SEMI FIXED  | RV1417222  | 1    | 1/10 2.2K OHM B V6EK-PV1S | RV601                                                                                                                 |
|     | R SEMI FIXED  | RV6417223  | 3    | VM6CK-PV(1S) B 22K OHM    | RV201/RV501/RV502                                                                                                     |
|     | RESONATOR     | 5PCSABMTZ  | 1    | "CSA8MTZ, 8MHZ"           | X701                                                                                                                  |
|     | SW ENCODER    | 5SH162401  | 1    | EC16B24204 24P W/DETENT   | VR702                                                                                                                 |
|     | SW RELAY      | 5SC0101362 | 1    | HR-RC112T2 12V 2A         | RY871                                                                                                                 |
|     | SW RELAY      | 5SC0201103 | 1    | HR-CR323 2C-1P DC12V      | RY901                                                                                                                 |
|     | SW TACT       | 5S50101001 | 29   | KPT-1105A 1C-1P           | SW701~SW729                                                                                                           |
|     | TR            | TKRA107M-- | 5    | KRA107M(KSR2006)          | Q002/Q614~Q616/Q813                                                                                                   |
|     | TR            | TKRA111M-- | 8    | KRA111-M TAPPING(KSR2010) | Q613/Q623/Q626/Q705~Q708/Q710                                                                                         |



| NO. | ITEM        | ITEM No.   | Q'ty | DESCRIPTION               | LOCATION                                                             |
|-----|-------------|------------|------|---------------------------|----------------------------------------------------------------------|
|     | TR          | TKRC107M-- | 6    | KRC107-M TAPPING(KSR1006) | Q607/Q634~Q636/Q904/Q909                                             |
|     | TR          | TKRC111M-- | 13   | KRC111M (KSR1010)         | Q601~Q606/Q625/Q627/Q638/Q702~Q704/Q711                              |
|     | TR          | TKSA733YC- | 1    | KSA 733Y-C                | Q506                                                                 |
|     | TR          | TKSA928AY- | 2    | KSA928A-Y                 | Q501/Q503                                                            |
|     | TR          | TKSC2331Y- | 1    | KSC2331Y                  | Q502                                                                 |
|     | TR          | TKTD2058Y- | 5    | KTD 2058-Y                | Q901/Q903/Q905/Q907/Q908                                             |
|     | TR          | TZSC945YC- | 1    | KSC945YC                  | Q507                                                                 |
|     | TR          | TZSR1003-- | 1    | KSR1003(AUTO)             | Q505                                                                 |
|     | TR          | TZTA1266Y- | 3    | KTA1266Y-(AUTO)(1015Y)    | Q637/Q902/Q906                                                       |
|     | TR          | TZTA1273Y- | 5    | KTA1273Y(966Y)            | Q624/Q631~Q633/Q923                                                  |
|     | TR          | TZTA1274Y- | 4    | KTA1274Y-                 | Q801/Q803/Q804/Q921                                                  |
|     | TR          | TZTC3194Y- | 2    | KTC3194Y                  | Q001/Q709                                                            |
|     | TR          | TZTC3198Y- | 14   | KTC3198Y-(1815Y) (AUTO)   | Q201/Q202/Q301/Q302/Q504/Q611/Q612/Q622/<br>Q701/Q811/Q812/Q871/Q910 |
|     | TR          | TZTC3205Y- | 1    | KTC3205Y (2236Y)          | Q628                                                                 |
|     | TR          | TZTC3227Y- | 1    | KTC3227 (C1627A) (AUTO)   | Q802                                                                 |
|     | TRANS POWER | 5TP8074734 | 1    | E174 230V/50HZ            | T901                                                                 |
|     | VR          | 5V1104726B | 1    | RK11K113030B 100KB        | VR301                                                                |