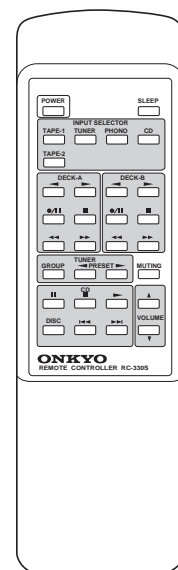
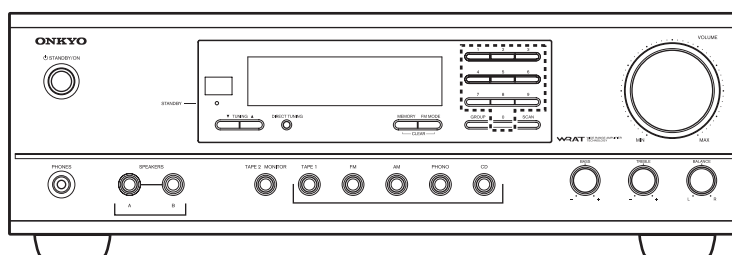


# ONKYO SERVICE MANUAL

## STEREO RECEIVER MODEL TX-8011




RC-330S

Black model

|      |                 |
|------|-----------------|
| BMDD | 120 V AC, 60 Hz |
|------|-----------------|

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

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

## SPECIFICATIONS

### Amplifier Section

|                                 |   |
|---------------------------------|---|
| Power Output                    | Front L/R<br>50 W + 50 W<br>(8ohm, 20 Hz-20 kHz, FTC)                   |
| Dynamic Power                   | 105 W + 105 W (4 ohm)<br>70 W + 70 W (8 ohm)                            |
| THD (Total Harmonic Distortion) | 0.08 % (Power Rated)  |
| Damping Factor                  | 60 (Front, 1 kHz, 8 ohm)  |
| Input Sensitivity and Impedance | 150 mV/50 kohm (LINE)<br>2.5 mV/50 kohm (PHONO MM)                      |
| Output Level and Impedance      | 150 mV/2.2 kohm (REC OUT)   |
| Phono Overload                  | 120 mV (MM 1 kHz 0.5 %)   |
| Frequency Response              | 10 Hz-100 kHz/+1 dB -3 dB<br>(TONE FLAT, CD, TAPE-1,<br>TAPE-2/MONITOR) |
| Tone Control                    | ±10 dB, 50 Hz (BASS)<br>±10 dB, 20 kHz (TREBLE)                         |
| SN Ratio                        | 100 dB (LINE ,IHF-A)<br>80 dB (PHONO, IHF-A)                            |
| Speaker Impedance               | 4 ohm   |

### Tuner Section

#### FM

|                        |  |
|------------------------|--|
| Tuning Frequency Range | 87.5 MHz-108.0 MHz   |
| Usable Sensitivity     | Stereo 17.2 dBf 2.0 $\mu$ V(75 ohm IHF)<br>Mono 11.2 dBf 1.0 $\mu$ V(75 ohm IHF) |
| S/N Ratio              | Stereo 70 dB (IHF-A)<br>Mono 76 dB (IHF-A)                                       |
| THD                    | Stereo 0.25 % (1kHz)<br>Mono 0.15 % (1kHz)                                       |
| Frequency Response     | 30 Hz-15 kHz/±1.5 dB   |
| Stereo Separation      | 45 dB ( 1kHz )   |

#### AM

|                        |                  |
|------------------------|------------------|
| Tuning Frequency Range | 530 kHz-1710 kHz |
| Usable Sensitivity     | 30 $\mu$ V       |
| S/N Ratio              | 40 dB            |
| THD                    | 0.70%            |


### General


|                            |   |
|----------------------------|---|
| Power Supply               | AC 120 V, 60 Hz   |
| Power Consumption          | 180 W   |
| Stand-by Power Consumption | 1.35 W  |
| Dimensions(W x H x D)      | 17-1/8" x 5-7/8" x 12-11/16" inches<br>435 x 150 x 322 mm |
| Weight                     | 16.3 lbs<br>7.4 kg  |
| Analog Inputs              | PHONO, CD, TAPE-1, TAPE-2/<br>MONITOR                     |
| Analog Outputs             | TAPE-1, TAPE-2/MONI                                       |
| Speaker Outputs            | 4(SP-A, SP-B)   |
| Phones                     | 1   |

Specifications and features are subject to change without notice.

## SERVICE PROCEDURES

### 1. Replacing the fuse

 This symbol located near the fuses indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

 Ce symbole indique que le fusible utilise est a rapide. Pour une protection permanente, n'utiliser que fusibles de meme type. Ce dernier est la qu le present symbol est appse.

| CIRCUIT NO. | PART NO. | DESCRIPTION      |
|-------------|----------|------------------|
| F901        | 252163   | 4A-UL/T-237,Fuse |

### 2. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

- 1.Press and hold down the TAPE 1 button, then press the DIRECT TUNING button.
- 2.After "CLEAR" is displayed, the preset memory stored in the memory, are initialized and will return to the factory setting.

### 3. Safety-check out

(Only U.S.A. model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer.

Connect the insulating-resistance tester between the plug of power supply cord and screw on the back panel.

Specifications: 3.3Mohm $\pm$ 10% at 500V.

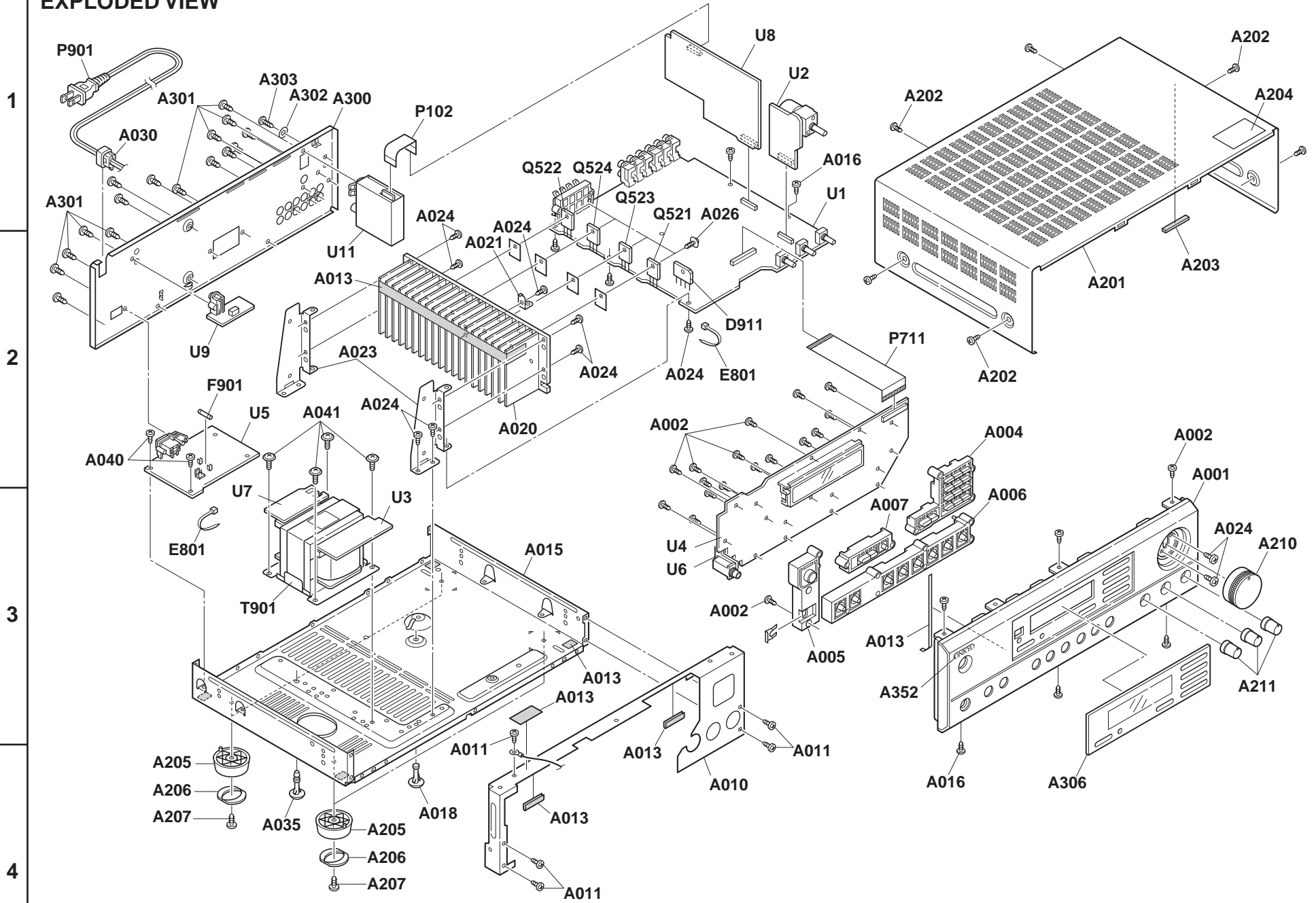
### 4. Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in order to charge the back-up system.

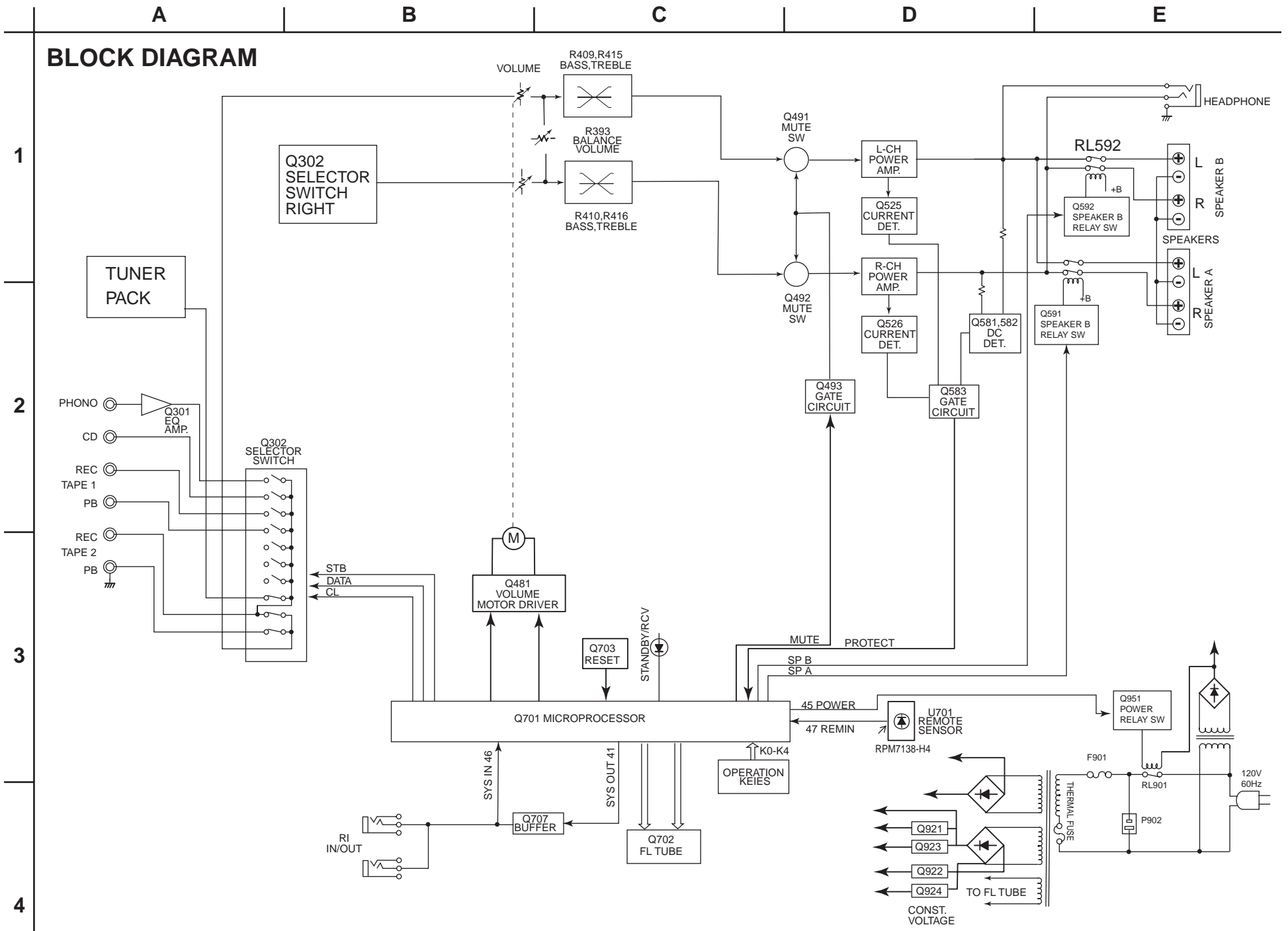
The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.

A B C D E

EXPLODED VIEW



**BLOCK DIAGRAM**



**SCHEMATIC DIAGRAM 1**  
**DISPLAY SECTION**

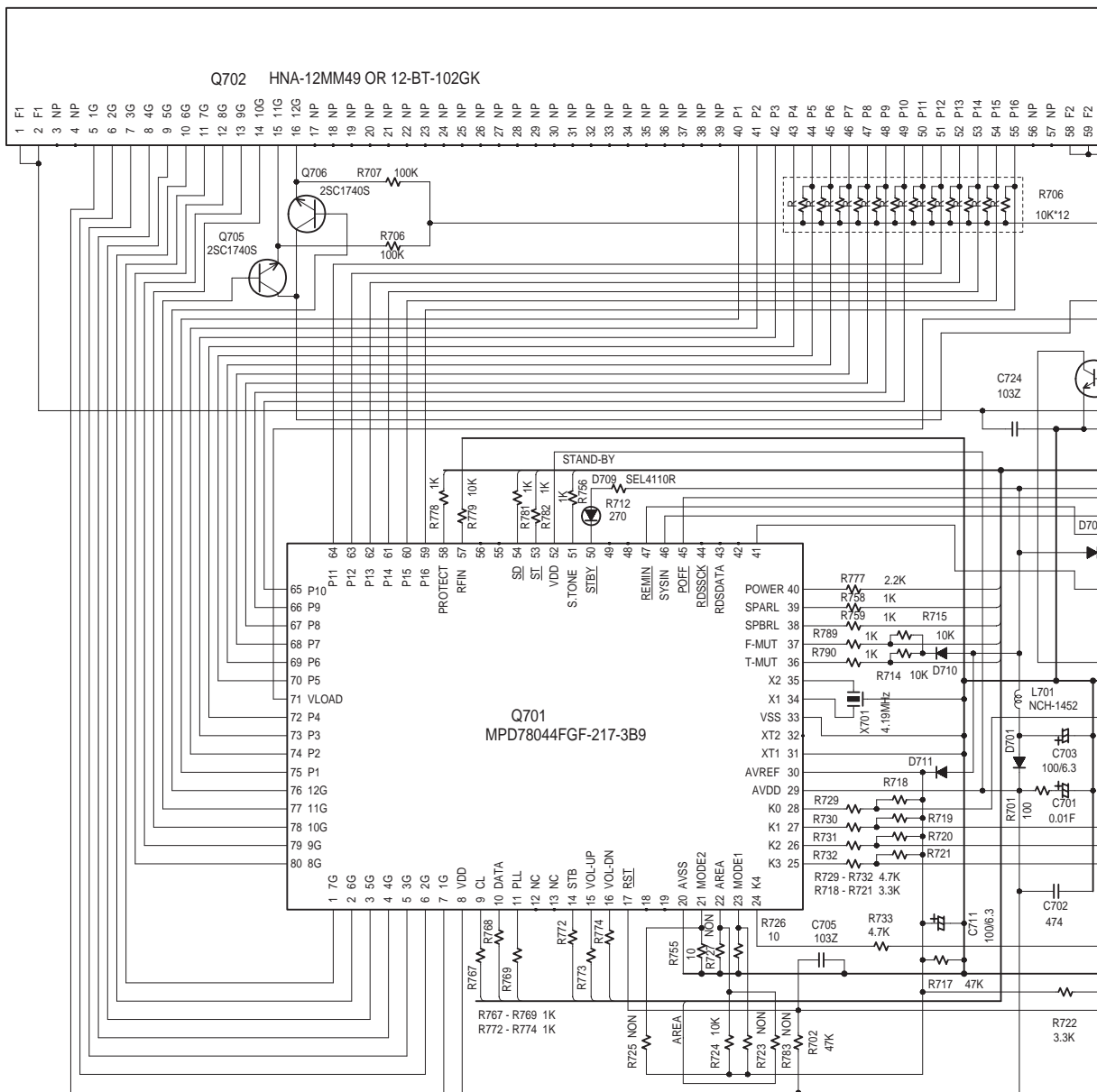
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**NOTE**

- THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE. (NO INPUT SIGNAL)
- ELECTROLYTIC CAPACITORS () ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50V/V UNLESS OTHERWISE NOTED.  
EX) 030k9pF 330x33pF 331x330pF 333x0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.  
EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

**CAUTION**

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.



**ATTENTION**

AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

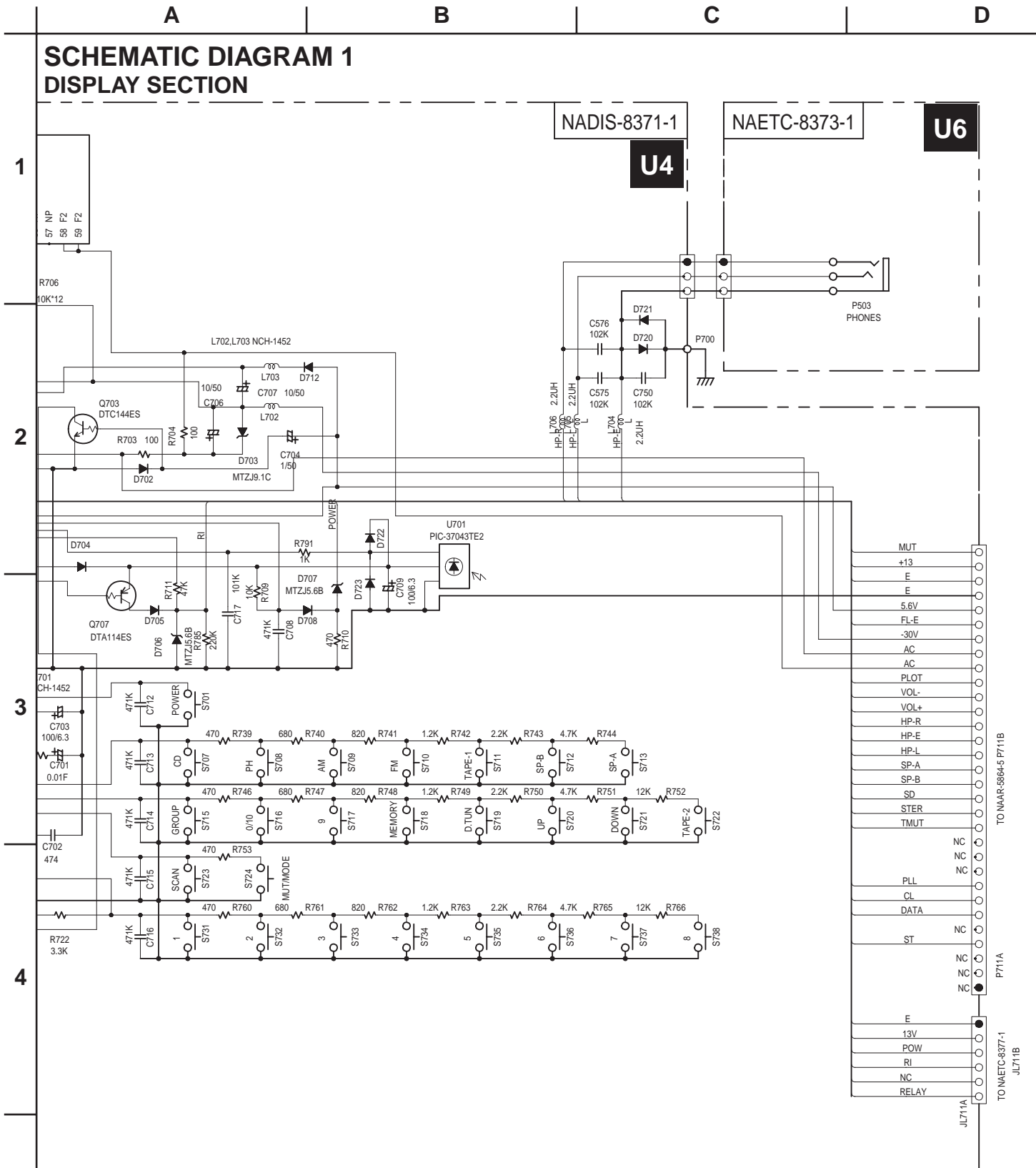


THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL



CE SYMBOLE INDIQUE QUE LE FUSIBLE UTILISE EST E LENT. POUR UNE PROTECTION PERMANENTE, UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DERNIER EST INDIQUE LA OU LE PRESENT SYMBOLE EST APPOSE.

**SCHEMATIC DIAGRAM 1  
DISPLAY SECTION**



**NOTE**

- THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
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EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

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FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.



**ATTENTION**

AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.



THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL



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TO NAAR-5664-5 P711B  
P711A  
TO NAETC-8377-1 JLT71B

# SCHEMATIC DIAGRAM 2 AMPLIFIER SECTION

A B C D

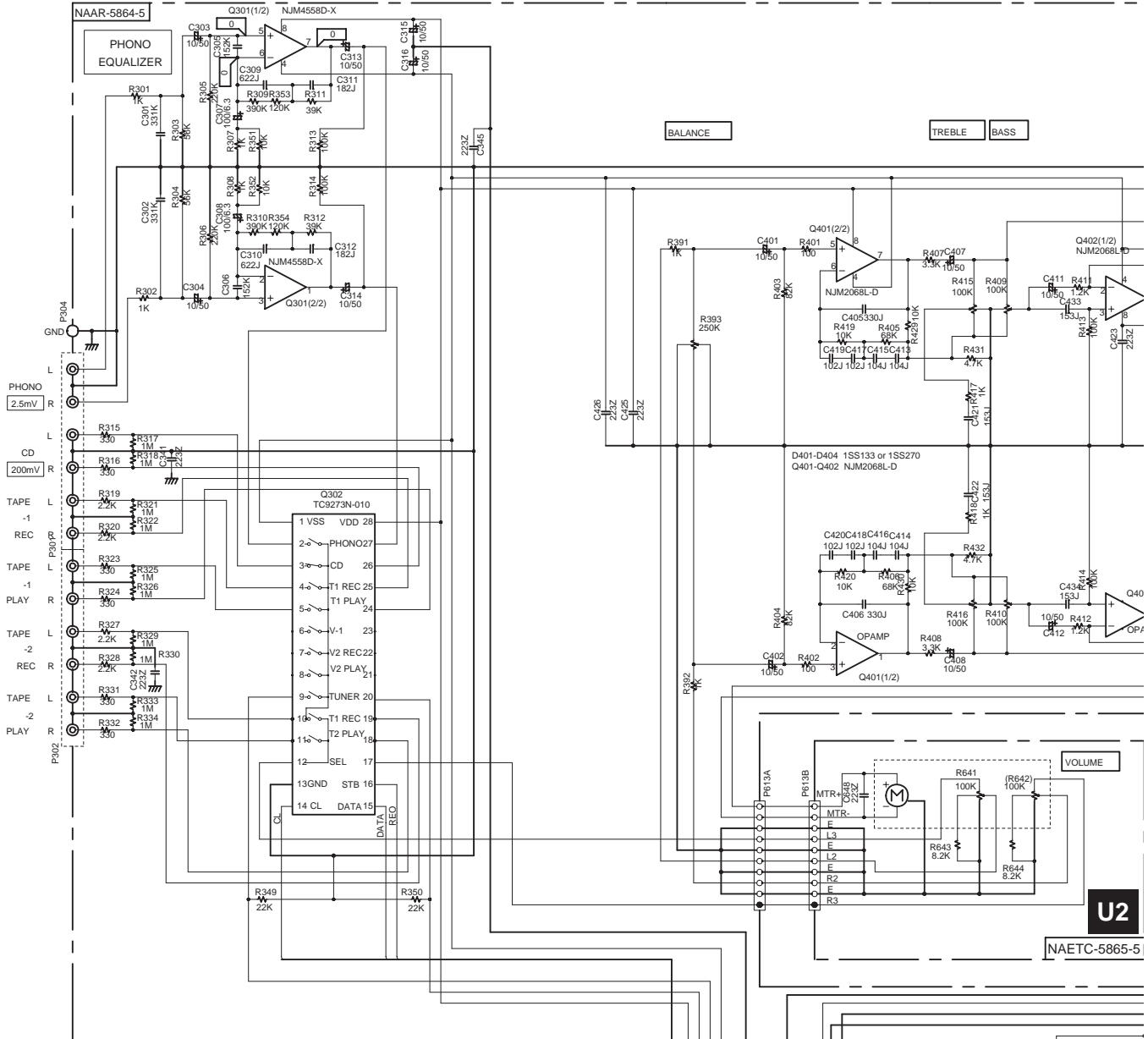
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**CAUTION**  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

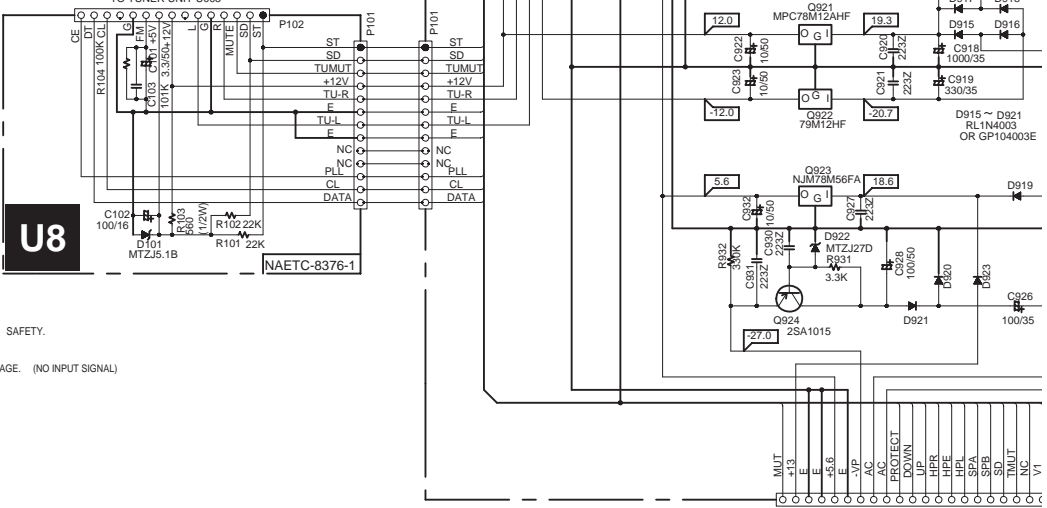
**ATTENTION**  
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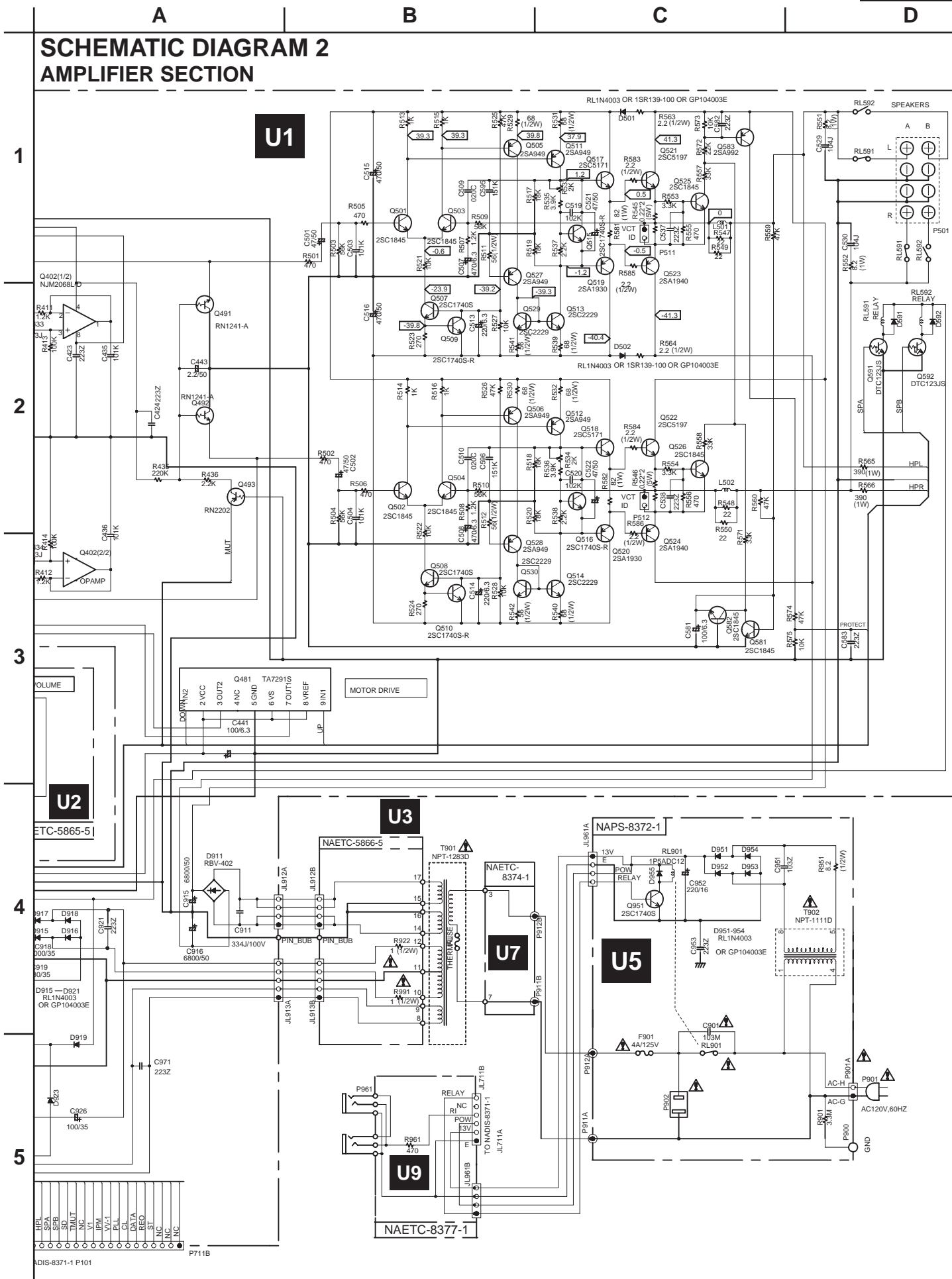
**NOTE**

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- VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE. (NO INPUT SIGNAL)
- ELECTROLYTIC CAPACITORS () ARE IN uF/MV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
- EX) 030x3pF 330x33pF 331x330pF
- ALL RESISTORS ARE IN OHMS 1/4W/5% UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.





# SCHEMATIC DIAGRAM 2 AMPLIFIER SECTION



# SCHEMATIC DIAGRAM 1 DISPLAY SECTION

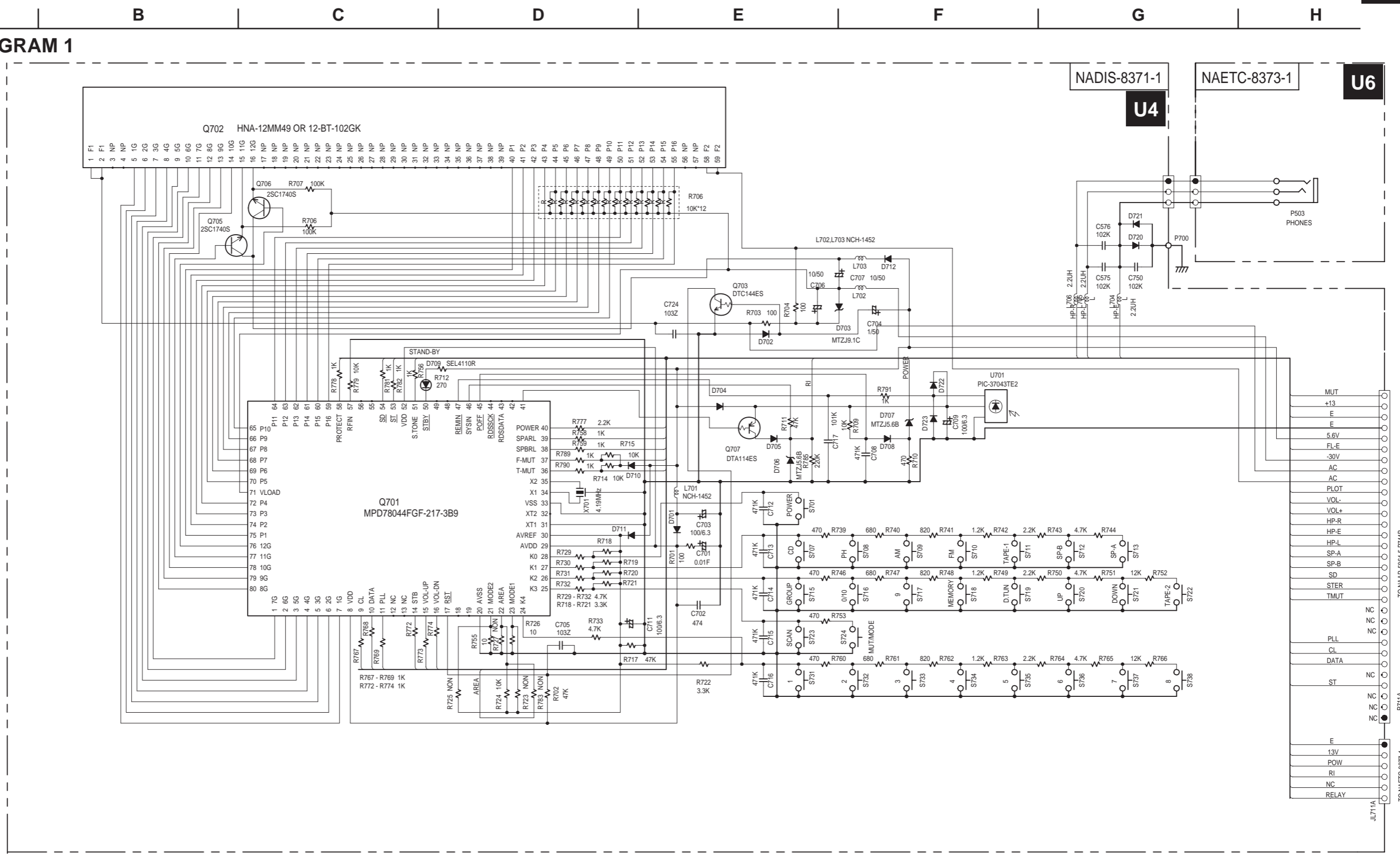
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**NOTE**

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- VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE. (NO INPUT SIGNAL)
- ELECTROLYTIC CAPACITORS () ARE IN  $\mu$ F/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
- EX) 030x3pF 330x33pF 331x330pF 333x0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

**CAUTION**

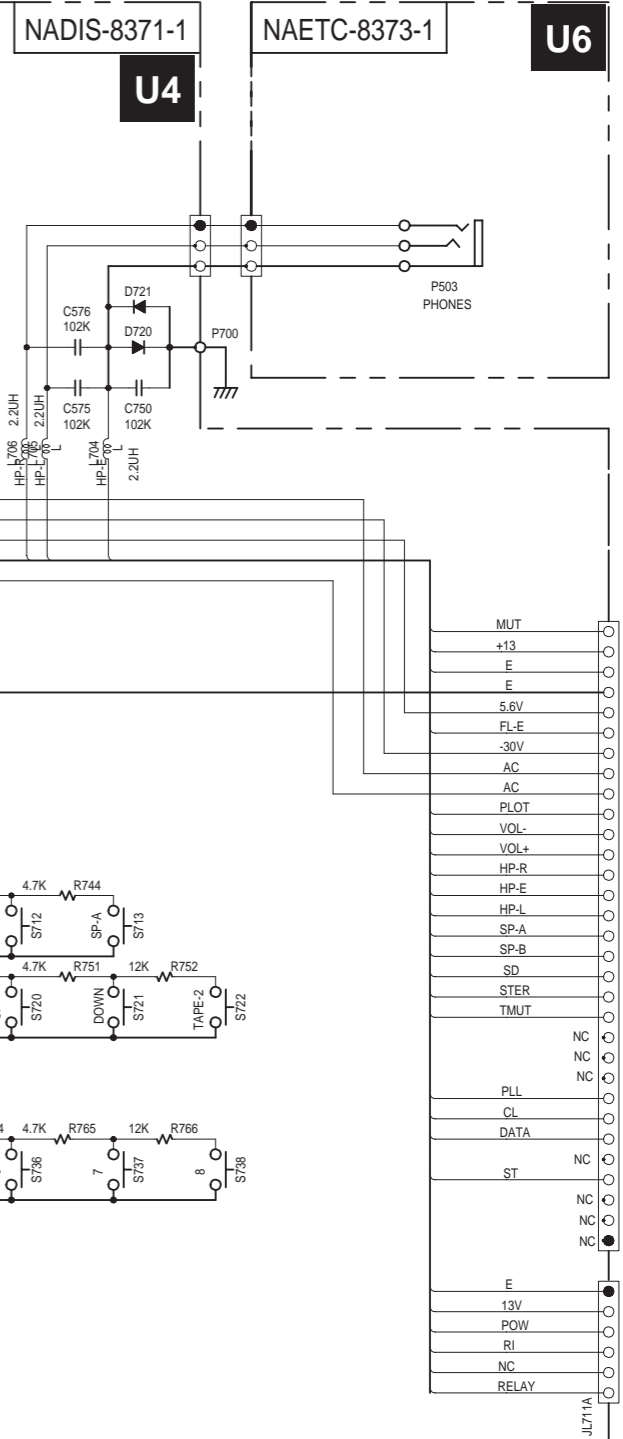
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

**ATTENTION**

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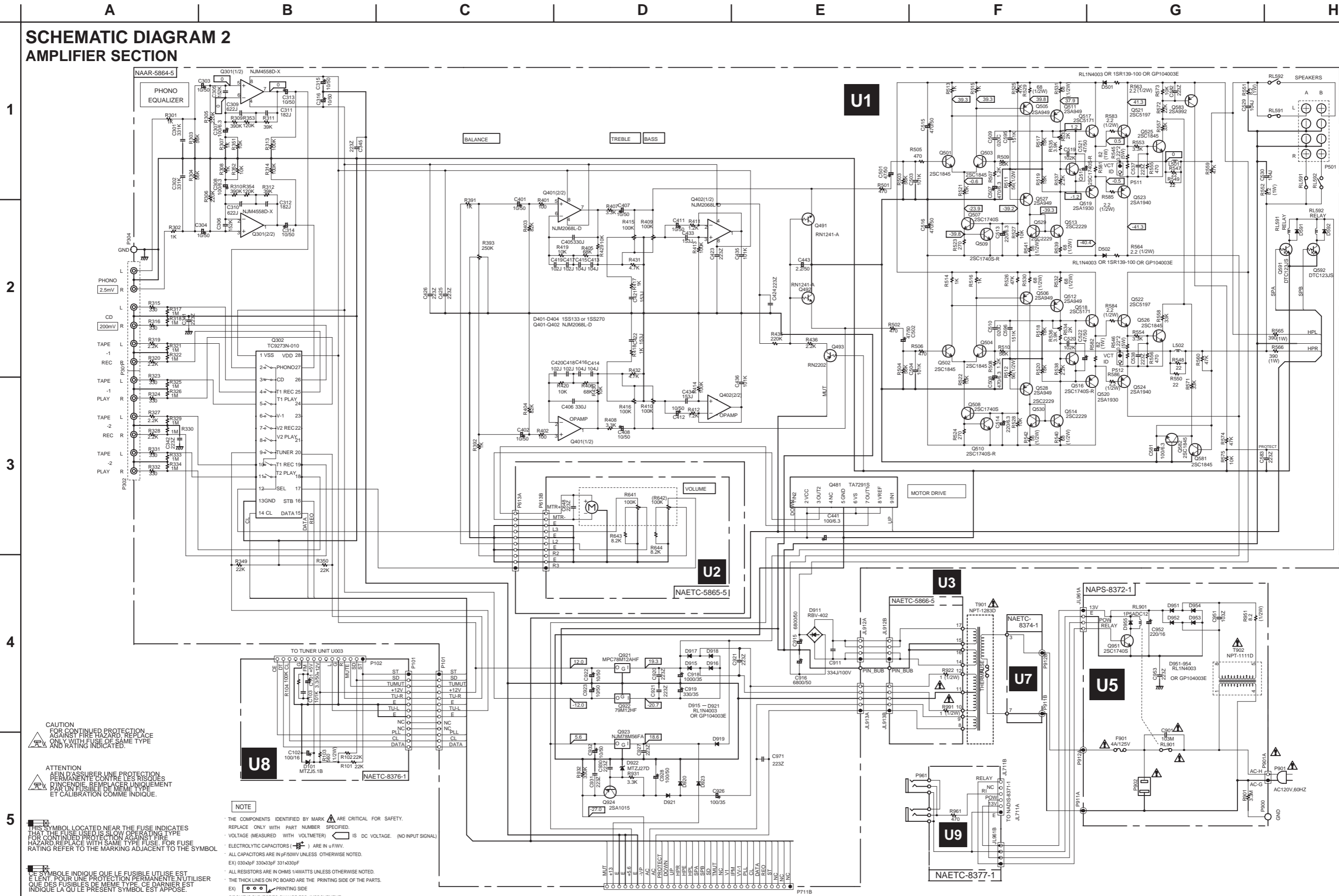
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CE SYMBOLE INDIQUE QUE LE FUSIBLE UTILISE EST E LENT. POUR UNE PROTECTION PERMANENTE, UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DERNIER EST INDIQUE LA QU LE PRESENT SYMBOLE EST APPOSE.



TO NAAR-8864-5 P711B  
P711A  
TO NAETC-8377-1  
JL711B

# SCHEMATIC DIAGRAM 2 AMPLIFIER SECTION



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**CAUTION**  
FOR CONTINUED PROTECTION  
AGAINST FIRE HAZARD, REPLACE  
ONLY WITH FUSE OF SAME TYPE  
AND RATING INDICATED.

**ATTENTION**  
Afin d'assurer une protection  
d'incendie, remplacez uniquement  
par un fusible de même type  
et de même valeur.

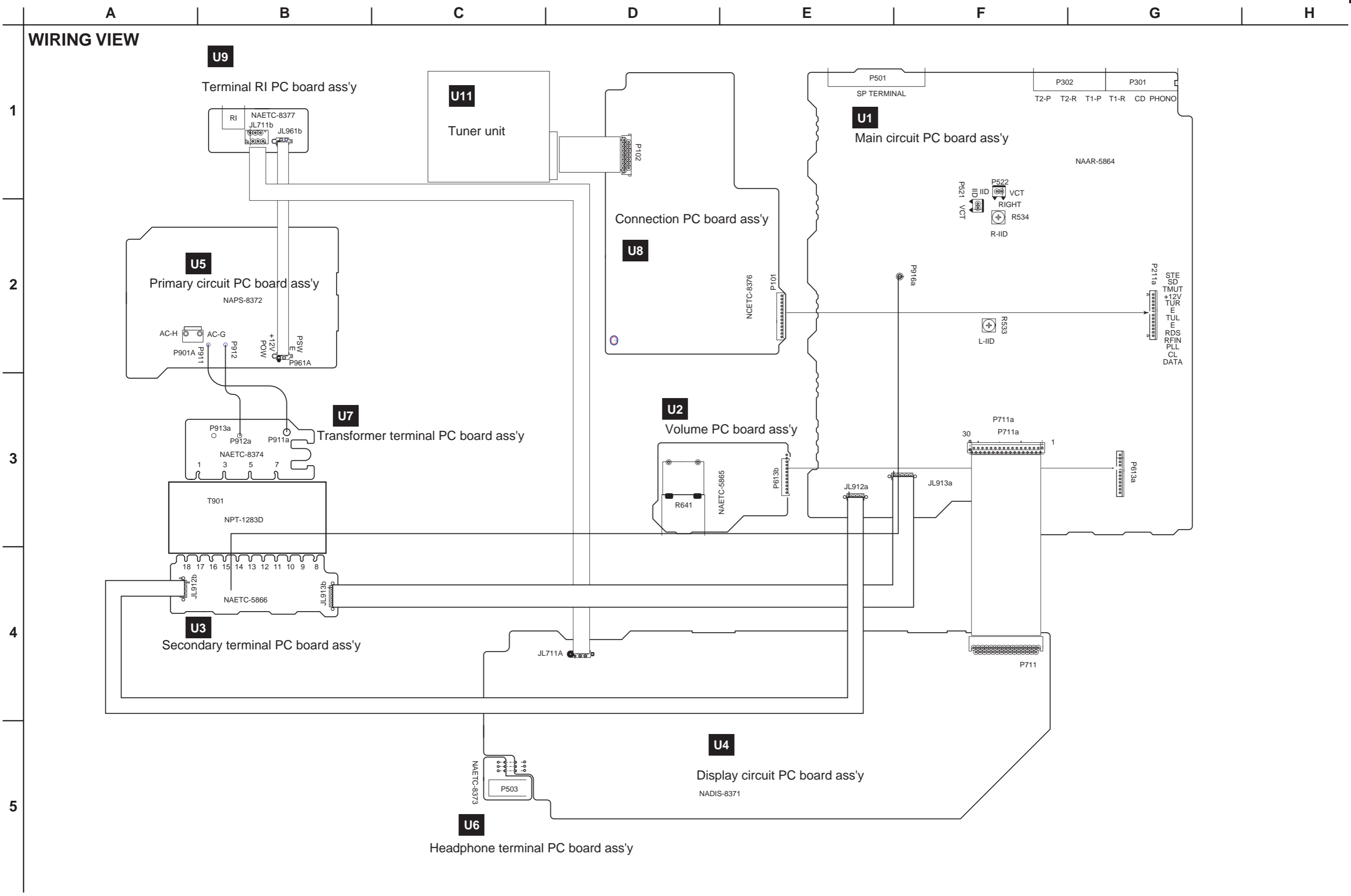
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- ALL CAPACITORS ARE IN pF UNLESS OTHERWISE NOTED.
- EX) 030x3pF 33x1x30pF
- ALL RESISTORS ARE IN OHMS 1/4Watts UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
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- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

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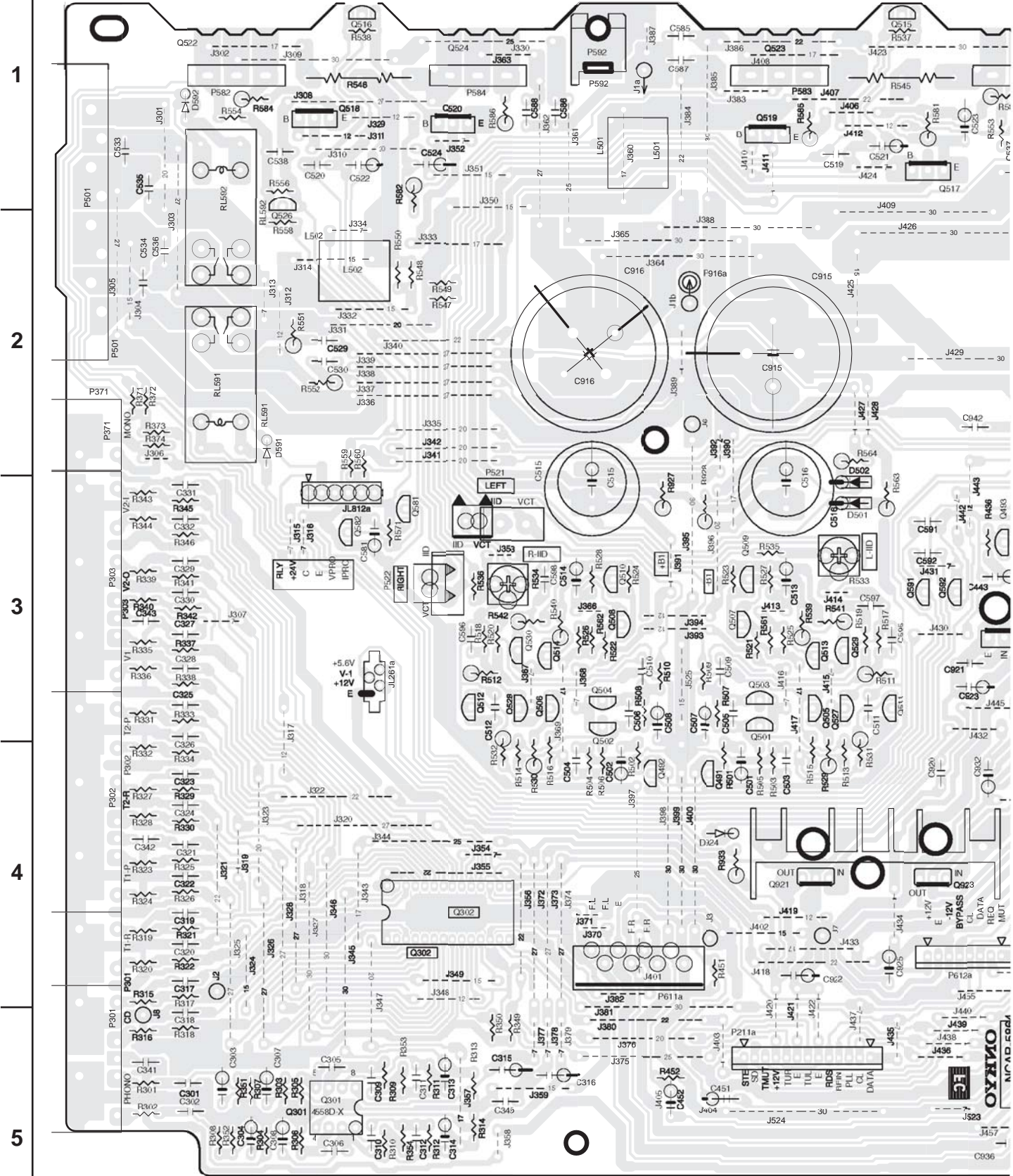
WIRING VIEW





A B C D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE



U1

NAAR-5864-5A, Main circuit PC board ass'y



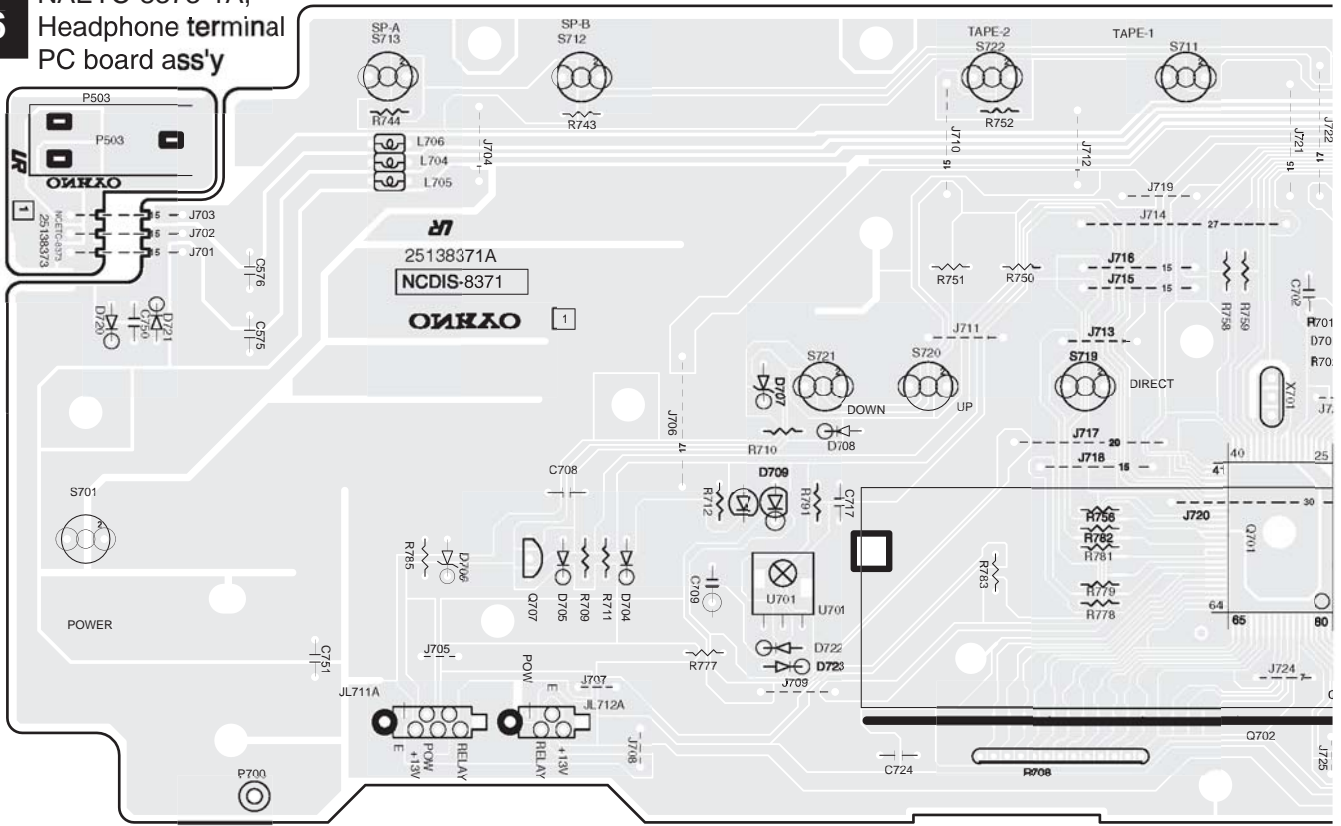




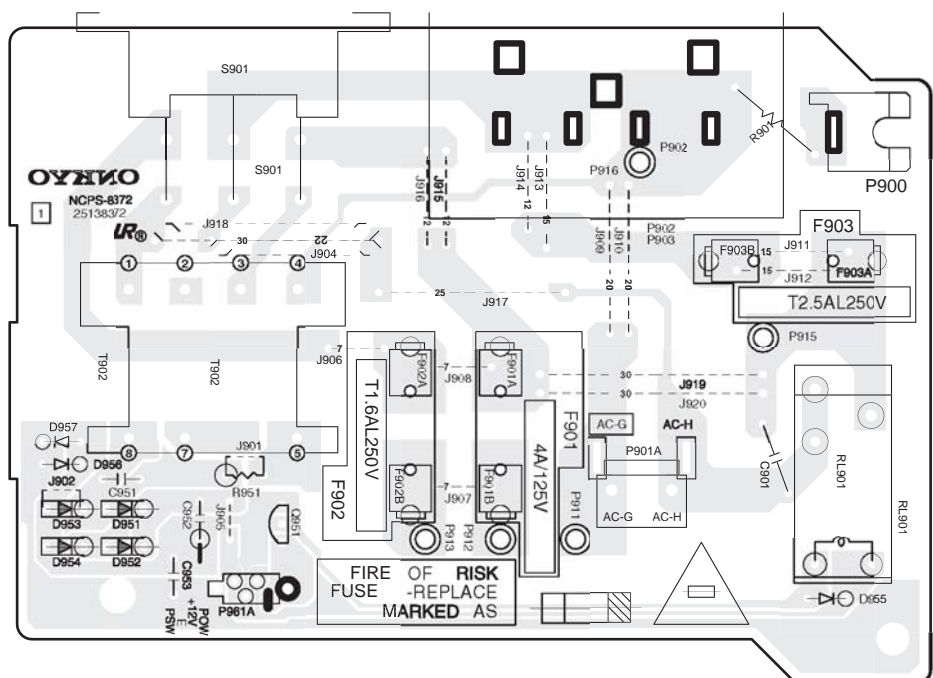
A B C D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE

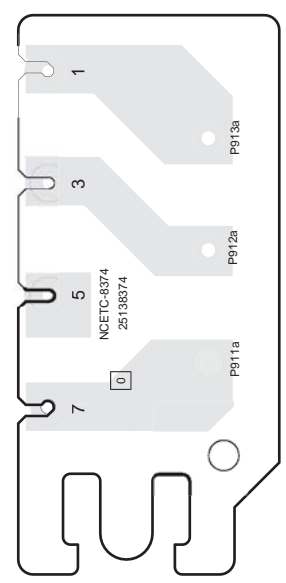
**U6** NAETC-8373-1A, Headphone terminal PC board ass'y



**U4** NADIS-8371-1A, Display circuit PC board ass'y



**U7**



NAETC-8374-1A, Transformer terminal PC board ass'y

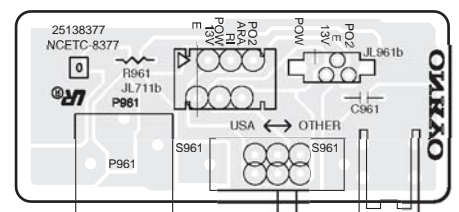
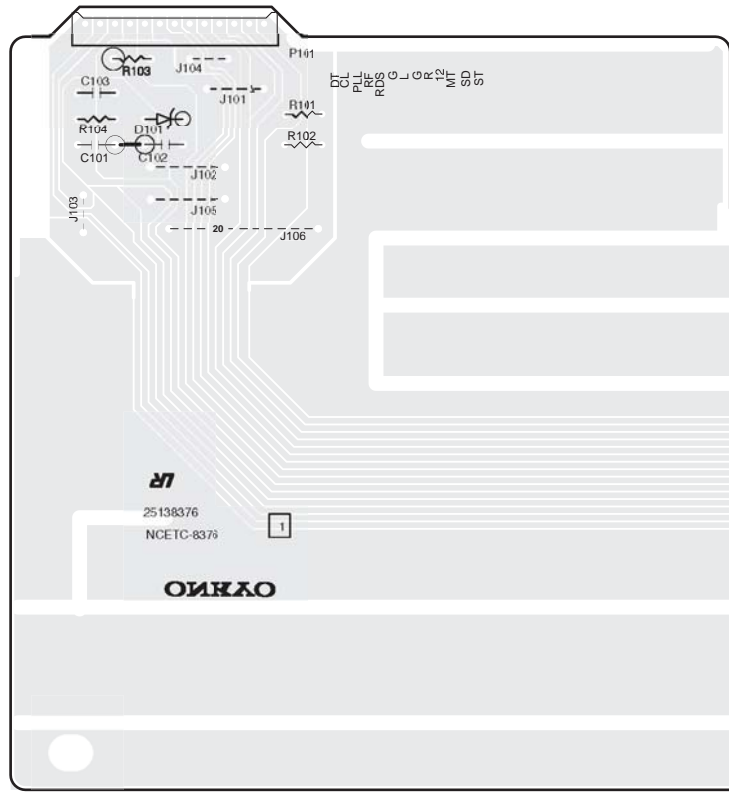
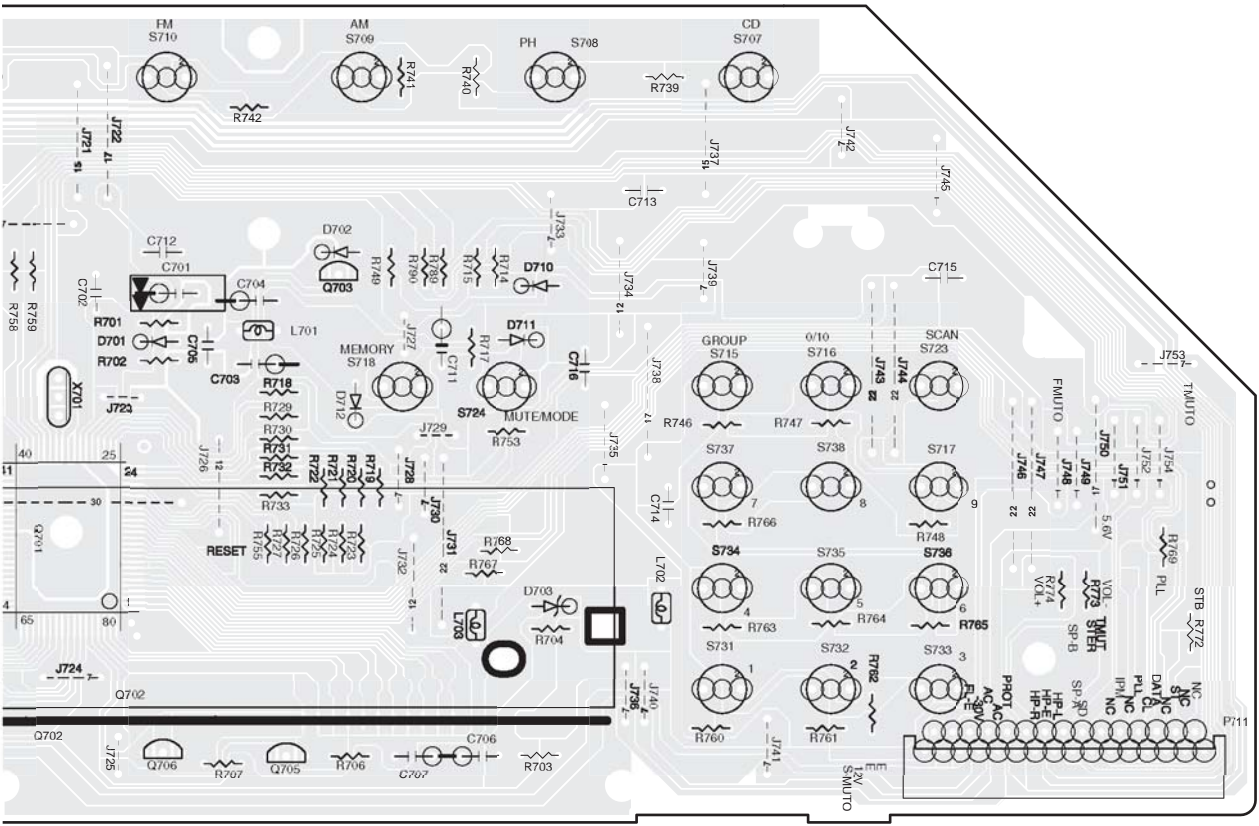
**U5** NAPS-8372-1A, Primary circuit PC board ass'y



A B C D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE

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2  
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4  
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**U9** NAETC-8377-1A, Terminal RI PC board ass'y

**U8** NAETC-8376-1A, Connection PC board ass'y



A B C D E F G H  
PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE

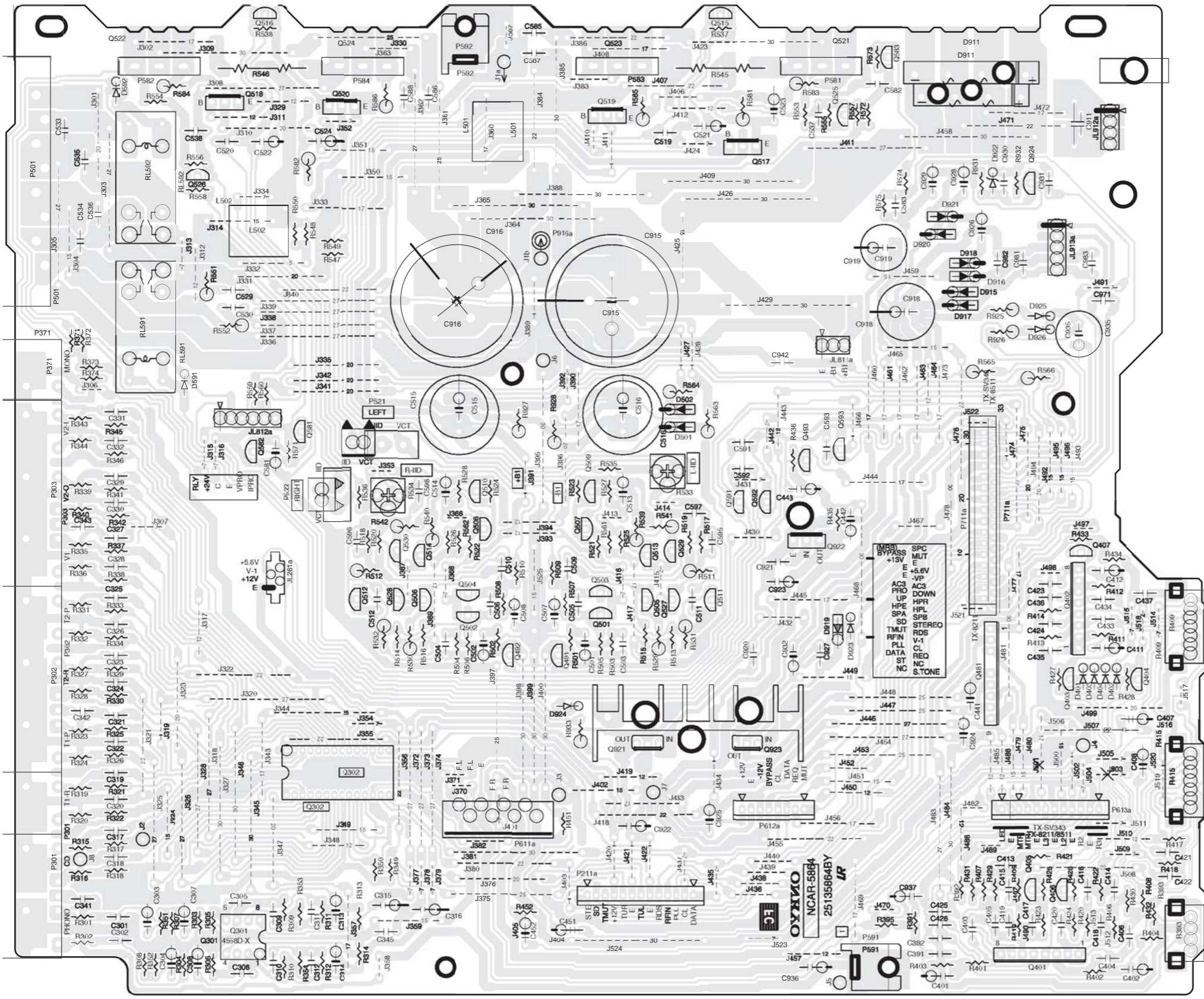
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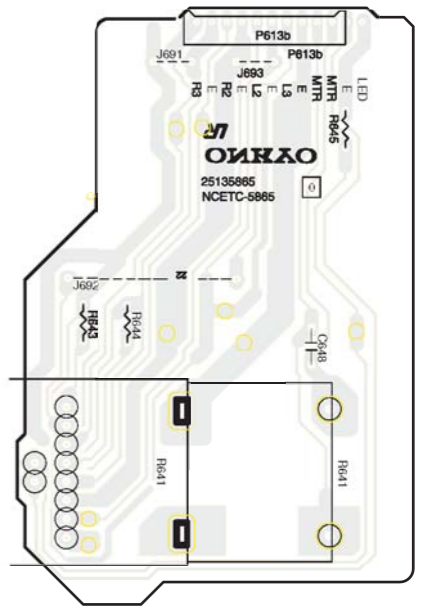
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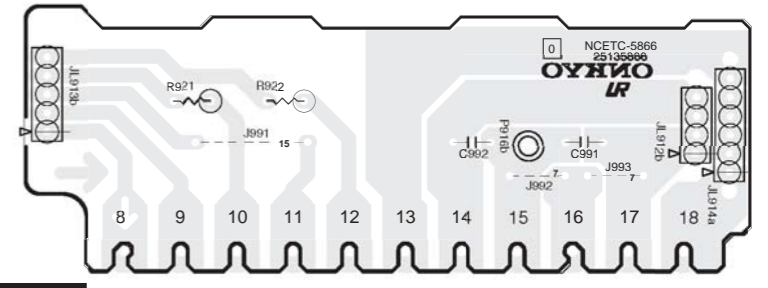
5



**U1** NAAR-5864-5A, Main circuit PC board ass'y



**U2** NAETC-5865-5A, Volume PC board ass'y



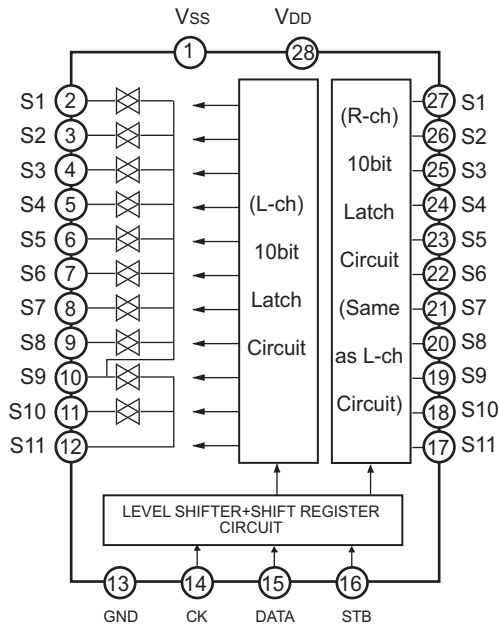
**U3** NAETC-5866-5A, Secondary terminal PC board ass'y





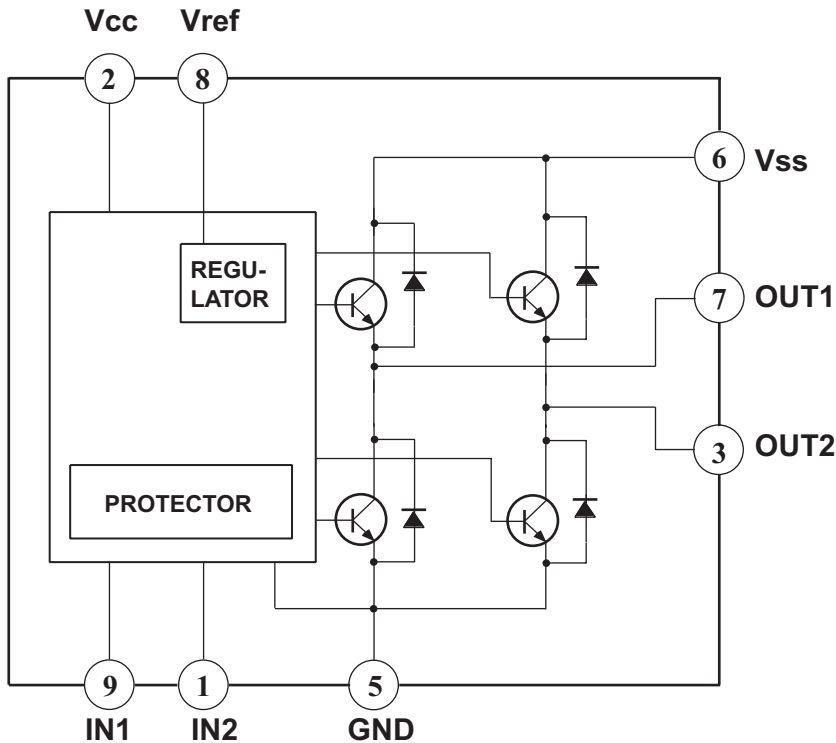
## IC BLOCK DIAGRAMS AND DESCRIPTIONS

### TC9273N-010(Analog Switch Array)



| Pin No. | Symbol | Description                                 |
|---------|--------|---|
| 1       | Vss    | Negative power supply pin                   |
| 13      | GND    | Digital ground pin                          |
| 28      | VDD    | Positive power supply pin                   |
| 2/27    | S1     | Input/Output pins                           |
| 3/26    | S2     |   |
| 4/25    | S3     |   |
| 5/24    | S4     |   |
| 6/23    | S5     |   |
| 7/22    | S6     |   |
| 8/21    | S7     |   |
| 9/20    | S8     |   |
| 10/19   | S9     |   |
| 11/18   | S10    |   |
| 12/17   | S11    |   |
| 14      | CK     | Clock input pin for data transfer.          |
| 15      | DATA   | Serial data input pin for setting switches. |
| 16      | STB    | Strobe input pin for data writing.          |

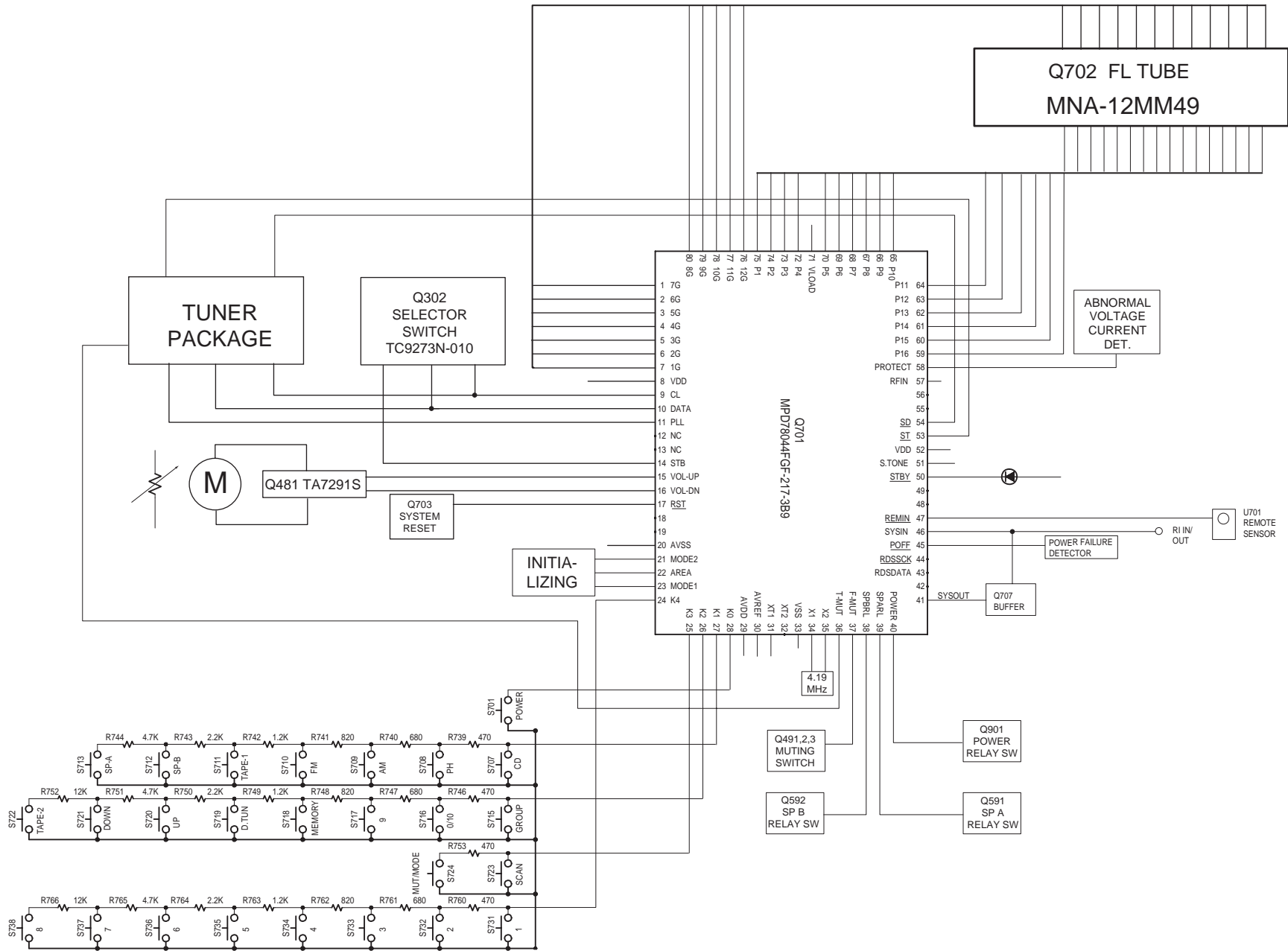
### TA7291S(Volume Motor Driver)



| INPUT |     | OUTPUT   |          | MODE   |
|-------|-----|----------|----------|--------|
| IN1   | IN2 | OUT1     | OUT2     |        |
| 0     | 0   | $\infty$ | $\infty$ | STOP   |
| 1     | 0   | H        | L        | CW/CCW |
| 0     | 1   | L        | H        | CCW/CW |
| 1     | 1   | L        | L        | BRAKE  |

CCW: Counter-clockwise direction  
 CW: Clockwise direction

# MICROPROCESSOR-CONNECTION DIAGRAM



## MICROPROCESSOR-TERMINAL DESCRIPTIONS

| Pin No. | Function | I/O | Description  |
|---------|----------|-----|--|
| 1-7     | 7G-1G    | O   | Grid control output pin                                |
| 8       | VDD      |     | Power supply pin                                       |
| 9       | CL       | O   | Clock output pin for selector switch and PLL IC.       |
| 10      | DATA     | O   | Data output pin for selector switch and PLL IC.        |
| 11      | PLL      | O   | Chip enable output pin for PLL IC.                     |
| 14      | STB      | O   | Chip enable output pin for selector switch IC.         |
| 15      | VOL UP   | O   | Volume control output pin                              |
| 16      | VOL DOWN | O   | Volume control output pin                              |
| 17      | RST      | I   | System reset input pin                                 |
| 20      | AVSS     |     | Ground pin for A/D converter                           |
| 21      | MODE2    | I   | Mode initializing pin                                  |
| 22      | AREA     | I   | Band area set initializing pin                         |
| 23      | MADE1    | I   | Mode initializing pin                                  |
| 24-28   | K4-K0    | I   | Operation key connection pin                           |
| 29      | AVDD     |     | A/D converter power supply pin                         |
| 30      | AVREF    |     | Reference voltage input pin for A/D converter          |
| 33      | VSS      |     | Ground pin   |
| 34,35   | X1,X2    |     | Main system clock pin. Connect the ceramic oscillator. |
| 36      | T-MUT    | O   | Muting control output pin for tuner section            |
| 37      | F MUT    | O   | Muting control output pin for amplifier section        |
| 38      | SPBRL    | O   | Speaker relay B control output pin                     |
| 39      | SPARL    | O   | Speaker relay A control output pin                     |
| 40      | POWER    | O   | Power relay control output pin                         |
| 41      | SYSOUT   | O   | System code output pin                                 |
| 45      | POFF     | I   | Power failure detection input pin                      |
| 46      | SYSIN    | I   | System code input pin                                  |
| 47      | REMIN    | I   | Remote control signal input pin                        |
| 50      | STBY     | O   | Standby indicator control pin                          |
| 52      | VDD      |     | Power supply pin                                       |
| 53      | ST       | I   | Stereo broadcast detection input pin                   |
| 54      | SD       | I   | Broadcast detection pin                                |
| 58      | PROTECT  | I   | Protection circuit detection pin                       |
| 59-70   | P18-P5   | O   | Segment control output pin                             |
| 71      | VLOAD    |     | Pull-down resistor connection pin                      |
| 72-75   | P4-P1    | O   | Segment control output pin                             |
| 76-80   | 12G-8G   | O   | Grid control output pin                                |

# ADJUSTMENT AND CONFIRMATION PROCEDURES 1

## Idling current adjustment

Before Idling adjustment, turn the trimming resistors R533 and R534 to counter clockwise.

Connect the DC voltmeter to terminals P521 and P522.

After turn POWER to ON, adjust the trimming resistors R533 and R534 so that the reading of voltmeter becomes 2.0 mV.

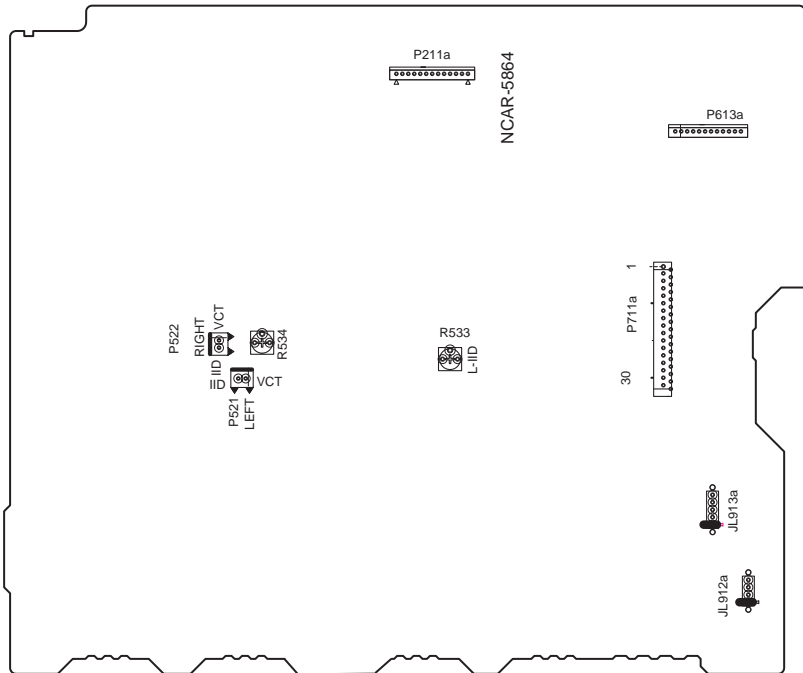
After adjustment, attach the top cover.

Confirm the voltage of points above after about five minutes.

When less than 7.0 mV, readjust the resistors above so that the voltage becomes 7.0 mV.

When 7.0 mV to 9.0 mV, you are not necessary to adjust.

When more than 9.0 mV, readjust the resistors above so that the voltage becomes 9.0 mV.



## Confirmation of protection circuit

### 1. Confirmation of operation of speaker relay

Confirm that the speaker relays turn ON approximate. 5 seconds after the power switch is turned ON.

Confirm that the speaker relays turn OFF immediately after the power switch is turned OFF.

### 2. Confirmation of DC detection circuit

Press and hold down CD button, then press DIRECT TUNING button.

After "TEST- " on the FL tube light on, press TAPE 1 button to set the unit to "TEST-1 00".

Apply DC 1.5 to 3V to CD terminal with no load.

Confirm that the speaker relay turns OFF.

Apply DC -1.5 to -3V to CD terminal with no load.

Confirm that the speaker relay turns OFF.

Caution: Don't apply DC voltage more than 1 sec..

## ADJUSTMENT AND CONFIRMATION PROCEDURES 2

### 3. Confirmation of Current detection circuit

Set the unit to "TEST-1 00".

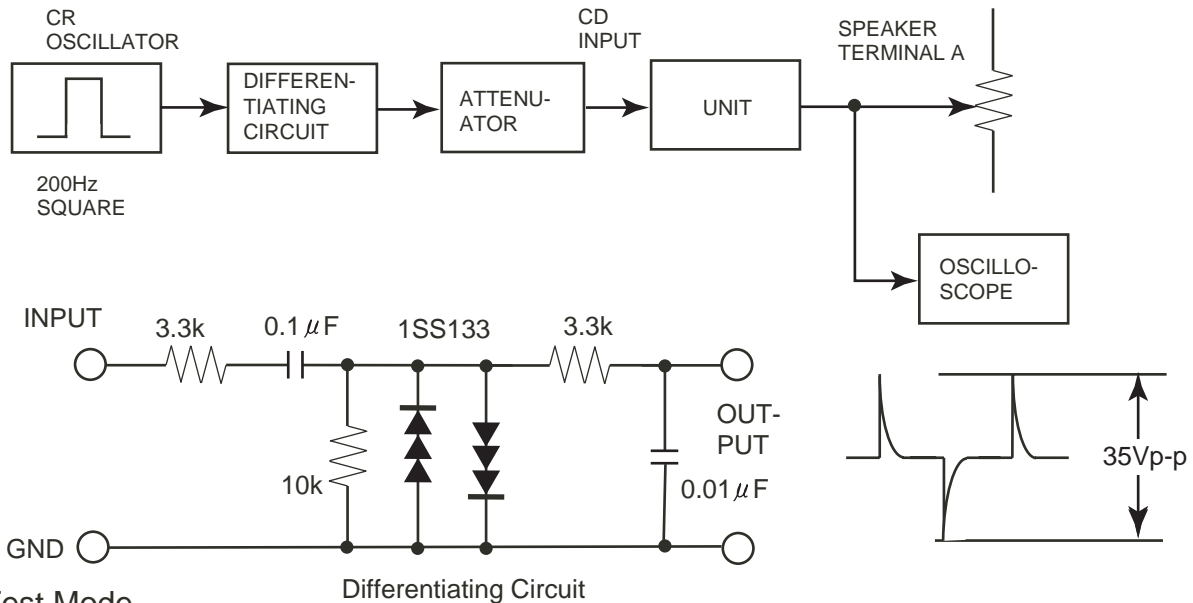
Connect the differentiating circuit and apply the 200Hz square signal to CD terminal of each channel.

Adjust the attenuator or Volume so that the output level becomes 35V p-p.

Confirm that the speaker relay does not turn OFF when a 2.0 ohm load is connected.

Confirm that "Protect" indicator lights on when a 0.5 ohm load is connected.

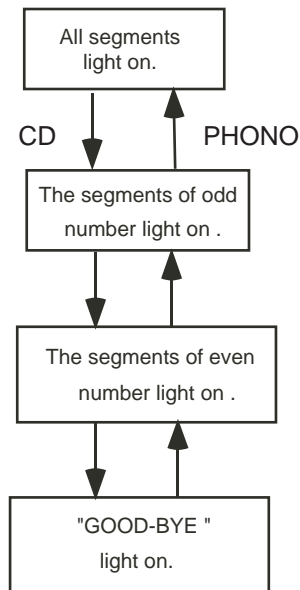
Caution: Don't continue more than 3 seconds.



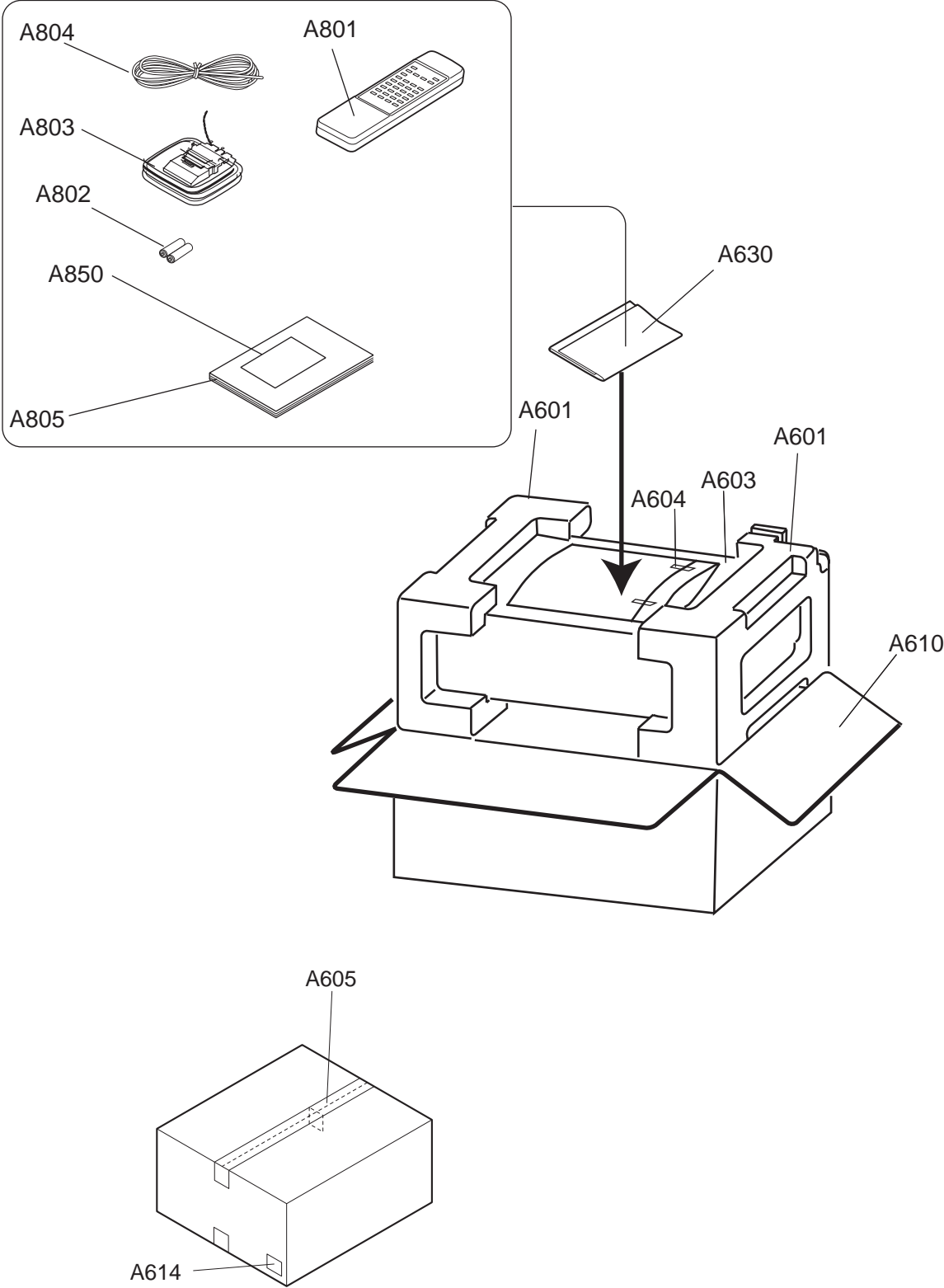
#### Test Mode

1. Turn POWER button on.
2. Press and hold down CD button, then press DIRECT TUNING button.
3. After "TEST-" on the FL tube is displayed, press CD button to set the unit to the test mode of FL tube.

#### Test mode of FL tube



PACKING VIEW





**EXPLODED VIEW-PARTS LIST**

NOTE: THE COMPONENTS IDENTIFIED BY MARK !  
ARE CRITICAL FOR RISK OF FIRE AND  
ELECTRIC SHOCK. REPLACE ONLY WITH  
PART NUMBER SPECIFIED.

| REF.NO.   | PART NO.      | DESCRIPTION                     |
|-----------|---------------|---------------------------------|
| A001      | 27212724      | Front panel                     |
| A002      | 838130088     | 3TTB+8B,Screw                   |
| A004      | 28326246      | Knob,function                   |
| A005      | 28326247      | Knob,power                      |
| A006      | 28326248      | Konb,selector                   |
| A007      | 28326249      | Knob,tuning                     |
| A010      | 27141946      | Retainer F                      |
| A011      | 838130088     | 3TTB+8B,Screw                   |
| A013      | 29110083      | Tape,cloth                      |
| A015      | 27100321B     | Chassis                         |
| A016      | 838430088     | 3TTB+8B(BC),Screw               |
| A018      | 27190991      | Holder                          |
| A020      | 27160378      | Heat sink                       |
| A021      | 27141530A     | Retainer                        |
| A023      | 27141672      | Retainer H                      |
| A024      | 838130088     | 3TTB+8B,Screw                   |
| A026      | 801433        | 3SMS8W.SW+14B(BC),Special screw |
| A030      | 27300750      | ! Bushing                       |
| A035      | 27190266-1 or | LSR-12R or                      |
|           | 27190266      | KGLS-12RT,Holder                |
| A040      | 838130088     | 3TTB+8B,Screw                   |
| A041      | 830440089     | 4TTC+8C(BC),Screw               |
| A201      | 28184663-1    | Top cover                       |
| A202      | 838430088     | 3TTB+8B(BC),Screw               |
| A203      | 28141240      | Cushion                         |
| A204      | 29362772      | Label,cover                     |
| A205      | 27175319B     | Leg                             |
| A206      | 28141494      | Cushion                         |
| A207      | 838130088     | 3TTB+8B,Screw                   |
| A210      | 28325456      | Knob,volume                     |
| A211      | 28325454      | Knob,tone                       |
| A300      | 27123379      | Back panel                      |
| A301      | 838430088     | 3TTB+8B(BC),Screw               |
| A302      | 87643010      | W3*10F(BC),Flat washer          |
| A303      | 838930088     | 3TTB+8B(UN),Screw               |
| A306      | 28192054      | Clear plate                     |
| A352      | 28135244      | Badge                           |
| E801      | 260208        | Wire tie                        |
| F901      | 252163        | ! 4A-UL/T-237,Fuse              |
| P102      | 2047150522    | NCFC7-150522,Flexible cable     |
| P711      | 2047311512    | NCFC7-311512,Flexible cable     |
| P901      | 253368LTK,    | ! AS-UC-2,Power supply cord     |
| Q521,Q522 | 2203043       | 2SC5197-O,Transistor            |
| Q523,Q524 | 2203033       | 2SA1940-O,Transistor            |
| T901      | 2301220       | ! NPT-1283D,Power transformer   |

| REF.NO. | PART NO.             | DESCRIPTION                                       |
|---------|----------------------|---|
| U1      | 1B042564-5A          | NAAR-5864-5A,Main circuit PC board ass'y          |
| U2      | 1B042565-5A          | NAETC-5865-5A,Volume PC board ass'y               |
| U3      | 1B042566-5A          | NAETC-5866-5A,Secondary terminal PC board ass'y   |
| U4      | 1B042571-1A          | NADIS-8371-1A,Display circuit PC board ass'y      |
| U5      | 1B042572-1A          | NAPS-8372-1A,Primary circuit PC board ass'y       |
| U6      | 1B042573-1A          | NAETC-8373-1A,Headphone terminal PC board ass'y   |
| U7      | 1B042574-1A          | NAETC-8374-1A,Transformer terminal PC board ass'y |
| U8      | 1B042576-1A          | NAETC-8376-1A,Connection PC board ass'y           |
| U9      | 1B042577-1A          | NAETC-8377-1A,Terminal RI PC board ass'y          |
| U11     | 240146 or<br>240134A | FAE385-A02F or<br>TFCE1U114B,Tuner unit           |

**PACKING VIEW-PARTS LIST**

| REF.NO. | PART NO.    | DESCRIPTION               |
|---------|-------------|---------------------------|
| A355    | 29363194    | Label                     |
| A601    | 29091763A   | Pad ass'y                 |
| A603    | 29100034-1A | 850*650,Polybag           |
| A604    | 29110149    | Tape, cellophane          |
| A605    | 29110148    | Tape PP                   |
| A606    | 29095906    | Sheet                     |
| A610    | 29054302A   | Carton box                |
| A614    | 29364023    | Label UPC                 |
| A630    | 29100097-1A | 350*250,Polybag           |
| A801    | 24140330    | RC-330S,Remote control    |
| A802    | 3010054     | R6/AA(UM-3),Two batteries |
| A803    | 232140      | NMA-3057,AM loop antenna  |
| A804    | 292142      | FM antenna                |
| A805    | 29343912    | Instruction manual        |
| A850    | 29365090B   | Warranty card             |

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