

TEAC



SERVICE MANUAL

AG-D8900

AV Digital Surround Receiver

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NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- △ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [] mark can be used only with the version designated.
[J]: JAPAN [US]: U.S.A. [C]: CANADA

注 意

- プリント基板図は部品面を示しています。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。回路図を参照してください。
- △印は安全重要部品です。交換する時は必ず指定の部品を使用してください。
- 仕向先
[J]: JAPAN [US]: U.S.A. [C]: CANADA

SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the \triangle (*) symbol parts are critical for safety. Replace only with parts number specified.
2. 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 specified replacements.
Examples :RF converters, tuner units, antenna selectswitches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially :
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers(insulating barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. 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.

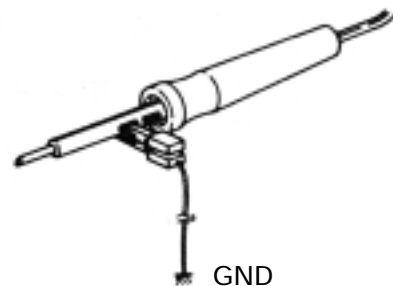
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions.

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.

1. 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.
2. 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 mechanical parts and the base.
3. 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.



4. 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.
5. Keep safety for hazardous invisible Laser Radiation, DO NOT watch the Laser Beam (Objective lens) directly.
6. 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.

SPECIFICATIONS

Amplifier Section

Surround Output Power (0.9 % THD, 1 kHz, 8 ohms):

100 + 100 watts (Front)
100 watts (Center)
100 + 100 watts (Rear)

Delay Time:

DOLBY DIGITAL: REAR 0 – 15 ms
CENTER 0 – 5 ms
DOLBY PRO LOGIC: REAR 15 – 30 ms

Audio Input Sensitivity/Impedance:

*LINE: 220 mV/47 k ohms

Output Level/Impedance:

CD-R/TAPE REC: 200 mV/2.2 k ohms

Frequency Response:

*LINE: 20 Hz – 65 kHz, +1/ –3 dB

Signal-to-Noise Ratio:

*LINE: 95dB (IHF-A)

Tone Control:

BASS: ± 10 dB at 100 Hz
TREBLE: ± 10 dB at 10 kHz

Digital Audio Section

Sampling Frequency: 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

DIGITAL Input Level/Impedance:

DIGITAL 1, 2 (OPTICAL): –15 dBm — –21 dBm
DIGITAL 3 (COAXIAL): 0.5 Vp-p / 75 ohms

FM Tuner Section

(Without notes 100.1 MHz, 65 dBf)

Tuning Range:

87.5 MHz – 108.0 MHz (50 kHz steps, [us/c]:100kHz steps)

Usable Sensitivity (IHF):

Mono: 11.2 dBf

50 dB Quieting Sensitivity:

Mono: 15.3 dBf
Stereo: 38.5 dBf

Capture Ratio: 2.0 dB

Image Rejection Ratio: 80 dB ([us/c]: 45dB)

AM Suppression Ratio: 55 dB

Total Harmonic Distortion (1 kHz):

Mono: 0.4%
Stereo: 0.5%

Frequency Response: 30 Hz – 15 kHz, +1/ –1.5 dB

Stereo Separation (1 kHz): 40 dB

Signal-to-Noise Ratio:

Mono: 75 dB
Stereo: 70 dB

AM Tuner Section

Tuning Range:

522 kHz – 1,620 kHz (10 kHz steps)
539 kHz – 1,720 kHz (10 kHz steps: [us/c])

Usable Sensitivity: 55 dB/m

Total Harmonic Distortion: 0.8% at 85 dB/m

Signal-to-Noise Ratio: 45 dB at 85 dB/m

Video Section

Input Sensitivity/Impedance: 1.0 Vp-p/75 ohms

Output Level/Impedance: 1.0 Vp-p/75 ohms

General

Power Requirements:

[E/UK] : 230V AC, 50Hz
[US/C] : 120V AC, 60Hz
[J] : 100V AC, 50/60Hz

Power Consumption:

[E/UK] : 300W
[US/C] : 2.8A
[J] : 160W

AC Outlets:

Switched x 2, Total 100 W max. (1 A max.)
(U.S.A./Canada model)

Dimensions (W x H x D)

435 x 165 x 350 mm (17-1/8" x 6-1/2" x 13-3/4")

Weight (net):

[E/UK] : 9.5kg
[US/C] : 9.4kg(20-11/16lb)
[J] : 9.4kg

Standard Accessories:

AM Loop Antenna x 1
FM T-type Antenna x 1[E/uk]
FM T-type Antenna x 1
Remote Control Unit (UR-417) x 1

* LINE means CD, CD-R/TAPE, VCR/VIDEO 1, DBS/VIDEO 2, DVD/VIDEO 3 and AUX/VIDEO 4.

< Improvements may result in specifications and features changing without notice.

< Illustrations may differ slightly from production models.

仕 様

■アンプ部

サラウンド出力 (0.9% THD, 1kHz, 6Ω)
フロント 100W+100W
センター 100W
リア 100W+100W

ディレイタイム
ドルビーデジタル リア : 0~15ms
センター : 0~5ms
ドルビープロロジック リア : 15~30ms

周波数特性 * ライン : 20Hz~65kHz, +1/-3dB
SN比 * ライン : 95dB (IHF-A)
入力感度/インピーダンス * ライン : 220mV/47kΩ
出力レベル/インピーダンス
CD-R/TAPE REC : 200mV/2.2kΩ

トーンコントロール BASS : ±10dB (100Hz)
TREBLE : ±10dB (10kHz)

■デジタルオーディオ部

サンプリング周波数 32kHz, 44.1kHz, 48kHz, 96kHz
デジタル入力レベル/インピーダンス
DIGITAL 1, 2 (光) -15dBm~-21dBm
DIGITAL 3 (同軸) 0.5Vp-p/75Ω

■FMチューナー部

受信周波数 76.0MHz~90.0MHz (100kHzステップ)
感度 (IHF) モノ : 11.2dBf
50dBクワイティング感度
モノ 15.3dBf
ステレオ 38.5dBf

キャプチャーレシオ 2.0dB
イメージ妨害比 45dB
AM抑圧比 55dB

高調波歪み率 (1kHz)
モノ 0.4%
ステレオ 0.5%

周波数特性 30Hz~15kHz, +1/-1.5dB
ステレオセパレーション (1kHz) 40dB
S/N比 (1kHz)
モノ 75dB
ステレオ 70dB

■AMチューナー部

受信周波数 522kHz~1,620kHz (9kHzステップ)
感度 55dB/m
高調波歪み率 0.8% (85dB/m)
S/N比 45dB (85dB/m)

■ビデオ部

入力感度/インピーダンス 1.0Vp-p/75Ω
出力レベル/インピーダンス 1.0Vp-p/75Ω

■共通

消費電力 160W
外形寸法 (mm) 435 (W) x 165 (H) x 350 (D)
質 量 9.4kg

■付属品

リモコン (UR-417)
リモコン用乾電池 (単4) x 2本
AMループアンテナ
FM室内アンテナ
取扱説明書
保証書

* ライン : CD, CD-R/TAPE, VCR/VIDEO1, DBS/VIDEO2,
DVD/VIDEO3, AUX/VIDEO4

仕様および外観は改善のため予告なく変更することがあります。

DTSは米国Digital Theater Systems, Inc.の商標です。

ドルビーラボラトリーズからの実施権に基づき製造されています。ドルビー、DOLBY、AC-3、プロロジック及びダブルD記号はドルビーラボラトリーズの商標です。未公開著作物。著作権1992-1997年ドルビーラボラトリーズ。不許複製。

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

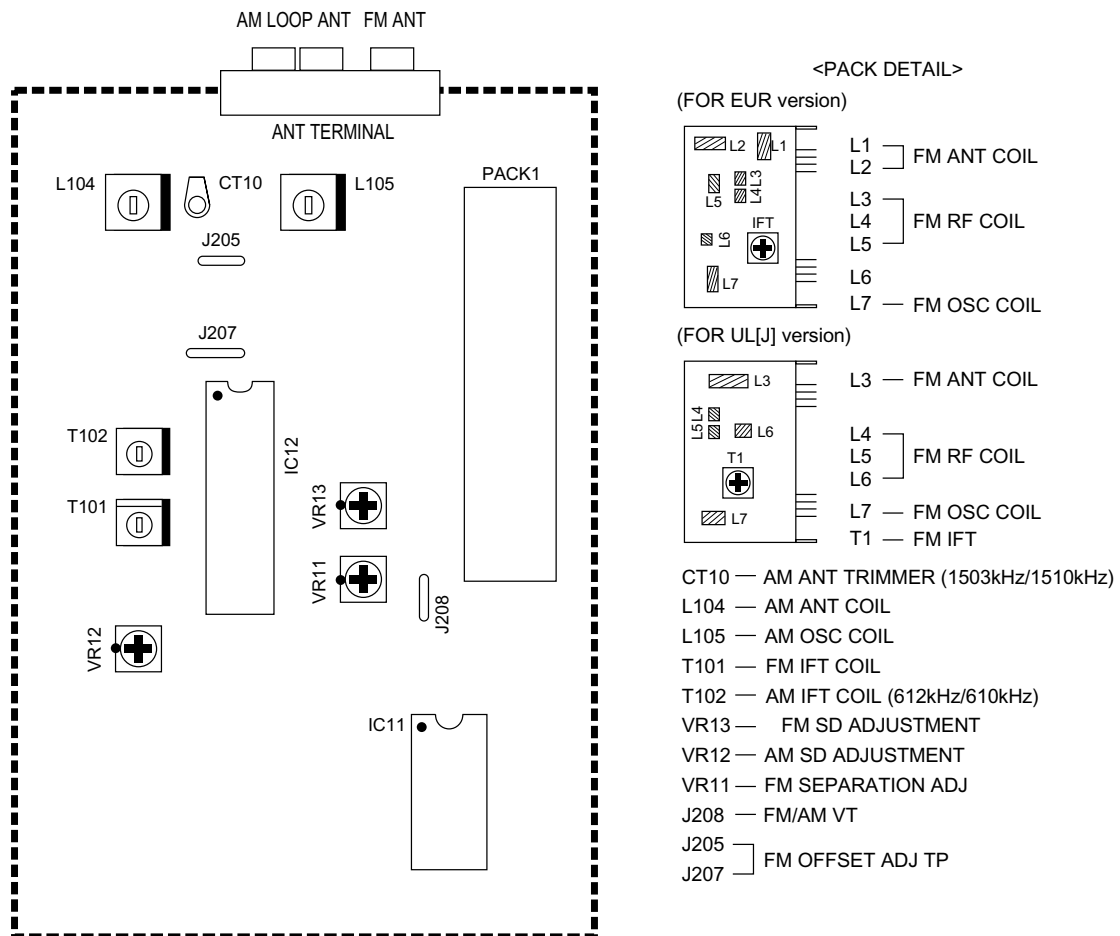
AM Signal Generator
 FM Signal Generator
 Oscilloscope
 VTVM(AC, DC)
 Test loop antenna (AM Adjustment)
 Dummy antenna (FM Adjustment)
 Distortion analyser

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.

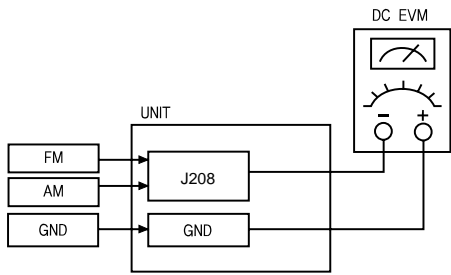
| Band \ Item | Modulation | Modulation frequency |
|-------------|--|----------------------|
| AM | 30% | 400Hz |
| FM | 100% (40 kHz Dev.) [E/UK] 100% (75 kHz Dev.) [US/J] | 400Hz |

■ ADJUSTMENT POINT



1. TUNING FREQUENCY RANGE ADJUSTMENTS

(FM) DC VOLTMETER CONNECT TO TEST POINT J208 and GND

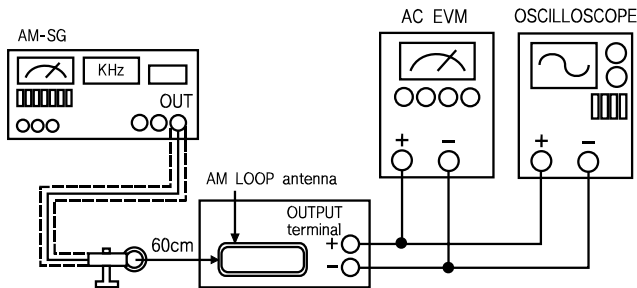


| NO. | Band | Frequency | Adjust for | Adjustment |
|-----|--------|------------|------------|------------|
| 1 | FM | 87.50MHz | 1.6V | L7 |
| | [J] | [76.00MHz] | [1.6V] | [L7] |
| 2 | AM | 530 kHz | 1V | L105 |
| | [US/C] | [530 kHz] | [1V] | [L105] |

2. AM TRACKING ADJUSTMENT

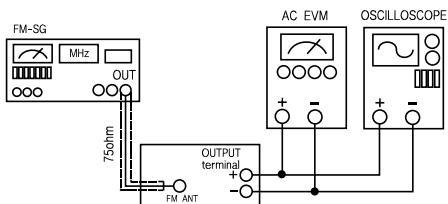
Signal Generator Connects to the AM ANT. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form of scope to be maximum.

| BAND | Step | Frequency | Adjust for | Adjustment |
|------|-------------|-------------------------------------|--|--------------------------|
| AM | 1 [US/C] | 610 kHz [610 kHz] | Maximum sensitivity Maximum sensitivity | T102, L104 T102, L104 |
| | 2 [US/C] | 1510 kHz [1510 kHz] | Maximum sensitivity Maximum sensitivity | CT10 CT10 |
| | 3 | Repeat steps 1 and 2 several times. | | |



3. FM-RF ADJUSTMENT

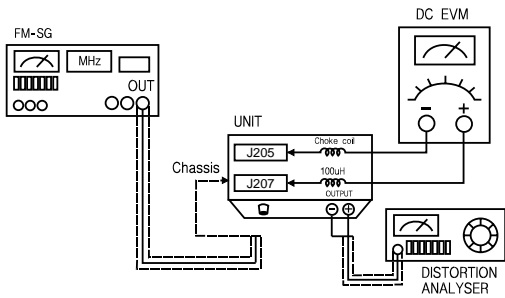
Signal Generator Connect to FM ANT JACK (FM IN) through the dummy.



| NO. | Frequency | Adjust for | Adjustment |
|-----|------------------------------|---------------------|------------|
| 1 | 90.10MHz | Maximum Sensitivity | L3, L5, L6 |
| | [J] [77.00MHz] | Maximum Sensitivity | L3, L5, L6 |
| 2 | Repeat step 1 several times. | | |

4. FM MONO DISTORTION ADJUSTMENT

DC VOLT METERConnect to J205 (-), J207 (+) through the choke coil (100uH).
 Signal GeneratorConnect to FM ANT Jack (FM IN) through the dummy.
 Distortion MeterConnect to the output.



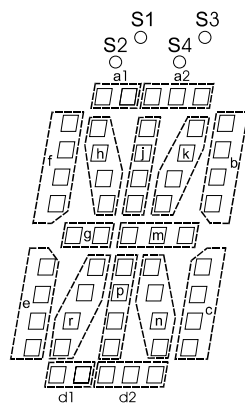
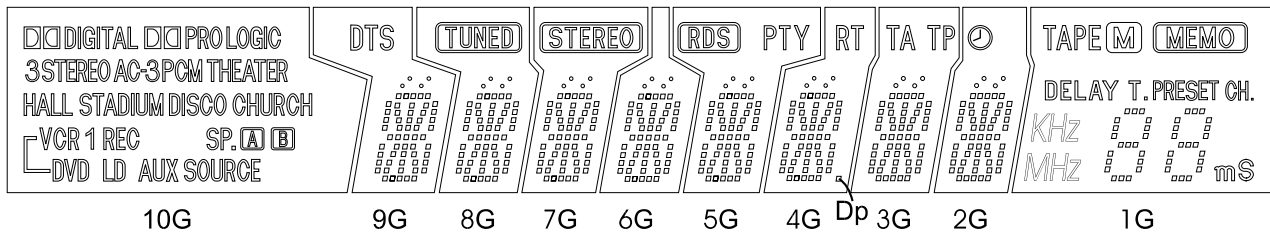
| NO. | Frequency | Adjust for | Adjustment |
|-----|-------------------------------------|----------------------------------|------------|
| 1 | 100.10MHz | DC Voltmeter 0V | T101 |
| [J] | [83.10MHz] | | |
| 2 | 100.10MHz | DC Voltmeter 0V Minimum T.H.D | T101 |
| [J] | [83.10MHz] | | |
| 3 | Repeat steps 1 and 2 several times. | | |

5. FM/AM AUTO STOP LEVEL ADJUSTMENT

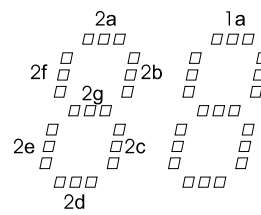
FM Signal GeneratorConnect to FM ANT Jack (FM IN) through the dummy.
 AM Signal GeneratorConnect to AM ANT. Coil through the Loop antenna.

| BAND | Step | Signal Generator | Adjust for | Adjustment |
|------|--------|------------------|--|------------|
| AM | 1 | 990KHz 82dB | <input type="checkbox"/> TUNED Display ON | VR12 |
| | [US/C] | [990KHz] | <input type="checkbox"/> TUNED Display OFF | |
| FM | 1 | 100.1MHz 32dB | <input type="checkbox"/> TUNED Display ON | VR13 |
| | [J] | (83.10MHz 32dB) | <input type="checkbox"/> TUNED Display OFF | |
| | 2 | 100.1MHz 31dB | <input type="checkbox"/> TUNED Display OFF | VR13 |
| | [J] | (83.10MHz 32dB) | | |

FIP DISPLAY



(2G~9G)

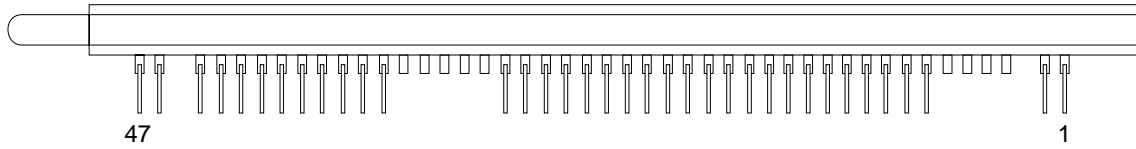


(1G)

ANODE CONNECTION

| | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G |
|-----|--------------|-----|-------|--------|----|----|-----|----|----|------------|
| P1 | SOURCE | d2 | d2 | d2 | d2 | d2 | d2 | d2 | d2 | kHz |
| P2 | AUX | d1 | d1 | d1 | d1 | d1 | d1 | d1 | d1 | 1d |
| P3 | LD | e | e | e | e | e | e | e | e | 1e |
| P4 | DVD | r | r | r | r | r | r | r | r | 1c |
| P5 | VCR 1 | p | p | p | p | p | p | p | p | 1g |
| P6 | REC | n | n | n | n | n | n | n | n | 1f |
| P7 | ┌ | c | c | c | c | c | c | c | c | 1b |
| P8 | SP. | f | f | f | f | f | f | f | f | 1a |
| P9 | A | g | g | g | g | g | g | g | g | M |
| P10 | B | m | m | m | m | m | m | m | m | 2d |
| P11 | CHURCH | h | h | h | h | h | h | h | h | 2e |
| P12 | DISCO | j | j | j | j | j | j | j | j | 2c |
| P13 | STADIUM | k | k | k | k | k | k | k | k | 2g |
| P14 | HALL | b | b | b | b | b | b | b | b | 2f |
| P15 | THEATER | a2 | a2 | a2 | a2 | a2 | a2 | a2 | a2 | 2b |
| P16 | PCM | a1 | a1 | a1 | a1 | a1 | a1 | a1 | a1 | 2a |
| P17 | AC-3 | S1 | S1 | S1 | S1 | S1 | S1 | S1 | S1 | DELAY.T |
| P18 | STEREO | S2 | S2 | S2 | S2 | S2 | S2 | S2 | S2 | PRESET.CH. |
| P19 | 3 | S3 | S3 | S3 | S3 | S3 | S3 | S3 | S3 | MEMO |
| P20 | □□ | S4 | S4 | S4 | S4 | S4 | S4 | S4 | S4 | TAPE |
| P21 | DIGITAL | / | / | / | / | / | RDS | Dp | TA | Ⓐ |
| P22 | □□ PRO LOGIC | DTS | TUNED | STEREO | / | / | PTY | RT | TP | mS |

PIN CONNECTION



| | | | | | | | | | | | | | | | |
|------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Connection | F2 | F2 | NP | NX | NX | NX | NX | P22 | P21 | P20 | P19 | P18 | P17 | P16 | P15 |

| | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| Pin No. | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| Connection | P14 | P13 | P12 | P11 | P10 | P9 | P8 | P7 | P6 | P5 | P4 | P3 | P2 | P1 | NX |

| | | | | | | | | | | | | | | | |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|
| Pin No. | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| Connection | NX | NX | NX | NX | 1G | 2G | 3G | 4G | 5G | 6G | 7G | 8G | 9G | 10G | NP |

| | | |
|------------|----|----|
| Pin No. | 46 | 47 |
| Connection | F1 | F1 |

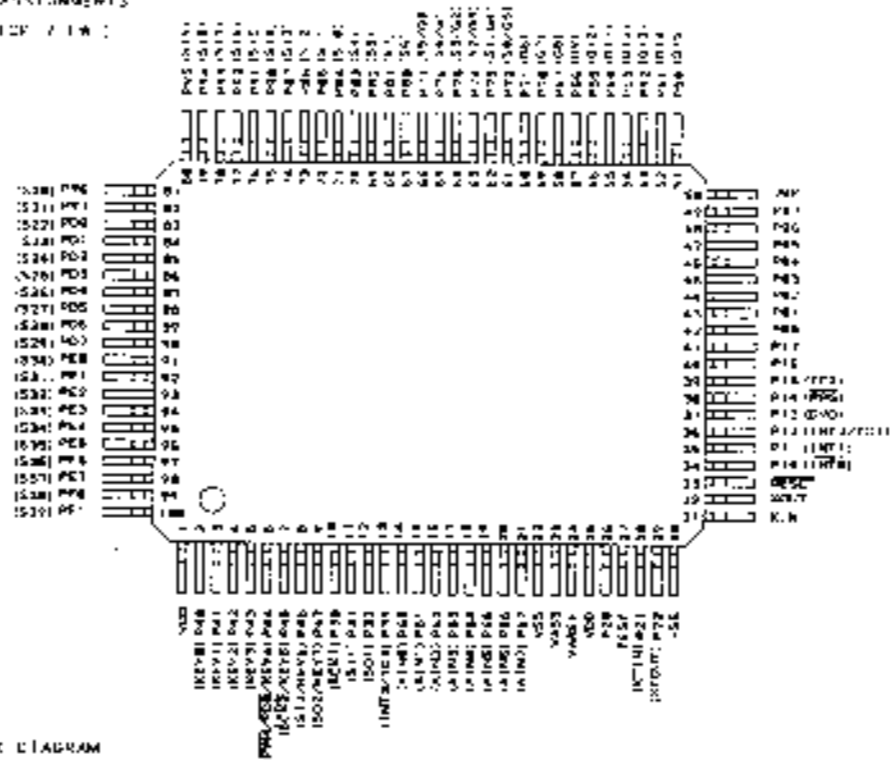
IC PIN FUNCTION (u-COM : ANAM1308AT,O.T.P :TMP87PM78F) : IC71

| PIN No. | SYMBOL | I/O | DESCRIPTION |
|---------|------------------|-----|--|
| 1,25 | VDD | - | Power Supply Port(+5V) |
| 2,3 | Function SW1,SW2 | I | Function Encoder Control Port |
| 4 | Speaker ON/OFF | O | Front Speaker Relay Drive Port("H") |
| 5 | NC | - | Not Use(No connection) |
| 6 | DSP Reset | O | Reset (Initial Clear) Port for YSS912 |
| 7 | Surr. CLK | O | Surr. CLK Output Port |
| 8 | DATA OUT | O | Data Output Port for YSS912 |
| 9 | Surr. DATA | O | Surr. DATA Output Port |
| 10 | CS | O | Chip Selector Port for YSS912 |
| 11 | CS | O | Chip Selector Port for AK4112 |
| 12 | CSBN | O | Sub DSP Chip Selector for YSS912 |
| 13,14 | RDS CLK/DATA | I | RDS IC(SA6579TV1) CLK/DATA Port |
| 15 | Stereo IN | I | Stereo Display Control Port("L") |
| 16 | Tuned IN | I | Tuned Display Control Port("L") |
| 17 - 21 | KEY Matrix | I | Resistor Divide Key Control Input (17,18 Pin: NOT USE) |
| 22,30 | Vss | - | Device GND Port |
| 23 | Vass | - | Device Analog GND Port |
| 24 | Varef | - | A/D Converter Reference Voltage |
| 26 | BACKUP | I | Back Up Mode Control Input |
| 27 | TEST | - | NC(GND) |
| 28,29 | VOLUME UP/DOWN | I | Master Volume Up/Down Control Port |
| 31 | X IN | I | 8MHz Crystal Connection Port |
| 32 | X OUT | O | |
| 33 | RESET (L) | I | Reset Input |
| 34 | REMOTE IN | I | Remote Control Sensor Data Input |
| 35 | BUS IN(NC) | I | System Remote Control Input(No Connection)) |
| 36 | HEADPHONE IN | O | Headphone JACK INPUT("H") - Connet to GND |
| 37 | E.VOL.DATA | O | Electronic Vol. IC(M62446FP) DATA/CLK/STB Port |
| 38 | E.VOL.CLK | I | |
| 39 | E.VOL.CE | O | |
| 40 | PLL.DATA IN | I | PLL IC (LC72131) DATA Input Port |
| 41 | PLL.CE | O | PLL IC (LC72131) Chip Enable Control Port |
| 42 | DATA 3 | O | Function IC Data Input Port |
| 43 | CLK 3 | O | Func./PLL IC CLK Control Port |
| 44 | FUNC. STB | O | Function Strobe Control Output |
| 45 | FUNC. MUTE | O | Function Mute Control Output("H") |
| 46 | SURR. MUTE | O | Surrounc Mute Control Output("H") |
| 47 | Power ON/OFF | O | Power ON/OFF Control Port("H") |
| 48 | SURR. H | O | Surr. ON/OFF Contol Port("H") |
| 49 | PROTECT IN | I | Protect Input Port("L") |
| 50 | FIP Vkk | - | FIP (FLT) -28V Negative Power Supply For FIP Blinking |
| 51 - 60 | FIP Grid | O | FIP (FLT) Grid Control Outputs |
| 61 - 82 | FIP Segment | O | FIP (FLT) Segment Control Outputs |
| 83 - 86 | Option | I | Area/Function Option Ports |
| 87 - 94 | N.C | - | Not Use(No connection) |
| 95 | SUB. LED | O | Subwoofer LED Drive Port |
| 96 | MUTE LED | O | MUTE LED Drive Port |
| 97 - 99 | VIDED A/B/C | O | Video IC(NJM2296M/LA7952) Control Ports |
| 100 | N.C | - | Not Use(No connection) |

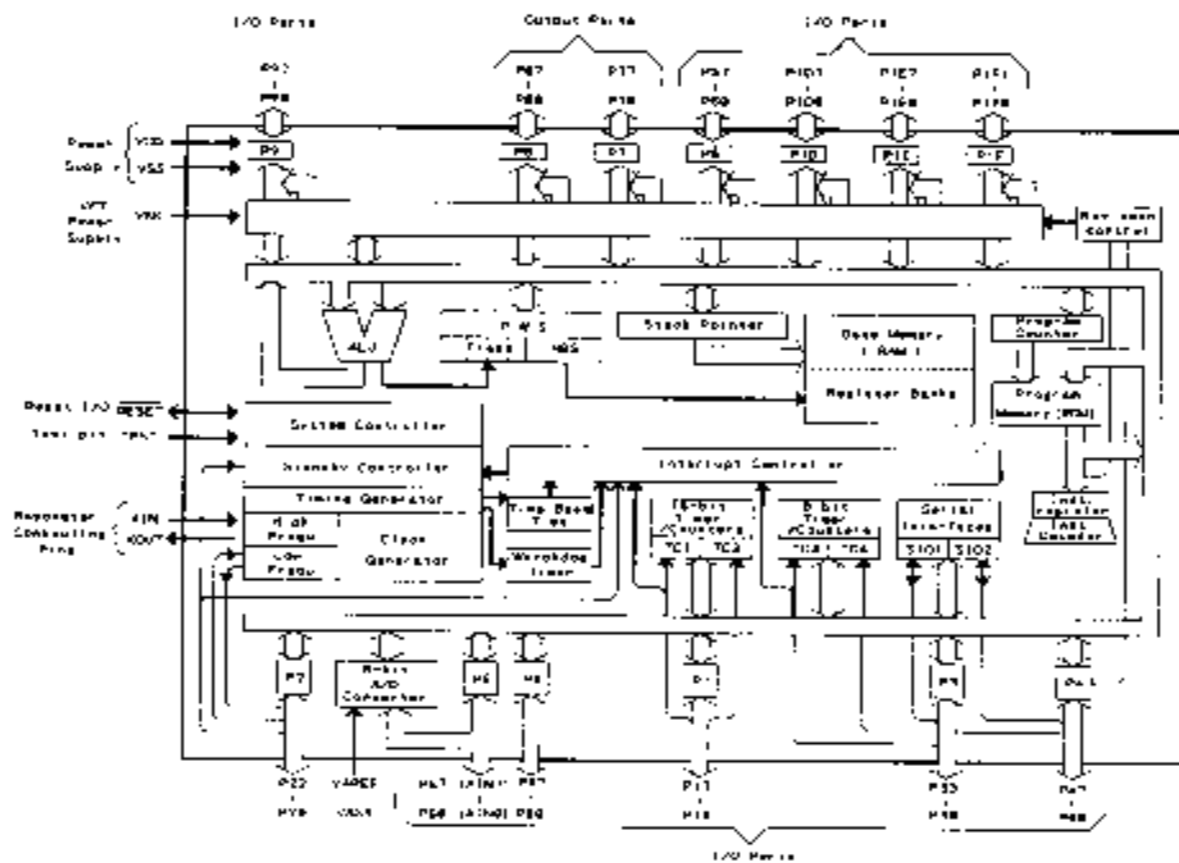
Micom IC Pin Assignment & Block Diagram

■ PIN ASSIGNMENTS

TOP VIEW :



■ BLOCK DIAGRAM



Dolby Digital/Pro Logic DTS DECODER (YSS912C:INPUT IC43)

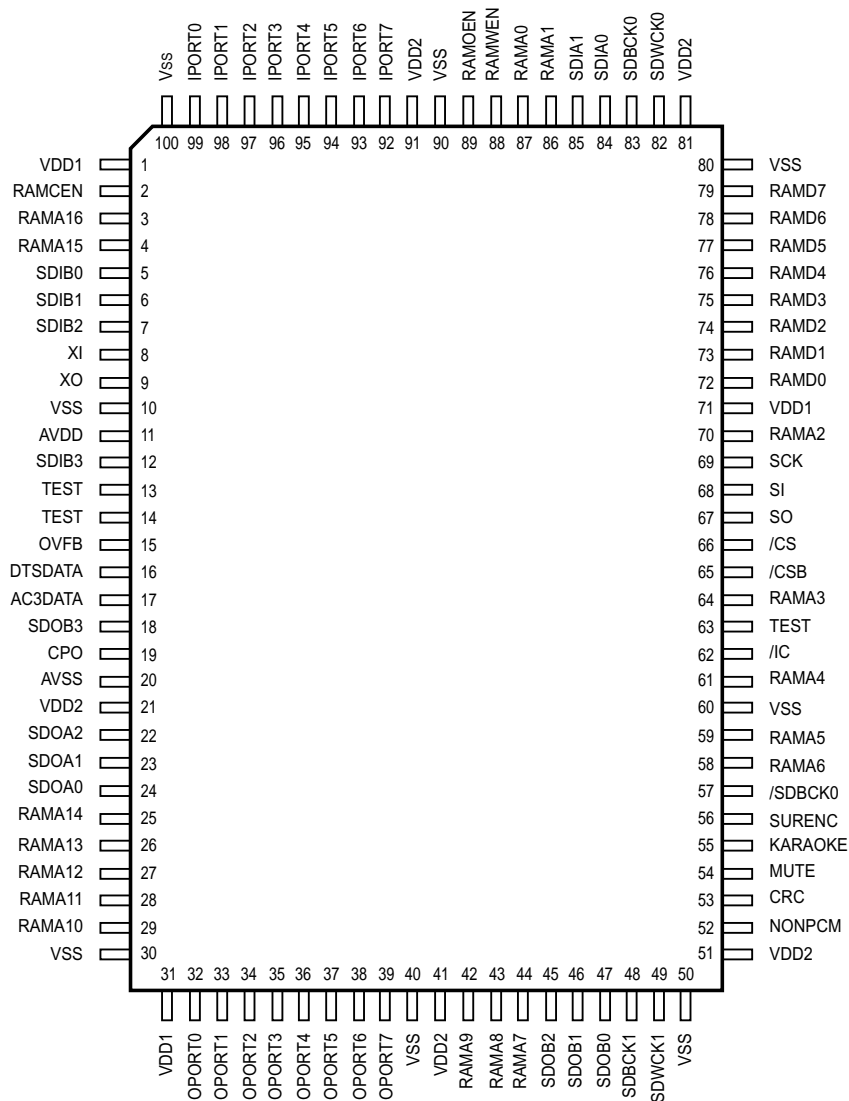
| PIN No. | SYMBOL | I/O | DESCRIPTION |
|--------------------|------------|-----|--|
| 1,31,71 | VDD1 | - | +5V Power Supply(for I/Os) |
| 2 | RAMCEN | O | External SRAM interface /CE |
| 3 | RAMA16 | O | External SRAM interface address 16 |
| 4 | RAMA15 | O | External SRAM interface address 15 |
| 5 | SDIB0 | I+ | PCM input 0 to Sub DSP(not use) |
| 6 | SDIB1 | I+ | PCM input 1 to Sub DSP(not use) |
| 7 | SDIB2 | I+ | PCM input 2 to Sub DSP(not use) |
| 8 | XI | I+ | Crystal oscillator connection(12.288MHz) |
| 9 | XO | O | |
| 10, 30 | VSS | - | Ground |
| 11 | AVDD | - | +3.3V power supply (for PLL circuit) |
| 12 | SDIB3 | I+ | PCM input 3 to Sub DSP(not use) |
| 13 | TEST | - | Test terminal(to be open in normal use) |
| 14 | TEST | - | Test terminal(to be open in normal use) |
| 15 | OVFB | O | Detection of overflow at Sub DSP (not use) |
| 16 | DTSDATA | O | Detection of DTS data (not use) |
| 17 | AC3DATA | O | Detection of AC-3 data (not use) |
| 18 | SDOB3 | O | PCM output from Sub DSP |
| 19 | CPO | A | Output terminal for PLL,to be connected to ground through the external analog filter circuit |
| 20 | AVSS | - | Ground for PLL circuit) |
| 21,41,51,81,91 | VDD2 | - | +3.3V power supply (for core logic) |
| 22 | SDOA2 | O | PCM output from Main DSP (C,LFE) |
| 23 | SDOA1 | O | PCM output from Main DSP (LS,RS) |
| 24 | SDOA0 | O | PCM output from Main DSP (L,R) |
| 25 ~ 29 | RAMA 14~10 | O | External SRAM interface address 14~10 |
| 32 ~ 35 | OPORT 0~3 | O | Output port for general purpose |
| 36 ~ 39 | OPORT 4~7 | O | Output port for general purpose (not use) |
| 40,50,60,80,90,100 | VSS | - | Ground |
| 42 ~ 44 | RAAM 9~7 | O | External SRAM interface address 9~7 |
| 45 ~ 47 | SDOB 2~0 | O | PCM output from Sub DSP |
| 48 | SDBCK1 | I+ | Bit clock input for SDOA,SDIB,SDOB (not use) |
| 49 | SDWCK1 | I+ | Word clock input for SDOA,SDIB,SDOB (not use) |
| 52 | NONPCM | O | Detection of non-PCM data (not use) |
| 53 | CRC | O | Detection of AC-3 CRC error (not use) |
| 54 | MUTE | O | Detection of auto mute (not use) |
| 55 | KARAOKE | O | Detection of AC-3 karaoke data (not use) |
| 56 | SURENC | O | Detection of AC-3 2/0 mode Dolby surround encoded input (not use) |
| 57 | /SDBCK 0 | O | Inverted SDBCK0 clock output (refer to Block diagram) |
| 58 | RAMA6 | O | External SRAM interface address 6 |
| 59 | RAMA5 | O | External SRAM interface address 5 |
| 61 | RAMA4 | O | External SRAM interface address 4 |
| 62 | /IC | Is | Initial clear |
| 63 | TEST | - | Test terminal (to be open in normal use) |
| 64 | RAMA3 | O | External SRAM interface address 3 |
| 65 | /CSB | Is+ | Sub DSP Chip select |
| 66 | /CS | Is | Microprocessor interface Chip select input |
| 67 | SO | Ot | Microprocessor interface serial data output |
| 68 | SI | Is | Microprocessor interface /Sub DSP Serial data input |
| 69 | SCK | Is | Microprocessor interface /Sub DSP clock input |

| PIN No. | SYMBOL | I/O | DESCRIPTION |
|---------|-----------|------|--|
| 70 | RAMA2 | O | External SRAM interface address 2 |
| 72 - 79 | RAMD0-7 | I+/O | External SRAM interface data (STREAM0-7 output when External SRAM is not in use) |
| 82 | SDWCK0 | I | Word clock input for SDIA, SDOA, SDIB, SDOB |
| 83 | SDBCK0 | I | Bit clock input for SDIA, SDOA, SDIB, SDOB |
| 84 | SDIA0 | I | AC-3 Bitstream (or PCM) data input for Main DSP |
| 85 | SDIA1 | I | AC-3 Bitstream (or PCM) data input for Main DSP |
| 86 | RAMA1 | O | External SRAM interface address 1 |
| 87 | RAMA0 | O | External SRAM interface address 0 |
| 88 | RAMWEN | O | External SRAM interface /WE |
| 89 | RAMOEN | O | External SRAM interface /OE |
| 92 - 99 | IPOINT7-0 | I+ | Input port for general purpose (not use) |

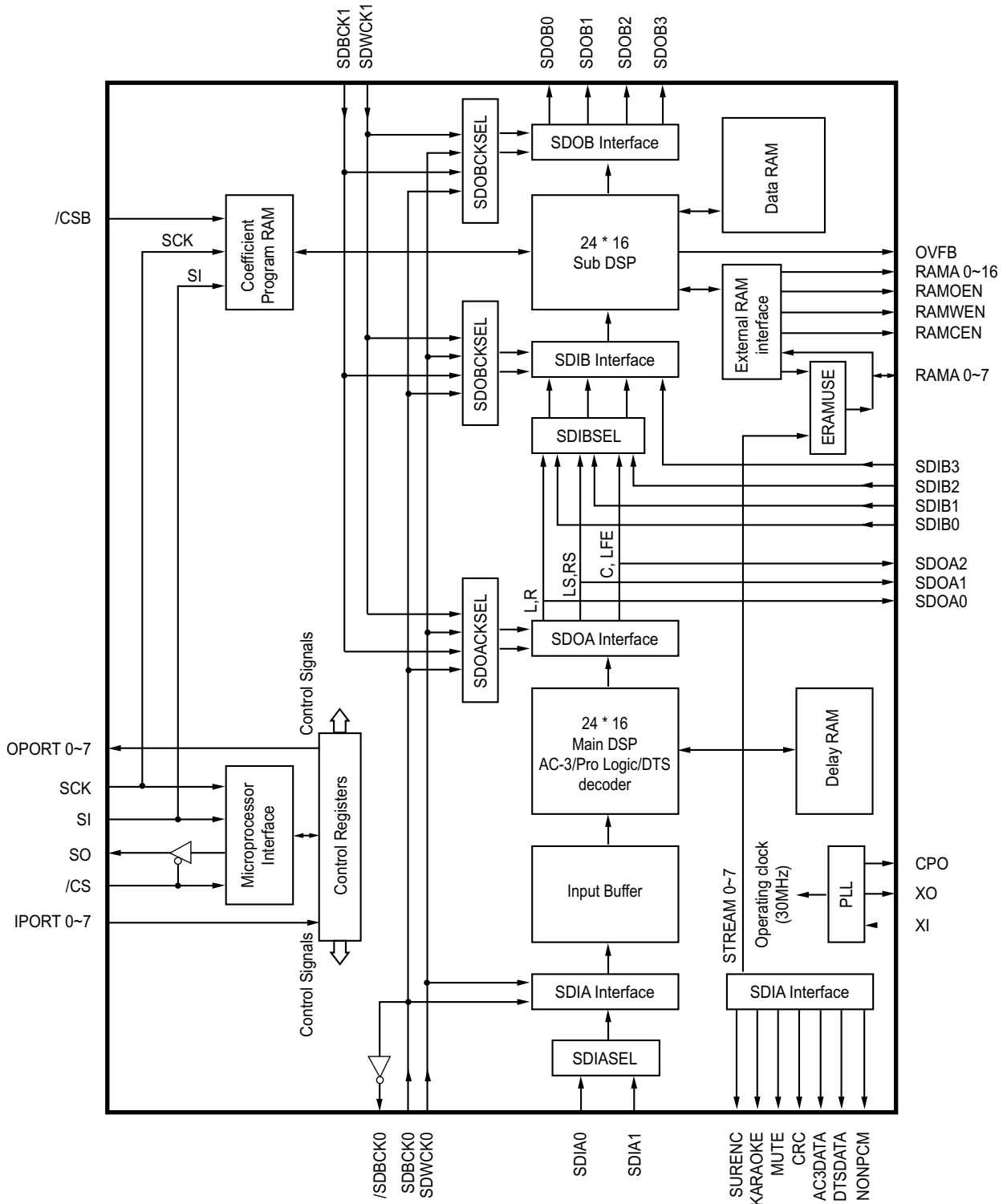
NOTE) Is: Schmidt trigger input terminal
O: Digital output terminal
A: Analog terminal

It: Input terminal with pull-up resistor
Ot: Tri-state digital output terminal

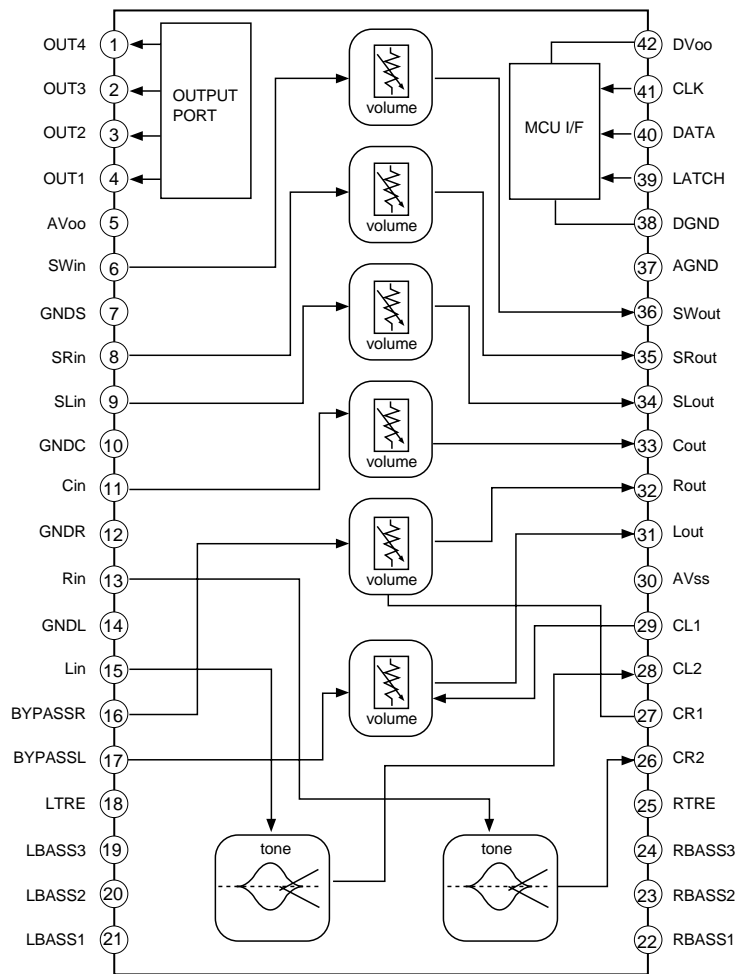
YSS912C PIN CONFIGURATION



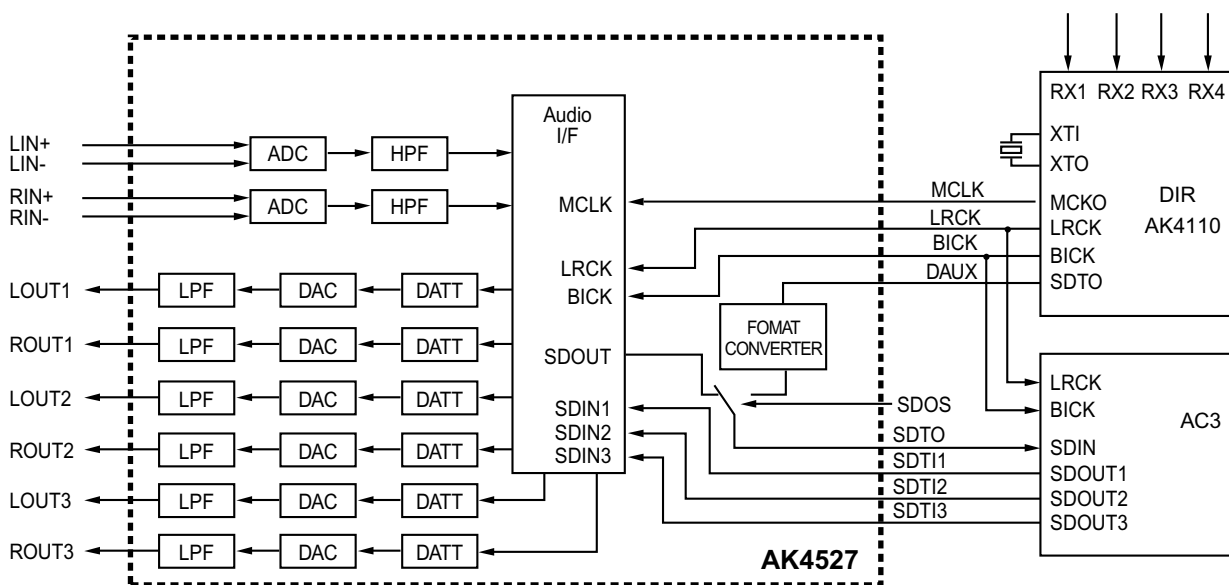
YSS912C BLOCK DIAGRAM



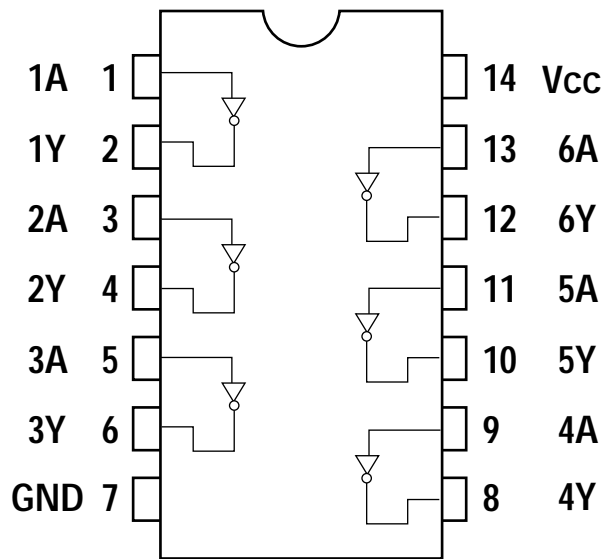
M62446FP (ELECTRONIC VOLUME/INPUT IC31)



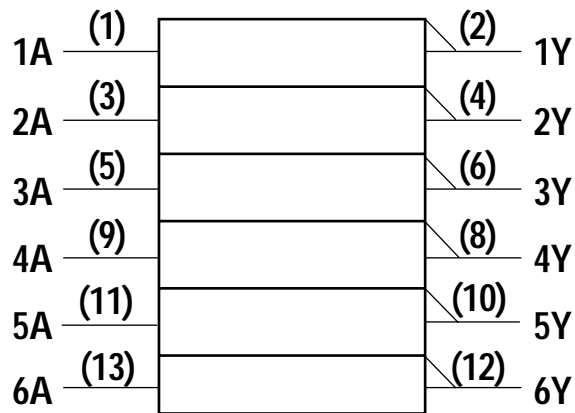
AV4527VQ (ADC/DAC/INPUT IC42)



■ PIN ASSIGNMENT (74HCU04AFN : IC40)



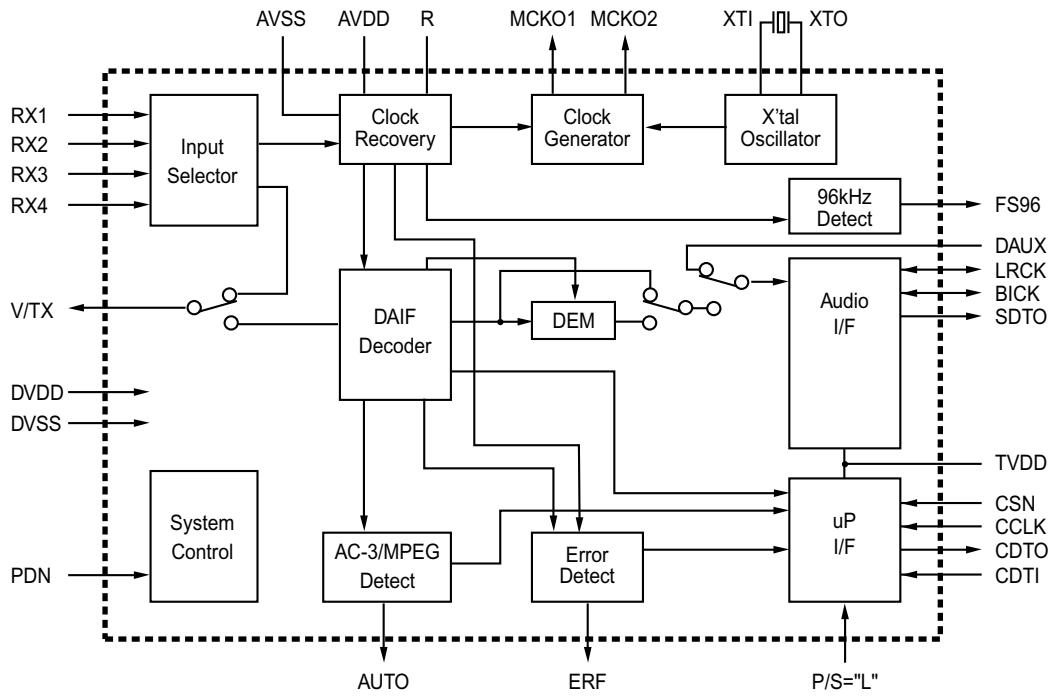
■ LOGIC SYMBOL



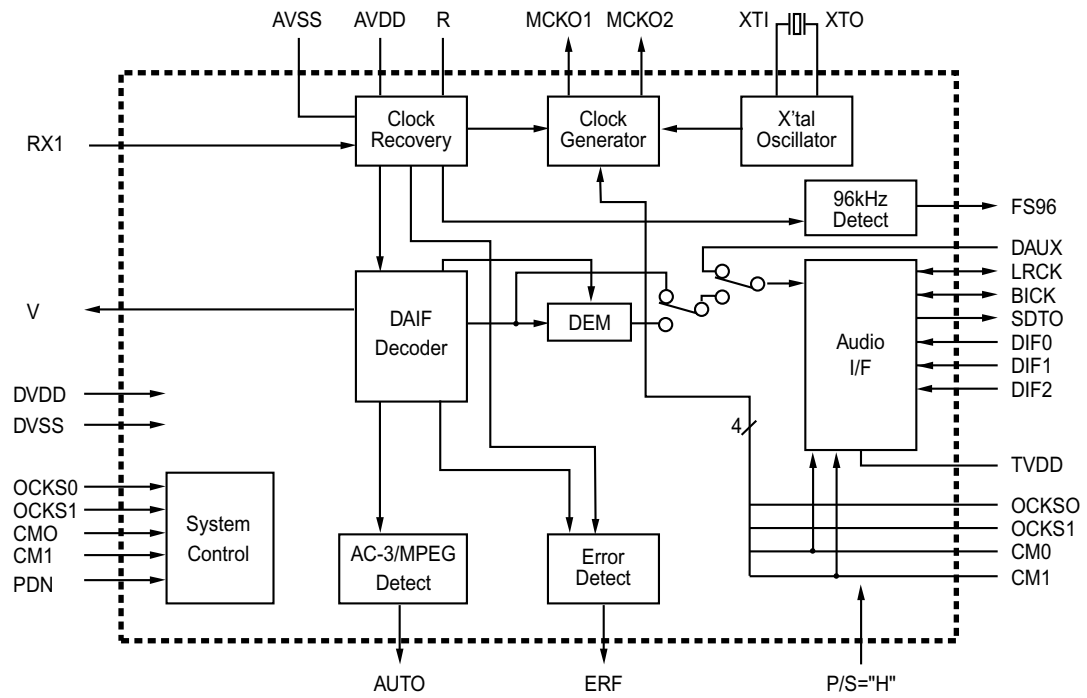
■ TRUTH TABLE

| A | Y |
|---|---|
| L | H |
| H | L |

AK4112AVF (DIR/INPUT IC41)

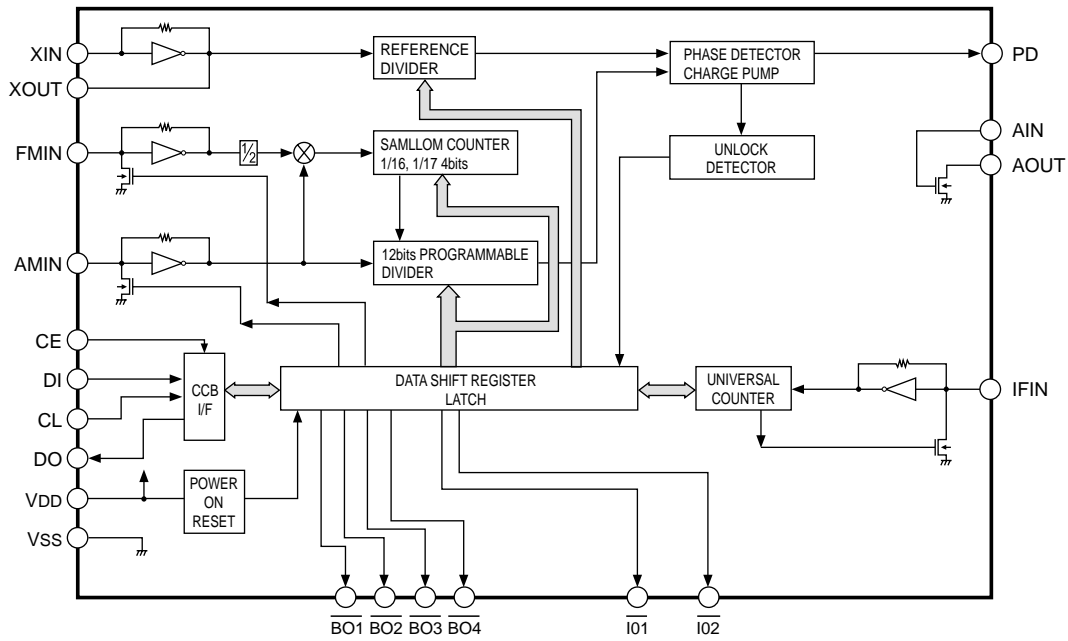


[Serial Control Mode]

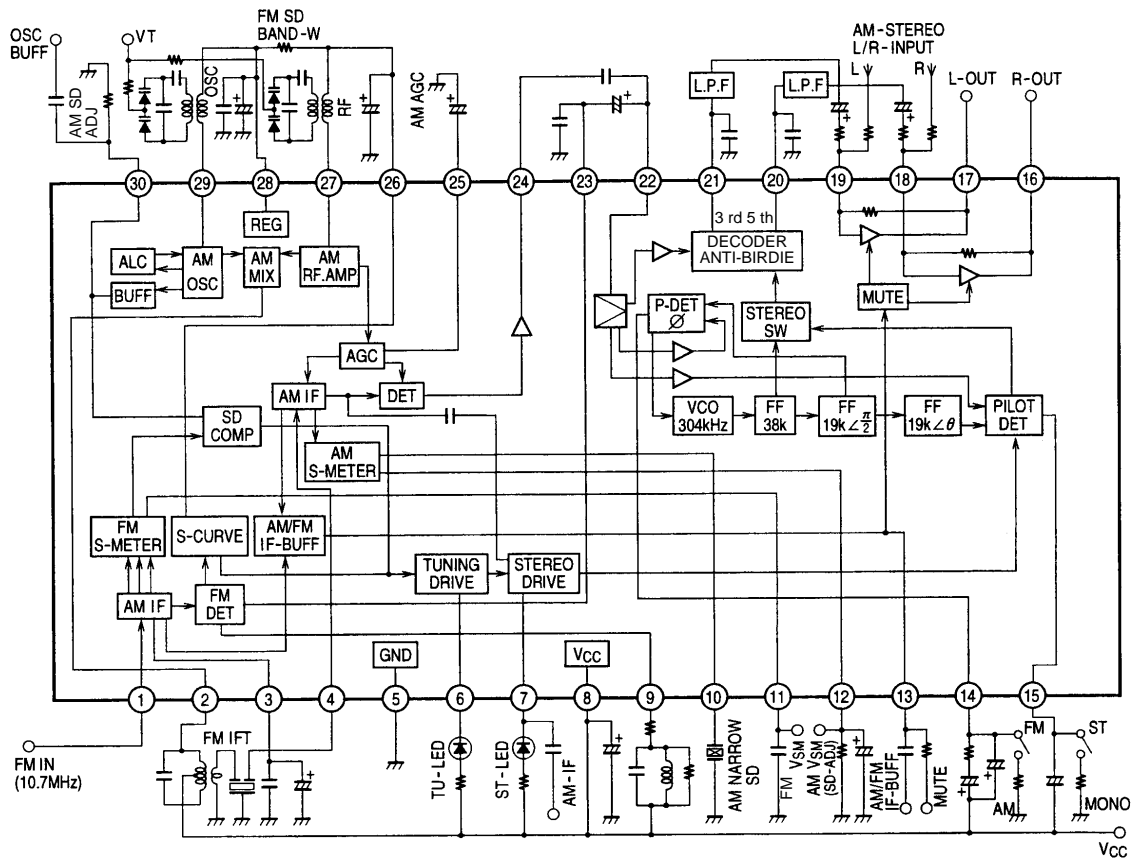


[Parallel Control Mode]

LC72131 (PLL SYNTHESIZER/ TUNER IC11)

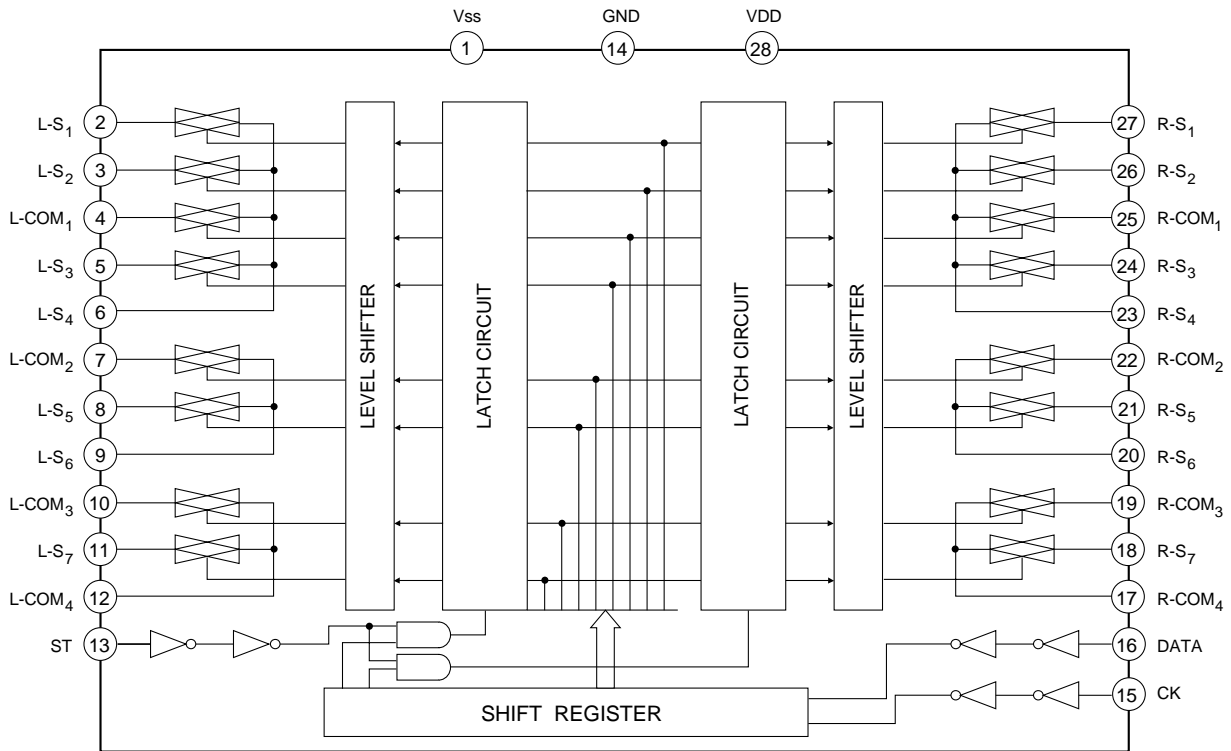


LA1837 (MPX + IF / TUNER IC12)



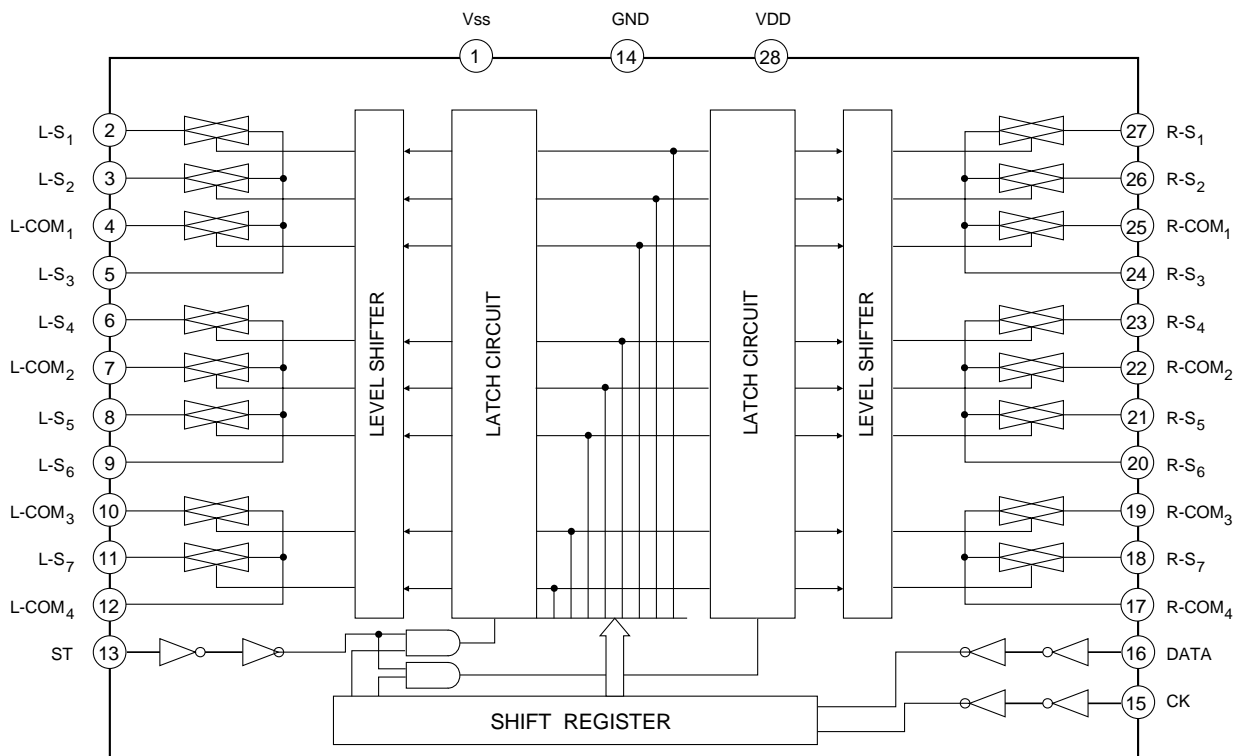
KIC9164AF (FUNCTION/INPUT IC20)

■ BLOCK DIAGRAM

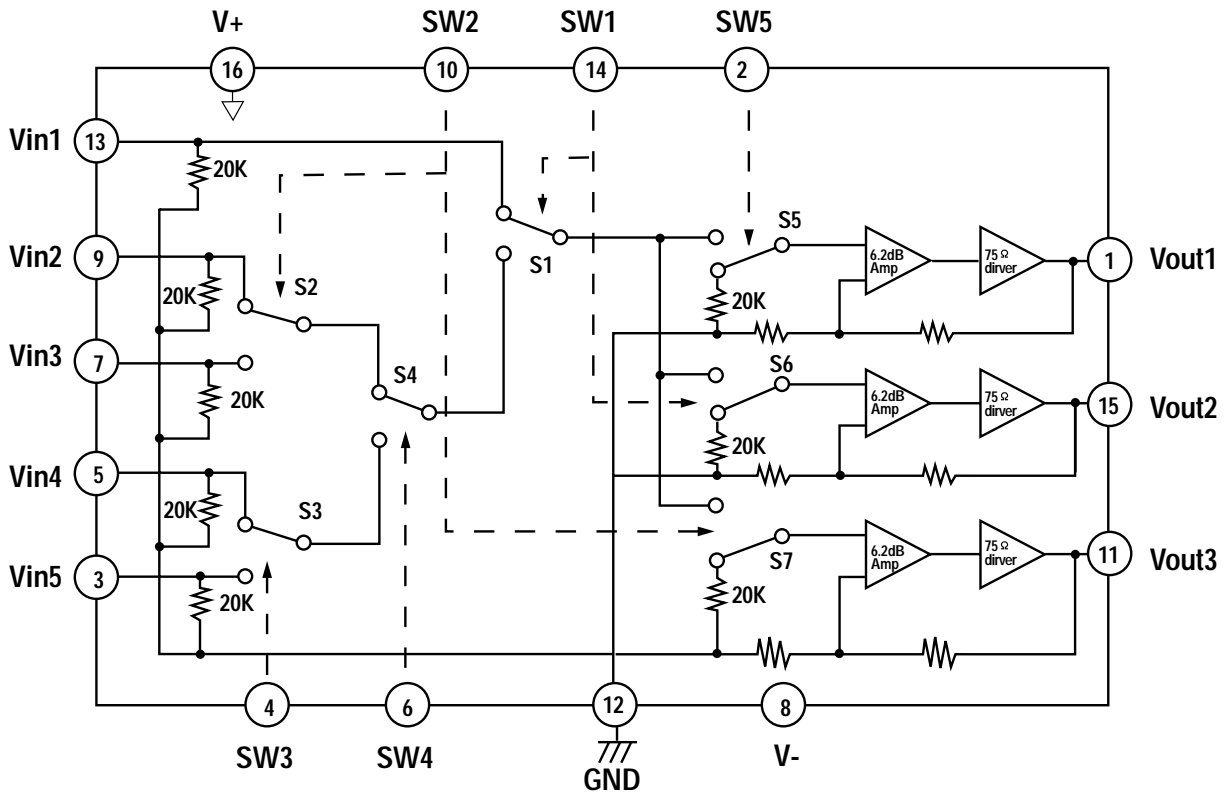


KIC9163AF (FUNCTION/INPUT IC21)

■ BLOCK DIAGRAM



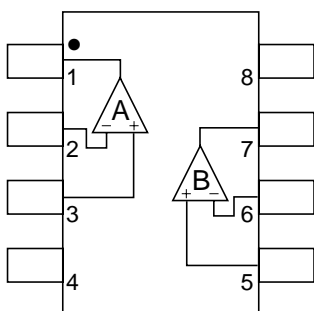
■ BLOCK DIAGAM (NJM2296M /MAIN IC96)



*** Normally mute**
Above circuits show that the switches are set at low.

LA6462M/6458M









■ PIN CONFIGURATION



- PIN FUNCITON**
- 1. A OUTPUT
 - 2. A-INPUT
 - 3. A+INPUT
 - 4. V⁻
 - 5. B+INPUT
 - 6. B-INPUT
 - 7. B OUTPUT
 - 8. V⁺

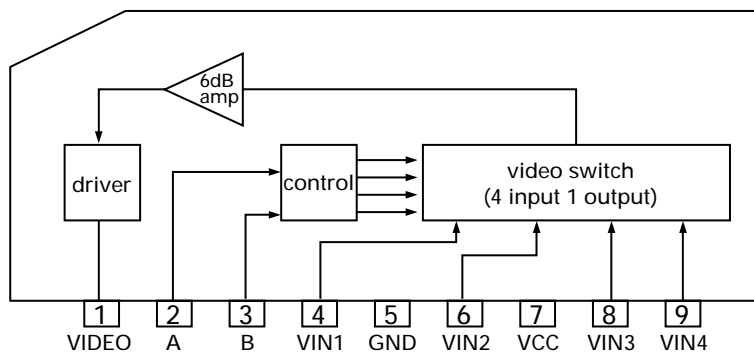
LA6462M/
LA6458M

TRANSISTOR, REGULATOR IC BLOCK DIAGRAM

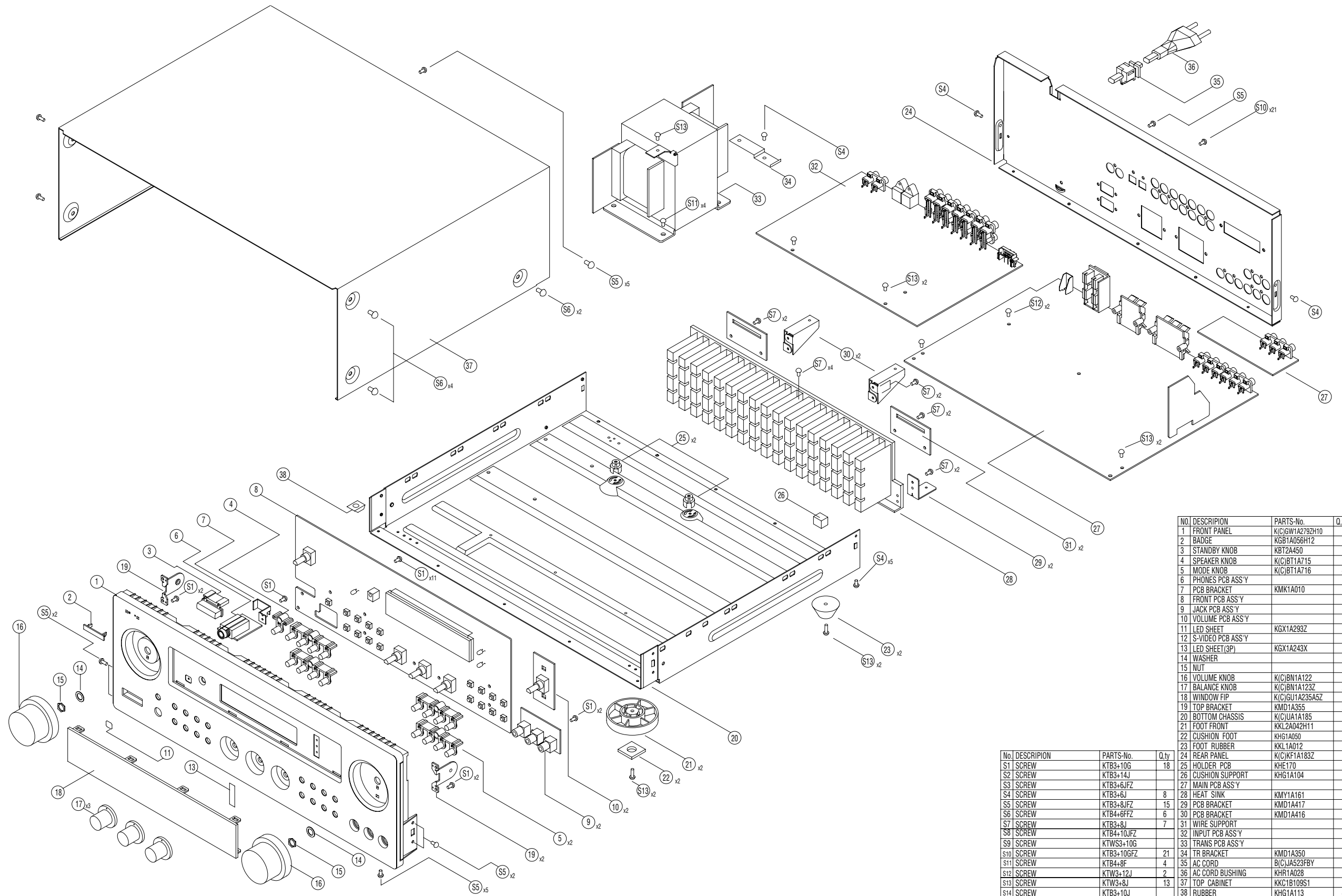
| | | | |
|--|---|--|--|
| <p>TO-92S</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>123</p> <p>KSA1175Y KRC114M KTA1271Y KSD811Y DTC144ES DTA144ES DTA114YS DTC114YS DTC143TS DTA144TS</p> | <p>TO-92</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>123</p> <p>KTD1302T KTA1268GR KTC3200GR KSC2785Y KTC31940</p> | <p>TO-220</p>  <p>1. INPUT 2. OUTPUT 3. GND</p> <p>123</p> <p>MC7912C</p> | <p>TO-92L</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>123</p> <p>KSA916Y KSC2316Y</p> |
| <p>TO-126</p>  <p>1. Emitter 2. Collector 3. Base</p> <p>123</p> <p>2SC4137V 2SC34230 2SA1360O</p> | <p>TO-220</p>  <p>1. Base 2. Collector 3. Emitter</p> <p>123</p> <p>KSA614Y KSD288Y 2SB1186AE 2SD1763AE</p> | <p>TO-220</p>  <p>1. INPUT 2. GND 3. OUTPUT</p> <p>123</p> <p>MC7812C MC7805C</p> | <p>TO-3P</p>  <p>1. Base 2. Collector 3. Emitter</p> <p>1 2 3</p> <p>2SC4468 2SA1695</p> |

LA7952(I.C, Video sw/ Input: IC51, IC52)

■ BLOCK DIAGAM/ PIN CONFIGURATION



EXPLODED VIEW (AG-D8900T/C)



| No. | DESCRIPTION | PARTS-No. | Q.ty |
|-----|-------------------|-----------------|------|
| 1 | FRONT PANEL | K(C)GW1A2792H10 | 1 |
| 2 | BADGE | KGB1A056H12 | 1 |
| 3 | STANDBY KNOB | KBT2A450 | 1 |
| 4 | SPEAKER KNOB | K(C)BT1A715 | 1 |
| 5 | MODE KNOB | K(C)BT1A716 | 4 |
| 6 | PHONES PCB ASS'Y | | 1 |
| 7 | PCB BRACKET | KMK1A010 | 1 |
| 8 | FRONT PCB ASS'Y | | 1 |
| 9 | JACK PCB ASS'Y | | 1 |
| 10 | VOLUME PCB ASS'Y | | 1 |
| 11 | LED SHEET | KGX1A293Z | 1 |
| 12 | S-VIDEO PCB ASS'Y | | 1 |
| 13 | LED SHEET(3P) | KGX1A243X | 1 |
| 14 | WASHER | | 2 |
| 15 | NUT | | 2 |
| 16 | VOLUME KNOB | K(C)BN1A122 | 2 |
| 17 | BALANCE KNOB | K(C)BN1A123Z | 3 |
| 18 | WINDOW FIP | K(C)GU1A235A5Z | 1 |
| 19 | TOP BRACKET | KMD1A355 | 2 |
| 20 | BOTTOM CHASSIS | K(C)UA1A185 | 1 |
| 21 | FOOT FRONT | KKL2A042H11 | 2 |
| 22 | CUSHION FOOT | KHG1A050 | 2 |
| 23 | FOOT RUBBER | KKL1A012 | 2 |
| 24 | REAR PANEL | K(C)KF1A183Z | 1 |
| 25 | HOLDER PCB | KHE170 | 2 |
| 26 | CUSHION SUPPORT | KHG1A104 | 1 |
| 27 | MAIN PCB ASS'Y | | 1 |
| 28 | HEAT SINK | KMY1A161 | 1 |
| 29 | PCB BRACKET | KMD1A417 | 2 |
| 30 | PCB BRACKET | KMD1A416 | 2 |
| 31 | WIRE SUPPORT | | 1 |
| 32 | INPUT PCB ASS'Y | | 1 |
| 33 | TRANS PCB ASS'Y | | 1 |
| S10 | SCREW | KT83+10GFZ | 21 |
| S11 | SCREW | KT83+10G | 18 |
| S12 | SCREW | KTW3+12J | 2 |
| S13 | SCREW | KTW3+10J | 13 |
| S14 | SCREW | KT83+10J | 8 |
| S1 | SCREW | KT83+10G | 18 |
| S2 | SCREW | KT83+14J | 1 |
| S3 | SCREW | KT83+6JFZ | 1 |
| S4 | SCREW | KT83+6J | 8 |
| S5 | SCREW | KT83+8JFZ | 15 |
| S6 | SCREW | KT84+6FFZ | 6 |
| S7 | SCREW | KT83+8J | 7 |
| S8 | SCREW | KT84+10JFZ | 1 |
| S9 | SCREW | KTWS3+10G | 1 |
| S10 | SCREW | KT83+10GFZ | 21 |
| S11 | SCREW | KT84+8F | 4 |
| S12 | SCREW | KTW3+12J | 2 |
| S13 | SCREW | KTW3+10J | 13 |
| S14 | SCREW | KT83+10J | 8 |

EXPLODED VIEW

| REF. NO. | PARTS NO. | DESCRIPTION | REMARKS |
|------------|--------------|----------------------------|---------|
| 1 | 9A08886700 | PANEL, FRONT [J] | |
| | 9A08956000 | PANEL, FRONT [US, C] | |
| 2 | 9A08887100 | BADGE | |
| 3 | 9A08886600 | KNOB, STANDBY [J] | |
| | 9A06777500 | KNOB, POWER [US, C] | |
| 4 | 9A08886400 | KNOB, SPEAKER [J] | |
| | 9A08955800 | KNOB, SPEAKER [US, C] | |
| 5 | 9A08886500 | KNOB, MODE [J] | |
| | 9A08955900 | KNOB, MODE [US, C] | |
| 6 | ----- | PHONES PCB ASSY | |
| 7 | 9A08886900 | BRACKET, PCB | |
| 8 | 9A08887000 | FRONT PCB ASSY [J] | |
| | 9A08887010 | FRONT PCB ASSY [US, C] | |
| 9 | ----- | JACK PCB ASSY | |
| 10 | ----- | VOLUME PCB ASSY | |
| 11 | 9A08887200 | SHEET, LED | |
| 12 | ----- | S-VIDEO PCB ASSY | |
| 13 | 9A08045300 | SHEET, LED (3P) | |
| 16 | 9A08885300 | KNOB, VOLUME [J] | |
| | 9A08955600 | KNOB, VOLUME [US, C] | |
| 17 | 9A08885400 | KNOB, TONE [J] | |
| | 9A08955700 | KNOB, TONE [US, C] | |
| 18 | 9A08885500 | WINDOW, FIP | |
| 19 | 9A08886800 | BRACKET, TOP | |
| 20 | 9A08888100 | CHASSIS, BOTTOM | |
| 21 | 9A08887600 | FOOT, FRONT | |
| 22 | 9A06754800 | RUBBER, CUSHION | |
| 23 | 9A06755300 | FOOT, RUBBER (BLACK) | |
| 24 | 9A08887500 | PANEL, REAR [J] | |
| | 9A08956100 | PANEL, REAR [US, C] | |
| 25 | 9A01375500 | PCB HOLDER | |
| 26 | 9A06327100 | SUPPORT, CUSHION | |
| 27 | 9A08887900 | MAIN PCB ASSY [J] | |
| | 9A08887910 | MAIN PCB ASSY [US, C] | |
| 28 | 9A08952200 | HEAT SINK | |
| 29 | 9A08952300 | BRACKET, PCB | |
| 30 | 9A08745400 | BRACKET, PCB (H/T) | |
| 31 | ----- | WIRE HOLDER PCB | |
| 32 | 9A08888000 | INPUT PCB ASSY [J] | |
| | 9A08888010 | INPUT PCB ASSY [US, C] | |
| 33 | △ 9A08887700 | TRANSFORMER, POWER [J] | |
| | △ 9A08939300 | TRANSFORMER, POWER [US, C] | |
| 34 | 9A08887800 | BRACKET, TR | |
| 35 | △ 9A07872600 | POWER CORD [US, C] | |
| | △ 9A08125200 | POWER CORD [J] | |
| 36 | △ 9A06754900 | BUSHING, AC CORD | |
| 37 | 9A08810200 | CABINET, TOP [US, C] | |
| | 9A08885800 | CABINET, TOP [J] | |
| 38 | 9A08885700 | RUBBER | |
| | 9A08038100 | RING, FERRITE | |
| CN10 | 9A08887300 | CABLE, CARD | |
| CN11 | 9A08887400 | CABLE, CARD | |
| F901 | △ 9A06756100 | FUSE, 2.5A 250V [US, C] | |
| F901 | △ 9A08888200 | FUSE, 2.5A 250V [J] | |
| F902 | △ 9A07371000 | FUSE, 6.3A 250V [US, C] | |
| F902 | △ 9A08888300 | FUSE, 6.3A 250V [J] | |
| F903, F904 | △ 9A07044800 | FUSE, 8A 250V [US, C] | |
| F903, F904 | △ 9A08888400 | FUSE, 8A 250V [J] | |

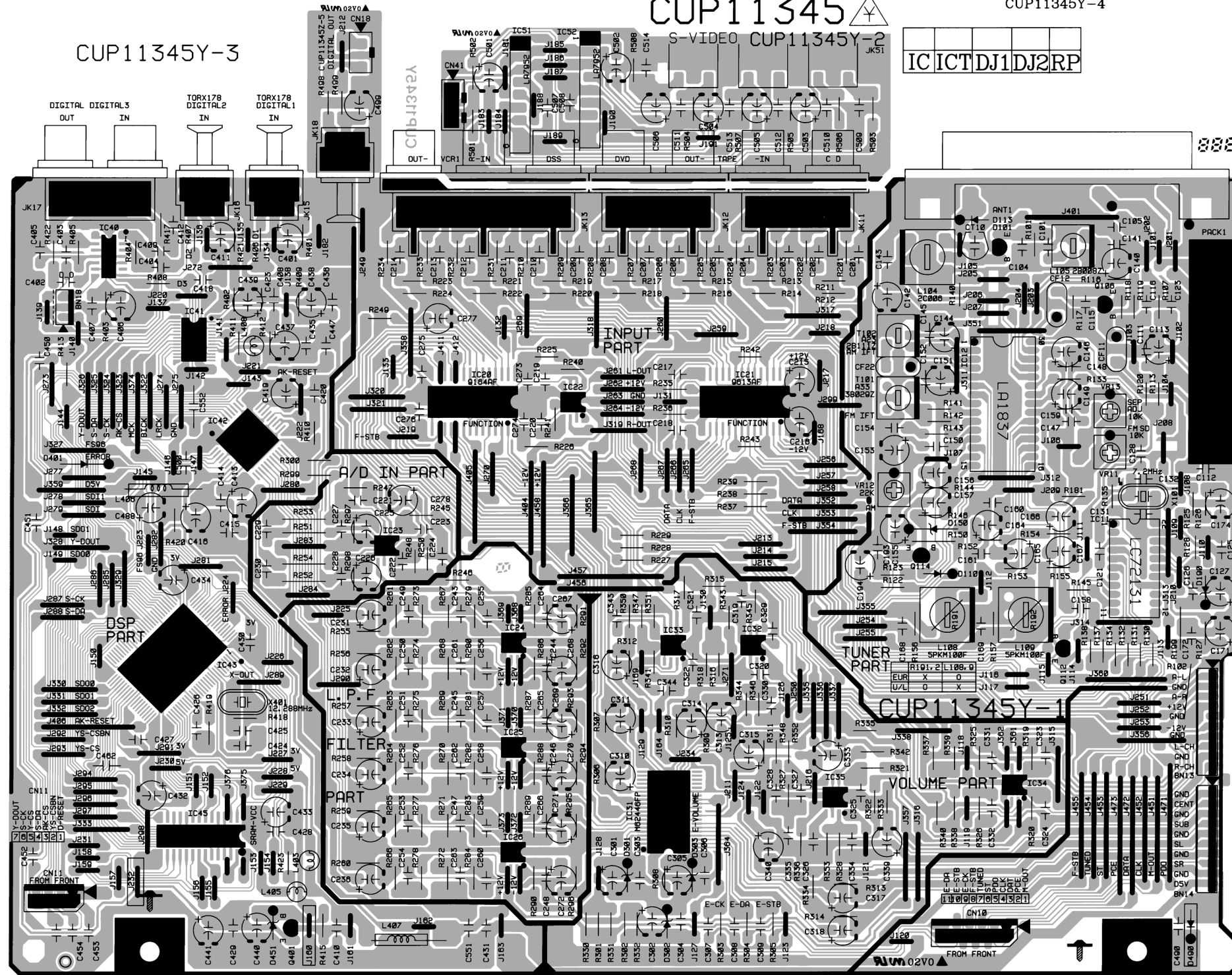
CUP11345Y-3

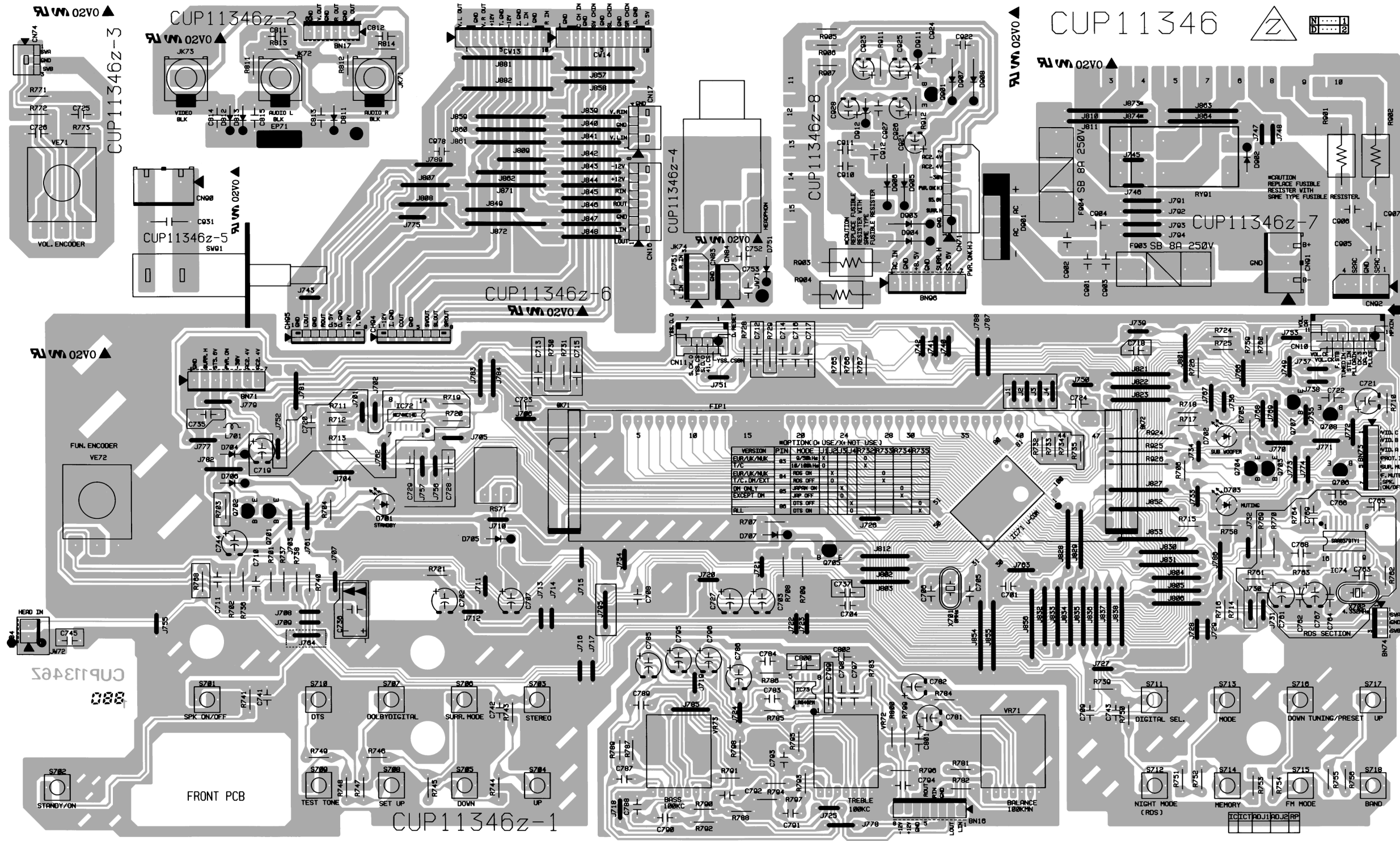
CUP11345

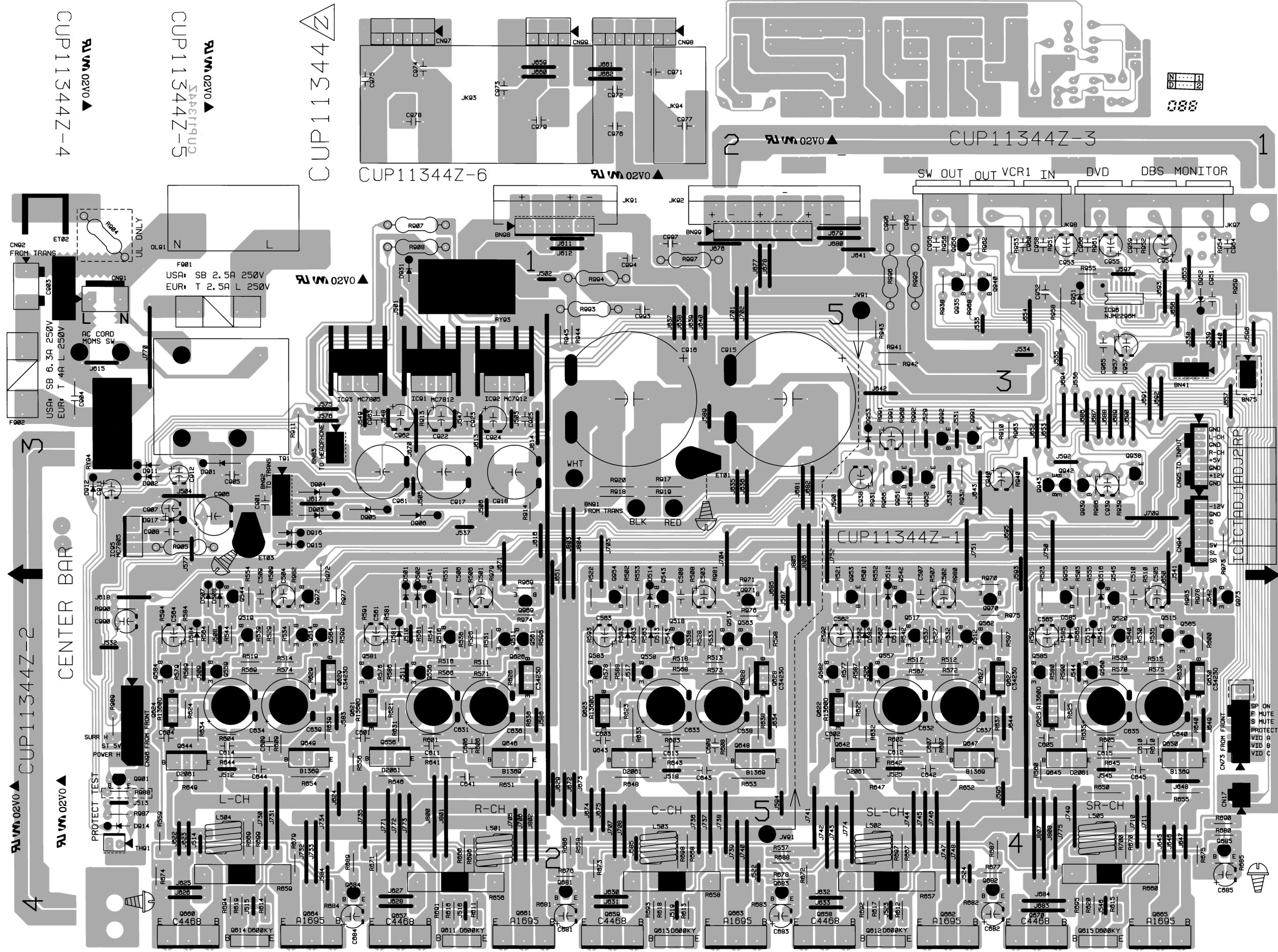
CUP11345Y-4

S-VIDEO CUP11345Y-2

IC ICTDJ1DJ2RP







INPUT PCB ASSY

| REF. NO. | PARTS NO. | DESCRIPTION |
|------------|--------------|----------------------------|
| | 9A08888000 | INPUT PCB ASSY [J] |
| | 9A08888010 | INPUT PCB ASSY [US, C] |
| | 9A08953300 | PCB, INPUT |
| | 9A08215300 | PACK, FRONT END [US, C] |
| | 9A08947100 | PACK, FRONT END [J] |
| ANT1 | 9A07371900 | TERMINAL, ANT |
| BN13, BN14 | 9A08036700 | WAFER |
| CF11, CF12 | 9A06544600 | FILTER, CERAMIC E107MSHAT |
| CF22 | 9A07006300 | FILTER, CERAMIC PBF450JR3 |
| CN10 | 9A08947300 | WAFER, CARDCABLE |
| CN11 | 9A08947400 | WAFER, CARDCABLE |
| CN41 | 9A05356300 | WAFER, 04GA19ZM |
| CT10 | 9A01405900 | C, VARIABLE 20PF |
| D101 | 9A08163000 | DIODE, VARICAP SVC342-L-AA |
| D110, D113 | 9A08878200 | DIODE, 1SS133T-77 |
| D150 | 9A07892400 | DIODE, ZENER 9.1V 1/2W |
| D190 | 9A08954100 | DIODE, ZENER MTZJ5.1BT |
| D301, D302 | 9A08951100 | DIODE, ZENER MTZJ6.8BT |
| D303 | 9A08954100 | DIODE, ZENER MTZJ5.1BT |
| D401 | 9A08954200 | DIODE, 1N4148T |
| D451 | 9A08954300 | DIODE, ZENER MTZJ4.7BT |
| D490 | 9A08878200 | DIODE, 1SS133T-77 |
| IC11 | 9A08947500 | IC, PLL |
| IC12 | 9A08033000 | IC, LA1837 |
| IC20 | 9A08947600 | IC, KIC9164AF |
| IC21 | 9A08947700 | IC, KIC9163AF |
| IC22 | 9A08889900 | IC, LA6462M |
| IC23-IC26 | 9A08947800 | IC, LA6458M |
| IC31 | 9A08947900 | IC, M62446FP |
| IC32, IC34 | 9A08889900 | IC, LA6462M |
| IC33, IC35 | 9A08947800 | IC, LA6458M |
| IC40 | 9A08948000 | IC, TC74HCU04AFN |
| IC41 | 9A08948100 | IC, AK4112A-VF-E2 |
| IC42 | 9A08903900 | IC, AK4527VQ |
| IC43 | 9A08033700 | IC, YSS912C-F |
| IC45 | 9A08032900 | IC, IS61C256AH-15J |
| IC51, IC52 | 9A08948200 | IC, LA7952 |
| JK11, JK12 | 9A07425400 | JACK, IN/OUT |
| JK13 | 9A07425500 | TERMINAL, IN/OUT |
| JK15, JK16 | 9A08948300 | MODULE, OPTICAL TORX178A |
| JK17 | 9A08948400 | JACK, BOARD (2P) |
| JK51 | 9A08948500 | JACK, S-VIDEO (3P/H) |
| L104 | 9A08948600 | COIL, MW ANT |
| L105 | 9A07873300 | COIL, AM OSC |
| L403 | 9A08037600 | COIL, 10UH |
| L405 | 9A08037600 | COIL, 10UH |
| L406, L407 | 9A07050600 | BEAD, CORE |
| L408 | 9A08037600 | COIL, 10UH |
| Q106 | 9A08954400 | TR, KTC31940T |
| Q112 | 9A08884100 | TR, KRA107M |
| Q114 | 9A08878300 | TR, KRC107M |
| Q401 | 9A07888000 | TR, KSC2316YT |
| R102 | △ 9A08948700 | R, CARBON 4.7 OHM 1/2W J |
| T101 | 9A08125500 | IFT, FM |
| T102 | 9A08948900 | IFT, AM |

INPUT PCB ASSY

| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|------------|-----------------------|
| VR11 | 9A08040600 | R, SEMI-FIXED 10K OHM |
| VR12 | 9A08040700 | R, SEMI-FIXED 22K OHM |
| VR13 | 9A08040600 | R, SEMI-FIXED 10K OHM |
| X101 | 9A08883700 | CRYSTAL |
| X401 | 9A08949000 | CRYSTAL |

FRONT PCB ASSY

| REF. NO. | PARTS NO. | DESCRIPTION |
|------------|--------------|-------------------------|
| | 9A08887000 | FRONT PCB ASSY [J] |
| | 9A08887010 | FRONT PCB ASSY [US, C] |
| | 9A08949100 | PCB, FRONT |
| BK71, BK72 | 9A08888700 | BRACKET, FLT |
| CH94, CH95 | 9A08889400 | CONNECTOR, HOUSING |
| CN10 | 9A08889500 | WAFER, CARDCABLE |
| CN11 | 9A08889600 | WAFER, CARDCABLE |
| CN16 | 9A08036300 | WAFER |
| CN17 | 9A07335100 | WAFER, MOLEX 53015 |
| CN71 | 9A07049700 | WAFER |
| CN74 | 9A07049500 | WAFER, MOLEX 53015-0310 |
| CN83 | 9A05329100 | WAFER, MOLEX 5267-03A |
| CN91 | 9A06759300 | WAFER |
| CN92 | 9A05329300 | WAFER, MOLEX 5267-04A |
| CW13, CW14 | 9A08036600 | WAFER, MOLEX 35336-1010 |
| D701-D703 | 9A08147300 | LED, SLR342VCTB7 (RED) |
| D704-D707 | 9A08878200 | DIODE, 1SS133T-77 |
| D751 | 9A08878200 | DIODE, 1SS133T-77 |
| D811, D812 | 9A08878200 | DIODE, 1SS133T-77 |
| D901 | △ 9A08889700 | DIODE, BRIDGE |
| D903-D908 | △ 9A05194700 | DIODE, 1N4003ST |
| D911 | 9A08905700 | DIODE, ZENER MTZJ30BT |
| D912 | 9A07887100 | DIODE, ZENER 6.2V |
| EP71 | 9A05961500 | PLATE, EARTH |
| FIP1 | 9A08034600 | FIP, SVA-10MS11 |
| F903, F904 | 9A05328200 | HOLDER, FUSE |
| IC71 | 9A08889800 | IC, TMP87PM78F |
| IC73 | 9A08889900 | IC, LA6462M |
| JK71-JK73 | 9A08890000 | JACK, VCR |
| JK74 | 9A07491600 | JACK |
| L701 | 9A07886600 | COIL, 10UH |
| Q701 | 9A08905800 | TR, KRA104MT |
| Q702 | 9A08905900 | TR, KRC114MT |
| Q703, Q704 | 9A08878300 | TR, KRC107M |
| Q705 | 9A07887900 | TR, KSB811YT |
| Q706-Q708 | 9A08878300 | TR, KRC107M |
| Q901 | 9A08906000 | TR, KTA1271YT |
| RS71 | 9A08563600 | SENSOR, REMOCON |
| R901-R904 | △ 9A05897200 | R, FUSE 0.47 OHM 1W |
| S701-S718 | 9A07878500 | SW, TACT SKHV10910G |
| VE71 | 9A08890200 | VR, ENCODER 2A004Z |
| VE72 | 9A08890300 | VR, ENCODER 2A006Z |
| VR71 | 9A08890400 | R, VARIABLE (BALANCE) |
| VR72, VR73 | 9A08890500 | R, VARIABLE (TONE) |
| X701 | 9A08879000 | CRYSTAL |

MAIN PCB ASSY

| REF. NO. | PARTS NO. | DESCRIPTION |
|------------|--------------|----------------------------|
| | 9A08887900 | MAIN PCB ASSY [J] |
| | 9A08887910 | MAIN PCB ASSY [US, C] |
| | 9A08950900 | PCB, MAIN |
| | 9A08952200 | HEAT SINK |
| | 9A08745400 | BRACKET, PCB (H/T) |
| | 9A08952300 | BRACKET, PCB |
| CN17 | 9A06250600 | WAFER, 02GA19ZM |
| CN73 | 9A05356500 | WAFER, MOLEX 53014-0710 |
| CN91 | 9A06674400 | WAFER |
| CN92 | 9A06785000 | WAFER |
| CN94, CN95 | 9A08891200 | WAFER, 08GA98ZM |
| CN96 | 9A05330000 | WAFER, MOLEX 5267-07A |
| C903 | △ 9A08032200 | C, LINE ACROSS 0.1UF 250V |
| C904 | △ 9A08882700 | C, CERAMIC DE7150-610F472M |
| C906 | △ 9A08944600 | C, ELECT 1000UF 25V |
| C915, C916 | △ 9A08944700 | C, ELECT 8200UF 63V |
| C917, C961 | △ 9A08944800 | C, ELECT 3300UF 25V |
| C918 | △ 9A07897200 | C, ELECT 2200UF 25V |
| D501, D502 | 9A08878200 | DIODE, 1SS133T-77 |
| D507, D508 | 9A08878200 | DIODE, 1SS133T-77 |
| D511-D516 | 9A08878200 | DIODE, 1SS133T-77 |
| D581-D585 | 9A08878200 | DIODE, 1SS133T-77 |
| D901 | △ 9A05194700 | DIODE, 1N4003ST |
| D902 | 9A08878200 | DIODE, 1SS133T-77 |
| D903-D906 | △ 9A05194700 | DIODE, 1N4003ST |
| D911, D912 | 9A08878200 | DIODE, 1SS133T-77 |
| D914-D917 | 9A08878200 | DIODE, 1SS133T-77 |
| D931 | 9A08878200 | DIODE, 1SS133T-77 |
| D951, D952 | 9A08951100 | DIODE, ZENER MTZJ6.8BT |
| D953 | 9A08878200 | DIODE, 1SS133T-77 |
| ET01, ET03 | 9A08945000 | PLATE, EARTH |
| ET02 | 9A08945100 | BRACKET, PCB |
| F901, F902 | 9A05328200 | HOLDER, FUSE |
| IC91 | 9A08952900 | HEAT SINK |
| IC91 | △ 9A07898500 | IC, KA7812-ABTU |
| IC92 | 9A08952900 | HEAT SINK |
| IC92 | △ 9A08953100 | IC, KA7912-ABTU |
| IC93 | 9A08953200 | HEAT SINK |
| IC93, IC95 | △ 9A08218600 | IC, KA7805-ABTU |
| IC96 | 9A08945500 | IC, NJM2296M |
| JK91 | 9A08945600 | TERMINAL, SPEAKER (4P) |
| JK92 | 9A08945700 | TERMINAL, SPEAKER |
| JK97 | 9A07427800 | JACK, VCR |
| JK98 | 9A08945800 | JACK, BOARD |
| L501-L505 | 9A08946000 | COIL, SPEAKER |
| OL01 | △ 9A08946100 | OUTLET, 2P |
| Q511-Q520 | 9A08951200 | TR, KTA1268GRT |
| Q541-Q545 | 9A08951200 | TR, KTA1268GRT |
| Q556-Q565 | 9A08951300 | TR, KTC3200GRT |
| Q581-Q585 | 9A08951200 | TR, KTA1268GRT |
| Q611-Q615 | 9A08952400 | TR, KTD600K |
| Q621-Q625 | 9A08946200 | TR, 2SA13600 |
| Q626-Q630 | 9A08946300 | TR, 2SC34230 |
| Q642-Q645 | △ 9A08946400 | TR, KTD2061Y |
| Q646-Q650 | △ 9A08946500 | TR, KTB1369Y |

MAIN PCB ASSY

| REF. NO. | PARTS NO. | DESCRIPTION |
|------------|--------------|-------------------------------|
| Q656 | △ 9A08946400 | TR, KTD2061Y |
| Q657-Q660 | △ 9A08952600 | TR, 2SC4468 |
| Q661-Q665 | △ 9A08952700 | TR, 2SA1695 |
| Q670 | △ 9A08952600 | TR, 2SC4468 |
| Q681-Q685 | 9A03745000 | TR, KSC2785-YTA |
| Q901, Q935 | 9A08878300 | TR, KRC107M |
| Q938-Q940 | 9A08884100 | TR, KRA107M |
| Q942, Q943 | 9A03745000 | TR, KSC2785-YTA |
| Q951 | 9A08878300 | TR, KRC107M |
| Q952 | 9A08884100 | TR, KRA107M |
| Q953-Q956 | 9A07888500 | TR, KTD1302T |
| Q969-Q973 | 9A07888500 | TR, KTD1302T |
| Q991 | 9A08878300 | TR, KRC107M |
| Q992 | 9A08884100 | TR, KRA107M |
| RY93 | △ 9A08946600 | RELAY, 4A004ZU |
| RY94 | △ 9A08946700 | RELAY, 1A008ZE |
| R656-R660 | △ 9A07331100 | R, CEMENT 0.22X2 5W |
| R904 | △ 9A06761000 | R, CARBON 3.3M K 1/2W [US, C] |
| R905 | △ 9A05338000 | R, METAL 10 OHM 1W J |
| R907, R908 | △ 9A07309700 | R, METAL 470 OHM 1W J |
| R958, R959 | △ 9A08946800 | R, CARBON 120 OHM 1/2W J |
| R993-R997 | △ 9A05338000 | R, METAL 10 OHM 1W J |
| TH91 | 9A08039800 | THERMAL SENSOR, POSISTOR |
| T901 | △ 9A08946900 | TRANSFORMER, SUB |

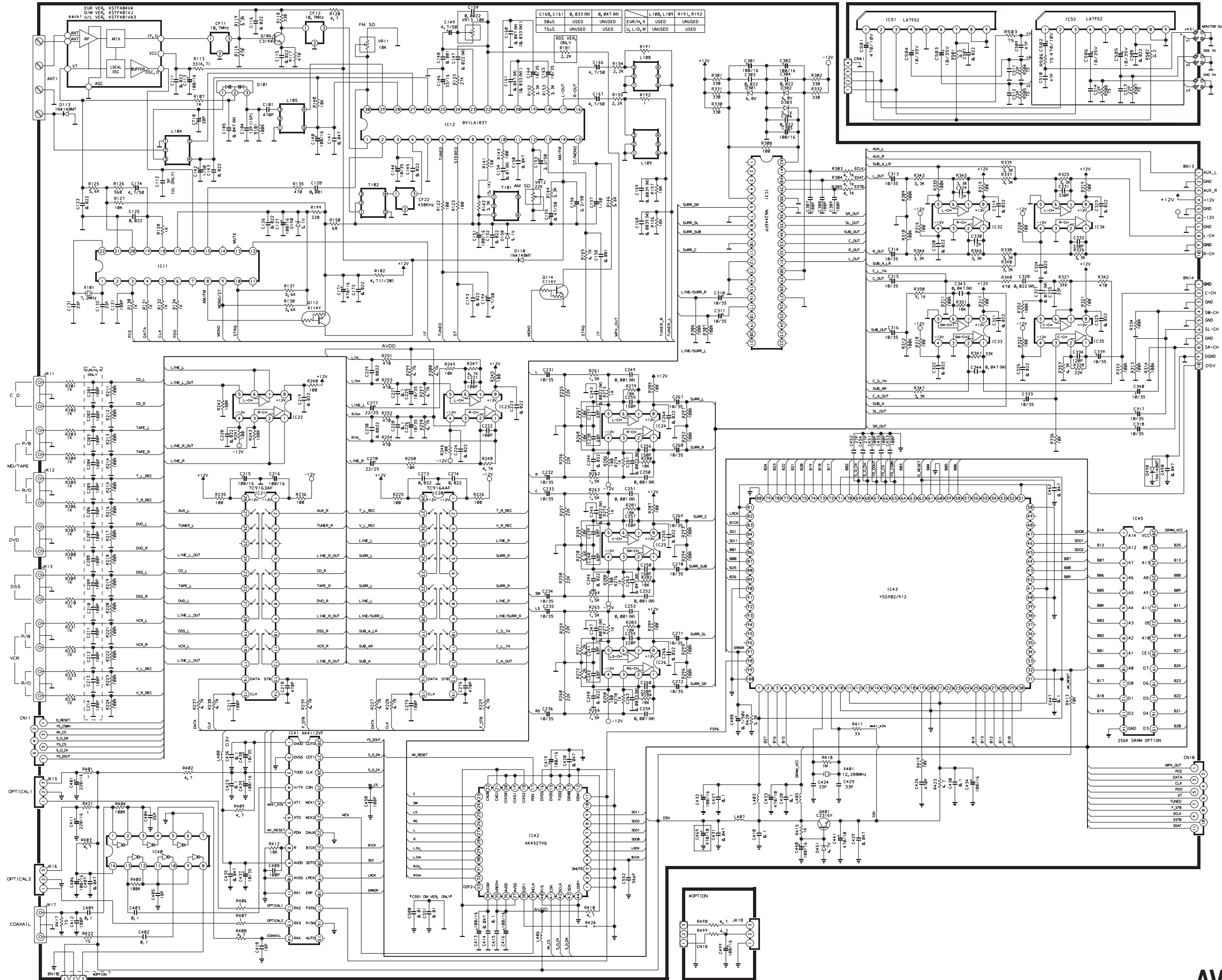
INCLUDED ACCESSORIES

| REF. NO. | PARTS NO. | DESCRIPTION | REMARKS |
|----------|------------|-----------------------------|---------|
| | 9A08523201 | OWNER' S MNL, E/F [US, C] | |
| | 9A08523300 | OWNER' S MNL, J [J] | |
| | 9A08763300 | REMOTE CONTROL UNIT, UR-417 | |
| | 9A08886200 | BATTERY [J] | |
| | 9A08886000 | ANT, FM T | |
| | 9A08886100 | AM LOOP ANTENNA ASSY | |

TEAC SCHEMATIC DIAGRAM AG-D8900

1 2 3 4 5 6 7 8

A
B
C
D
E



NOTES:
 1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
 2. Capacitor values are in microfarads (p=picofarads).
 3. Δ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

注意
 1. 抵抗の単位は Ω (k=k Ω , M=M Ω) です。
 2. コンデンサの単位は μF (p=pF) です。
 3. Δ マークのある部品は安全規格重要部品です。交換するときは必ずディック指定の部品を使用してください。

AG-D8900

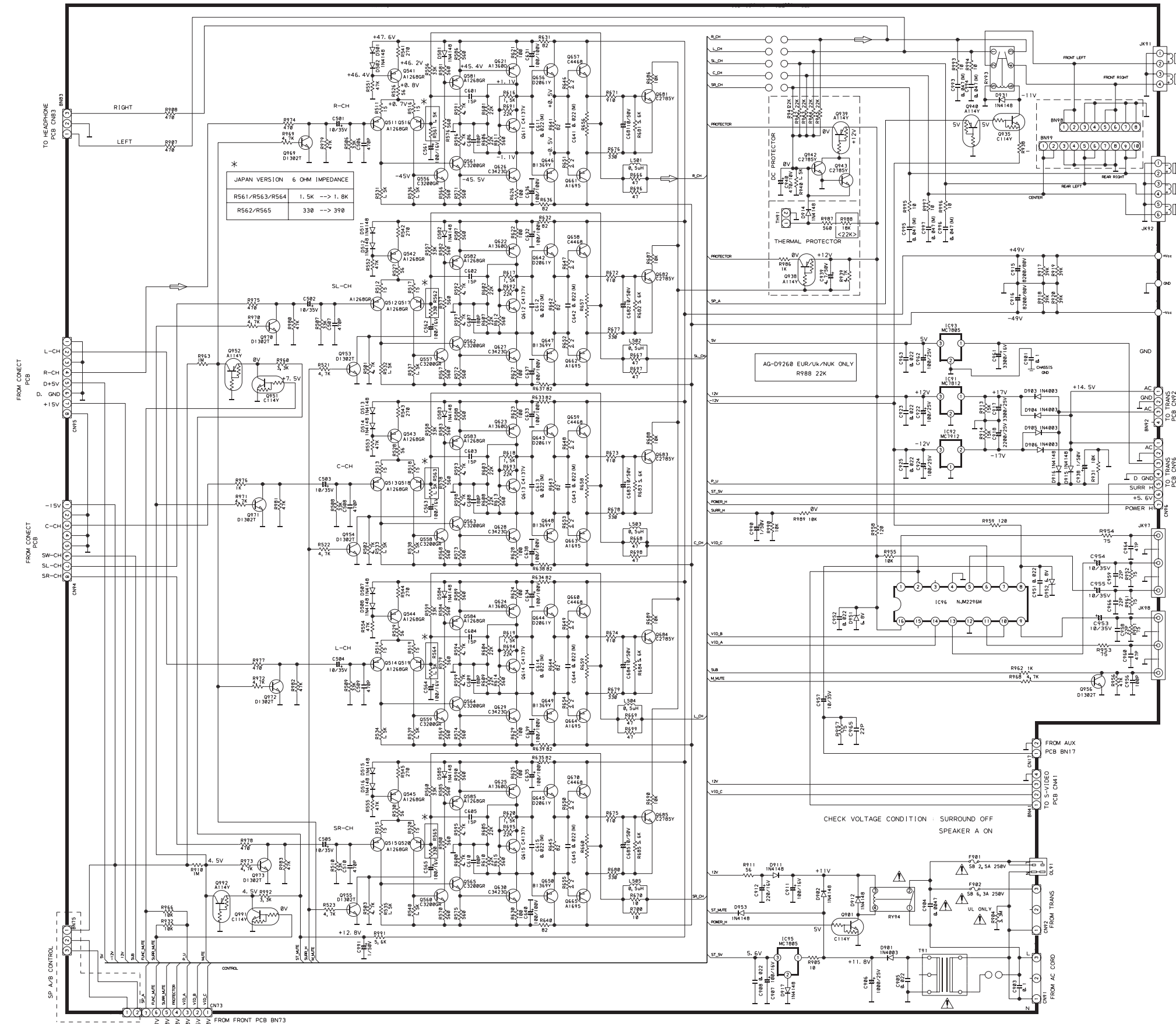
AV Digital Surround Receiver

1st Issue; June 2001

TEAC SCHEMATIC DIAGRAM AG-D8900

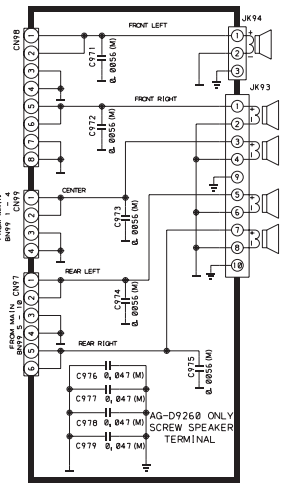
1 2 3 4 5 6 7 8

A
B
C
D
E



* JAPAN VERSION 6 OHM IMPEDANCE

| | |
|----------------|-------------|
| R561/R563/R564 | 1.5K → 1.8K |
| R562/R565 | 330 → 390 |



- NOTES:**
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TEAC SCHEMATIC DIAGRAM AG-D8900

1

2

3

4

5

6

7

8

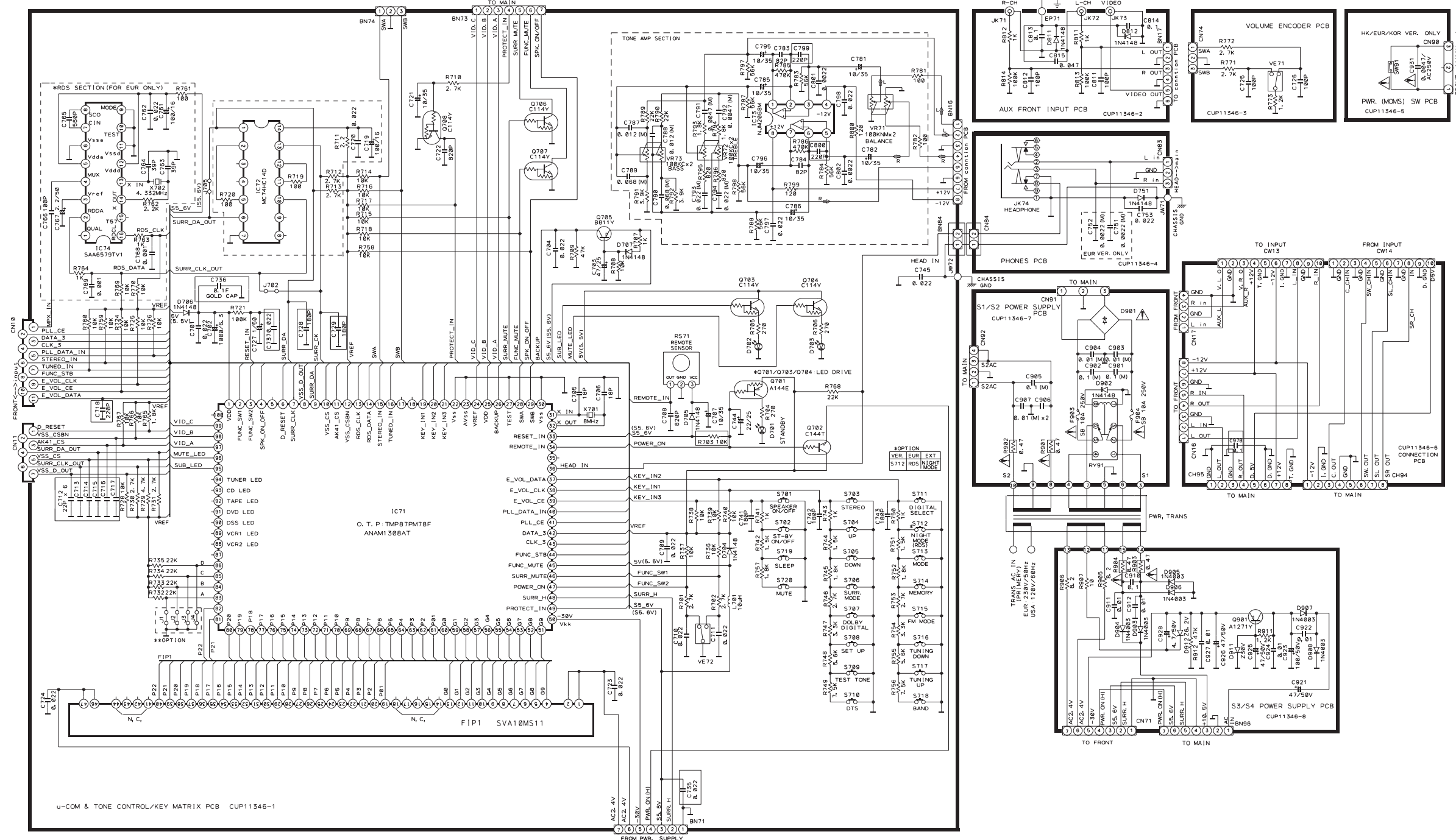
A

B

C

D

E



**OPTION

| | | | |
|------|---|---------------------|------------|
| A | H | AM/FM 9/50kHzSTEP | EUR/UK/NUK |
| (J1) | L | AM/FM 10/100kHzSTEP | T/C |
| B | H | RDS ON (R735 USE) | EUR/UK/NUK |
| (J2) | L | RDS OFF (J2 USE) | T/C DM EXT |
| C | H | JAPAN BAND ON | DM ONLY |
| (J3) | L | JAPAN BAND OFF | EXCEPT DM |
| D | H | DTS OFF (R735 USE) | ALL |
| (J4) | L | DTS ON (J4 USE) | |

INSTRUCTIONS FOR SERVICE PERSONNEL
 BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:
 1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
 2. Capacitor values are in microfarads (p=picofarads).
 3. Δ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

注意
 1. 抵抗の単位は Ω (k=k Ω , M=M Ω) です。
 2. コンデンサの単位は μ F (p=pF) です。
 3. Δ マークのある部品は安全規格重要部品です。交換するときは必ずティアック指定の部品を使用してください。

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