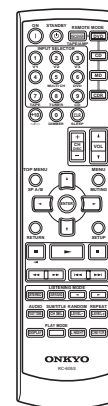
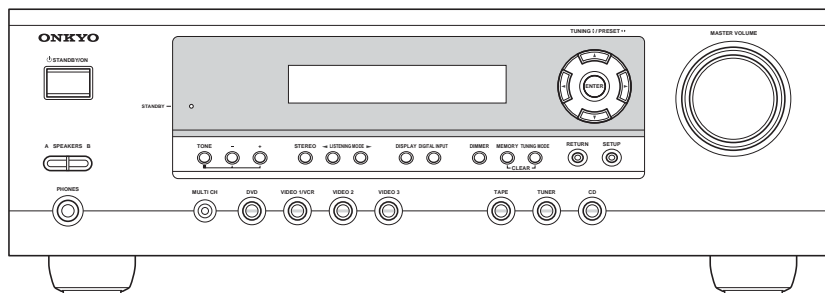


# ONKYO SERVICE MANUAL

## AV RECEIVER MODEL TX-SR303 MODEL TX-SR303E



RC-605S

### TX-SR303 Silver model

MDD	120V AC, 60Hz
-----	---------------

### TX-SR303E Silver model

MPP	230-240V AC, 50Hz
-----	-------------------

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  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.

# SPECIFICATION

## Amplifier Section

### Power Output

2 channel driven:	North American: <b>65 W + 65 W</b> <b>(8Ω, 20Hz-20kHz, FTC)</b> European: 90 W + 90 W (6Ω, 1kHz, DIN)
Dynamic Power	160 W + 160 W (3Ω, Front) 125 W + 125 W (4Ω, Front) 85 W + 85 W (8Ω, Front)

### THD

(Total Harmonic Distortion) 0.08% (Power Rated)

Damping Factor 60 (Front, 1kHz, 8Ω)

Input Sensitivity and Impedance 200 mV/ 47 kΩ (LINE)

Output Level and Impedance 200 mV/ 470 Ω (REC OUT)

Frequency Response 10 Hz-100 kHz/ +1 dB-3 dB (Direct mode)

Tone Control ±10 dB, 50 Hz (BASS)

±10 dB, 20 kHz (TREBLE)

Signal to Noise Ratio 100 dB (LINE IHF-A)

Speaker Impedance 6 Ω -16 Ω

### Video Section

Input Sensitivity/Output Level and Impedance 1 Vp-p /75 Ω (Composite)

## Tuner Section

### ■ FM

Tuning Frequency Range North American: 87.5 MHz-107.9 MHz

European: 87.5 MHz-108.0 MHz

Usable Sensitivity Stereo: 17.2 dBf 2 μV(75 Ω IHF)

Mono: 11.2 dBf 1 μV(75 Ω IHF)

Signal to Noise Ratio Stereo: 70 dB (IHF-A)

Mono: 76 dB (IHF-A)

THD Stereo: 0.3% (1kHz)

Mono: 0.2% (1kHz)

Frequency Response 30 Hz-15 kHz / ±1 dB

Stereo Separation 45 dB (1kHz)

### ■ AM

Tuning Frequency Range North American: 530 kHz-1710 kHz

European: 531 kHz-1611 kHz

Usable Sensitivity 30 μV

Signal to Noise Ratio 40 dB

THD 0.70%

## General

Power Supply	North American: AC 120 V, 60 Hz European: AC 230-240 V, 50 Hz
Power Consumption	North American: 4.2 A European: 360 W
Stand-by Power Consumption	North American: 0.1 W European: 0.2 W
Dimensions (W x H x D)	435 x 150 x 369 mm 17-1/8" x 5-7/8" x 14-1/2"
Weight	North American and European: 8.5 kg 18.7 lbs.

### ■ Video Inputs

Composite DVD, VIDEO1, VIDEO2, VIDEO3

### ■ Video Outputs

Composite MONITOR OUT, VIDEO1

### ■ Audio Inputs

Digital Inputs Optical: 1  
Coaxial: 1  
Analog Inputs DVD(MULTICHANNEL), VIDEO1,  
VIDEO2, VIDEO3, TAPE, CD  
Multichannel Inputs 6

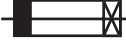
### ■ Audio Outputs

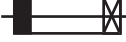
Analog Outputs TAPE, VIDEO1  
Subwoofer Pre Outputs 1  
Speaker Outputs SP-A (L, R, C, SL, SR) + SP-B (L, R)  
Phones 1

Specifications and features are subject to change without notice.

# SERVICE PROCEDURE

## 1. Replacing the fuses

 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, n'utiliser que des fusibles de meme type. Ce dernier est indique la qu le present symbol est appose.

REF NO.	PART NAME	DESCRIPTION	PART NO.	REMARKS	<Notes>
F901	FUSE	6.3A-UL/T-237	252166	!, <303>	<303> : TX-SR303 Only
F901 or	FUSE	6.3A-T/UL-ST2	252260	!, <303>	<303E> : TX-SR303E(European model) Only
F902	FUSE	3.15A-SE-EAK FUSE	252076	!, <303E>	
F902 or	FUSE	3.15A-SE-TL250V	252242	!, <303E>	
F902 or	FUSE	3.15A-SE-TL250V	252276	!	
F6901	FUSE	8A-UL	252198	!	
F6901 or	FUSE	8A-T/UL-ST2	252261	!	
F6902	FUSE	8A-UL	252198	!	
F6902 or	FUSE	8A-T/UL-ST2	252261	!	

## 2. 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 terminal GND on the back panel.  
Specifications: More than 10Mohm at 500V

## 3. To initialize the unit

1. Press and the hold down the VIDEO 1/VCR button , then press the STANDBY/ON button when the unit is Power on.
2. After " *Clear* " is displayed, the preset memory and each mode stored in the memory, are initialized and will return to the factory settings.

## 4. To check version of microprocessor

<Note>

Main microprocessor Q701 only.

1. Press and the hold down the DISPLAY button , then press the STANDBY/ON button when the unit is Power on.  
Version is displayed on FL display only for 3 seconds.

Ex.

*Ver.0.50/05131a*

2. Press the STANDBY/ON button to Power off.

## 5. Memory Backup

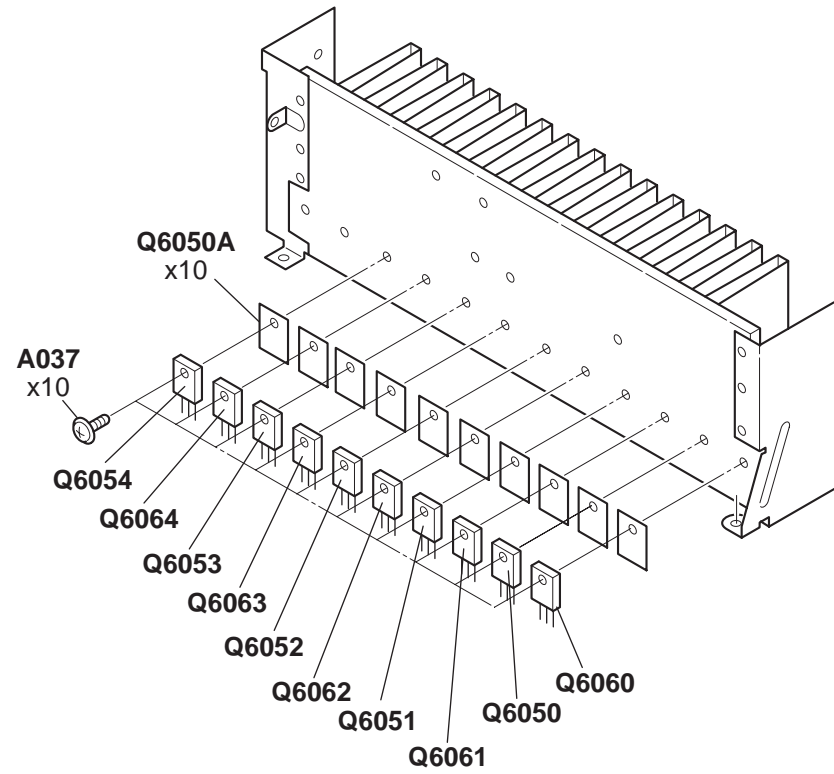
The AV receiver uses a battery-less memory backup system in order to retain radio presets and other settings when it's unplugged or in the case of a power failure.

Although no batteries are required, the AV receiver must be plugged into an AC outlet in order to charge the backup system. Once it has been charged, the AV receiver will retain the settings for several weeks, although this depends on the environment and will be shorter in humid climates.



# EXPLODED VIEWS-2

<Fig-1>



SCHEMATIC DIAGRAMS-1

AUDIO INPUT SECTION

TO NADG-8514

APPLY MODELS & CODE

CODE	MODEL
T3	TX-SR303
H3	HT-R330
T4	TX-SR403 / TX-SR8340
H4	HT-R430
T5	TX-SR503/503E / TX-SR8350
A5	TX-SA503
H5	HT-R530
T6	TX-SR603 / TX-SR8360
A6	TX-SA603

NAAF-8523

**U05**  
AMPLIFIER PC BOARD (1/2)

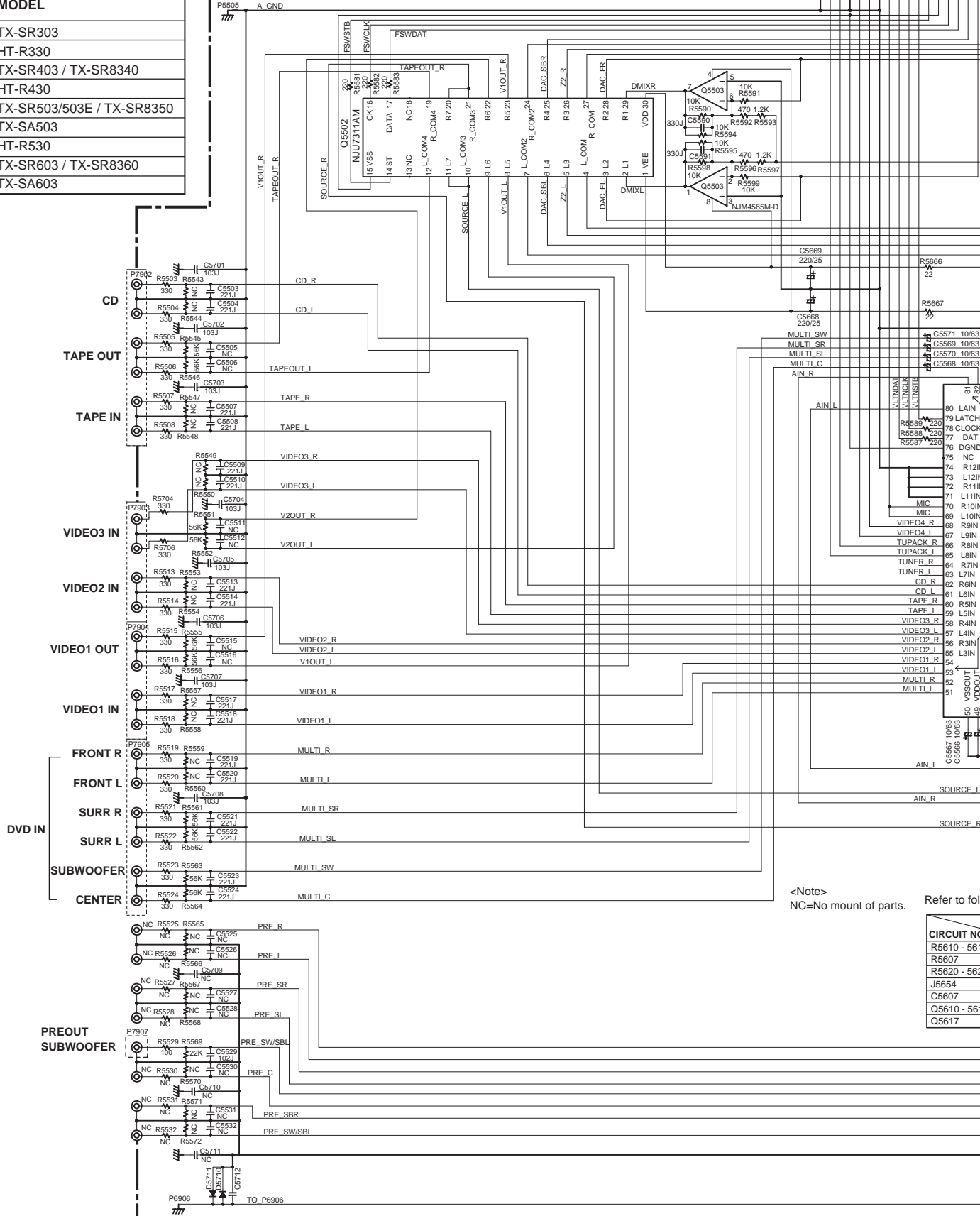
1

2

3

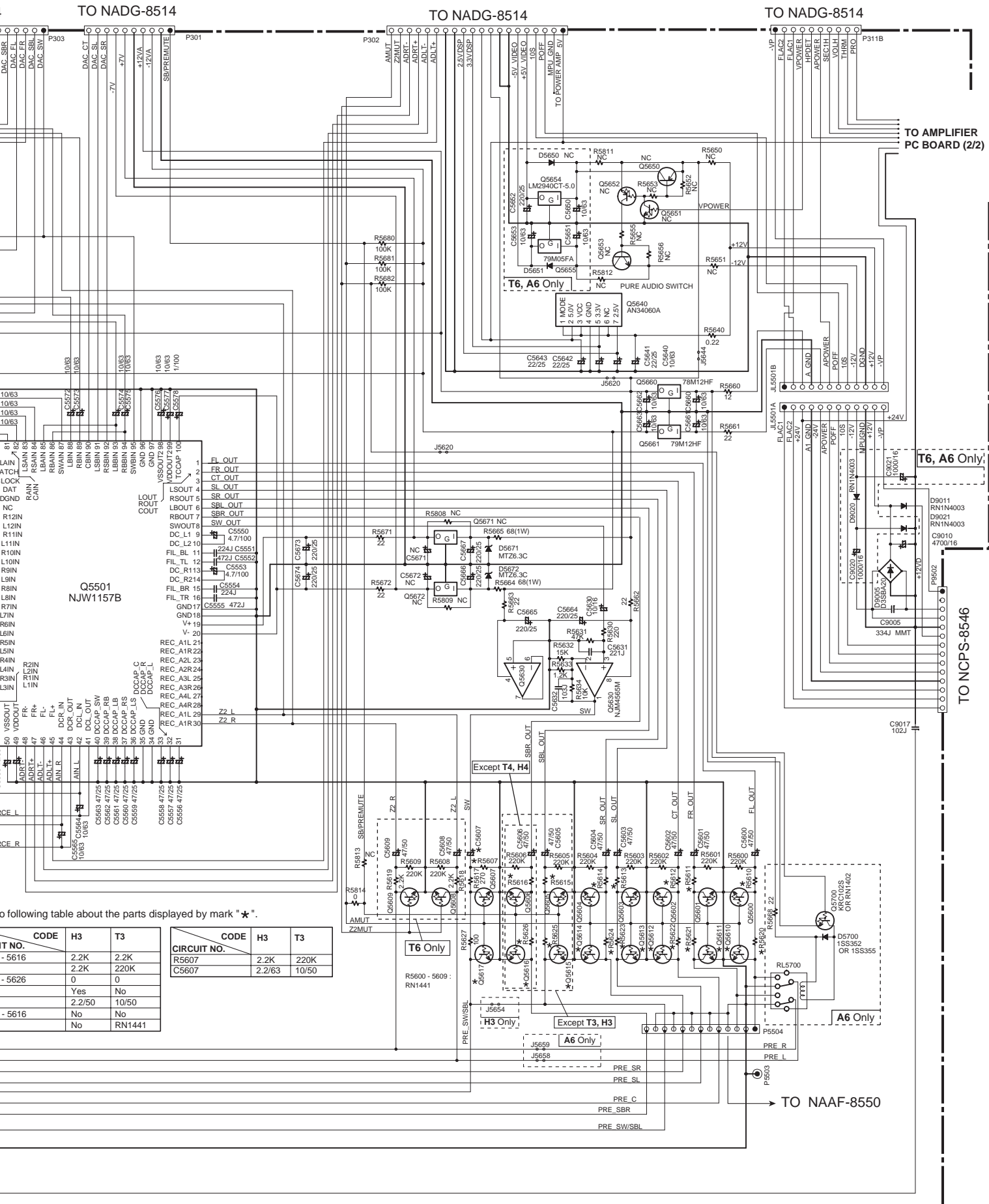
4

5



CIRCUIT NO

R5610 - 5611
R5607
R5620 - 5621
J5654
C5607
Q5610 - 5611
Q5617



The following table about the parts displayed by mark \*.

IT NO.	CODE	H3	T3
-5616	2.2K	2.2K	
	2.2K	220K	
-5626	0	0	
	Yes	No	
	2.2/50	10/50	
-5616	No	No	
	No	RN1441	

CIRCUIT NO.	CODE	H3	T3
	R5607	2.2K	220K
	C5607	2.2/63	10/50

T6 Only

Except T4, H4

H3 Only

Except T3, H3

A6 Only

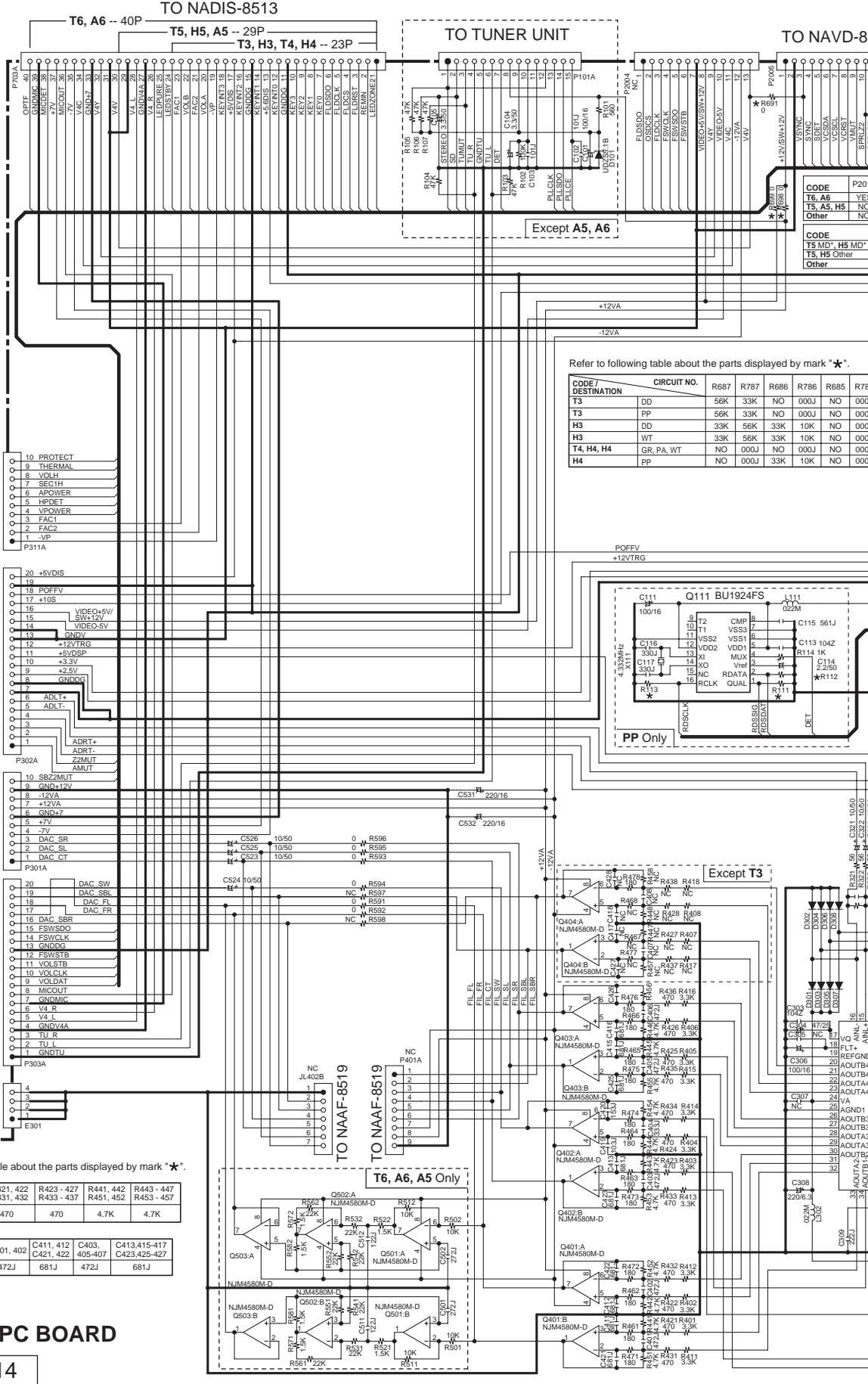
R5600 - 5609 : RN1441

TO NAAF-8550

A B C D  
**SCHEMATIC DIAGRAMS-2**  
**DSP SECTION**

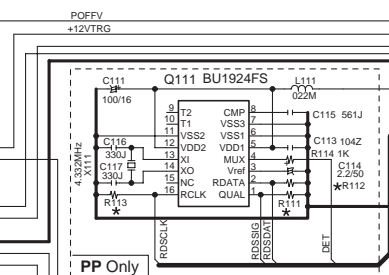
APPLY MODELS & CODE

CODE	MODEL
T3	TX-SR303
H3	HT-R330
T4	TX-SR403 / TX-SR8340
H4	HT-R430
T5	TX-SR503/503E / TX-SR8350
A5	TX-SA503
H5	HT-R530
T6	TX-SR603 / TX-SR8360
A6	TX-SA603



Refer to following table about the parts displayed by mark "★".

CODE/DESTINATION	CIRCUIT NO.	R687	R787	R686	R786	R685	R785
T3	DD	56K	33K	NO	000J	NO	000J
H3	PP	56K	33K	NO	000J	NO	000J
T4, H4, H4	DD	33K	56K	33K	10K	NO	000J
H4	WT	33K	56K	33K	10K	NO	000J
H4	GR, PA, WT	NO	000J	NO	000J	NO	000J
H4	PP	NO	000J	33K	10K	NO	000J



Refer to following table about the parts displayed by mark "★".

CIRCUIT NO.	R421, 422	R423 - 427	R441, 442	R443 - 447
DESCRIPTION	R431, 432	R433 - 437	R451, 452	R453 - 457
	470	470	4.7K	4.7K

CIRCUIT NO.	C401, 402	C411, 412	C403, 405-407	C413, 415-417
DESCRIPTION	472J	681J	472J	681J

**U02 DSP PC BOARD**  
 NADG-8514

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E

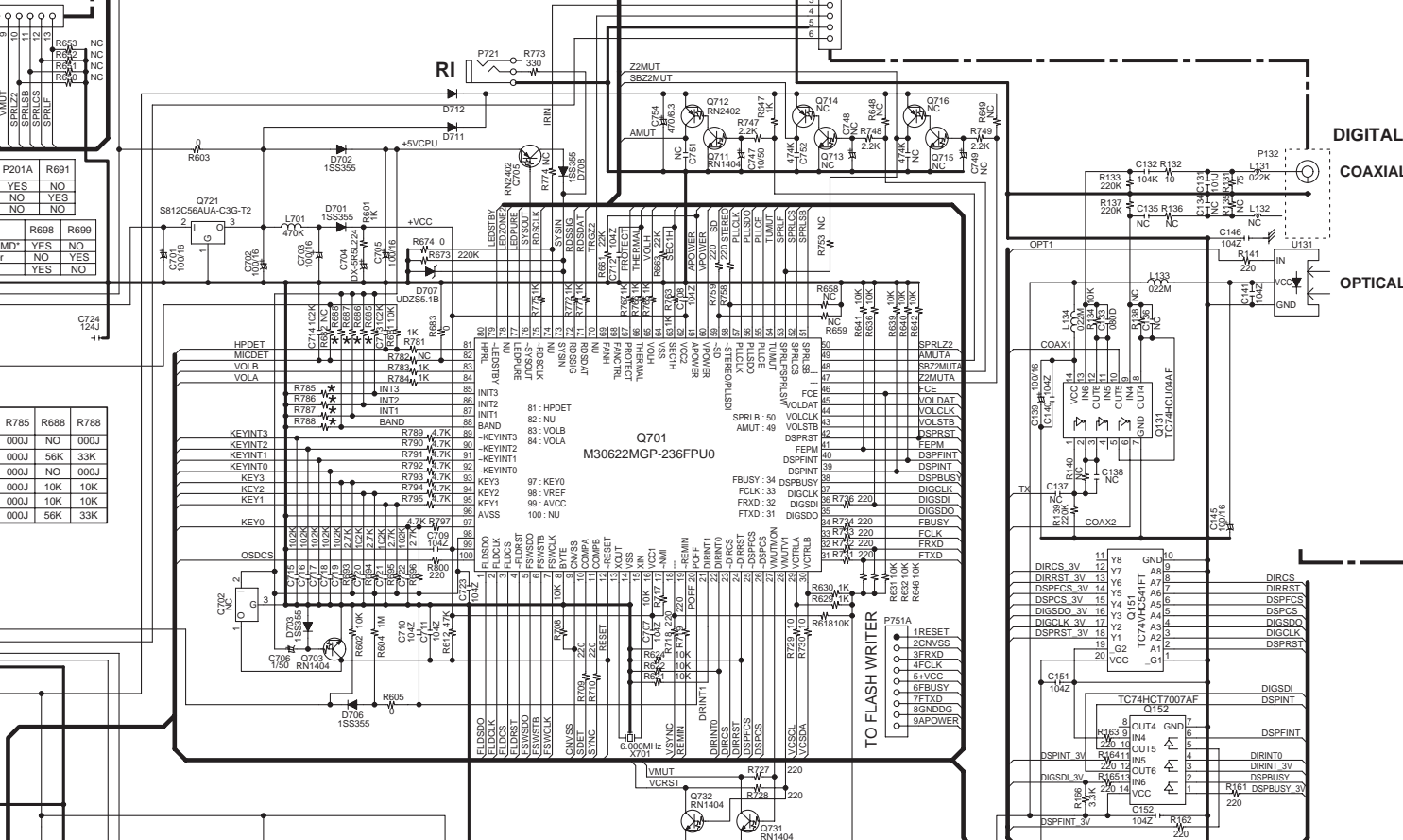
F

G

H

T6 Only

-8549



DIGITAL IN  
COAXIAL  
OPTICAL

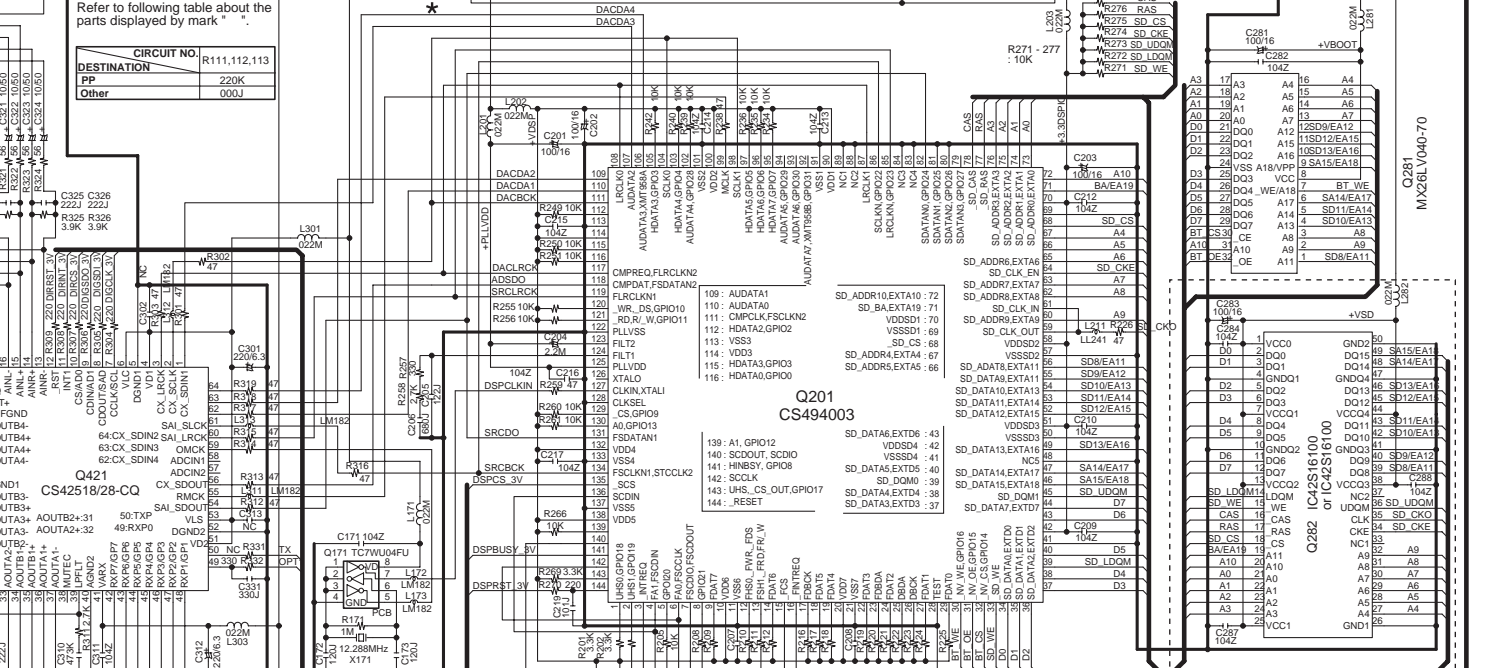
P201A	R691	YES	NO
NO	NO	NO	YES
NO	NO	NO	NO

R698	R699	YES	NO
NO	NO	NO	YES
NO	NO	NO	NO

R785	R688	R788
000J	NO	000J
000J	56K	33K
000J	NO	000J
000J	10K	10K
000J	10K	10K
000J	56K	33K

Refer to following table about the parts displayed by mark \*

CIRCUIT NO.		R111,112,113
DESTINATION	PP	220K
Other		000J



H5, T6, A6 Only

A

B

C

D

# SCHEMATIC DIAGRAMS-3

## POWER AMPLIFIER SECTION-1

1

**APPLY MODELS & CODE**

CODE	MODEL
T3	TX-SR303
H3	HT-R330
T4	TX-SR403 / TX-SR8340
H4	HT-R430
T5	TX-SR503/503E / TX-SR8350
A5	TX-SA503
H5	HT-R530
T6	TX-SR603 / TX-SR8360
A6	TX-SA603

[ ] Values are for H5

Refer to following table about the parts displayed by mark " \* ".

**Transistors**

CIRCUIT NO.	DESCRIPTION
Q5000 - 5002 Q5010 - 5012	2SC2240-BL
Q5003 - 5004 Q5013 - 5014	2SC2240-BL, KTC3200-BL
Q5030 - 5034	2SA949-Y
Q5040 - 5044	2SC2229-Y
Q5050 - 5054	2SC1815-GR, BL

**NOTE**

- THE COMPONENTS IDENTIFIED BY MARK  $\triangle$  ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER)  $\leftarrow$  IS DC VOLTAGE (NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  $\text{---} \text{---} \text{---}$  ) ARE IN  $\mu\text{F/WV}$ .
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.  
EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033 $\mu\text{F}$
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.  
EX)  $\text{---} \text{---} \text{---}$  PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

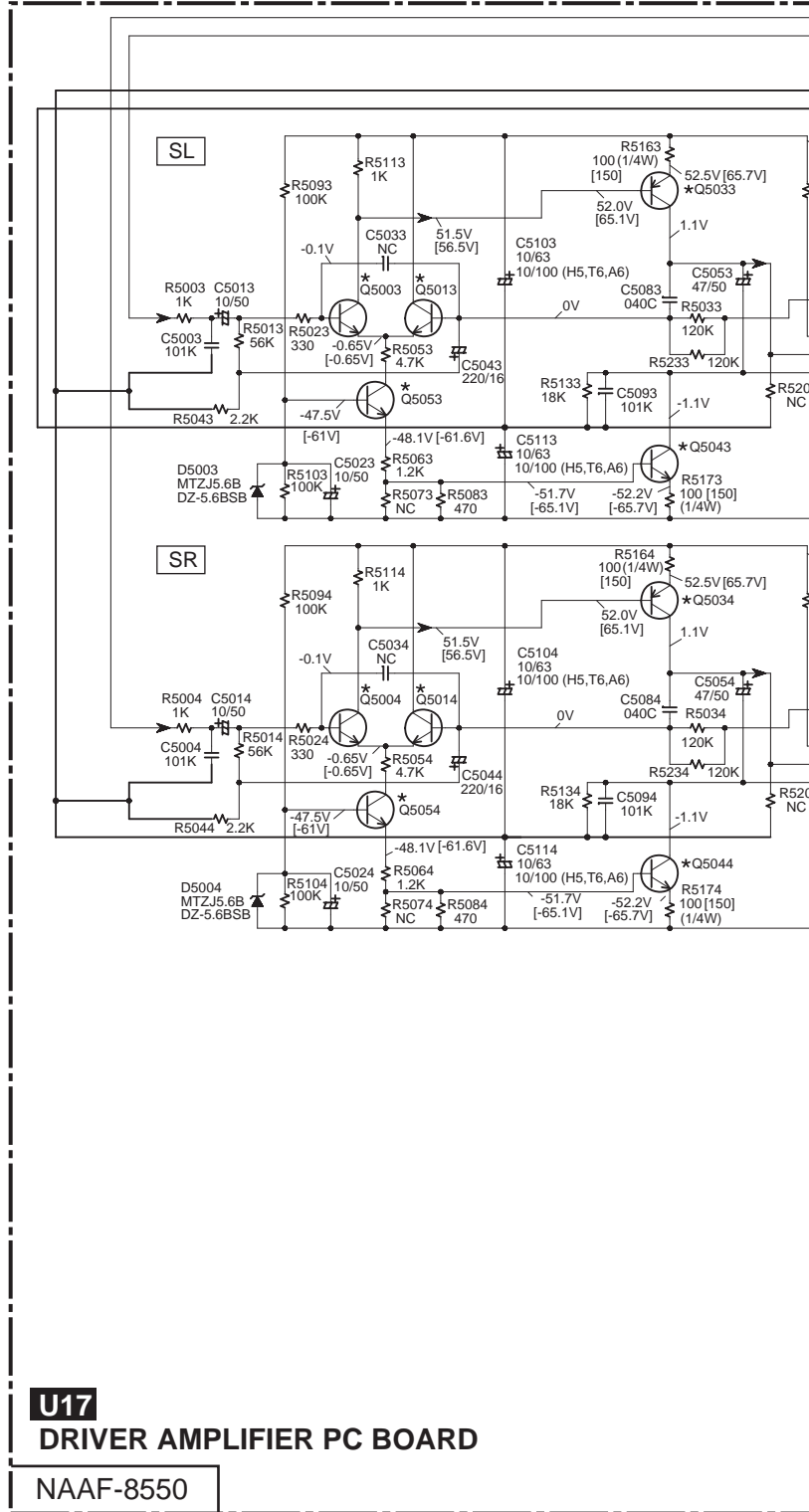
NC=No mount of parts.

2

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4

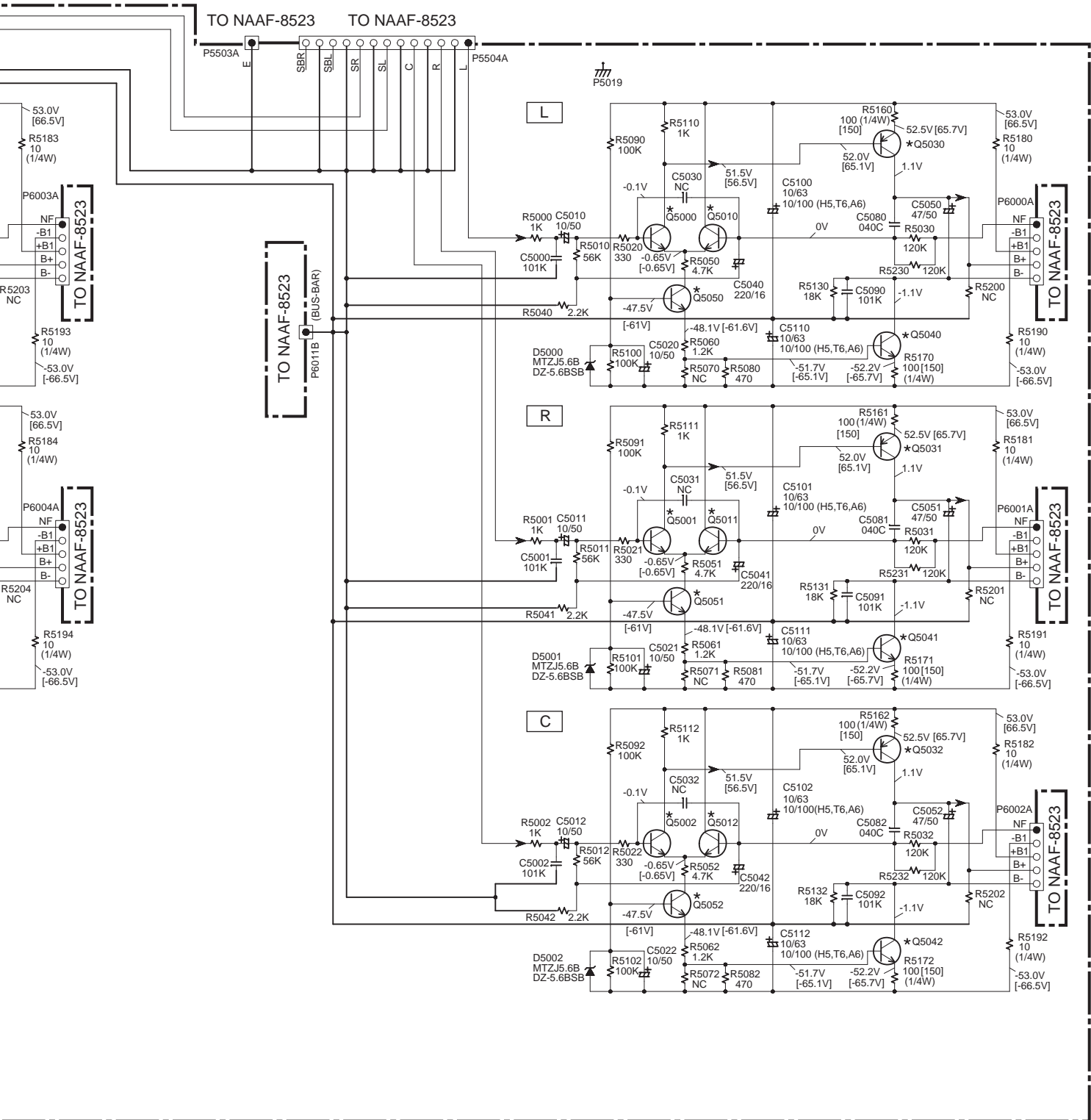
5



**U17**

**DRIVER AMPLIFIER PC BOARD**

**NAAF-8550**



A

B

C

D

# SCHEMATIC DIAGRAMS-4

## POWER AMPLIFIER SECTION-2

APPLY MODELS & CODE

CODE	MODEL
T3	TX-SR303
H3	HT-R330
T4	TX-SR403 / TX-SR8340
H4	HT-R430
T5	TX-SR503/503E / TX-SR8350
A5	TX-SA503
H5	HT-R530
T6	TX-SR603 / TX-SR8360
A6	TX-SA603

[ ] Values are for H5

Refer to following table about the parts displayed by mark "★".

Transistors

CIRCUIT NO.	DESCRIPTION
Q6010 - 6014	2SC1740S-S
Q6020 - 6024	2SC1740S-S
Q6030 - 6032	2SC5171, 2SC5993-Q, P
Q6033 - 6034	2SC5171, 2SC5551-E
Q6040 - 6042	2SA1930, 2SA2005-Q, P
Q6043 - 6044	2SA1930, 2SA
Q6070 - 6074	2SC2240-GR, BL
Q6701, 6702	2SC2240-GR, BL, KTC3200-GR, BL
Q6703	KTA1268-BL, GR, 2SA992-E, F 2SA1123-R
Q6901	KTC3199-GR, 2SC2458-GR, 2SC1740S-R, S
Q6060 - 6062	2SA1941-O, R, MP130S-Y, P, O
Q6063 - 6064	KTA1962A-O, R, MP130S-Y, P, O

NOTE

- THE COMPONENTS IDENTIFIED BY MARK  $\Delta$  ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER)  $\square$  IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  $\square$  ) ARE IN  $\mu$ F/WV.
- ALL CAPACITORS ARE IN pF/50VWV UNLESS OTHERWISE NOTED.  
EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033 $\mu$ F
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.  
EX)  $\square$  PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

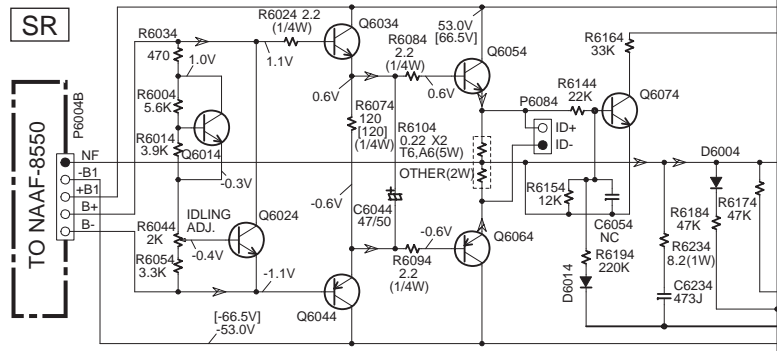
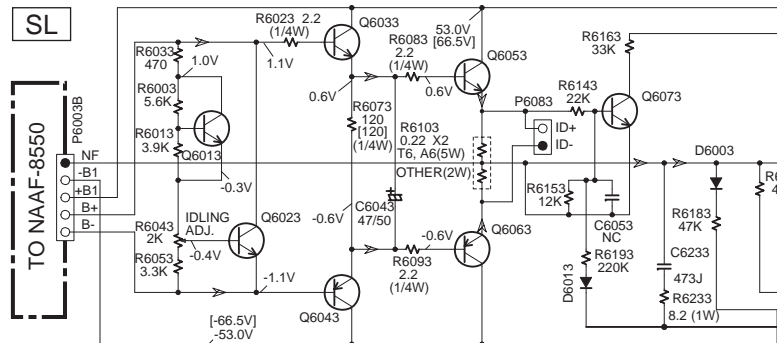
NC=No mount of parts.

Refer to following table about the parts displayed by mark "★".

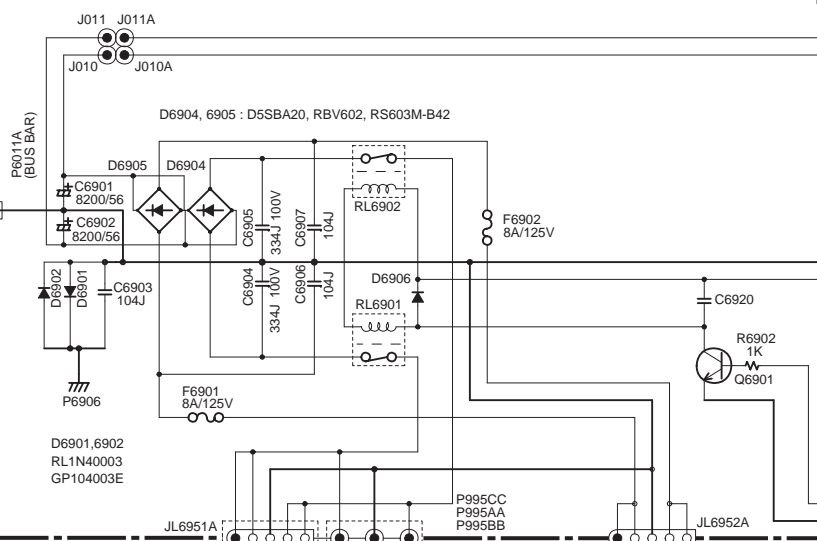
NAAF-8523

U05

AMPLIFIER PC BOARD (2/2)



TO NAAF-8550



TO NAPS-8524 T3, H3, T4, H4 Only  
TO NAPS-8524 T5, A5, H5, T6, A6 Only  
TO NAPS-8524

1

2

3

4

5

E

F

G

H

L

R

C

U08

TO NAAF-8550

TO NAAF-8550

TO NAAF-8550

Except T3, H3

NAETC-8526  
THERMAL SENSOR  
PC BOARD

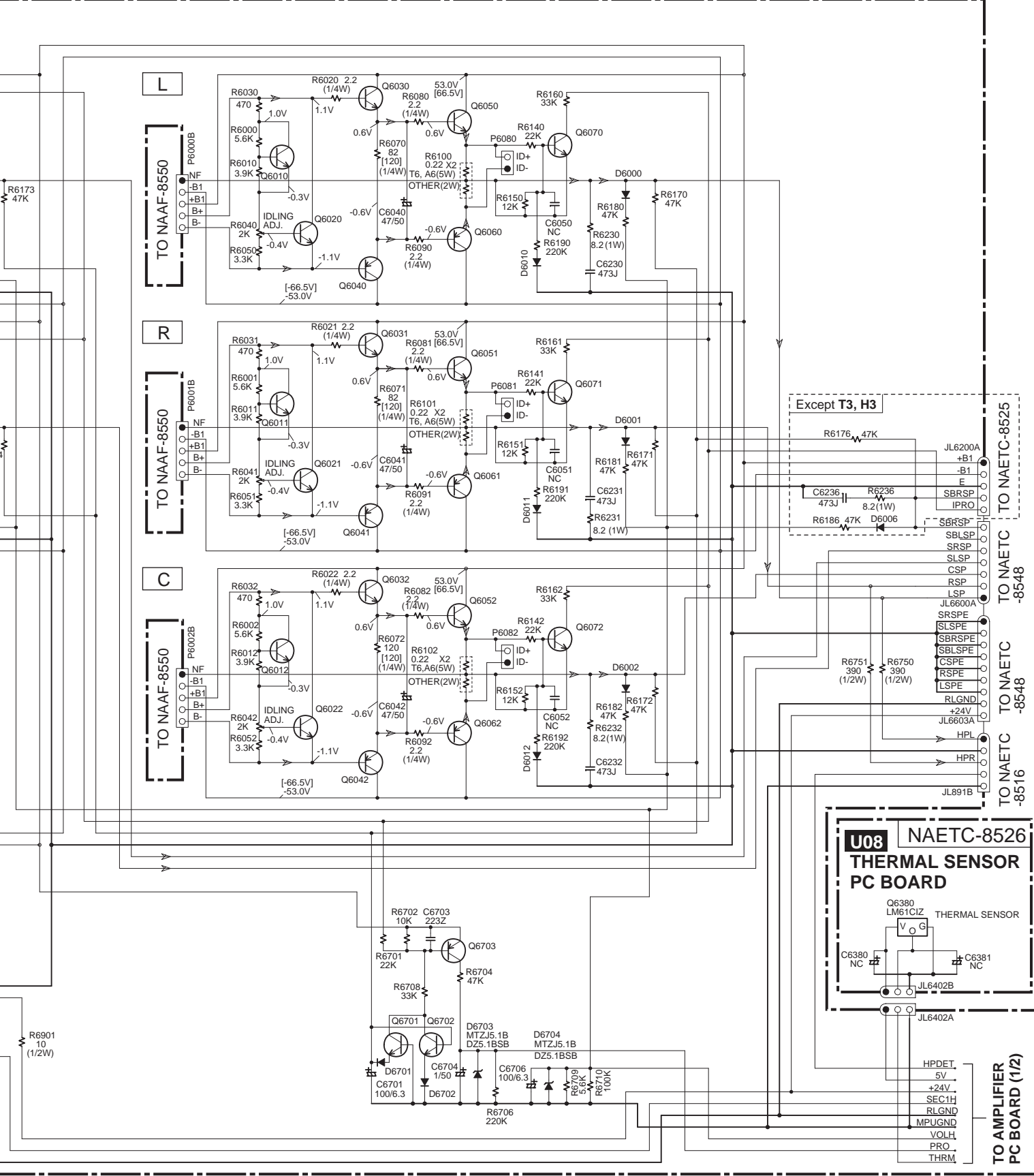
TO AMPLIFIER  
PC BOARD (1/2)

TO NAETC -8548

TO NAETC -8548

TO NAETC -8516

TO NAETC -8525



# SCHEMATIC DIAGRAMS-5 SPEAKER TERMINAL SECTION

**APPLY MODELS & CODE**

CODE	MODEL
T3	TX-SR303
H3	HT-R330
T4	TX-SR403 / TX-SR8340
H4	HT-R430
T5	TX-SR503/503E / TX-SR8350
A5	TX-SA503
H5	HT-R530
T6	TX-SR603 / TX-SR8360
A6	TX-SA603

**NOTE**

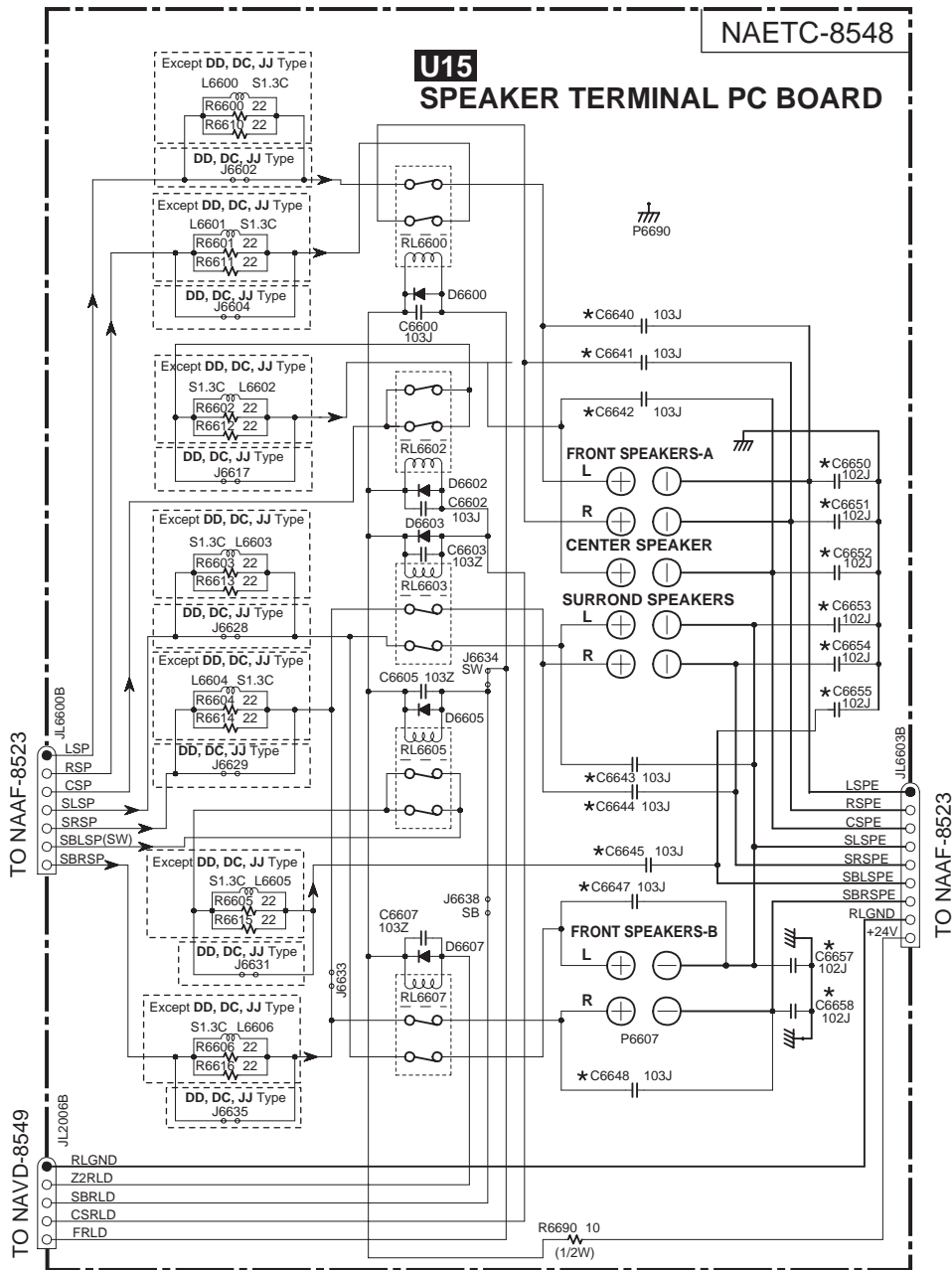
- THE COMPONENTS IDENTIFIED BY MARK  $\Delta$  ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER)  $\leftarrow$  IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  $\text{---}$  ) ARE IN  $\mu\text{F/WV}$ .
- ALL CAPACITORS ARE IN pF/50V UNLESS OTHERWISE NOTED.  
EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033 $\mu\text{F}$
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.  
EX)  $\square$  PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

NC=No mount of parts.

Refer to following table about the parts displayed by mark "\*".

CIRCUIT NO.	C6640 - 6648	C6650 - 6658
DESTINATION	NO	NO
DD, DC	NO	NO
OTHERS	YES	YES



1

2

3

4

5

A

B

C

D

# SCHEMATIC DIAGRAMS-6

## POWER SUPPLY SECTION

1

**APPLY MODELS & CODE**

CODE	MODEL
T3	TX-SR303
H3	HT-R330
T4	TX-SR403 / TX-SR8340
H4	HT-R430
T5	TX-SR503/503E / TX-SR8350
A5	TX-SA503
H5	HT-R530
T6	TX-SR603 / TX-SR8360
A6	TX-SA603

**NOTE**

- THE COMPONENTS IDENTIFIED BY MARK  $\Delta$  ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER)  $\langle \square \rangle$  IS DC VOLTAGE (NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  $\text{---} \frac{\mu}{\text{---}}$  ) ARE IN  $\mu\text{F/WV}$ .
- ALL CAPACITORS ARE IN  $\text{pF}/50\text{V}$  UNLESS OTHERWISE NOTED.  
EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033 $\mu\text{F}$
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.  
EX)  $\square \square \square$  PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

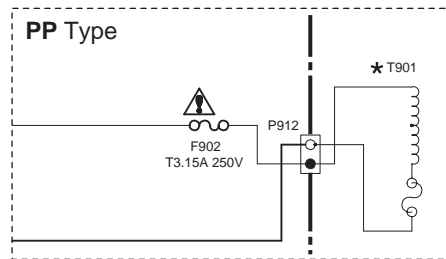
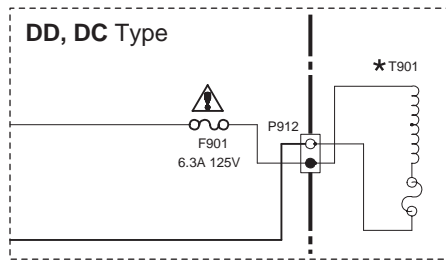
NC=No mount of parts.

2

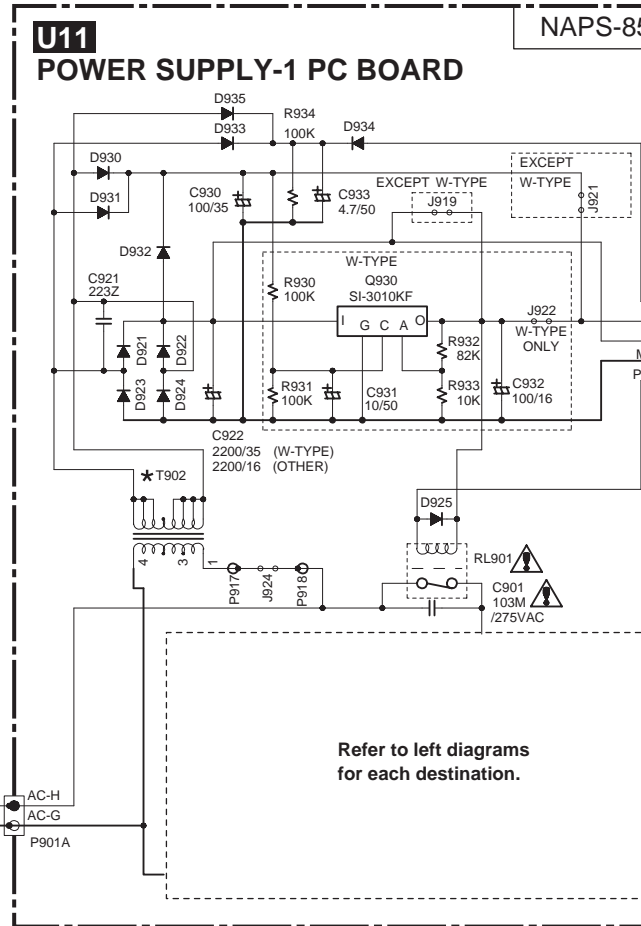
Refer to following table about the parts displayed by mark "★".

CIRCUIT NO.	T901	T902
DESTINATION		
DD	NPT-1514D	NPT-1520JQ
PP	NPT-1514P	NPT-1519GQ

3



4

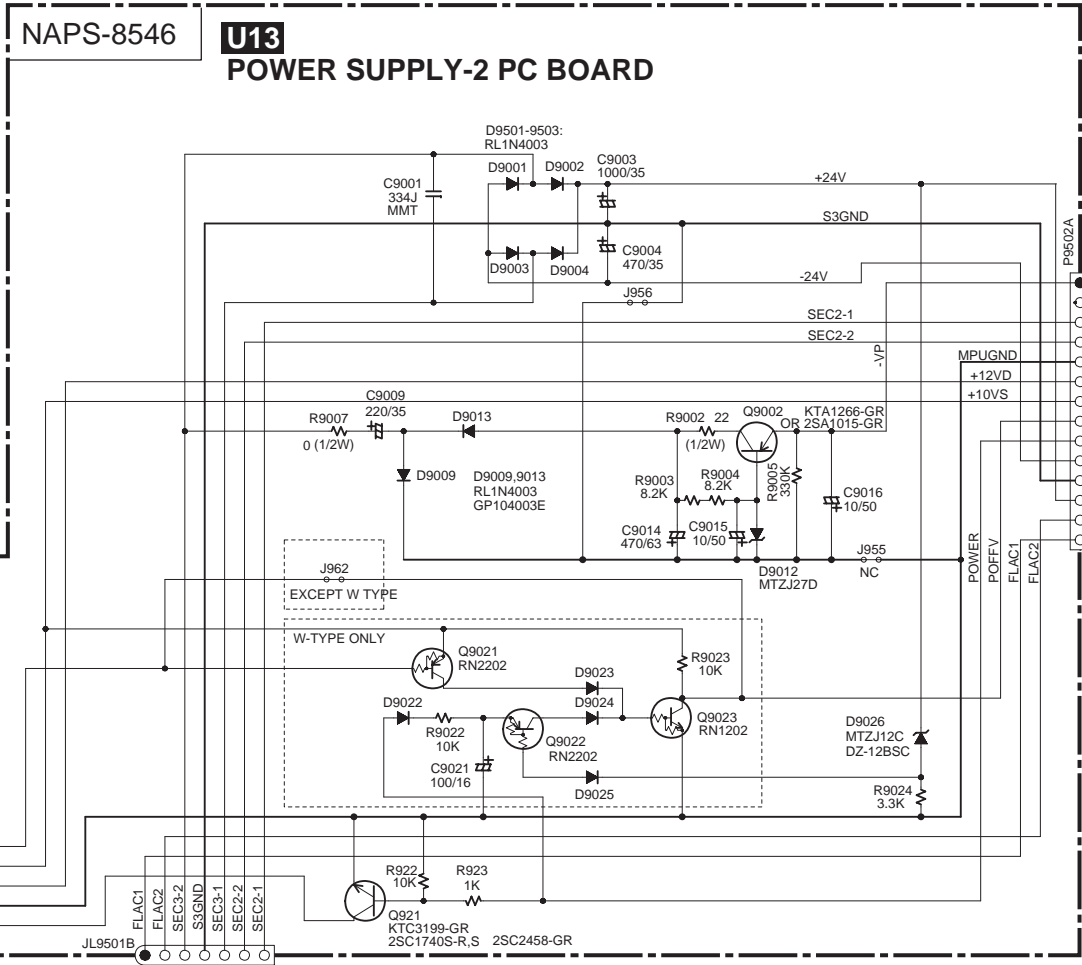


Refer to left diagrams for each destination.

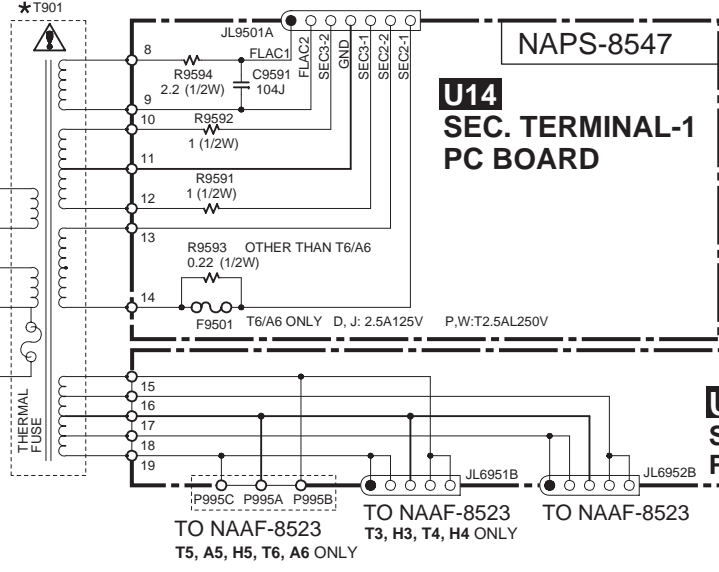
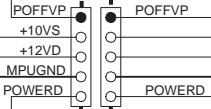
DESTINATION	AC IN
DD	120V /60Hz
PP	230-240V / 50Hz

5

-8544



TO NAAF-8523



TO NAAF-8523  
T5, A5, H5, T6, A6 ONLY

TO NAAF-8523  
T3, H3, T4, H4 ONLY

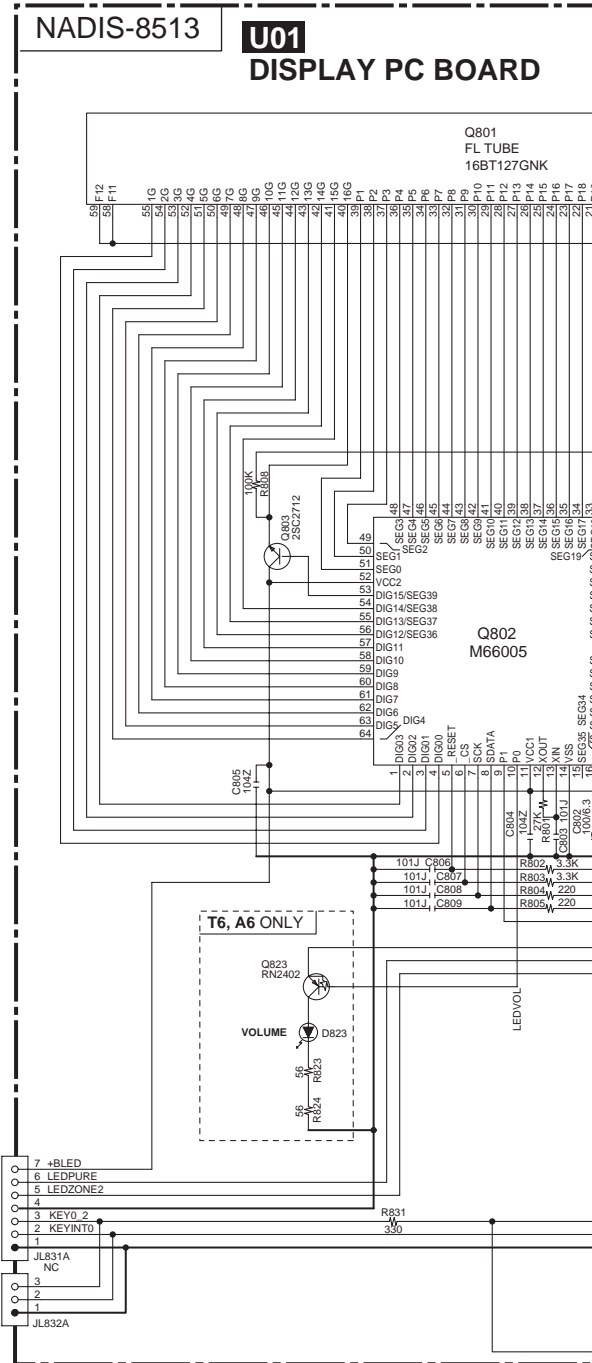
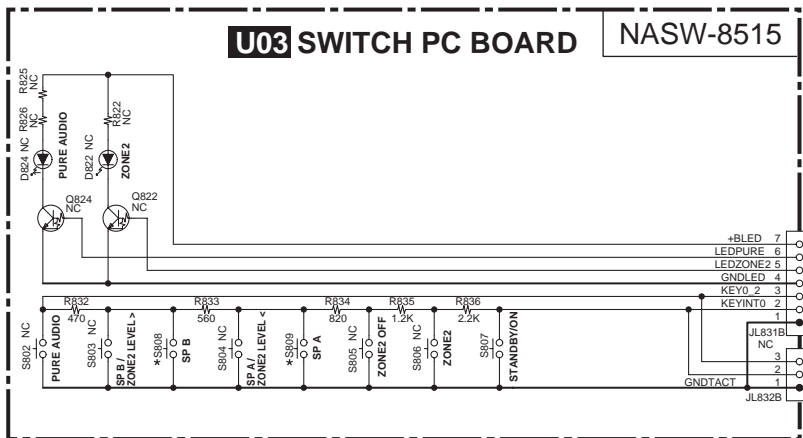
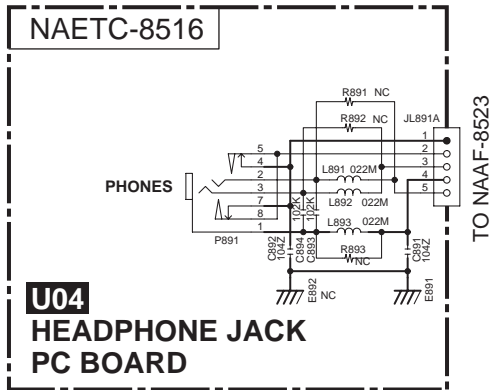


**A** **B** **C** **D**

**SCHEMATIC DIAGRAMS-7**  
**DISPLAY SECTION**

APPLY MODELS & CODE

CODE	MODEL
T3	TX-SR303
H3	HT-R330
T4	TX-SR403 / TX-SR8340
H4	HT-R430
T5	TX-SR503/503E / TX-SR8350
A5	TX-SA503
H5	HT-R530
T6	TX-SR603 / TX-SR8360
A6	TX-SA603



**NOTE**

- THE COMPONENTS IDENTIFIED BY MARK  $\triangle$  ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER)  $\triangle$  IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  $\text{---}$  ) ARE IN  $\mu\text{F}/\text{WV}$ .
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.  
EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033 $\mu\text{F}$
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EX)  $\square$   $\square$   $\square$  PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

NC=No mount of parts.

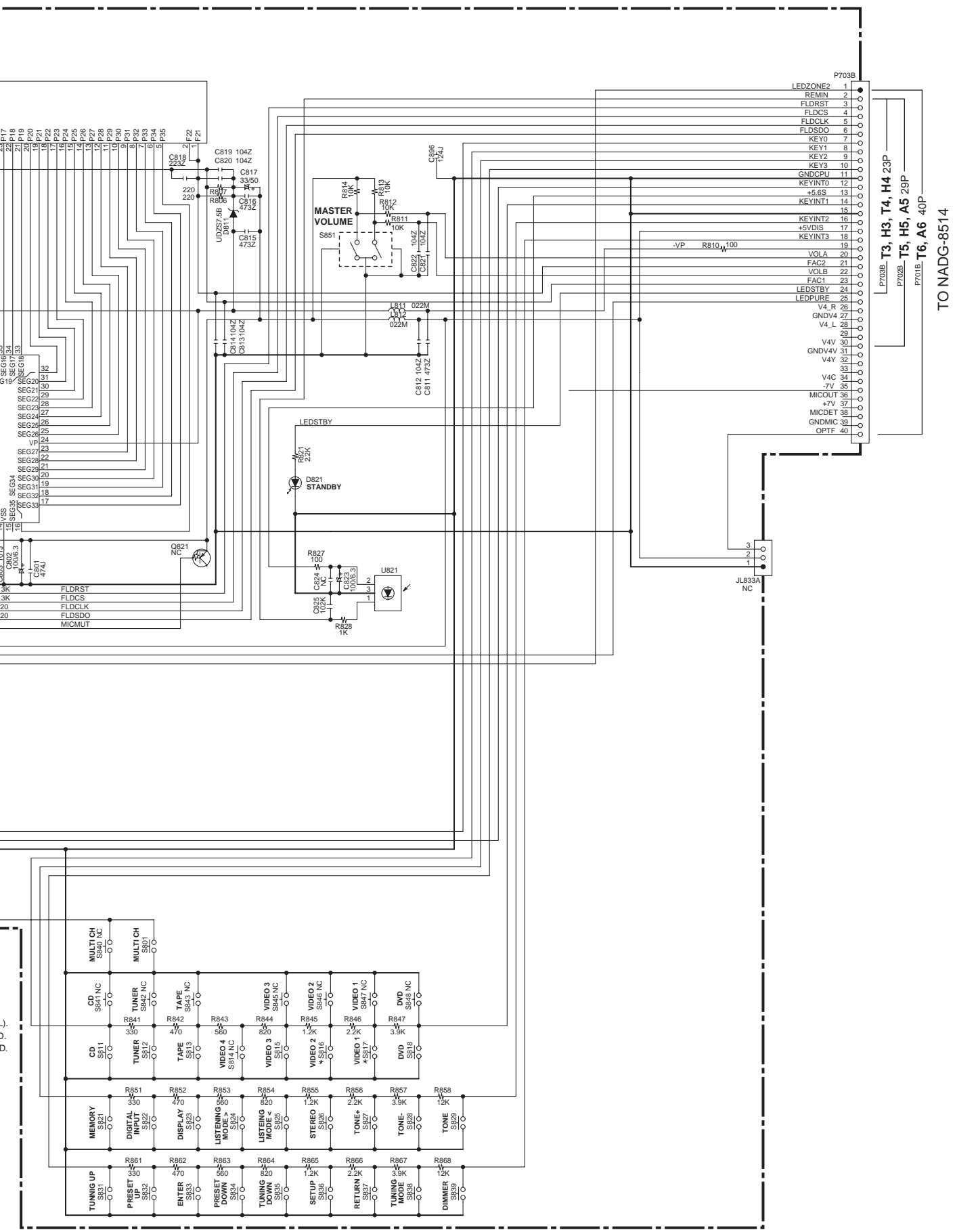
Refer to following table about the parts displayed by mark "\*".

E

F

G

H



P703B

LEDZONE2	1
REMIN	2
FLDRST	3
FLDCS	4
FLDCLK	5
FLDSDO	6
KEY0	7
KEY1	8
KEY2	9
KEY3	10
GNDCPU	11
KEYINT0	12
+5.6S	13
KEYINT1	14
KEYINT2	15
KEYINT3	16
+5VDIS	17
KEYINT3	18
VOLA	19
FAC2	20
VOLB	21
FAC1	22
LEDSTBY	23
LEDPURE	24
V4_R	25
GNDV4	26
V4_L	27
V4V	28
GNDV4V	29
V4Y	30
V4C	31
-7V	32
MICOUT	33
+7V	34
MICDET	35
GNDMIC	36
OPTF	37
	38
	39
	40

P703B T3, H3, T4, H4 23P  
 P702B T5, H5, A5 29P  
 P701B T6, A6 40P

TO NADG-8514



A B C D

# SCHEMATIC DIAGRAMS-8

## VIDEO SECTION (303 / 403)

APPLY MODELS & CODE

CODE	MODEL
T3	TX-SR303
H3	HT-R330
T4	TX-SR403 / TX-SR8340
H4	HT-R430

1

NAVD-8549

**U16** VIDEO PC BOARD

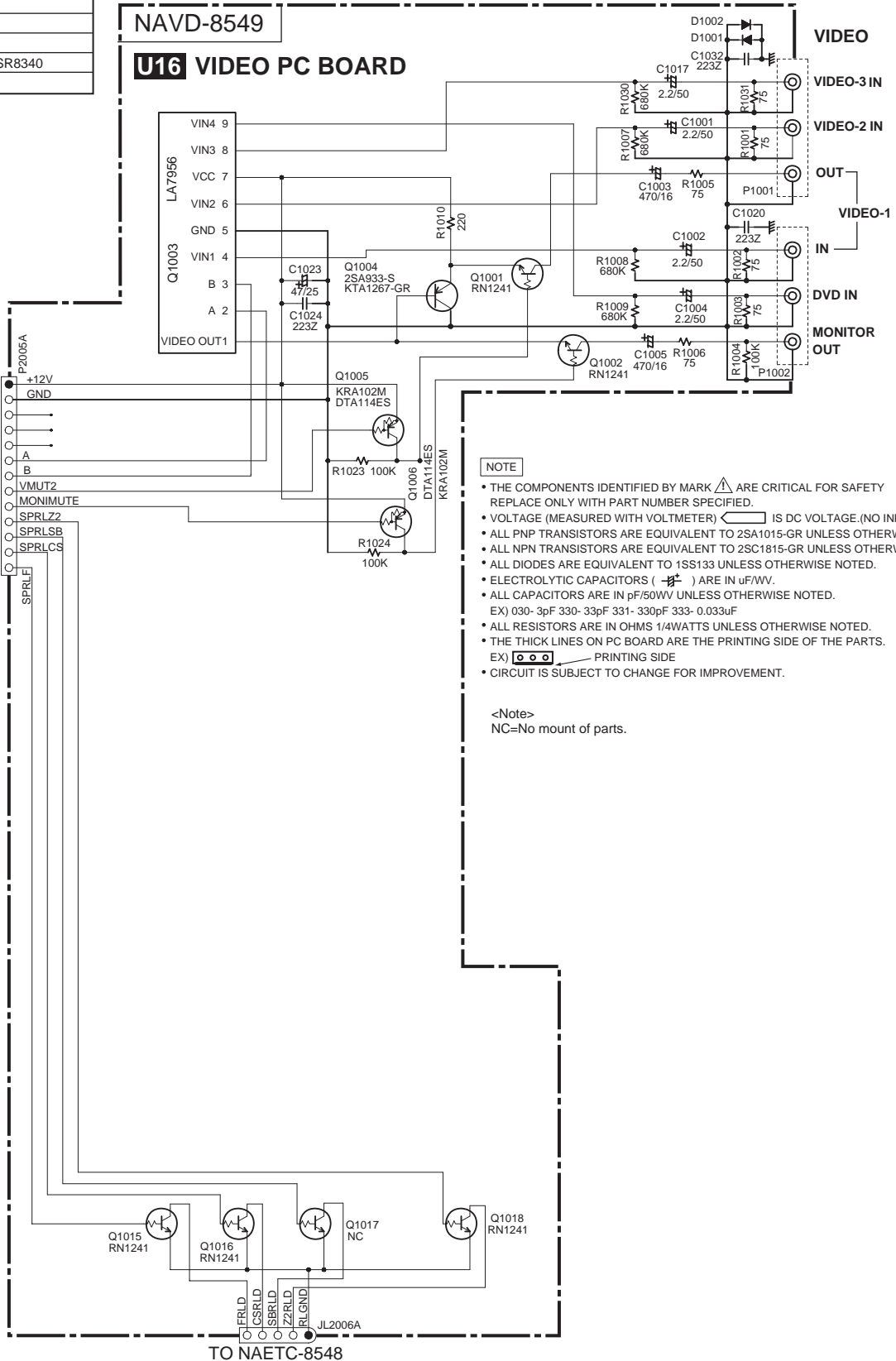
2

3

4

5

TO NADG-8514

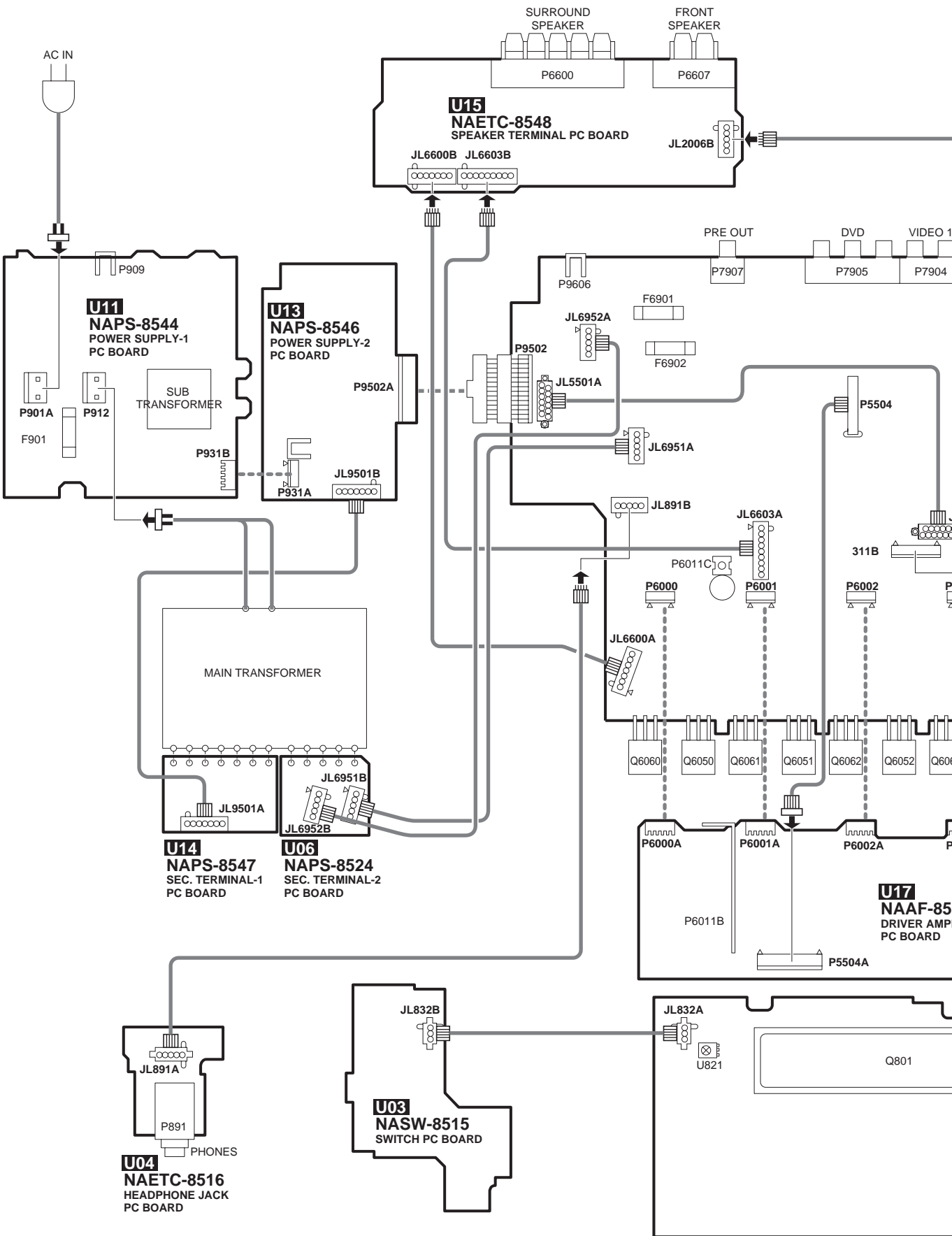


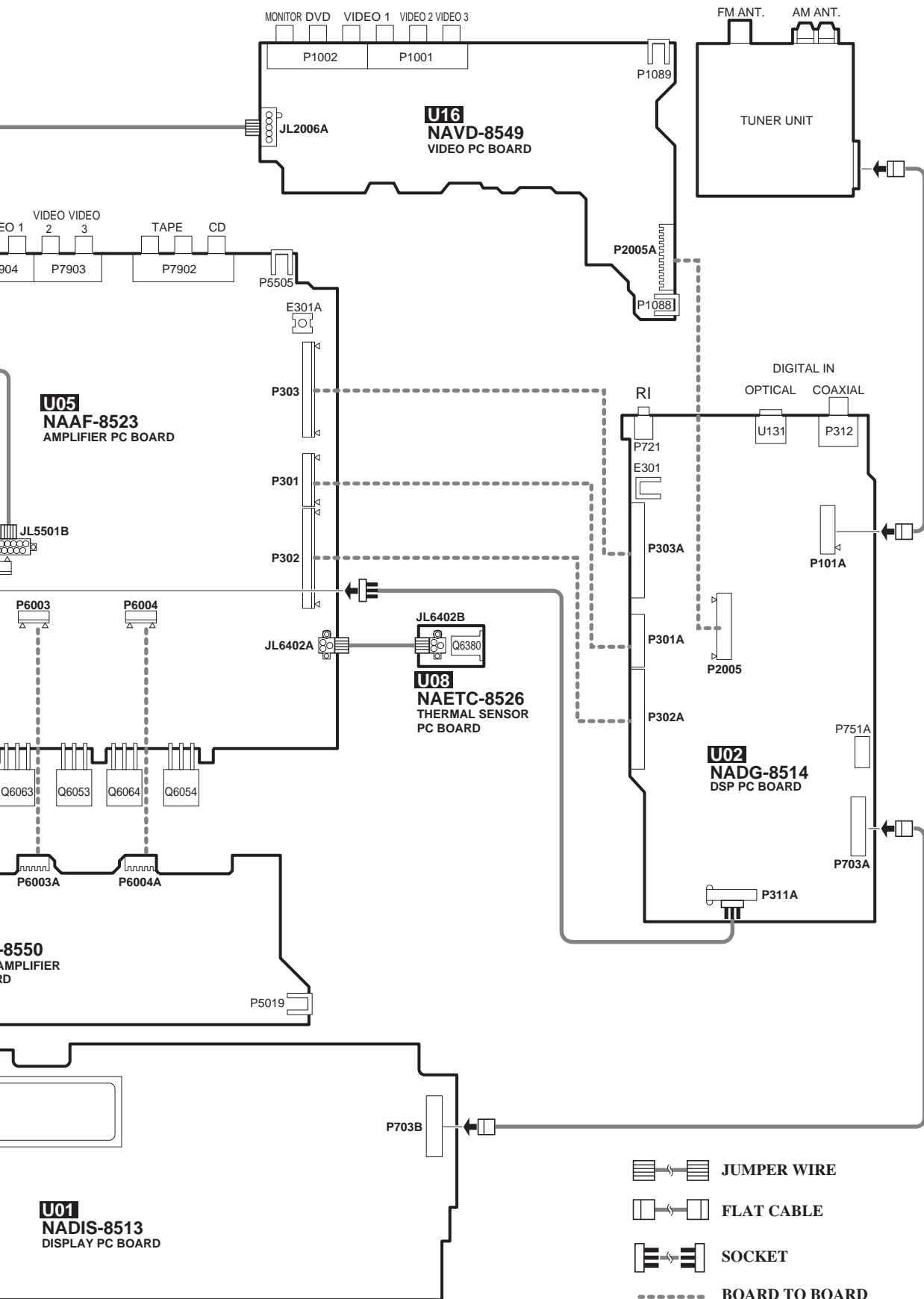
NOTE

- THE COMPONENTS IDENTIFIED BY MARK  $\Delta$  ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER)  $\leftarrow$  IS DC VOLTAGE. (NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (  $\text{---} \text{---} \text{---}$  ) ARE IN  $\mu\text{F/WV}$ .
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.  
EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033 $\mu\text{F}$
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.  
EX)  $\square \square \square$  PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>  
NC=No mount of parts.

# PC BOARD CONNECTION DIAGRAM





A

B

C

D

# PRINTED CIRCUIT BOARD VIEWS-1

1

## U01 DISPLAY PC BOARD (NADIS-8513)

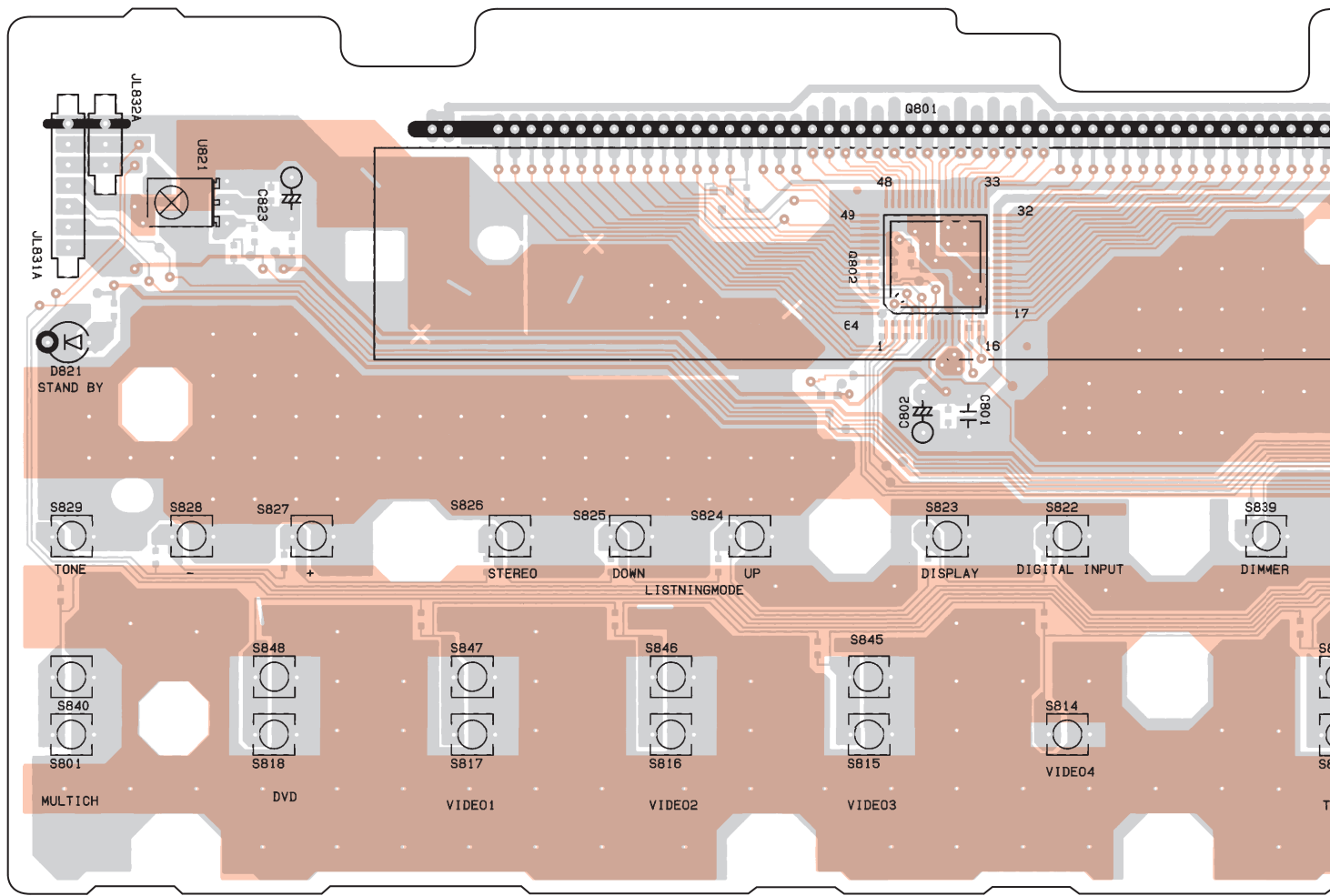
Side A

2

3

4

5

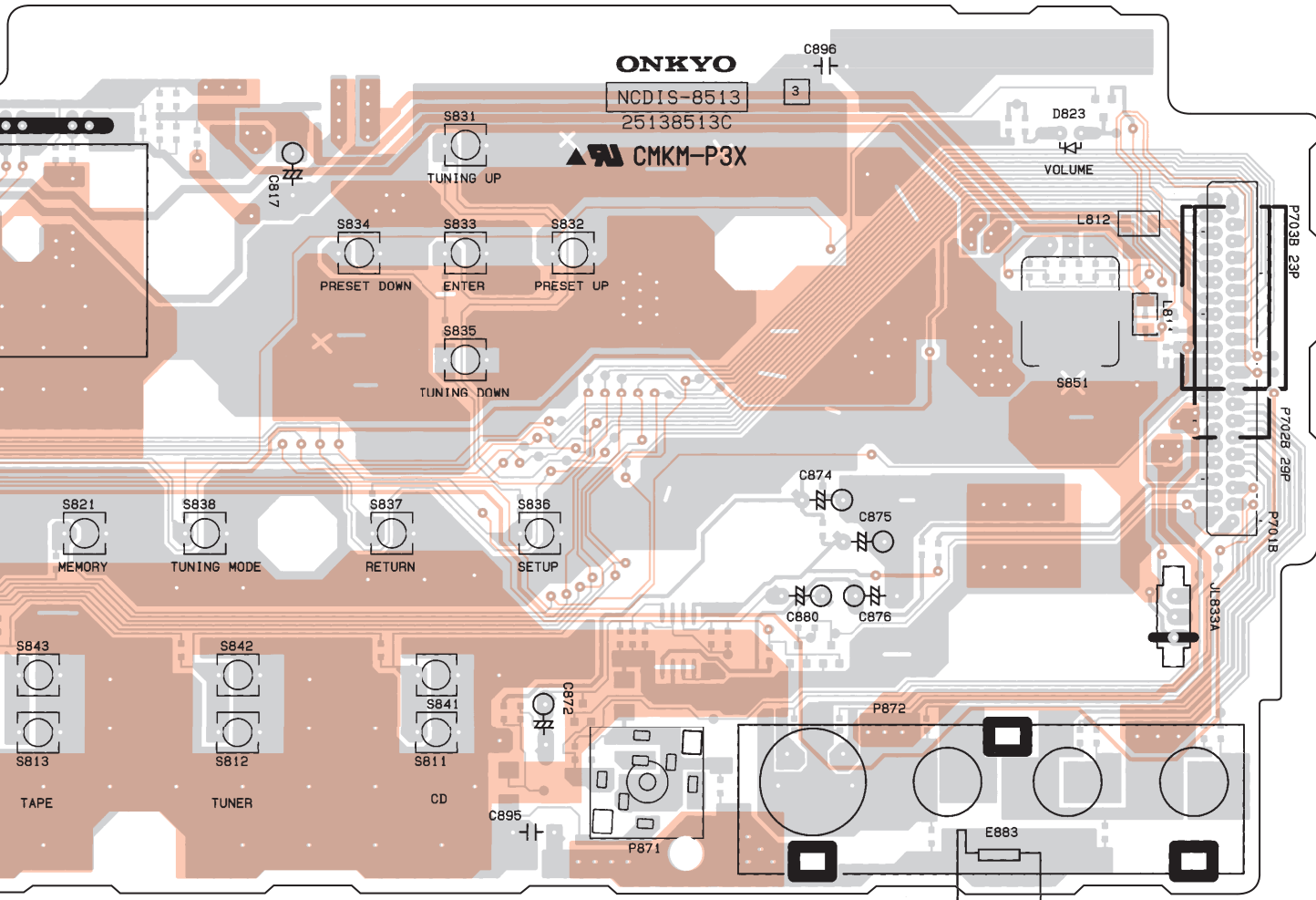


E

F

G

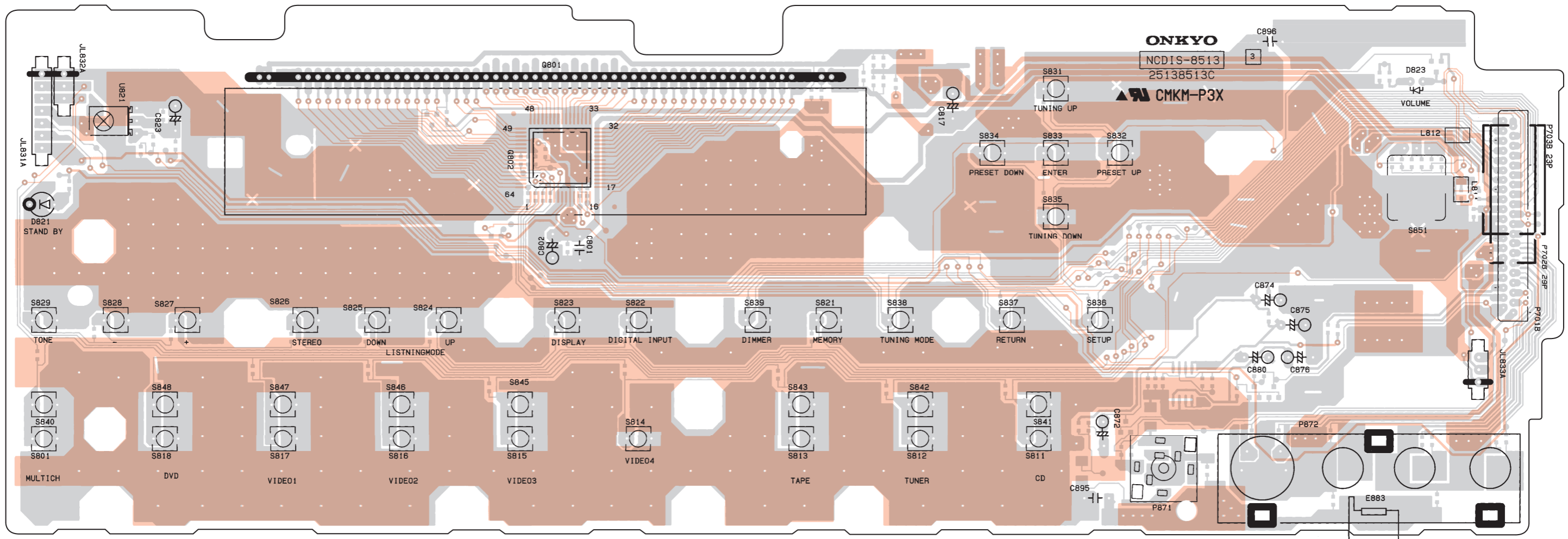
H



A B C D E F G H  
PRINTED CIRCUIT BOARD VIEWS-1

1  
**U01** DISPLAY PC BOARD  
(NADIS-8513)

Side A





A

B

C

D

# PRINTED CIRCUIT BOARD VIEWS-2

1

## U01 DISPLAY PC BOARD (NADIS-8513)

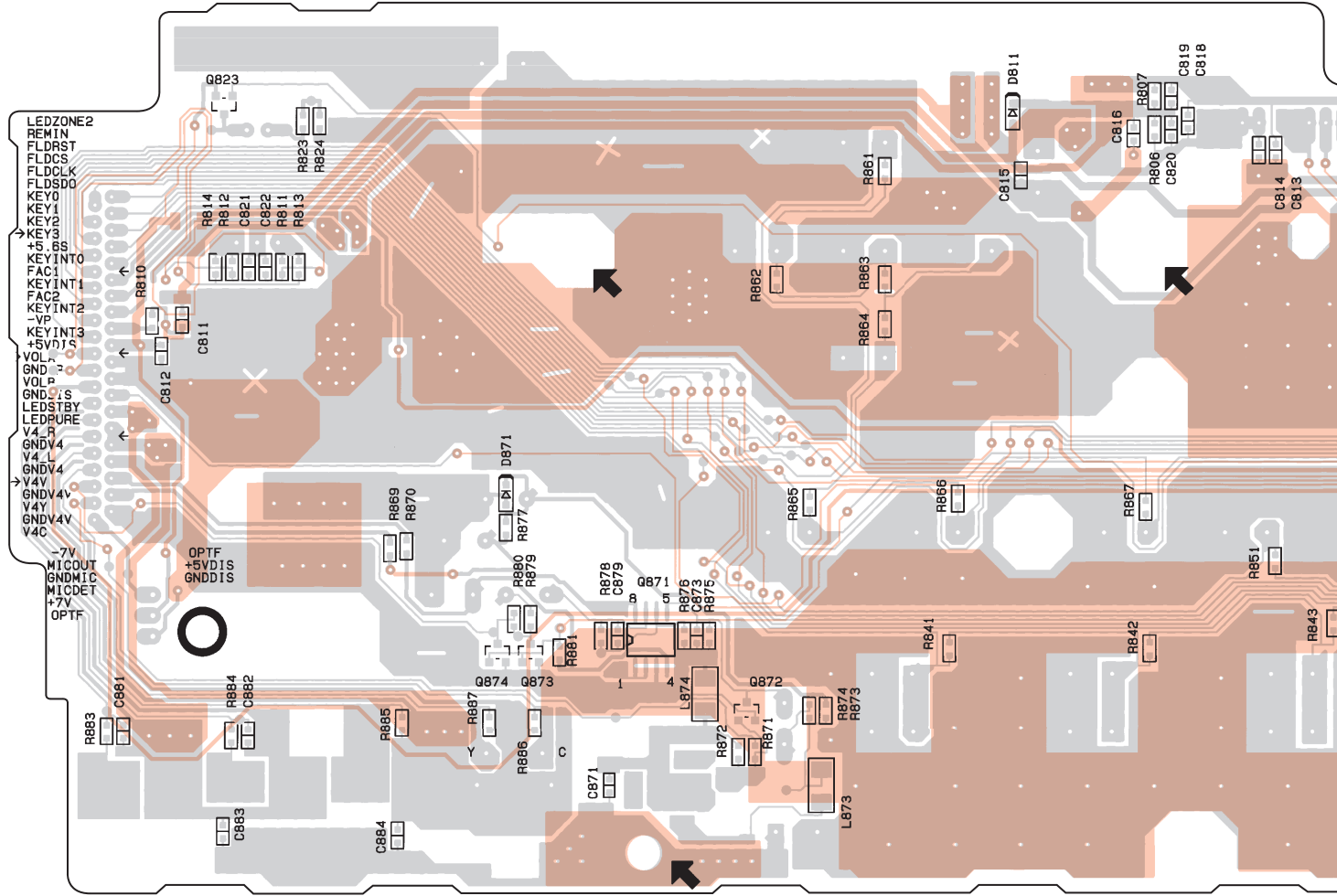
Side B

2

3

4

5

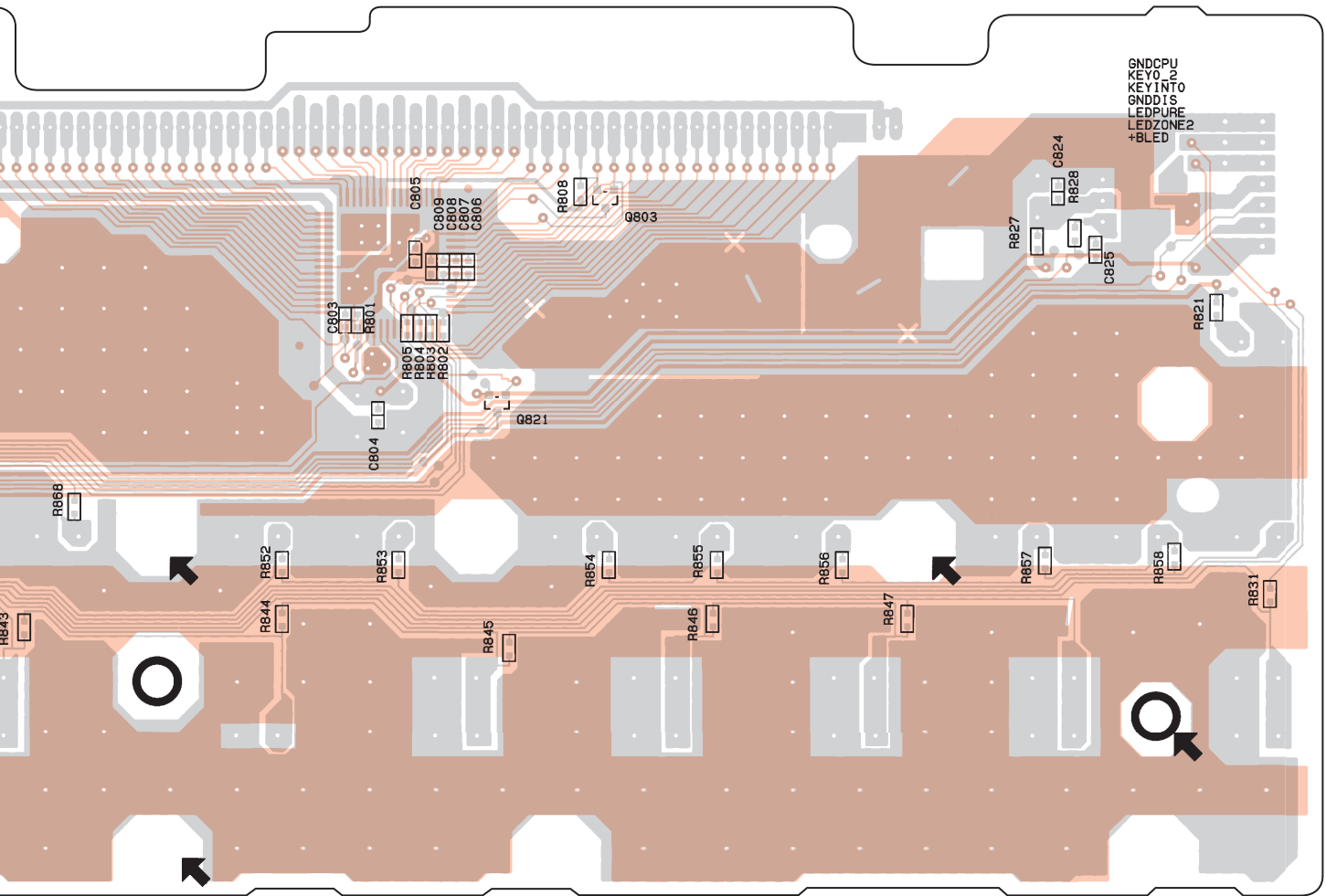


E

F

G

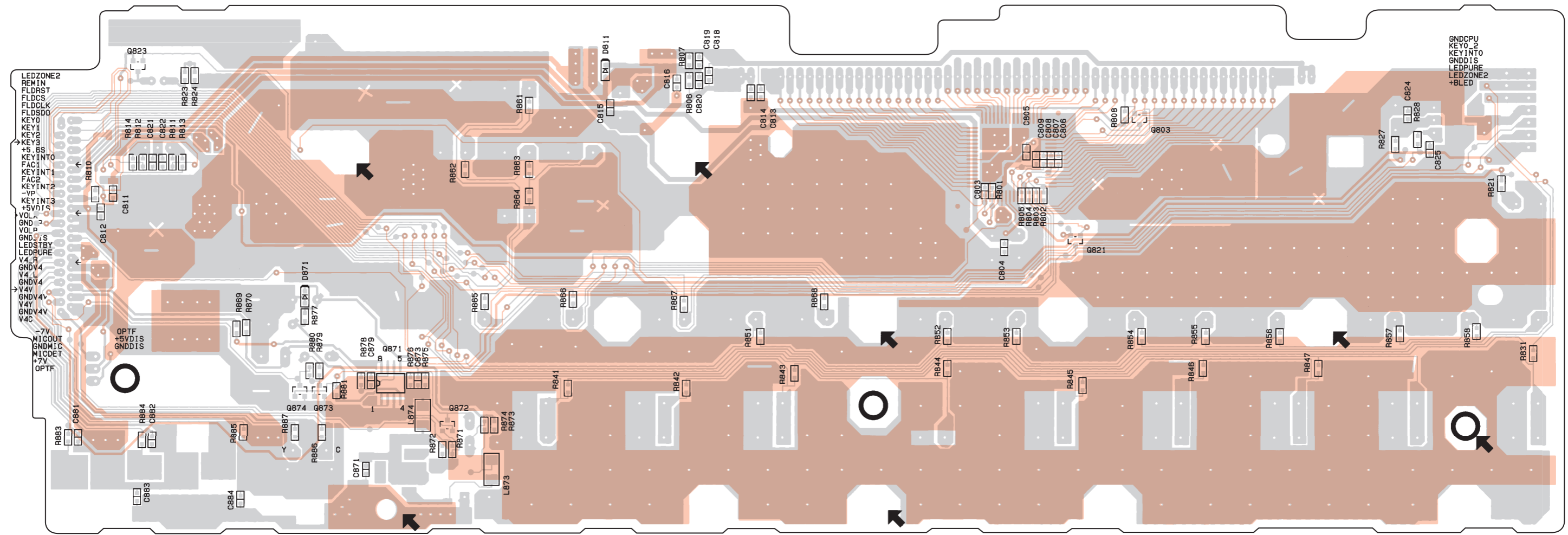
H



PRINTED CIRCUIT BOARD VIEWS-2

**U01** DISPLAY PC BOARD  
(NADIS-8513)

Side B



1

2

3

4

5

A

B

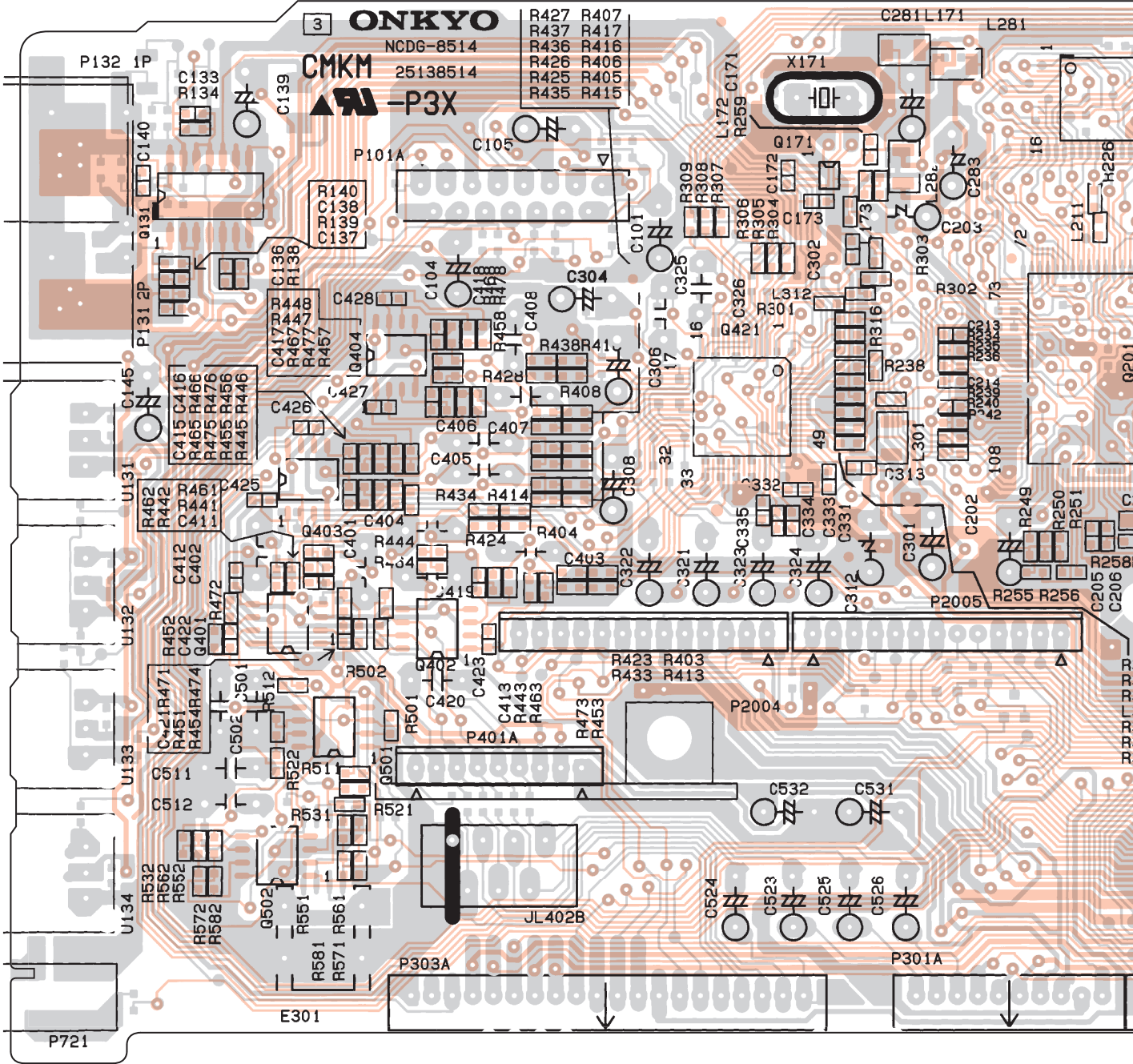
C

D

# PRINTED CIRCUIT BOARD VIEWS-3

## U02 DSP PC BOARD (NADG-8514)

Side A

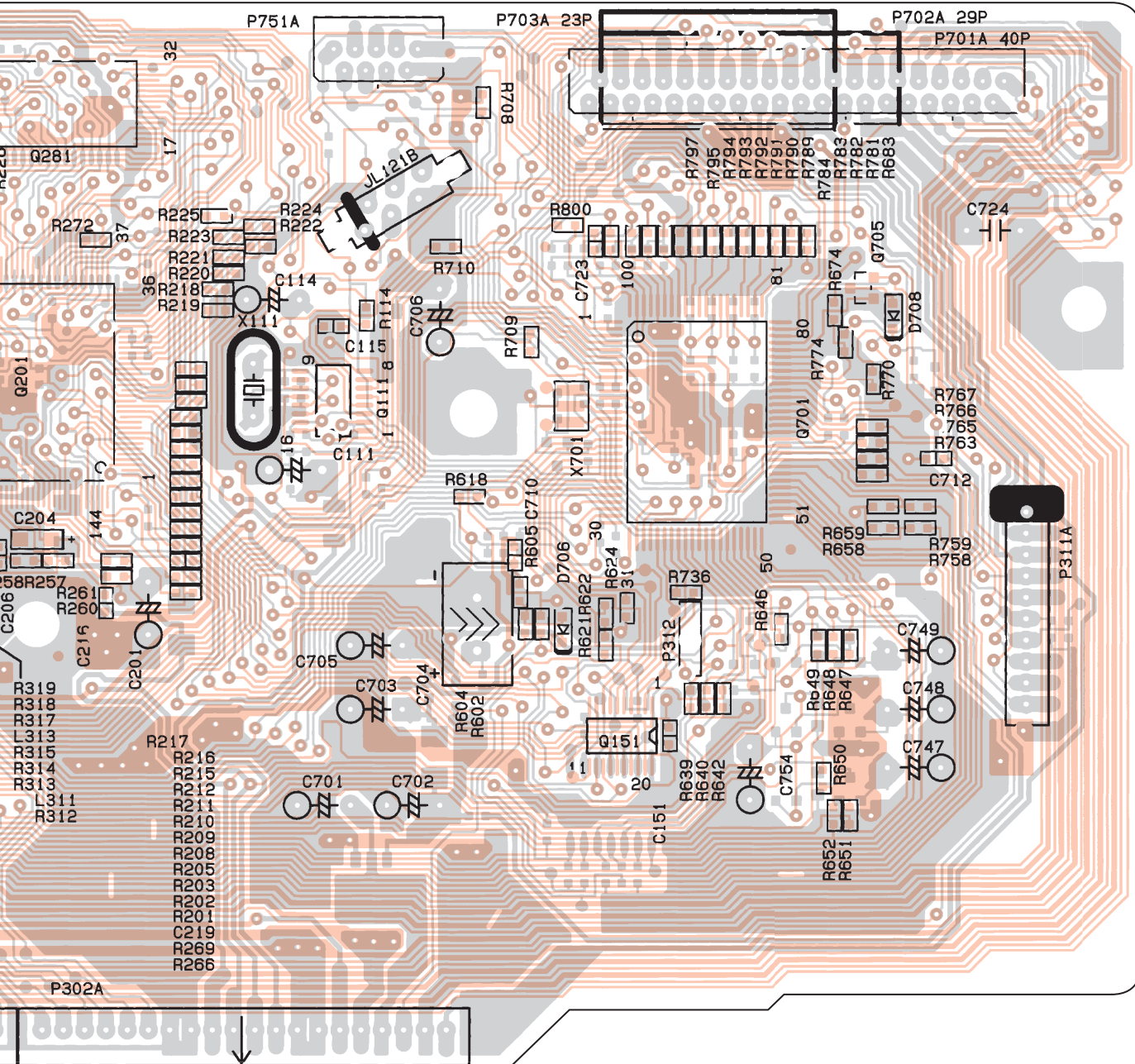


E

F

G

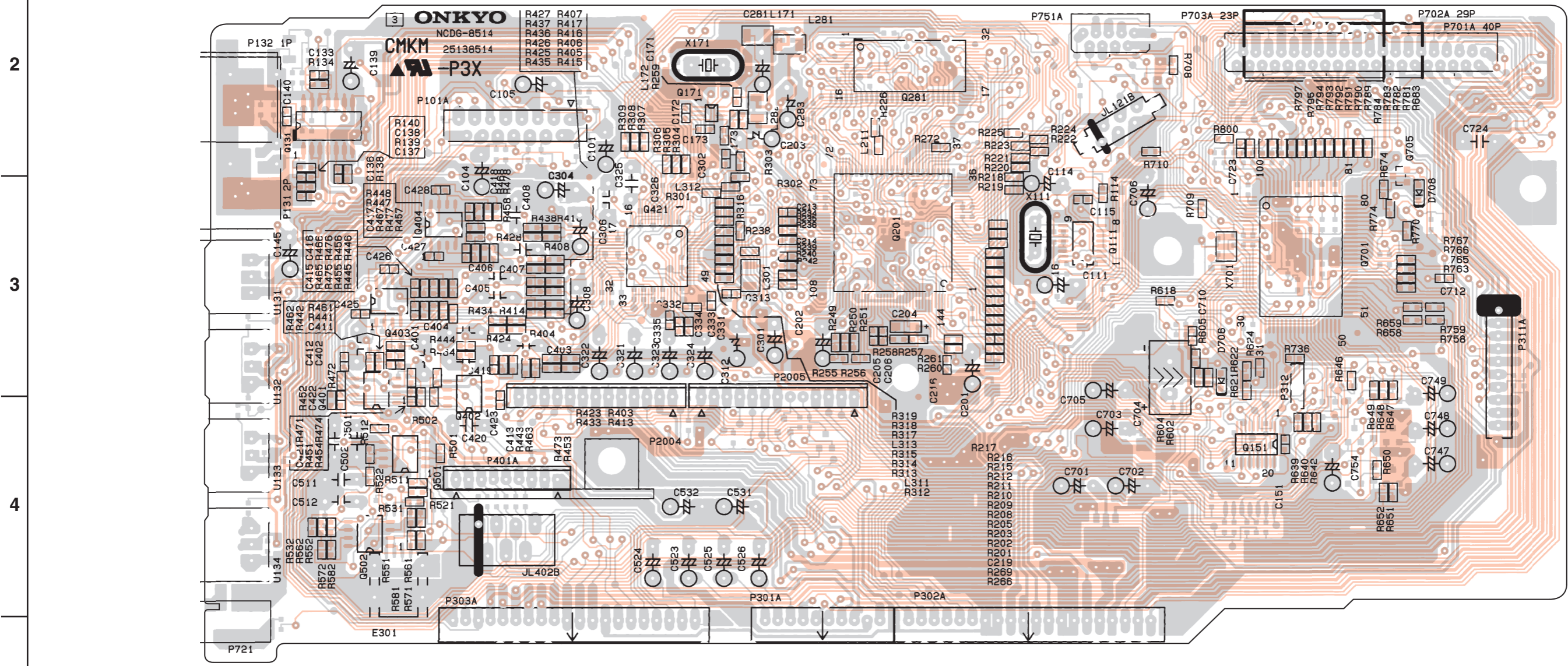
H



A B C D E F G H  
PRINTED CIRCUIT BOARD VIEWS-3

1 **U02** DSP PC BOARD  
(NADG-8514)

Side A



5

A B C D

PRINTED CIRCUIT BOARD VIEWS-4

1

**U02** DSP PC BOARD  
(NADG-8514)

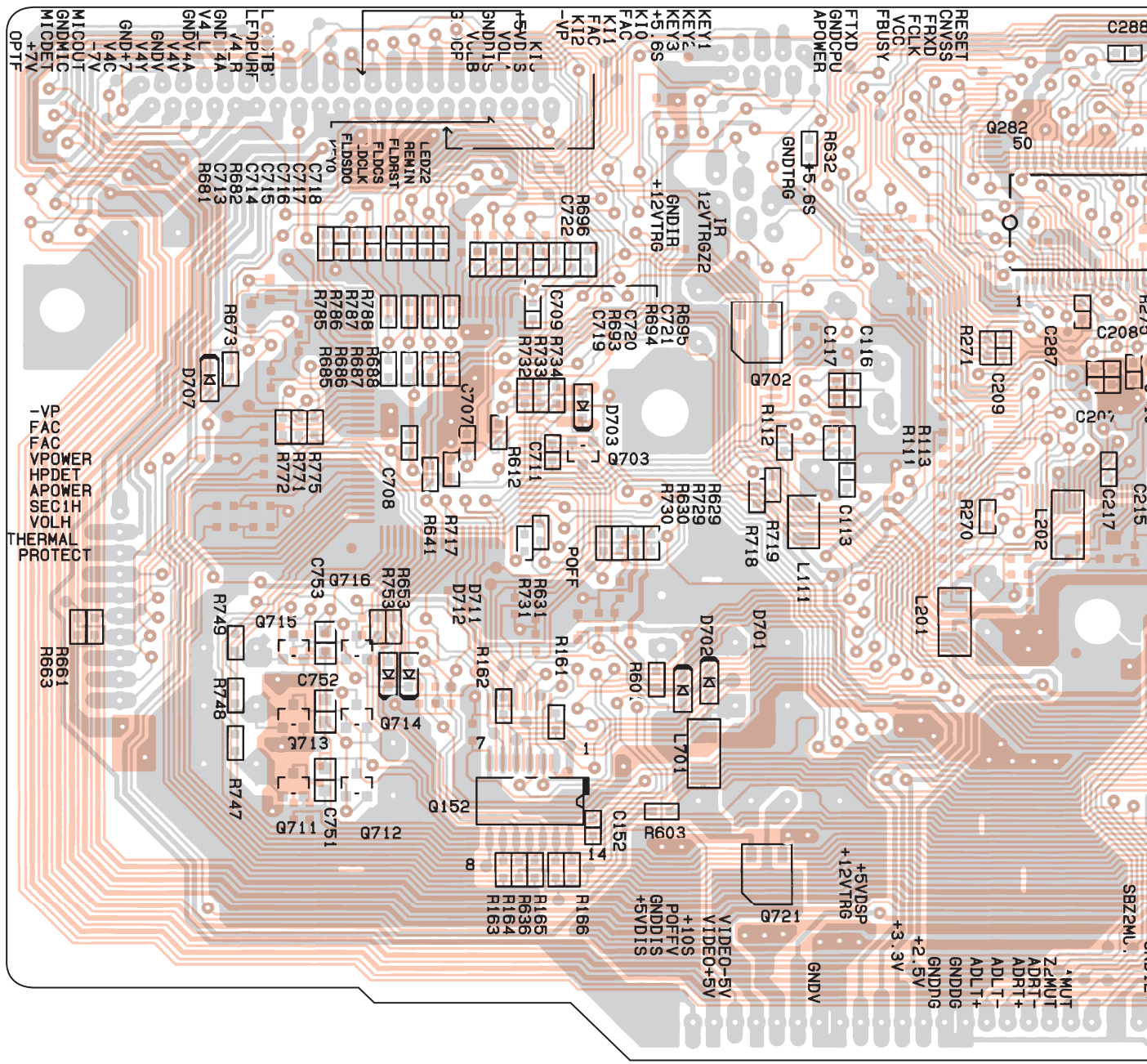
Side B

2

3

4

5



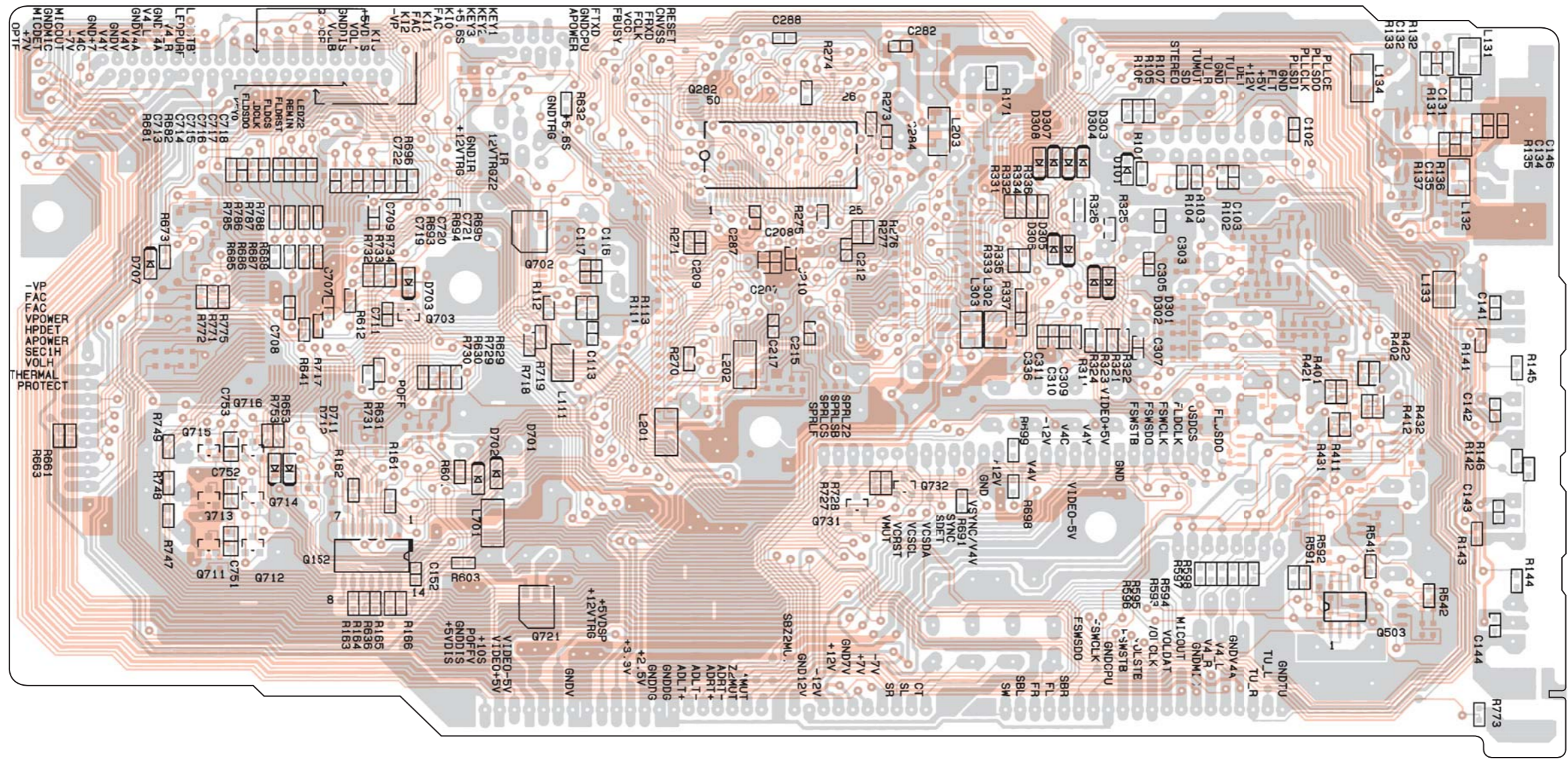




PRINTED CIRCUIT BOARD VIEWS-4

U02 DSP PC BOARD (NADG-8514)

Side B



1

2

3

4

5

A

B

C

D

E

F

G

H

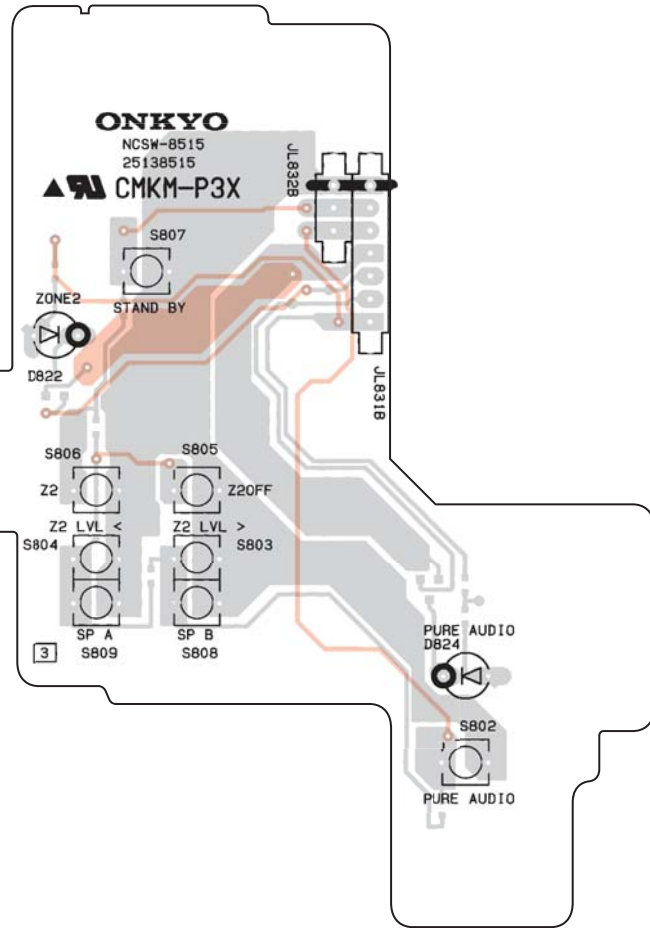
A B C D

**PRINTED CIRCUIT BOARD VIEWS-5**

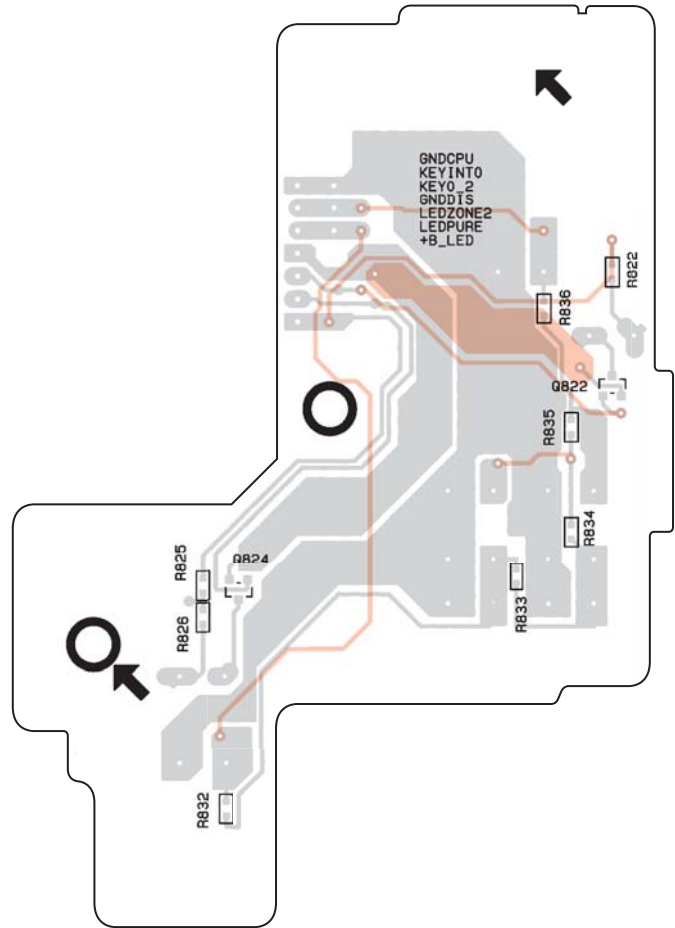
**U03 SWITCH PC BOARD (NASW-8515)**

1

Side A



Side B



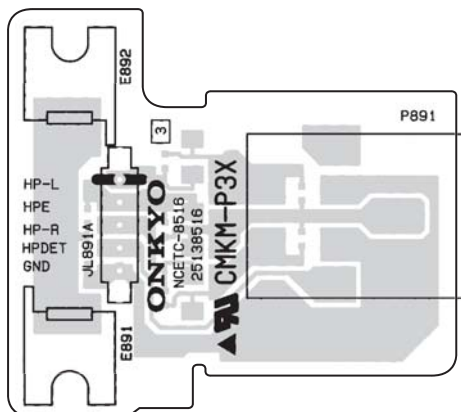
2

3

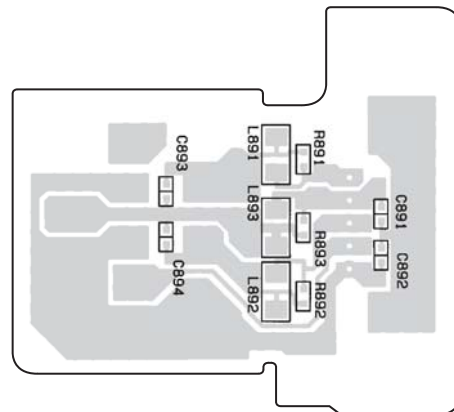
**U04 HEADPHONE JACK PC BOARD (NAETC-8516)**

4

Side A



Side B



5

A

B

C

D

PRINTED CIRCUIT BOARD VIEWS-6

U05 AMPLIFIER PC BOARD (NAAF-8523)

Component side

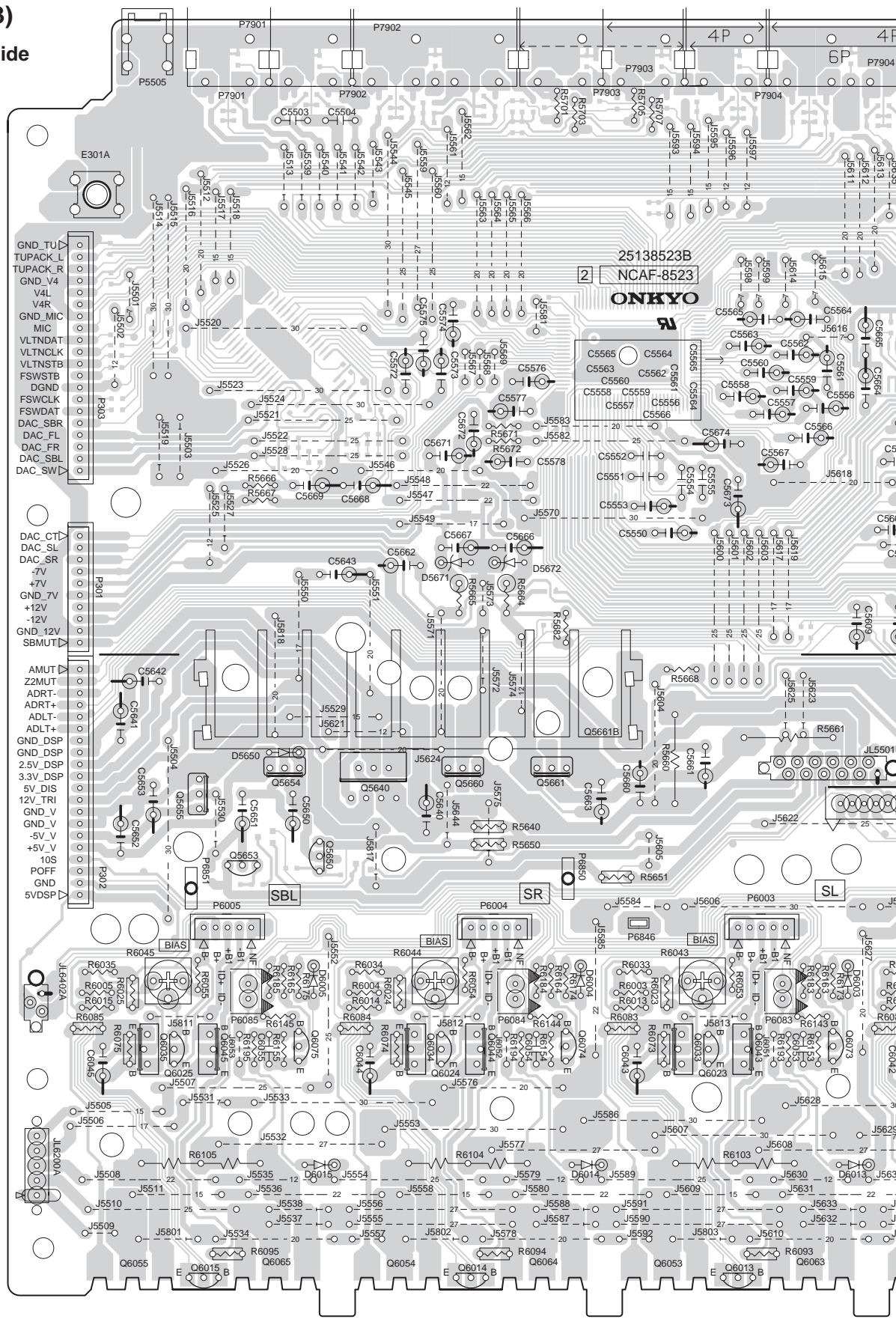
1

2

3

4

5

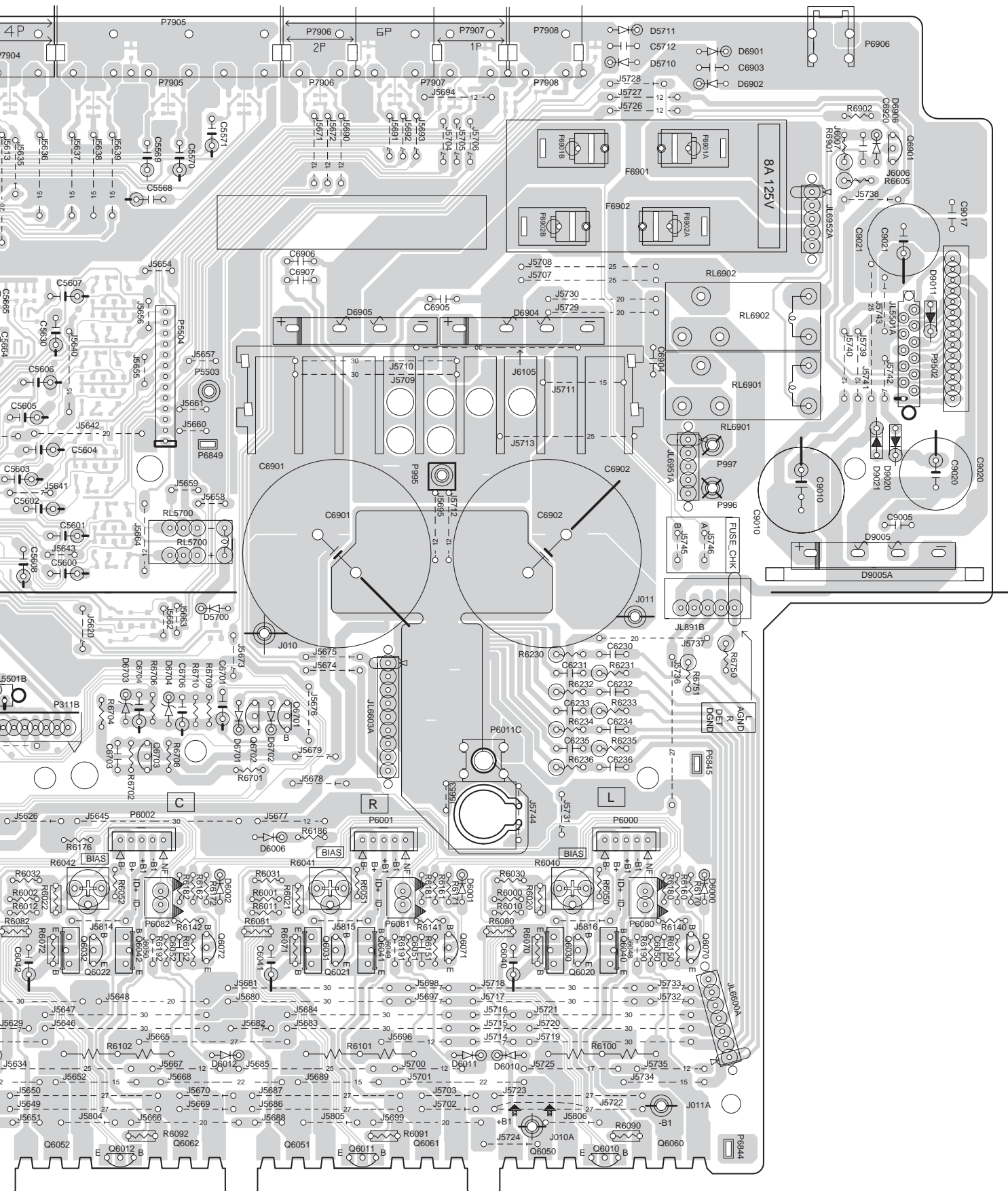


E

F

G

H



A B C D E F G H

PRINTED CIRCUIT BOARD VIEWS-6

**U05** AMPLIFIER PC BOARD  
(NAAF-8523)  
Component side

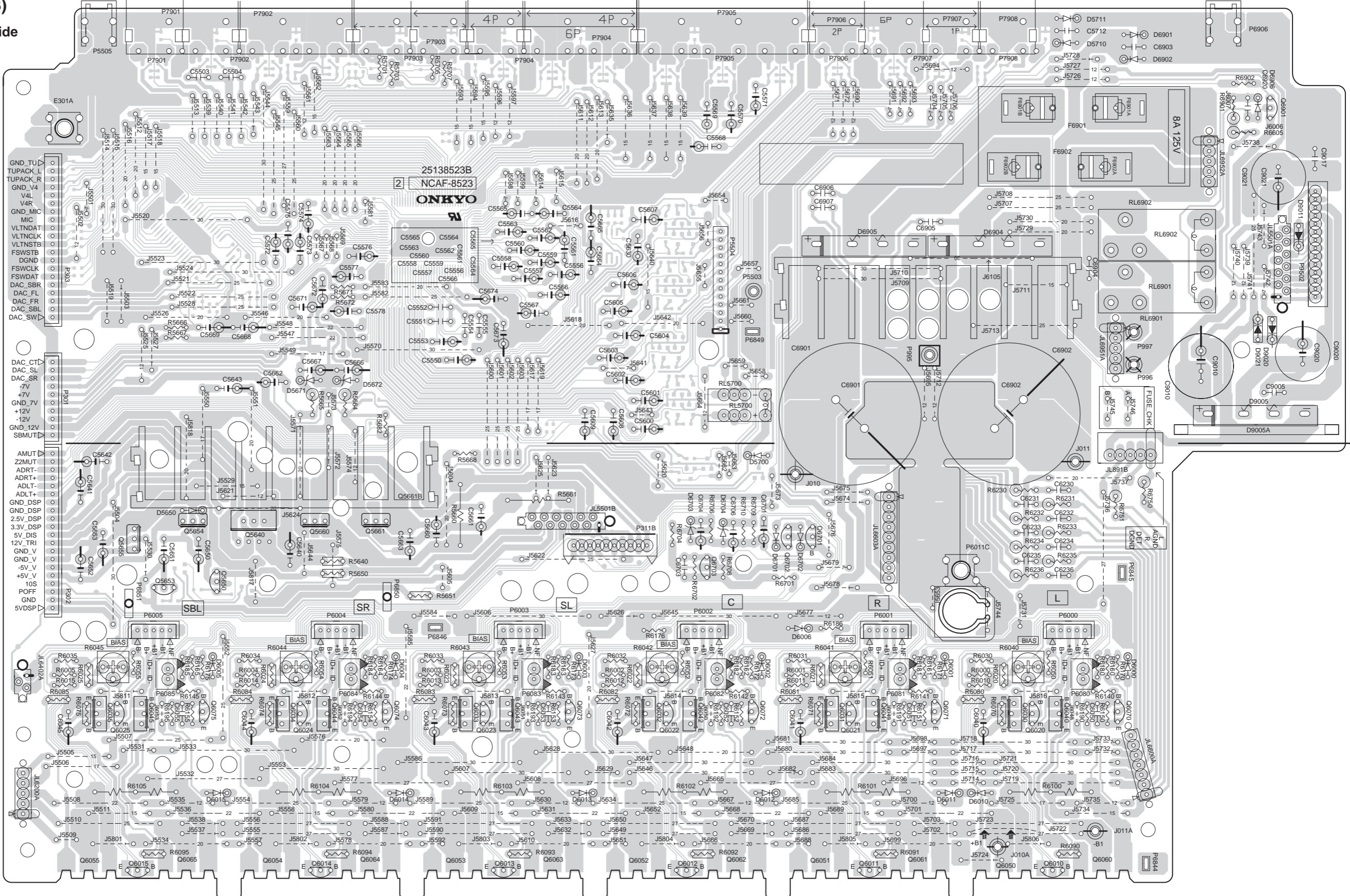
1

2

3

4

5



A

B

C

D

# PRINTED CIRCUIT BOARD VIEWS-7

## U05 AMPLIFIER PC BOARD (NAAF-8523)

Soldering side

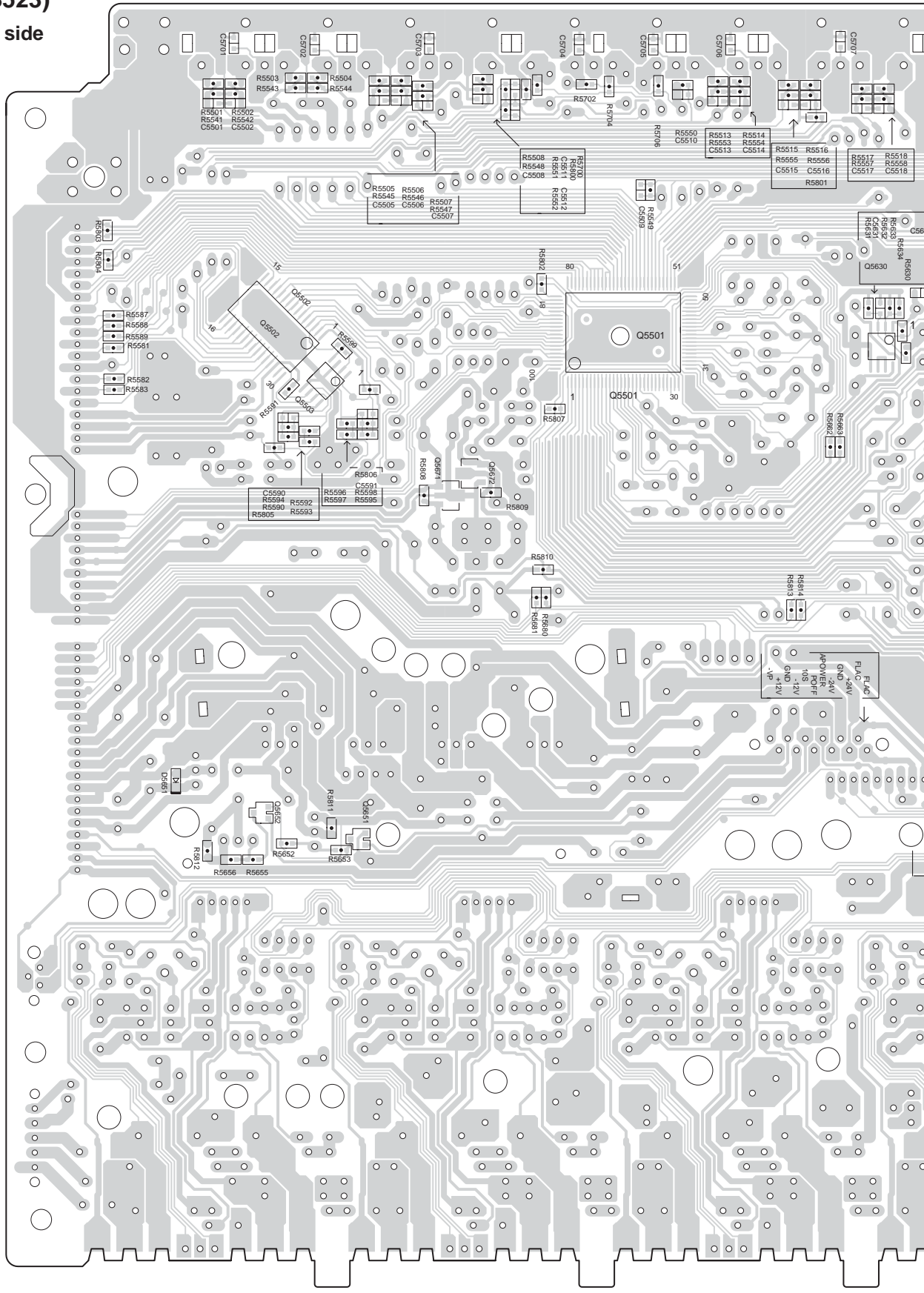
1

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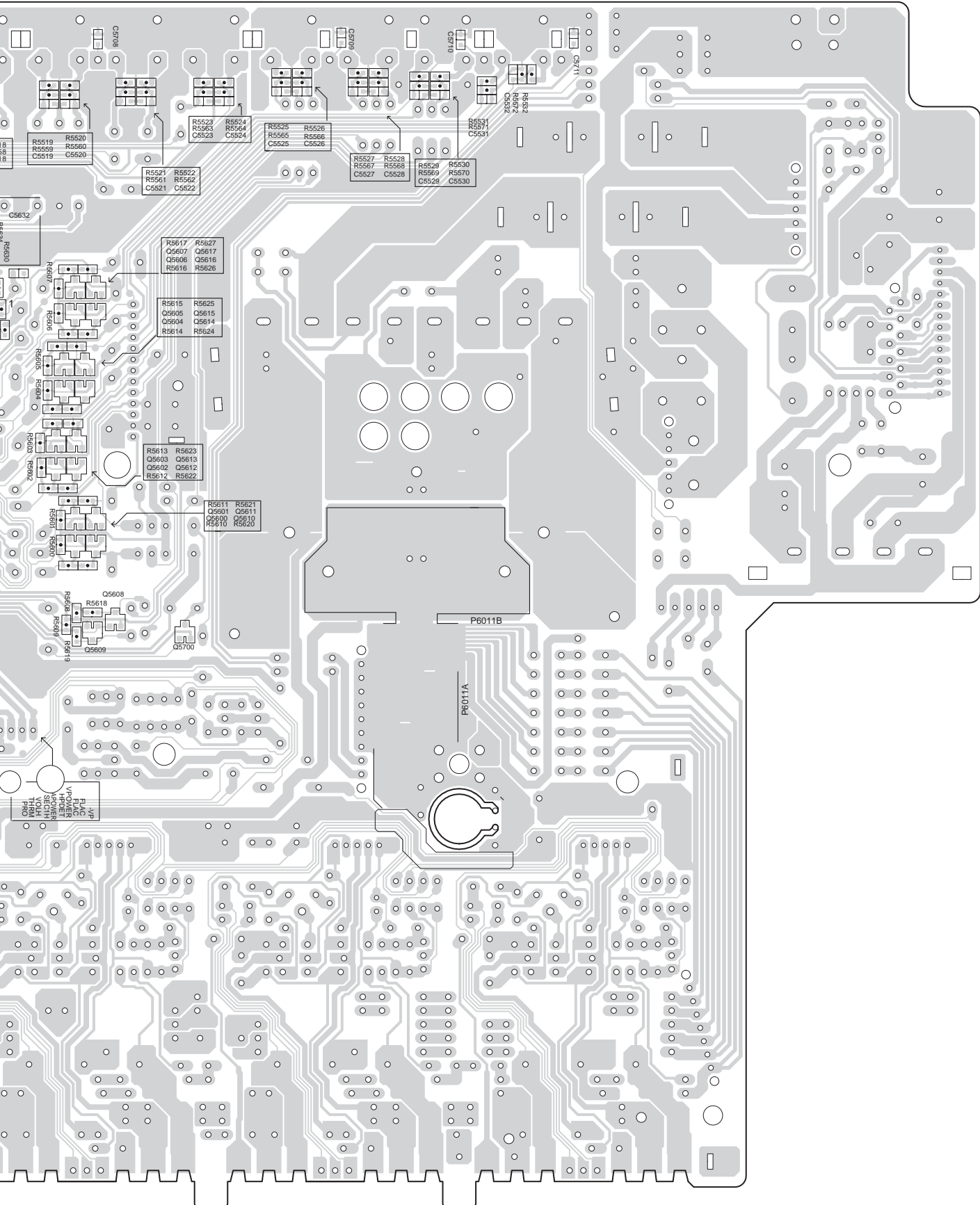


E

F

G

H



A B C D E F G H

PRINTED CIRCUIT BOARD VIEWS-7

**U05** AMPLIFIER PC BOARD

(NAAF-8523)

Soldering side

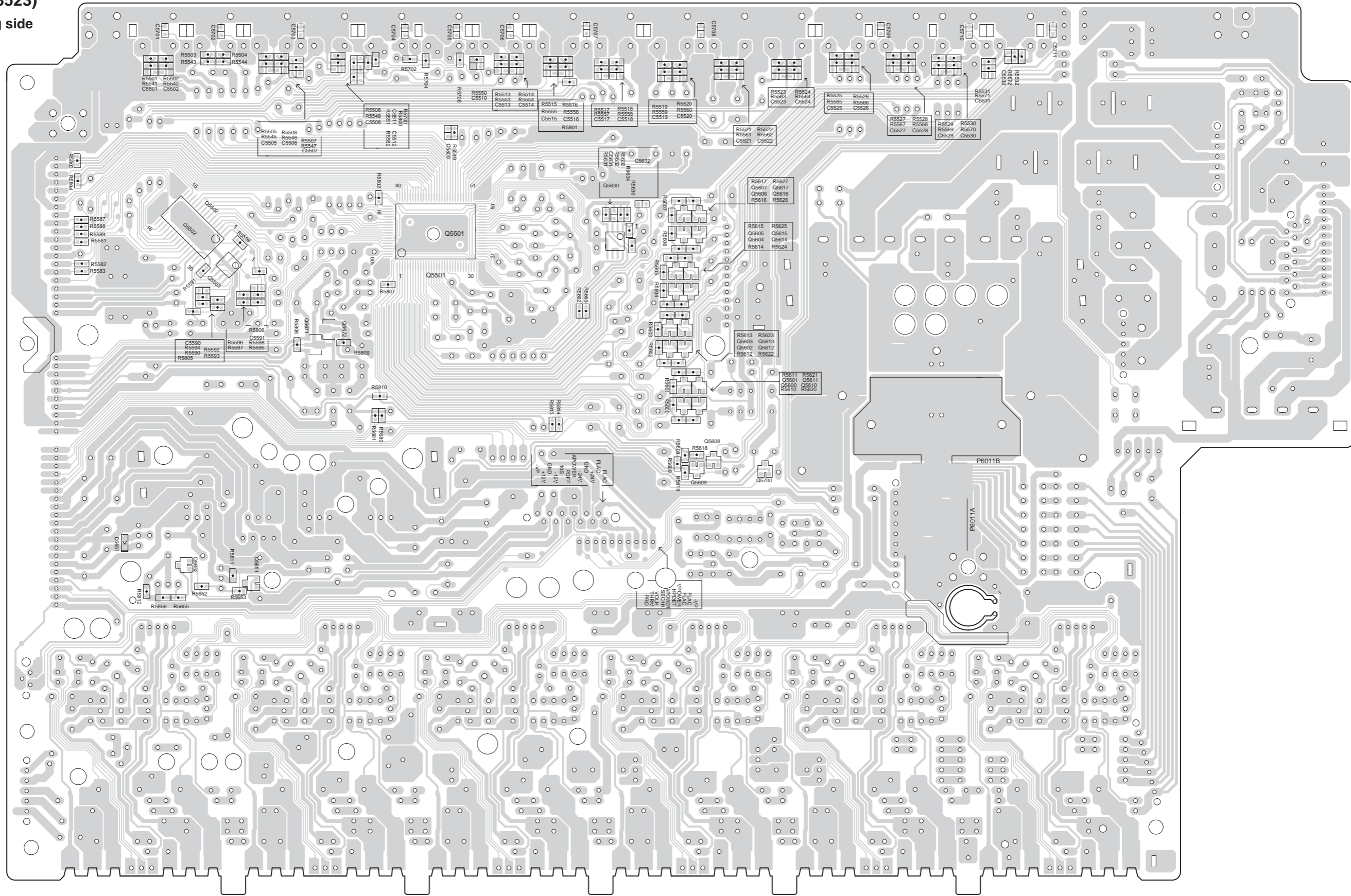
1

2

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4

5





A

B

C

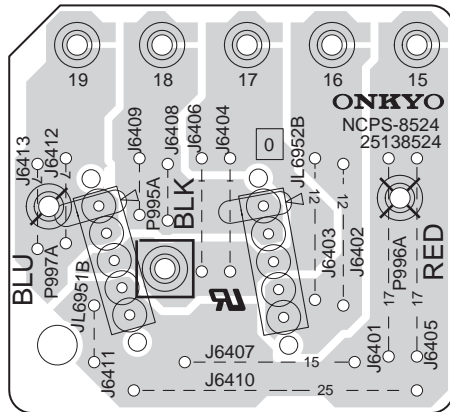
D

PRINTED CIRCUIT BOARD VIEWS-8

1

**U06 SEC. TERMINAL-2 PC BOARD (NAPS-8524)**

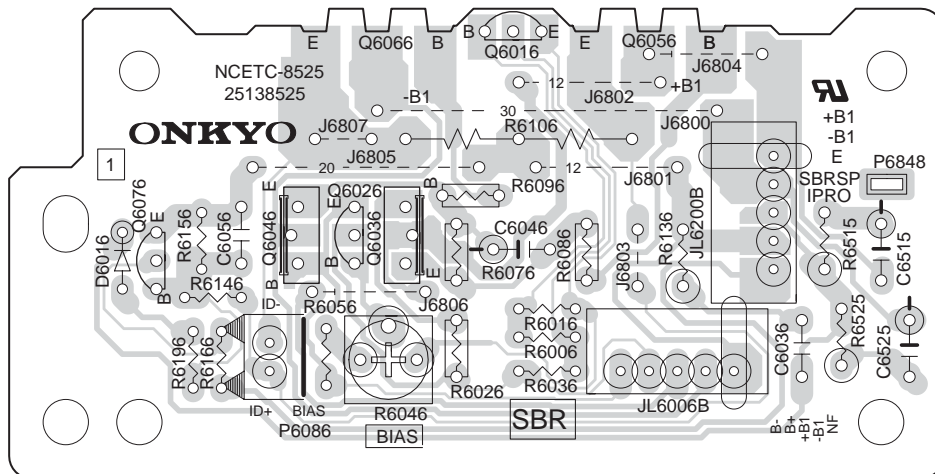
Component side



2

**U07 SBR AMPLIFIER PC BOARD (NAETC-8525)**

Component side

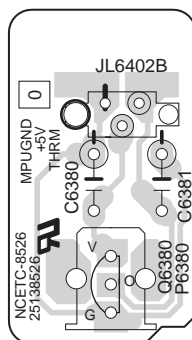


3

4

**U08 THERMAL SENSOR PC BOARD (NAETC-8526)**

Component side



5

A

B

C

D

# PRINTED CIRCUIT BOARD VIEWS-9

## U11 POWER SUPPLY-1 PC BOARD (NAPS-8544)

Component side

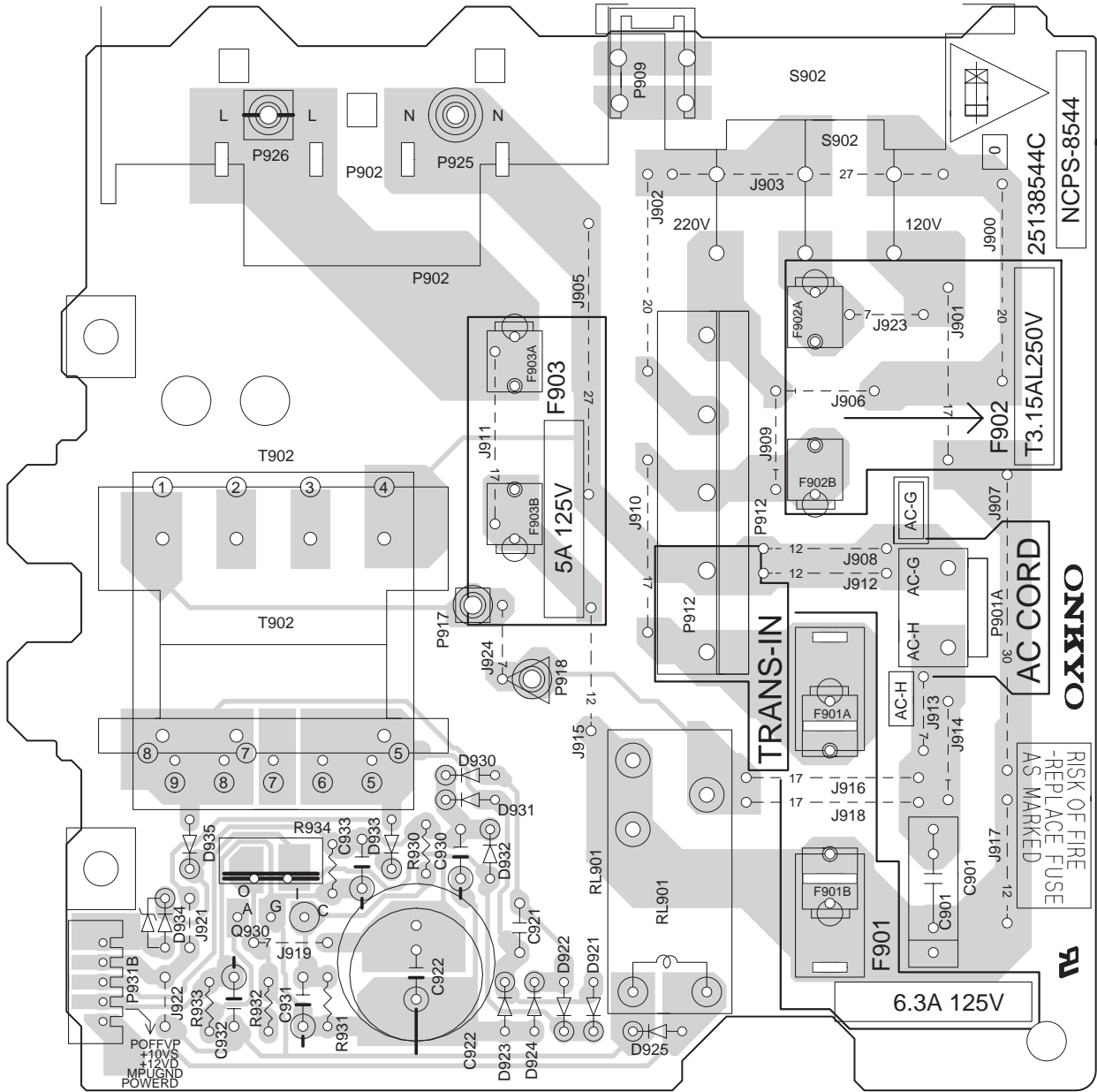
1

2

3

4

5



NCPS-8544

T3.15AL250V

AC CORD

RISK OF FIRE  
-REPLACE FUSE  
AS MARKED

6.3A 125V



A

B

C

D

PRINTED CIRCUIT BOARD VIEWS-10

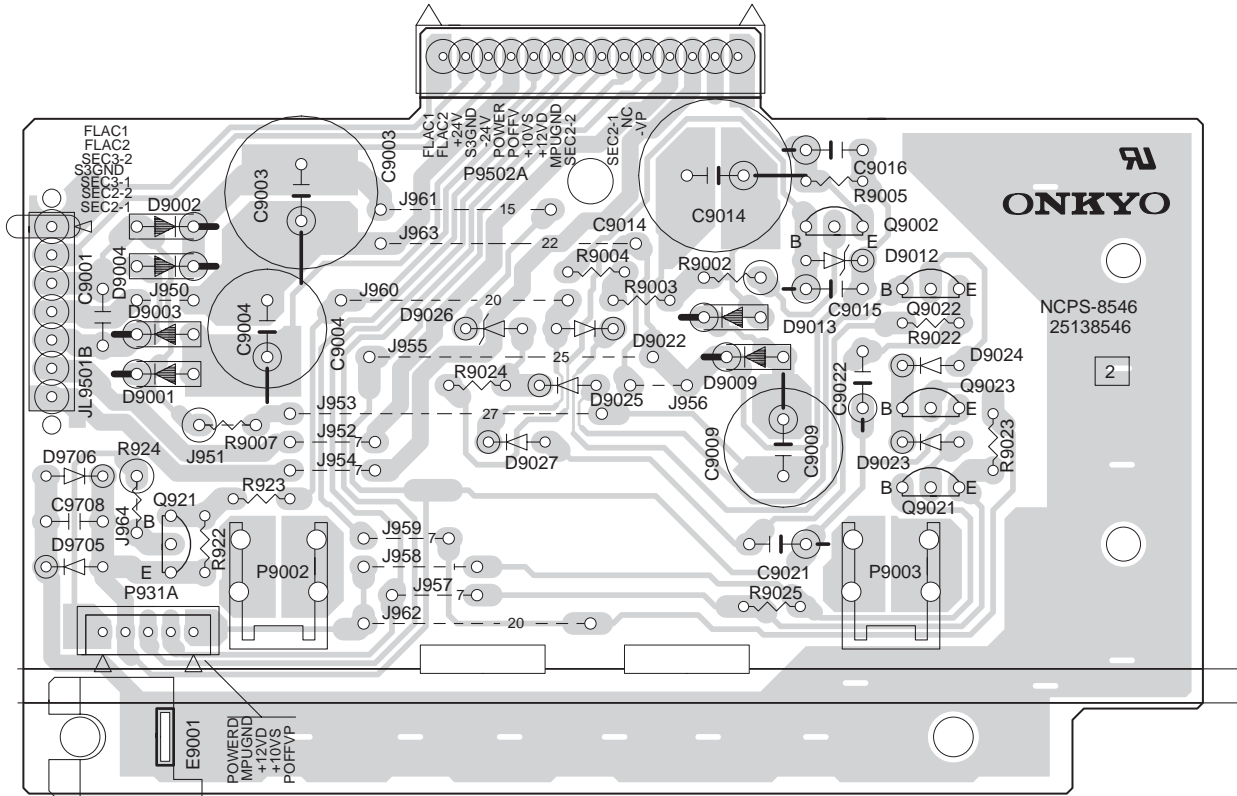
**U13 POWER SUPPLY-2 PC BOARD  
(NAPS-8546)**

Component side

1

2

3

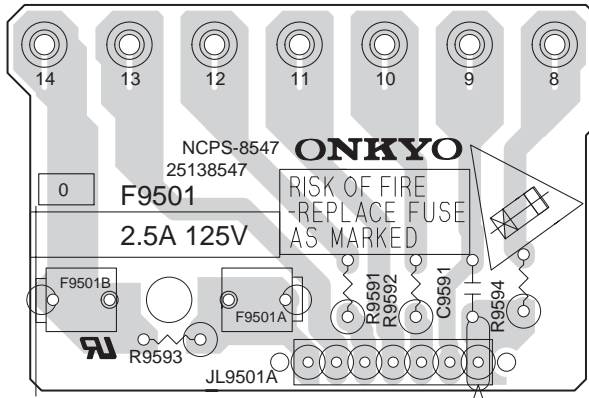


**U14 SEC. TERMINAL-1 PC BOARD  
(NAPS-8547)**

Component side

4

5



A

B

C

D

PRINTED CIRCUIT BOARD VIEWS-11

**U15** SPEAKER TERMINAL  
PC BOARD  
(NAETC-8548)

Component side

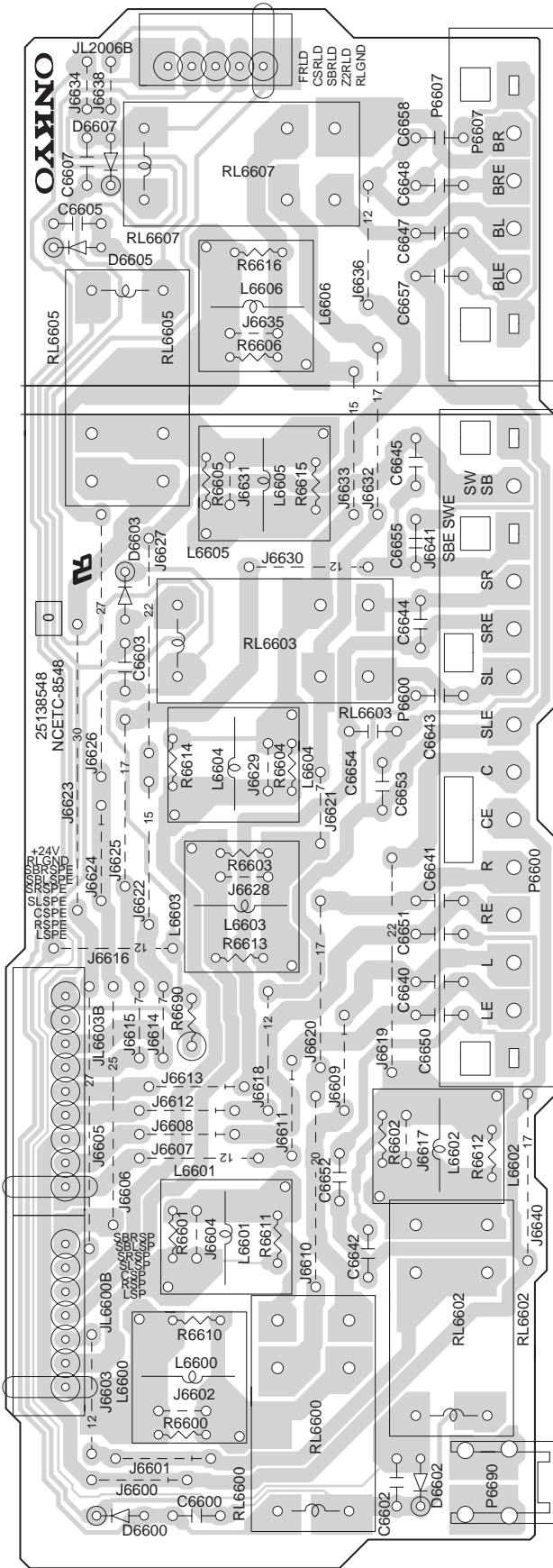
1

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4

5



A

B

C

D

# PRINTED CIRCUIT BOARD VIEWS-12

## U16 VIDEO PC BOARD (NAVD-8549)

Component side

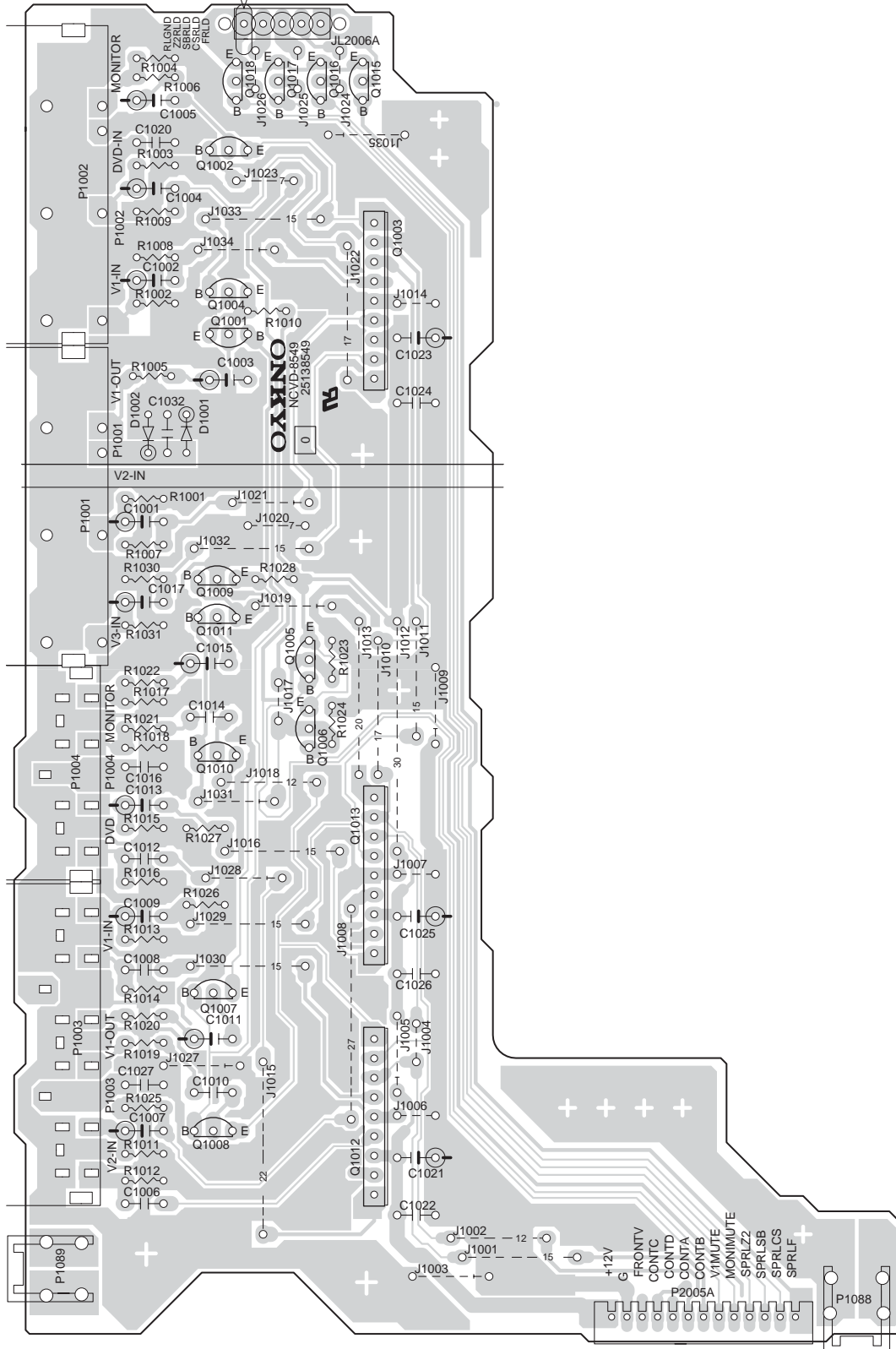
1

2

3

4

5



A

B

C

D

PRINTED CIRCUIT BOARD VIEWS-13

**U17** DRIVER AMPLIFIER  
PC BOARD  
(NAAF-8550)

Component side

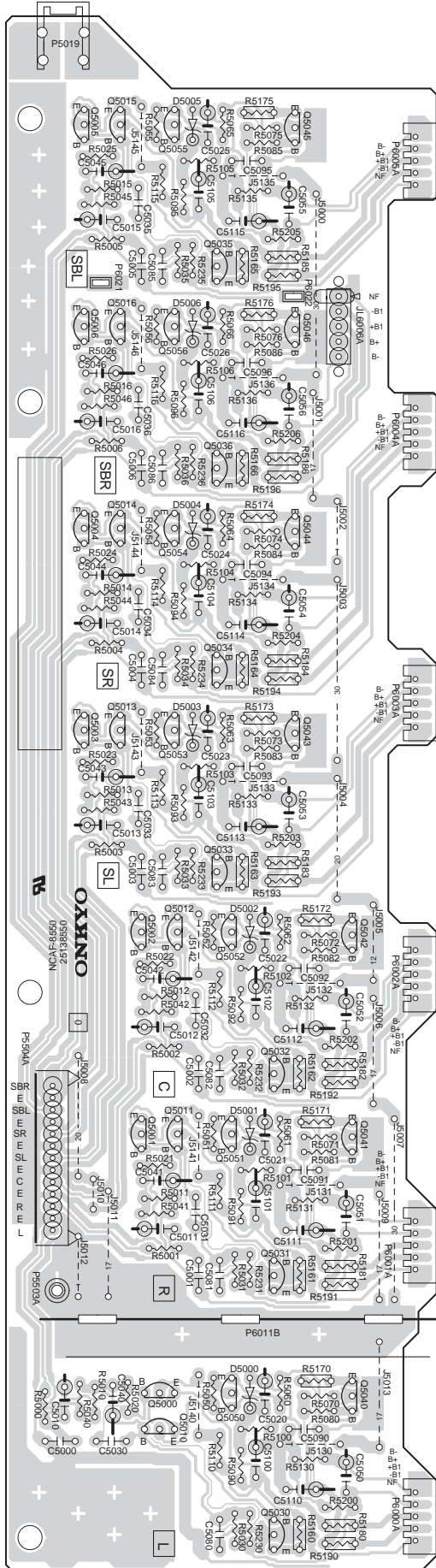
1

2

3

4

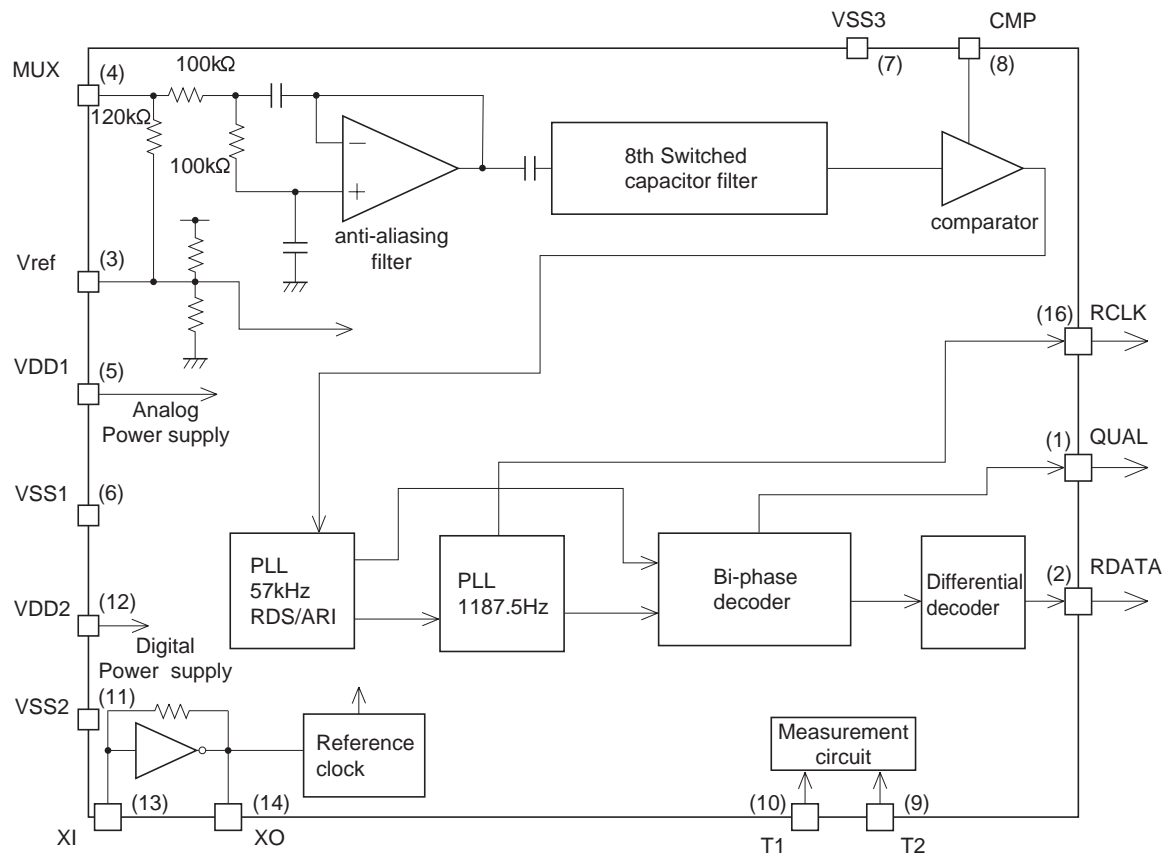
5



## IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS-1

### Q111: BU1924FS (RDS decoder)-1

#### BLOCK DIAGRAM



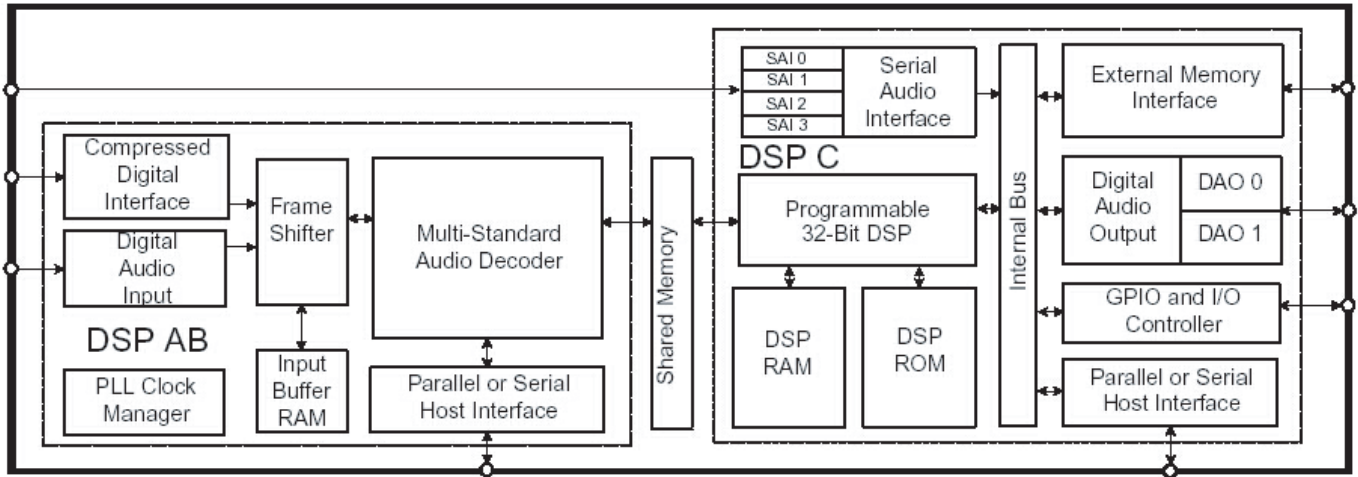
#### TERMINAL DESCRIPTION

Pin No.	Pin name	Description
1	QUAL	Output terminal of demodulator quality signal.
2	RDATA	Output terminal of demodulator data.
3	Vref	Input terminal of reference voltage.
4	MUX	Input terminal of composite signal.
5	VDD1	Analog power supply.
6	VSS1	Analog power supply.
7	VSS3	Ground.
8	CMP	Input terminal of comparator.
9	T2	Input terminal for test mode.
10	T1	Input terminal for test mode.
11	VSS2	Digital power supply.
12	VDD2	Digital power supply.
13	XI	Connect to oscillator.
14	XO	Connect to oscillator.
15	(N.C.)	---
16	RCLK	Output terminal of demodulator clock.

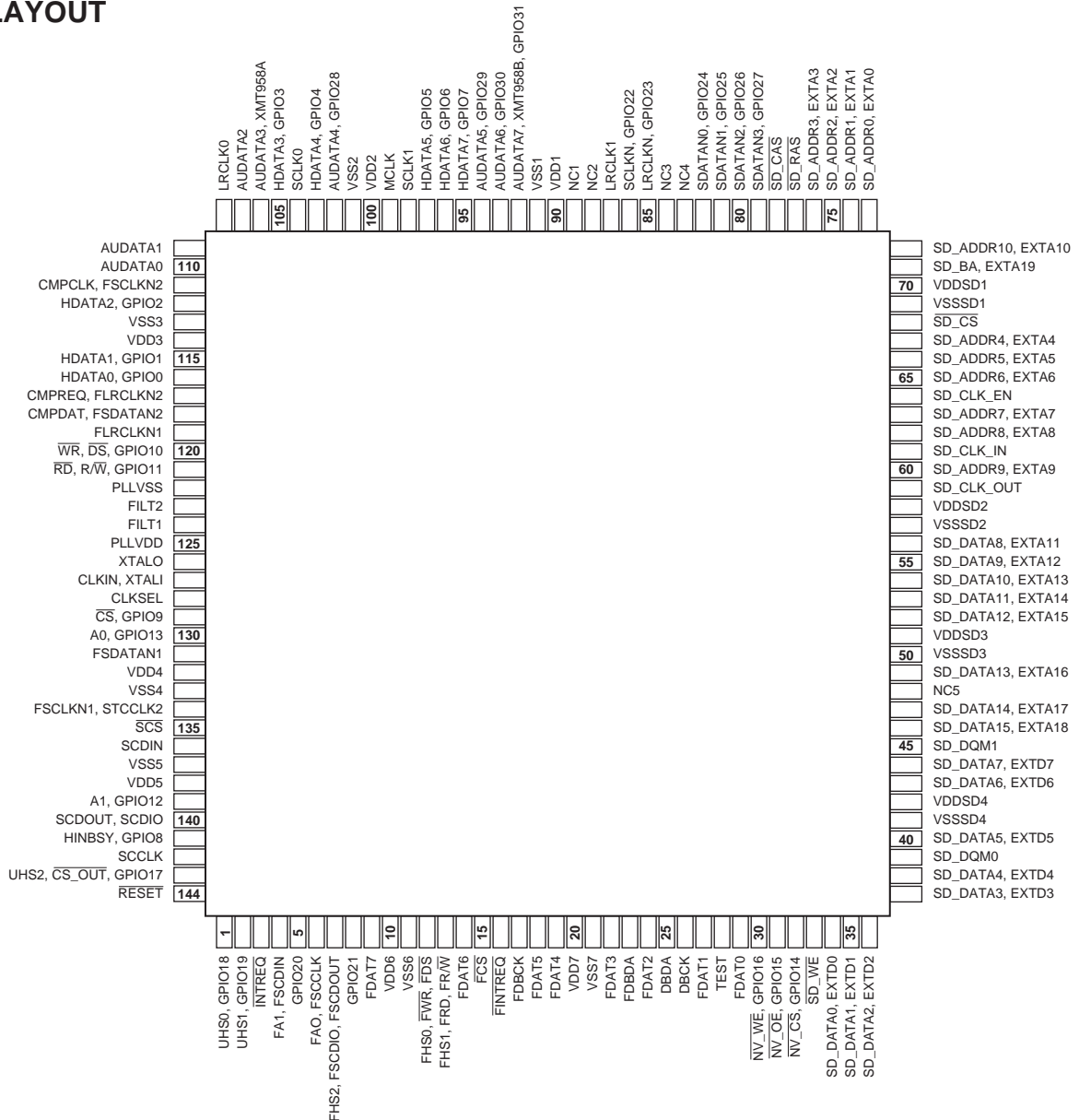
# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-2

## Q201: CS494003CQZ (Multi-Standard Audio Decoder)-1/11

### BLOCK DIAGRAM



### PIN LAYOUT





## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-3

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-2/11

#### TERMINAL DESCRIPTION

##### FILT1 — Phase-Locked Loop Filter

Connects to an external filter for the on-chip phase-locked loop.

##### FILT2 — Phase Locked Loop Filter

Connects to an external filter for the on-chip phase-locked loop.

##### CLKIN, XTALI — External Clock Input/Crystal Oscillator Input

CS494003 clock input. This pin accepts an external clock input signal that is used to drive the internal core logic. When in internal clock mode (CLKSEL == VSS), this input is connected to the internal PLL from which all internal clocks are derived. When in external clock mode (CLKSEL == VDD), this input is connected to the DSP clock. Alternatively, a 12.288 mHz crystal oscillator can be connected between XTALI and XTALO. *INPUT*

##### XTALO — Crystal Oscillator Output

Crystal oscillator output. *OUTPUT*

##### CLKSEL — DSP Clock Select

This pin selects the internal source clock. When CLKSEL is low, CLKIN is connected to the internal PLL from which all internal clocks are derived. When CLKSEL is high, the PLL is bypassed and the external clock directly drives all input logic. *INPUT*

##### FDAT7 — DSPAB Bidirectional Data Bus

FDAT6

FDAT5

FDAT4

FDAT3

FDAT2

FDAT1

FDAT0

In parallel host mode, these pins provide a bidirectional data bus to DSPAB. These pins have an internal pull-up.

*BIDIRECTIONAL - Default: INPUT*

##### FA0, FSCCLK — Host Parallel Address Bit Zero or Serial Control Port Clock

In parallel host mode, this pin serves as one of two address input pins used to select one of four parallel registers. In serial host mode, this pin serves as the serial control clock signal, specifically as the SPI clock input. *INPUT*

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-4

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-3/11

#### TERMINAL DESCRIPTION

##### FA1, FSCDIN — Host Address Bit One or SPI Serial Control Data Input

In parallel host mode, this pin serves as one of two address input pins used to select one of four parallel registers. In SPI serial host mode, this pin serves as the data input. *INPUT*

##### FHS1, $\overline{\text{FRD}}$ , $\overline{\text{FR}/\overline{\text{W}}}$ — Mode Select Bit 1 or Host Parallel Output Enable or Host Parallel R/W

DSPAB control port mode select bit 1. This bit is one of 3 control port select bits that are sampled on the rising edge of  $\overline{\text{RESET}}$  to determine the control port mode of DSPAB. In Intel parallel host mode, this pin serves as the active-low data bus enable input. In Motorola parallel host mode, this pin serves as the read-high/write-low control input signal. In serial host mode, this pin can serve as the external memory active-low data-enable output signal. *BIDIRECTIONAL - Default: INPUT*

##### FHS0, $\overline{\text{FWR}}$ , $\overline{\text{FDS}}$ — Mode Select Bit 0 or Host Write Strobe or Host Data Strobe

DSPAB control port mode select bit 0. This bit is one of 3 control port select bits that are sampled on the rising edge of  $\overline{\text{RESET}}$  to determine the control port mode of DSPAB. In Intel parallel host mode, this pin serves as the active-low data-write-input strobe. In Motorola parallel host mode, this pin serves as the active-low data-strobe-input signal. In serial host mode, this pin can serve as the external-memory active-low write-enable output signal. *BIDIRECTIONAL - Default: INPUT*

##### $\overline{\text{FCS}}$ — Host Parallel Chip Select, Host Serial SPI Chip Select

In parallel host mode, this pin serves as the active-low chip-select input signal. In serial host SPI mode, this pin is used as the active-low chip-select input signal. *INPUT*

##### FHS2, FSCDIO, FSCDOUT — Mode Select Bit 2 or Serial Control Port Data Input and Output, Parallel Port Type Select

DSPAB control port mode select bit 2. This bit is one of 3 control port select bits that are sampled on the rising edge of  $\overline{\text{RESET}}$  to determine the control port mode of DSPAB. In SPI mode this pin serves as the data output pin. In parallel host mode, this pin is sampled at the rising edge of  $\overline{\text{RESET}}$  to configure the parallel host mode as an Intel type bus or as a Motorola type bus. *BIDIRECTIONAL - Default: INPUT*

##### $\overline{\text{FINTREQ}}$ — Control Port Interrupt Request

Open-drain interrupt-request output. This pin is driven low to indicate that the DSP has outgoing control data that should be read by the host.  
*OPEN DRAIN I/O - Requires 3.3K Ohm Pull-Up*

##### FSCLKN1, STCLK2 — PCM Audio Input Bit Clock

Digital-audio bit clock input. FSCLKN1 operates asynchronously from all other DSPAB clocks. In master mode, FSCLKN1 is derived from DSPAB's internal clock generator. The active edge of FSCLKN1 can be programmed by the DSP.  
*BIDIRECTIONAL - Default: INPUT*

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-x5

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-4/11

#### TERMINAL DESCRIPTION

##### FLRCLKN1 — PCM Audio Input Sample Rate Clock

Digital-audio frame clock input. FLRCLKN1 typically is run at the sampling frequency. FLRCLKN1 operates asynchronously from all other DSPAB clocks. The polarity of FLRCLKN1 for a particular subframe can be programmed by the DSP.

*BIDIRECTIONAL - Default: INPUT*

##### FSDATAN1 — PCM Audio Data Input One

Digital-audio data input that can accept from one compressed line or 2 channels of PCM data. FSDATAN1 can be sampled with either edge of FSCLKN1, depending on how FSCLKN1 has been configured. *INPUT*

##### CMPCLK, FSCLKN2 — PCM Audio Input Bit Clock

Digital-audio bit clock input. FSCLKN2 operates asynchronously from all other DSPAB clocks. The active edge of FSCLKN2 can be programmed by the DSP.

*BIDIRECTIONAL - Default: INPUT*

##### COMPDAT, FSDATAN2 — PCM Audio Data Input Number Two

Digital-audio data input that can accept either one compressed line or 2 channels of PCM data. FSDATAN2 can be sampled with either edge of FSCLKN2, depending on how FSCLKN2 has been configured.

*BIDIRECTIONAL - Default: INPUT*

##### FDBCK — Reserved

This pin is reserved and should be pulled up with an external 3.3k resistor. *INPUT*

##### FDBDA — Reserved

This pin is reserved and should be pulled up with an external 3.3k resistor.

*BIDIRECTIONAL - Default: INPUT*

##### PLLVDV — PLL Supply Voltage

2.5 V PLL supply.

##### PLLVSS — PLL Ground Voltage

PLL ground.

##### RESET — Master Reset Input

Asynchronous active-low master reset input. Reset should be low at power-up to initialize the DSP and to guarantee that the device is not active during initial power-on stabilization periods. At the rising edge of reset the host interface mode of DSPAB is selected contingent on the state of the FHS0, FHS1, and FHS2 pins. At the rising edge of reset the host interface mode of DSPC is selected contingent on the state of the UHS0, UHS1, and UHS2 pins. If reset is low all bidirectional pins are high-Z inputs. *INPUT*

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-6

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-5/11

#### TERMINAL DESCRIPTION

##### TEST — Reserved

This should be tied low for normal operation. *INPUT*

##### MCLK — Audio Master Clock

Bidirectional master audio clock. As an output, MCLK provides a low jitter oversampling clock. MCLK supports all standard oversampling frequencies. *BIDIRECTIONAL - Default: INPUT*

##### SCLK0 — Audio Output Bit Clock

Bidirectional digital-audio output bit clock for AUDATA0, AUDATA1, AUDATA2, and AUDATA3. As an output, SCLK0 can provide 32 Fs, 64 Fs, 128 Fs, 256 Fs, or 512 Fs frequencies and is synchronous to MCLK. As an input, SCLK0 is independent of MCLK.

*BIDIRECTIONAL - Default: INPUT*

##### SCLK1 — Audio Output Bit Clock

Bidirectional digital-audio output bit clock for AUDATA4, AUDATA5, AUDATA6, and AUDATA7. As an output, SCLK1 can provide 32 Fs, 64 Fs, 128 Fs, 256 Fs, or 512 Fs frequencies and is synchronous to MCLK. As an input, SCLK1 is independent of MCLK.

*BIDIRECTIONAL - Default: INPUT*

##### LRCLK0 — Audio Output Sample Rate Clock

Bidirectional digital-audio output frame clock for AUDATA0, AUDATA1, AUDATA2, and AUDATA3. As an output, LRCLK0 can provide all standard output sample rates up to 192 kHz and is synchronous to MCLK. As an input, LRCLK0 is independent of MCLK.

*BIDIRECTIONAL - Default: INPUT*

##### LRCLK1 — Audio Output Sample Rate Clock

Bidirectional digital-audio output frame clock for AUDATA4, AUDATA5, AUDATA6, and AUDATA7. As an output, LRCLK1 can provide all standard output sample rates up to 192 kHz and is synchronous to MCLK. As an input, LRCLK1 is independent of MCLK.

*BIDIRECTIONAL - Default: INPUT*

##### AUDATA0 — Digital Audio Output 0

PCM digital-audio data output. *OUTPUT*

##### AUDATA1 — Digital Audio Output 1

PCM digital-audio data output. *OUTPUT*

##### AUDATA2 — Digital Audio Output 2

PCM digital-audio data output. *OUTPUT*

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-7

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-6/11

#### TERMINAL DESCRIPTION

##### **AUDATA3, XMT958A — Digital Audio Output 3, S/PDIF Transmitter**

CMOS level output that outputs a biphasemark encoded (S/PDIF) IEC60958 signal or digital audio data which is capable of carrying two channels of PCM digital audio. *OUTPUT*

##### **AUDATA4, GPIO28 — Digital Audio Output 4, General Purpose I/O**

PCM digital-audio data output. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: OUTPUT*

##### **AUDATA5, GPIO29 — Digital Audio Output 5, General Purpose I/O**

PCM digital-audio data output. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: OUTPUT*

##### **AUDATA6, GPIO30 — Digital Audio Output 6, General Purpose I/O**

PCM digital-audio data output. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: OUTPUT*

##### **AUDATA7, XMT958B, GPIO3 — Digital Audio Output 7, S/PDIF Transmitter, General Purpose I/O**

CMOS level output that contains a biphasemark encoded (S/PDIF) IEC60958 signal or digital audio data which is capable of carrying two channels of PCM digital audio. This pin can also act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: OUTPUT*

##### **DBCK — Debug Clock**

Must be tied high to 3.3k ohm resistor. *INPUT*

##### **DBDA — Debug Data**

Must be tied high to 3.3k ohm resistor. *BIDIRECTIONAL - Default: INPUT*

##### **SLCKN, GPIO22 — PCM Audio Input Bit Clock, General Purpose I/O**

Digital-audio bit clock that is an input. SCLKN operates asynchronously from all other DSPAB clocks. The active edge of SCLKN can be programmed by the DSP. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

##### **LRCLKN, GPIO23 — PCM Audio Input Sample Rate Clock, General Purpose I/O**

Digital-audio frame clock input. LRCLKN operates asynchronously from all other DSPAB clocks. The polarity of LRCLKN for a particular subframe can be programmed by the DSP. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

##### **SDATAN0, GPIO24 — PCM Audio Input Data, General Purpose I/O**

Digital-audio PCM data input. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-8

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-7/11

#### TERMINAL DESCRIPTION

##### **SDATAN1, GPIO25 — PCM Audio Input Data, General Purpose I/O**

Digital-audio PCM data input. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

##### **SDATAN2, GPIO26 — PCM Audio Input Data, General Purpose I/O**

Digital-audio PCM data input. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

##### **SDATAN3, GPIO27 — PCM Audio Input Data, General Purpose I/O**

Digital-audio PCM data input. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

##### **$\overline{\text{SCS}}$ — Host Serial SPI Chip Select**

SPI mode active-low chip-select input signal. *INPUT*

##### **SCCLK — Serial Control Port Clock**

This pin serves as the serial SPI clock input. *INPUT*

##### **SCDIN — SPI Serial Control Data Input**

In SPI mode this pin serves as the data input pin. *INPUT*

##### **SCDOUT, SCDIO — Serial Control Port Data Input and Output**

In SPI mode this pin serves as the data output pin. *BIDIRECTIONAL - Default: OUTPUT in SPI mode*

##### **$\overline{\text{INTREQ}}$ — Control Port Interrupt Request**

Open-drain interrupt-request output. This pin is driven low to indicate that DSPC has outgoing control data and should be serviced by the host.

*OPEN DRAIN I/O - Requires 3.3K Ohm Pull-Up*

##### **HDATA7, GPIO7 — DSPC Bidirectional Data Bus, General Purpose I/O**

**HDATA6, GPIO6**

**HDATA5, GPIO5**

**HDATA4, GPIO4**

**HDATA3, GPIO3**

**HDATA2, GPIO2**

**HDATA1, GPIO1**

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-9

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-8/11

#### TERMINAL DESCRIPTION

##### HDATA0, GPIO0

In parallel host mode, these pins provide a bidirectional data bus. These pins can also act as general purpose input or output pins that can be individually configured and controlled by DSPC. These pins have an internal pull-up. *BIDIRECTIONAL - Default: INPUT*

##### A0, GPIO13 — Host Parallel Address Bit 0, General Purpose I/O

In parallel host mode, this pin serves as the LS Bit of a two bit address input used to select one of four parallel registers. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

##### A1, GPIO12 — Host Address Bit 1, General Purpose I/O

In parallel host mode, this pin serves as the MS Bit of a two bit address input used to select one of four parallel registers. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

##### $\overline{\text{RD}}$ , $\overline{\text{R/W}}$ , GPIO11 — Host Parallel Output Enable, Host Parallel $\overline{\text{R/W}}$ , General Purpose I/O

In Intel parallel host mode, this pin serves as the active-low data bus enable input. In Motorola parallel host mode, this pin serves as the read-high/write-low control input signal. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. This pin has an internal pull-up. *BIDIRECTIONAL - Default: INPUT*

##### $\overline{\text{WR}}$ , $\overline{\text{DS}}$ , GPIO10 — Host Write Strobe, Host Data Strobe, General Purpose I/O

In Intel parallel host mode, this pin serves as the active-low data bus enable input. In Motorola parallel host mode, this pin serves as the read-high/write-low control input signal. In serial host mode, this pin can serve as a general purpose input or output bit. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. This pin has an internal pull-up. *BIDIRECTIONAL - Default: INPUT*

##### $\overline{\text{CS}}$ , GPIO9 — Host Parallel Chip Select, General Purpose I/O

In parallel host mode, this pin serves as the active-low chip-select input signal. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. This pin has an internal pull-up. *BIDIRECTIONAL - Default: INPUT*

##### HINBSY, GPIO8 — Input Host Message Status, General Purpose I/O

This pin indicates that serial or parallel communication data written to the DSP has not been read yet. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. This pin has an internal pull-up. *BIDIRECTIONAL - Default: OUTPUT*

##### SD\_DATA15, EXTA18 — SDRAM Data Bus, SRAM External Address Bus

SD\_DATA14, EXTA17

SD\_DATA13, EXTA16

SD\_DATA12, EXTA15

SD\_DATA11, EXTA14

SD\_DATA10, EXTA13

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-10

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-9/11

#### TERMINAL DESCRIPTION

**SD\_DATA9, EXTA12**

**SD\_DATA8, EXTA11**

SDRAM data bus 15:8. SRAM external address bus 18:11. *OUTPUT*

**SD\_DATA7, EXTD7 — SDRAM Data Bus, SRAM External Data Bus**

**SD\_DATA6, EXTD6**

**SD\_DATA5, EXTD5**

**SD\_DATA4, EXTD4**

**SD\_DATA3, EXTD3**

**SD\_DATA2, EXTD2**

**SD\_DATA1, EXTD1**

**SD\_DATA0, EXTD0**

SDRAM data bus 7:0. SRAM external data bus 7:0. *BIDIRECTIONAL - Default: INPUT*

**SD\_ADDR10, EXTA10 — SDRAM Address Bus, SRAM External Address Bus**

**SD\_ADDR9, EXTA9**

**SD\_ADDR8, EXTA8**

**SD\_ADDR7, EXTA7**

**SD\_ADDR6, EXTA6**

**SD\_ADDR5, EXTA5**

**SD\_ADDR4, EXTA4**

**SD\_ADDR3, EXTA3**

**SD\_ADDR2, EXTA2**

**SD\_ADDR1, EXTA1**

**SD\_ADDR0, EXTA0**

SDRAM address bus 10:0. SRAM external address bus 10:0. *OUTPUT*

**SD\_CLK\_OUT — SDRAM Clock Output**

SDRAM clock output. *OUTPUT*

**SD\_CLK\_IN — SDRAM Re-timing Clock Input**

SDRAM re-timing clock input. *INPUT*

**SD\_CLK\_EN — SDRAM Clock Enable**

SDRAM clock enable. *OUTPUT*



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-11

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-10/11

#### TERMINAL DESCRIPTION

##### **SD\_BA, EXTA19 — SDRAM Bank Address Select, SRAM External Address Bus**

SDRAM bank address select. SRAM external address bus 19. *OUTPUT*

##### **$\overline{\text{SD\_CS}}$ — SDRAM Chip Select**

SDRAM chip select. *OUTPUT*

##### **$\overline{\text{SD\_RAS}}$ — SDRAM Row Address Strobe**

SDRAM row address strobe. *OUTPUT*

##### **$\overline{\text{SD\_CAS}}$ — SDRAM Column Address Strobe**

SDRAM column address strobe. *OUTPUT*

##### **$\overline{\text{SD\_WE}}$ — SDRAM Write Enable**

SDRAM write enable. *OUTPUT*

##### **SD\_DQM1 — SDRAM Data Mask 1**

SDRAM data mask 1. *OUTPUT*

##### **SD\_DQM0 — SDRAM Data Mask 2**

SDRAM data mask 0. *OUTPUT*

##### **$\overline{\text{NV\_CS}}$ , GPIO14 — SRAM Chip Select, General Purpose I/O**

SRAM/FLASH chip select. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: OUTPUT*

##### **$\overline{\text{NV\_OE}}$ , GPIO15 — SRAM Output Enable, General Purpose I/O**

SRAM/FLASH output enable. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: OUTPUT*

##### **$\overline{\text{NV\_WE}}$ , GPIO16 — SRAM Write Enable, General Purpose I/O**

SRAM/FLASH write enable. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: OUTPUT*

##### **UHS2, CS\_OUT, GPIO17 — Mode Select Bit 2, External Serial Memory Chip Select, General Purpose I/O**

DSPC control port mode select bit 2. This pin is sampled at the rising edge of  $\overline{\text{RESET}}$  and is one of three pins used to select the control port mode. In serial control port mode, this pin can serve as an output to provide the chip-select for a serial EEPROM. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. *BIDIRECTIONAL - Default: INPUT*

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-12

### Q201: CS494003CQZ (Multi-Standard Audio Decoder)-11/11

#### TERMINAL DESCRIPTION

##### UHS0, GPIO18 — Mode Select Bit 0, General Purpose I/O

DSPC control port mode select bit 0. This pin is sampled at the rising edge of  $\overline{\text{RESET}}$  and is one of three pins used to select the control port mode. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC.

*BIDIRECTIONAL - Default: INPUT*

##### UHS1, GPIO19 — Mode Select Bit 1, General Purpose I/O

DSPC control port mode select bit 1. This pin is sampled at the rising edge of  $\overline{\text{RESET}}$  and is one of three pins used to select the control port mode. This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC.

*BIDIRECTIONAL - Default: INPUT*

##### GPIO20 — General Purpose I/O

This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. This pin has an internal pull-up.

*BIDIRECTIONAL - Default: INPUT*

##### GPIO21 — General Purpose I/O

This pin can act as a general-purpose input or output that can be individually configured and controlled by DSPC. This pin has an internal pull-up.

*BIDIRECTIONAL - Default: INPUT*

##### VDD[7:1] — 2.5V Supply Voltage

2.5V supply voltage.

##### VSS — 2.5V Ground

2.5V ground.

##### NC[5:1] — No Connect

Recommended tie to ground.

##### VDDSD[4:1] — 3.3V SDRAM/SRAM/EPROM Interface Supply

3.3V SDRAM/SRAM/EPROM supply.

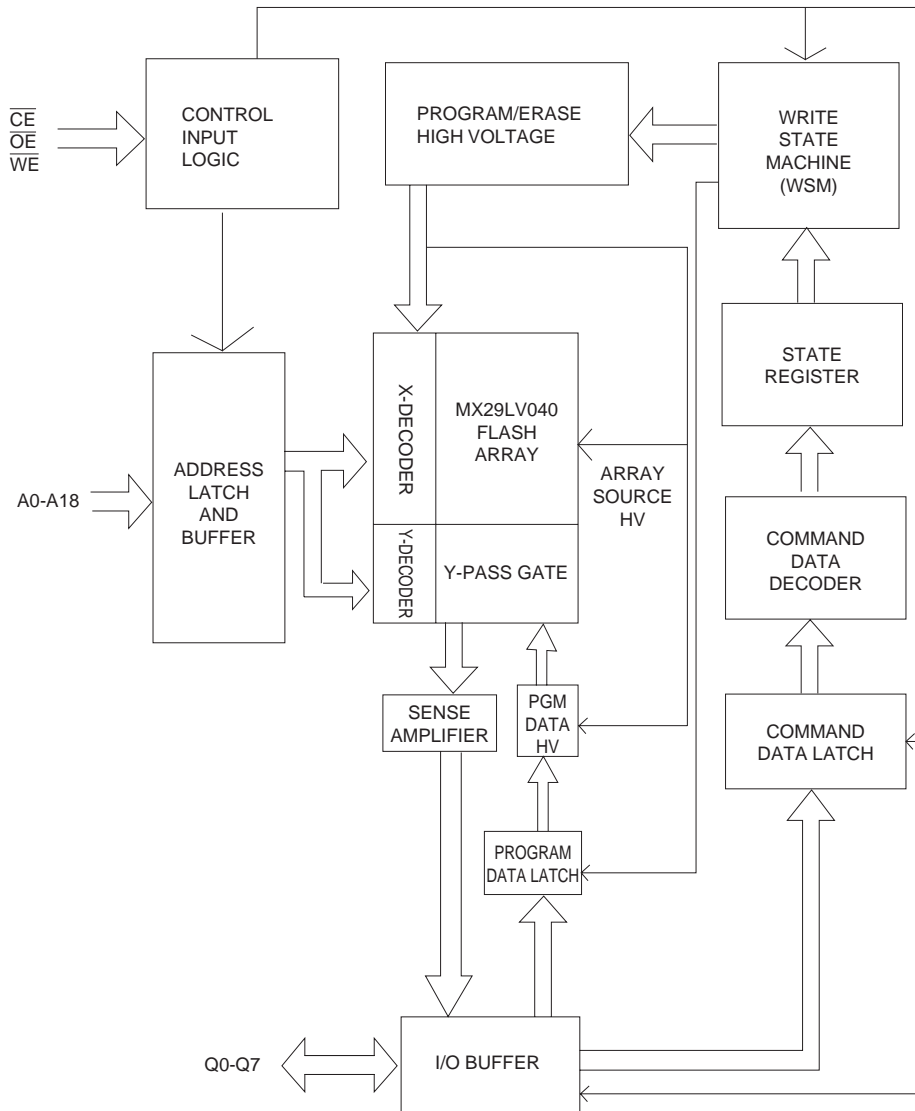
##### VSSSD — 3.3V SDRAM/SRAM/EPROM Interface Ground

3.3V ground.

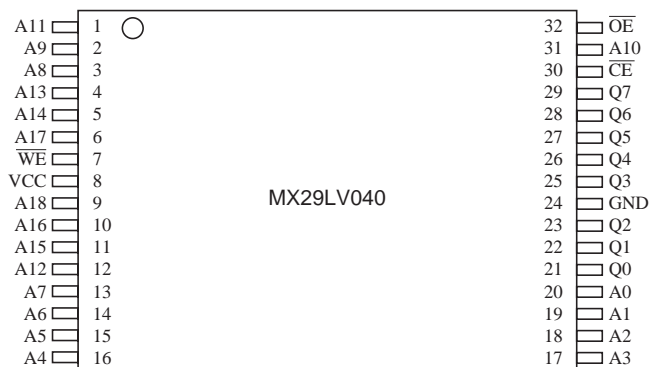
# IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS-13

## Q281: MX29LV040 (4M-Bit CMOS Single Voltage 3V Only Equal Sector Flash Memory)

### BLOCK DIAGRAM



### PIN LAYOUT



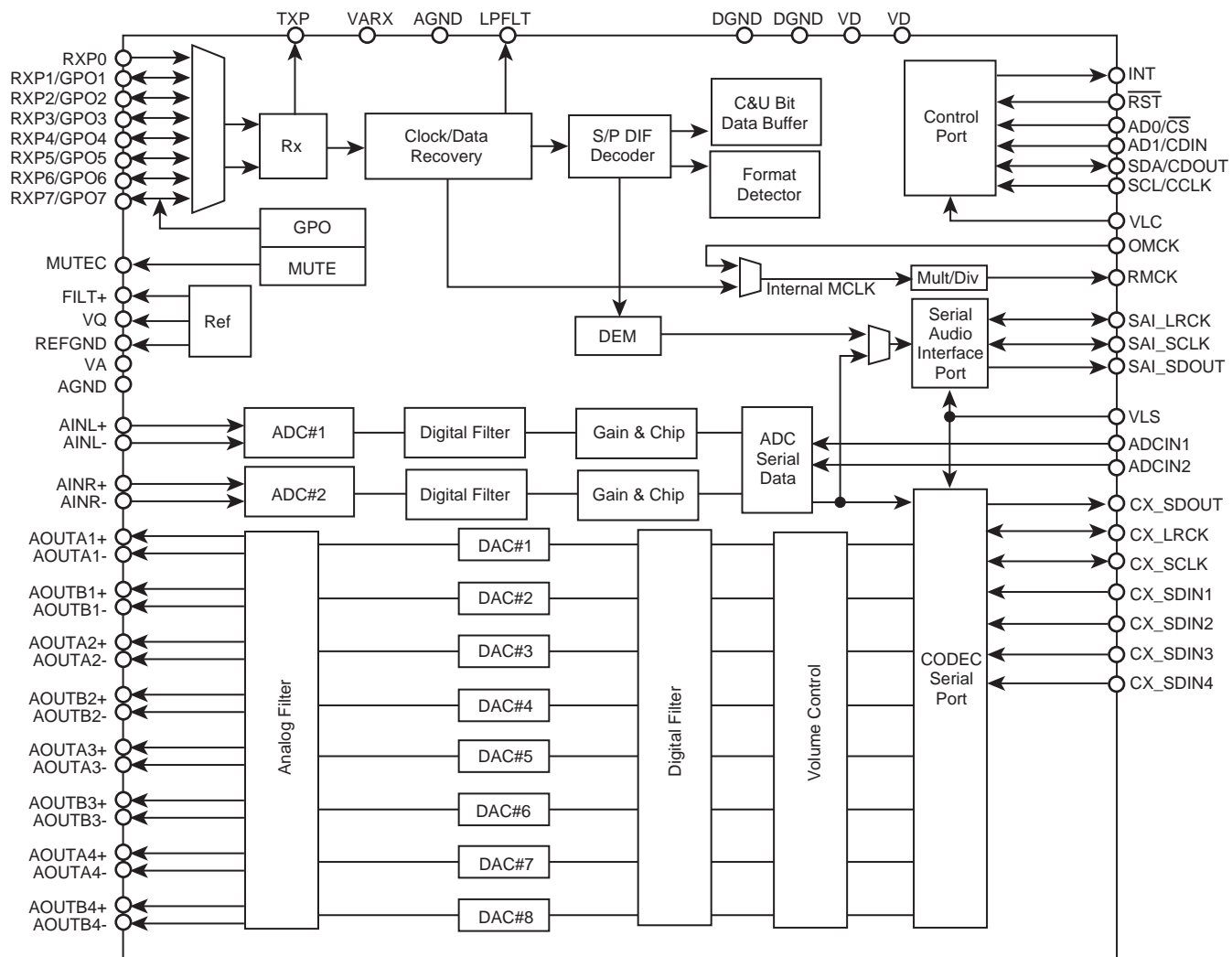
### TERMINAL DESCRIPTION

Pin Name	Description
A0~A18	Address Input
Q0~Q7	Data Input/Output
CE	Chip Enable Input
WE	Write Enable Input
OE	Output Enable Input
GND	Ground Pin
VCC	+3.0V single power supply

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-14

## Q421 : CS42518 (8-Ch Codec with S/PDIF Receiver)-1/4

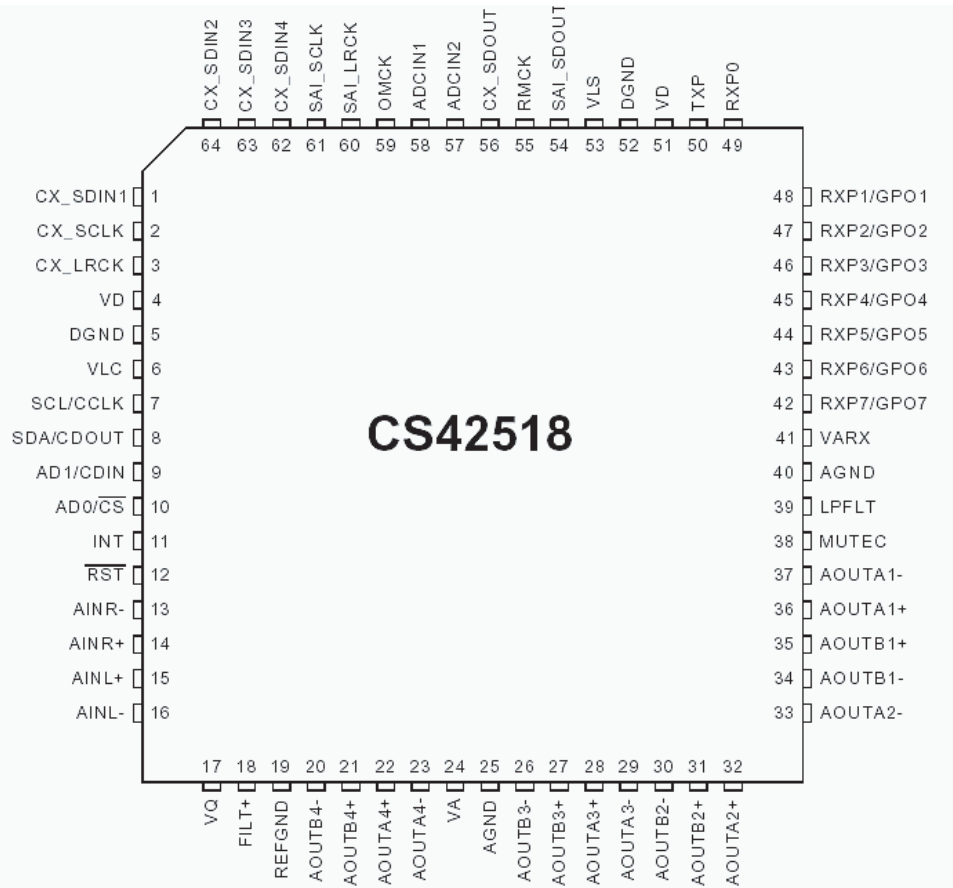
## BLOCK DIAGRAM



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-15

### Q421 : CS42518 (8-Ch Codec with S/PDIF Receiver)-2/4

#### PIN LAYOUT



#### TERMINAL DESCRIPTION

Pin Name	#	Pin Description
CX_SDIN1	1	Codec Serial Audio Data Input ( <i>Input</i> ) - Input for two's complement serial audio data.
CX_SDIN2	64	
CX_SDIN3	63	
CX_SDIN4	62	
CX_SCLK	2	CODEC Serial Clock ( <i>Input/Output</i> ) - Serial clock for the CODEC serial audio interface.
CX_LRCK	3	CODEC Left Right Clock ( <i>Input/Output</i> ) - Determines which channel, Left or Right, is currently active on the CODEC serial audio data line.
VD	4 51	Digital Power ( <i>Input</i> ) - Positive power supply for the digital section.
DGND	5 52	Digital Ground ( <i>Input</i> ) - Ground reference. Should be connected to digital ground.
VLC	6	Control Port Power ( <i>Input</i> ) - Determines the required signal level for the control port.
SCL/CCLK	7	Serial Control Port Clock ( <i>Input</i> ) - Serial clock for the serial control port. Requires an external pull-up resistor to the logic interface voltage in I <sup>2</sup> C mode as shown in the Typical Connection Diagram.
SDA/CDOUT	8	Serial Control Data ( <i>Input/Output</i> ) - SDA is a data I/O line in I <sup>2</sup> C mode and requires an external pull-up resistor to the logic interface voltage, as shown in the Typical Connection Diagram. CDOUT is the output data line for the control port interface in SPI mode.
AD1/CDIN	9	Address Bit 1 (I <sup>2</sup> C)/Serial Control Data (SPI) ( <i>Input</i> ) - AD1 is a chip address pin in I <sup>2</sup> C mode; CDIN is the input data line for the control port interface in SPI mode.

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-16

### Q421 : CS42518 (8-Ch Codec with S/PDIF Receiver)-3/4

#### TERMINAL DESCRIPTION

Pin Name	#	Pin Description
AD0/ $\overline{\text{CS}}$	10	<b>Address Bit 0 (I<sup>2</sup>C)/Control Port Chip Select (SPI) (Input)</b> - AD0 is a chip address pin in I <sup>2</sup> C mode; $\overline{\text{CS}}$ is the chip select signal in SPI mode.
INT	11	<b>Interrupt (Output)</b> - The CS42518 will generate an interrupt condition as per the Interrupt Mask register. See "Interrupts" on page 40 for more details.
RST	12	<b>Reset (Input)</b> - The device enters a low power mode and all internal registers are reset to their default settings when low.
AINR- AINR+	13 14	<b>Differential Right Channel Analog Input (Input)</b> - Signals are presented differentially to the delta-sigma modulators via the AINR+/- pins.
AINL+ AINL-	15 16	<b>Differential Left Channel Analog Input (Input)</b> - Signals are presented differentially to the delta-sigma modulators via the AINL+/- pins.
VQ	17	<b>Quiescent Voltage (Output)</b> - Filter connection for internal quiescent reference voltage.
FILT+	18	<b>Positive Voltage Reference (Output)</b> - Positive reference voltage for the internal sampling circuits.
REFGND	19	<b>Reference Ground (Input)</b> - Ground reference for the internal sampling circuits.
AOUTA1 +,- AOUTB1 +,- AOUTA2 +,- AOUTB2 +,- AOUTA3 +,- AOUTB3 +,- AOUTA4 +,- AOUTB4 +,-	36,37 35,34 32,33 31,30 28,29 27,26 22,23 21,20	<b>Differential Analog Output (Output)</b> - The full-scale differential analog output level is specified in the Analog Characteristics specification table.
VA VARX	24 41	<b>Analog Power (Input)</b> - Positive power supply for the analog section.
AGND	25 40	<b>Analog Ground (Input)</b> - Ground reference. Should be connected to analog ground.
MUTEC	38	<b>Mute Control (Output)</b> - The Mute Control pin outputs high impedance following an initial power-on condition or whenever the PDN bit is set to a '1', forcing the codec into power-down mode. The signal will remain in a high impedance state as long as the part is in power-down mode. The Mute Control pin goes to the selected "active" state during reset, muting, or if the master clock to left/right clock frequency ratio is incorrect. This pin is intended to be used as a control for external mute circuits to prevent the clicks and pops that can occur in any single supply system. The use of external mute circuits are not mandatory but may be desired for designs requiring the absolute minimum in extraneous clicks and pops.
LPFLT	39	<b>PLL Loop Filter (Output)</b> - An RC network should be connected between this pin and ground.
RXP7/GPO7 RXP6/GPO6 RXP5/GPO5 RXP4/GPO4 RXP3/GPO3 RXP2/GPO2 RXP1/GPO1	42 43 44 45 46 47 48	<b>S/PDIF Receiver Input/ General Purpose Output (Input/Output)</b> - Receiver inputs for S/PDIF encoded data. The CS42518 has an internal 8:2 multiplexer to select the active receiver port, according to the Receiver Mode Control 2 register. These pins can also be configured as general purpose output pins, ADC Overflow indicators or Mute Control outputs according to the RXP/General Purpose Pin Control registers.
RXP0	49	<b>S/PDIF Receiver Input (Input)</b> - Dedicated receiver input for S/PDIF encoded data.
TXP	50	<b>S/PDIF Transmitter Output (Output)</b> - S/PDIF encoded data output, mapped directly from one of the receiver inputs as indicated by the Receiver Mode Control 2 register.
VLS	53	<b>Serial Port Interface Power (Input)</b> - Determines the required signal level for the serial port interfaces.
SAI_SDOUT	54	<b>Serial Audio Interface Serial Data Output (Output)</b> - Output for two's complement serial audio PCM data from the S/PDIF incoming stream. This pin can also be configured to transmit the output of the internal and external ADCs.
RMCK	55	<b>Recovered Master Clock (Output)</b> - Recovered master clock output from the External Clock Reference (OMCK, pin 59) or the PLL which is locked to the incoming S/PDIF stream or CX_LRCK.

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-17

### Q421 : CS42518 (8-Ch Codec with S/PDIF Receiver)-4/4

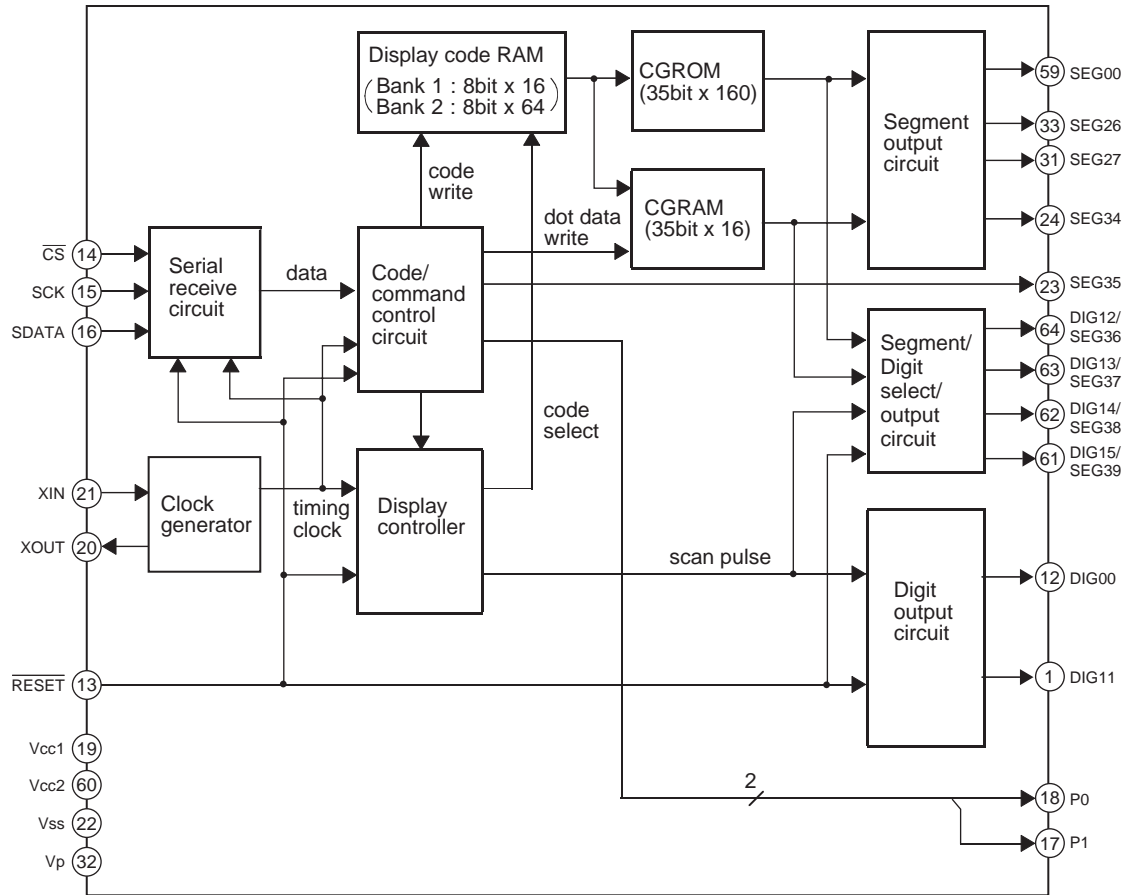
#### TERMINAL DESCRIPTION

Pin Name	#	Pin Description
CX_SDOUT	56	<b>CODEC Serial Data Output</b> ( <i>Output</i> ) - Output for two's complement serial audio data from the internal and external ADCs.
ADCIN1	58	<b>External ADC Serial Input</b> ( <i>Input</i> ) - The CS42518 provides for up to two external stereo analog to digital converter inputs to provide a maximum of six channels on one serial data output line when the CS42518 is placed in One Line mode.
ADCIN2	57	
OMCK	59	<b>External Reference Clock</b> ( <i>Input</i> ) - External clock reference that must be within the ranges specified in the register "OMCK Frequency (OMCK Freqx)" on page 54.
SAI_LRCK	60	<b>Serial Audio Interface Left/Right Clock</b> ( <i>Input/Output</i> ) - Determines which channel, Left or Right, is currently active on the serial audio data line.
SAI_SCLK	61	<b>Serial Audio Interface Serial Clock</b> ( <i>Input/Output</i> ) - Serial clock for the Serial Audio Interface.

# IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS-18

## Q802: M66005FP (FL tube driver)

### BLOCK DIAGRAM



### TERMINAL DESCRIPTION

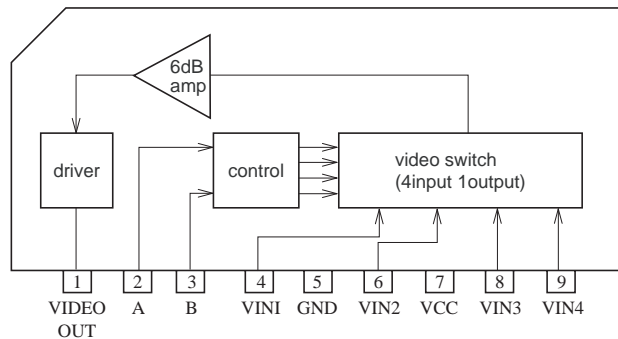
PIN NO.	SYMBOL	PIN NAME	DESCRIPTION
13	$\overline{\text{RESET}}$	Reset input	This pin is used to initialize the internal state of the M66004.
14	$\overline{\text{CS}}$	Chip select input	"L" : Communication with the MCU is possible. "H" : Any instruction from the MCU is neglected.
15	SCK	Shift clock input	At the rising edge from "L" to "H", input data is shifted.
16	SDATA	Serial data input	Character code or command data to display is input from MSB.
21, 20	XIN, XOUT	Clock input Clock output	This pin is used to connect a resistor and a capacitor externally to set oscillation frequency.
1~12 61~64	DIG00 ~ DIG15	Digit output	These pins are used to connect to digit pins of VFD.
23~31 33~59	SEG00 ~ SEG39	Segment output	These pins are used to connect to segment pins of VFD.
17, 18	P0, P1		Output port (static operation)
19	VCC1		Positive power supply for internal logic.
60	VCC2		Positive power supply for high-pressure-resistant output port.
22	VSS		GND
32	VP		Negative power supply for VFD drive.



## IC BLOCK DIAGRAM AND TERMINAL DESCRIPTIONS-19

Q1003 : LA7956 (Video switch)

### BLOCK DIAGRAM



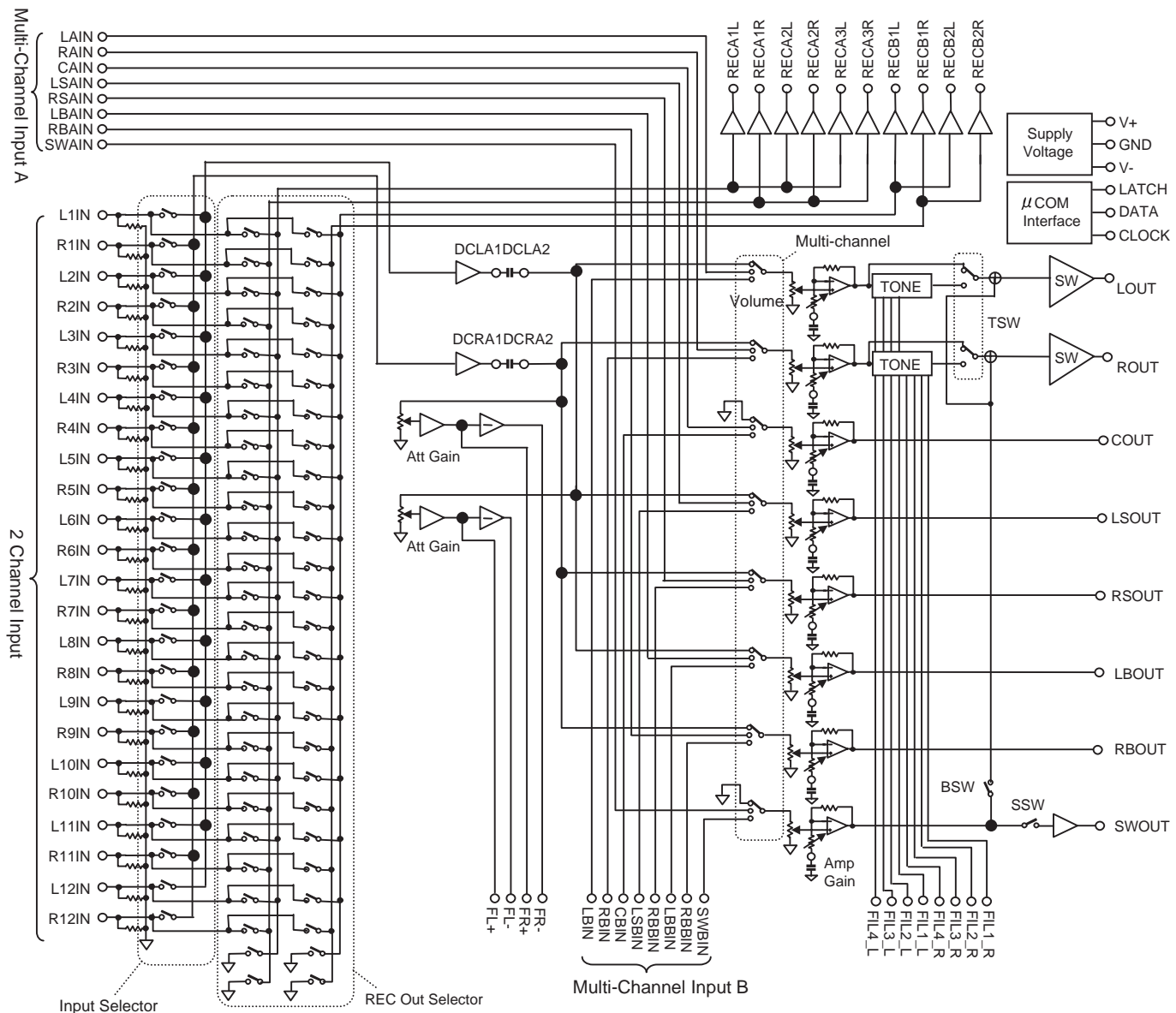
### TRUTH TABLE

S2 (Pin 2)	S3 (Pin 3)	Vin1 (Pin 4)	Vin2 (Pin 6)	Vin3 (Pin 8)	Vin4 (Pin 9)
H	H	ON	OFF	OFF	OFF
L	H	OFF	ON	OFF	OFF
H	L	OFF	OFF	ON	OFF
L	L	OFF	OFF	OFF	ON

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-20

## Q5501: NJW1157(8-CHANNEL ELECTRONIC VOLUME WITH INPUT SELECTOR)-1/2

### BLOCK DIAGRAM



## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-21

### Q5501: NJW1157(8-CHANNEL ELECTRONIC VOLUME WITH INPUT SELECTOR)-2/2

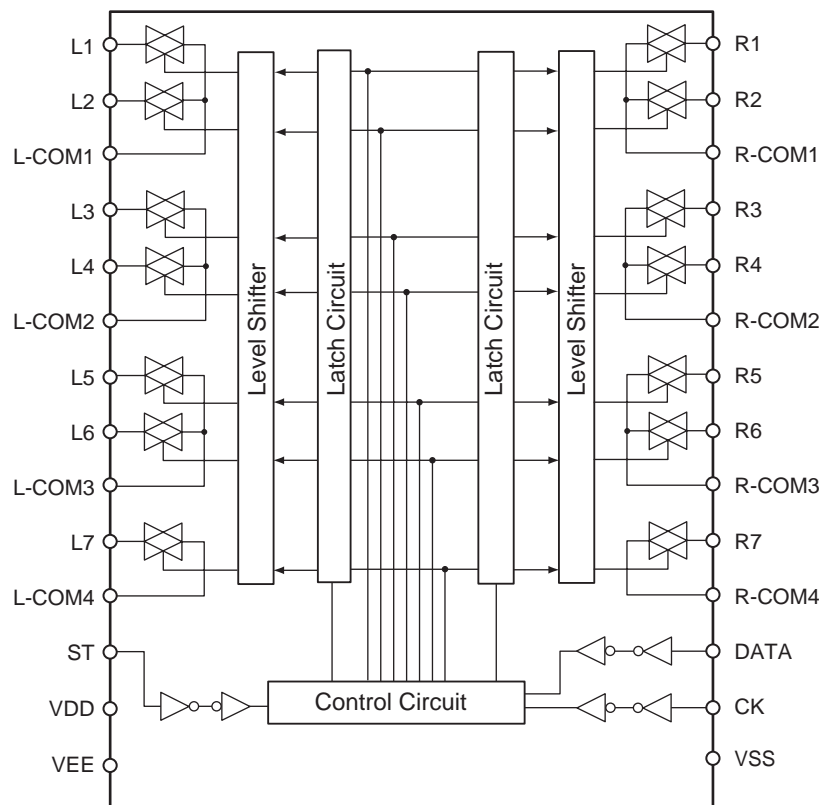
#### TERMINAL DESCRIPTION

No.	SYMBOL	FUNCTION	No.	SYMBOL	FUNCTION
1	LOUT	Lch output	51	L1IN	"Input selector" Lch input 1
2	ROUT	Rch output	52	R1IN	"Input selector" Rch input 1
3	COUT	Cch output	53	L2IN	"Input selector" Lch input 2
4	LSOUT	LSch output	54	R2IN	"Input selector" Rch input 2
5	RSOUT	RSch output	55	L3IN	"Input selector" Lch input 3
6	LBOUT	LBch output	56	R3IN	"Input selector" Rch input 3
7	RBOUT	RBch output	57	L4IN	"Input selector" Lch input 4
8	SWOUT	SWch output	58	R4IN	"Input selector" Rch input 4
9	DC_L1	Lch Bass filter DC cut capacitor output terminal	59	L5IN	"Input selector" Lch input 5
10	DC_L2	Lch Bass filter DC cut capacitor input terminal	60	R5IN	"Input selector" Rch input 5
11	FIL_BL	Lch Bass filter terminal	61	L6IN	"Input selector" Lch input 6
12	FIL_TL	Lch Treble filter terminal	62	R6IN	"Input selector" Rch input 6
13	DC_R1	Rch Bass filter DC cut capacitor output terminal	63	L7IN	"Input selector" Lch input 7
14	DC_R2	Rch Bass filter DC cut capacitor input terminal	64	R7IN	"Input selector" Rch input 7
15	FIL_BR	Rch Bass filter terminal	65	L8IN	"Input selector" Lch input 8
16	FIL_TR	Rch Treble filter terminal	66	R8IN	"Input selector" Rch input 8
17	N.C.	No Connect	67	L9IN	"Input selector" Lch input 9
18	N.C.	No Connect	68	R9IN	"Input selector" Rch input 9
19	V+	+ Power supply voltage input	69	L10IN	"Input selector" Lch input 10
20	V-	- Power supply voltage input	70	R10IN	"Input selector" Rch input 10
21	REC_A1L	"Input selector" Lch REC output A1	71	L11IN	"Input selector" Lch input 11
22	REC_A1R	"Input selector" Rch REC output A1	72	R11IN	"Input selector" Rch input 11
23	REC_A2L	"Input selector" Lch REC output A2	73	L12IN	"Input selector" Lch input 12
24	REC_A2R	"Input selector" Rch REC output A2	74	R12IN	"Input selector" Rch input 12
25	REC_A3L	"Input selector" Lch REC output A3	75	N.C.	No Connect
26	REC_A3R	"Input selector" Rch REC output A3	76	DGND	Digital Ground
27	REC_B1L	"Input selector" Lch REC output B1	77	DATA	Control data signal input
28	REC_B1R	"Input selector" Rch REC output B1	78	CLOCK	Clock signal input
29	REC_B2L	"Input selector" Lch REC output B2	79	LATCH	Latch signal input
30	REC_B2R	"Input selector" Rch REC output B2	80	LAIN	Multi-channel Lch input A
31	DCCAP_L	Switching noise rejection capacitor	81	RAIN	Multi-channel Rch input A
32	DCCAP_R	Switching noise rejection capacitor	82	CAIN	Multi-channel Cch input A
33	DCCAP_C	Switching noise rejection capacitor	83	LSAIN	Multi-channel LSch input A
34	GND	Ground	84	RSAIN	Multi-channel RSch input A
35	GND	Ground	85	LBAIN	Multi-channel LBch input A
36	DCCAP_LS	Switching noise rejection capacitor	86	RBAIN	Multi-channel RBch input A
37	DCCAP_RS	Switching noise rejection capacitor	87	SWAIN	Multi-channel SWch input A
38	DCCAP_LB	Switching noise rejection capacitor	88	LBIN	Multi-channel Lch input B
39	DCCAP_RB	Switching noise rejection capacitor	89	RBIN	Multi-channel Rch input B
40	DCCAP_SW	Switching noise rejection capacitor	90	CBIN	Multi-channel Cch input B
41	DCL_OUT	"Input selector" Lch output	91	LSBIN	Multi-channel LSch input B
42	DCL_IN	"Multi-channel selector" Lch input	92	RSBIN	Multi-channel RSch input B
43	DCR_OUT	"Input selector" Rch output	93	LBBIN	Multi-channel LBch input B
44	DCR_IN	"Multi-channel selector" Rch input	94	RBBIN	Multi-channel RBch input B
45	FL+	"Input selector gain control" Lch no-inverted output	95	SWBIN	Multi-channel SWch input B
46	FL-	"Input selector gain control" Lch inverted output	96	GND	Ground
47	FR+	"Input selector gain control" Rch no-inverted output	97	GND	Ground
48	FR-	"Input selector gain control" Rch inverted output	98	VSSOUT2	Internal Digital -Power Supply Output 2
49	VDDOUT	Internal Digital +Power Supply Output	99	VDDOUT2	Internal Digital +Power Supply Output 2
50	VSSOUT	Internal Digital -Power Supply Output	100	TCCAP	Switching noise rejection capacitor

# IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-23

## Q5502: NJU7311AM (Analog Function Switch)

### BLOCK DIAGRAM



### TERMINAL DESCRIPTION

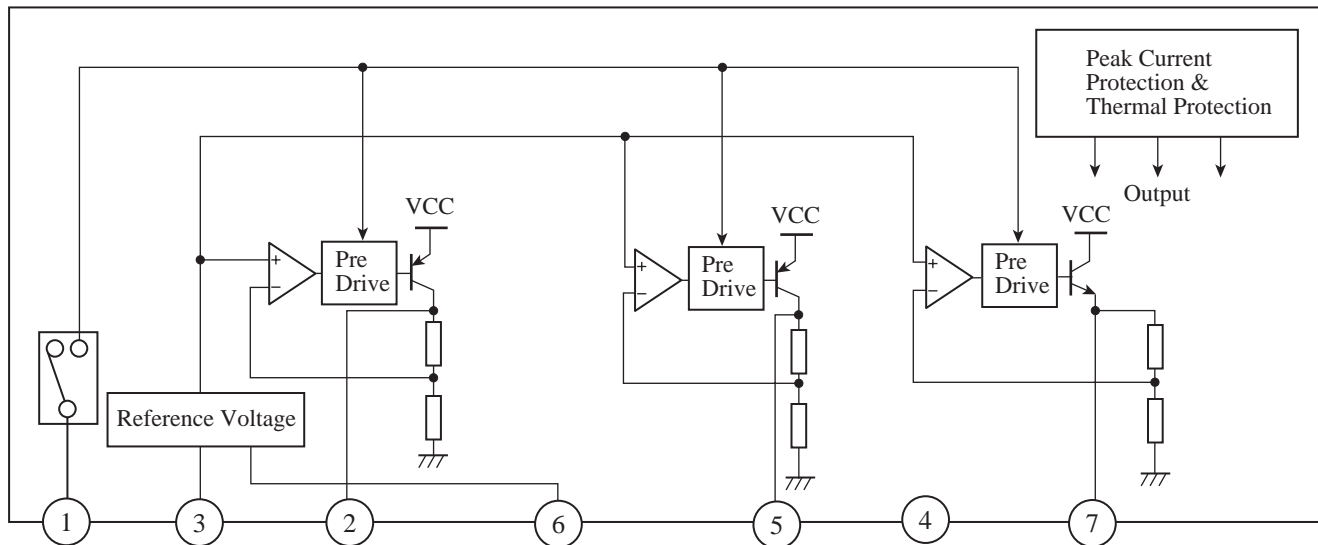
Pin No.	Pin Name	Description
1	VEE	Negative Voltage Supply
2	L1	Analog switch input/output
3	L2	Analog switch input/output
4	L-COM1	L1, L2, Common
5	L3	Analog switch input/output
6	L4	Analog switch input/output
7	L-COM2	L3, L4 common
8	L5	Analog switch input/output
9	L6	Analog switch input/output
10	L-COM3	L5, L6 Common
11	L7	Analog switch input/output
12	L-COM4	L7 Common
13	ST	Chip enable
14	VSS	GND

Pin No.	Pin Name	Description
15	CK	Clock input
16	DATA	Data input
17	R-COM4	R7 Common
18	R7	Analog switch input/output
19	R-COM3	R5, R6 Common
20	R6	Analog switch input/output
21	R5	Analog switch input/output
22	R-COM2	R3, R4 Common
23	R4	Analog switch input/output
24	R3	Analog switch input/output
25	R-COM1	R1, R2, Common
26	R2	Analog switch input/output
27	R1	Analog switch input/output
28	VDD	Positive voltage supply

## IC BLOCK DIAGRAMS AND TERMINAL DESCRIPTIONS-23

### Q5640: AN34060A (3 Output Voltage Regulator)

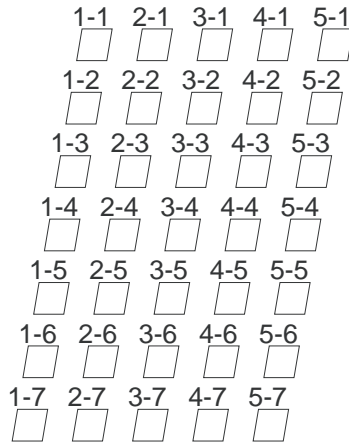
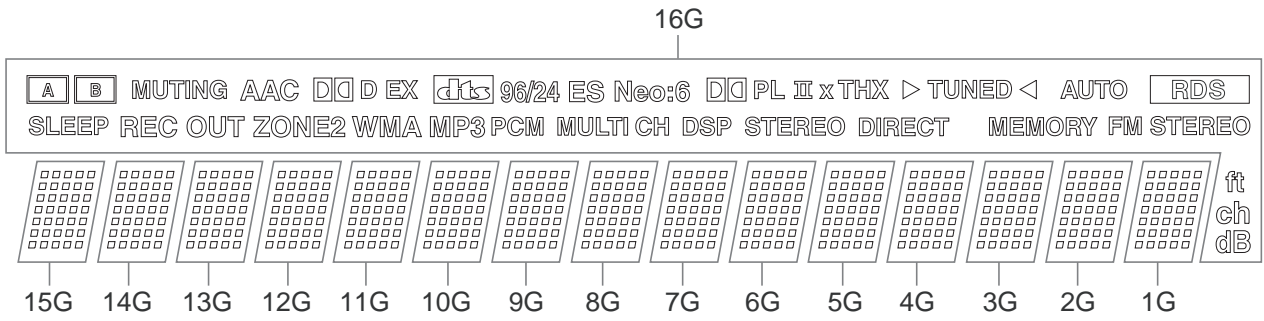
#### BLOCK DIAGRAM



#### TERMINAL DESCRIPTION

Pin No.	Description	Function
1	MODE 1	WHEN MODE 1 pin is 5V, REG 1 output is "H".
2	REG 1	WHEN MODE 1 pin is "H", REG 1 output is 5.0V ( $I_{o1(peak)} = 300\text{mA min.}$ ).
3	VCC	Connected to Power supply
4	GND	Connected to IC substrate
5	REG 2	WHEN MODE 1 pin is "H", REG 2 output is 3.3V ( $I_{o2(peak)} = 200\text{mA min.}$ ).
6	VCC	Connected to Power supply
7	REG 3	WHEN MODE 1 pin is "H", REG 3 output is 2.5V ( $I_{o3(peak)} = 600\text{mA min.}$ ).

**FL TUBE VIEW**  
**Q801: 16BT127GNK**



(1G-15G)

	16G	15G-1G
P1	A	1-1
P2	B	2-1
P3	SLEEP	3-1
P4	MUTING	4-1
P5	REC OUT	5-1
P6	ZONE2	1-2
P7	D	2-2
P8	D	3-2
P9	dt	4-2
P10	ES	5-2
P11	AAC	1-3
P12	MP3	2-3
P13	PCM	3-3
P14	Neo:6	4-3
P15	D, PL	5-3
P16	II	1-4
P17	MULTI CH	2-4
P18	DSP	3-4

	16G	15G-1G
P19	STEREO	4-4
P20	DIRECT	5-4
P21	-	1-5
P22	> TUNED <	2-5
P23	TUNED	3-5
P24	MEMORY	4-5
P25	AUTO	5-5
P26	FM STEREO	1-6
P27	RDS	2-6
P28	ft	3-6
P29	ch	4-6
P30	dB	5-6
P31	THX	1-7
P32	EX	2-7
P33	96/24	3-7
P34	X	4-7
P35	WMA	5-7

## MICROPROCESSOR TERMINAL DESCRIPTIONS-1

### Q701: M30622MGP-236FPU0

Pin No.	Pin name	I/O	Act.	Description
1	FLDSDO	O	H	Output serial data for control of FL driver IC.
2	FLDCLK	O	CLK	Output serial clock for control of FL driver IC.
3	FLDCS	O	H	Output chip select for FL driver IC.
4	~FLDRST	O	L	Output reset signal for FL driver IC.
5	FSWSDO	O	H	Output serial data for control of function switch (NJU7311).
6	FSWSTB	O	H	Output strobe for control of function switch (NJU7311).
7	FSWCLK	O	H	Output serial clock for control of function switch (NJU7311).
8	BYTE	---	---	Select of external bus width. Connect to ground.
9	CNVSS	---	---	Select of processor mode.
10	COMPA	O	L	Not used.
11	COMPB	O	L	Not used.
12	~RESET	I	L	Input signal for system reset.
13	XOUT	---	---	Connected to oscillator.
14	VSS	---	---	Ground.
15	XIN	---	---	Connected to oscillator.
16	VCC1	---	---	Power supply.
17	~NMI	I	L	Not used.
18	---	I	L	Not used.
19	~REMIN	I	L	Input signal from remote sensor.
20	POFF	I	H	Input signal of power failure detection.
21	DIRINT1	I	H	Not used.
22	DIRINT0	I	H	Input signal of interrupt request detection of DSP C.
23	~DIRCS	O	L	Output signal for chip select of DIR/CODEC.
24	~DIRRST	O	L	Output signal for reset of DIR/CODEC.
25	~DSPFCS	O	L	Output signal for chip select of DSP A/B.
26	~DSPCS	O	L	Output signal for chip select of DSP C.
27	VMUTMON	O	L	Output control signal for video mute of monitor out.
28	VMUTV1	O	L	Output control signal for video mute of video-1.
29	VCTRLA	O	H	Output control signal of video switch IC.
30	VCTRLB	O	H	Output control signal of video switch IC.
31	FTXD	O	H	For writing of flash microprocessor.
32	FRXD	I	H	For writing of flash microprocessor.
33	FCLK	O	CLK	For writing of flash microprocessor.
34	FBUSY	O	H	Output reset signal for DSPIC.
35	DIGSDO	O	H	Output signal for serial communications with DIR/ CODEC/DSP IC.
36	DIGSDI	I	H	Input signal for serial communications with DIR/ CODEC/DSP IC.
37	DIGCLK	O	CLK	Output clock for serial communications with DIR/ CODEC/DSP IC.
38	DSPBUSY	I	H	Input signal of detect busy signal of DSP C.
39	~DSPINT	I	L	Input signal of detect interrupt request signal of DSP C.
40	~DSPFINT	I	L	Input signal of detect interrupt request signal of DSP AB.
41	~FEPM	O	H	For writing of flash microprocessor.
42	~DSPRST	O	L	Output reset signal for DSP IC.
43	VOLSTB	O	H	Output strobe for control of volume IC.
44	VOLCLK	O	CLK	Output serial clock for control of volume IC.
45	VOLDAT	O	H	Output serial data for control of volume IC.
46	~FCE	I	H	For writing of flash microprocessor.
47	---	O	H	Not used.
48	---	O	H	Not used.
49	AMUT	O	H	Output signal of audio mute.
50	SPRLB	O	H	Output control signal for relay drive of speakers-B.

## MICROPROCESSOR TERMINAL DESCRIPTIONS-2

## Q701: M30622MGP-236FPU0

Pin No.	Pin name	I/O	Act.	Description
51	SPRLSB	O	H	Output control signal for relay drive of surround back speakers.
52	SPRLCS	O	H	Output control signal for relay drive of center and surround speakers.
53	SPRLF/SPRLSW	O	H	Output control signal for relay drive of front speakers.
54	TUMUT	O	H	Output signal of tuner mute.
55	PLLCE	O	H	Output chip enable for PLL IC of tuner.
56	PLLSDO	O	H	Output serial data for PLL IC of tuner.
57	PLLCLK	O	CLK	Output serial clock for PLL IC of tuner.
58	~STEREO/PLLSDI	I	L	Input detection of stereo signal, and serial data of PLL IC.
59	~SD	I	L	Input detection signal of demodulation of tuner.
60	VPOWER	O	H	Output control signal of power supply of the video circuit.
61	APOWER	O	H	Output control signal of main power supply.
62	VCC2	---	---	Power supply.
63	SEC1H	O	H	Output control signal for power supply of amplifier section.
64	VSS	---	---	Ground.
65	VOLH	I	A/D	Input detection signal of speaker output level.
66	THERMAL	I	A/D	Input detection signal of thermal detection.
67	PROTECT	I	H	Input detection signal of over current of speaker output.
68	FANCTRL	O	L	Output control signal of cooling fan. Function control.
69	FANH	O	L	Output control signal of cooling fan. Speed control.
70	NU	---	---	Not used.
71	RDSDAT	I	H	Input serial data of RDS. MPP(European model) only.
72	RDSSIG	I	H	Input detection signal of demodulation of RDS. MPP(European model) only.
73	SYSIN	I	H	Input signal of RI (system control).
74	NU	---	---	Not used.
75	~RDSCLK	I	L	Input serial clock of RDS. MPP(European model) only.
76	~SYSOUT	O	L	Output signal of RI (system control).
77	LEDPURE	O	H	Not used.
78	NU	---	---	Not used.
79	~LEDSTBY	O	L	Output control signal of Standby LED.
80	HPRL	O	H	Output control signal for relay drive of headphone.
81	HPDET	I	H	Input detection signal of headphone state.
82	NU	---	---	Not used.
83	VOLB	I	H	Input signal of rotary encoder.
84	VOLA	I	H	Input signal of rotary encoder.
85	INIT3	I	A/D	For initial setting-3.
86	INIT2	I	A/D	For initial setting-2.
87	INIT1	I	A/D	For initial setting-1.
88	BAND	I	A/D	For initial setting of tuner band and step.
89	~KEYINT3	I	L	Input signal of operation keys.
90	~KEYINT2	I	L	Input signal of operation keys.
91	~KEYINT1	I	L	Input signal of operation keys.
92	~KEYINT0	I	L	Input signal of operation keys.
93	KEY3	I	A/D	Input signal of operation keys.
94	KEY2	I	A/D	Input signal of operation keys.
95	KEY1	I	A/D	Input signal of operation keys.
96	AVSS	---	---	Ground for A/D.
97	KEY0	I	A/D	Input signal of operation keys.
98	VREF	---	---	Power supply for reference of A/D.
99	AVCC	---	---	Power supply.
100	NU	---	---	Not used.



## ADJUSTMENT PROCEDURE-1

### IDLING CURRENT ADJUSTMENT

#### [When]

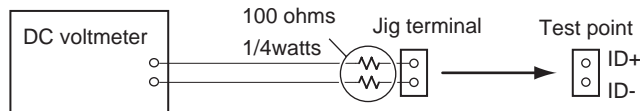
Exchange Power transistors (Q6051 - Q6064) and Power amplifier PC board (NAAF-8523).

#### [Procedure]

<Note> No load and No signal

Refer to <Fig->1 in "ADJUSTMENT PROCEDURES-2" about the adjustment points and the measuring points.

1. Before Idling adjustment, turn the trimming resistors to counter clockwise.
2. Connect the DC voltmeter to test points.  
Connect 100-ohm resistance near the terminal of the two poles of a Jig terminal.



3. Connect the AC power cord to wall outlet.
4. Press the STANDBY/ON button into the power on.
5. Adjust the trimming resistors as following procedure immediately after power on.

Channel	Mark	Adjustment point (Trimming resistor)	Measuring point (Test point)	Adjustment value
Left	<input type="checkbox"/> L	R6040	P6080	2.5 mV
Right	<input type="checkbox"/> R	R6041	P6081	2.5 mV
Center	<input type="checkbox"/> C	R6042	P6082	2.5 mV
Surround Left	<input type="checkbox"/> SL	R6043	P6083	1.5 mV
Surround Right	<input type="checkbox"/> SR	R6044	P6084	1.5 mV

6. Wait for 4 - 6 minutes. (Heat running)
7. Re-adjust the trimming resistors as following procedure.

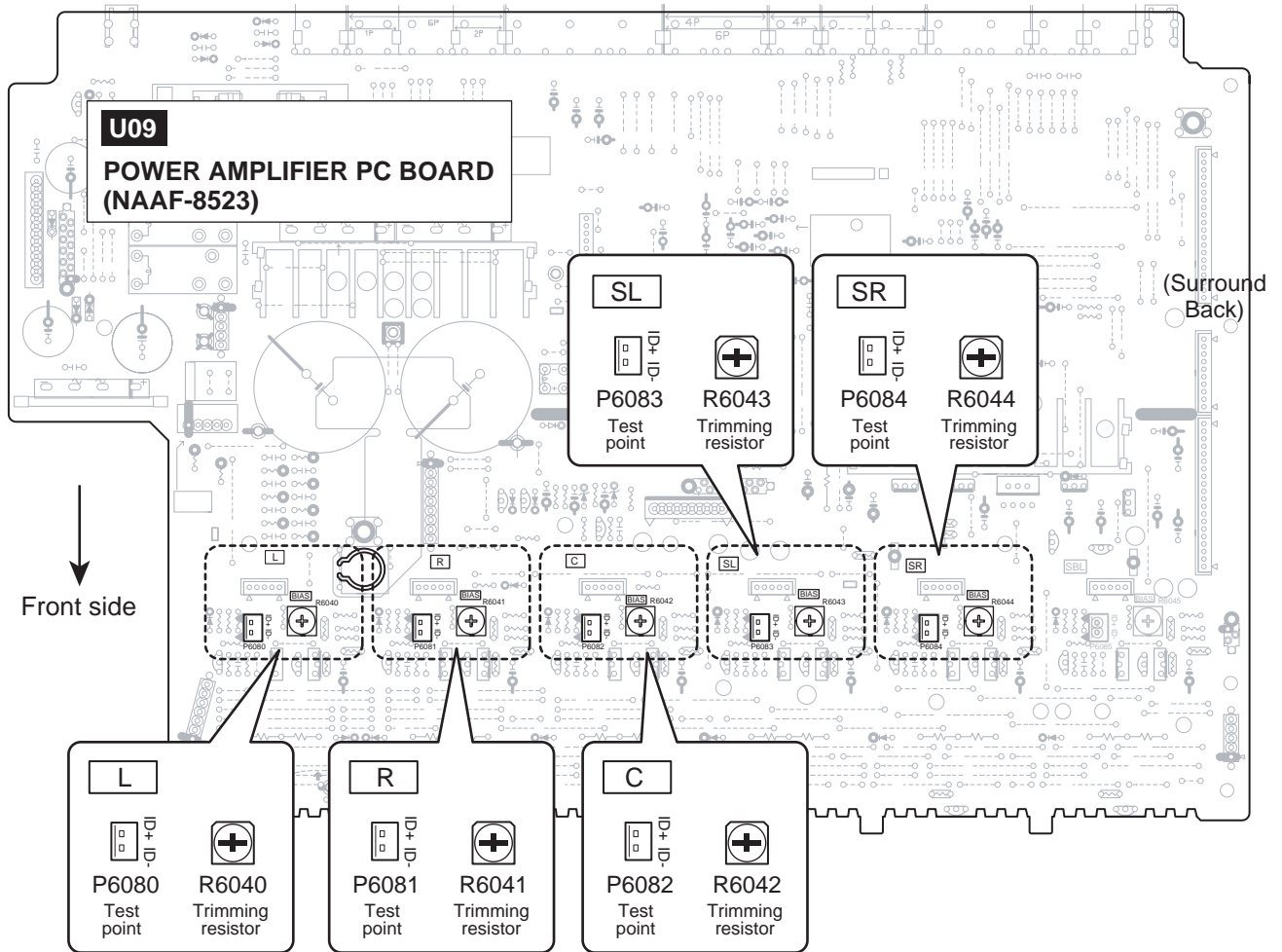
Channel	Adjustment point	Measured value	Adjustment value	Specifications (* In a stable state)
Left, Right and Center	R6040, R6041 and R6042	In case below 9 mV →	9 mV	12 +/- 3 mV
		In case 9 - 11 mV →	Leave it as it is	
		In case over 11 mV →	11 mV	
Surround Left and Surround Right	R6043 and R6044	In case below 6 mV →	6 mV	9 +/- 3 mV
		In case 6 - 8 mV →	Leave it as it is	
		In case over 8 mV →	8 mV	

8. Disconnect the DC voltmeter.
9. Press the STANDBY/ON button into the power off.
10. Disconnect the AC power cord.

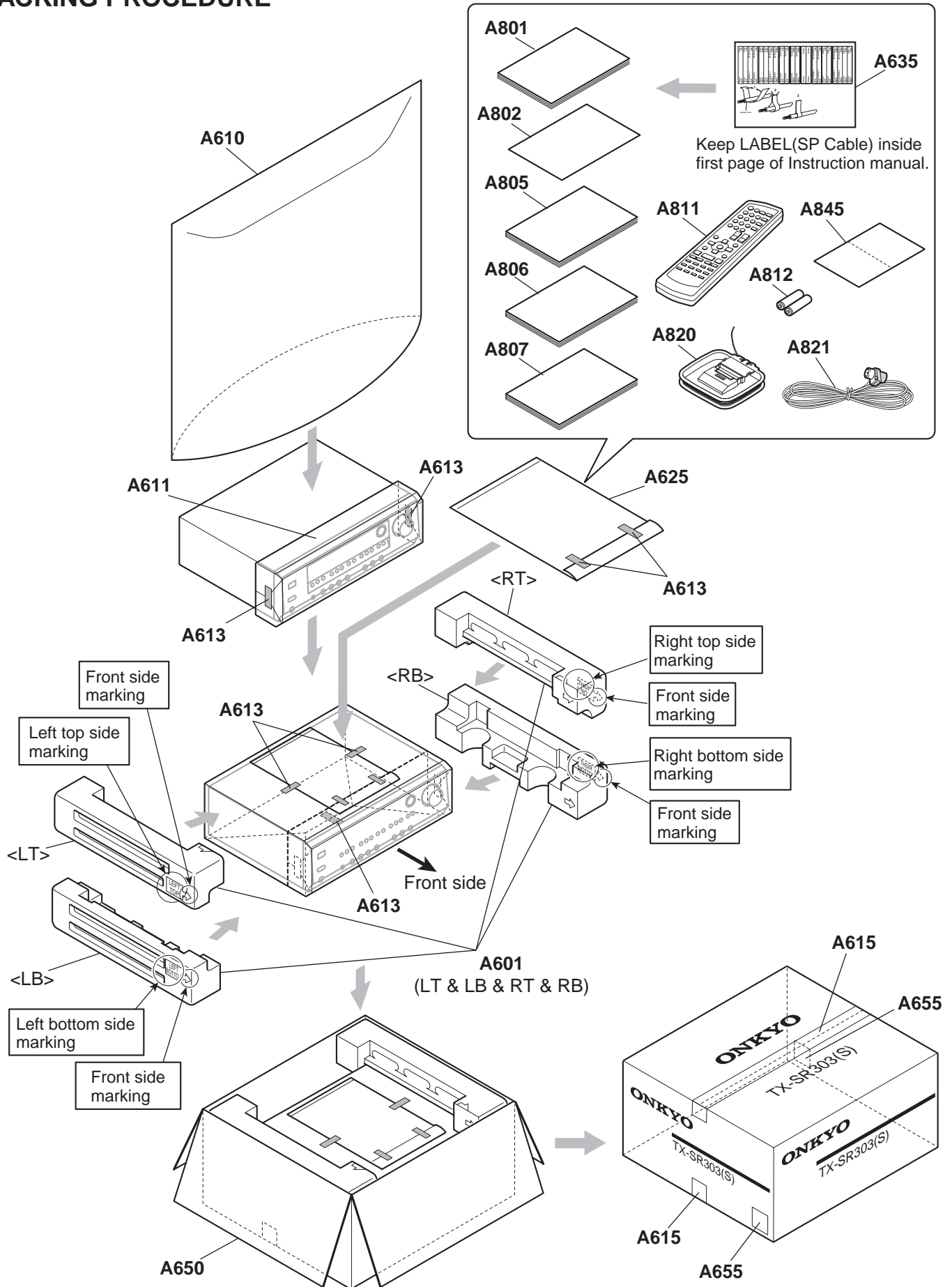
\* Idling current are stabilized in about 10 minutes after a power supply on.

# ADJUSTMENT PROCEDURE-2 IDLING CURRENT ADJUSTMENT

<Fig-1>



**PACKING PROCEDURE**



**TX-SR303/303E**

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

**<Notes>**

&lt;303&gt; : TX-SR303 Only

&lt;303E&gt; : TX-SR303E(European model) Only

**EXPLODED VIEW PARTS LIST**

	REF. NO.	NAME	DESCRIPTION	Q'TY	PART NO	REMARKS
EXP	A001	RETAINER	(F)	1	27141972	
EXP	A002	SCREW	3TTB+10B(BC)	13	838430108	
EXP	A003	SCREW	3TTB+8B(BC)	36	838430088	
EXP	A004	SCREW	3TTB+8B(CU)SR	20	801618	
EXP	A010	CHASSIS	---	(1)	27100460A	
EXP	A011	TAPE	TAPE(CLOTH-16U)	(1)	29110083	
EXP	A013	WIRE TIE	BSK-1	6	260208	
EXP	A014	CLIP	CS-1U	2	27255004	
EXP	A015	HOLDER	KGLS-14RT	3	27190524	
EXP	A016	HOLDER	HOLDER	2	27190991	
EXP	A023	SCREW	4TTC+8C(BC)	4	830440089	
EXP	A025	TAPE	TAPE(CLOTH-16U)	(1)	29110083	
EXP	A028	BUSHING	S-RELIEF #2271	1	27300750	!
EXP	A030	HEAT SINK	AS	1	27160563B	
EXP	A037	SCREW	3SMS8W.SW+14B(BC)	10	801433	
EXP	A040	BRACKET	(U)	1	27130986	
EXP	A045	SHLD PLT	(R)	1	27150504	
EXP	A045	SHLD PLT	(R)	1	27150504	
EXP	A046	PLA RIVET	P3035B	1	880016	
EXP	A046	PLA RIVET	P3035B	1	880016	
EXP	A048	CUSHION	t3x50x10	2	28141563	
EXP	A050	COVER	---	1	28184926	
EXP	A051	SCREW	3TTB+8B(UN)	6	838930088	
EXP	A052	LABEL	(COVER)	1	29364123	
EXP	A055	LEG	LEG	4	27175319B	
EXP	A056	CUSHION	---	8	28141494	
EXP	A065	CLEAR PLT	---	1	28192065A	
EXP	A401	REAR PANEL	TX-SR303MDD	1	27123404A	<303>
EXP	A401	REAR PANEL	TXSR303MPP	1	27123454	<303E>
EXP	A405	F PANEL	---	1	27212769A	<303>
EXP	A405	F PANEL	---	1	27212789	<303E>
EXP	A406	FACET	(ST)	1	28198998A	
EXP	A411	KNOB	(POW)	1	28326299	
EXP	A412	KNOB	(SEL)	1	28326303	
EXP	A413	KNOB	(PRE)	1	28326306	
EXP	A420	BADGE	---	1	28135298	
EXP	A425	RETAINER	(BRO)	1	27141873	<303E>
EXP	A430	KNOB	(VOL)AS	1	28326319	
EXP	A450	LABEL	HOOKUP-ONKYO	1	29363194	<303>
EXP	F901	FUSE	6.3A-UL/T-237	1	252166	!, <303>
EXP	F901 or	FUSE	6.3A-T/UL-ST2	(1)	252260	!, <303>
EXP	F902	FUSE	3.15A-SE-EAK FUSE	1	252076	!, <303E>
EXP	F902 or	FUSE	3.15A-SE-TL250V	(1)	252242	!, <303E>
EXP	F902 or	FUSE	3.15A-SE-TL250V	(1)	252276	!, <303E>
EXP	F6901	FUSE	8A-UL	1	252198	!, <303>
EXP	F6901 or	FUSE	8A-T/UL-ST2	(1)	252261	!, <303>
EXP	F6901	FUSE	8A-UL	1	252198	!, <303E>
EXP	F6901 or	FUSE	8A-T/UL-ST2	(1)	252261	!, <303E>
EXP	F6902	FUSE	8A-UL	1	252198	!
EXP	F6902 or	FUSE	8A-T/UL-ST2	(1)	252261	!
EXP	P101	FFC	NCFC7-150512	1	2047150512	
EXP	P703	FFC	NCFC5-232022	1	2045232022	

EXP	P901	AC CORD	AS-UC-2	1	253368LTK	!, <303>
EXP	P901 or	AC CORD	AS-UC-2	(1)	253333VOL	!, <303>
EXP	P901 or	AC CORD	AS-UC-2	(1)	253332HIT	!, <303>
EXP	P901	AC CORD	AS-CEE-2	1	253233KAW	!, <303E>
EXP	P901 or	AC CORD	AS-CEE-2	(1)	253306VOL	!, <303E>
EXP	P901 or	AC CORD	AS-CEE-2	(1)	253374LTK	!, <303E>
EXP	Q6050	TR	2SC5198-O	1	2203063	<303>
EXP	Q6050 or	TR	2SC5198-R	(1)	2203062	<303>
EXP	Q6050 or	TR	MN100S-O	(1)	2203653	<303>
EXP	Q6050 or	TR	MN100S-P	(1)	2203656	<303>
EXP	Q6050	TR	2SC5198-O	1	2203063	<303E>
EXP	Q6050 or	TR	2SC5198-R	(1)	2203062	<303E>
EXP	Q6050 or	TR	MN100S-O	(1)	2203653	<303E>
EXP	Q6050 or	TR	MN100S-P	(1)	2203656	<303E>
EXP	Q6050 or	TR	MN100S-Y	(1)	2203654	<303E>
EXP	Q6050A	ISO SHEET	AC238	10	223024	
EXP	Q6051	TR	2SC5198-O	1	2203063	<303>
EXP	Q6051 or	TR	2SC5198-R	(1)	2203062	<303>
EXP	Q6051 or	TR	MN100S-O	(1)	2203653	<303>
EXP	Q6051 or	TR	MN100S-P	(1)	2203656	<303>
EXP	Q6051 or	TR	MN100S-Y	(1)	2203654	<303>
EXP	Q6051	TR	2SC5198-O	1	2203063	<303E>
EXP	Q6051 or	TR	2SC5198-R	(1)	2203062	<303E>
EXP	Q6051 or	TR	MN100S-O	(1)	2203653	<303E>
EXP	Q6051 or	TR	MN100S-P	(1)	2203656	<303E>
EXP	Q6051 or	TR	MN100S-Y	(1)	2203654	<303E>
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EXP	U01	DISPLAY PC board ass'y	NADIS-8513-1X	1	1B068513-1X	!,<303E>
EXP	U02	DSP PC board ass'y	NADG-8514-1A	1	1B068514-1A	!,<303>
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EXP	U03	SWITCH PC board ass'y	NASW-8515-1A	1	1B068515-1A	!,<303>
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EXP	U04	HEADPHONE JACK PC board ass'y	NAETC-8516-1A	1	1B068516-1A	!,<303>
EXP	U04	HEADPHONE JACK PC board ass'y	NAETC-8516-1X	1	1B068516-1X	!,<303E>
EXP	U05	AMPLIFIER PC board ass'y	NAAF-8523-1A	1	1B068523-1A	
EXP	U06	SEC. TERMINAL-2 PC board ass'y	NAPS-8524-1A	1	1B068524-1A	
EXP	U08	THERMAL SENSOR PC board ass'y	NAETC-8526-1A	1	1B068526-1A	
EXP	U09	HOLDER PC board ass'y	NAETC-8527-1A	1	1B068527-1A	
EXP	U11	POWER SUPPLY-1 PC board ass'y	NAPS-8544-1A	1	1B068544-1A	<303>
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EXP	U13	POWER SUPPLY-2 PC board ass'y	NAPS-8546-1J	1	1B068546-1J	<303E>
EXP	U14	SEC. TERMINAL-1 PC board ass'y	NAPS-8547-1A	1	1B068547-1A	<303>
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EXP	U15	SPEAKER TERMINAL PC board ass'y	NAETC-8548-1A	1	1B068548-1A	<303>
EXP	U15	SPEAKER TERMINAL PC board ass'y	NAETC-8548-1J	1	1B068548-1J	<303E>
EXP	U16	VIDEO PC board ass'y	NAVD-8549-1A	1	1B068549-1A	<303>
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EXP	U17	DRIVER AMPLIFIER PC board ass'y	NAAF-8550-1A	1	1B068550-1A	<303>
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EXP	U18	TUNER UNIT	TFCE1U114B	1	240134A	<303>
EXP	U18	TUNER UNIT	TFCE1E512A	1	240135	<303E>

**TX-SR303/303E**

**PC BOARD PARTS LIST**

- U01** DISPLAY PC BOARD (NADIS-8513-1A/1X)
- U02** DSP PC BOARD (NADG-8514-1A/1X)
- U03** SWITCH PC BOARD (NASW-8515-1A/1X)
- U04** HEADPHONE JACK PC BOARD (NAETC-8516-1A/1X)

CIRCUIT NO	NAME	DESCRIPTION	Q'TY	PART NO	REMARKS
PCB1	U131	PHT CP	1	24120129	
PCB1	U821	REMO SENS	1	241361	
PCB1	Q111	IC	1	22242120R2	<303E>
PCB1	Q131	IC	1	22274004R2	
PCB1	Q151	IC	1	22274541ER2TO	
PCB1	Q151 or	IC	(1)	22274541IR2TI	
PCB1	Q152	IC	1	22274007R2TO	
PCB1	Q171	IC	1	22240935R2	
PCB1	Q201	IC	1	22242039R3	

PCB1	Q281	IC	MX26LV040TC	1	W0037R301456M100
PCB1	Q401	IC	NJM4580M-D	1	22241448R2
PCB1	Q402	IC	NJM4580M-D	1	22241448R2
PCB1	Q403	IC	NJM4580M-D	1	22241448R2
PCB1	Q421	IC	CS42518-CQZR-D	1	22242229R2
PCB1	Q701	IC	M30622MGP-236FPU0	1	22242250R3
PCB1	Q703	TR	UNR2213	1	2217140R2
PCB1	Q703 or	TR	KRC104S	(1)	2216210R2
PCB1	Q703 or	TR	RN1404	(1)	2214490R2
PCB1	Q705	TR	UNR2111	1	2217110R2
PCB1	Q705 or	TR	KRA102S	(1)	2216220R2
PCB1	Q705 or	TR	RN2402	(1)	2214530R2
PCB1	Q711	TR	UNR2213	1	2217140R2
PCB1	Q711 or	TR	KRC104S	(1)	2216210R2
PCB1	Q711 or	TR	RN1404	(1)	2214490R2
PCB1	Q712	TR	UNR2111	1	2217110R2
PCB1	Q712 or	TR	KRA102S	(1)	2216220R2
PCB1	Q712 or	TR	RN2402	(1)	2214530R2
PCB1	Q721	IC	S-812C56AUA-C3K	1	22242207R2
PCB1	Q731	TR	UNR2213	1	2217140R2
PCB1	Q731 or	TR	KRC104S	(1)	2216210R2
PCB1	Q731 or	TR	RN1404	(1)	2214490R2
PCB1	Q732	TR	UNR2213	1	2217140R2
PCB1	Q732 or	TR	KRC104S	(1)	2216210R2
PCB1	Q732 or	TR	RN1404	(1)	2214490R2
PCB1	Q801	TUBE PARTS	16BT127GNK	1	213028
PCB1	Q801A	HOLDER	(FL)	1	27191222B
PCB1	Q802	IC	M66005-0001AHP	1	22242208R3
PCB1	Q803	TR	KTC3875-GR	1	2216175R2
PCB1	Q803 or	TR	2SC2712-GR	(1)	2213145R2
PCB1	D101	ZENER D	HZU5.1B	1	224660514R2
PCB1	D101 or	ZENER D	UDZS5.1B	(1)	224550510R2
PCB1	D301	C-DIODE	MA2J111	1	223279R2
PCB1	D301 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D301 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D302	C-DIODE	MA2J111	1	223279R2
PCB1	D302 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D302 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D303	C-DIODE	MA2J111	1	223279R2
PCB1	D303 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D303 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D304	C-DIODE	MA2J111	1	223279R2
PCB1	D304 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D304 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D305	C-DIODE	MA2J111	1	223279R2
PCB1	D305 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D305 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D306	C-DIODE	MA2J111	1	223279R2
PCB1	D306 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D306 or	C-DIODE	1SS355	(1)	223269R2
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PCB1	D307 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D307 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D308	C-DIODE	MA2J111	1	223279R2
PCB1	D308 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D308 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D701	C-DIODE	MA2J111	1	223279R2
PCB1	D701 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D701 or	C-DIODE	1SS355	(1)	223269R2
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PCB1	D702 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D703	C-DIODE	MA2J111	1	223279R2
PCB1	D703 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D703 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D706	C-DIODE	MA2J111	1	223279R2
PCB1	D706 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D706 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D707	ZENER D	HZU5.1B	1	224660514R2
PCB1	D707 or	ZENER D	UDZS5.1B	(1)	224550510R2
PCB1	D708	C-DIODE	MA2J111	1	223279R2
PCB1	D708 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D708 or	C-DIODE	1SS355	(1)	223269R2
PCB1	D711	C-DIODE	MA2J111	1	223279R2
PCB1	D711 or	C-DIODE	1SS352	(1)	223234R2
PCB1	D711 or	C-DIODE	1SS355	(1)	223269R2

PCB1	D811	ZENER D	HZU7.5B	1	224660754R2	
PCB1	D811 or	ZENER D	UDZS7.5B	( 1)	224550750R2	
PCB1	D821	LED	SLI-343URC-TE7	1	225449	
PCB1	L111	CHOKE COIL	NCH-1471	1	231237K022R2	<303E>
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PCB1	L131	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L131 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	L133	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L133 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	L134	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L134 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	L171	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L171 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	L172	EMIFIL	BK1608LM182-T	1	230958R1	
PCB1	L173	EMIFIL	BK1608LM182-T	1	230958R1	
PCB1	L201	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L202	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L203	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L281	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L301	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L302	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L303	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L311	EMIFIL	BK1608LM182-T	1	230958R1	
PCB1	L312	EMIFIL	BK1608LM182-T	1	230958R1	
PCB1	L313	EMIFIL	BK1608LM182-T	1	230958R1	
PCB1	L701	CHOKE COIL	NCH-1479	1	231237K470R2	
PCB1	L811	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L811 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	L812	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L812 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	L891	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L891 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	L892	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L892 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	L893	CHOKE COIL	NCH-1471	1	231237K022R2	
PCB1	L893 or	CHOKE COIL	NCH-1587-022M	( 1)	233533M022R2	
PCB1	X111	XTL	AF6146CG	1	3010203	<303E>
PCB1	X171	CRYSTAL	HC-49U0312.288MHz	1	3010414	
PCB1	X171A	TAPE	TAPE(CLOTH-8U)	1	29110082	
PCB1	X701	CERA LOCK	CSTCR6M0055-R0	1	3010397R2	
PCB1	C101	VR C	CE04W16V-100M(VR)	1	394641017	
PCB1	C102	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB1	C103	C-CERA C	CC725CH1H-101J1	1	342101014R1	
PCB1	C104	VR C	CE04W50V-3.3M(VR)	1	394680337	
PCB1	C105	VR C	CE04W50V-3.3M(VR)	1	394680337	
PCB1	C111	VR C	CE04W16V-100M(VR)	1	394641017	<303E>
PCB1	C113	C-CERA C	CK725F1E-104Z1	1	332161040R1	<303E>
PCB1	C114	VR C	CE04W50V-2.2M(VR)	1	394680227	<303E>
PCB1	C115	C-CERA C	CC725CH1H-561J1	1	342105614R1	<303E>
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PCB1	C132	C-CERA C	CK725B1C-104K1	1	332121045R1	
PCB1	C133	C-CERA C	CC725CH1H-080D1	1	342100802R1	
PCB1	C139	VR C	CE04W16V-100M(VR)	1	394641017	
PCB1	C140	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C141	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C145	VR C	CE04W16V-100M(VR)	1	394641017	
PCB1	C146	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C151	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C152	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C171	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C172	C-CERA C	CC725CH1H-120J1	1	342101204R1	
PCB1	C173	C-CERA C	CC725CH1H-120J1	1	342101204R1	
PCB1	C201	VR C	CE04W16V-100M(VR)	1	394641017	
PCB1	C202	VR C	CE04W16V-100M(VR)	1	394641017	
PCB1	C203	VR C	CE04W16V-100M(VR)	1	394641017	
PCB1	C204	CHIP TANTAL	CS725B1C-2.2M	1	395640227R2	
PCB1	C205	C SERA C	CC725CH1H-122J1	1	342101224R1	
PCB1	C206	C-CERA C	CC725CH1H-680J1	1	342106804R1	
PCB1	C207	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C208	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C209	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C210	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C212	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C213	C-CERA C	CK725F1E-104Z1	1	332161040R1	



PCB1	C214	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C215	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C216	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C217	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C219	C-CERA C	CC725CH1H-101J1	1	342101014R1
PCB1	C281	VR C	CE04W16V-100M(VR)	1	394641017
PCB1	C282	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C301	VR C	CE04W6.3V-220M(VR)	1	394622217
PCB1	C302	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C304	VX C	CE04W50V-47M(VX)	1	393384707
PCB1	C305	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C306	VR C	CE04W16V-100M(VR)	1	394641017
PCB1	C307	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C308	VR C	CE04W6.3V-220M(VR)	1	394622217
PCB1	C309	C-CERA C	CK725B1H-222K1	1	332102225R1
PCB1	C310	C-CERA C	CK725B1H-473K1	1	332104735R1
PCB1	C311	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C312	VR C	CE04W6.3V-220M(VR)	1	394622217
PCB1	C313	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C321	VX C	CE04W50V-10M(VX)	1	393381007
PCB1	C322	VX C	CE04W50V-10M(VX)	1	393381007
PCB1	C323	VX C	CE04W50V-10M(VX)	1	393381007
PCB1	C324	VX C	CE04W50V-10M(VX)	1	393381007
PCB1	C325	TF C	ECQ-B50V-222J	1	374722224
PCB1	C326	TF C	ECQ-B50V-222J	1	374722224
PCB1	C331	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C332	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB1	C401	TF C	ECQ-B50V-472J	1	374724724
PCB1	C402	TF C	ECQ-B50V-472J	1	374724724
PCB1	C403	TF C	ECQ-B50V-472J	1	374724724
PCB1	C404	TF C	ECQ-V50V-333J	1	374723334
PCB1	C405	TF C	ECQ-B50V-472J	1	374724724
PCB1	C406	TF C	ECQ-B50V-472J	1	374724724
PCB1	C411	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C412	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C413	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C415	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C416	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C419	TF C	ECQ-B50V-153J	1	374721534
PCB1	C420	TF C	ECQ-B50V-153J	1	374721534
PCB1	C421	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C422	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C423	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C425	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C426	C-CERA C	CC725CH1H-681J1	1	342106814R1
PCB1	C523	VX C	CE04W50V-10M(VX)	1	393381007
PCB1	C524	VX C	CE04W50V-10M(VX)	1	393381007
PCB1	C525	VX C	CE04W50V-10M(VX)	1	393381007
PCB1	C526	VX C	CE04W50V-10M(VX)	1	393381007
PCB1	C531	VR C	CE04W16V-220M(VR)	1	394642217
PCB1	C532	VR C	CE04W16V-220M(VR)	1	394642217
PCB1	C701	VR C	CE04W16V-100M(VR)	1	394641017
PCB1	C702	VR C	CE04W16V-100M(VR)	1	394641017
PCB1	C703	VR C	CE04W16V-100M(VR)	1	394641017
PCB1	C704	EDL C	DX-5R5L224	1	3000079
PCB1	C705	VR C	CE04W16V-100M(VR)	1	394641017
PCB1	C706	VR C	CE04W50V-1M(VR)	1	394680107
PCB1	C707	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C708	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C709	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C710	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C711	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C712	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C713	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C714	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C715	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C716	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C717	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C718	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C719	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C720	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C721	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C722	C-CERA C	CK725B1H-102K1	1	332101025R1
PCB1	C723	C-CERA C	CK725F1E-104Z1	1	332161040R1
PCB1	C724	TF C	ECQ-V50V-124J	1	374721244
PCB1	C747	VX C	CE04W50V-10M(VX)	1	393381007

PCB1	C751	C-CERA C	CK732B1C-474K	1	337394745R1	
PCB1	C754	VX C	CE04W50V-10M(VX)	1	393381007	
PCB1	C801	MMT C	MMT50V-474J	1	375524744	
PCB1	C802	ELECT C	CE04W6.3V-100M(S)	1	353721019	
PCB1	C803	C-CERA C	CC725CHI1H-101J1	1	342101014R1	
PCB1	C804	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C805	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C806	C-CERA C	CC725CHI1H-101J1	1	342101014R1	
PCB1	C807	C-CERA C	CC725CHI1H-101J1	1	342101014R1	
PCB1	C808	C-CERA C	CC725CHI1H-101J1	1	342101014R1	
PCB1	C809	C-CERA C	CC725CHI1H-101J1	1	342101014R1	
PCB1	C811	C-CERA C	CK725F1H-473Z1	1	332154730R1	
PCB1	C812	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C813	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C814	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C815	C-CERA C	CK725F1H-473Z1	1	332154730R1	
PCB1	C816	C-CERA C	CK725F1H-473Z1	1	332154730R1	
PCB1	C817	ELECT C	CE04W50V-33M	1	355783309	
PCB1	C818	C-CERA C	CK725F1H-473Z1	1	332154730R1	
PCB1	C819	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C820	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C821	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C822	C-CERA C	CK725F1E-104Z1	1	332161040R1	
PCB1	C823	ELECT C	CE04W6.3V-100M(S)	1	353721019	
PCB1	C825	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB1	C891	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB1	C892	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB1	C893	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB1	C894	C-CERA C	CK725B1H-102K1	1	332101025R1	
PCB1	C896	TF C	ECQ-V50V-124J	1	374721244	
PCB1	R101	C-CARBON R	RN72K1J-561JE	1	435035614R1	
PCB1	R102	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB1	R103	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB1	R104	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB1	R105	C-CARBON R	RN72K1J-473JE	1	435034734R1	
PCB1	R106	C-CARBON R	RN72K1J-223JE	1	435032234R1	
PCB1	R107	C-CARBON R	RN72K1J-473JE	1	435034734R1	
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PCB1	R132	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R133	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R134	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R137	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R139	C-CARBON R	RN72K1J-224JE	1	435032244R1	
PCB1	R141	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R161	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R162	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R163	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R164	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R165	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R166	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R171	C-CARBON R	RN72K1J-105JE	1	435031054R1	
PCB1	R201	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R202	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R203	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R205	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R208	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R209	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R210	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R211	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R212	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R215	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R216	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R217	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R218	C-CARBON R	RN72K1J-103JE	1	435031034R1	
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PCB1	R220	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R221	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R222	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R223	C-CARBON R	RN72K1J-103JE	1	435031034R1	





PCB1	R719	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R729	C-CARBON R	RN72K1J-100JE	1	435031004R1	
PCB1	R730	C-CARBON R	RN72K1J-100JE	1	435031004R1	
PCB1	R731	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R732	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R733	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R734	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R736	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R747	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R758	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R759	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R763	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB1	R765	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB1	R766	C-CARBON R	RN72K1J-102JE	1	435031024R1	
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PCB1	R771	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB1	R772	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB1	R773	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R775	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB1	R781	C-CARBON R	RN72K1J-102JE	1	435031024R1	
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PCB1	R784	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB1	R785	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R786	C-CARBON R	RN72K1J-000JE	1	435030004R1	
PCB1	R787	C-CARBON R	RN72K1J-333JE	1	435033334R1	
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PCB1	R791	C-CARBON R	RN72K1J-472JE	1	435034724R1	
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PCB1	R795	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB1	R797	C-CARBON R	RN72K1J-472JE	1	435034724R1	
PCB1	R800	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R801	C-CARBON R	RN72K1J-273JE	1	435032734R1	
PCB1	R802	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R803	C-CARBON R	RN72K1J-332JE	1	435033324R1	
PCB1	R804	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R805	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R806	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R807	C-CARBON R	RN72K1J-221JE	1	435032214R1	
PCB1	R808	C-CARBON R	RN72K1J-104JE	1	435031044R1	
PCB1	R810	C-CARBON R	RN72K1J-101JE	1	435031014R1	
PCB1	R811	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R812	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R813	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R814	C-CARBON R	RN72K1J-103JE	1	435031034R1	
PCB1	R821	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R827	C-CARBON R	RN72K1J-101JE	1	435031014R1	
PCB1	R828	C-CARBON R	RN72K1J-102JE	1	435031024R1	
PCB1	R831	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R832	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB1	R833	C-CARBON R	RN72K1J-561JE	1	435035614R1	
PCB1	R834	C-CARBON R	RN72K1J-821JE	1	435038214R1	
PCB1	R835	C-CARBON R	RN72K1J-122JE	1	435031224R1	
PCB1	R836	C-CARBON R	RN72K1J-222JE	1	435032224R1	
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PCB1	R843	C-CARBON R	RN72K1J-561JE	1	435035614R1	
PCB1	R844	C-CARBON R	RN72K1J-821JE	1	435038214R1	
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PCB1	R847	C-CARBON R	RN72K1J-392JE	1	435033924R1	
PCB1	R851	C-CARBON R	RN72K1J-331JE	1	435033314R1	
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PCB1	R853	C-CARBON R	RN72K1J-561JE	1	435035614R1	
PCB1	R854	C-CARBON R	RN72K1J-821JE	1	435038214R1	
PCB1	R855	C-CARBON R	RN72K1J-122JE	1	435031224R1	
PCB1	R856	C-CARBON R	RN72K1J-222JE	1	435032224R1	
PCB1	R857	C-CARBON R	RN72K1J-392JE	1	435033924R1	
PCB1	R858	C-CARBON R	RN72K1J-123JE	1	435031234R1	
PCB1	R861	C-CARBON R	RN72K1J-331JE	1	435033314R1	
PCB1	R862	C-CARBON R	RN72K1J-471JE	1	435034714R1	
PCB1	R863	C-CARBON R	RN72K1J-561JE	1	435035614R1	

PCB1	R864	C-CARBON R	RN72K1J-821JE	1	435038214R1
PCB1	R865	C-CARBON R	RN72K1J-122JE	1	435031224R1
PCB1	R866	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB1	R867	C-CARBON R	RN72K1J-392JE	1	435033924R1
PCB1	R868	C-CARBON R	RN72K1J-123JE	1	435031234R1
PCB1	P101A	SOCKET	NSCT-15P2108	1	25052211
PCB1	P132	PIN JACK	NPJ-1PDBL291	1	25045473
PCB1	P132 or	PIN JACK	NPJ-1PDO554	(1)	25045772
PCB1	P2005	PLUG	NPLG-13P0968	1	25056018
PCB1	P301A	SOCKET	NSCT-10P2190	1	25052293
PCB1	P302A	SOCKET	NSCT-20P2200	1	25052303
PCB1	P303A	SOCKET	NSCT-20P2200	1	25052303
PCB1	P311A	SOCKET AS	NSAS-20P1043	1	2002A392025UL
PCB1	P312	HOLDER	HOLDER(CLAMP)	1	27190540-1
PCB1	P703A	SOCKET	NSCT-23P2257	1	25052360
PCB1	P703Aor	SOCKET	NSCT-23P2441	(1)	25052544
PCB1	P703B	SOCKET	NSCT-23P2257	1	25052360
PCB1	P703Bor	SOCKET	NSCT-23P2441	(1)	25052544
PCB1	P721	ST JACK	LGY2502-0200C	1	25045696
PCB1	P751A	SOCKET	NSCT-9P2427	1	25052530
PCB1	P891	ST JACK	MSJ-064-05A SR	1	25045783
PCB1	P891 or	ST JACK	YKB21-5005	(1)	25045724
PCB1	S801	PUSH SW	NPS-111-S681	1	25035718
PCB1	S801 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S807	PUSH SW	NPS-111-S681	1	25035718
PCB1	S807 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S808	PUSH SW	NPS-111-S681	1	25035718
PCB1	S808 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S809	PUSH SW	NPS-111-S681	1	25035718
PCB1	S809 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S811	PUSH SW	NPS-111-S681	1	25035718
PCB1	S811 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S812	PUSH SW	NPS-111-S681	1	25035718
PCB1	S812 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S813	PUSH SW	NPS-111-S681	1	25035718
PCB1	S813 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S815	PUSH SW	NPS-111-S681	1	25035718
PCB1	S815 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S816	PUSH SW	NPS-111-S681	1	25035718
PCB1	S816 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S817	PUSH SW	NPS-111-S681	1	25035718
PCB1	S817 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S818	PUSH SW	NPS-111-S681	1	25035718
PCB1	S818 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S821	PUSH SW	NPS-111-S681	1	25035718
PCB1	S821 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S822	PUSH SW	NPS-111-S681	1	25035718
PCB1	S822 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S823	PUSH SW	NPS-111-S681	1	25035718
PCB1	S823 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S824	PUSH SW	NPS-111-S681	1	25035718
PCB1	S824 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S825	PUSH SW	NPS-111-S681	1	25035718
PCB1	S825 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S826	PUSH SW	NPS-111-S681	1	25035718
PCB1	S826 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S827	PUSH SW	NPS-111-S681	1	25035718
PCB1	S827 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S828	PUSH SW	NPS-111-S681	1	25035718
PCB1	S828 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S829	PUSH SW	NPS-111-S681	1	25035718
PCB1	S829 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S831	PUSH SW	NPS-111-S681	1	25035718
PCB1	S831 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S832	PUSH SW	NPS-111-S681	1	25035718
PCB1	S832 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S833	PUSH SW	NPS-111-S681	1	25035718
PCB1	S833 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S834	PUSH SW	NPS-111-S681	1	25035718
PCB1	S834 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S835	PUSH SW	NPS-111-S681	1	25035718
PCB1	S835 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S836	PUSH SW	NPS-111-S681	1	25035718
PCB1	S836 or	PUSH SW	NPS-111-S677	(1)	25035714
PCB1	S837	PUSH SW	NPS-111-S681	1	25035718
PCB1	S837 or	PUSH SW	NPS-111-S677	(1)	25035714

PCB1	S838	PUSH SW	NPS-111-S681	1	25035718	
PCB1	S838 or	PUSH SW	NPS-111-S677	( 1)	25035714	
PCB1	S839	PUSH SW	NPS-111-S681	1	25035718	
PCB1	S839 or	PUSH SW	NPS-111-S677	( 1)	25035714	
PCB1	S851	R ENCODE	EC12E2425	1	25065655	
PCB1	E301	TRM	NTM-1P233(M1969)	1	25060302	
PCB1	E301A	ISO PLT	---	1	28175316	
PCB1	E891	RETAINER	KANAGU	1	27141059	
PCB1	JL832A	WIRE HOL	NSCT-3P894	1	25051107	
PCB1	JL832B	WIRE HOL	NSCT-3P894	1	25051107	
PCB1	JL891A	WIRE HOL	NSCT-5P896	1	25051109	

- U05** AMPLIFIER PC BOARD (NAAF-8523-1A)
- U06** SEC. TERMINAL-2 PC BOARD (NAPS-8524-1A)
- U07** SBR AMPLIFIER PC BOARD (NAETC-8525-1A)
- U08** THERMAL SENSOR PC BOARD (NAETC-8526-1A)
- U09** HOLDER PC BOARD (NAETC-8527-1A)

CIRCUIT N°	NAME	DESCRIPTION	Q'TY	PART NO	REMARKS
PCB2	Q5501	IC	1	NJW1157B	22242193R3
PCB2	Q5502	IC	1	NJU7311AM	22242209R2
PCB2	Q5503	IC	1	NJM4580M-D	22241448R2
PCB2	Q5600	TR	1	RN1441	2215410R2
PCB2	Q5601	TR	1	RN1441	2215410R2
PCB2	Q5602	TR	1	RN1441	2215410R2
PCB2	Q5603	TR	1	RN1441	2215410R2
PCB2	Q5604	TR	1	RN1441	2215410R2
PCB2	Q5607	TR	1	RN1441	2215410R2
PCB2	Q5617	TR	1	RN1441	2215410R2
PCB2	Q5630	IC	1	NM4580M-D	22241448R2
PCB2	Q5640	IC	1	AN34060A	22242205
PCB2	Q5660	IC(REGULATOR)	1	7812HF(TA7812S)	222780124TOS
PCB2	Q5660 or	IC(REGULATOR)	( 1)	78M12HF	222780125
PCB2	Q5660A	SCREW	1	3P-10FN(BC)	82143010
PCB2	Q5661	IC(REGULATOR)	1	79012HF(TA79012S)	222790124TOS
PCB2	Q5661 or	IC(REGULATOR)	( 1)	79M12HF	222790125
PCB2	Q5661A	SCREW	1	3P-10FN(BC)	82143010
PCB2	Q5661B	HEAT SINK	1	RAD-213	27160570
PCB2	Q6010	TR	1	2SC1740S-S	2213285
PCB2	Q6011	TR	1	2SC1740S-S	2213285
PCB2	Q6012	TR	1	2SC1740S-S	2213285
PCB2	Q6013	TR	1	2SC1740S-S	2213285
PCB2	Q6014	TR	1	2SC1740S-S	2213285
PCB2	Q6020	TR	1	2SC1740S-S	2213285
PCB2	Q6021	TR	1	2SC1740S-S	2213285
PCB2	Q6022	TR	1	2SC1740S-S	2213285
PCB2	Q6023	TR	1	2SC1740S-S	2213285
PCB2	Q6024	TR	1	2SC1740S-S	2213285
PCB2	Q6030	TR	1	2SC5171	2203010
PCB2	Q6030 or	TR	( 1)	2SC5993-Q,P	2217161
PCB2	Q6031	TR	1	2SC5171	2203010
PCB2	Q6031 or	TR	( 1)	2SC5993-Q,P	2217161
PCB2	Q6032	TR	1	2SC5171	2203010
PCB2	Q6032 or	TR	( 1)	2SC5993-Q,P	2217161
PCB2	Q6033	TR	1	2SC5171	2203010
PCB2	Q6033 or	TR	( 1)	2SC5511-E	2203845
PCB2	Q6034	TR	1	2SC5171	2203010
PCB2	Q6034 or	TR	( 1)	2SC5511-E	2203845
PCB2	Q6040	TR	1	2SA1930	2203000
PCB2	Q6040 or	TR	( 1)	2SA2140-Q,P	2217151
PCB2	Q6041	TR	1	2SA1930	2203000
PCB2	Q6041 or	TR	( 1)	2SA2140-Q,P	2217151
PCB2	Q6042	TR	1	2SA1930	2203000
PCB2	Q6042 or	TR	( 1)	2SA2140-Q,P	2217151
PCB2	Q6043	TR	1	2SA1930	2203000
PCB2	Q6043 or	TR	( 1)	2SA2005-E	2203835
PCB2	Q6044	TR	1	2SA1930	2203000
PCB2	Q6044 or	TR	( 1)	2SA2005-E	2203835
PCB2	Q6070	TR	1	2SC2240-GR	2211405
PCB2	Q6070 or	TR	( 1)	2SC2240-BL	2211406
PCB2	Q6071	TR	1	2SC2240-GR	2211405
PCB2	Q6071 or	TR	( 1)	2SC2240-BL	2211406
PCB2	Q6072	TR	1	2SC2240-GR	2211405
PCB2	Q6072 or	TR	( 1)	2SC2240-BL	2211406
PCB2	Q6073	TR	1	2SC2240-GR	2211405
PCB2	Q6073 or	TR	( 1)	2SC2240-BL	2211406

PCB2	Q6074	TR	2SC2240-GR	1	2211405	
PCB2	Q6074 or	TR	2SC2240-BL	(1)	2211406	
PCB2	Q6380	IC	LM61CIZ	1	22242212	
PCB2	Q6701	TR	2SC2240-GR	1	2211405	
PCB2	Q6701 or	TR	2SC2240-BL	(1)	2211406	
PCB2	Q6701 or	TR	KTC3200-BL	(1)	2215896	
PCB2	Q6701 or	TR	KTC3200-GR	(1)	2215895	
PCB2	Q6702	TR	2SC2240-GR	1	2211405	
PCB2	Q6702 or	TR	2SC2240-BL	(1)	2211406	
PCB2	Q6702 or	TR	KTC3200-BL	(1)	2215896	
PCB2	Q6702 or	TR	KTC3200-GR	(1)	2215895	
PCB2	Q6703	TR	KTA1268-BL	1	2215886	
PCB2	Q6703 or	TR	2SA1123-R	(1)	2214974	
PCB2	Q6703 or	TR	2SA992-E	(1)	2211793	
PCB2	Q6703 or	TR	2SA992-F	(1)	2211792	
PCB2	Q6703 or	TR	KTA1268-GR	(1)	2215885	
PCB2	Q6901	TR	KTC3199-GR	1	2215864	
PCB2	Q6901 or	TR	2SC1740S-R	(1)	2213284	
PCB2	Q6901 or	TR	2SC1740S-S	(1)	2213285	
PCB2	Q6901 or	TR	2SC2458-GR	(1)	2212115	
PCB2	D5671	ZENER D	MTZJ6.8C	1	224470683	
PCB2	D5672	ZENER D	MTZJ6.8C	1	224470683	
PCB2	D5710	DIODE	1SS133	1	223163	
PCB2	D5710 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D5710 or	DIODE	1SS270A	(1)	223205	
PCB2	D5711	DIODE	1SS133	1	223163	
PCB2	D5711 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D5711 or	DIODE	1SS270A	(1)	223205	
PCB2	D6000	DIODE	1SS133	1	223163	
PCB2	D6000 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6000 or	DIODE	1SS270A	(1)	223205	
PCB2	D6001	DIODE	1SS133	1	223163	
PCB2	D6001 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6001 or	DIODE	1SS270A	(1)	223205	
PCB2	D6002	DIODE	1SS133	1	223163	
PCB2	D6002 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6002 or	DIODE	1SS270A	(1)	223205	
PCB2	D6003	DIODE	1SS133	1	223163	
PCB2	D6003 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6003 or	DIODE	1SS270A	(1)	223205	
PCB2	D6004	DIODE	1SS133	1	223163	
PCB2	D6004 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6004 or	DIODE	1SS270A	(1)	223205	
PCB2	D6010	DIODE	1SS133	1	223163	
PCB2	D6010 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6010 or	DIODE	1SS270A	(1)	223205	
PCB2	D6011	DIODE	1SS133	1	223163	
PCB2	D6011 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6011 or	DIODE	1SS270A	(1)	223205	
PCB2	D6012	DIODE	1SS133	1	223163	
PCB2	D6012 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6012 or	DIODE	1SS270A	(1)	223205	
PCB2	D6013	DIODE	1SS133	1	223163	
PCB2	D6013 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6013 or	DIODE	1SS270A	(1)	223205	
PCB2	D6014	DIODE	1SS133	1	223163	
PCB2	D6014 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6014 or	DIODE	1SS270A	(1)	223205	
PCB2	D6701	DIODE	1SS133	1	223163	
PCB2	D6701 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6701 or	DIODE	1SS270A	(1)	223205	
PCB2	D6702	DIODE	1SS133	1	223163	
PCB2	D6702 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6702 or	DIODE	1SS270A	(1)	223205	
PCB2	D6703	ZENER D	MTZJ5.1B	1	224470512	
PCB2	D6703 or	ZENER D	DZ-5.1BSB	(1)	224850512	
PCB2	D6704	ZENER D	MTZJ5.1B	1	224470512	
PCB2	D6704 or	ZENER D	DZ-5.1BSB	(1)	224850512	
PCB2	D6901	DIODE	1SS133	1	223163	
PCB2	D6901 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6901 or	DIODE	1SS270A	(1)	223205	
PCB2	D6902	DIODE	1SS133	1	223163	
PCB2	D6902 or	DIODE	1SS133(DS)	(1)	223280	
PCB2	D6902 or	DIODE	1SS270A	(1)	223205	
PCB2	D6904	DIODE	D5SBA20	1	22380130F	
PCB2	D6904 or	DIODE	RBV602	(1)	22380038F	



PCB2	D6904 or	DIODE	RS603M-B42	( 1)	22380274F
PCB2	D6905	DIODE	D5SBA20	1	22380130F
PCB2	D6905 or	DIODE	RBV602	( 1)	22380038F
PCB2	D6905 or	DIODE	RS603M-B42	( 1)	22380274F
PCB2	D6906	DIODE	1SS133	1	223163
PCB2	D6906 or	DIODE	1SS133(DS)	( 1)	223280
PCB2	D6906 or	DIODE	1SS270A	( 1)	223205
PCB2	D9005	DIODE	D3SBA20	1	22380271F
PCB2	D9005 or	DIODE	RS403M	( 1)	22380285F
PCB2	D9011	DIODE	RLIN4003	1	22380260
PCB2	D9011 or	DIODE	GP104003E	( 1)	22380035
PCB2	C5503	TF C	ECQ-B50V-221K	1	374722215
PCB2	C5504	TF C	ECQ-B50V-221K	1	374722215
PCB2	C5507	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5508	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5509	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5510	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5513	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5514	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5517	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5518	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5519	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5520	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5521	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5522	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5523	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5524	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5529	C-CERA C	CC725CH1H-102J1	1	342101024R1
PCB2	C5550	VX C	CE04W50V-4.7M(VX)	1	393380477
PCB2	C5551	MMT C	MMT50V-224J	1	375522244
PCB2	C5552	TF C	ECQ-B50V-472J	1	374724724
PCB2	C5553	VX C	CE04W50V-4.7M(VX)	1	393380477
PCB2	C5554	MMT C	MMT50V-224J	1	375522244
PCB2	C5555	TF C	ECQ-B50V-472J	1	374724724
PCB2	C5556	VX C	CE04W25V-47M(VX)	1	393354707
PCB2	C5557	VX C	CE04W25V-47M(VX)	1	393354707
PCB2	C5558	VX C	CE04W25V-47M(VX)	1	393354707
PCB2	C5559	VX C	CE04W25V-47M(VX)	1	393354707
PCB2	C5560	VX C	CE04W25V-47M(VX)	1	393354707
PCB2	C5561	VX C	CE04W25V-47M(VX)	1	393354707
PCB2	C5562	VX C	CE04W25V-47M(VX)	1	393354707
PCB2	C5563	VX C	CE04W25V-47M(VX)	1	393354707
PCB2	C5564	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5565	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5566	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5567	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5568	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5569	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5570	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5571	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5572	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5573	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5574	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5575	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5576	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5577	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5578	VX C	CE04W50V-1M(VX)	1	393380107
PCB2	C5590	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB2	C5591	C-CERA C	CC725CH1H-330J1	1	342103304R1
PCB2	C5600	VX C	CE04W50V-47M(VX)	1	393384707
PCB2	C5601	VX C	CE04W50V-47M(VX)	1	393384707
PCB2	C5602	VX C	CE04W50V-47M(VX)	1	393384707
PCB2	C5603	VX C	CE04W50V-47M(VX)	1	393384707
PCB2	C5604	VX C	CE04W50V-47M(VX)	1	393384707
PCB2	C5607	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5608	VX C	CE04W50V-47M(VX)	1	393384707
PCB2	C5609	VX C	CE04W50V-47M(VX)	1	393384707
PCB2	C5630	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5631	C-CERA C	CC725CH1H-221J1	1	342102214R1
PCB2	C5632	C-CERA C	CK725B1H-103K1	1	332101035R1
PCB2	C5640	VX C	CE04W50V-22M(VX)	1	393382207
PCB2	C5641	VX C	CE04W50V-22M(VX)	1	393382207
PCB2	C5642	VX C	CE04W50V-22M(VX)	1	393382207
PCB2	C5643	VX C	CE04W50V-22M(VX)	1	393382207
PCB2	C5660	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5661	VX C	CE04W50V-10M(VX)	1	393381007

PCB2	C5662	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5663	VX C	CE04W50V-10M(VX)	1	393381007
PCB2	C5664	VX C	CE04W25V-100M(VX)	1	393351017
PCB2	C5665	VX C	CE04W25V-100M(VX)	1	393351017
PCB2	C5666	VX C	CE04W25V-220M(VX)	1	393352217
PCB2	C5667	VX C	CE04W25V-220M(VX)	1	393352217
PCB2	C5668	VX C	CE04W25V-220M(VX)	1	393352217
PCB2	C5669	VX C	CE04W25V-220M(VX)	1	393352217
PCB2	C5673	VX C	CE04W25V-220M(VX)	1	393352217
PCB2	C5674	VX C	CE04W25V-220M(VX)	1	393352217
PCB2	C5702	C-CERA C	CK725B1H-103K1	1	332101035R1
PCB2	C5705	C-CERA C	CK725B1H-103K1	1	332101035R1
PCB2	C5707	C-CERA C	CK725B1H-103K1	1	332101035R1
PCB2	C5708	C-CERA C	CK725B1H-103K1	1	332101035R1
PCB2	C5710	C-CERA C	CK725B1H-103K1	1	332101035R1
PCB2	C5712	TF C	ECQ-B50V-102J	1	374721024
PCB2	C6040	ELECT C	CE04W50V-47M(VZ)	1	394584707
PCB2	C6041	ELECT C	CE04W50V-47M(VZ)	1	394584707
PCB2	C6042	ELECT C	CE04W50V-47M(VZ)	1	394584707
PCB2	C6043	ELECT C	CE04W50V-47M(VZ)	1	394584707
PCB2	C6044	ELECT C	CE04W50V-47M(VZ)	1	394584707
PCB2	C6230	TF C	ECQ-V50V-473J	1	374724734
PCB2	C6231	TF C	ECQ-V50V-473J	1	374724734
PCB2	C6232	TF C	ECQ-V50V-473J	1	374724734
PCB2	C6233	TF C	ECQ-V50V-473J	1	374724734
PCB2	C6234	TF C	ECQ-V50V-473J	1	374724734
PCB2	C6701	VR C	CE04W16V-100M(VR)	1	394641017
PCB2	C6703	CERA C	CK45F50V-223Z	1	335622230
PCB2	C6704	VX C	CE04W100V-1M(VX)	1	393390107
PCB2	C6706	VR C	CE04W16V-100M(VR)	1	394641017
PCB2	C6901	ELECT C	CE69W56V-8200MB	1	3504416
PCB2	C6902	ELECT C	CE69W56V-8200MB	1	3504416
PCB2	C6903	TF C	ECQ-B50V-102J	1	374721024
PCB2	C6904	TF C	ECQ-V50V-334J	1	374723344
PCB2	C6905	TF C	ECQ-V50V-334J	1	374723344
PCB2	C6906	TF C	ECQ-V50V-104J	1	374721044
PCB2	C6907	TF C	ECQ-V50V-104J	1	374721044
PCB2	C9005	MMT C	MMT50V-334J	1	375523344
PCB2	C9010	VR C	CE04W16V-4700M(VR)	1	394644727
PCB2	C9017	TF C	ECQ-B50V-102J	1	374721024
PCB2	R5503	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5504	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5505	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5506	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5507	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5508	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5513	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5514	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5515	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5516	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5517	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5518	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5519	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5520	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5521	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5522	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5523	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5524	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5529	C-CARBON R	RN72K1J-101JE	1	435031014R1
PCB2	R5545	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5546	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5551	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5552	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5555	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5556	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5561	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5562	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5563	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5564	C-CARBON R	RN72K1J-563JE	1	435035634R1
PCB2	R5569	C-CARBON R	RN72K1J-223JE	1	435032234R1
PCB2	R5581	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R5582	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R5583	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R5587	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R5588	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R5589	C-CARBON R	RN72K1J-221JE	1	435032214R1

PCB2	R5590	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R5591	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R5592	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB2	R5593	C-CARBON R	RN72K1J-122JE	1	435031224R1
PCB2	R5594	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R5595	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R5596	C-CARBON R	RN72K1J-471JE	1	435034714R1
PCB2	R5597	C-CARBON R	RN72K1J-122JE	1	435031224R1
PCB2	R5598	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R5599	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R5600	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB2	R5601	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB2	R5602	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB2	R5603	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB2	R5604	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB2	R5607	C-CARBON R	RN72K1J-224JE	1	435032244R1
PCB2	R5610	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB2	R5611	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB2	R5612	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB2	R5613	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB2	R5614	C-CARBON R	RN72K1J-222JE	1	435032224R1
PCB2	R5617	C-CARBON R	RN72K1J-271JE	1	435032714R1
PCB2	R5620	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5621	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5622	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5623	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5624	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5627	C-CARBON R	RN72K1J-101JE	1	435031014R1
PCB2	R5630	C-CARBON R	RN72K1J-221JE	1	435032214R1
PCB2	R5631	C-CARBON R	RN72K1J-473JE	1	435034734R1
PCB2	R5632	C-CARBON R	RN72K1J-153JE	1	435031534R1
PCB2	R5633	C-CARBON R	RN72K1J-122JE	1	435031224R1
PCB2	R5634	C-CARBON R	RN72K1J-103JE	1	435031034R1
PCB2	R5640	CARBON R	R25J-0.22	1	415472294
PCB2	R5660	METAL O R	RS2WBJ-12	1	442721204F
PCB2	R5661	METAL O R	RS2WBJ-22	1	442722204F
PCB2	R5662	C-CARBON R	RN72K1J-220JE	1	435032204R1
PCB2	R5663	C-CARBON R	RN72K1J-220JE	1	435032204R1
PCB2	R5664	METAL O R	RS1WBJ-68	1	443626804
PCB2	R5665	METAL O R	RS1WBJ-68	1	443626804
PCB2	R5666	CARBON R	R16J-22	1	417342204
PCB2	R5667	CARBON R	R16J-22	1	417342204
PCB2	R5671	CARBON R	R16J-22	1	417342204
PCB2	R5672	CARBON R	R16J-22	1	417342204
PCB2	R5681	C-CARBON R	RN72K1J-104JE	1	435031044R1
PCB2	R5682	CARBON R	R16J-100K	1	417341044
PCB2	R5704	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5706	C-CARBON R	RN72K1J-331JE	1	435033314R1
PCB2	R5800	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5801	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5802	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5803	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5804	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5805	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5806	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5807	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5808	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5809	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5810	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R5814	C-CARBON R	RN72K1J-000JE	1	435030004R1
PCB2	R6000	CARBON R	R16J-5.6K	1	417345624
PCB2	R6001	CARBON R	R16J-5.6K	1	417345624
PCB2	R6002	CARBON R	R16J-5.6K	1	417345624
PCB2	R6003	CARBON R	R16J-5.6K	1	417345624
PCB2	R6004	CARBON R	R16J-5.6K	1	417345624
PCB2	R6010	CARBON R	R16J-3.9K	1	417343924
PCB2	R6011	CARBON R	R16J-3.9K	1	417343924
PCB2	R6012	CARBON R	R16J-3.9K	1	417343924
PCB2	R6013	CARBON R	R16J-3.9K	1	417343924
PCB2	R6014	CARBON R	R16J-3.9K	1	417343924
PCB2	R6020	NF CARBON R	R25J-2.2	1	415470224
PCB2	R6021	NF CARBON R	R25J-2.2	1	415470224
PCB2	R6022	NF CARBON R	R25J-2.2	1	415470224
PCB2	R6023	NF CARBON R	R25J-2.2	1	415470224
PCB2	R6024	NF CARBON R	R25J-2.2	1	415470224
PCB2	R6030	CARBON R	R16J-470	1	417344714

PCB2	R6031	CARBON R	R16J-470	1	417344714
PCB2	R6032	CARBON R	R16J-470	1	417344714
PCB2	R6033	CARBON R	R16J-470	1	417344714
PCB2	R6034	CARBON R	R16J-470	1	417344714
PCB2	R6040	TRIM R	N06HR2KBC	1	5210390
PCB2	R6041	TRIM R	N06HR2KBC	1	5210390
PCB2	R6042	TRIM R	N06HR2KBC	1	5210390
PCB2	R6043	TRIM R	N06HR2KBC	1	5210390
PCB2	R6044	TRIM R	N06HR2KBC	1	5210390
PCB2	R6050	CARBON R	R16J-3.3K	1	417343324
PCB2	R6051	CARBON R	R16J-3.3K	1	417343324
PCB2	R6052	CARBON R	R16J-3.3K	1	417343324
PCB2	R6053	CARBON R	R16J-3.3K	1	417343324
PCB2	R6054	CARBON R	R16J-3.3K	1	417343324
PCB2	R6070	NF CARBON R	R25J-82	1	415478204
PCB2	R6071	NF CARBON R	R25J-82	1	415478204
PCB2	R6072	NF CARBON R	R25J-82	1	415478204
PCB2	R6073	NF CARBON R	R25J-120	1	415471214
PCB2	R6074	NF CARBON R	R25J-120	1	415471214
PCB2	R6080	CARBON R	R25J-0.22	1	415472294
PCB2	R6081	CARBON R	R25J-0.22	1	415472294
PCB2	R6082	CARBON R	R25J-0.22	1	415472294
PCB2	R6083	CARBON R	R25J-0.22	1	415472294
PCB2	R6084	CARBON R	R25J-0.22	1	415472294
PCB2	R6090	CARBON R	R25J-0.22	1	415472294
PCB2	R6091	CARBON R	R25J-0.22	1	415472294
PCB2	R6092	CARBON R	R25J-0.22	1	415472294
PCB2	R6093	CARBON R	R25J-0.22	1	415472294
PCB2	R6094	CARBON R	R25J-0.22	1	415472294
PCB2	R6100	CEMENT R	RSS2WK-0.22	1	4800071
PCB2	R6100 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PCB2	R6100 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PCB2	R6101	CEMENT R	RSS2WK-0.22	1	4800071
PCB2	R6101 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PCB2	R6101 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PCB2	R6102	CEMENT R	RSS2WK-0.22	1	4800071
PCB2	R6102 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PCB2	R6102 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PCB2	R6103	CEMENT R	RSS2WK-0.22	1	4800071
PCB2	R6103 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PCB2	R6103 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PCB2	R6104	CEMENT R	RSS2WK-0.22	1	4800071
PCB2	R6104 or	METAL PR	MPC708-2WK-0.22	(1)	4500027
PCB2	R6104 or	OTHER R	RGC22-0.22 OHMK	(1)	4000131
PCB2	R6140	CARBON R	R16J-22K	1	417342234
PCB2	R6141	CARBON R	R16J-22K	1	417342234
PCB2	R6142	CARBON R	R16J-22K	1	417342234
PCB2	R6143	CARBON R	R16J-22K	1	417342234
PCB2	R6144	CARBON R	R16J-22K	1	417342234
PCB2	R6150	CARBON R	R16J-12K	1	417341234
PCB2	R6151	CARBON R	R16J-12K	1	417341234
PCB2	R6152	CARBON R	R16J-12K	1	417341234
PCB2	R6153	CARBON R	R16J-12K	1	417341234
PCB2	R6154	CARBON R	R16J-12K	1	417341234
PCB2	R6160	CARBON R	R16J-33K	1	417343334
PCB2	R6161	CARBON R	R16J-33K	1	417343334
PCB2	R6162	CARBON R	R16J-33K	1	417343334
PCB2	R6163	CARBON R	R16J-33K	1	417343334
PCB2	R6164	CARBON R	R16J-33K	1	417343334
PCB2	R6170	CARBON R	R16J-47K	1	417344734
PCB2	R6171	CARBON R	R16J-47K	1	417344734
PCB2	R6172	CARBON R	R16J-47K	1	417344734
PCB2	R6173	CARBON R	R16J-47K	1	417344734
PCB2	R6174	CARBON R	R16J-47K	1	417344734
PCB2	R6180	CARBON R	R16J-47K	1	417344734
PCB2	R6181	CARBON R	R16J-47K	1	417344734
PCB2	R6182	CARBON R	R16J-47K	1	417344734
PCB2	R6183	CARBON R	R16J-47K	1	417344734
PCB2	R6184	CARBON R	R16J-47K	1	417344734
PCB2	R6190	CARBON R	R16J-220K	1	417342244
PCB2	R6191	CARBON R	R16J-220K	1	417342244
PCB2	R6192	CARBON R	R16J-220K	1	417342244
PCB2	R6193	CARBON R	R16J-220K	1	417342244
PCB2	R6194	CARBON R	R16J-220K	1	417342244
PCB2	R6230	METAL R	RNU1WCJ-8.2	1	453630824
PCB2	R6231	METAL R	RNU1WCJ-8.2	1	453630824

PCB2	R6232	METAL R	RNU1WCJ-8.2	1	453630824	
PCB2	R6233	METAL R	RNU1WCJ-8.2	1	453630824	
PCB2	R6234	METAL R	RNU1WCJ-8.2	1	453630824	
PCB2	R6701	CARBON R	R16J-22K	1	417342234	
PCB2	R6702	CARBON R	R16J-10K	1	417341034	
PCB2	R6704	CARBON R	R16J-47K	1	417344734	
PCB2	R6706	CARBON R	R16J-220K	1	417342244	
PCB2	R6708	CARBON R	R16J-33K	1	417343334	
PCB2	R6709	CARBON R	R16J-5.6K	1	417345624	
PCB2	R6710	CARBON R	R16J-100K	1	417341044	
PCB2	R6750	METAL O R	RS1/2WBJ-390	1	443523914	
PCB2	R6751	METAL O R	RS1/2WBJ-390	1	443523914	
PCB2	R6901	METAL O R	RS1/2WBJ-10	1	443521004	
PCB2	R6902	CARBON R	R16J-1K	1	417341024	
PCB2	RL6901	RELAY SW	NRL-1P5A-DC12-102	1	25065526	
PCB2	RL6901 or	RELAY	NRL-1P5A-DC12-127	( 1)	25065561	
PCB2	RL6902	RELAY SW	NRL-1P5A-DC12-102	1	25065526	
PCB2	RL6902 or	RELAY	NRL-1P5A-DC12-127	( 1)	25065561	
PCB2	F6901A	FUSE HOL	NSCT-1P2031	1	25052133	!
PCB2	F6901B	FUSE HOL	NSCT-1P2031	1	25052133	!
PCB2	F6902A	FUSE HOL	NSCT-1P2031	1	25052133	!
PCB2	F6902B	FUSE HOL	NSCT-1P2031	1	25052133	!
PCB2	P301	PLUG	NPLG-10P0965	1	25056015	
PCB2	P302	PLUG	NPLG-20P0975	1	25056025	
PCB2	P303	PLUG	NPLG-20P0975	1	25056025	
PCB2	P311B	PLUG	NPLG-10P138	1	25055154	
PCB2	P5504	SOCKET AS	NSAS-26P1494	1	2009990954UL	
PCB2	P5504 or	SOCKET AS	NSAS-26P1527	( 1)	2009990966UL	
PCB2	P5505	TRM(SCREW)	NEGITANSI M3	1	25065425	
PCB2	P6000B	PLUG	NPLG-5P0960	1	25056010	
PCB2	P6001B	PLUG	NPLG-5P0960	1	25056010	
PCB2	P6002B	PLUG	NPLG-5P0960	1	25056010	
PCB2	P6003B	PLUG	NPLG-5P0960	1	25056010	
PCB2	P6004B	PLUG	NPLG-5P0960	1	25056010	
PCB2	P6011C	TRM	NTM-1P232(M1700)	1	25060301	
PCB2	P6080	PLUG	NPLG-2P29	1	25055038	
PCB2	P6081	PLUG	NPLG-2P29	1	25055038	
PCB2	P6082	PLUG	NPLG-2P29	1	25055038	
PCB2	P6083	PLUG	NPLG-2P29	1	25055038	
PCB2	P6084	PLUG	NPLG-2P29	1	25055038	
PCB2	P6380	RETAINER	(PTH)	1	27141884-1	
PCB2	P6380 or	RETAINER	(PTH)	( 1)	27141884	
PCB2	P6844	WS CLAMP	CB-71683(L=50)	1	260261	
PCB2	P6845	WS CLAMP	CB-71683(L=50)	1	260261	
PCB2	P6849	WS CLAMP	CB-71683(L=50)	1	260261	
PCB2	P6850	HOLDER	HOLDER(CLAMP)	1	27190540-1	
PCB2	P6851	HOLDER	HOLDER(CLAMP)	1	27190540-1	
PCB2	P6906	TRM(SCREW)	NEGITANSI M3	1	25065425	
PCB2	P7902	PIN JACK	NPJ-6PDWWWRRR561	1	25045779	
PCB2	P7902 or	PIN JACK	NPJ-6PDBL159	( 1)	25045300	
PCB2	P7903	PIN JACK	NPJ-4PDWRRR624	1	25045845	
PCB2	P7903 or	PIN JACK	NPJ-4PDBL162	( 1)	25045303	
PCB2	P7904	PIN JACK	NPJ-4PDWRRR624	1	25045845	
PCB2	P7904 or	PIN JACK	NPJ-4PDBL162	( 1)	25045303	
PCB2	P7905	PIN JACK	NPJ-6PDWLGREP562	1	25045780	
PCB2	P7905 or	PIN JACK	NPJ-6PWRLGGP493	( 1)	25045697	
PCB2	P7907	PIN JACK	NPJ-1PDP555	1	25045773	
PCB2	P7907 or	PIN JACK	NPJ-1PDP510	( 1)	25045720	
PCB2	P9502	SOCKET	14PK-FJ	1	25053058	
PCB2	E301A	TRM	NTM-1P232(M1700)	1	25060301	
PCB2	J010	CRIMP AS	CRIMP AS	1	2069925226UL	
PCB2	J011	CRIMP AS	CRIMP AS	1	2069925153UL	
PCB2	JL5501	IMP LEAD	JL12 300 B	1	2J300606B15	
PCB2	JL5501A	WIRE HOL	NSCT-12P883	1	25051096	
PCB2	JL5501B	WIRE HOL	NSCT-12P883	1	25051096	
PCB2	JL6402A	WIRE HOL	NSCT-3P874	1	25051087	
PCB2	JL6402B	WIRE HOL	NSCT-3P874	1	25051087	
PCB2	JL6600A	WIRE HOL	NSCT-7P898	1	25051111	
PCB2	JL6603A	WIRE HOL	NSCT-9P900	1	25051113	
PCB2	JL6951A	WIRE HOL	NSCT-5P896	1	25051109	
PCB2	JL6951B	WIRE HOL	NSCT-5P896	1	25051109	
PCB2	JL6952A	WIRE HOL	NSCT-5P896	1	25051109	
PCB2	JL6952B	WIRE HOL	NSCT-5P896	1	25051109	
PCB2	JL891B	SOCKET	NSCT-5P97	1	25050269	

<b>U13</b>	<b>POWER SUPPLY-2 PC BOARD (NAPS-8546-1A/1J)</b>
<b>U14</b>	<b>SEC. TERMINAL-1 PC BOARD (NAPS-8547-1A/1J)</b>
<b>U15</b>	<b>SPEAKER TERMINAL PC BOARD (NAETC-8548-1A/1J)</b>
<b>U16</b>	<b>VIDEO PC BOARD (NAVD-8549-1A/1J)</b>
<b>U17</b>	<b>DRIVER AMPLIFIER PC BOARD (NAAF-8550-1A/1J)</b>

	CIRCUIT N	NAME	DESCRIPTION	Q'TY	PART NO	REMARKS
PCB3	Q1001	TR	RN1241-A	1	2213631	
PCB3	Q1001 or	TR	RN1241-B	(1)	2213632	
PCB3	Q1002	TR	RN1241-A	1	2213631	
PCB3	Q1002 or	TR	RN1241-B	(1)	2213632	
PCB3	Q1003	IC	LA7956	1	22241759	
PCB3	Q1004	TR	2SA933S-R	1	2213354	
PCB3	Q1004 or	TR	2SA933S-S	(1)	2213355	
PCB3	Q1004 or	TR	KTA1267-GR	(1)	2215995	
PCB3	Q1005	TR	DTA114ES	1	2213510	
PCB3	Q1005 or	TR	KRA102M	(1)	2215770	
PCB3	Q1006	TR	DTA114ES	1	2213510	
PCB3	Q1006 or	TR	KRA102M	(1)	2215770	
PCB3	Q1015	TR	RN1241-A	1	2213631	
PCB3	Q1015 or	TR	RN1241-B	(1)	2213632	
PCB3	Q1016	TR	RN1241-A	1	2213631	
PCB3	Q1016 or	TR	RN1241-B	(1)	2213632	
PCB3	Q1018	TR	RN1241-A	1	2213631	
PCB3	Q1018 or	TR	RN1241-B	(1)	2213632	
PCB3	Q5000	TR	2SC2240-BL	1	2211406	
PCB3	Q5001	TR	2SC2240-BL	1	2211406	
PCB3	Q5002	TR	2SC2240-BL	1	2211406	
PCB3	Q5003	TR	2SC2240-BL	1	2211406	
PCB3	Q5003 or	TR	KTC3200-BL	(1)	2215896	
PCB3	Q5004	TR	2SC2240-BL	1	2211406	
PCB3	Q5004 or	TR	KTC3200-BL	(1)	2215896	
PCB3	Q5010	TR	2SC2240-BL	1	2211406	
PCB3	Q5011	TR	2SC2240-BL	1	2211406	
PCB3	Q5012	TR	2SC2240-BL	1	2211406	
PCB3	Q5013	TR	2SC2240-BL	1	2211406	
PCB3	Q5013 or	TR	KTC3200-BL	(1)	2215896	
PCB3	Q5014	TR	2SC2240-BL	1	2211406	
PCB3	Q5014 or	TR	KTC3200-BL	(1)	2215896	
PCB3	Q5030	TR	2SA949-Y	1	2211354	
PCB3	Q5031	TR	2SA949-Y	1	2211354	
PCB3	Q5032	TR	2SA949-Y	1	2211354	
PCB3	Q5033	TR	2SA949-Y	1	2211354	
PCB3	Q5034	TR	2SA949-Y	1	2211354	
PCB3	Q5040	TR	2SC2229-Y	1	2211634	
PCB3	Q5041	TR	2SC2229-Y	1	2211634	
PCB3	Q5042	TR	2SC2229-Y	1	2211634	
PCB3	Q5043	TR	2SC2229-Y	1	2211634	
PCB3	Q5044	TR	2SC2229-Y	1	2211634	
PCB3	Q5050	TR	2SC1815-GR	1	2211255	
PCB3	Q5050 or	TR	2SC1815-BL	(1)	2211256	
PCB3	Q5051	TR	2SC1815-GR	1	2211255	
PCB3	Q5051 or	TR	2SC1815-BL	(1)	2211256	
PCB3	Q5052	TR	2SC1815-GR	1	2211255	
PCB3	Q5052 or	TR	2SC1815-BL	(1)	2211256	
PCB3	Q5053	TR	2SC1815-GR	1	2211255	
PCB3	Q5053 or	TR	2SC1815-BL	(1)	2211256	
PCB3	Q5054	TR	2SC1815-GR	1	2211255	
PCB3	Q5054 or	TR	2SC1815-BL	(1)	2211256	
PCB3	Q9002	TR	KTA1268-GR	1	2215885	
PCB3	Q9002 or	TR	KTA1268-BL	(1)	2215886	
PCB3	Q9002 or	TR	2SA970-GR	(1)	2211395	
PCB3	Q9002 or	TR	2SA970-BL	(1)	2211396	
PCB3	Q921	TR	2SC2458-GR	1	2212115	
PCB3	Q921 or	TR	2SC2458-BL	(1)	2212116	
PCB3	Q921 or	TR	KTC3199-GR	(1)	2215864	
PCB3	D1001	DIODE	1SS133(DS)	1	223280	
PCB3	D1001 or	DIODE	1SS133	(1)	223163	
PCB3	D1001 or	DIODE	1SS270A	(1)	223205	
PCB3	D1002	DIODE	1SS133(DS)	1	223280	
PCB3	D1002 or	DIODE	1SS133	(1)	223163	
PCB3	D1002 or	DIODE	1SS270A	(1)	223205	
PCB3	D5000	ZENER D	DZ-5.6BSB	1	224850562	
PCB3	D5000 or	ZENER D	MTZJ5.6B	(1)	224470562	
PCB3	D5001	ZENER D	DZ-5.6BSB	1	224850562	
PCB3	D5001 or	ZENER D	MTZJ5.6B	(1)	224470562	

PCB3	D5002	ZENER D	DZ-5.6BSB	1	224850562	
PCB3	D5002 or	ZENER D	MTZJ5.6B	(1)	224470562	
PCB3	D5003	ZENER D	DZ-5.6BSB	1	224850562	
PCB3	D5003 or	ZENER D	MTZJ5.6B	(1)	224470562	
PCB3	D5004	ZENER D	DZ-5.6BSB	1	224850562	
PCB3	D5004 or	ZENER D	MTZJ5.6B	(1)	224470562	
PCB3	D6600	DIODE	1SS133(DS)	1	223280	
PCB3	D6600 or	DIODE	1SS133	(1)	223163	
PCB3	D6600 or	DIODE	1SS270A	(1)	223205	
PCB3	D6602	DIODE	1SS133(DS)	1	223280	
PCB3	D6602 or	DIODE	1SS133	(1)	223163	
PCB3	D6602 or	DIODE	1SS270A	(1)	223205	
PCB3	D6603	DIODE	1SS133(DS)	1	223280	
PCB3	D6603 or	DIODE	1SS133	(1)	223163	
PCB3	D6603 or	DIODE	1SS270A	(1)	223205	
PCB3	D6607	DIODE	1SS133(DS)	1	223280	
PCB3	D6607 or	DIODE	1SS133	(1)	223163	
PCB3	D6607 or	DIODE	1SS270A	(1)	223205	
PCB3	D9001	DIODE	RL1N4003	1	22380260	
PCB3	D9001 or	DIODE	GP104003E	(1)	22380035	
PCB3	D9002	DIODE	RL1N4003	1	22380260	
PCB3	D9002 or	DIODE	GP104003E	(1)	22380035	
PCB3	D9003	DIODE	RL1N4003	1	22380260	
PCB3	D9003 or	DIODE	GP104003E	(1)	22380035	
PCB3	D9004	DIODE	RL1N4003	1	22380260	
PCB3	D9004 or	DIODE	GP104003E	(1)	22380035	
PCB3	D9009	DIODE	RL1N4003	1	22380260	
PCB3	D9009 or	DIODE	GP104003E	(1)	22380035	
PCB3	D9012	ZENER D	DZ-3.6BSD	1	224853604	
PCB3	D9012 or	ZENER D	MTZJ36D	(1)	224473604	
PCB3	D9013	DIODE	RL1N4003	1	22380260	
PCB3	D9013 or	DIODE	GP104003E	(1)	22380035	
PCB3	D921	DIODE	1SS133(DS)	1	223280	
PCB3	D921 or	DIODE	1SS133	(1)	223163	
PCB3	D921 or	DIODE	1SS270A	(1)	223205	
PCB3	D922	DIODE	1SS133(DS)	1	223280	
PCB3	D922 or	DIODE	1SS133	(1)	223163	
PCB3	D922 or	DIODE	1SS270A	(1)	223205	
PCB3	D923	DIODE	1SS133(DS)	1	223280	
PCB3	D923 or	DIODE	1SS133	(1)	223163	
PCB3	D923 or	DIODE	1SS270A	(1)	223205	
PCB3	D924	DIODE	1SS133(DS)	1	223280	
PCB3	D924 or	DIODE	1SS133	(1)	223163	
PCB3	D924 or	DIODE	1SS270A	(1)	223205	
PCB3	D925	DIODE	1SS133(DS)	1	223280	
PCB3	D925 or	DIODE	1SS133	(1)	223163	
PCB3	D925 or	DIODE	1SS270A	(1)	223205	
PCB3	D930	DIODE	1SS133(DS)	1	223280	
PCB3	D930 or	DIODE	1SS133	(1)	223163	
PCB3	D930 or	DIODE	1SS270A	(1)	223205	
PCB3	D931	DIODE	1SS133(DS)	1	223280	
PCB3	D931 or	DIODE	1SS133	(1)	223163	
PCB3	D931 or	DIODE	1SS270A	(1)	223205	
PCB3	D932	DIODE	1SS133(DS)	1	223280	
PCB3	D932 or	DIODE	1SS133	(1)	223163	
PCB3	D932 or	DIODE	1SS270A	(1)	223205	
PCB3	D933	DIODE	1SS133(DS)	1	223280	
PCB3	D933 or	DIODE	1SS133	(1)	223163	
PCB3	D933 or	DIODE	1SS270A	(1)	223205	
PCB3	D934	ZENER D	DZ-5.1BSB	1	224850512	
PCB3	D934 or	ZENER D	MTZJ5.1B	(1)	224470512	
PCB3	D935	DIODE	1SS133(DS)	1	223280	
PCB3	D935 or	DIODE	1SS133	(1)	223163	
PCB3	D935 or	DIODE	1SS270A	(1)	223205	
PCB3	D9705	DIODE	1SS133(DS)	1	223280	
PCB3	D9705 or	DIODE	1SS133	(1)	223163	
PCB3	D9705 or	DIODE	1SS270A	(1)	223205	
PCB3	D9706	DIODE	1SS133(DS)	1	223280	
PCB3	D9706 or	DIODE	1SS133	(1)	223163	
PCB3	D9706 or	DIODE	1SS270A	(1)	223205	
PCB3	T902	P TRANS	NPT-1520JQ	1	2301812	!, <303>
PCB3	T902	P TRANS	NPT-1519GQ	1	2301811	!, <303E>
PCB3	L6600	S COIL	S-1.3C	1	231176S	<303E>
PCB3	L6601	S COIL	S-1.3C	1	231176S	<303E>
PCB3	L6602	S COIL	S-1.3C	1	231176S	<303E>
PCB3	L6603	S COIL	S-1.3C	1	231176S	<303E>

PCB3	L6604	S COIL	S-1.3C	1	231176S	<303E>
PCB3	C1001	VR C	CE04W50V-2.2M(VR)	1	394680227	
PCB3	C1002	VR C	CE04W50V-2.2M(VR)	1	394680227	
PCB3	C1003	VR C	CE04W16V-470M(VR)	1	394644717	
PCB3	C1004	VR C	CE04W50V-2.2M(VR)	1	394680227	
PCB3	C1005	VR C	CE04W16V-470M(VR)	1	394644717	
PCB3	C1017	VR C	CE04W50V-2.2M(VR)	1	394680227	
PCB3	C1020	CERA C	CK45F50V-223Z	1	335622230	
PCB3	C1023	VR C	CE04W25V-47M(VR)	1	394654707	
PCB3	C1024	CERA C	CK45F50V-223Z	1	335622230	
PCB3	C1032	CERA C	CK45F50V-223Z	1	335622230	
PCB3	C5000	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5001	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5002	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5003	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5004	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5010	VX C	CE04W50V-47M(VX)	1	393384707	
PCB3	C5011	VX C	CE04W50V-47M(VX)	1	393384707	
PCB3	C5012	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C5013	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C5014	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C5020	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C5021	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C5022	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C5023	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C5024	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C5040	VX C	CE04W25V-220M(VX)	1	393352217	
PCB3	C5041	VX C	CE04W25V-220M(VX)	1	393352217	
PCB3	C5042	VX C	CE04W25V-220M(VX)	1	393352217	
PCB3	C5043	VX C	CE04W25V-220M(VX)	1	393352217	
PCB3	C5044	VX C	CE04W25V-220M(VX)	1	393352217	
PCB3	C5050	VX C	CE04W50V-47M(VX)	1	393384707	
PCB3	C5051	VX C	CE04W50V-47M(VX)	1	393384707	
PCB3	C5052	VX C	CE04W50V-47M(VX)	1	393384707	
PCB3	C5053	VX C	CE04W50V-47M(VX)	1	393384707	
PCB3	C5054	VX C	CE04W50V-47M(VX)	1	393384707	
PCB3	C5080	CERA C	CC45SL50V-040C	1	345020401	
PCB3	C5081	CERA C	CC45SL50V-040C	1	345020401	
PCB3	C5082	CERA C	CC45SL50V-040C	1	345020401	
PCB3	C5083	CERA C	CC45SL50V-040C	1	345020401	
PCB3	C5084	CERA C	CC45SL50V-040C	1	345020401	
PCB3	C5090	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5091	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5092	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5093	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5094	TF C	ECQ-B50V-101K	1	374721015	
PCB3	C5100	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5101	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5102	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5103	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5104	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5110	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5111	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5112	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5113	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C5114	VR C	CE04W63V-10M(VR)	1	394671007	
PCB3	C6600	TF C	ECQ-B50V-103J	1	374721034	
PCB3	C6602	TF C	ECQ-B50V-103J	1	374721034	
PCB3	C6603	CERA C	CK45F50V-103Z	1	335621030	
PCB3	C6607	CERA C	CK45F50V-103Z	1	335621030	
PCB3	C6640	TF C	ECQ-B50V-103J	1	374721034	<303E>
PCB3	C6641	TF C	ECQ-B50V-103J	1	374721034	<303E>
PCB3	C6642	TF C	ECQ-B50V-103J	1	374721034	<303E>
PCB3	C6643	TF C	ECQ-B50V-103J	1	374721034	<303E>
PCB3	C6644	TF C	ECQ-B50V-103J	1	374721034	<303E>
PCB3	C6647	TF C	ECQ-B50V-103J	1	374721034	<303E>
PCB3	C6648	TF C	ECQ-B50V-103J	1	374721034	<303E>
PCB3	C6650	CERA C	CK45B50V-102K	1	335321025	<303E>
PCB3	C6651	CERA C	CK45B50V-102K	1	335321025	<303E>
PCB3	C6652	CERA C	CK45B50V-102K	1	335321025	<303E>
PCB3	C6653	CERA C	CK45B50V-102K	1	335321025	<303E>
PCB3	C6654	CERA C	CK45B50V-102K	1	335321025	<303E>
PCB3	C6657	CERA C	CK45B50V-102K	1	335321025	<303E>
PCB3	C6658	CERA C	CK45B50V-102K	1	335321025	<303E>
PCB3	C9001	MMT C	MMT50V-334J	1	375523344	
PCB3	C9003	VR C	CE04W35V-1000M(VR)	1	394661027	



PCB3	C9004	VR C	CE04W35V-470M(VR)	1	394664717	
PCB3	C9009	VR C	CE04W35V-220M(VR)	1	394662217	
PCB3	C901	IS C	ECQU2A103MLC	1	3800039	
PCB3	C901 or	IS C	RE275V-103M	( 1)	3500196S	
PCB3	C901 or	IS C	LE103-C3.5	( 1)	3800042S	
PCB3	C9014	VR C	CE04W63V-470M(VR)	1	394674717	
PCB3	C9015	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C9016	VX C	CE04W50V-10M(VX)	1	393381007	
PCB3	C921	CERA C	CK45F50V-223Z	1	335622230	
PCB3	C922	VR C	CE04W25V-2200M(VR)	1	394652227	<303>
PCB3	C922	VR C	CE04W16V-2200M(VR)	1	394642227	<303E>
PCB3	C930	VR C	CE04W35V-100M(VR)	1	394661017	
PCB3	C933	VR C	CE04W50V-4.7M(VR)	1	394680477	
PCB3	C9591	MMT C	MMT50V-104J	1	375521044	
PCB3	C9708	CERA C	CK45B50V-222K	1	335322225	
PCB3	R1001	CARBON R	R16J-75	1	417347504	
PCB3	R1002	CARBON R	R16J-75	1	417347504	
PCB3	R1003	CARBON R	R16J-75	1	417347504	
PCB3	R1004	CARBON R	R16J-100K	1	417341044	
PCB3	R1005	CARBON R	R16J-75	1	417347504	
PCB3	R1006	CARBON R	R16J-75	1	417347504	
PCB3	R1007	CARBON R	R16J-680K	1	417346844	
PCB3	R1008	CARBON R	R16J-680K	1	417346844	
PCB3	R1009	CARBON R	R16J-680K	1	417346844	
PCB3	R1010	CARBON R	R16J-220	1	417342214	
PCB3	R1023	CARBON R	R16J-100K	1	417341044	
PCB3	R1024	CARBON R	R16J-100K	1	417341044	
PCB3	R1030	CARBON R	R16J-680K	1	417346844	
PCB3	R1031	CARBON R	R16J-75	1	417347504	
PCB3	R5000	CARBON R	R16J-1K	1	417341024	
PCB3	R5001	CARBON R	R16J-1K	1	417341024	
PCB3	R5002	CARBON R	R16J-1K	1	417341024	
PCB3	R5003	CARBON R	R16J-1K	1	417341024	
PCB3	R5004	CARBON R	R16J-1K	1	417341024	
PCB3	R5010	CARBON R	R16J-56K	1	417345634	
PCB3	R5011	CARBON R	R16J-56K	1	417345634	
PCB3	R5012	CARBON R	R16J-56K	1	417345634	
PCB3	R5013	CARBON R	R16J-56K	1	417345634	
PCB3	R5014	CARBON R	R16J-56K	1	417345634	
PCB3	R5020	CARBON R	R16J-330	1	417343314	
PCB3	R5021	CARBON R	R16J-330	1	417343314	
PCB3	R5022	CARBON R	R16J-330	1	417343314	
PCB3	R5023	CARBON R	R16J-330	1	417343314	
PCB3	R5024	CARBON R	R16J-330	1	417343314	
PCB3	R5030	CARBON R	R16J-120K	1	417341244	
PCB3	R5031	CARBON R	R16J-120K	1	417341244	
PCB3	R5032	CARBON R	R16J-120K	1	417341244	
PCB3	R5033	CARBON R	R16J-120K	1	417341244	
PCB3	R5034	CARBON R	R16J-120K	1	417341244	
PCB3	R5040	CARBON R	R16J-2.2K	1	417342224	
PCB3	R5041	CARBON R	R16J-2.2K	1	417342224	
PCB3	R5042	CARBON R	R16J-2.2K	1	417342224	
PCB3	R5043	CARBON R	R16J-2.2K	1	417342224	
PCB3	R5044	CARBON R	R16J-2.2K	1	417342224	
PCB3	R5050	CARBON R	R16J-4.7K	1	417344724	
PCB3	R5051	CARBON R	R16J-4.7K	1	417344724	
PCB3	R5052	CARBON R	R16J-4.7K	1	417344724	
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PCB3	R5054	CARBON R	R16J-4.7K	1	417344724	
PCB3	R5060	CARBON R	R16J-1.2K	1	417341224	
PCB3	R5061	CARBON R	R16J-1.2K	1	417341224	
PCB3	R5062	CARBON R	R16J-1.2K	1	417341224	
PCB3	R5063	CARBON R	R16J-1.2K	1	417341224	
PCB3	R5064	CARBON R	R16J-1.2K	1	417341224	
PCB3	R5080	CARBON R	R16J-470	1	417344714	
PCB3	R5081	CARBON R	R16J-470	1	417344714	
PCB3	R5082	CARBON R	R16J-470	1	417344714	
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PCB3	R5091	CARBON R	R16J-100K	1	417341044	
PCB3	R5092	CARBON R	R16J-100K	1	417341044	
PCB3	R5093	CARBON R	R16J-100K	1	417341044	
PCB3	R5094	CARBON R	R16J-100K	1	417341044	
PCB3	R5100	CARBON R	R16J-100K	1	417341044	
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PCB3	R5102	CARBON R	R16J-100K	1	417341044	
PCB3	R5103	CARBON R	R16J-100K	1	417341044	
PCB3	R5104	CARBON R	R16J-100K	1	417341044	
PCB3	R5110	CARBON R	R16J-1K	1	417341024	
PCB3	R5111	CARBON R	R16J-1K	1	417341024	
PCB3	R5112	CARBON R	R16J-1K	1	417341024	
PCB3	R5113	CARBON R	R16J-1K	1	417341024	
PCB3	R5114	CARBON R	R16J-1K	1	417341024	
PCB3	R5130	CARBON R	R16J-22K	1	417342234	
PCB3	R5131	CARBON R	R16J-22K	1	417342234	
PCB3	R5132	CARBON R	R16J-18K	1	417341834	
PCB3	R5133	CARBON R	R16J-18K	1	417341834	
PCB3	R5134	CARBON R	R16J-18K	1	417341834	
PCB3	R5160	NF CARBON R	R25J-100	1	415471014	
PCB3	R5161	NF CARBON R	R25J-100	1	415471014	
PCB3	R5162	NF CARBON R	R25J-100	1	415471014	
PCB3	R5163	NF CARBON R	R25J-100	1	415471014	
PCB3	R5164	NF CARBON R	R25J-100	1	415471014	
PCB3	R5170	NF CARBON R	R25J-100	1	415471014	
PCB3	R5171	NF CARBON R	R25J-100	1	415471014	
PCB3	R5172	NF CARBON R	R25J-100	1	415471014	
PCB3	R5173	NF CARBON R	R25J-100	1	415471014	
PCB3	R5174	NF CARBON R	R25J-100	1	415471014	
PCB3	R5180	NF CARBON R	R25J-10	1	415471004	
PCB3	R5181	NF CARBON R	R25J-10	1	415471004	
PCB3	R5182	NF CARBON R	R25J-10	1	415471004	
PCB3	R5183	NF CARBON R	R25J-10	1	415471004	
PCB3	R5184	NF CARBON R	R25J-10	1	415471004	
PCB3	R5190	NF CARBON R	R25J-10	1	415471004	
PCB3	R5191	NF CARBON R	R25J-10	1	415471004	
PCB3	R5192	NF CARBON R	R25J-10	1	415471004	
PCB3	R5193	NF CARBON R	R25J-10	1	415471004	
PCB3	R5194	NF CARBON R	R25J-10	1	415471004	
PCB3	R5200	CARBON R	R16J-22K	1	417342234	
PCB3	R5201	CARBON R	R16J-22K	1	417342234	
PCB3	R5230	CARBON R	R16J-120K	1	417341244	
PCB3	R5231	CARBON R	R16J-120K	1	417341244	
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PCB3	R6690	METAL O R	RS1/2WBJ-10	1	443521004	
PCB3	R9002	METAL O R	RS1/2WBJ-22	1	443522204	
PCB3	R9003	CARBON R	R16J-8.2K	1	417348224	
PCB3	R9004	CARBON R	R16J-8.2K	1	417348224	
PCB3	R9005	CARBON R	R16J-330K	1	417343344	
PCB3	R922	CARBON R	R16J-10K	1	417341034	
PCB3	R923	CARBON R	R16J-1K	1	417341024	
PCB3	R934	CARBON R	R16J-100K	1	417341044	
PCB3	R9591	METAL R	RNU1/2WCJ-0.47	1	453534794	
PCB3	R9592	METAL R	RNU1/2WCJ-0.47	1	453534794	
PCB3	R9593	METAL R	RNU1/2WCJ-0.22	1	453532294	
PCB3	R9594	METAL R	RNU1/2WCJ-8.2	1	453530824	
PCB3	RL6600	RELAY	NRL-2P5A-DC24-158	1	25065618	
PCB3	RL6600 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
PCB3	RL6602	RELAY	NRL-2P5A-DC24-158	1	25065618	
PCB3	RL6602 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
PCB3	RL6603	RELAY	NRL-2P5A-DC24-158	1	25065618	
PCB3	RL6603 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
PCB3	RL6607	RELAY	NRL-2P5A-DC24-158	1	25065618	
PCB3	RL6607 or	RELAY	NRL-2P5A-DC24-129	(1)	25065563	
PCB3	RL901	RELAY	NRL-1P5A-DC9-179	1	25065669	
PCB3	F901A	FUSE HOL	NSCT-1P2031	1	25052133	!
PCB3	F901B	FUSE HOL	NSCT-1P2031	1	25052133	!
PCB3	P1001	PIN JACK	NPJ-3PDYYY560	1	25045778	
PCB3	P1001 or	PIN JACK	NPJ-3PDYE158	(1)	25045299	
PCB3	P1002	PIN JACK	NPJ-3PDYYY560	1	25045778	

PCB3	P1002 or	PIN JACK	NPJ-3PDYE158	( 1)	25045299
PCB3	P1088	TRM(SCREW)	NEGITANSI M3	1	25065425
PCB3	P1089	TRM(SCREW)	NEGITANSI M3	1	25065425
PCB3	P2005A	SOCKET	NSCT-13P2193	1	25052296
PCB3	P5019	TRM(SCREW)	NEGITANSI M3	1	25065425
PCB3	P5504A	PLUG	NPLG-13P141	1	25055157
PCB3	P6000A	SOCKET	NSCT-5P2185	1	25052288
PCB3	P6001A	SOCKET	NSCT-5P2185	1	25052288
PCB3	P6002A	SOCKET	NSCT-5P2185	1	25052288
PCB3	P6003A	SOCKET	NSCT-5P2185	1	25052288
PCB3	P6004A	SOCKET	NSCT-5P2185	1	25052288
PCB3	P6011B	RETAINER	(BUS)	1	27141965
PCB3	P6011C	TAPE	TAPE(CLOTH-16U)	1	29110083
PCB3	P6600	TRM	NTM-10PDML354	1	25060425
PCB3	P6600 or	TRM	NTM-10PDML363	( 1)	25060434
PCB3	P6607	TRM	NTM-4PDML357	1	25060428
PCB3	P6607 or	TRM	NTM-4PDML364	( 1)	25060435
PCB3	P6690	TRM(SCREW)	NEGITANSI M3	1	25065425
PCB3	P9002	TRM(SCREW)	NEGITANSI M3	1	25065425
PCB3	P901A	PLUG	NPLG-2P631	1	25055675
PCB3	P901A or	PLUG	1-1123724-2	( 1)	25056402
PCB3	P909	TRM(SCREW)	NEGITANSI M3	1	25065425
PCB3	P912	PLUG	NPLG-2P631	1	25055675
PCB3	P912 or	PLUG	1-1123724-2	( 1)	25056402
PCB3	P931A	PLUG	NPLG-5P0960	1	25056010
PCB3	P931B	SOCKET	NSCT-5P2185	1	25052288
PCB3	P9502A	PLUG	14R-FJ	1	25056566
PCB3	E9001	RETAINER	KANAGU	1	27141059
PCB3	JL2006A	WIRE HOL	NSCT-5P896	1	25051109
PCB3	JL2006B	SOCKET	NSCT-5P97	1	25050269
PCB3	JL6600B	SOCKET	NSCT-7P99	1	25050271
PCB3	JL6603B	SOCKET	NSCT-9P101	1	25050273
PCB3	JL9501A	WIRE HOL	NSCT-7P898	1	25051111
PCB3	JL9501B	WIRE HOL	NSCT-7P898	1	25051111

## TX-SR303/303E

## PACKING PROCEDURE PARTS LIST

REF. NO.	NAME	DESCRIPTION	Q'TY	PART NO	REMARKS
PKG	A601	PAD	AS	29092259A	
PKG	A610	POLY BAG	POLY BAG(850x650)	29100034-1A	
PKG	A611	SHEET	---	29095906	
PKG	A613	TAPE	NITTO NO.29	29110149	
PKG	A615	PP TAPE	W48 OPP TAPE	29110148	
PKG	A618	POLY BAG	250x300xW300	29100218A	<303E>
PKG	A625	POLY BAG	350x250	29100097-1A	
PKG	A635	LABEL	(SP CABLE)	29363059A	
PKG	A650	CARTON	---	29054343	<303>
PKG	A650	CARTON	---	29054372	<303E>
PKG	A655	UPC LABEL	---	29364079	<303>
PKG	A655	EAN LABEL	---	29364163	<303E>
PKG	A801	INS MANUAL	En(TX-SR303)	29343953A	
PKG	A802	INS MANUAL	En-Dig(TX-SR303)	29343969	<303>
PKG	A805	INS MANUAL	U2FrEs(TX-SR303/303E)	29344049	<303E>
PKG	A806	INS MANUAL	U2DelT(TX-SR303/303E)	29344050	<303E>
PKG	A807	INS MANUAL	U2NISv(TX-SR303/303E)	29344051	<303E>
PKG	A811	REMO CON	RC-605S	24140605	
PKG	A812	BATTERY	R6/AA(UM-3)	3010054	
PKG	A820	ANT COIL	NMA-3057	232140	
PKG	A821	FM ANT AS	D	292142	<303>
PKG	A821	FM ANT AS	Type W	292191	<303E>
PKG	A845	WRNTY CARD	(ONKYO)	29365090C	<303>