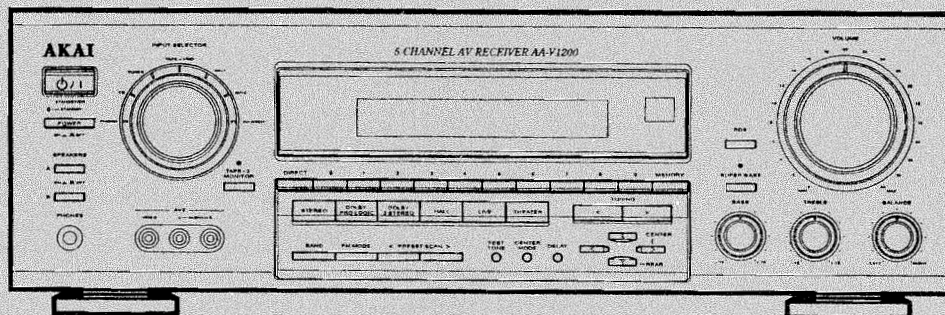


AKAI SERVICE MANUAL



5 CHANNEL AV RECEIVER

SPECIFICATIONS

MODEL AA-V1200

| AMPLIFIER | TUNER |
|--|--|
| <p>1 When SURROUND is "OFF" Sensitivity and impedance PHONO : 2.8mV/47kΩ CD, TAPE, AV 1/2 : 200mV/47kΩ Frequency Response PHONO(RIAA STANDARD CURVE) : 50Hz~15kHz(± 1dB) CD, TAPE, AV 1/2 : 10Hz~60kHz S/N Ratio PHONO(IHF-A) : 65dB CD, TAPE, AV 1/2(IHF-A) : 90dB Power Output 130W+130W (at 1kHz, 8ohm, THD 0.05%) Tone control Treble : ± 10dB (10kHz) Bass : ± 10dB (100Hz)</p> <p>2 When SURROUND is "ON" (4 ch surround mode) Power Output (at 1ch Drived) Front : 100W+100W (1kHz, 0.1% THD, 8ohm) Rear : 100W+100W (1kHz, 0.5% THD, 8ohm)</p> <p>3 When Dolby Pro Logic is "ON"/ DVD IN Power Output (at 1ch Drived) Front : 100W+100W (1kHz, 0.1% THD, 8ohm) Center : 100W (1kHz, 0.1% THD, 8ohm) Rear : 100W+100W (1kHz, 0.5% THD, 8ohm)</p> | <p>1 FM SECTION Frequency Range : 87.50MHz to 108.00MHz (50kHz step) Sensitivity (S/N 30dB) : 3.0μV Total Harmonic Distortion MONO : 0.3% STEREO : 0.5% Signal to Noise Ratio MONO : 70dB STEREO : 65dB Frequency Response : 20Hz~15kHz Image Rejection : 60dB Stereo Separation (1kHz) : 30dB</p> <p>2 MW SECTION Frequency Range : 522kHz to 1620kHz (9kHz step) Sensitivity (S/N 20dB) : 55dB Total Harmonic Distortion : 1.5% Signal to Noise Ratio : 40dB Image Rejection : 35dB</p> <p>3 LW SECTION Frequency Range : 146kHz ~ 290kHz (1kHz step) Sensitivity (S/N 20dB) : 60dB</p> |
| GENERAL | Standard accessories |
| Power consumption : 400W (At 1/8 POWER 6% OVER VOLTAGE) Power supply : AC 230V, 50Hz Dimension (W× H× D) : 430× 142× 355mm Weight : 10.1kg (net) | Remote control unit..... 1 Operator's manual 1 |

* For improvement purposes, specifications and design are subject to change without notice.

CONTENTS

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|------------------------------------|----|
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| DISASSEMBLY | 4 |
| PRINCIPAL PARTS LOCATION | 5 |
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SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

- Parts identifiable by the \triangle (*) symbol parts are critical for safety. Replace only with parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specific replacements.
Examples :RF converters, tuner units, antenna selectswitches, RF cables, noise blocking capacitors, noise blocking filters, etc.
- Use specified internal wiring. Note especially :
 - Wires covered with PVC tubing
 - Double insulated wires
 - High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - Insulation Tape
 - PVC tubing
 - Spacers(insulating barriers)
 - Insulation sheets for transistors
 - Plastic screws for fixing micro switches
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
- Check that replaced wires do not contact sharp edged or pointed parts.
- Also check areas surrounding repaired locations.
- Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

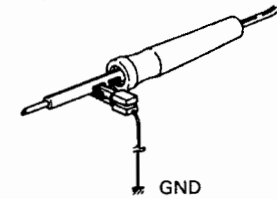
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 μ F capacitor, under the unit's normal working conditions.

The leakage-current should be less than 0.5mA rms AC. The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2M Ohms.

PRECAUTIONS IN REPAIRING

When repairing or adjusting the unit, please note the following points.

- Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
- When the base is removed for repair adjustment, make sure that there are no metal objects in the narrow gap between the P. C. board or the mecha parts and the base
- The Micro-Computer and the CD signal processing ICs can be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration.



- Do not loosen any screws in the pick-up block. When handling the pick-up block, please refer to the points to NOTE when replacing the pick-up block.
- Keep safety for hazardous invisible Laser Radiation. DO NOT watch the Laser Beam (Objective lens) directly.
- Models for some countries, laser warning labels are affixed on the unit and inside of the unit, as shown below. Read it carefully for your safety, when repairing or adjusting the unit.

INFORMATION

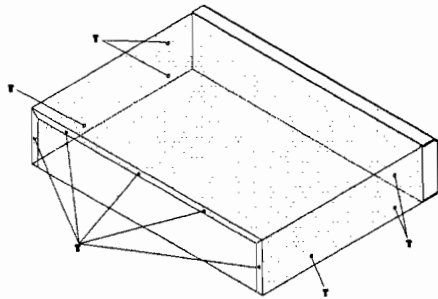
SYMBOLS FOR PRIMARY DESTINATION

Primary destination of units are indicated with the following alphabet.

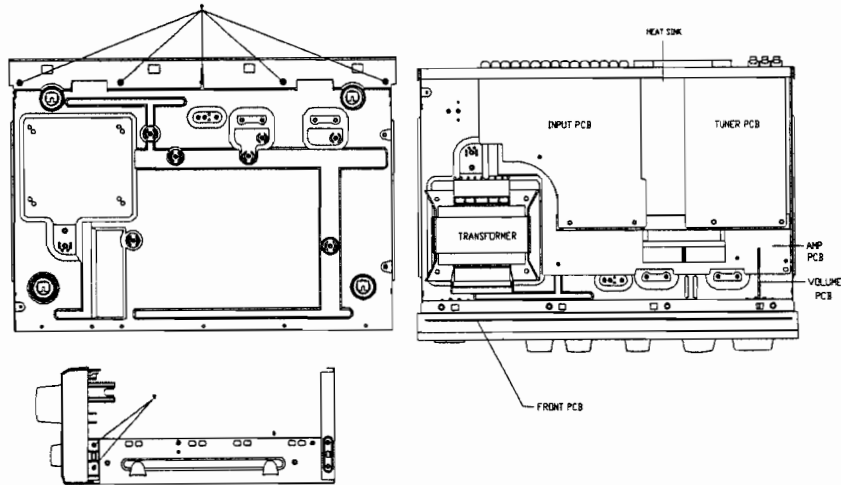
| Symbols | Principal Destinations |
|---------|------------------------|
| B | UK |
| E | Europe (except UK) |
| S | Australia |
| U | Universal Area |
| Y* | Custom version |

DISASSEMBLY

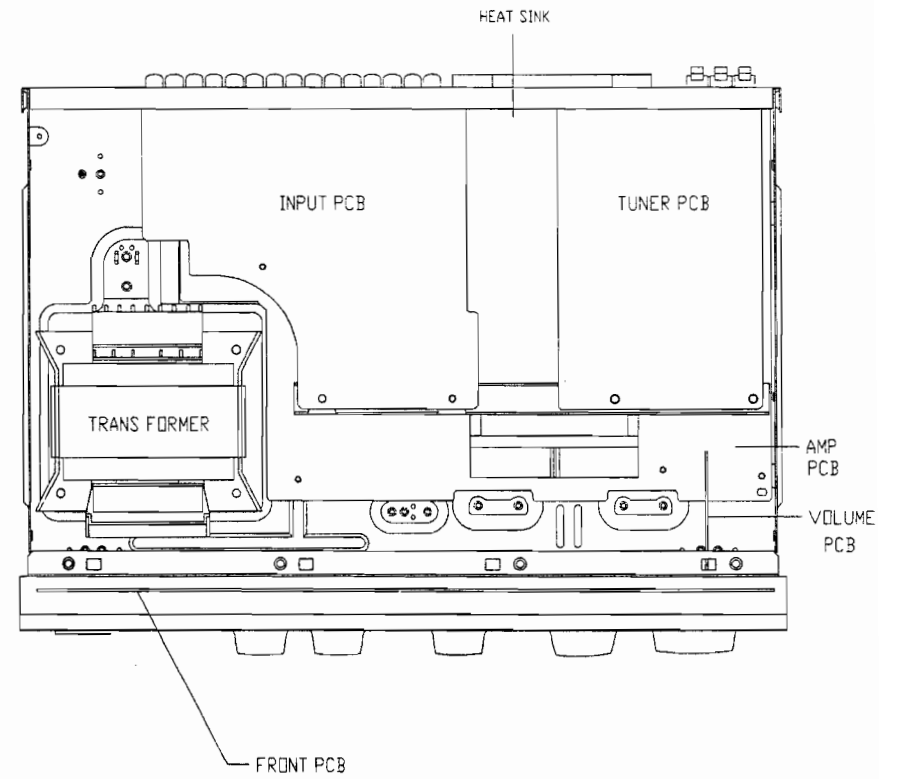
1) REMOVAL OF TOP COVER



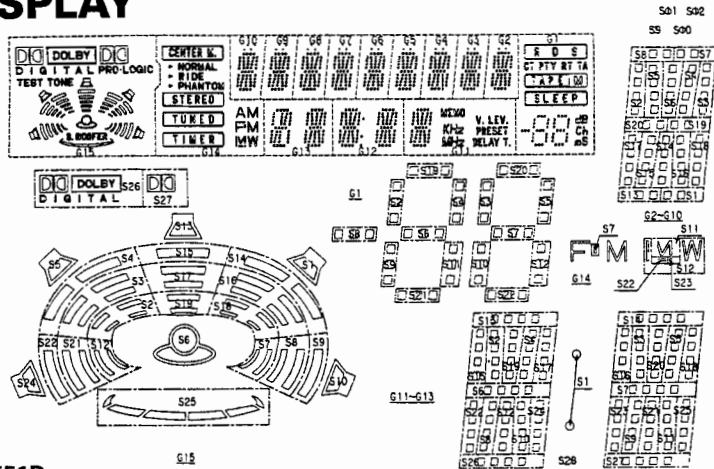
2) REMOVAL OF FRONT PANEL



PRINCIPAL PARTS LOCATION



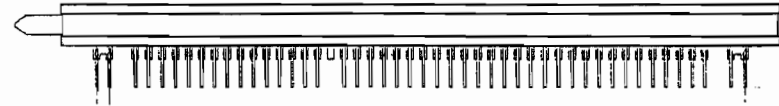
FIP DISPLAY



TYPE :CM1551D
ANODE & GRUD ASSIGNMENT

| | G1 | G2-G10 | G11 | G12 | G13 | G14 | G15 |
|-----|--------|--------|-----------|-----|-----|-----------|------------|
| S1 | RDS | S1 | | S1 | | STEREO | S1 |
| S2 | S2 | S2 | S2 | S2 | | NORMAL | S2 |
| S3 | S3 | S3 | | S3 | S3 | | S3 |
| S4 | S4 | S4 | S4 | S4 | S4 | (NORMAL) | S4 |
| S5 | S5 | S5 | KHz | S5 | S5 | | S5 |
| S6 | S6 | S6 | S6 | S6 | S6 | FM | S6 |
| S7 | S7 | S7 | DELAY T | S7 | S7 | S7 | S7 |
| S8 | S8 | S8 | S8 | S8 | S8 | | S8 |
| S9 | S9 | S9 | MHZ | S9 | S9 | CENTER M. | S9 |
| S10 | S10 | S10 | S10 | S10 | | TIMER | S10 |
| S11 | S11 | S11 | | S11 | S11 | S11 | TEST TONE |
| S12 | S12 | S12 | S12 | S12 | S12 | S12 | S12 |
| S13 | CT | S13 | S13 | S13 | S13 | PHANTOM | S13 |
| S14 | PTY | S14 | MEMO | S14 | S14 | | S14 |
| S15 | RT | S15 | S15 | S15 | S15 | (PHANTOM) | S15 |
| S16 | TA | S16 | V. (LEV.) | S16 | S16 | AM | S16 |
| S17 | TAPE M | S17 | S17 | S17 | S17 | WIDE | S17 |
| S18 | SLEEP | S18 | (V.) LEV. | S18 | S18 | | S18 |
| S19 | S19 | S19 | S19 | S19 | S19 | (WIDE) | S19 |
| S20 | S20 | S20 | PRESET | S20 | S20 | TUNED | PRO. LOGIC |
| S21 | S21 | | | S21 | S21 | | S21 |
| S22 | S22 | | S22 | S22 | S22 | S22 | S22 |
| S23 | ms | | | S23 | S23 | S23 | S. WOOFER |
| S24 | ch | | S24 | S24 | S24 | | S24 |
| S25 | | | S25 | S25 | S25 | | S25 |
| S26 | | | S26 | S26 | S26 | | S26 |
| S27 | | | S27 | S27 | S27 | | S27 |
| S28 | | | S28 | S28 | | | |

PIN CONNECTION



PIN ASSIGNMENT

| Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| Assignment | F1 | F1 | NP | G15 | G14 | G13 | G12 | G11 | G10 | G9 | G8 | G7 | G6 | G5 | G4 |

| Pin No. | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Assignment | G3 | G2 | G1 | NL | S28 | S27 | S26 | S25 | S24 | S23 | S22 | S21 | S20 | S19 | S18 |

| Pin No. | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| Assignment | S17 | S16 | S15 | S14 | S13 | S12 | S11 | S10 | S9 | S8 | S7 | S6 | S5 | S4 | S3 |

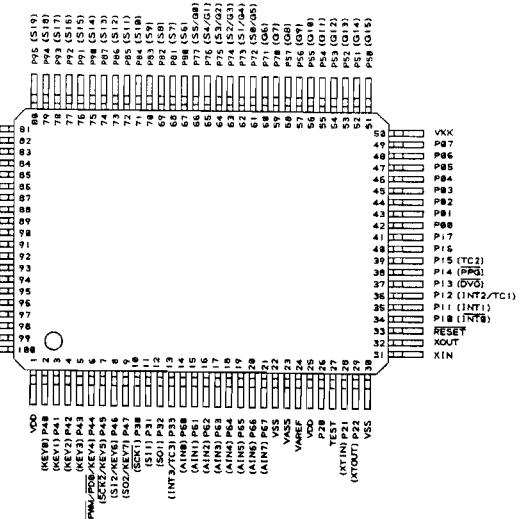
| Pin No. | 46 | 47 | 48 | 49 | 50 |
|------------|----|----|----|----|----|
| Assignment | S2 | S1 | NP | F2 | F2 |

IC PIN FUNCTION (IC :ANAM 1228AT)

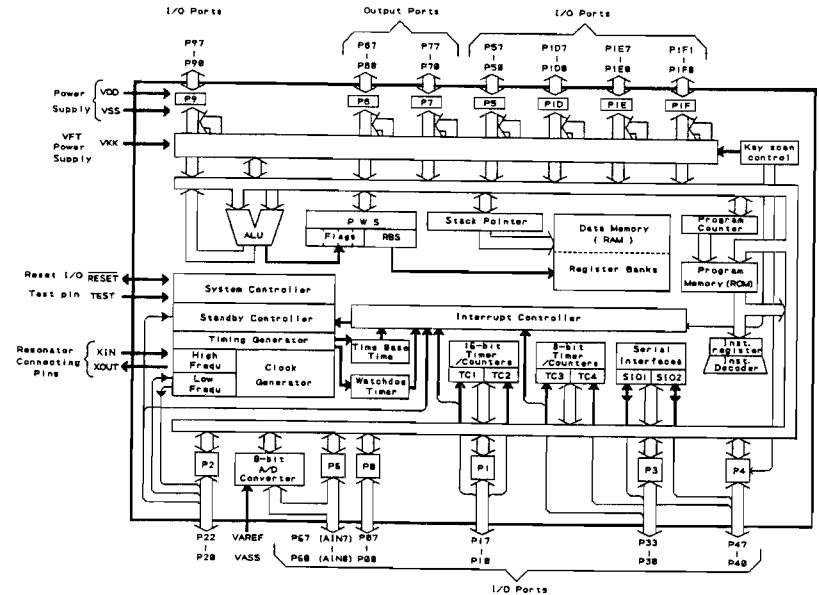
| NO. | NAME | I/O | DESCRIPTION |
|-------------|-------------------|-----|---|
| 1, 25 | VDD | - | POWER SUPPLY (+5V) |
| 2 | CLOCK | O | NJU 7313 AND NJW1103 CONTROL PORT |
| 3 | DATA | O | NJU 7313 AND NJW1103 CONTROL PORT |
| 4 | REQUST | O | NJW1103 CONTROL PORT |
| 5 | STROBE1 | O | NJU7313 CONTROL PORT |
| 6 | POWER ON/OFF | O | POWER ON/OFF CONTROL OUTPUT |
| 7 | CE | O | |
| 8 | CLOCK | O | PLL IC (LM 7001) CONTROL OUTPUT |
| 9 | DATA | O | |
| 10 | FM(L) | | WHEN "FM" IS "L" |
| 11 | MONO | | MONO CONTROL OUTPUT |
| 12 | DATA | O | RDS IC (TDA 7330B) CONTROL PORT |
| 13 | CLOCK | O | |
| 14 | STEREO IN | I | STEREO IN CONTROL INPUT |
| 15 | TUNED | I | TUNED CONTROL INPUT |
| 16 | HEADPHONE IN | I | |
| 17-21 | KEY MATRIX | I | KEY MATRIX PORTS |
| 22,23,27,30 | VSS | - | GND |
| 24 | VAREF | - | A/D CONVERTOR REFERENCE VOLTAGE |
| 26 | BACK UP | I | BACK-UP MODE CONTROL INPUT |
| 28,29 | FUNCTION SELECTOR | I | ENCODER DATA INPUT |
| 31 | X IN | I | |
| 32 | X OUT | O | 8MHz CRYSTAL CONNECTING TERMINAL |
| 33 | RESET | I | SYSTEM RESET PULSE INPUT |
| 34 | REMOTE IN | I | REMOTE CONTROL SIGNAL INPUT |
| 35 | BUS IN | I | SYSTEM CONTROL SIGNAL INPUT |
| 36 | BUS OUT | O | SYSTEM CONTROL SIGNAL OUTPUT |
| 38 | TUNER MUTE | O | TUNER MUTE ON/OFF CONTROL OUTPUT |
| 39 | SURROUND ON/OFF | O | SURROUND ON/OFF CONTROL OUTPUT |
| 40 | VOLUME DN | O | |
| 41 | VOLUME UP | O | MASTER VOLUME UP/DOWN CONTROL OUTPUT |
| 42 | AV1 MUTE | O | AV1 REC MUTE ON/OFF CONTROL OUTPUT |
| 43 | TAPE MUTE | O | TAPE REC MUTE ON/OFF CONTROL OUTPUT |
| 44 | FUNCTION MUTE | O | FUNTION MUTE ON/OFF CONTROL OUTPUT |
| 45 | VIDEO | O | |
| 46 | VIDEO | O | VIDEO CONTROL (NJM 2279D) CONTROL OUTPUT |
| 47 | STROBE 3 | O | |
| 48 | DATA3 | O | FUNCTION LED IC (NJU 3713D) CONTROL OUTPUT |
| 49 | CLOCK | O | |
| 50 | VFLP | | (-33V) NEGATIVE POWER SUPPLY FOR FIP BLINKING |
| 51-65 | GRID | O | FIP GRID CONTROL OUTPUTS |
| 66-94 | SEGMENT | O | FIP SEGMENT CONTROL OUTPUTS |
| 95 | OPTION A | I | |
| 96 | OPTION B | I | |
| 97 | OPTION C | I | |
| 98 | OPTION D | I | |
| 99 | PROTECT IN | I | INPUT FROM PROTECTION CIRCUIT |
| 100 | POWER MUTE | O | POWER MUTE CONTROL OUTPUT |

[U-COM FUNCTION : BVIANAM1228AT]

PIN ASSIGNMENTS
(TOP VIEW)

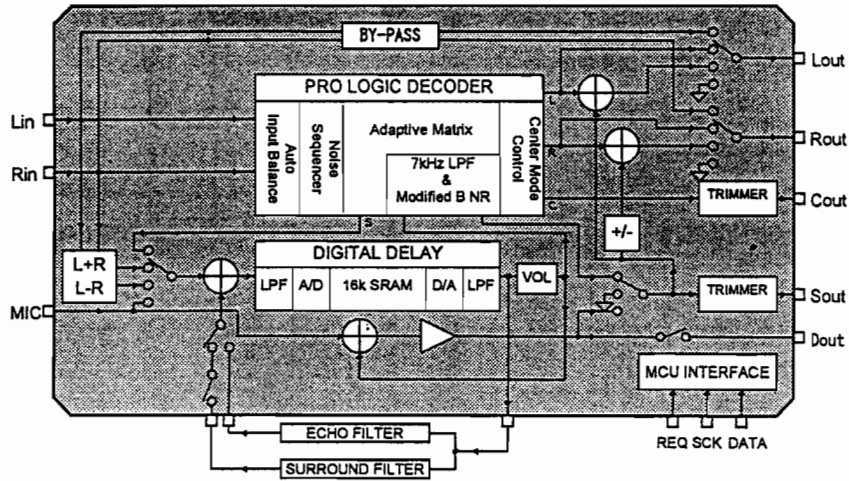


BLOCK DIAGRAM



IC BLOCK DIAGRAM (NJW1103)

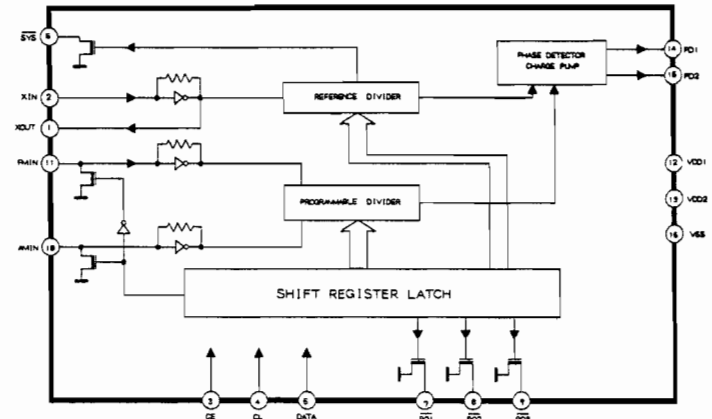
SYSTEM BLOCK DIAGRAM



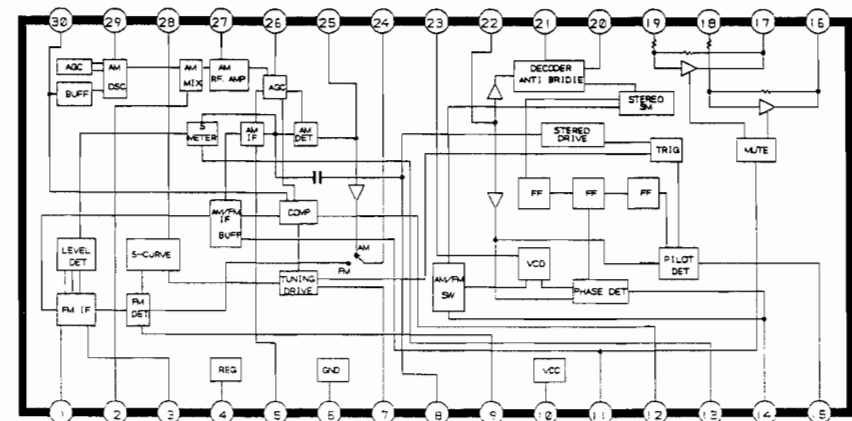
PIN CONNECTION

| No. | Name | No. | Name | No. | Name | No. | Name |
|-----|----------|-----|------------|-----|--------------|-----|-------|
| 1 | NGC1 | 21 | XIN | 41 | VOL OUT | 61 | RLC4 |
| 2 | LOUT | 22 | XOUT | 42 | DELAYSIG IN | 62 | RLC7 |
| 3 | ROUT | 23 | DVSS | 43 | DELAYSIG OUT | 63 | RLC3 |
| 4 | CT | 24 | AVSS | 44 | FBIN EC | 64 | RLC8 |
| 5 | COUT | 25 | AVDD | 45 | FBIN SU | 65 | RLC6 |
| 6 | ST | 26 | VREFD | 46 | S'OUT | 66 | LLI |
| 7 | SOUT | 27 | MIX OUT | 47 | DBIN | 67 | LBPF |
| 8 | CMC | 28 | DELAY IN | 48 | LPIN | 68 | RLI |
| 9 | SMRO | 29 | LPF1 IN1 | 49 | DBC1 | 69 | RBPF |
| 10 | SMRI | 30 | LPF1 IN2 | 50 | DBC2 | 70 | LT |
| 11 | AGND | 31 | LPF1 OUT | 51 | DBC3 | 71 | RT |
| 12 | MIC IN | 32 | AD INT IN | 52 | PCS3 | 72 | LIN |
| 13 | DVDD | 33 | AD INT OUT | 53 | PCS6 | 73 | RIN |
| 14 | TEST CNT | 34 | AD CONT | 54 | PCS2 | 74 | HOLDC |
| 15 | DATA | 35 | DA CONT | 55 | PCS5 | 75 | AVCC |
| 16 | SCK | 36 | DA INT IN | 56 | PCS1 | 76 | VREFA |
| 17 | REQ | 37 | DA INT OUT | 57 | PCS4 | 77 | VREFG |
| 18 | LO1 | 38 | LPF2 IN1 | 58 | RLC5 | 78 | IREF |
| 19 | LO2 | 39 | LPF2 IN2 | 59 | RLC2 | 79 | NGC3 |
| 20 | LO3 | 40 | LPF2 OUT | 60 | RLC1 | 80 | NGC2 |

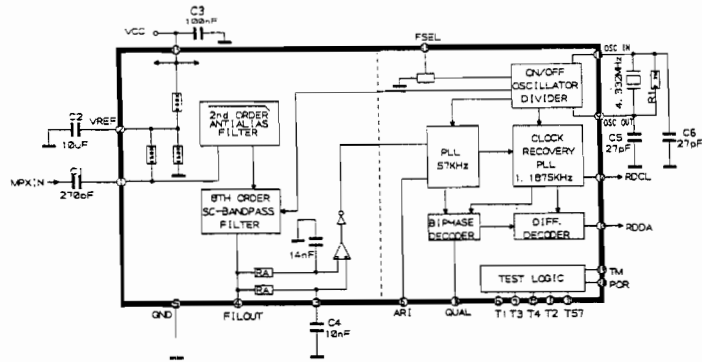
IC11 (TUNER) LM7001 (PLL SYNTHESIZER)



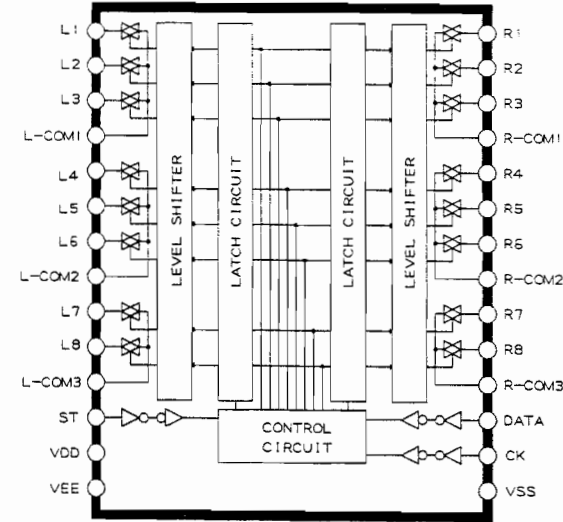
IC12 (TUNER) LA1836M (MPX + IF)



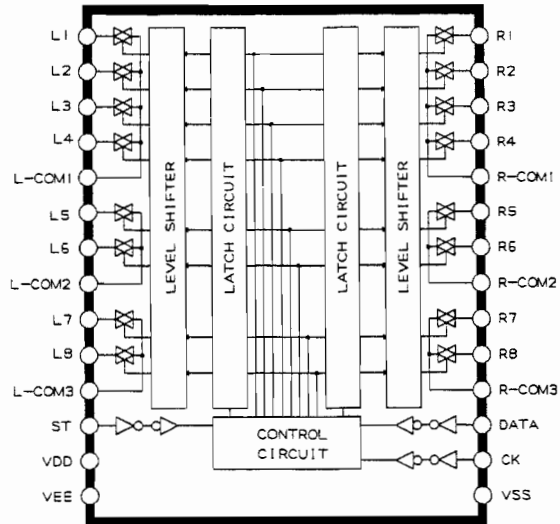
IC18 (TUNER) TDA7330BD (RDS DECODER)



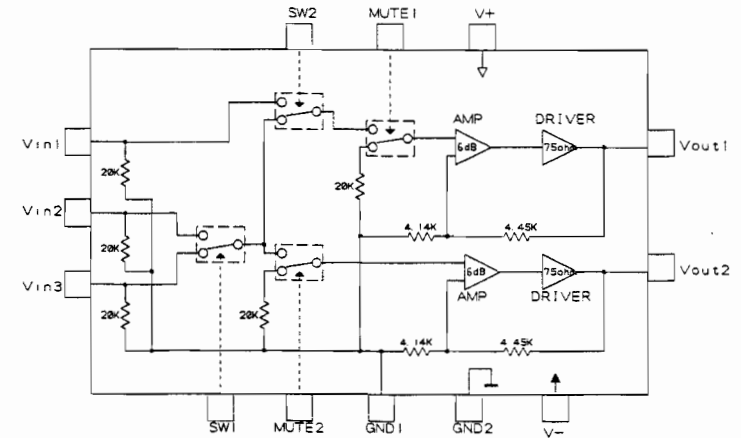
IC22 (INPUT) NJU7312 (FUNCTION SEL)



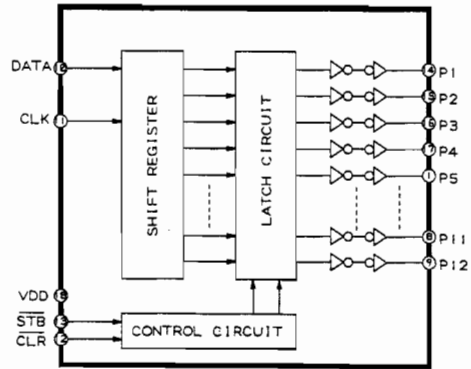
IC23 (INPUT) NJU7313 (FUNCTION SEL)









IC48 (INPUT) NJM2279D (VIDEO CONTROL)



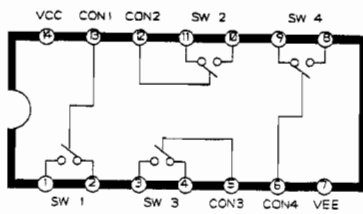
IC82 (FRONT) NJU3713 (DATA CONVERTER)



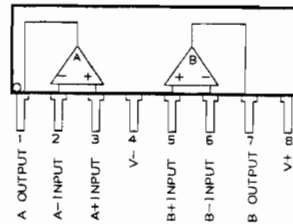
TRANSISTOR BLOCK DIAGRAM

| | | |
|--|---|--|
| <p>TO-92L</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>KSA1175Y KSB811Y KSD1021Y KSAC2785Y KTA114Y KTA144E KTC114Y KTC144T KTC3192 KTA1271Y</p> | <p>TO-92</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>KTD1302T KTC3228Y KTC3200GR</p> | <p>TO-92L</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>KSA916Y KSC2316Y</p> |
| <p>TO-220</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>KTA1659AY KTC4370AY 2SD2058</p> | <p>TO-220</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>KSA614Y MC7812C KSD288Y MC7912C</p> | <p>T0-3P</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>2SC3856 2SC4468 2SA1492 2SA1695</p> |

IC22 (INPUT) LC4966(AUDIO CONTROL)



IC21/25/32/33 (INPUT)
IC51/52/61/62 (AMP)
IC71/71/73/74 (FRONT)
NUM4556AL BLOCK DIAGRAM
NUM4558 (9) L (IC51)



MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

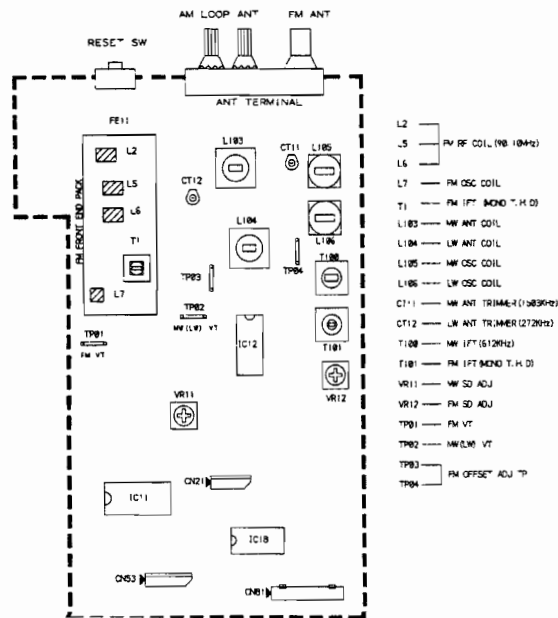
- MW(AM) Signal Generator
- FM Signal Generator
- Oscilloscope
- VTVM(AC, DC)
- Test loop antenna (MW Adjustment)
- Dummy antenna (FM Adjustment)
- Stereo signal modulator (RDS IN)
- Frequency counter
- Distortion analyser

IMPORTANT

1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

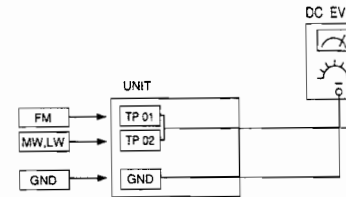
| Item | Modulation | Modulation frequency |
|-------|------------------|----------------------|
| MW/LW | 30% | 400Hz |
| FM | 100%(75KHz Dev.) | 400Hz |

■ ADJUSTMENT POINT



1. TUNING FREQUENCY RANGE ADJUSTMENTS

- (FM) DC VOLTMETERCONNECT TO TEST POINT TP01 and GND
 (MW, LW) DC VOLTMETERCONNECT TO TEST POINT TP02 and GND

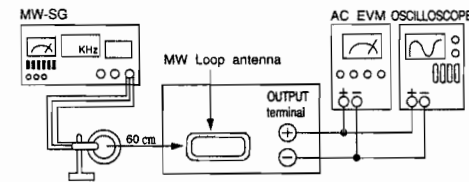


| No | Band | Frequency | Adjust for | Adjustment |
|----|------|-----------|------------|------------|
| 1 | FM | 87.50MHz | 1.6V | L7 |
| 2 | MW | 522KHz | 1V | L105 |
| 3 | LW | 146KHz | 1.3V | L106 |

2. MW/LW TRACKING ADJUSTMENT

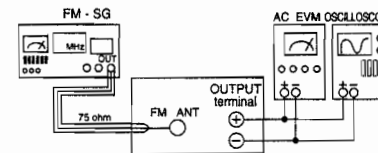
- Signal Generator Connects to the MW Ant. Coil through the loop antenna.
 Adjust for the indication of VTVM of the wave form of scope to be maximum.

| Band | Step | Frequency | Adjust for | Adjustment |
|---------|------|------------------------------------|---------------------|------------|
| MW (AM) | 1 | 612KHz | Maximum sensitivity | T100, L103 |
| | 2 | 1503KHz | Maximum sensitivity | CT11, T100 |
| | 3 | Repeat steps 1 and 2 several times | | |
| LW | 1 | 164KHz | Maximum sensitivity | L104 |
| | 2 | 272KHz | Maximum sensitivity | CT12 |
| | 3 | Repeat steps 1 and 2 several times | | |



3. FM-RF ADJUSTMENT

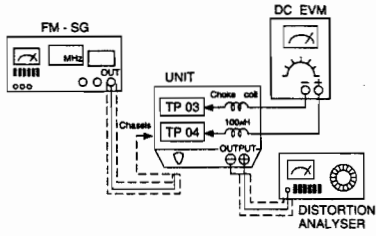
- Signal Generator Connect to FM ANT JACK (FM IN) through the dummy.



| No | Frequency | Adjust for | Adjustment |
|----|-----------------------------|---------------------|------------|
| 1 | 90.10MHz | Maximum Sensitivity | L2, L5, L6 |
| 2 | Repeat step 1 several times | | |

4. FM MONO DISTORTION ADJUSTMENT

DC VOLT METER Connect to TP03(-), TP04(+) Through the choke coil(100μH)
 Signal Generator Connect to FM ANT JACK(FM IN) through the dummy.
 Distortion Meter Connect to the output



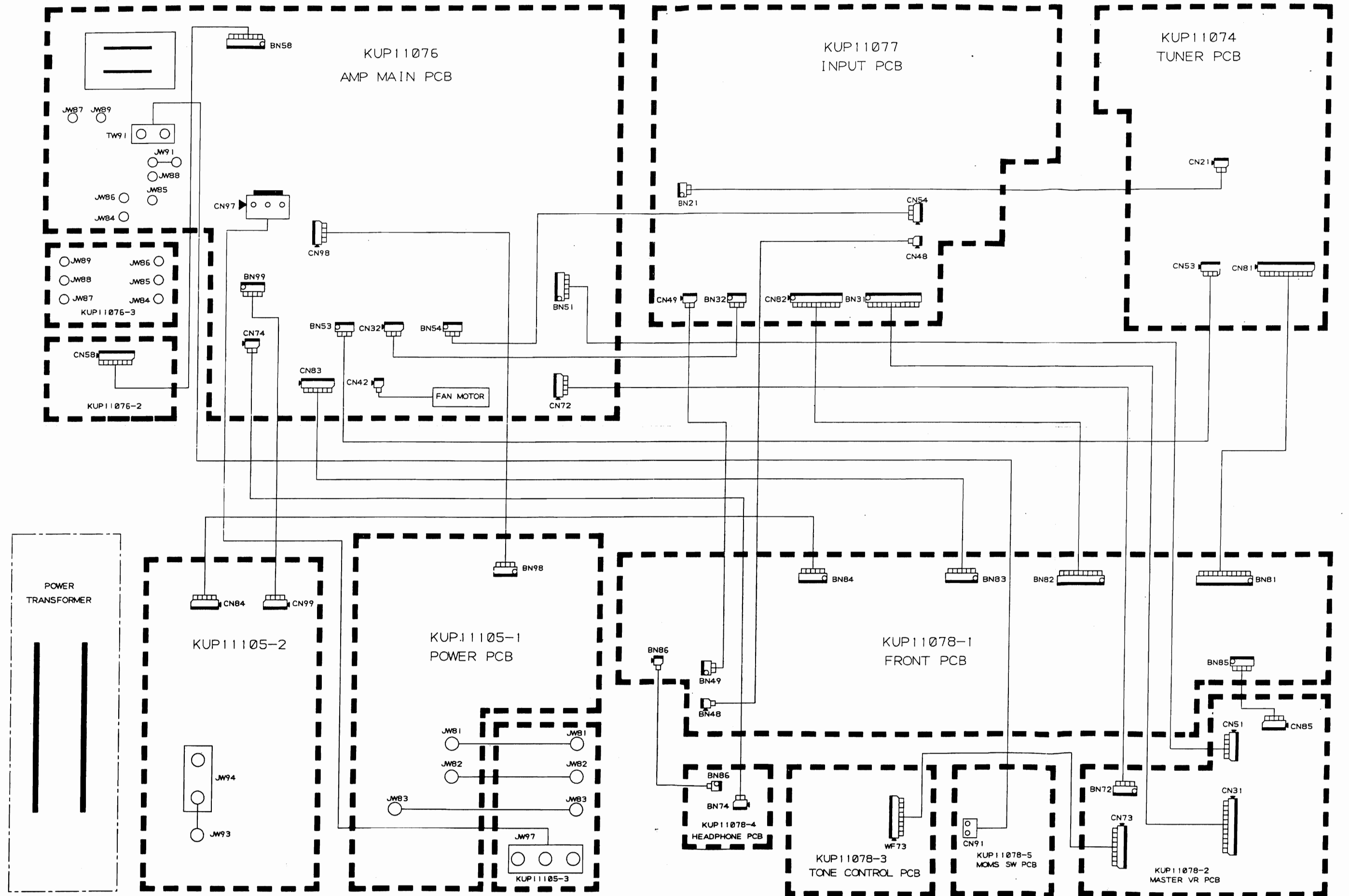
| No | Frequency | Adjust for | Adjustment |
|----|-------------------------------------|-----------------|------------|
| 1 | 100.50MHz | DC Voltmeter 0V | T101 |
| 2 | 100.50MHz | Minimum T. H. D | T101 |
| 3 | Repeat steps 1 and 2 Several times. | | |

5. FM/MW(LW) AUTO STOP LEVEL ADJUSTMENT

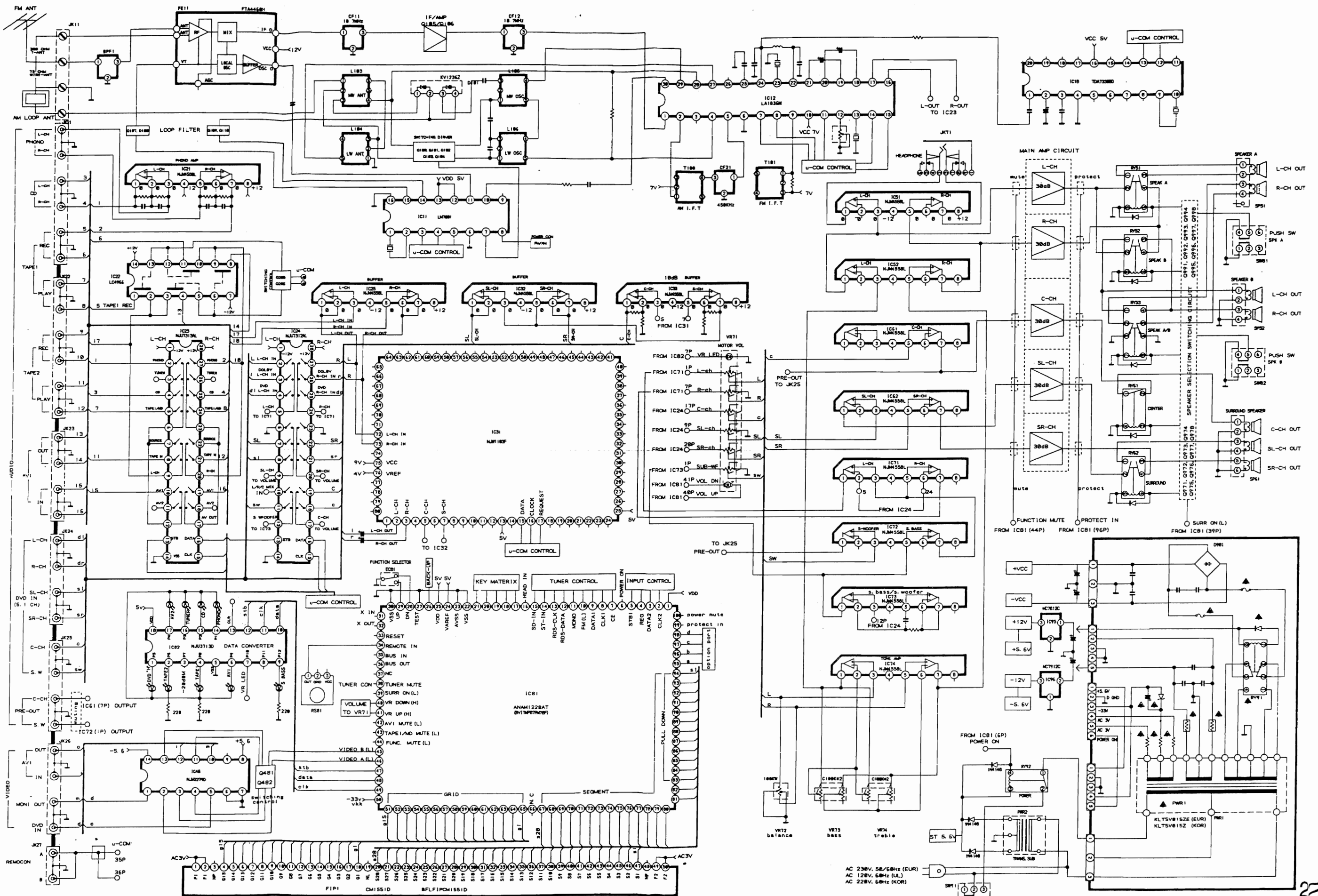
FM SIGNAL GENERATOR Connect to FM ANT JACK(FM IN) through the dummy.
 (MW, LW)SIGNAL GENERATOR Connect to FM ANT. Coil through the Loop antenna

| Band | Step | Signal Generator | Adjust for | Adjustment |
|-------|------|------------------|--|------------|
| MW/LW | 1 | 990KHz 88dB | <input type="checkbox"/> TUNED Display OFF | VR12 |
| | 2 | 990KHz 88dB | <input type="checkbox"/> TUNED Display ON | VR12 |
| FM | 1 | 100.1MHz 32dB | <input type="checkbox"/> TUNED Display OFF | VR11 |
| | 2 | 100.1MHz 32dB | <input type="checkbox"/> TUNED Display ON | VR11 |

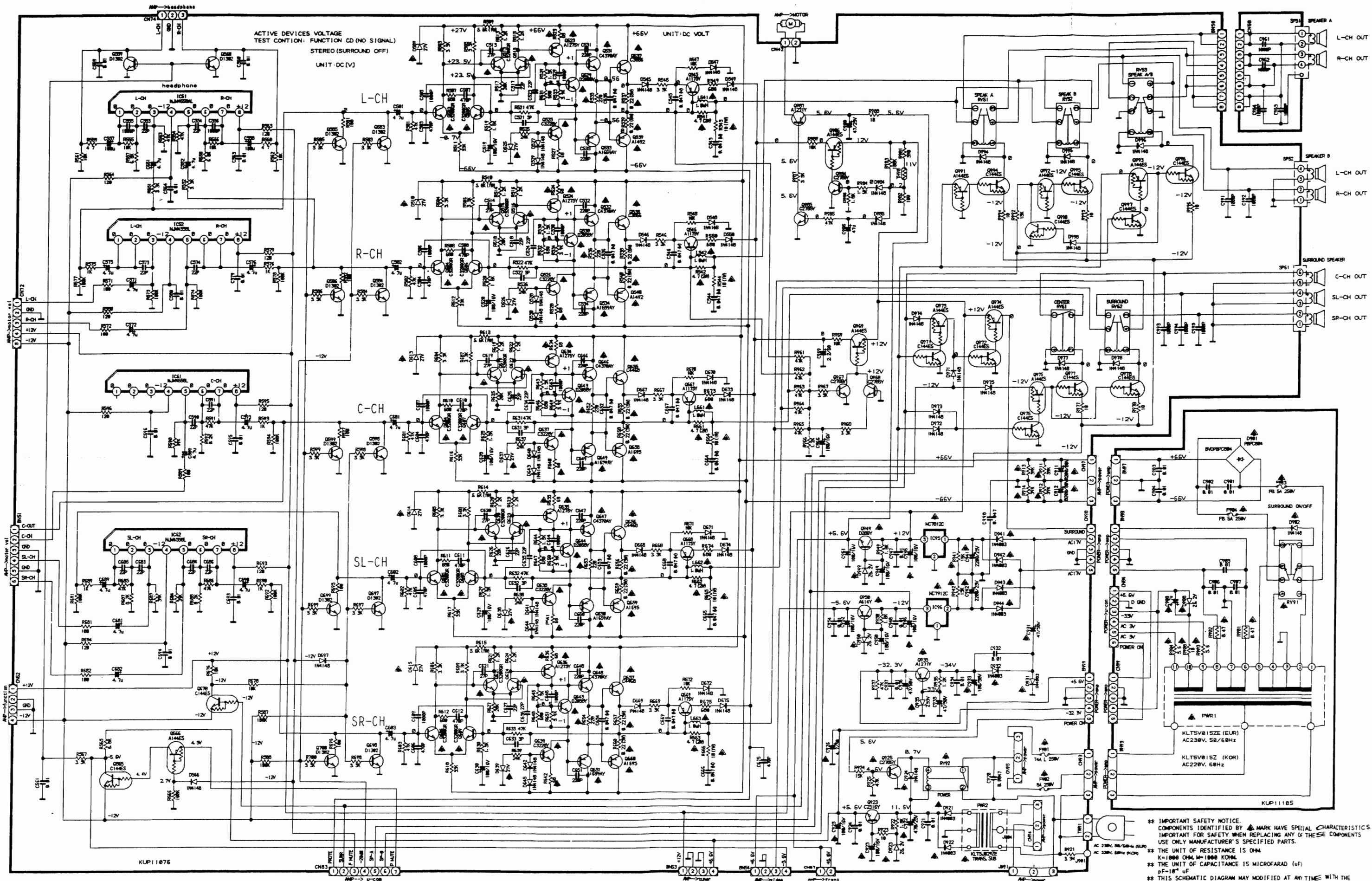
WIRING DIAGRAM



BLOCK DIAGRAM

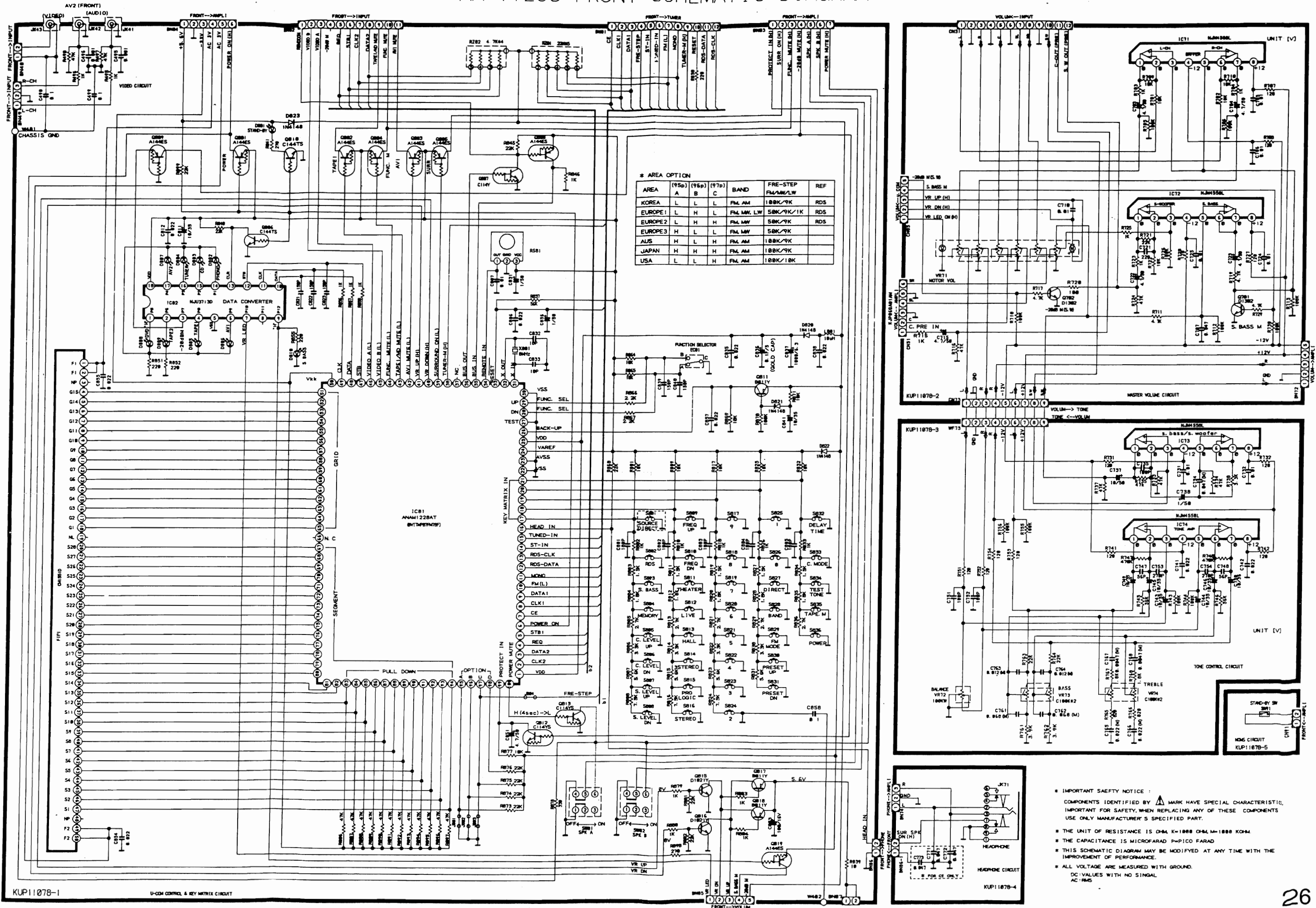


SCHEMATIC DIAGRAM



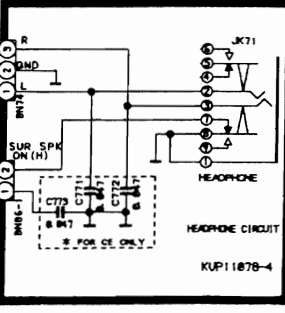
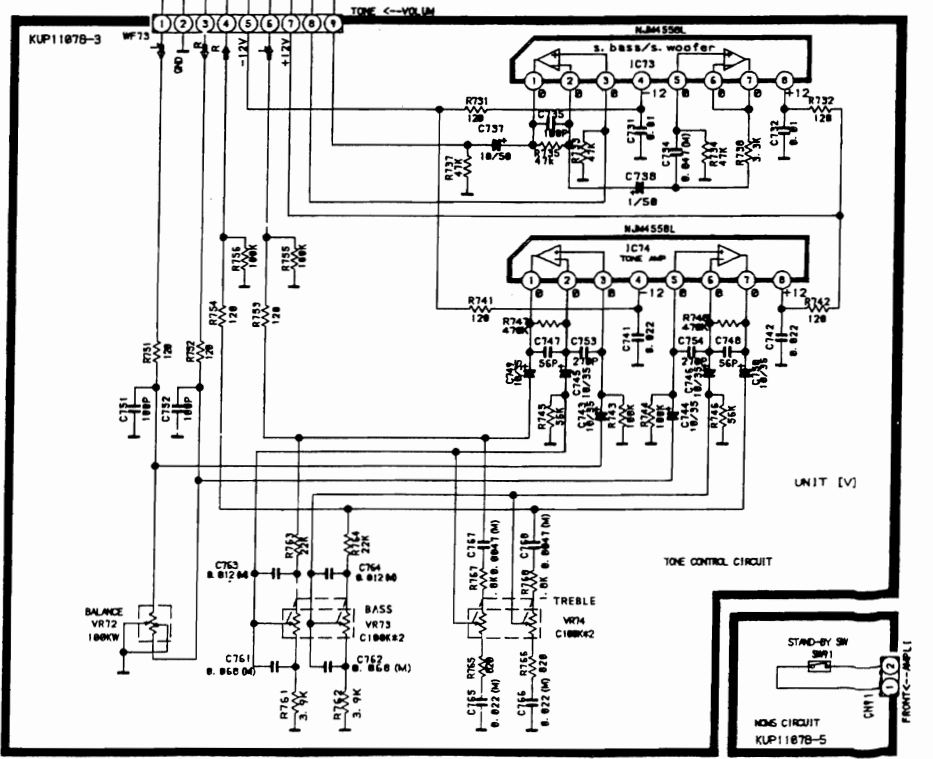
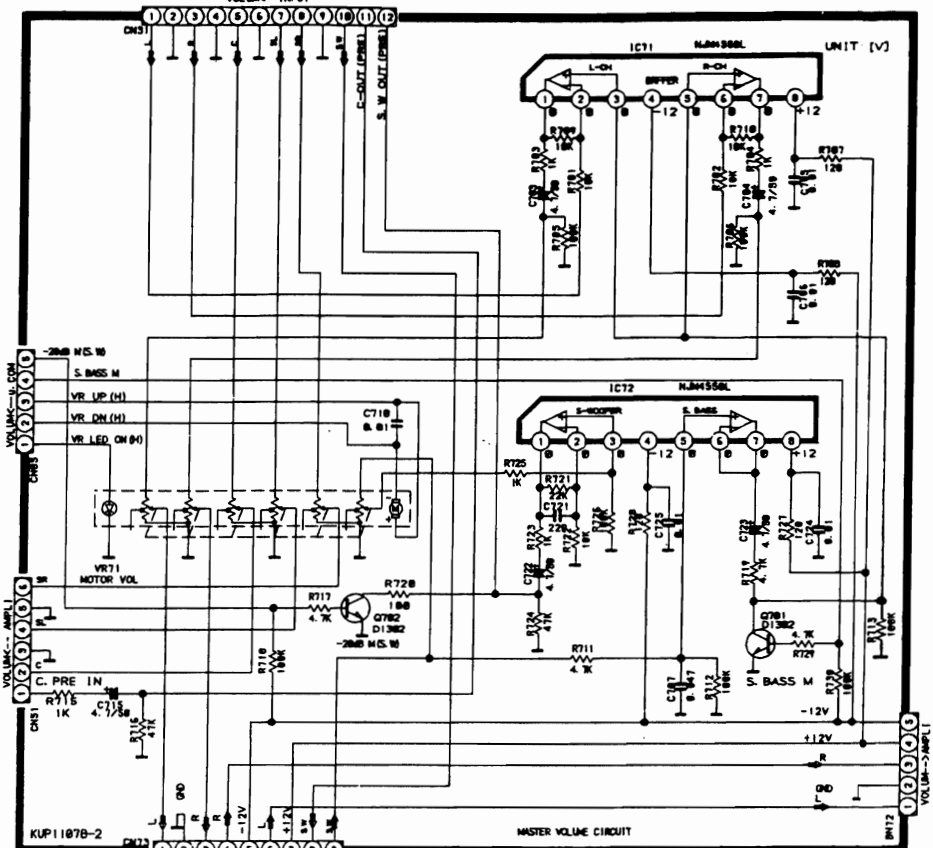
** IMPORTANT SAFETY NOTICE.
 COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS
 IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS
 USE ONLY MANUFACTURER'S SPECIFIED PARTS.
 ** THE UNIT OF RESISTANCE IS OHM
 K=1000 OHM, M=1000 KOHM
 ** THE UNIT OF CAPACITANCE IS MICROFARAD (UF)
 P=10⁻¹² UF
 ** THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WITH THE
 IMPROVEMENT OF PERFORMANCE

AA-V1200 FRONT SCHEMATIC DIAGRAM



* AREA OPTION

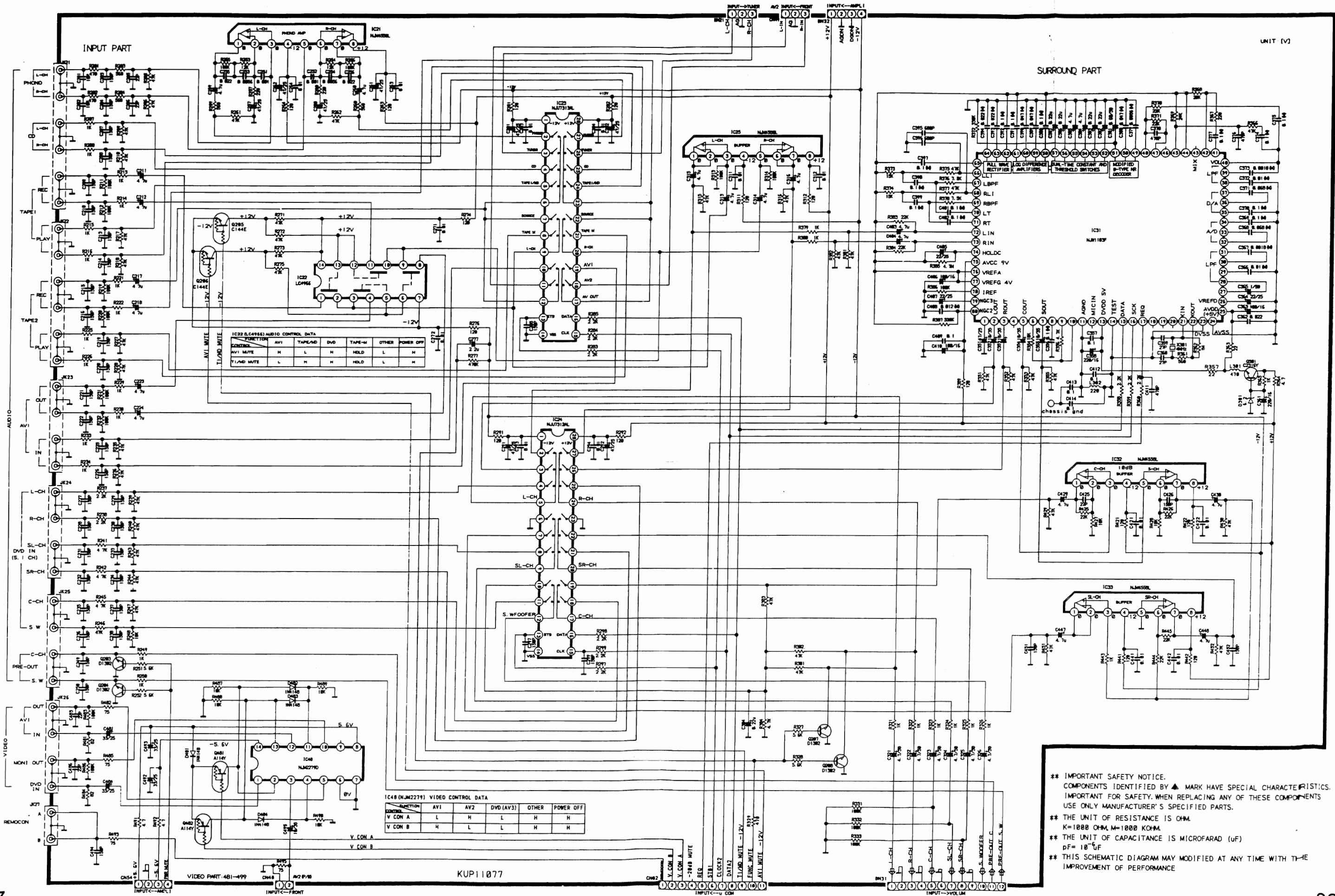
| AREA | (95p) | (96p) | (97p) | BAND | FRE-STEP | REF |
|---------|-------|-------|-------|------------|-----------|-----|
| KOREA | L | L | C | FM, AM | 100K/9K | RDS |
| EUROPE1 | L | H | L | FM, MW, LW | 50K/9K/1K | RDS |
| EUROPE2 | L | H | H | FM, MW | 50K/9K | RDS |
| EUROPE3 | H | L | L | FM, MW | 50K/9K | |
| AUS | H | L | L | FM, AM | 100K/9K | |
| JAPAN | H | H | H | FM, AM | 100K/9K | |
| USA | L | L | H | FM, AM | 100K/10K | |



IMPORTANT SAFETY NOTICE :
 COMPONENTS IDENTIFIED BY Δ MARK HAVE SPECIAL CHARACTERISTICS, IMPORTANT FOR SAFETY, WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PART.

• THE UNIT OF RESISTANCE IS OHM, K=1000 OHM, M=1000 KOHM
 • THE CAPACITANCE IS MICROFARAD μ =PICO FARAD
 • THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE.
 • ALL VOLTAGE ARE MEASURED WITH GROUND.
 DC VALUES WITH NO SIGNAL
 AC RMS

AA-V1200 INPUT SCHEMATIC DIAGRAM



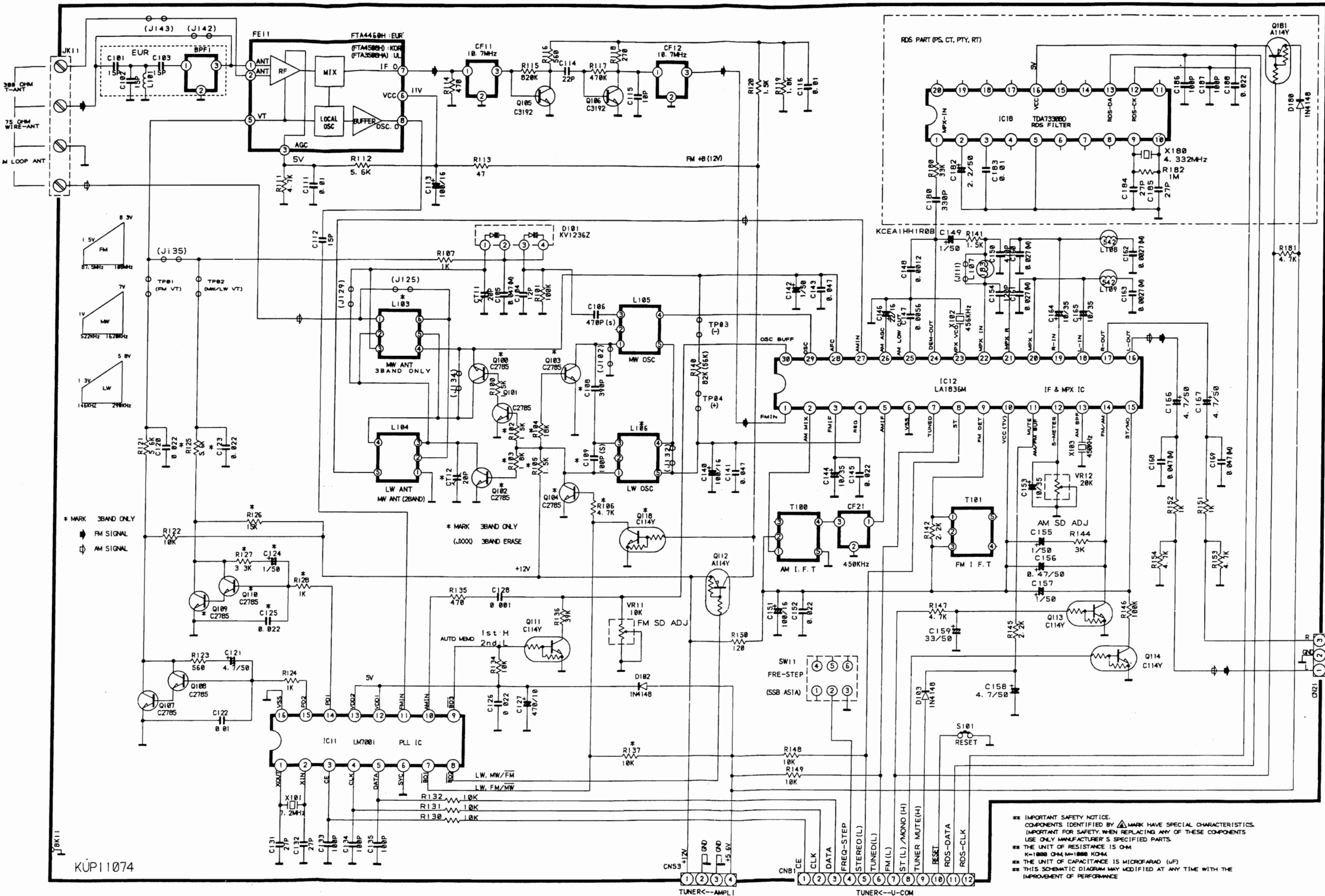
**** IMPORTANT SAFETY NOTICE.**
 COMPONENTS IDENTIFIED BY ▲ MARK HAVE SPECIAL CHARACTERISTICS.
 IMPORTANT FOR SAFETY, WHEN REPLACING ANY OF THESE COMPONENTS
 USE ONLY MANUFACTURER'S SPECIFIED PARTS.

**** THE UNIT OF RESISTANCE IS OHM.
 K=1000 OHM, M=1000 KOHM.**

**** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
 pF= 10⁻¹² uF**

**** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
 IMPROVEMENT OF PERFORMANCE**

AA-V1200 TUNER SCHEMATIC DIAGRAM



TDA7338D (IC18) FM ONLY UNIT [V]

| | |
|----|-----|
| 1 | 2.4 |
| 2 | 2.4 |
| 3 | 1.7 |
| 4 | 1.7 |
| 5 | 0 |
| 6 | 2.9 |
| 7 | 2.6 |
| 8 | 2.7 |
| 9 | 2.6 |
| 10 | 2.6 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 | 5 |
| 16 | 5 |
| 17 | 0 |
| 18 | 2.3 |
| 19 | 2.6 |
| 20 | 2.7 |

LA1836M (IC12) UNIT [V]

| | | | |
|----|-----|-----|-----|
| 1 | 3.6 | 3.6 | 3.6 |
| 2 | 7.3 | 0 | 0 |
| 3 | 3.6 | 3.6 | 3.6 |
| 4 | 3.6 | 3.6 | 3.6 |
| 5 | 3.6 | 3.6 | 3.6 |
| 6 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 |
| 8 | 0 | 5.2 | 5.2 |
| 9 | 7.3 | 0 | 0 |
| 10 | 7.3 | 0 | 0 |
| 11 | 0 | 0 | 0 |
| 12 | 4.3 | 4.2 | 4.2 |
| 13 | 1.7 | 1.6 | 1.6 |
| 14 | 5.7 | 0 | 0 |
| 15 | 6.2 | 6.7 | 6.6 |
| 16 | 3.6 | 3.6 | 3.6 |
| 17 | 3.6 | 3.6 | 3.6 |
| 18 | 3.6 | 3.6 | 3.6 |
| 19 | 3.6 | 3.6 | 3.6 |
| 20 | 3.5 | 3.5 | 3.5 |
| 21 | 3.5 | 3.5 | 3.5 |
| 22 | 2.8 | 2.8 | 2.8 |
| 23 | 4.5 | 1.4 | 1.2 |
| 24 | 2.5 | 3.5 | 4.0 |
| 25 | 2.8 | 3.4 | 3.9 |
| 26 | 0 | 1.3 | 1.3 |
| 27 | 3.5 | 3.2 | 3.2 |
| 28 | 3.5 | 3.2 | 3.6 |
| 29 | 3.6 | 3.6 | 3.6 |
| 30 | 1.6 | 1.3 | 1.3 |

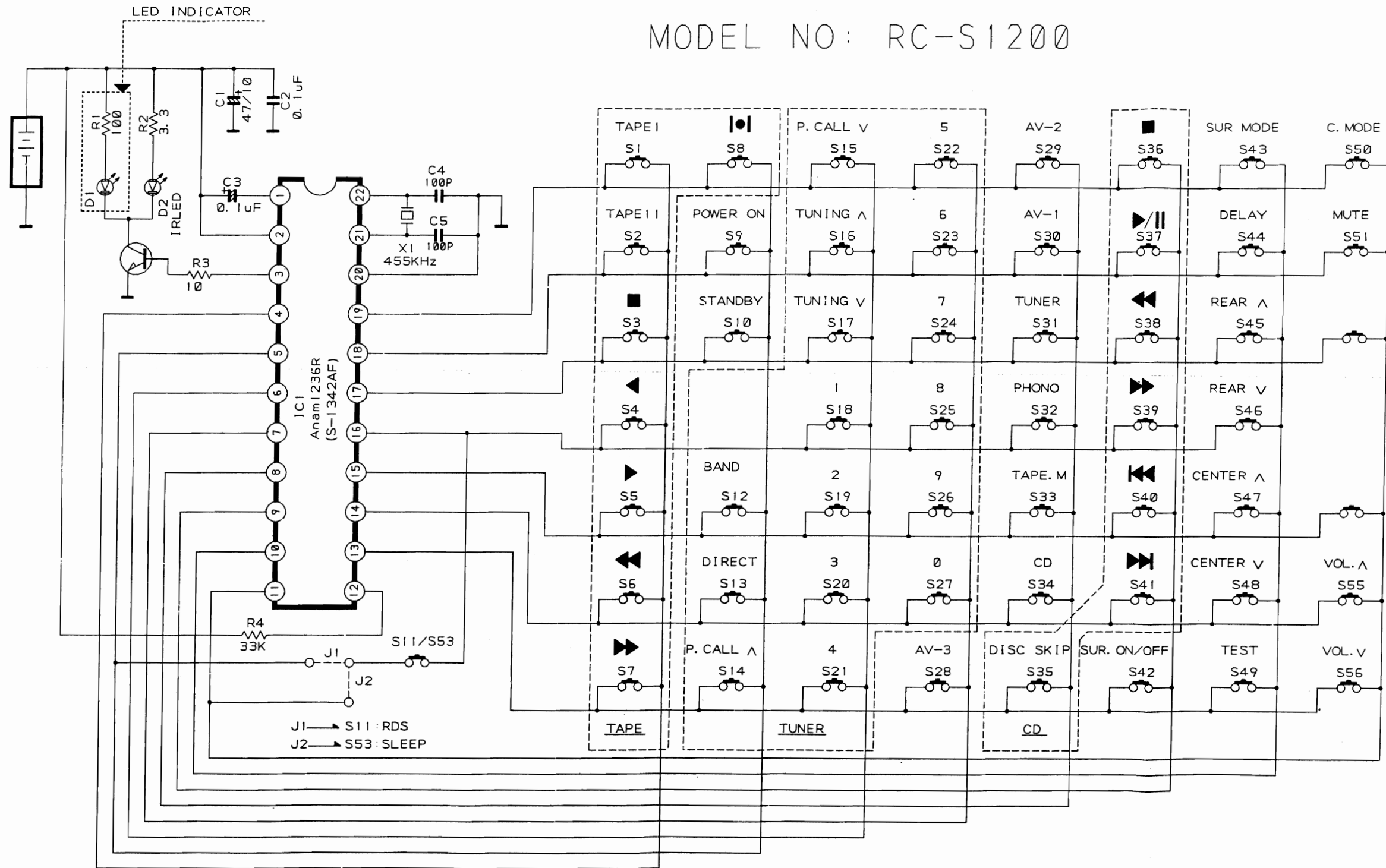
LM7001 (IC11) UNIT [V]

| | | | |
|----|-----|-----|-----|
| 1 | 1.3 | 1.6 | 1.3 |
| 2 | 1.6 | 1.6 | 1.6 |
| 3 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 |
| 5 | 5.2 | 0 | 0 |
| 6 | 0 | 0 | 0 |
| 7 | 1.8 | 0 | 2.2 |
| 8 | 0 | 2 | 1.2 |
| 9 | 0 | 1 | 0 |
| 10 | 0 | 1.8 | 1.8 |
| 11 | 2.8 | 1 | 0 |
| 12 | 4.7 | 1.7 | 4.7 |
| 13 | 4.7 | 1.7 | 4.7 |
| 14 | 1.1 | 1 | 1.1 |
| 15 | 1 | 1 | 1.1 |
| 16 | 0 | 1 | 0 |

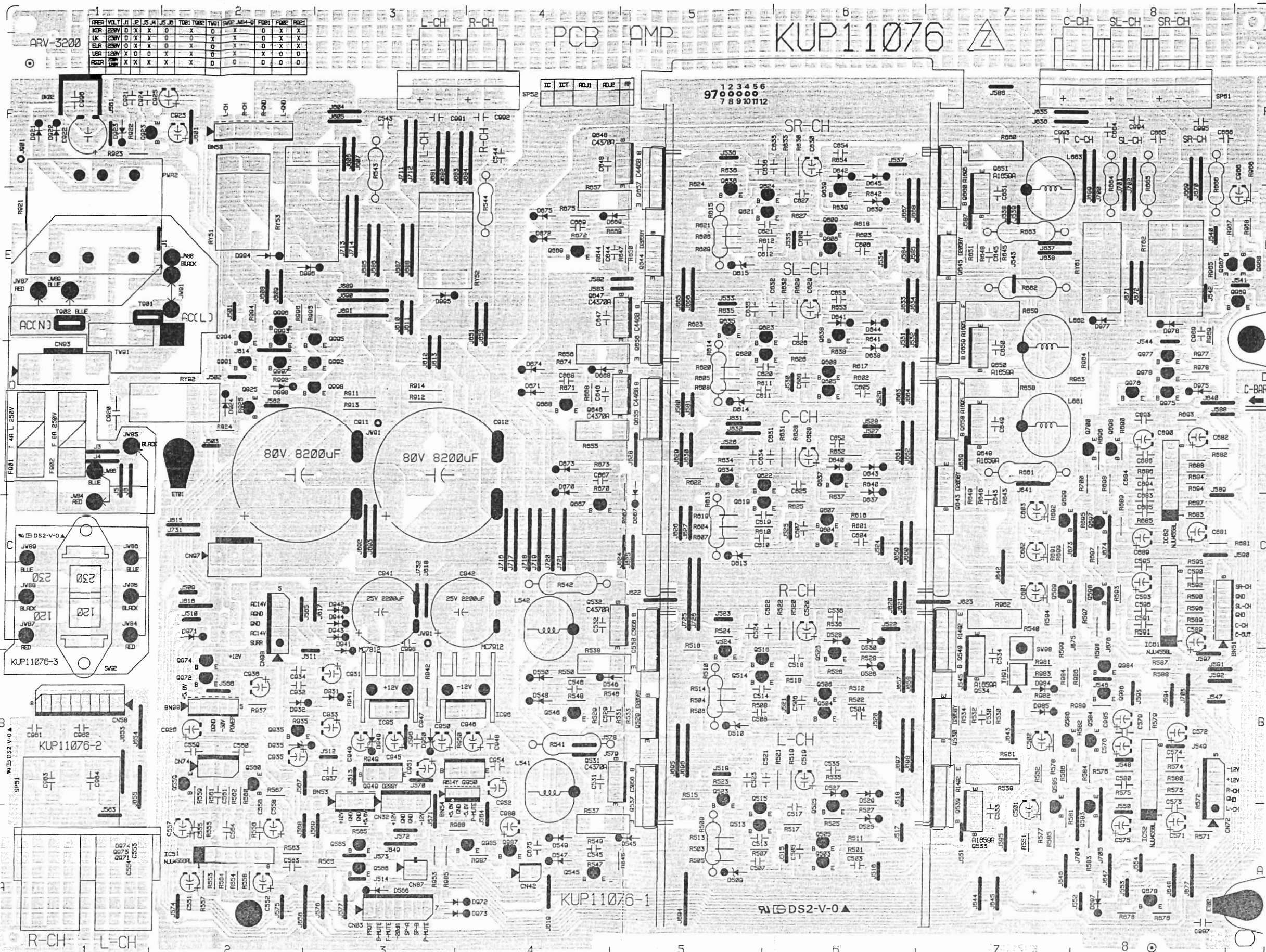
*** IMPORTANT SAFETY NOTICE. COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY, WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PARTS. ** THE UNIT OF RESISTANCE IS OHM. K=1000 OHM, M=1000 KOHM. ** THE UNIT OF CAPACITANCE IS MICROFARAD (UF). ** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE.

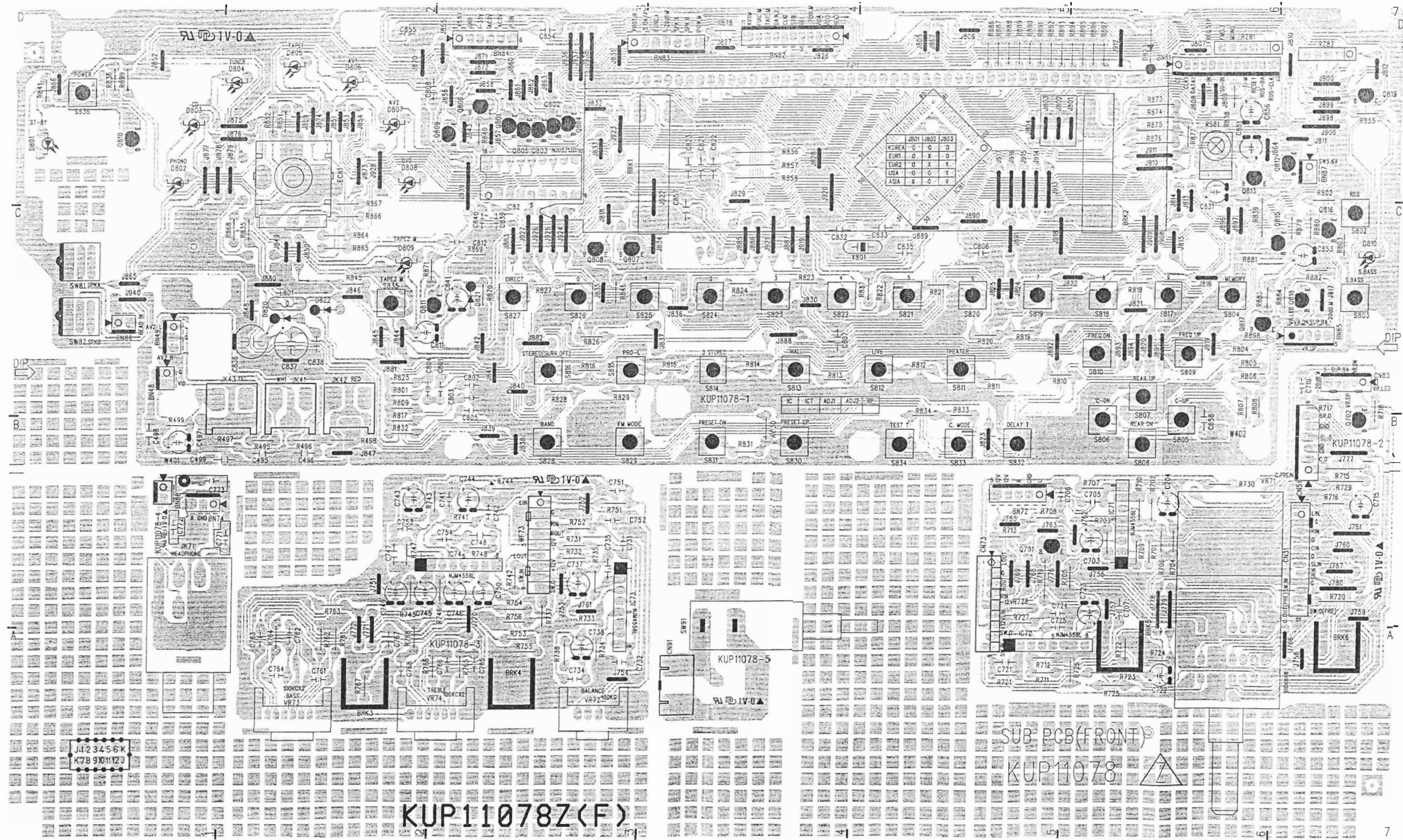
REMOTE CONTROL SCHEMATIC DIAGRAM

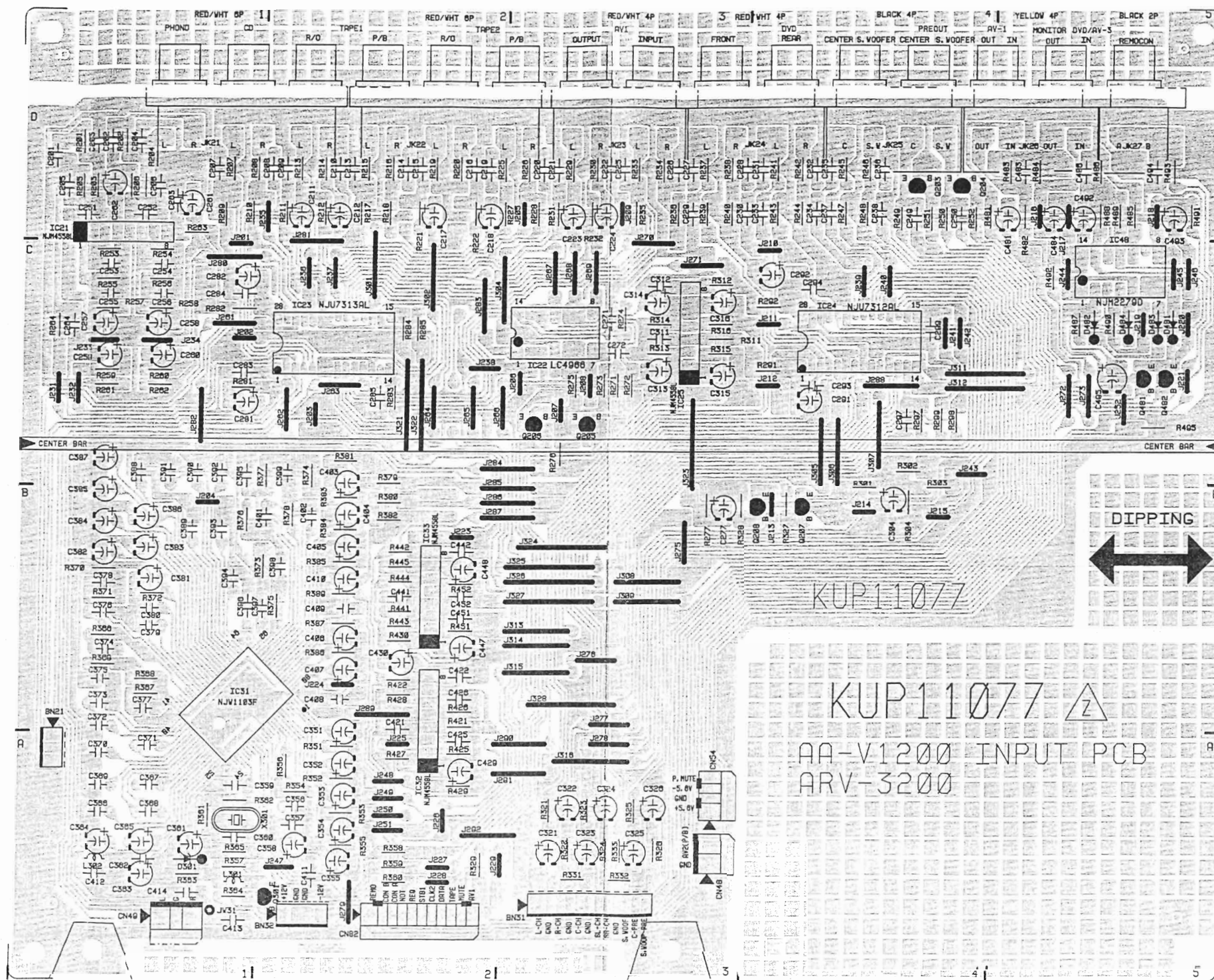
MODEL NO: RC-S1200



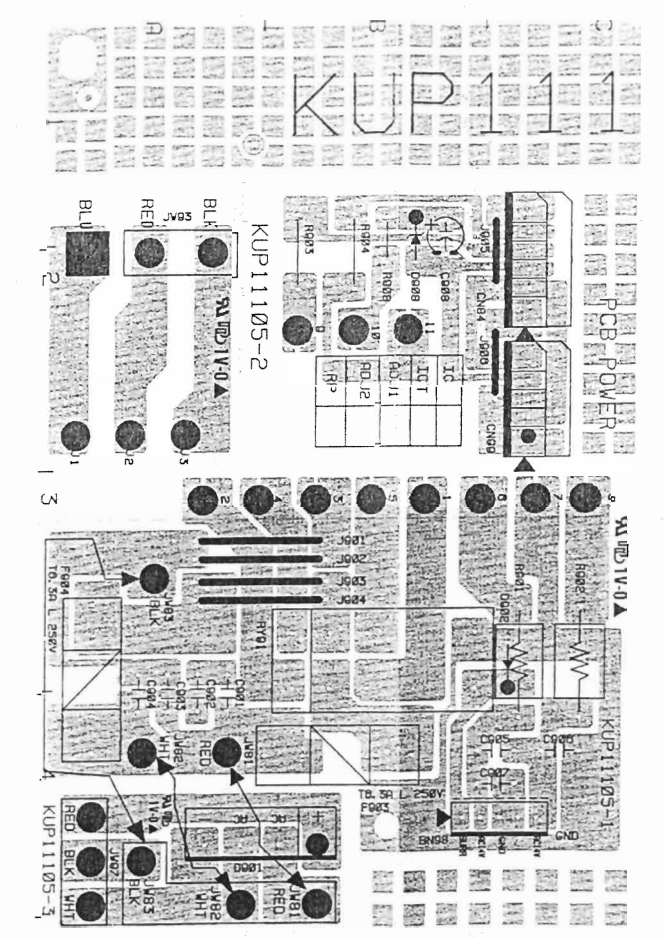
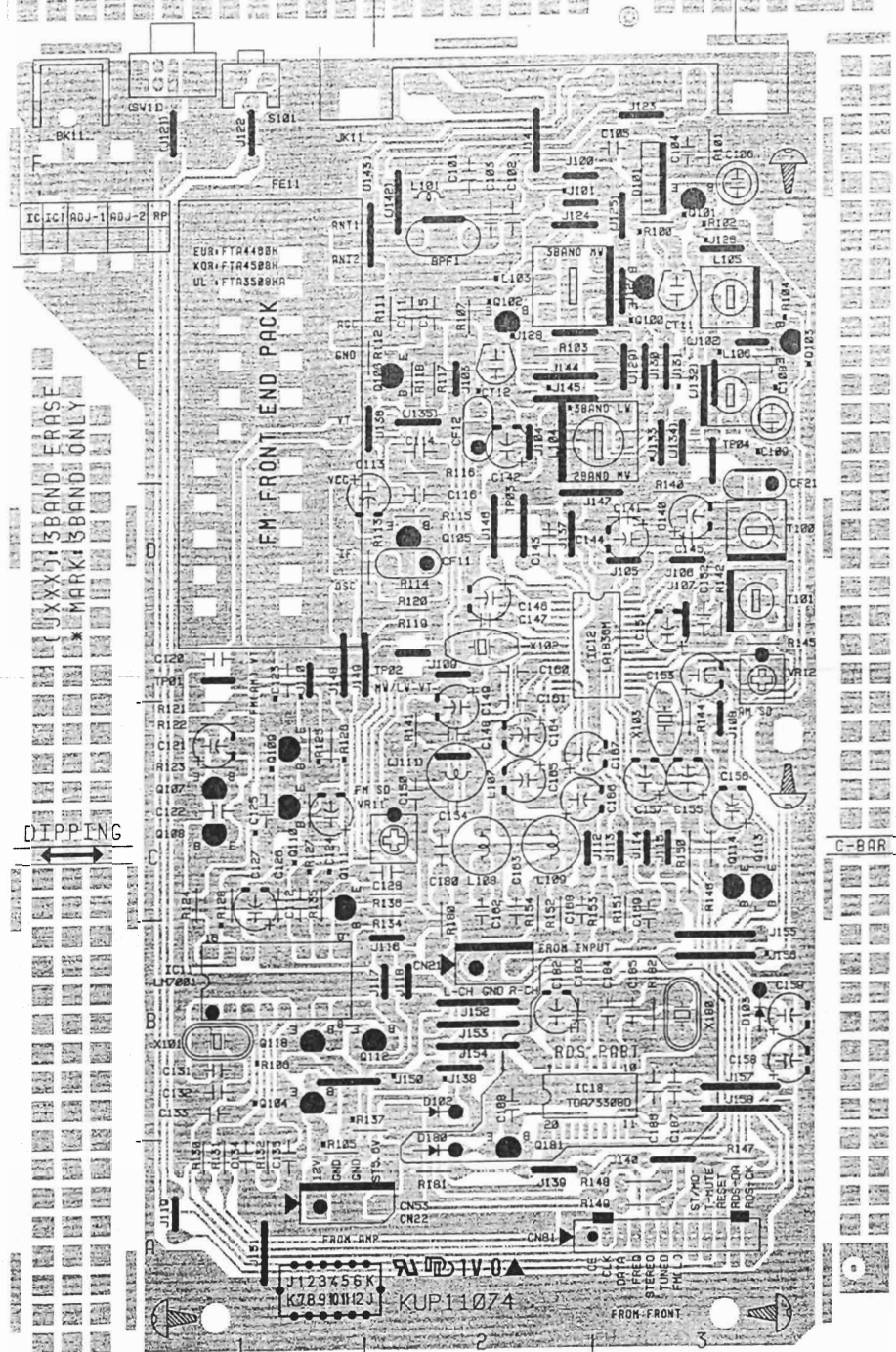
PRINTED CIRCUIT BOARDS



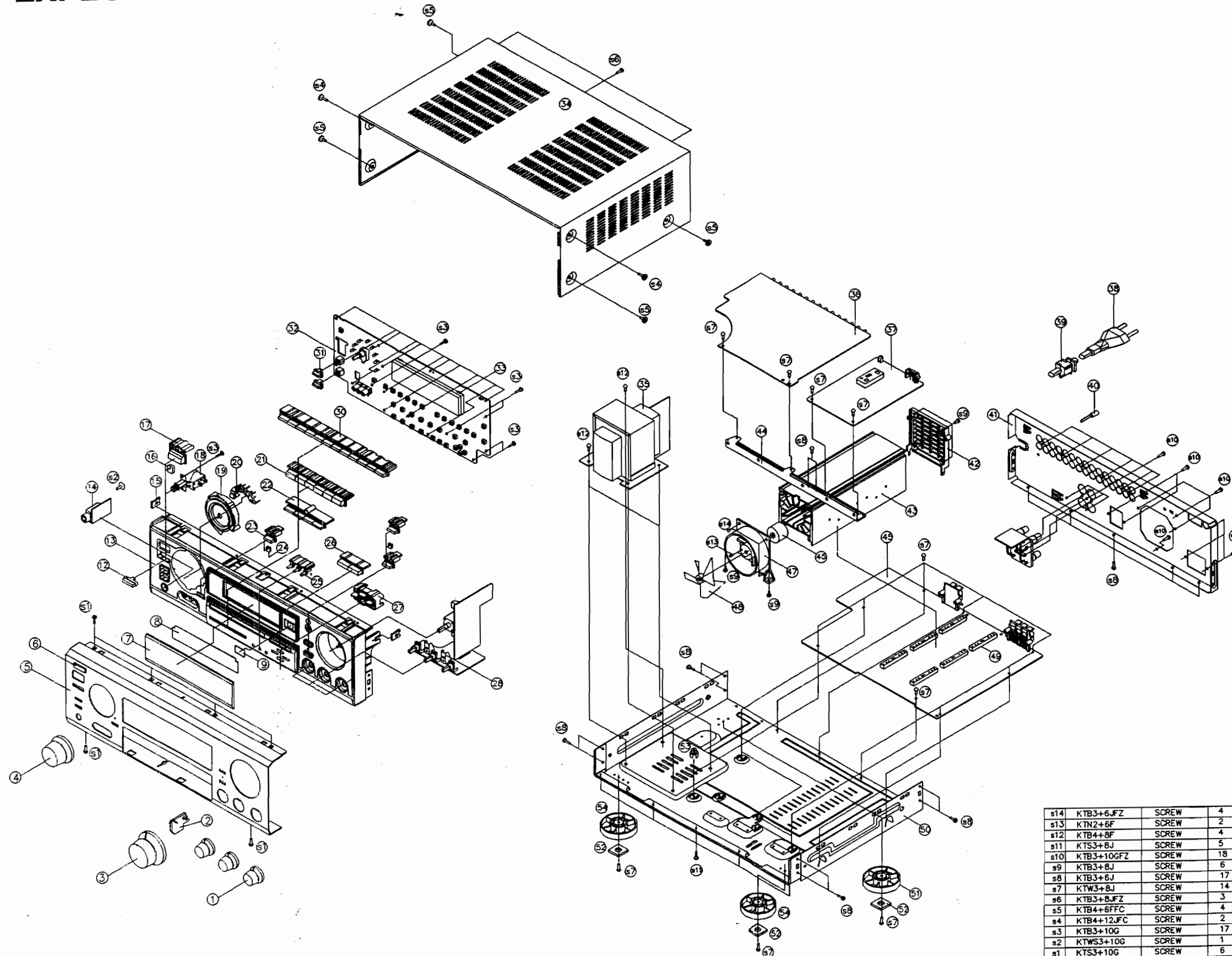




V1200, ARV-3200 TUNER PCB



EXPLODED VIEW



| No. | PART No. | DESCRIPTION | Q'TY |
|-----|------------|-------------|------|
| s14 | KTB3+6JFZ | SCREW | 4 |
| s13 | KTN2+6F | SCREW | 2 |
| s12 | KTB4+8F | SCREW | 4 |
| s11 | KTS3+8J | SCREW | 5 |
| s10 | KTB3+10GFZ | SCREW | 18 |
| s9 | KTB3+8J | SCREW | 6 |
| s8 | KTB3+6J | SCREW | 17 |
| s7 | KTW3+8J | SCREW | 14 |
| s6 | KTB3+8JFZ | SCREW | 3 |
| s5 | KTB4+8FFC | SCREW | 4 |
| s4 | KTB4+12JFC | SCREW | 2 |
| s3 | KTB3+10G | SCREW | 17 |
| s2 | KTWS3+10G | SCREW | 1 |
| s1 | KTS3+10G | SCREW | 6 |

| 54 | KKL1A048H7 | FRONT FOOT | 2 |
|-----|----------------|--------------------|------|
| 53 | KHE170 | PCB HOLDER | 2 |
| 52 | KHG1A084 | CHSLION FOOT | 4 |
| 51 | KKL1A048 | FOOT(REAR) | 2 |
| 50 | KUA1A148 | BOTTOM CHASSIS | 1 |
| 49 | KMH1A069 | TR SUPPORT | 6 |
| 48 | KDD1A013 | FAN | 1 |
| 47 | KGP1A016 | FRAME FAN | 1 |
| 46 | BVVF02A104E | MOTOR | 1 |
| 45 | KOP11076B | MAIN PCB ASS'Y | 1 |
| 44 | KMD1A348 | SUB BRACKET | 1 |
| 43 | KMY1A123 | HEAT SINK | 1 |
| 42 | KGP1A015 | HEAT SINK COVER | 1 |
| 41 | KKF1A145Z | REAR PANEL | 1 |
| 40 | KMA2A001 | GROUND TERMINAL | 1 |
| 39 | KHR1A030 | CORD BUSHING | 1 |
| 38 | BJA2B033Z | POWER CORD | 1 |
| 37 | KOP11074B | TUNER PCB ASS'Y | 1 |
| 36 | KOP11077B | FUNCTION PCB ASS'Y | 1 |
| 35 | KLTSV015ZE | TRANS | 1 |
| 34 | KKCB085S21 | TOP CABINET | 1 |
| 33 | KMD1A209 | FLT BRACKET | 2 |
| 32 | KUP11078Z | FRONT PCB ASS'Y | 1 |
| 31 | KBC1A093M7K73 | SPEAKER KNOB | 2 |
| 30 | KBT1A463M7K73 | MEMORY KNOB | 1 |
| 29 | | | |
| 28 | KMD1A081 | PCB BRACKET | 2 |
| 27 | KBT1A477M7ZK73 | LEVEL KNOB | 1 |
| 26 | KBT1A469M7ZK73 | TUNING KNOB | 1 |
| 25 | KBT1A461M7K73 | MODE KNOB | 1 |
| 24 | KGL1A130 | INDICATOR | 2 |
| 23 | KBT1A462M7K73 | MONITOR KNOB | 3 |
| 22 | KBT1A470M7K73 | BAND KNOB | 1 |
| 21 | KBT1A468M7K73 | STEREO KNOB | 1 |
| 20 | KGL1A131 | FUNCTION INDICATOR | 1 |
| 19 | KGR1A123M7K73 | FUNCTION ORNAMENT | 1 |
| 18 | KJP02GAB9ZM | WAFER | 1 |
| 17 | KBT1A475M7K73 | POWER KNOB | 1 |
| 16 | KGL1A039 | INDICATOR FLAT | 1 |
| 15 | KNE4060 | U-NUT | 2 |
| 14 | BJJ02GAB9ZM | HEAD JACK | 1 |
| 13 | KGW1A209MB2K73 | SUB PANEL | 1 |
| 12 | KBC1A094M7K73 | POWER KNOB | 1 |
| 11 | | | |
| 10 | | | |
| 9 | KGU1A026 | REMOCON FILTER | 1 |
| 8 | KMZ1A064 | FIP FILTER | 1 |
| 7 | KGU1A166 | FIP WINDOW | 1 |
| 6 | KGB1A045Z | BADGE | 1 |
| 5 | KKM2A066ZC16 | FRONT PANEL | 1 |
| 4 | KBN1A078M7K73 | FUNCTION KNOB | 1 |
| 3 | KBN1A077M7K73 | VOLUME KNOB | 1 |
| 2 | KGL1A132 | VOL INDICATOR | 1 |
| 1 | KBN1A075M7K73 | ROTARY KNOB | 3 |
| No. | PART No. | DESCRIPTION | Q'TY |

PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering.
If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
3. How to read the Parts List.

■ Resistor and Capacitor

Notes : Part numbers are indicated for most mechanical parts.

Please use this part number for parts order.

· IMPORTANT SAFETY NOTICE.

Components identified by \triangle mark have special characteristics important for safety.

When replacing any of these components, use only manufacture's specified parts.

· The unit of resistance is OHM(Ω)

K=1000(Ω), M=1000(K Ω)

· The unit of capacitance is MICROFARAD(μ F).

P=10⁹ μ F

■ Numbering System of Resistor

Example

| | | | | |
|------|---------|-------|-----------|-------|
| KRD | 25 | F | J | 101 |
| Type | Wattage | Shape | Tolerance | Value |

| Resistor Type | Wattage | Tolerance |
|------------------|---------|-----------|
| KRD:Carbon | 20:1/5W | F:± 1% |
| KRG:Metal Oxide | 25:1/4W | J:± 5% |
| | 50:1/2W | K:± 10% |
| | 1:1W | |
| KRF:Metal Cement | 2:2W | |
| | 3:3W | |

■ Numbering System of Capacitor

Example

| | | | | |
|------|---------|-------|-----------|-------------|
| KCKT | 1H | 101 | K | B |
| Type | Voltage | Value | Tolerance | Peculiarity |

| Capacitor Type | Voltage | | Tolerance |
|---------------------|-----------|------------|----------------|
| | ECEA Type | Other | |
| KCB: Ceramic | OJ:6.3V | 1H:50V DC | C:± 0.25pF |
| KCC: Ceramic | 1A:10V | 1:125V DC | G:± 2% |
| KCK: Ceramic | 1C:16V | KC:400V AC | J:± 5% |
| KCFR: Semiconductor | 1E:25V | | K:± 10% |
| KCQI: Polyester | 1H:50V | | Z: + 80%, -20% |
| KCQP: Polypropylene | 1V:35V | | |
| KCQS: Polystyrol | | | |

WARNING

\triangle (+) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

\triangle (+) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

■ ELECTRICAL PARTS LIST

| REF NO. | PART NO. | DESCRIPTION | REF NO. | PART NO. | DESCRIPTION |
|--|-------------------------------|-------------------|---------|----------|-------------|
| P. C BOARD BLOCK PART NO. | | | | | |
| | Part No. | Description | | | |
| | 1. KOP11078 | FRONT PCB ASS'Y | | | |
| | 2. KOP11077 | INPUT PCB ASS'Y | | | |
| | 3. KOP11074 | TUNER PCB ASS'Y | | | |
| | 4. KOP11076 | AMP PCB ASS'Y | | | |
| | 5. KOP11105 | POWER PCB ASS'Y | | | |
| | 6. KOP11106 | REMOCON PCB ASS'Y | | | |
| FRONT PCB BLOCK CONSISTS FOLLOWING P. C. B | | | | | |
| | · μ - COM P. C. BOARD | | | | |
| | · SP SWITCH P. C. BOARD | | | | |
| | · TONE CONTROL P. C. BOARD | | | | |
| | · MASTER VR P. C. BOARD | | | | |
| | · AV2 INPUT P. C. BOARD | | | | |
| | · POWER SWITCH P. C. BOARD | | | | |
| INOUT PCB BLOCK CONSISTS FOLLOWING P. C. B | | | | | |
| | · INPUT & C/S AMP P. C. BOARD | | | | |
| TUNER PCB BLOCK CONSISTS FOLLOWING P. C. B | | | | | |
| | · TUNER AMP P. C. BOARD | | | | |
| AMP PCB BLOCK CONSISTS FOLLOWING P. C. B | | | | | |
| | · POWER & L/R AMP BOARD | | | | |
| | · VIDEO CONTROL P. C. BOARD | | | | |
| | · POWER SUPPLY P. C. BOARD | | | | |
| | · C/S SPEAKER P. C. BOARD | | | | |
| 1. FRONT PCB ASS'Y | | | | | |
| IC71-IC74 | BVINJM4558L | IC, OP AMP | | | |
| IC81 | BVIANAM1228MT | IC, μ -COM | | | |
| IC82 | BVINJU3713D | IC DECODER | | | |
| Q701, 702 | KVTKTD1302T | T.R | | | |
| Q801-Q805 | KVTDTA144EST | T.R | | | |
| Q806, Q807 | KVTDTC144TST | T.R | | | |
| Q808, Q809 | KVTDTA144EST | T.R | | | |
| Q810 | KVTDTC144TST | T.R | | | |
| Q811 | KVTKSB811YT | T.R | | | |
| Q812, 813 | KVTDTC114YST | T.R | | | |
| Q815, 816 | KVTKSD1021T | T.R | | | |
| Q817, 818 | KVTKSB811YT | T.R | | | |
| Q819 | KVTDTA144EST | T.R | | | |
| D801 | KVD342VCF02T085 | L. E. D GREEN | | | |
| D802-810 | KVD342MCF02T085 | L. E. D RED | | | |
| D820, 821 | KVD1N4148MT | DIODE | | | |
| BN48 | KWZAAV1200BN48 | WIRE ASS'Y | | | |
| BN49 | KWZAAV1200BN49 | WIRE ASS'Y | | | |
| BN72 | KWZAAV1200BN72 | WIRE ASS'Y | | | |
| BN74 | KWZAAV1200BN74 | WIRE ASS'Y | | | |
| BN81 | KWZAAV1100BN81 | WIRE ASS'Y | | | |
| BN82 | KWZAAV1200BN82 | WIRE ASS'Y | | | |
| BN83 | KWZAAV1200BN83 | WIRE ASS'Y | | | |
| BN84 | KWZAAV1200BN84 | WIRE ASS'Y | | | |
| BN85 | KWZAAV1200BN85 | WIRE ASS'Y | | | |
| BN86 | KWZAAV1200BN86 | WIRE ASS'Y | | | |
| BN87 | KWZAAV1200BN87 | WIRE ASS'Y | | | |
| CN31 | KJP12GA19ZM | WAFER | | | |
| CN51 | KJP05GA01ZM | WAFER | | | |
| CN73 | KJP09HB60ZY | WAFER | | | |
| CN85 | KJP05GA01ZM | WAFER | | | |
| CN91 | KJP02GA89ZM | WAFER | | | |
| C836 | BCE5R5V104 | CAP, GOLD | | | |
| C837 | △ KCEA0JH102T | CAP, ELECT | | | |
| EC81 | BSR2A006Z | VR, ENCODER | | | |
| FIP1 | BFLFIPCM1551D | F. I. P | | | |
| JK41 | KJJ4M013Z | JACK, VCR | | | |
| JK42 | KJJ4M012Z | JACK, VCR | | | |
| JK43 | KJJ4M014Z | JACK, VCR | | | |
| JK71 | BJJ2E020Z | JACK, PHONE | | | |
| RS81 | BRVPA4612M00HB | SENSOR, REMOCON | | | |
| RZ81 | KRGSN5X 223J | RES, NETWORK | | | |
| RZ82 | KRGSN5X 103J | RES, NETWORK | | | |
| SW81, 82 | KSH2B003Z | SW, PUSH | | | |
| SW91 | KSH1A001ZV | SW, PUSH | | | |
| VR71 | BVVF02A104Z | VR, MOTOR | | | |
| VR72 | BVV1T01W104Y | RES, VARIABLE | | | |
| VR73, 74 | BVV2W01C104Y | RES, VARIABLE | | | |
| WF73 | KJP09GA63ZY | WAFER | | | |
| W401 | KWZAV350077 | WIRE ASS'Y | | | |
| X801 | BOX08000E200C | CRYSTAL | | | |
| 2. INPUT PCB ASS'Y | | | | | |
| IC21 | BVINJM4558L | IC, OP AMP | | | |
| IC22 | BVINJU7313L | IC, FUNC, SEL | | | |
| IC23 | BVINJU7312L | IC, FUNC, SEL | | | |
| IC25 | BVINJM4558L | IC, OP AMP | | | |
| IC31 | BVINJW1103F | IC, DOLBY | | | |
| IC32, 33 | BVINJM4558L | IC, OP AMP | | | |
| IC48 | BVINJM2279D | IC, VIDEO | | | |
| Q203, 204 | KVTKTD1302T | T.R | | | |
| Q205, 206 | KVTDTC144EST | T.R | | | |
| Q207, 208 | KVTKTD1302T | T.R | | | |
| Q301 | KVTKSC2316YT | T.R | | | |
| Q481, 482 | KVTDTA114YST | T.R | | | |
| D481-D484 | KVD1N4148MT | T.R | | | |

| REF NO. | PART NO. | DESCRIPTION | REF NO. | PART NO. | DESCRIPTION |
|---------------------------|----------------|-----------------|-------------------------|-----------------|-----------------|
| BN21 | KWZAAV1100BN21 | WIRE ASS'Y | T101 | KLI3B028Z | I. F. T, FM |
| BN31 | KWZAAV1200BN31 | WIRE ASS'Y | | | |
| BN32 | KWZAAV1200BN32 | WIRE ASS'Y | X101 | BOX07200D320C | CRYSTAL |
| | | | X102 | BVFZTB456F11 | RESONATOR |
| JK21, 22 | KJJ4R015Z | JACK, IN/OUT | X103 | BVFLZU450C4N | FILTER, CERAMIC |
| JK23, 24 | KJJ4P024Z | JACK, IN/OUT | X180 | BOX04332A200C | CRYSTAL |
| JK25 | KJJ4P023Z | JACK, IN/OUT | 4. AMP PCB ASS'Y | | |
| | | | IC51 | BVINJM4556AL | IC, OP AMP |
| JK26 | KJJ4P020Z | JACK, IN/OUT | IC52 | BVINJM4558L | IC, OP AMP |
| JK27 | KJJ4N026Z | JACK, IN/OUT | IC61, 62 | BVINJM4558L | IC, OP AMP |
| X301 | BVFZTA4.00MG | RESONATOR | | | |
| 3. TUNER PCB ASS'Y | | | | | |
| IC11 | BVILM70001 | IC, PLL | Q503-Q505 | △ KVTKTC3200GRT | T.R |
| IC12 | BVILA1836M | IC, IF/MPX | Q513-Q516 | △ | |
| IC18 | BVITDA7330BD | IC, DECODER | Q523, 524 | △ KVTKTA1275YT | T.R |
| BPF1 | KVFBPMB8 | B.P.F | Q525, 526 | △ KVTKTC3228YT | T.R |
| | | | Q531, 532 | △ KVTKTC4370AY | T.R |
| | | | Q533, 534 | △ KVTKTA1659AY | T.R |
| | | | Q545, 546 | △ KVTKTA1275YT | T.R |
| CF11, 12 | BVFE107MSHAT | FILTER, CERAMIC | Q559, 560 | KVTKTD1302T | T.R |
| CF21 | KVFSBF450BL | FILTER, CERAMIC | Q565 | KVTDTC144EST | T.R |
| | | | Q566 | KVTKTA144EST | T.R |
| Q100-Q104 | KVTKSC2785YT | T.R | Q583-Q586 | KVTKTD1302T | T.R |
| Q105, 106 | KVTKTC3192OT | T.R | Q598, 599 | | |
| Q107-Q110 | KVTKSC2785YT | T.R | Q604-Q609 | △ KVTKTC3200GRT | T.R |
| Q111 | KVTDTC114YST | T.R | Q619-Q624 | △ | |
| Q112 | KVTDTA114YST | T.R | Q634-Q636 | △ KVTKTA1275YT | T.R |
| Q113, 114 | KVTDTC114YST | T.R | Q637-Q639 | △ KVTKTC3228YT | T.R |
| Q118 | | | Q646-Q648 | △ KVTKTC4370AY | T.R |
| Q181 | KVTDTA114YST | T.R | Q649-Q651 | △ KVTKTA1659AY | T.R |
| | | | Q667-Q669 | KVTKSA1175YT | T.R |
| D102, 103 | KVD1N4148MT | DIODE | Q678 | KVTDTC144EST | T.R |
| D180 | | | Q697-Q700 | KVTKTD1302T | T.R |
| | | | Q923 | △ KVTKSC2316YT | T.R |
| CN21 | KJF03GA01ZM | WAFER | Q925 | KVTKSC2785YT | T.R |
| CN53 | KJP04GA01ZM | WAFER | Q935 | △ KVTKTA1271YT | T.R |
| CN81 | KJP12GA19ZM | WAFER | Q949 | △ KVTKSD288Y | T.R |
| CT11,12 | KCRA020S12 | CAP, VARIABLE | Q950 | △ KVTKSA614Y | T.R |
| | | | Q967, 968 | KVTKSC2785YT | T.R |
| C106 | KCQS1H471JZ | CAP, STYROLE | Q969 | KVTDTA144EST | T.R |
| C109 | KCQS1H101JZ | CAP, STYROLE | Q973-Q975 | | |
| D101 | KVDKV1236Z | DIODE, VARACTOR | Q976-Q978 | KVTDTC144TST | T.R |
| FE11 | KNVFTA4460H | TUNER PACK | Q984, 985 | KVTKSC2785YT | T.R |
| JK11 | KJJ3S006Z | TERMINAL, ANT | Q986 | KVTDTA144EST | T.R |
| BK11 | KMD1A081 | BRACKET, PCB | Q987 | KVTKTA1271YT | T.R |
| | | | Q991-Q993 | KVTDTA144EST | T.R |
| L101 | KLA4Y106Z | COIL, FILTER | Q994-Q998 | KVTDTC144EST | T.R |
| L103 | KLA2C004 | COIL, AM ANT | | | |
| L104 | KLA1B005 | COIL, LW ANT | D509, 510 | △ KVDMTZJ27BT | DIODE, ZENER |
| L105 | KLO2B008Z | COIL, AM OSC | D525, 526 | △ | |
| L106 | KLO1B002 | COIL, LW OSC | D527-D530 | KVD1N4148MT | DIODE |
| L107 | KLOA183KWZC | COIL FILTER | D545-D550 | | |
| L108, 109 | KLQB542KLZ | COIL | D566 | | |
| S101 | KST1A010Z | SW, TACT | D613-D615 | △ KVDMTZJ27BT | DIODE, ZENER |
| | | | D637-D639 | △ | |
| T100 | KLI2B103-G | I. F. T, AM | D640-D645 | KVD1N4148MT | DIODE |

| REF NO. | PART NO. | DESCRIPTION | REF NO. | PART NO. | DESCRIPTION |
|-----------|----------------|---------------|-----------------------------|-----------------|--------------------|
| D667~D675 | KVD1N4148MT | DIODE | SP51 | KJJ5P012Z | TERMINAL, SP |
| D697 | | | SP52 | KJJ5P005Z | TERMINAL, SP |
| D921, 922 | △ KVD1N4003SRT | DIODE, RECT | SP61 | KJJ5R004Z | TERMINAL, SP |
| D923 | △ KVDMTZJ6.2BT | DIODE, ZENER | | | |
| D924 | △ KVD1N4148MT | DIODE | TH91 | △ KRTNTC5D103 | THRMISTER |
| D931, 932 | △ KVD1N4003SRT | DIODE, RECT | TW91 | KJP02GA61ZP | WAFER |
| D935 | △ KVDMTZJ33BT | DIODE, ZENER | | | |
| D941, 944 | △ KVD1N4003SRT | DIODE, RECT | 5. POWER PCB ASS'Y | | |
| D949, 950 | △ KVDMTZJ6.2BT | DIODE, ZENER | BN98 | KWZAAV1200BN98 | WIRE ASS'Y |
| D971~D973 | KVD1N4148MT | DIODE | CN84 | KJP06GA03ZM | WAFER |
| D975 | | | CN99 | KJP05GA03ZM | WAFER |
| D977, 978 | | | D901 | △ BVDKBU804F | DIODE, BRIDGE |
| D984, 985 | | | | | |
| D994~D996 | | | JW81 | KWE8212120VV | WIRE, RED |
| D998 | | | JW82 | KWE8215120VV | WIRE, WHITE |
| BN51 | KWZAAV1100BN51 | WIRE ASS'Y | JW93 | KWZAAV1200JW93 | WIRE ASS'Y |
| BN53 | KWZAAV1200BN53 | WIRE ASS'Y | JW97 | KWZAAV1200JW97 | WIRE ASS'Y |
| BN54 | KWZAAV1200BN54 | WIRE ASS'Y | | | |
| BN58 | KWZAAV1200BN58 | WIRE ASS'Y | RY53 | △ KSL1A003ZW | RELAY |
| BN99 | KWZAAV1200BN99 | WIRE ASS'Y | R901, 902 | △ KRG1AJ4R7H | RES, FUSE |
| CN42 | KJP02GA01ZM | WAFER | 6. REMOCON PCB ASS'Y | | |
| CN52 | KJP04GA01ZM | WAFER | IC10 | BVIANAM1236R | IC, REMOCON |
| CN58 | KJP08GB03ZM | WAFER | C101 | KCEA1EH470T | CAP, ELECT |
| CN72 | KJP05GA01ZM | WAFER | C102, 103 | KCBS1H104ZFT | CAP, CERAMIC |
| CN74 | KJP03GA01ZM | WAFER | C104, 105 | KCBS1H101KBT | CAP, CERAMIC |
| CN83 | KJP07GA01ZM | WAFER | | | |
| CN87 | KJP02GA19ZM | WAFER | D101 | KVDAL131RD | L.E.D |
| CN93 | KJP03GA89ZM | WAFER | D102 | KVDAFP52 | L.E.D |
| CN97 | KJP03GA90ZM | WAFER | Q101 | KVTKTC3203YT | T.R |
| CN98 | KJP05GA01ZM | WAFER | R101 | KRD20TJ101T | RES, CARBON |
| C911, 912 | △ KCET80V822N | CAP, ELECT | R102 | KRD20TJ3R3T | RES, CARBON |
| C920 | △ BCKWK472MF | CAP, CERAMIC | R103 | KRD20TJ100T | RES, CARBON |
| C941, 942 | △ KCEA2EH222E | CAP, ELECT | R104 | KRD20TJ333T | RES, CARBON |
| JW91 | KWZAAV1200JW91 | WIRE ASS'Y | X101 | BSB455EB1 | RESONATOR, CERAMIC |
| L541, 542 | △ KLR9Y004Z | COIL, SPEAKER | 7. MISCELLANEOUS | | |
| L661~L663 | △ | | | | |
| PWR2 | KLT5J029ZW | TRANS, SUB | | | |
| RY51, 52 | △ BSL4A004ZU | RELAY | | | |
| RY53 | △ KSL4B003ZW | RELAY | | | |
| RY61 | △ KSL1A007ZE | RELAY | F901 | △ KBA2C4000TLE | FUSE(T4A, 250V) |
| RY62 | △ BSL4A004ZU | RELAY | F903, 904 | △ KBA2C8500NMMU | FUSE(8.5A, 250V) |
| RY92 | KSL1A007ZE | RELAY | | | |
| | | | | | |
| R509, 510 | △ KRG1AN562H | RES, MATAL | | | |
| R537~R540 | △ KRF5EKR22 | RES, MATAL | | | |
| R541, 542 | △ KRG1AN4R7H | RES, MATAL | | | |
| R613~R615 | △ KRG1AN100H | RES, MATAL | | | |
| R541, 542 | △ KRG1AN562H | RES, MATAL | | | |
| R655~R660 | △ KRF5EKR22 | RES, MATAL | | | |
| R661~R663 | △ KRG1AN4R7H | RES, MATAL | | | |
| R664~R666 | △ KRG1AN100H | RES, MATAL | | | |