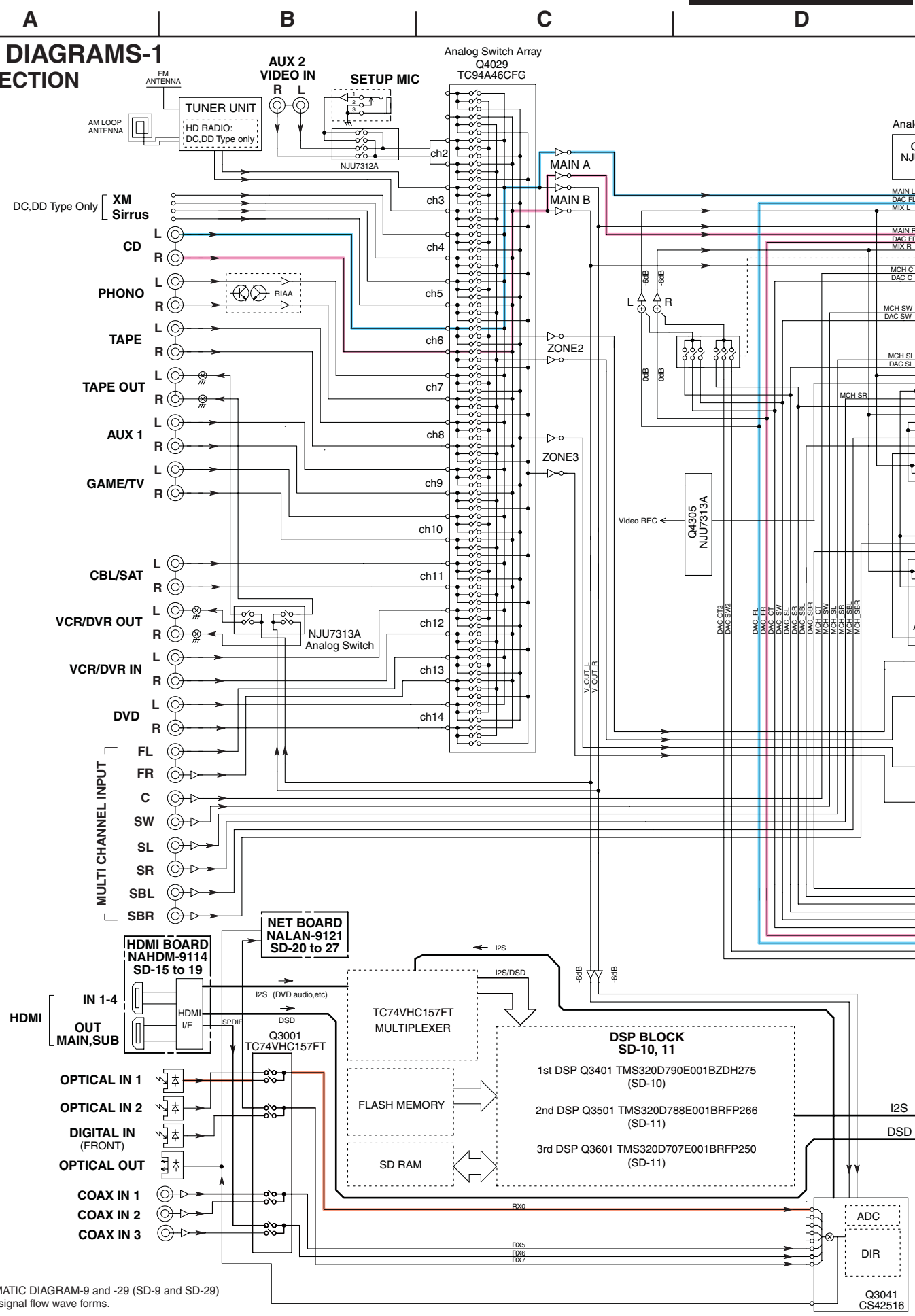
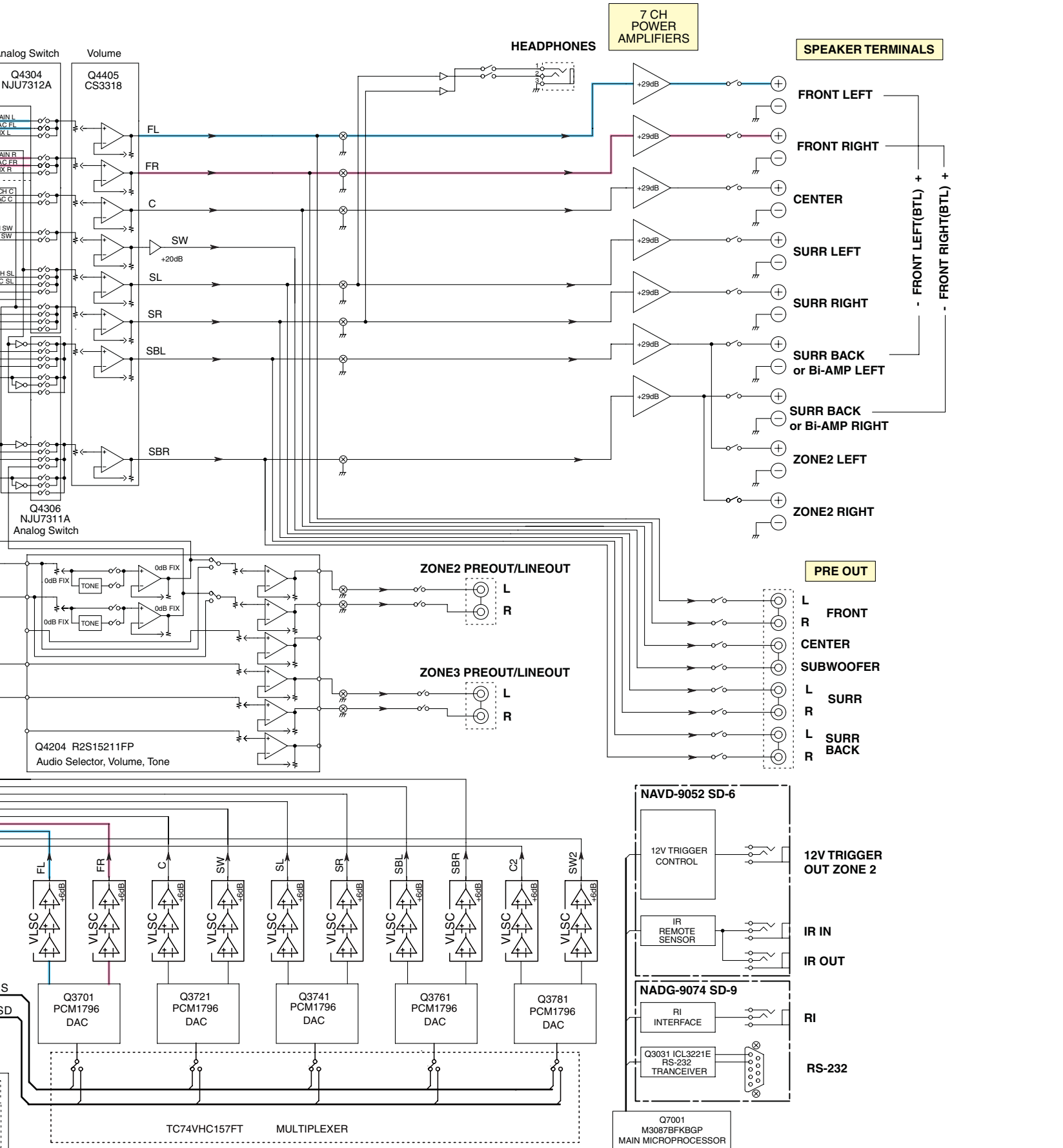


BLOCK DIAGRAMS-1
AUDIO SECTION

1
2
3
4
5

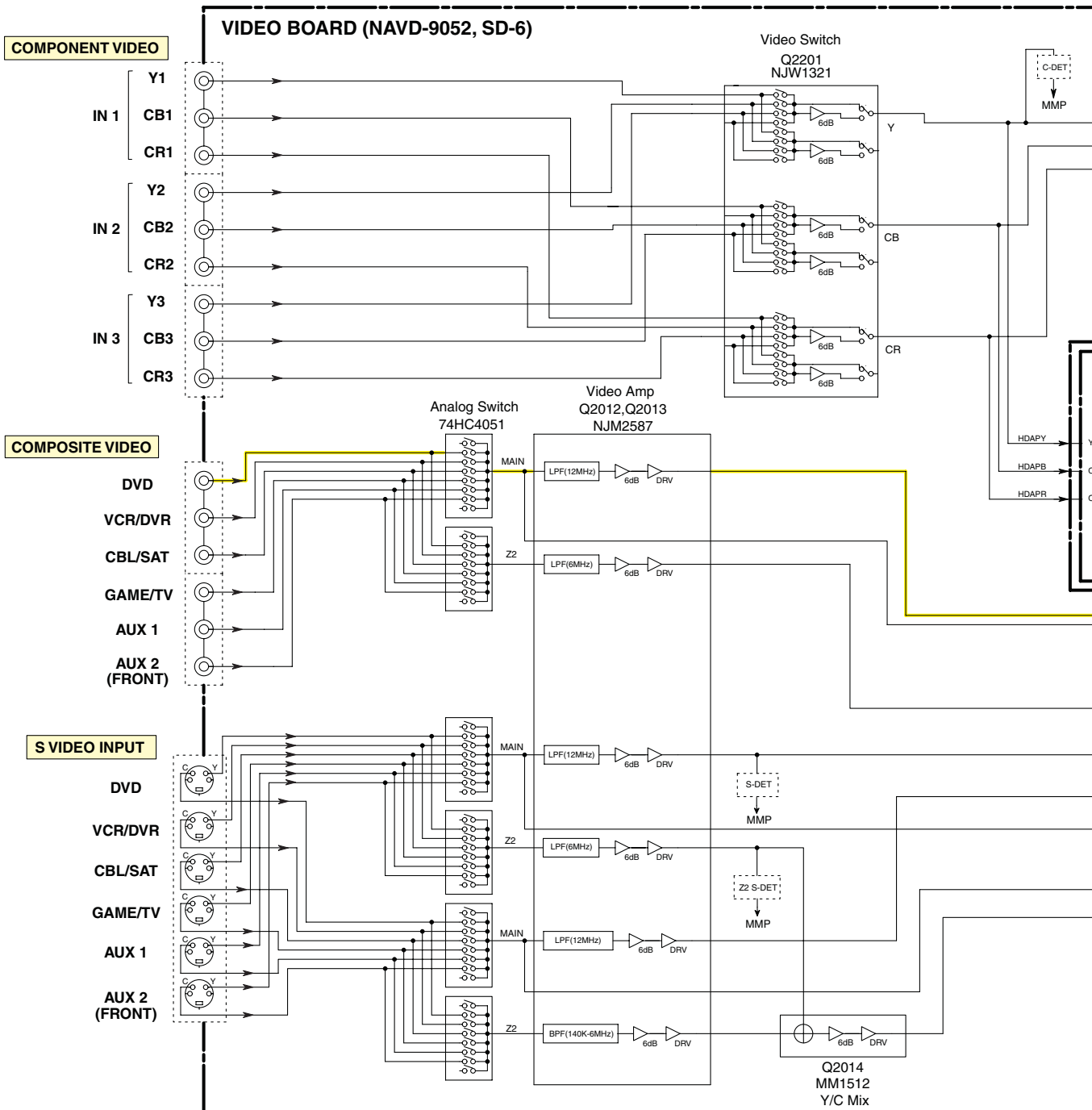


<Note>
Refer to SCHEMATIC DIAGRAM-9 and -29 (SD-9 and SD-29)
for digital audio signal flow wave forms.



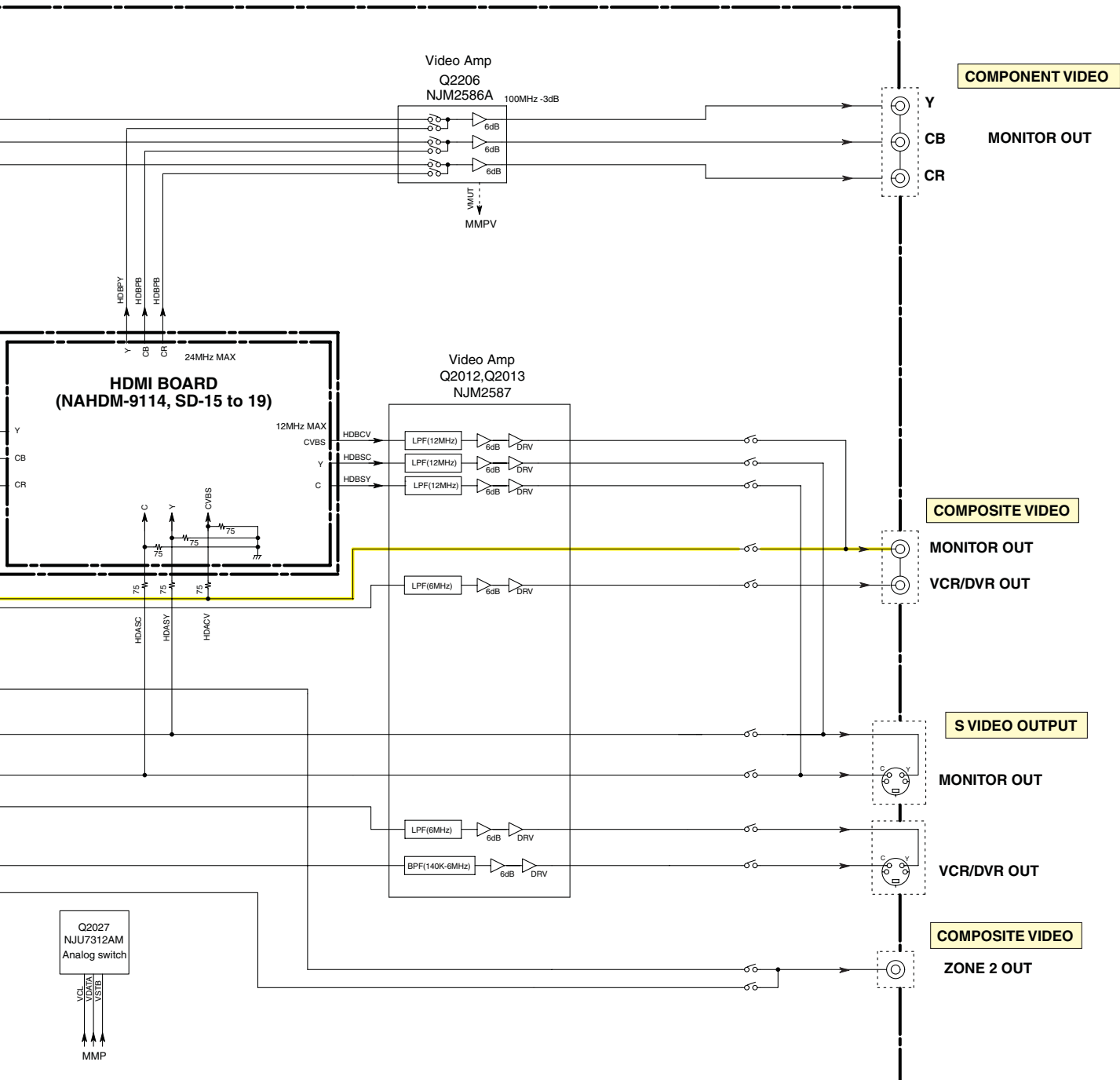
BLOCK DIAGRAMS-2
VIDEO SECTION

1
2
3
4
5



NOTE
MMP is short for MAIN MICROPROCESSOR.

<Note>
Refer to SCHEMATIC DIAGRAM-6, -17 and -29 (SD-6, SD-17 and SD-29)
for video and HDMI signal waveforms.



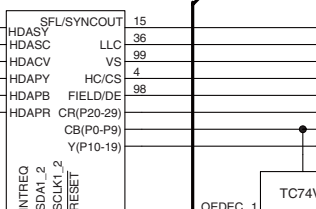
BLOCK DIAGRAMS-3
HDMI SECTION

HDMI BOARD
(NAHDM-9114, SD-15 to 19)

<Note>
Refer to SCHEMATIC DIAGRAM-17, -18 and -29
(SD-17, SD-18 and SD-29) for HDMI signal waveforms.

VIDEO BOARD
NAVD-9052

Q8800
ADV7401
VIDEO DECODER

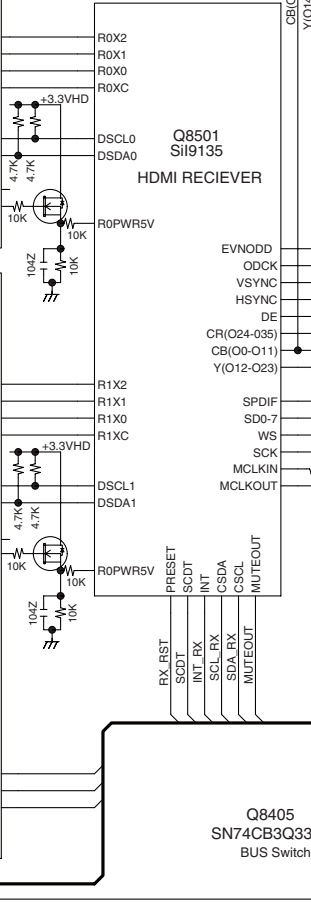
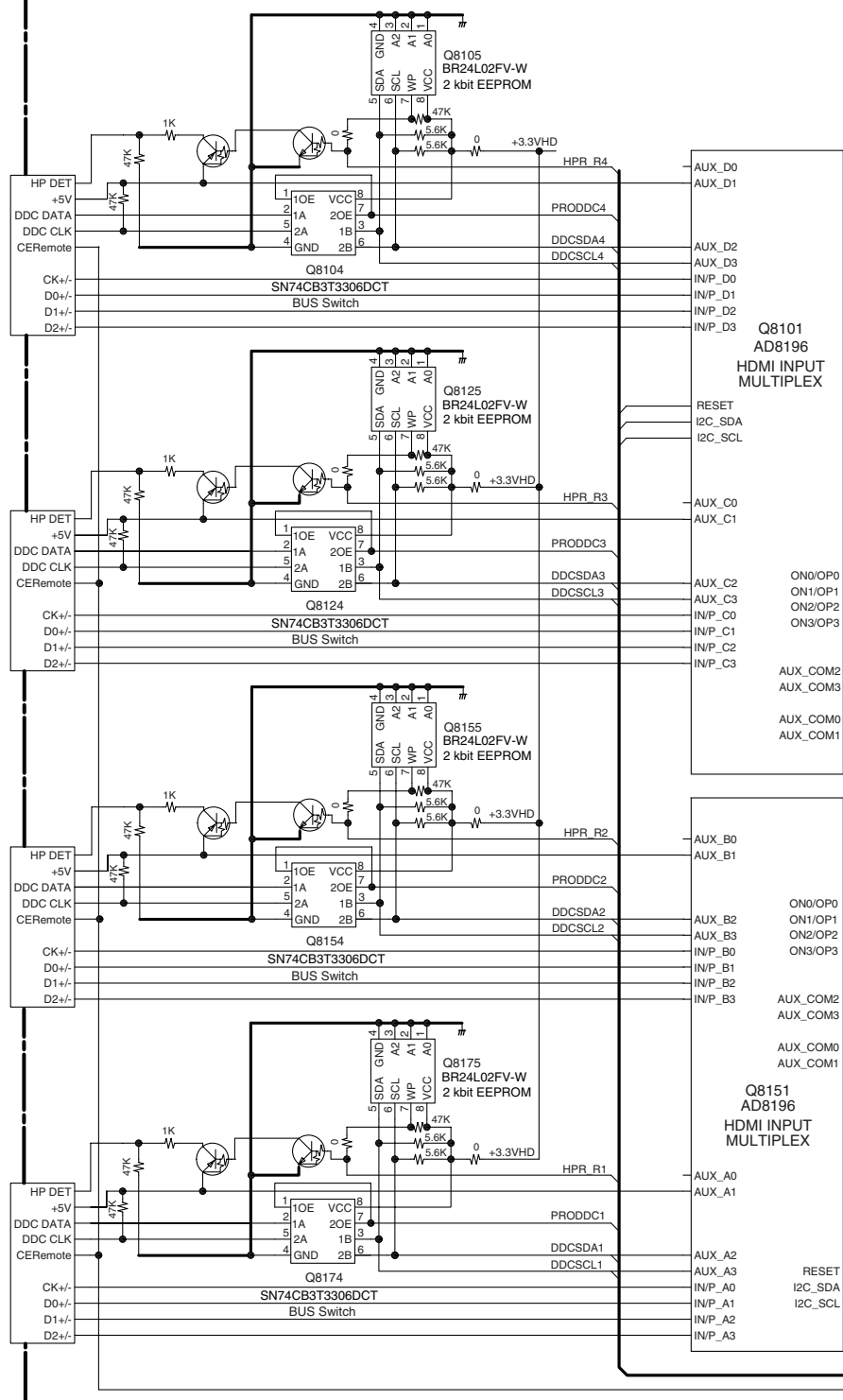


HDMI IN 4

HDMI IN 3

HDMI IN 2

HDMI IN 1



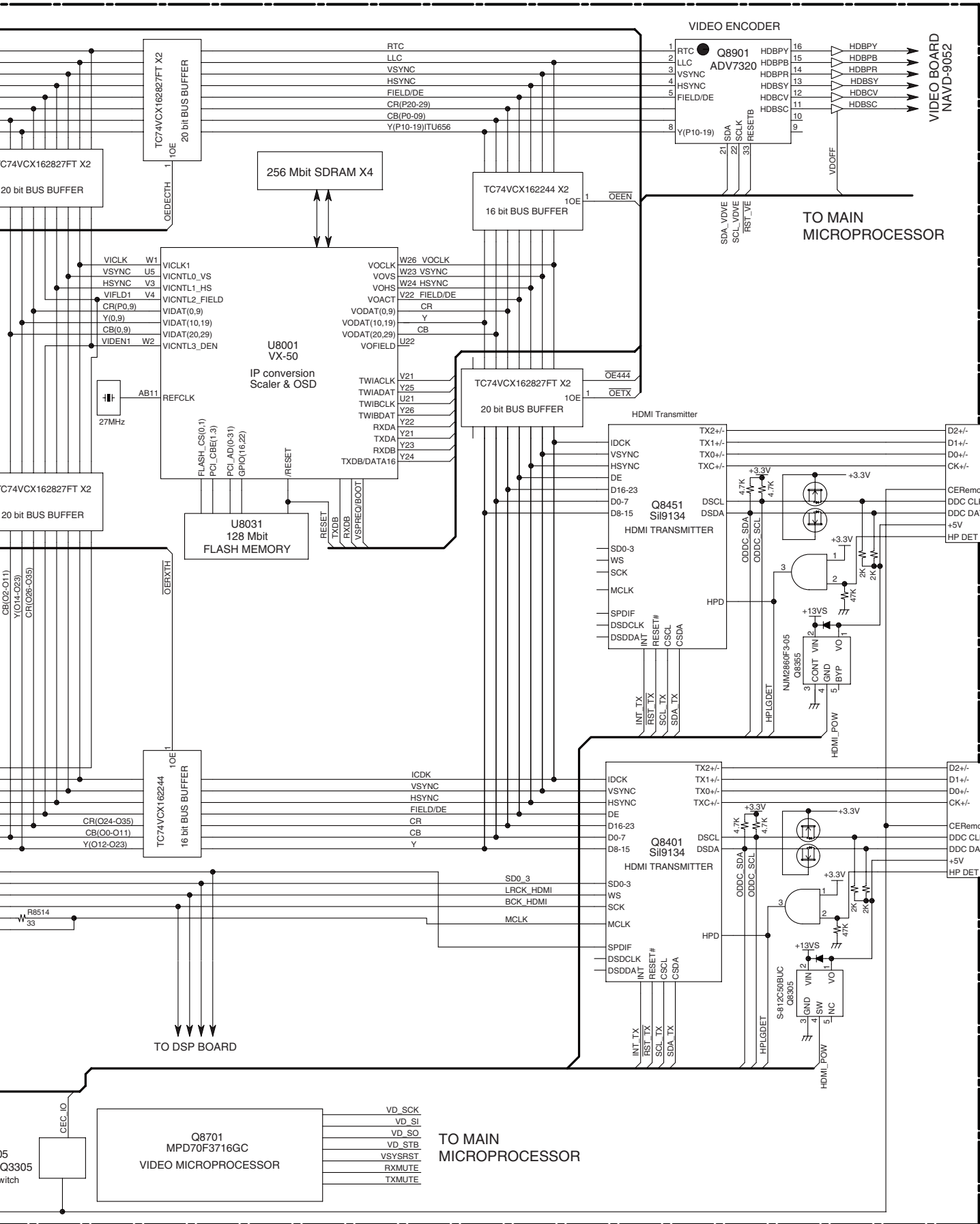
Q8405
SN74CB3Q33
BUS Switch

E

F

G

H



HDMI OUT SUB

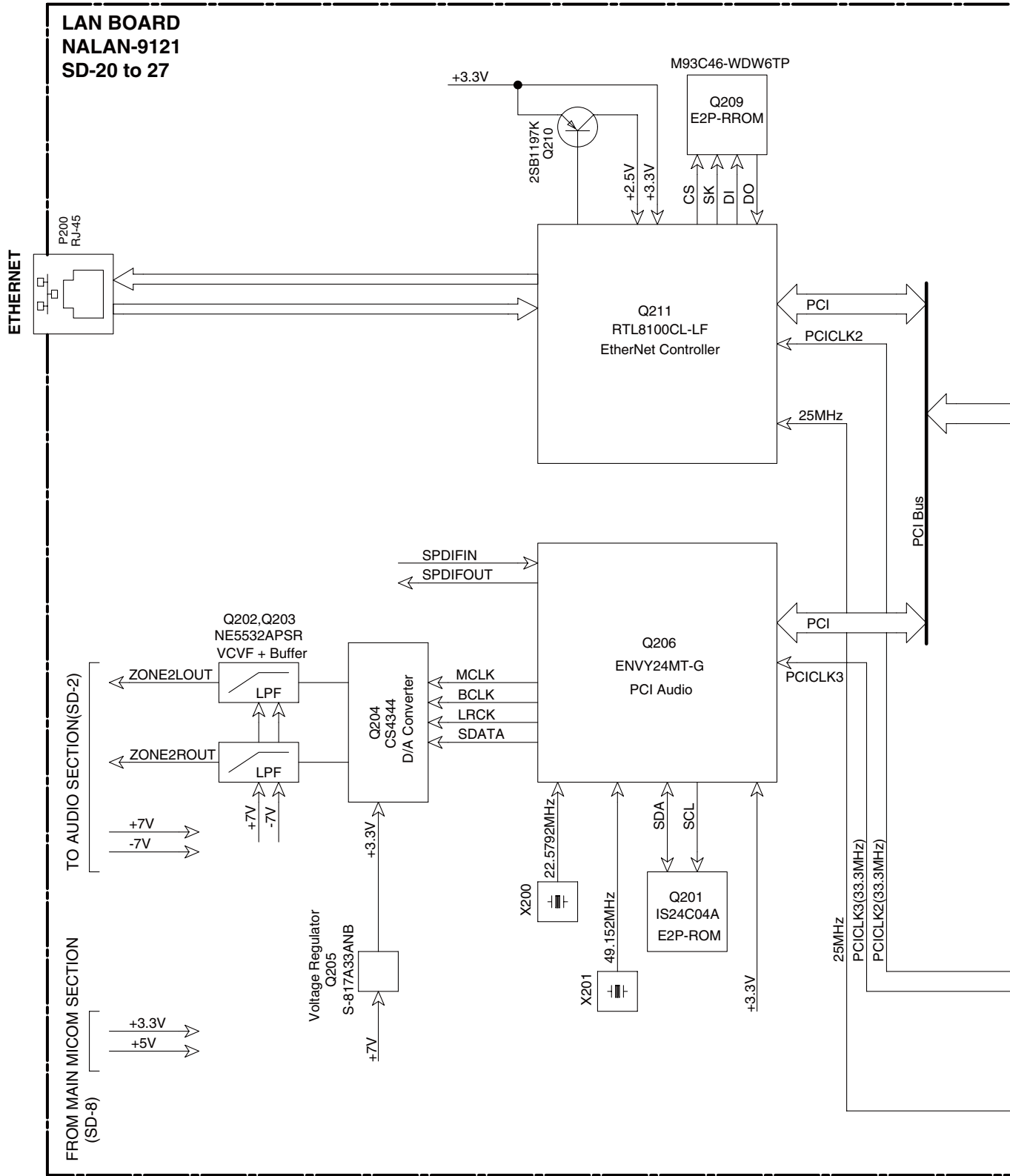
HDMI OUT MAIN

TO MAIN MICROPROCESSOR

TO DSP BOARD

TO MAIN MICROPROCESSOR

BLOCK DIAGRAMS-4 NETWORK SECTION



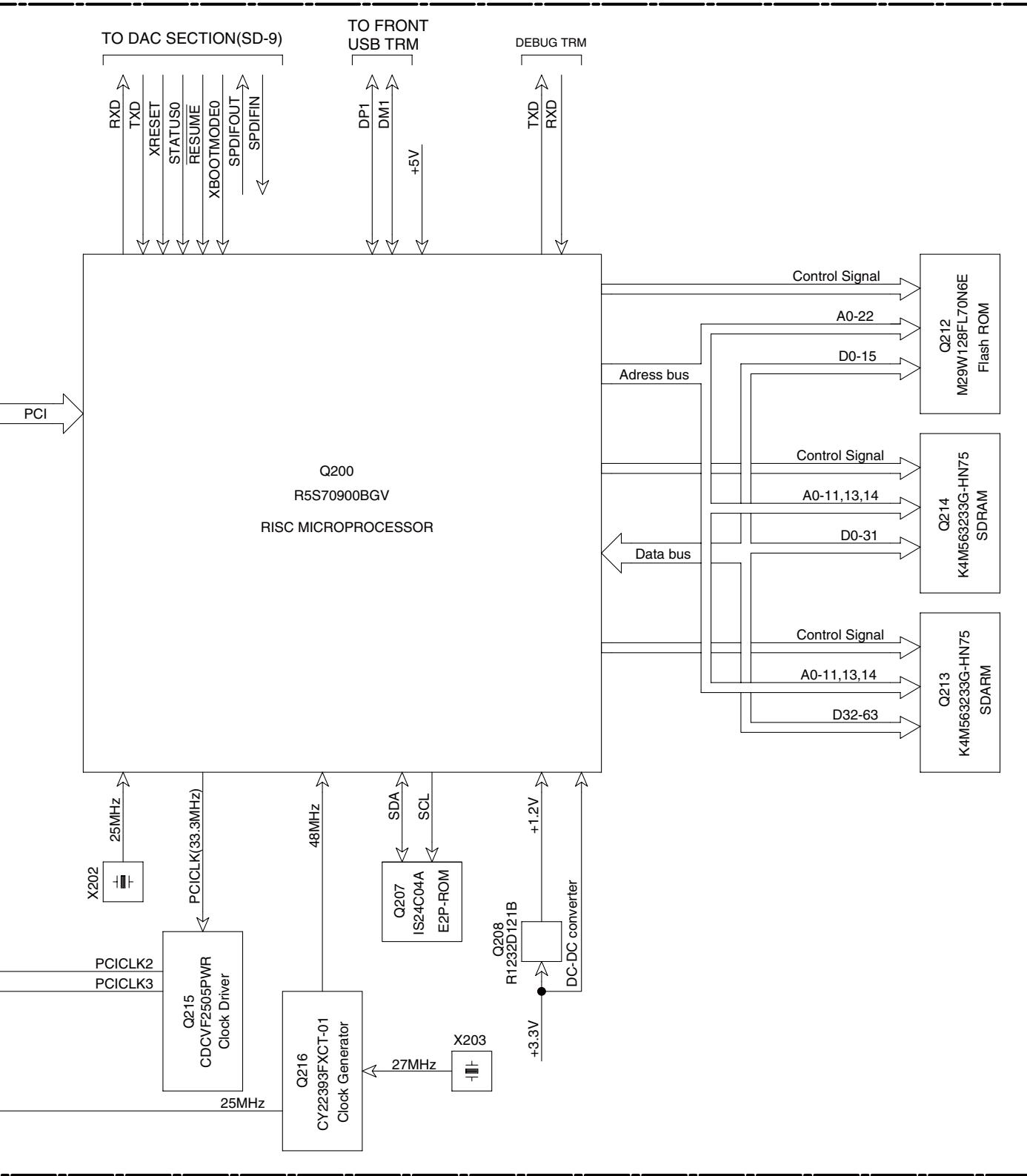
1

2

3

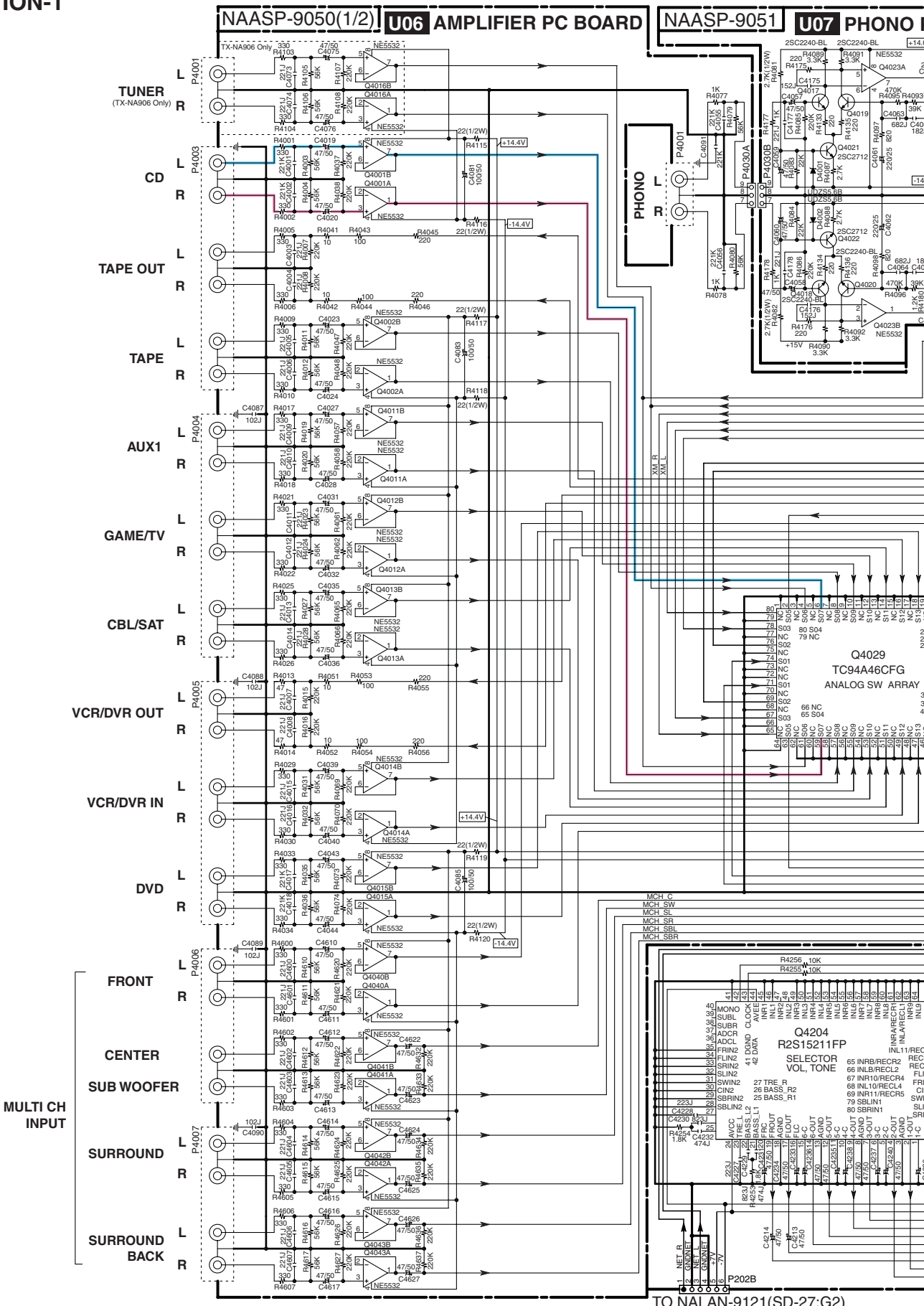
4

5



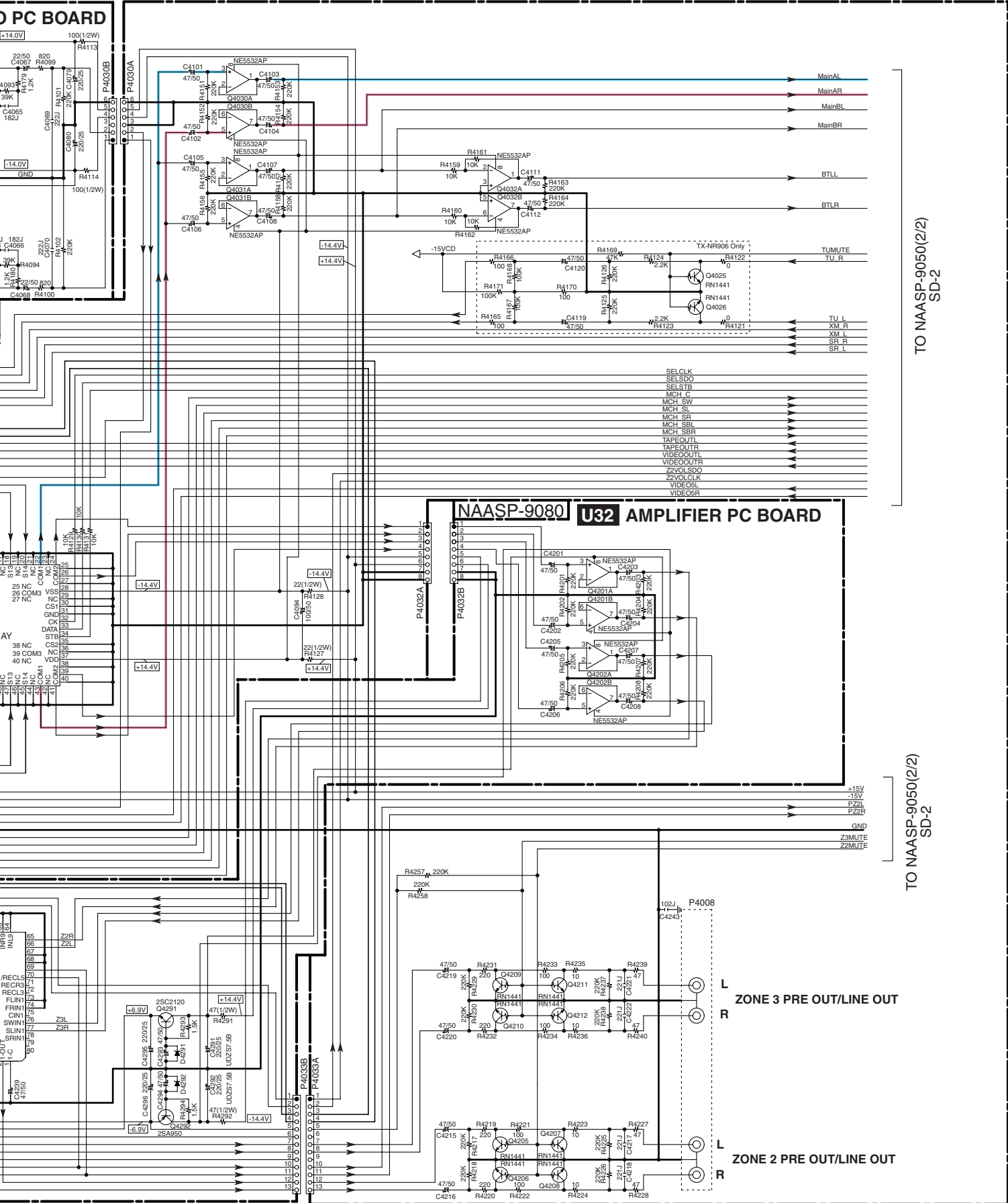
SCHEMATIC DIAGRAMS-1 (SD-1)
AUDIO SECTION-1

1
2
3
4
5



TO NALAN-9121(SD-27:G2)

<Note>
SD-x:XY is short for Shcematic Diagram-x and
each socket's location, X=A to H, Y=1 to 5.



TO NAASP-9050(2/2)
SD-2

TO NAASP-9050(2/2)
SD-2

L
R
ZONE 3 PRE OUT/LINE OUT

L
R
ZONE 2 PRE OUT/LINE OUT

A

B

C

D

SCHEMATIC DIAGRAMS-2 (SD-2)

AUDIO SECTION-2

NAASP-9050(2/2) U06 AMPLIFIER PC BOARD

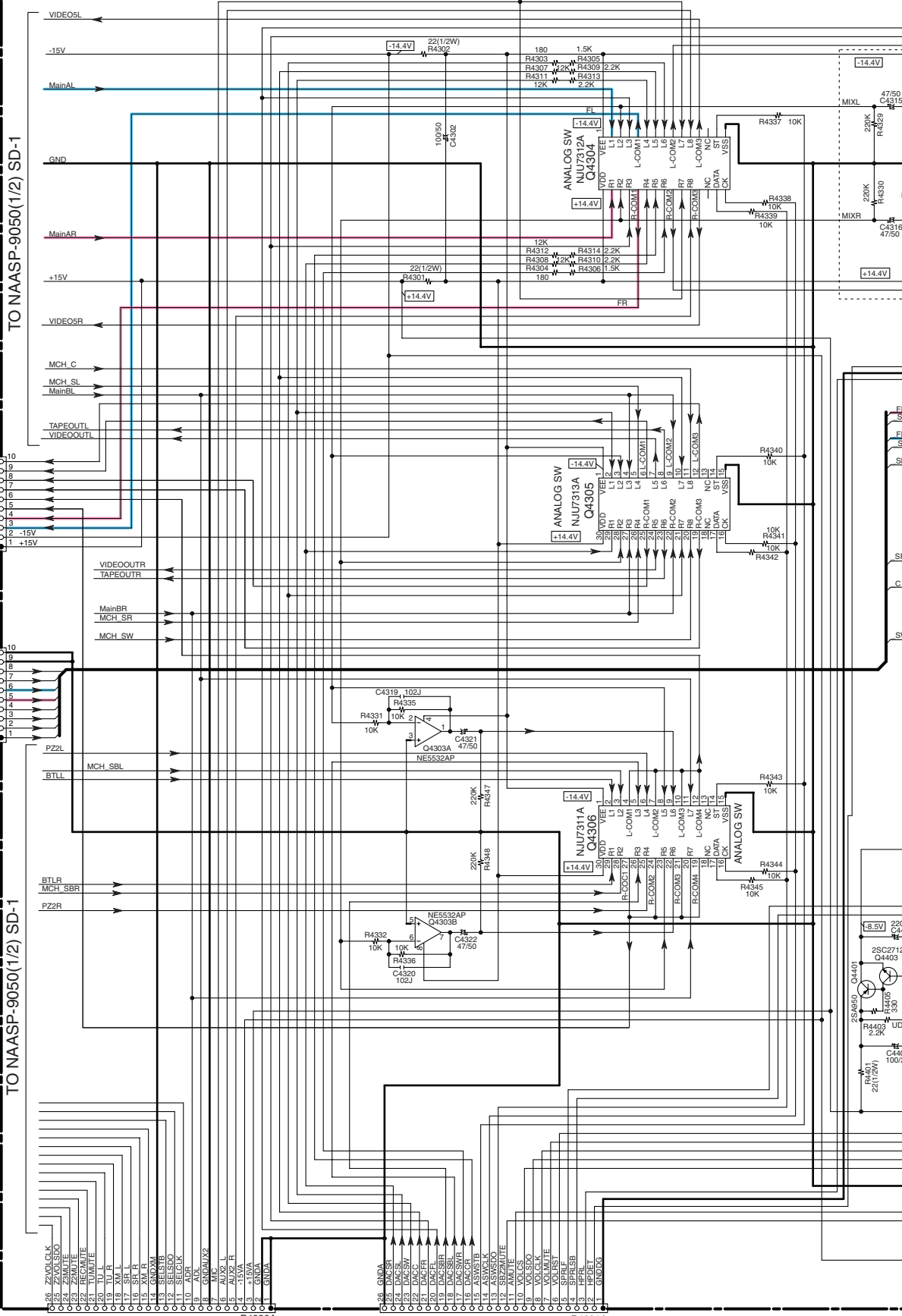
1

2

3

4

5



TO NAETC-9073 SD-14:F2
 TO NAETC-9073 SD-14:H2

TO NAASP-9050(1/2) SD-1
 TO NAASP-9050(1/2) SD-1

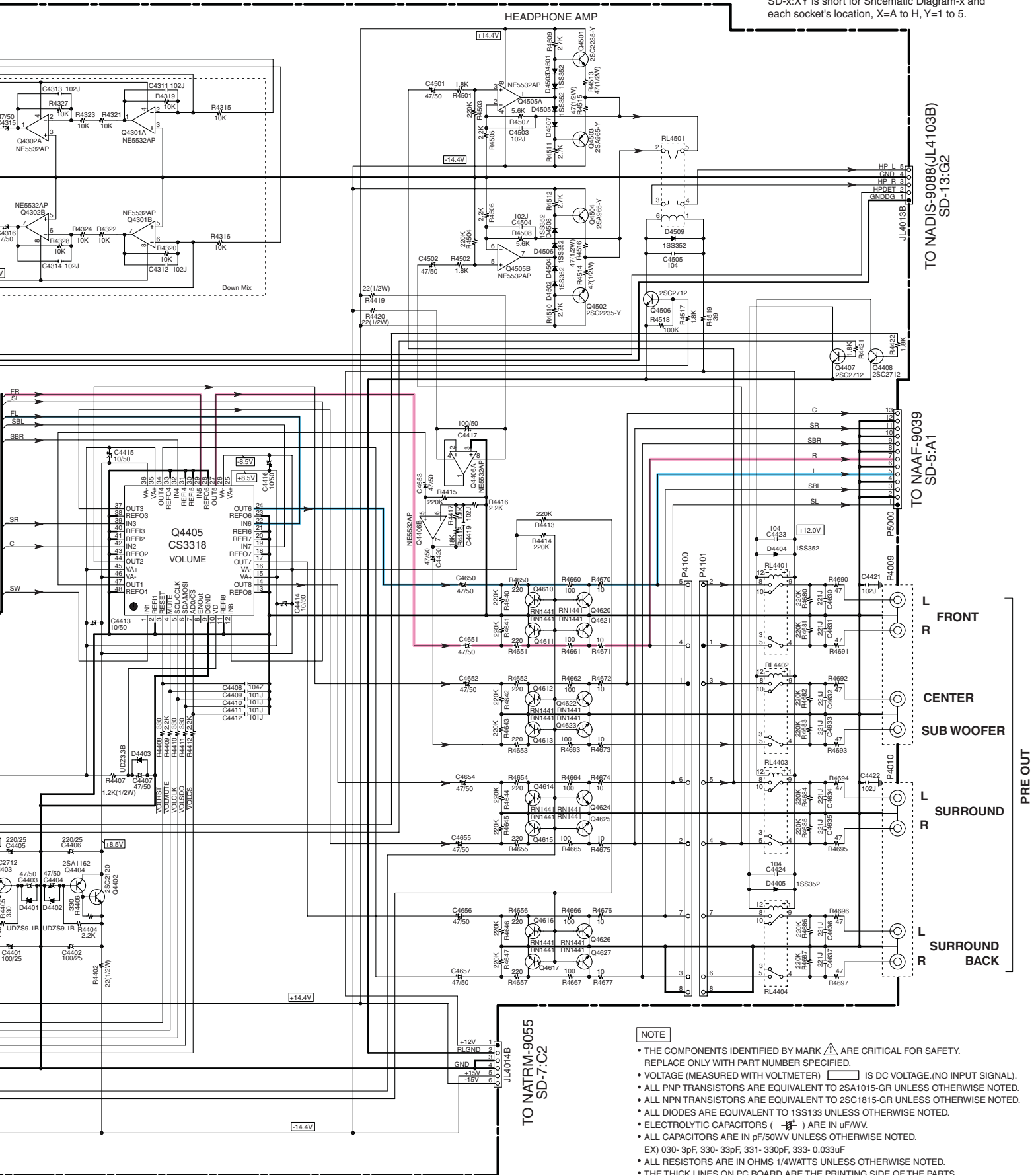
TO NAAR-9075 SD-8:F4

TO NAAR-9075 SD-8:G4

P4020A

P4021A

<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.



- NOTE**
- THE COMPONENTS IDENTIFIED BY MARK Δ 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 (---) ARE IN $\mu\text{F}/\text{V}$.
 - ALL CAPACITORS ARE IN $\text{pF}/50\text{V}$ UNLESS OTHERWISE NOTED.
 - EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
 - ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
 - THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
 - EX) \square PRINTING SIDE
 - CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

A

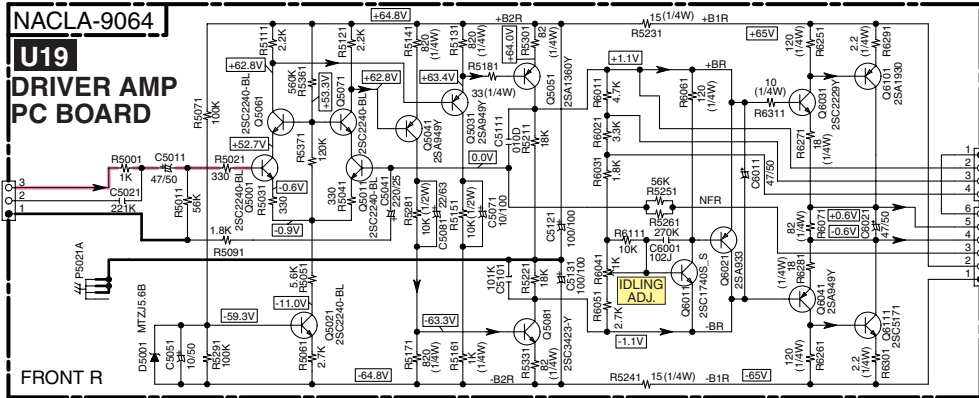
B

C

D

SCHEMATIC DIAGRAMS-3 (SD-3)
POWER AMPLIFIER SECTION-1

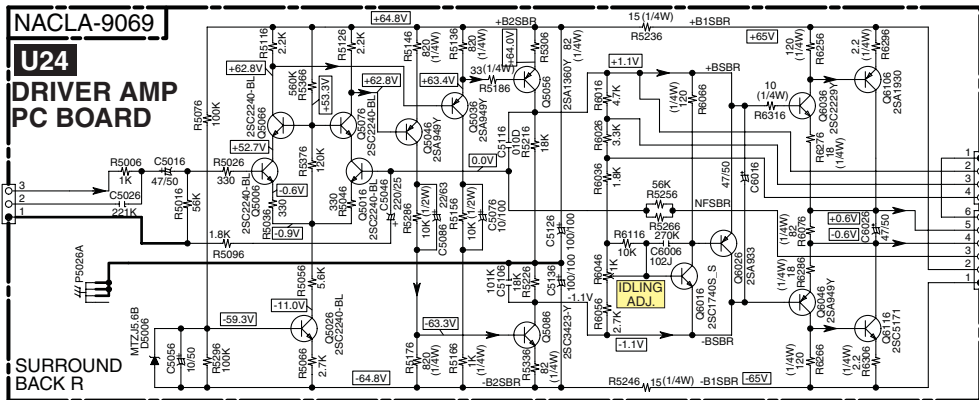
1



TO NAAF-9039
SD-5:H3
P5011A

TO NAAMP-9062 TO NAAF-9039
SD-4:B1 SD-5:H3

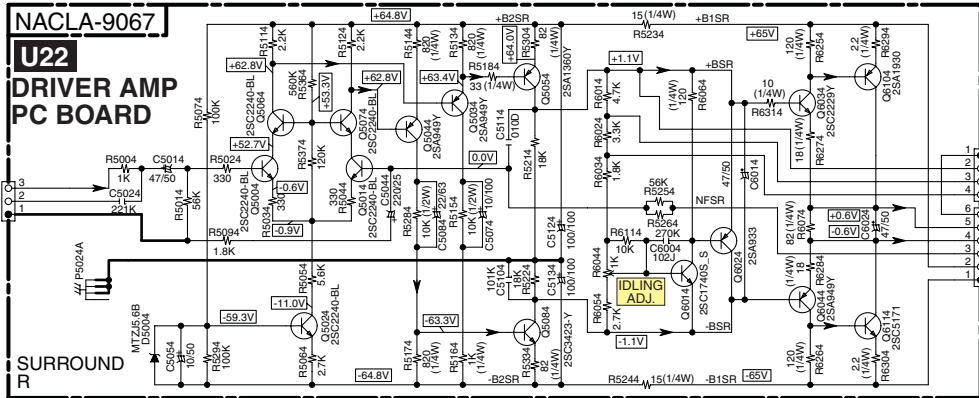
2



TO NAAF-9039
SD-5:H2
P5016A

TO NAAMP-9062 TO NAAF-9039
SD-4:B2 SD-5:H3

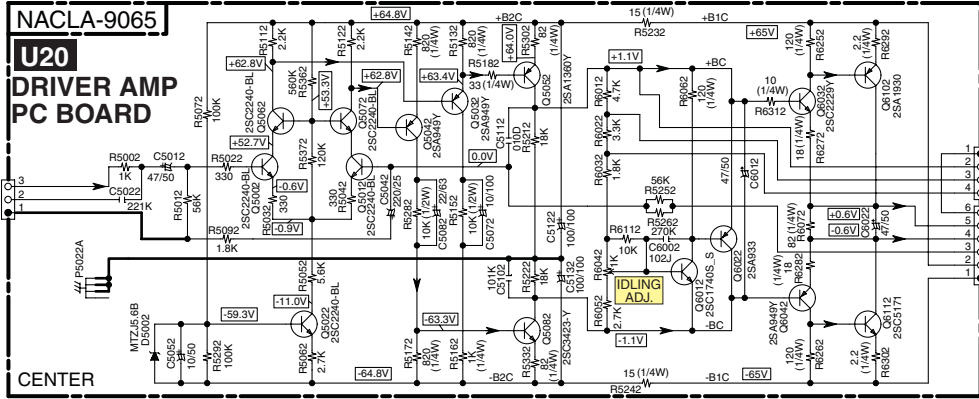
3



TO NAAF-9039
SD-5:H2
P5014A

TO NAAMP-9062 TO NAAF-9039
SD-4:B3 SD-5:H2

4



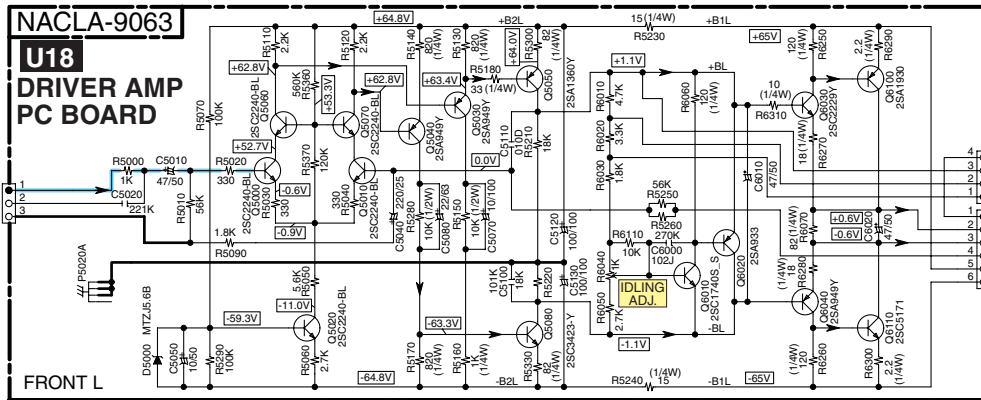
TO NAAF-9039
SD-5:H1
P5012A

TO NAAMP-9062 TO NAAF-9039
SD-4:B4 SD-5:H1

5

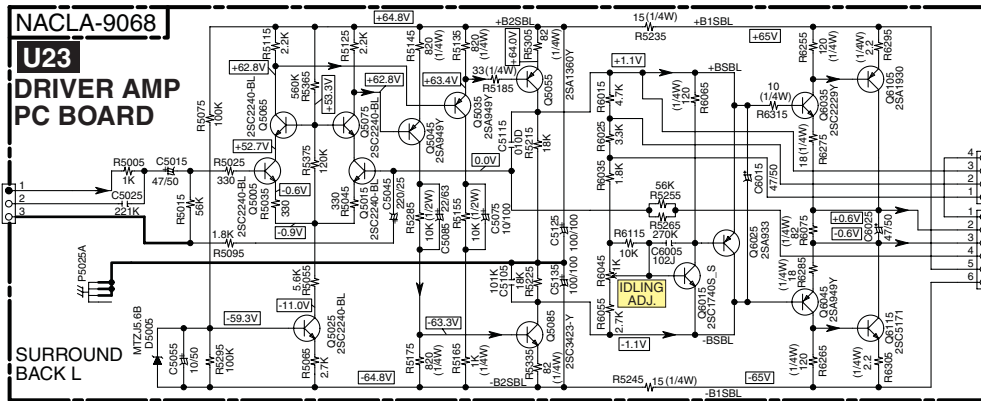
NACLA-9064,65,67,69
are fully compatible with each other.

TO NAAF-9039
SD-5:H4



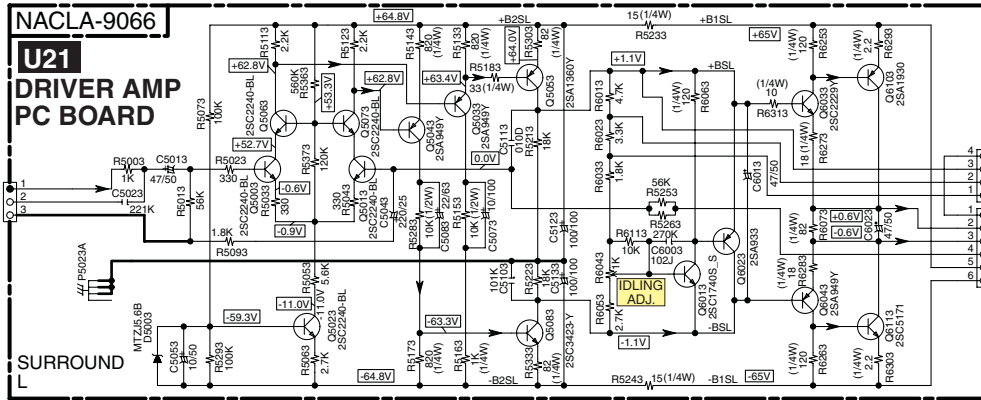
TO NAAF-9039
SD-5:H4

TO NAAF-9039
SD-5:H4



TO NAAF-9039
SD-5:H4

TO NAAF-9039
SD-5:H5



TO NAAF-9039
SD-5:H5

NACLA-9063,66,68 are fully compatible with each other.

<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

- THE COMPONENTS IDENTIFIED BY MARK \triangle 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 ($\text{---} \text{---} \text{---}$) 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 μF
- 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.

A

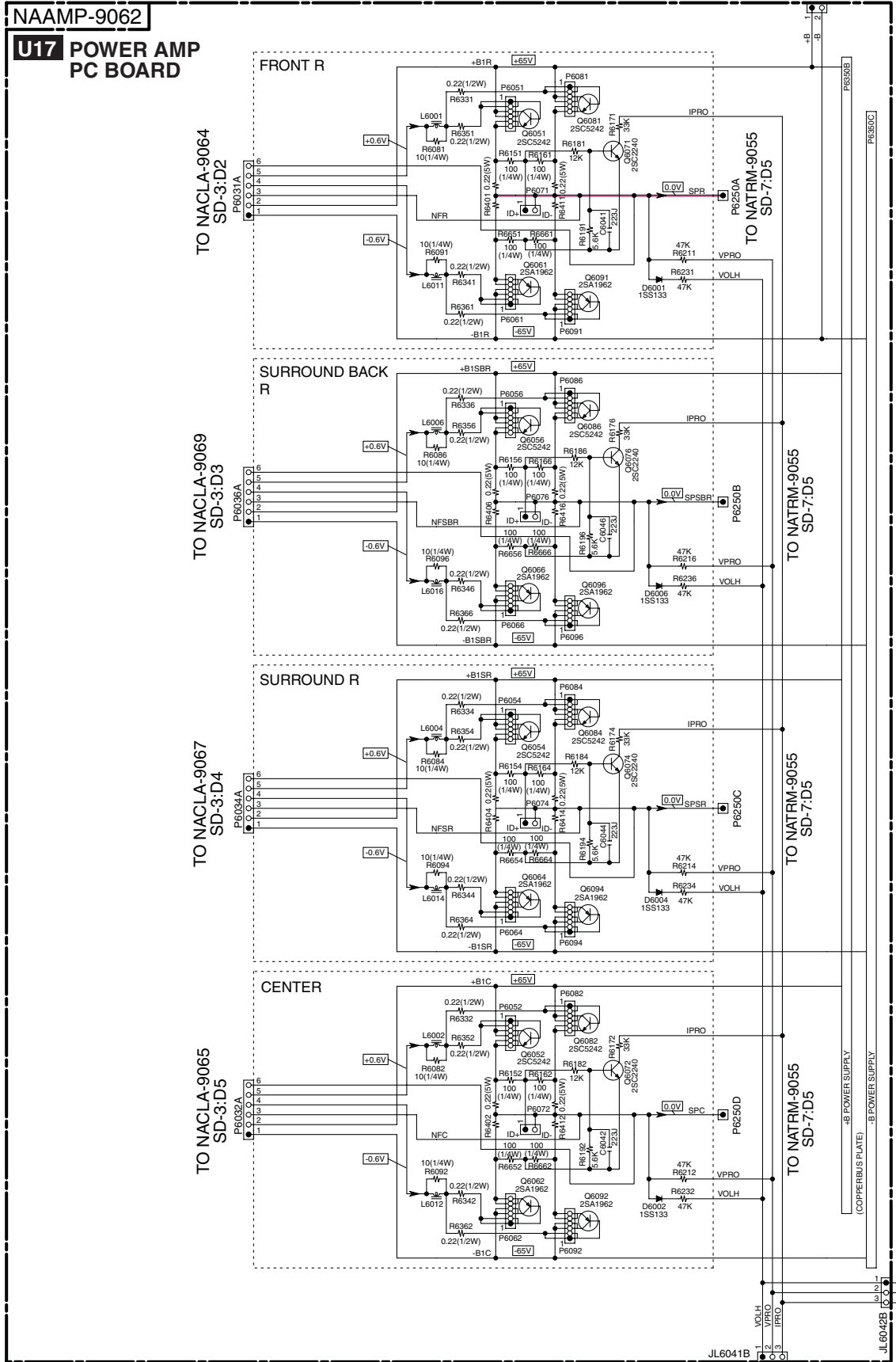
B

C

D

SCHEMATIC DIAGRAMS-4 (SD-4)
POWER AMPLIFIER SECTION-2

TO NAAF-9039
SD-5:F3



1

2

3

4

5

NAAMP-9062

U17 POWER AMP
PC BOARD

TO NACLA-9064
SD-3:D2

TO NACLA-9069
SD-3:D3

TO NACLA-9067
SD-3:D4

TO NACLA-9065
SD-3:D5

P6350A

P6350B

P6350C

P6250A

P6250B

P6250C

P6086

P6087

P6088

P6089

P6090

P6091

P6092

P6093

P6094

P6095

P6096

P6097

P6098

P6099

P6100

P6101

P6102

P6103

P6104

P6105

P6106

P6107

TO NAAF-9039
SD-5:E3

JL6042B

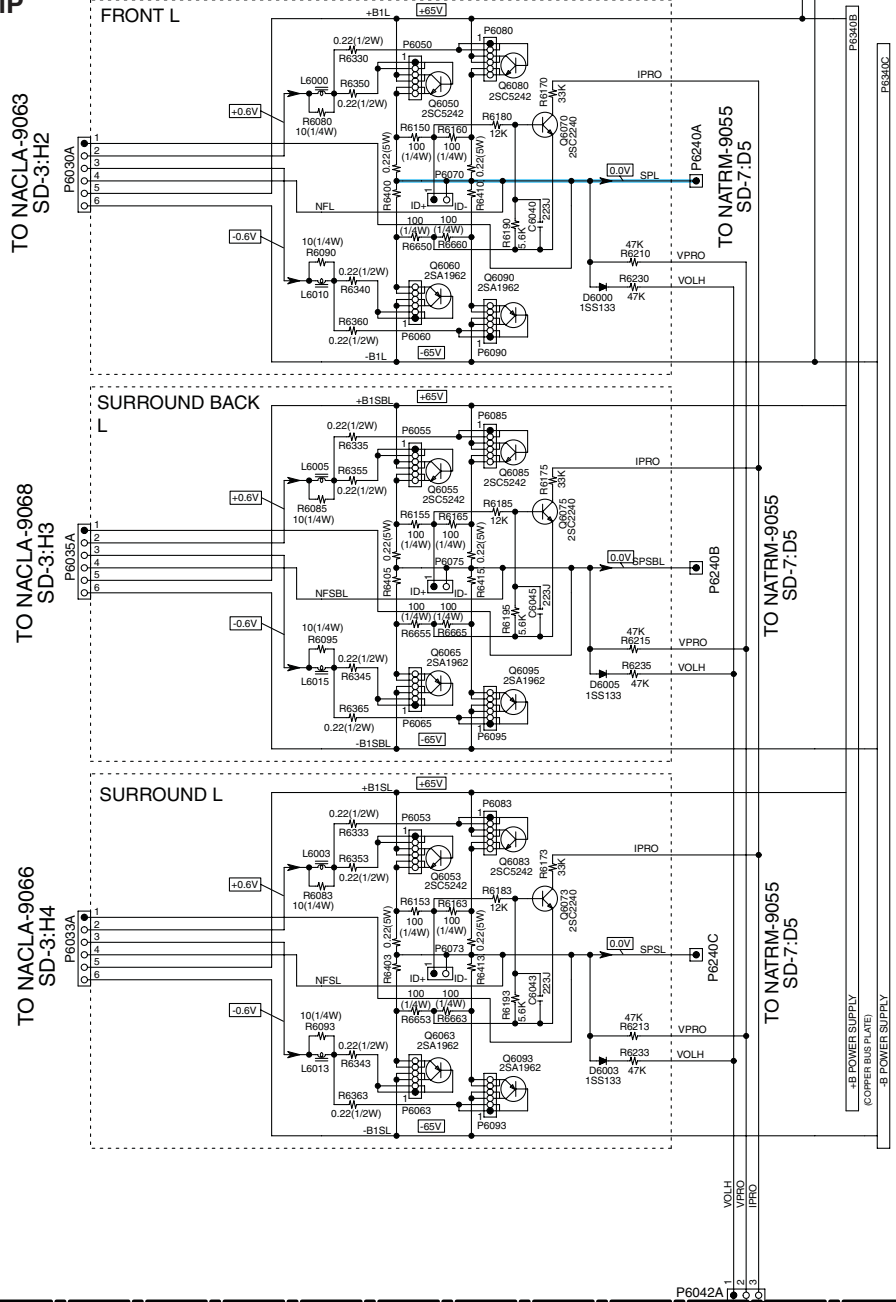
JL6041B

JL6040B

TO NAAF-9039
SD-5:F3

NAAMP-9061

**U16 POWER AMP
PC BOARD**



NOTE

- THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE.(NO INPUT SIGNAL).
- 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 () ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

A B C D

SCHEMATIC DIAGRAMS-5 (SD-5)
POWER SUPPLY SECTION-1

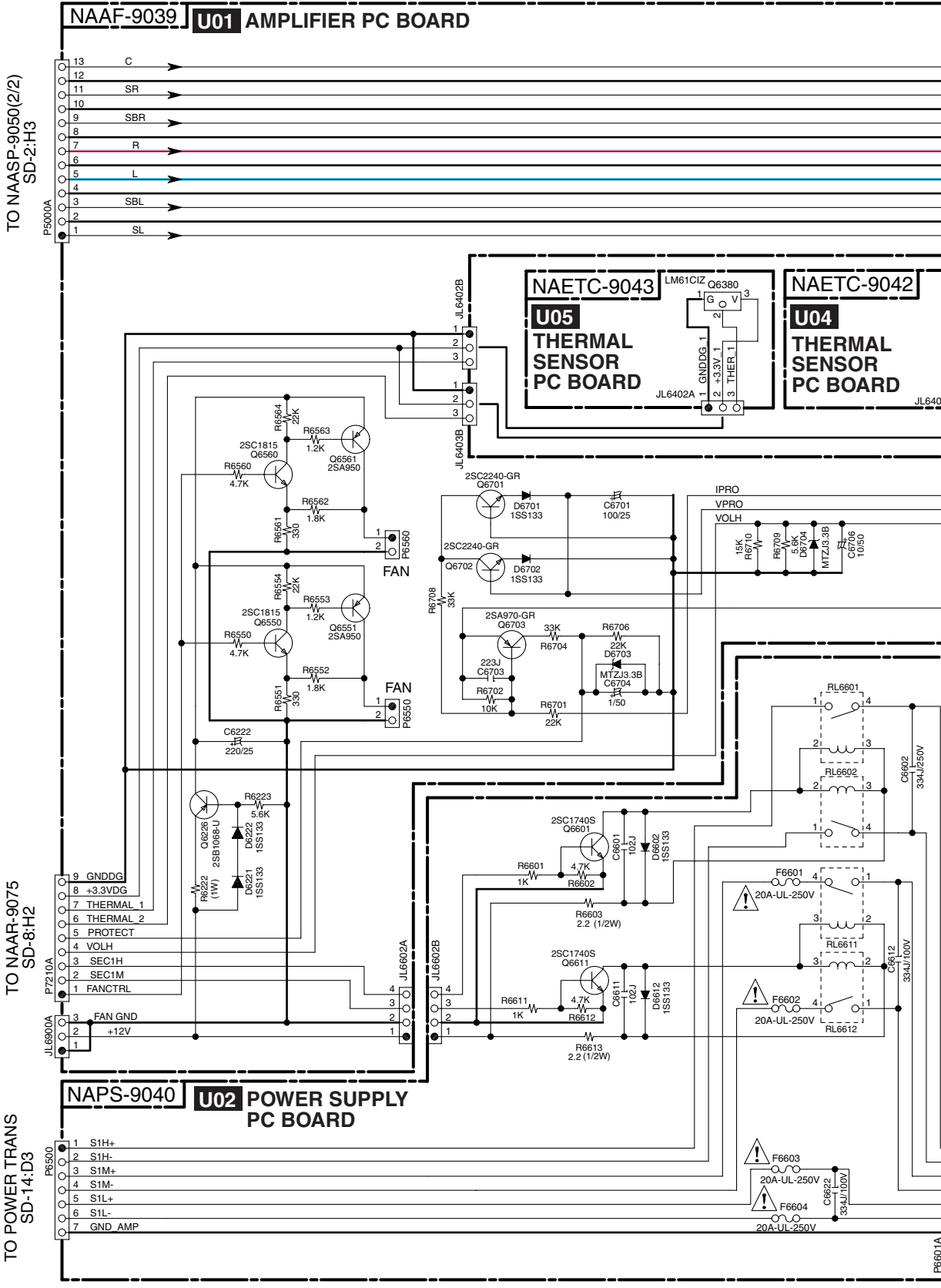
1

2

3

4

5



E

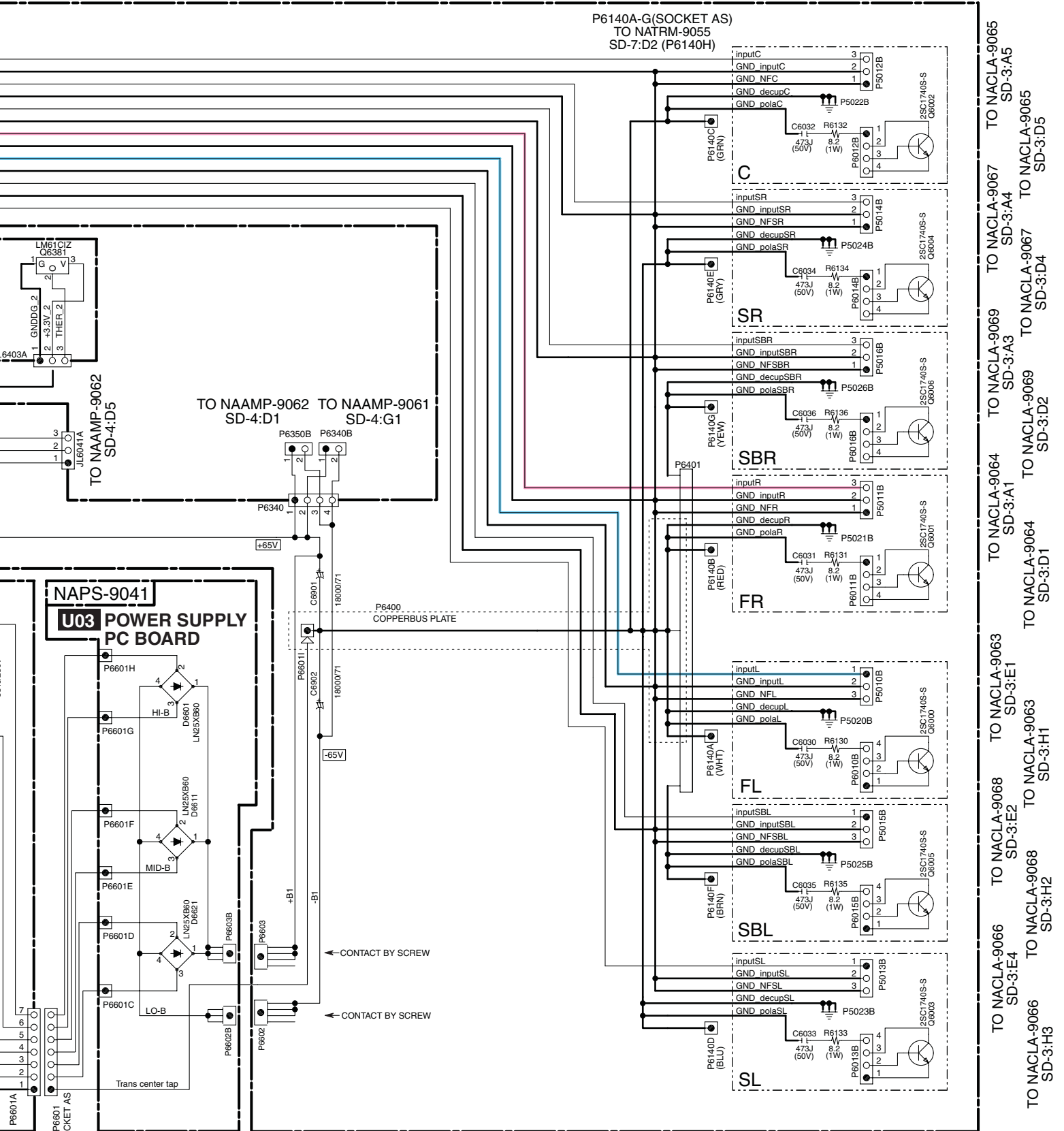
F

G

H

<Note>

SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

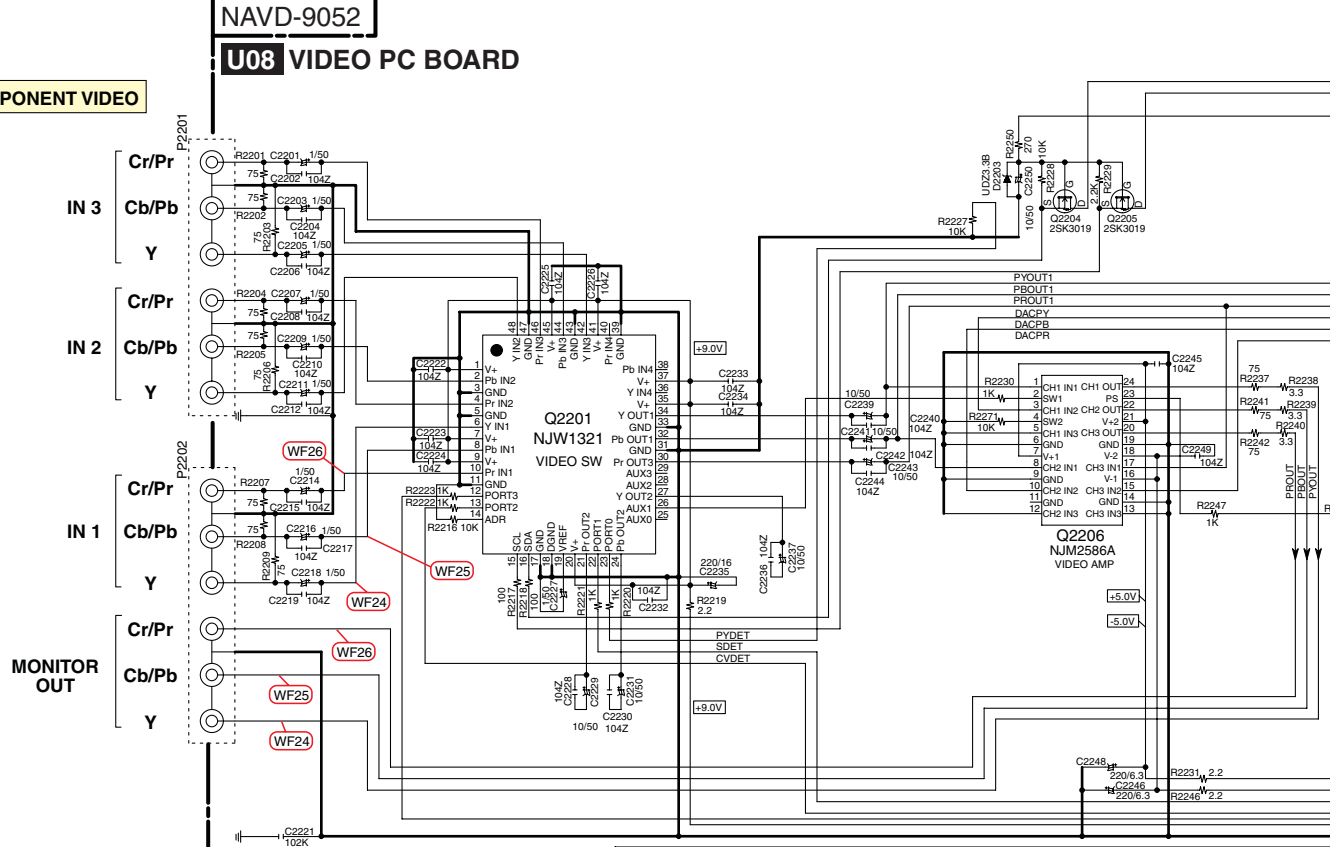


SCHEMATIC DIAGRAMS-6 (SD-6)
VIDEO SECTION

A B C D

1

COMPONENT VIDEO

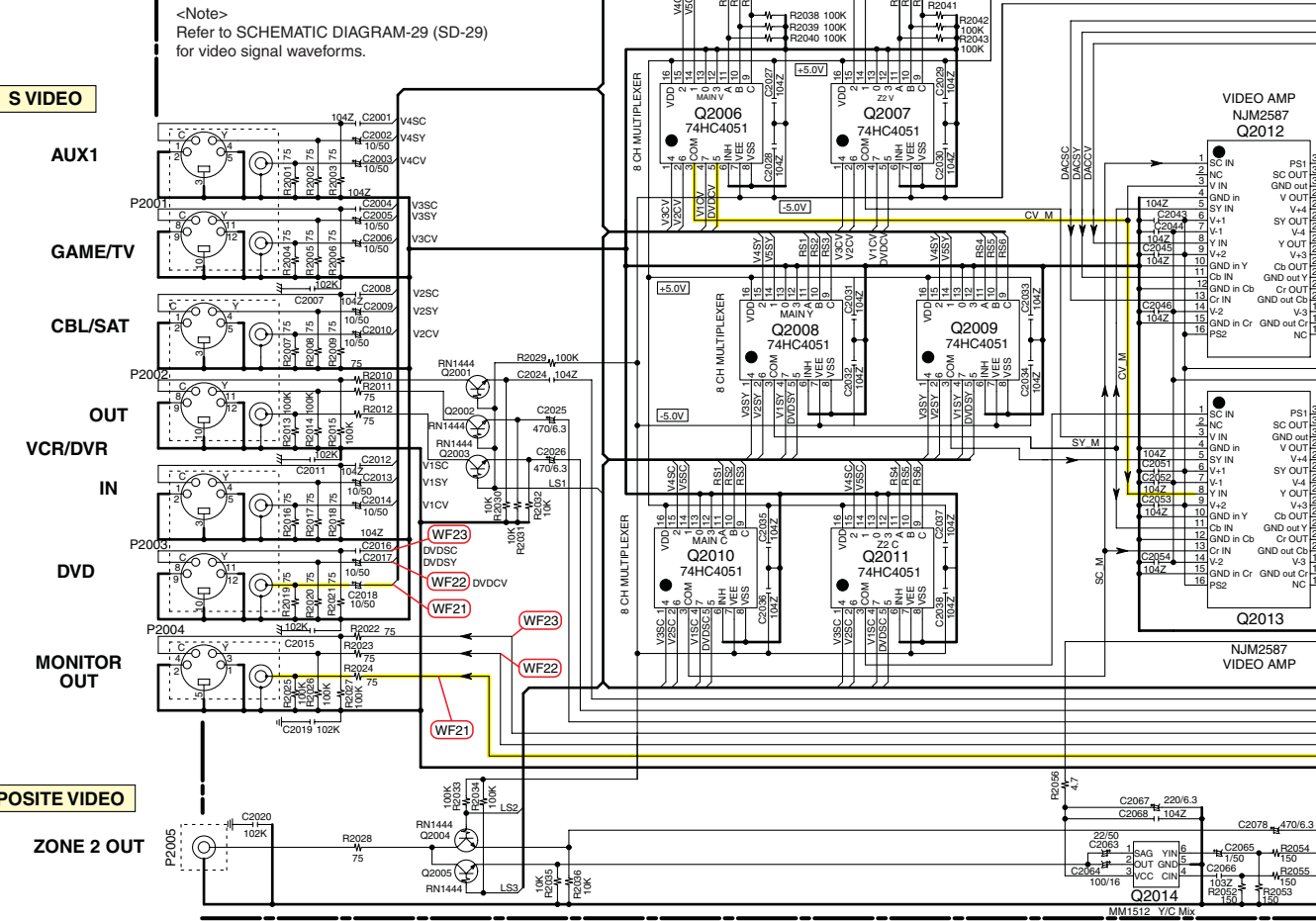


2

3

<Note>
Refer to SCHEMATIC DIAGRAM-29 (SD-29)
for video signal waveforms.

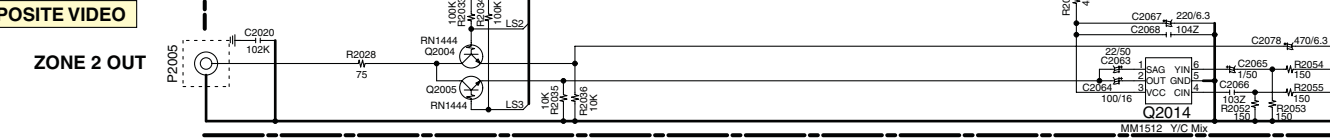
S VIDEO



4

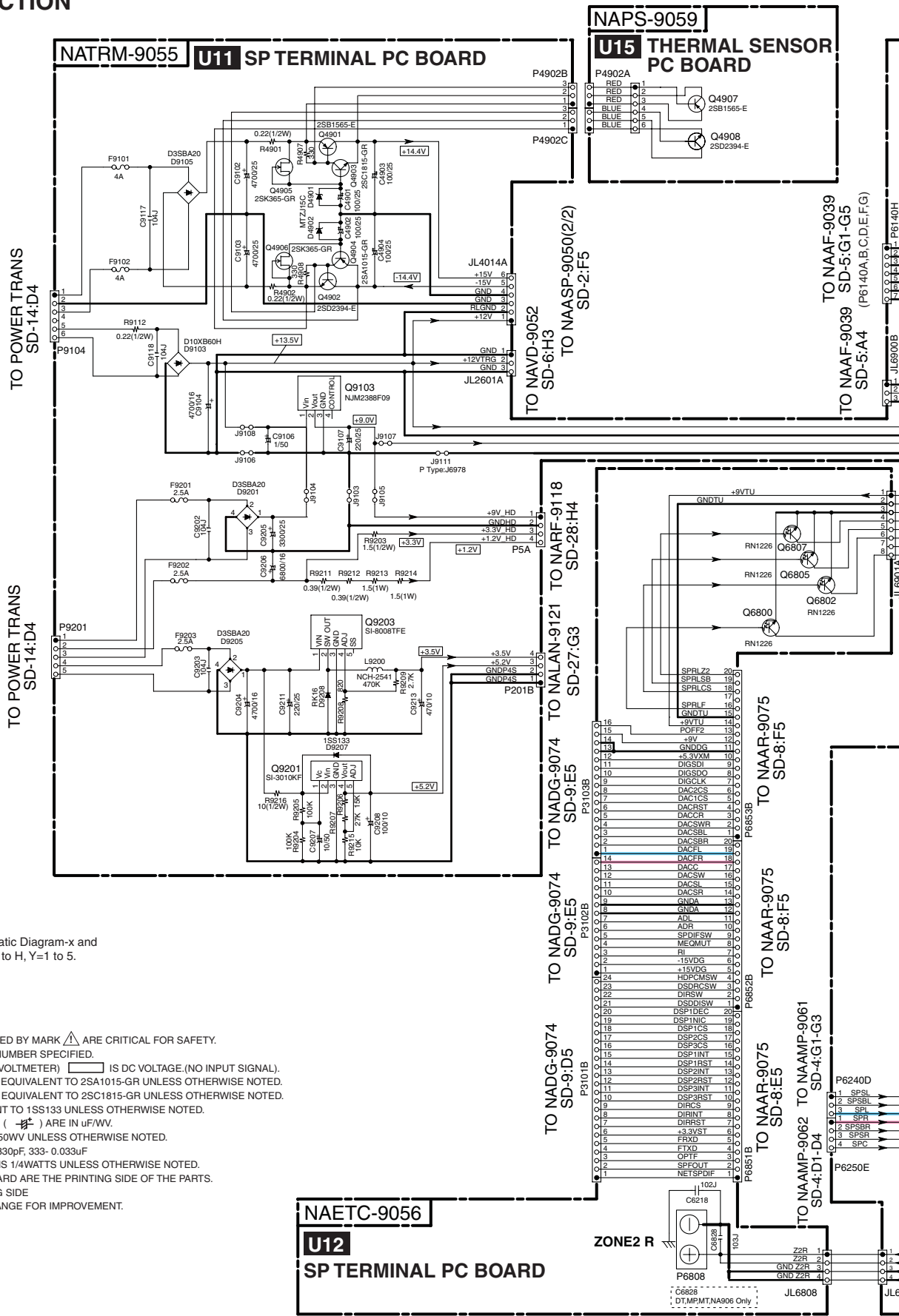
5

COMPOSITE VIDEO



SCHEMATIC DIAGRAMS-7 (SD-7)
SP TERMINAL SECTION

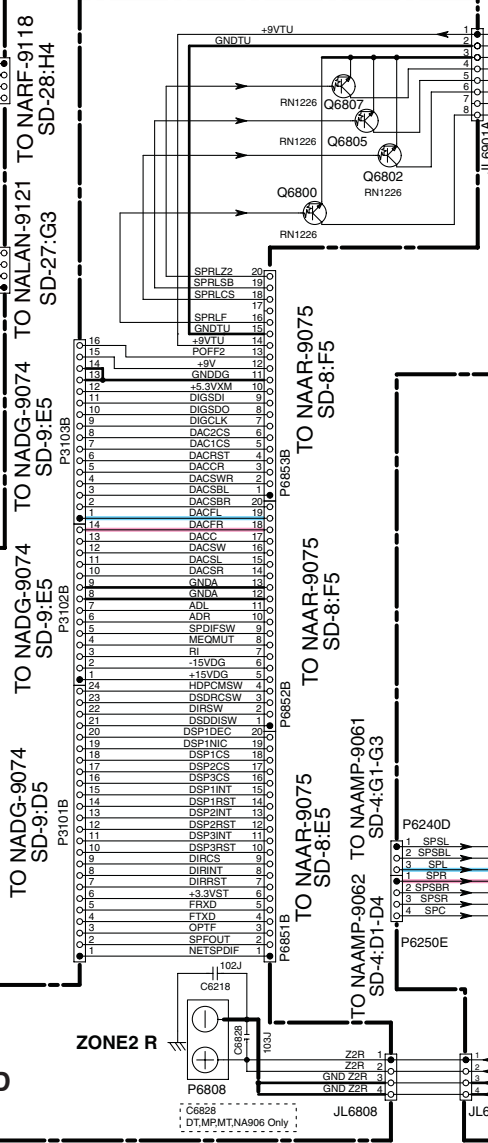
1
2
3
4
5

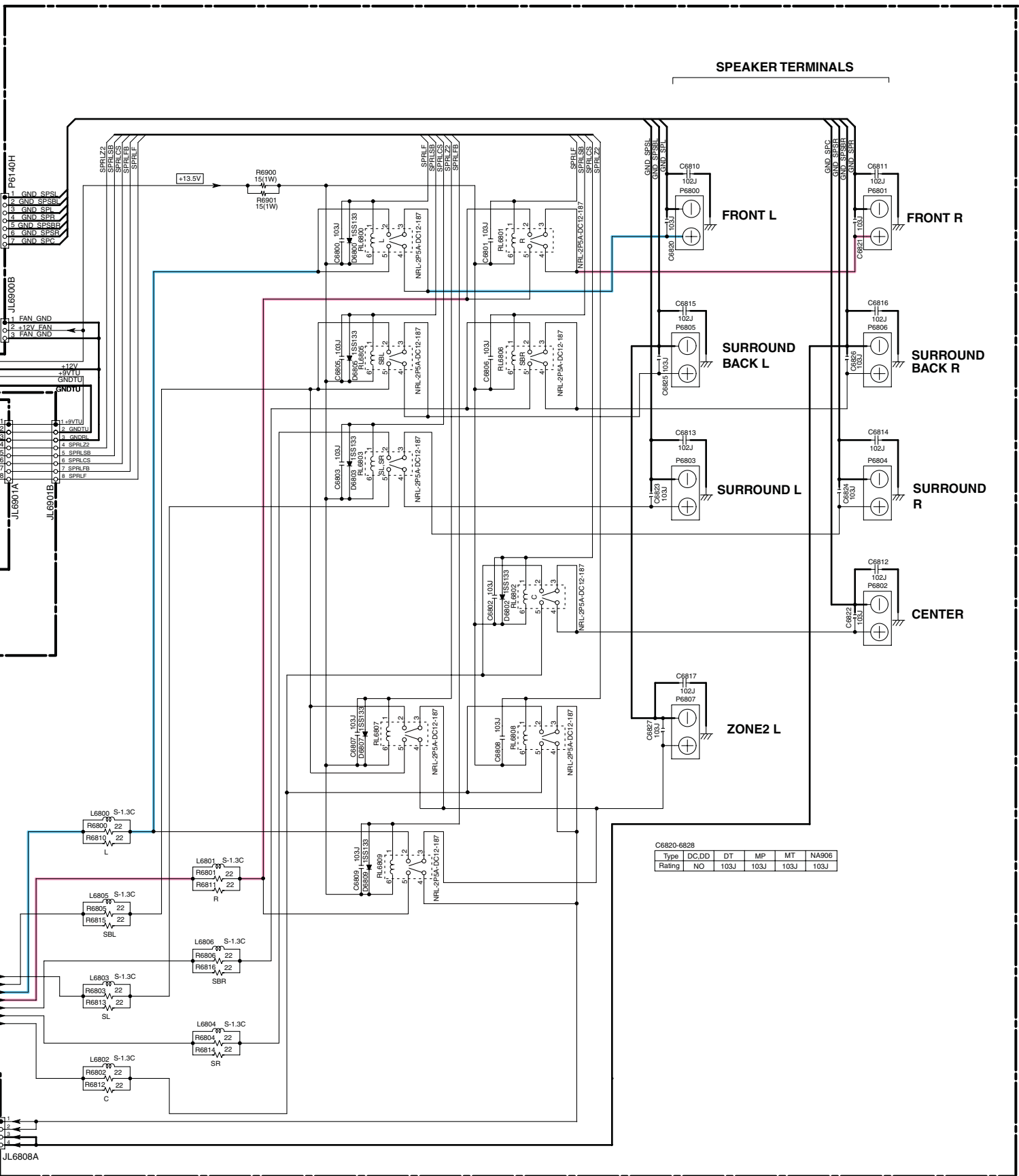


<Note>
SD-x:Y is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

- THE COMPONENTS IDENTIFIED BY MARK Δ 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 1S133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (---) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) \square PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.





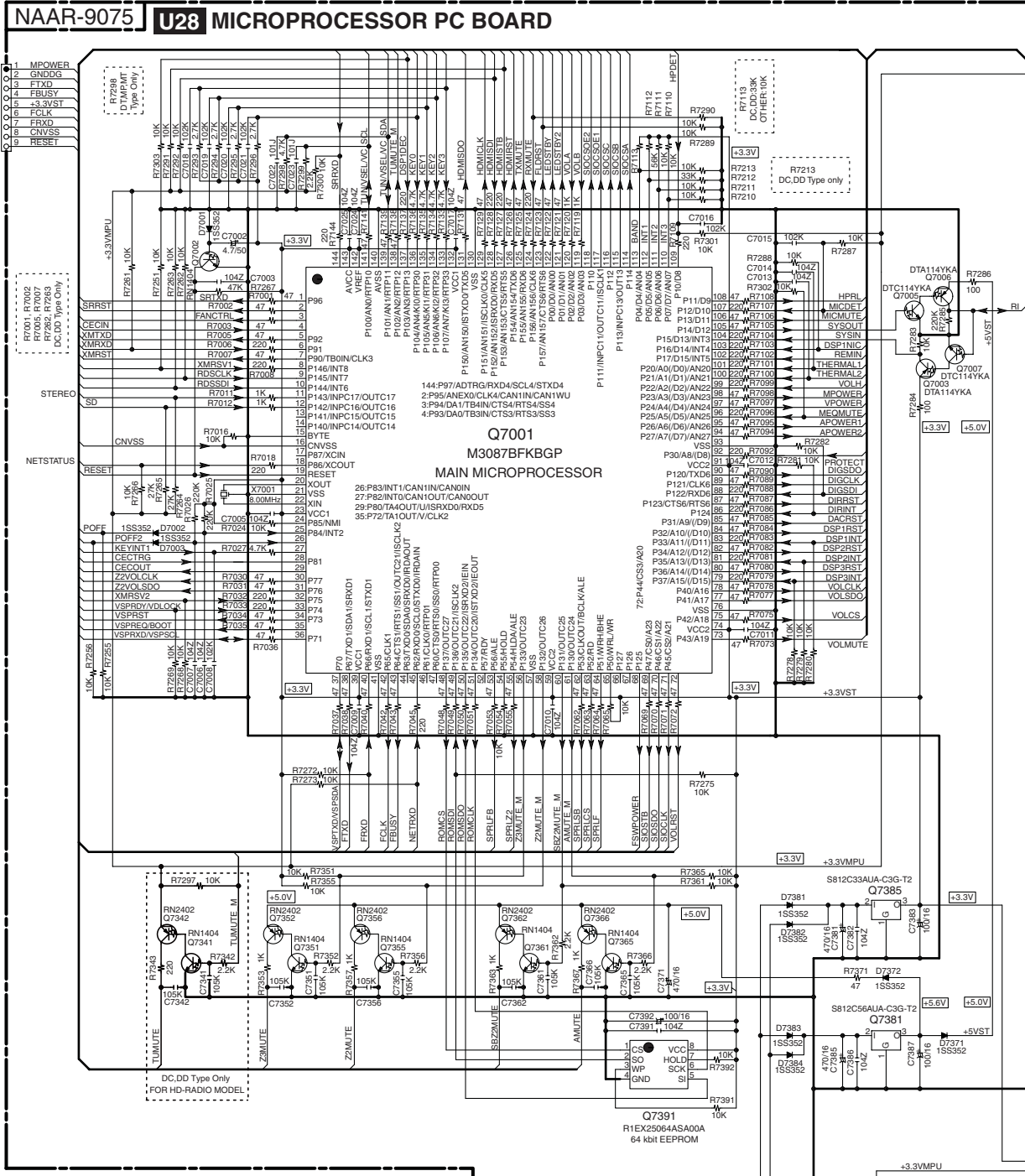
A

B

C

D

**SCHEMATIC DIAGRAMS-8 (SD-8)
MICROPROCESSOR SECTION**



<Note>
SD-x:XX is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

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- VOLTAGE (MEASURED WITH VOLTMETER) 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 () ARE IN uF/MV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

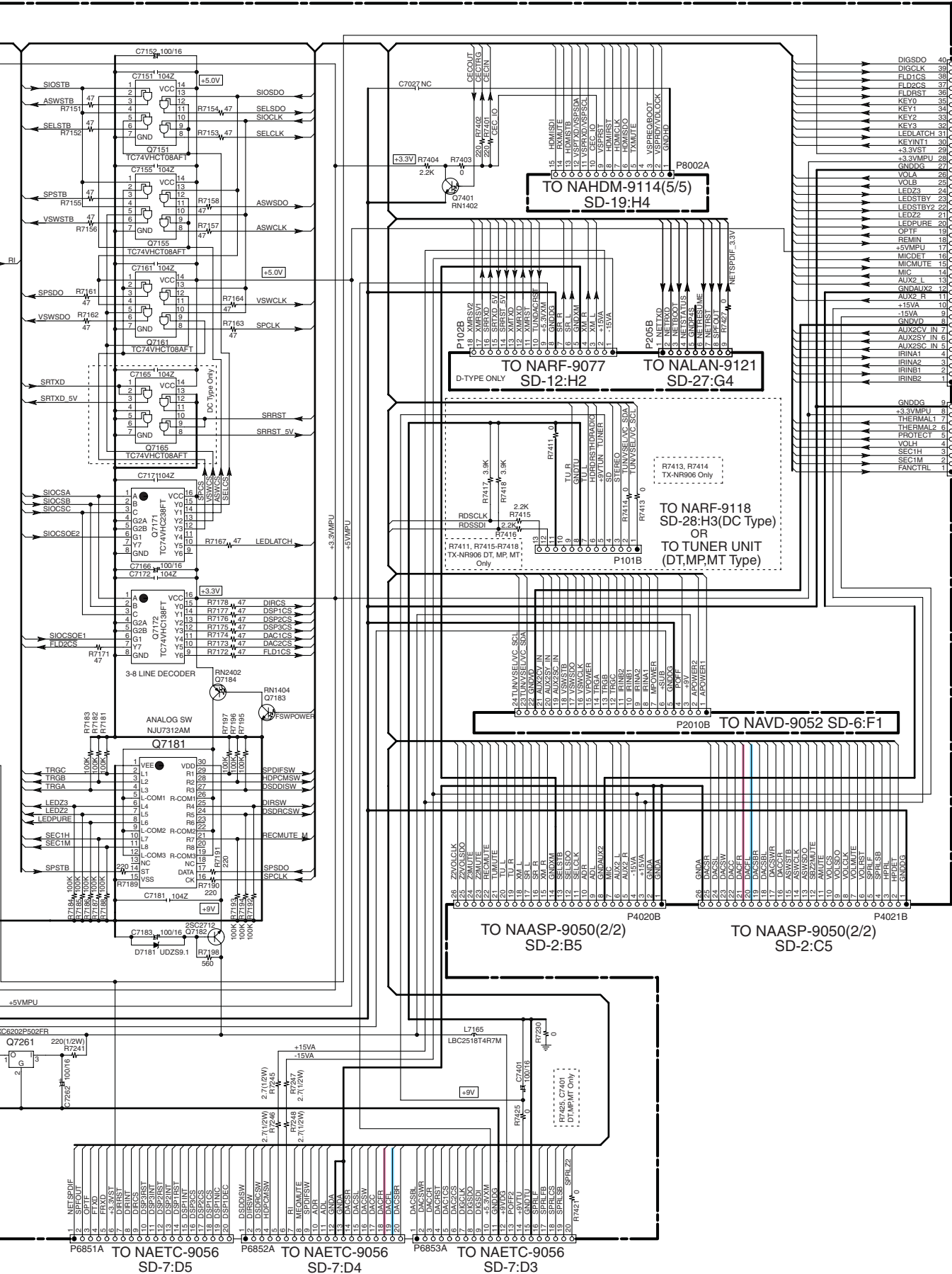
1

2

3

4

5



P7501A
TO NAADIS-9085
SD-13:B2

P7210B
TO NAAF-9039
SD-5:A4

P7501A
TO NAADIS-9085
SD-13:B2

P7210B
TO NAAF-9039
SD-5:A4

P7501A
TO NAADIS-9085
SD-13:B2

P7210B
TO NAAF-9039
SD-5:A4

P7501A
TO NAADIS-9085
SD-13:B2

P7210B
TO NAAF-9039
SD-5:A4

P7501A
TO NAADIS-9085
SD-13:B2

TO NAHDM-9114(5/5)
SD-19:H4

TO NARF-9077
SD-12:H2

TO NALAN-9121
SD-27:G4

TO NARF-9118
SD-28:H3(DC Type)
OR
TO TUNER UNIT
(DT,MP,MT Type)

TO NAVD-9052 SD-6:F1

TO NAASP-9050(2/2)
SD-2:B5

TO NAASP-9050(2/2)
SD-2:C5

TO NAETC-9056
SD-7:D5

TO NAETC-9056
SD-7:D4

TO NAETC-9056
SD-7:D3

TO NAETC-9056
SD-7:D3

SCHEMATIC DIAGRAMS-9 (SD-9) DAC SECTION

A B C D

1

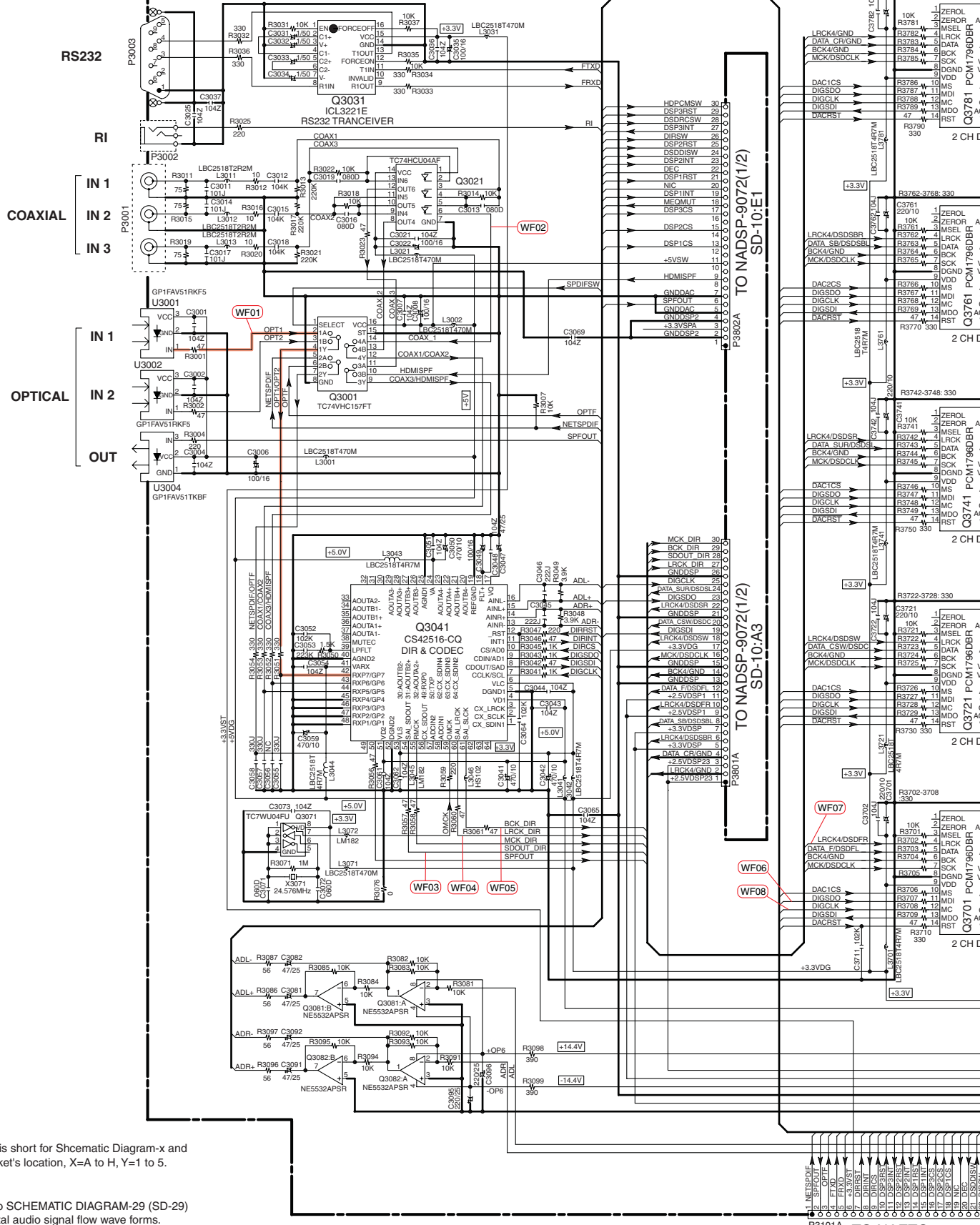
2

3

4

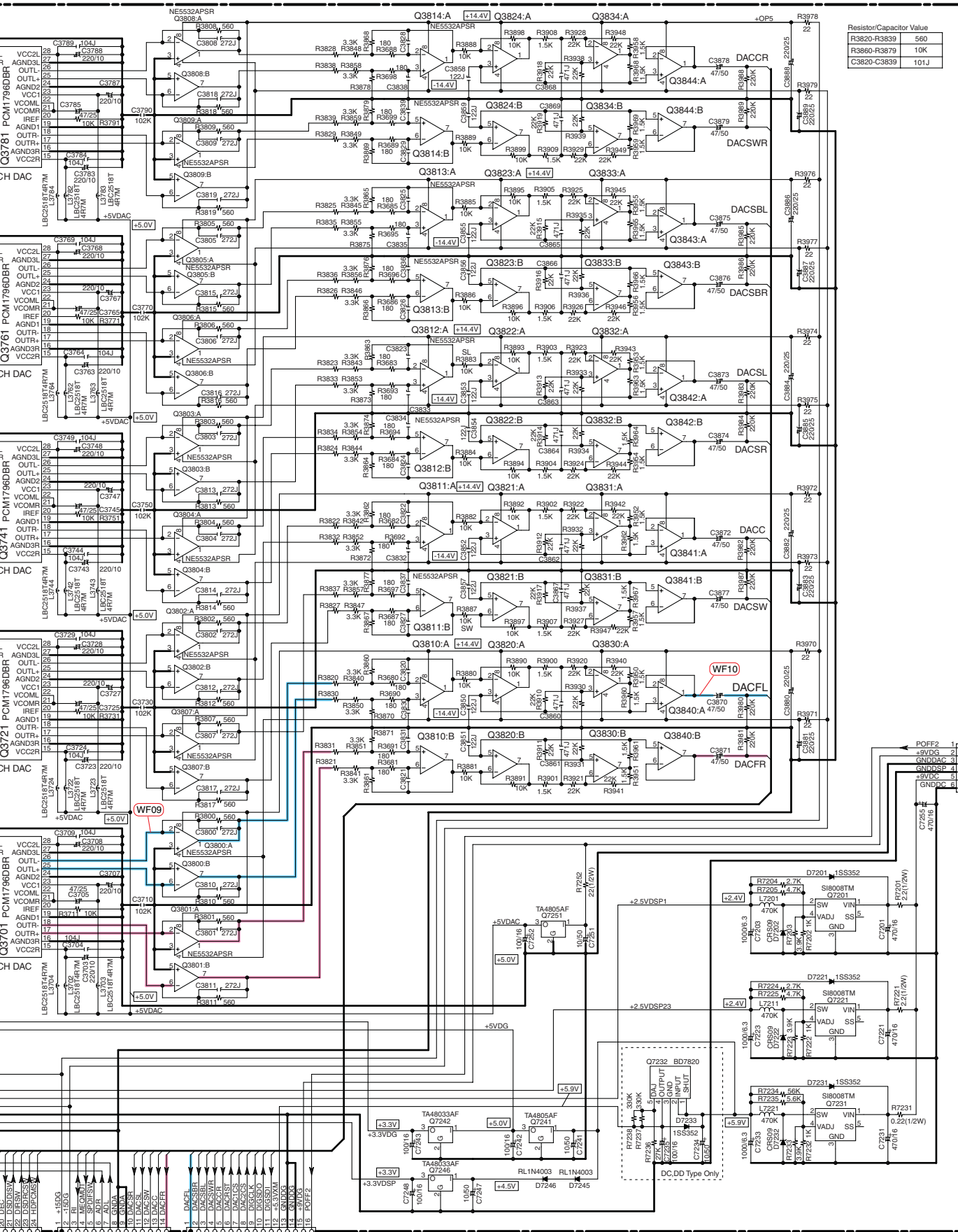
5

NADG-9074 U27 DAC PC BOARD



<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

<Note>
1. Refer to SCHEMATIC DIAGRAM-29 (SD-29) for digital audio signal flow wave forms.
2. (WF01) is short for (WaveForm01).



Resistor/Capacitor Value	
R3820-R3839	560
R3860-R3879	10K
C3820-C3839	101J

TO NAPS-9089
SD-14:H4

JL9501A

P3102A TO NAETC-9056 SD-7:C4

P3103A TO NAETC-9056 SD-7:C3

SCHEMATIC DIAGRAMS-10 (SD-10)
DSP SECTION-1

TO NAHDM-9114(5/5)
SD-19:H4

TO M...

1

2

3

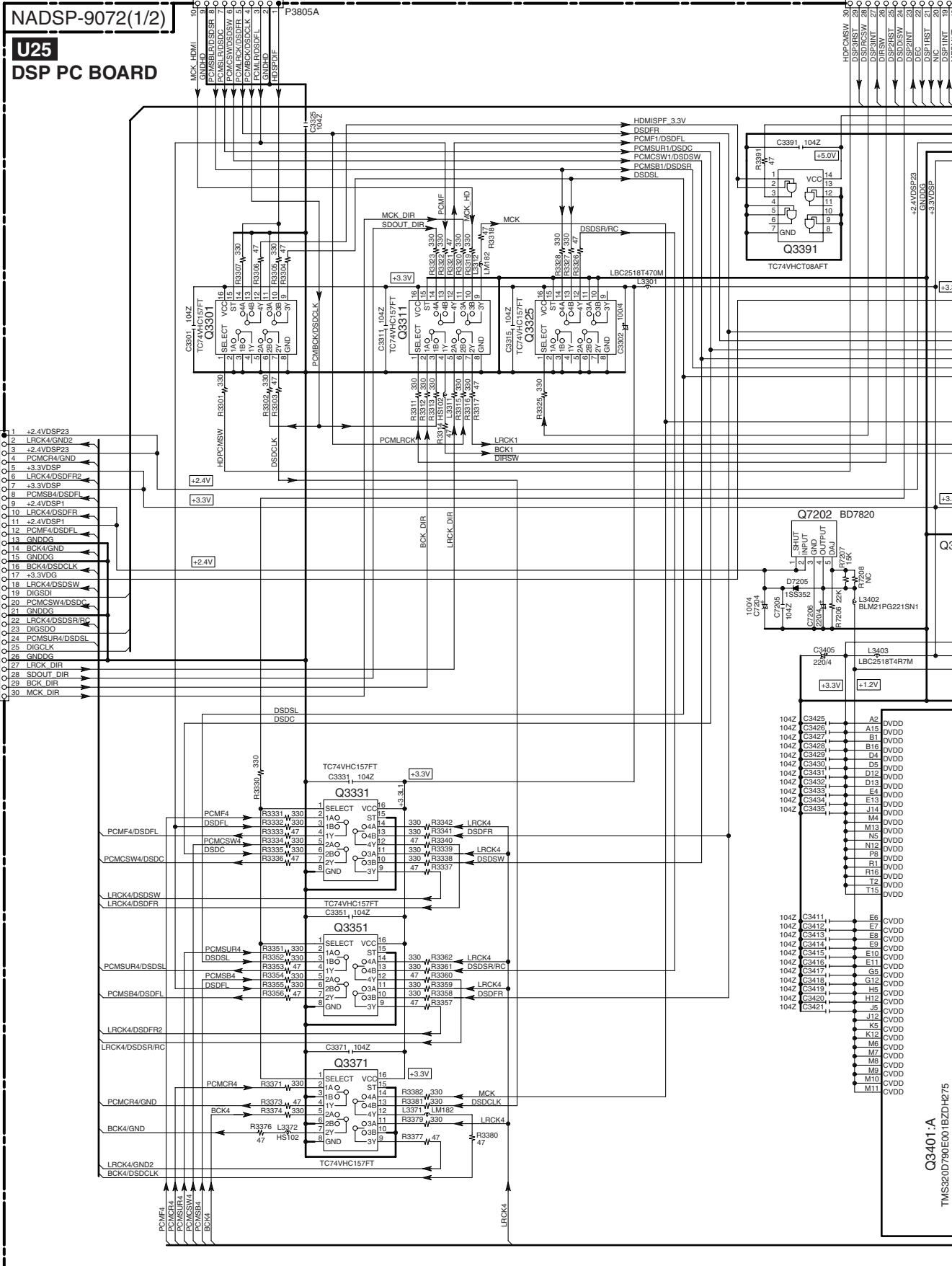
4

5

NADSP-9072(1/2)

U25
DSP PC BOARD

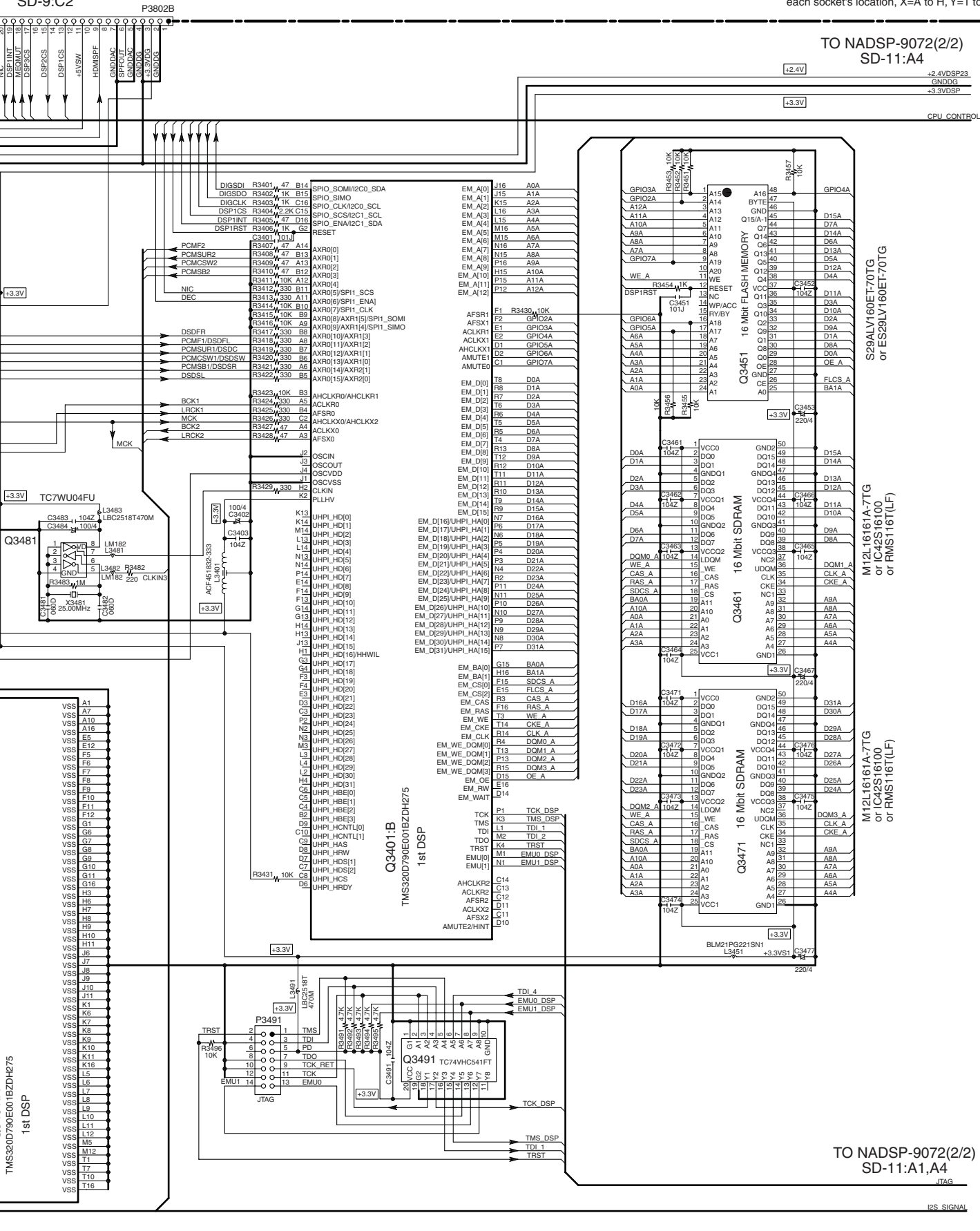
TO NADG-9074
SD-9:C3



Q3401:A
TMS320D790E01BZDH275

TO NADG-9074 SD-9:C2

-Notes- SD-x:Y is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.



TO NADSP-9072(2/2) SD-11:A4

TO NADSP-9072(2/2) SD-11:A1,A4

JTAG

I2S SIGNAL

A

B

C

D

SCHEMATIC DIAGRAMS-11 (SD-11) DSP SECTION-2

1

NADSP-9072(2/2)

U25 DSP PC BOARD

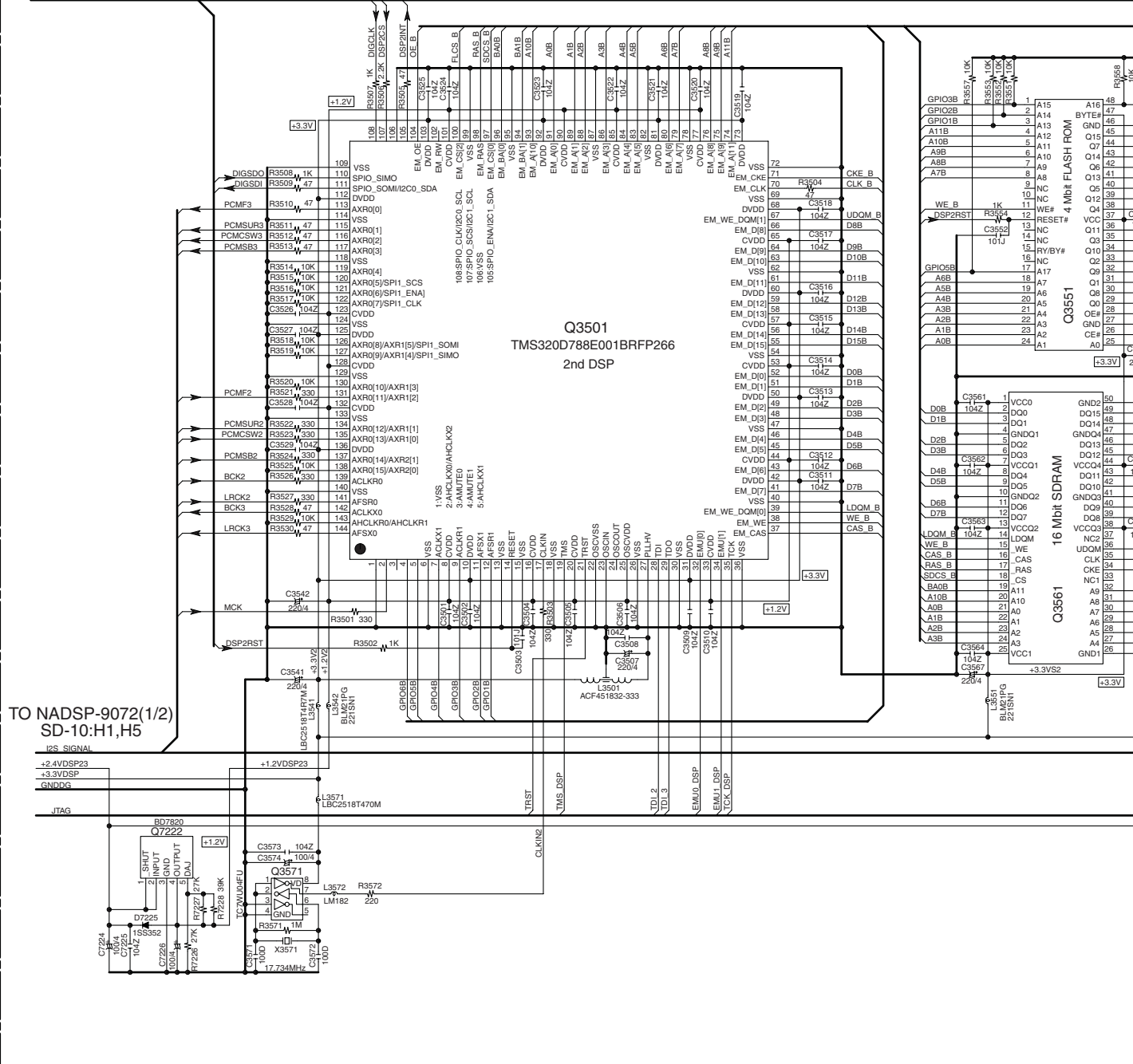
TO NADSP-9072(1/2)
SD-10:H1
CPU CONTROL

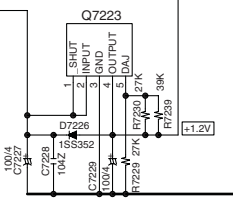
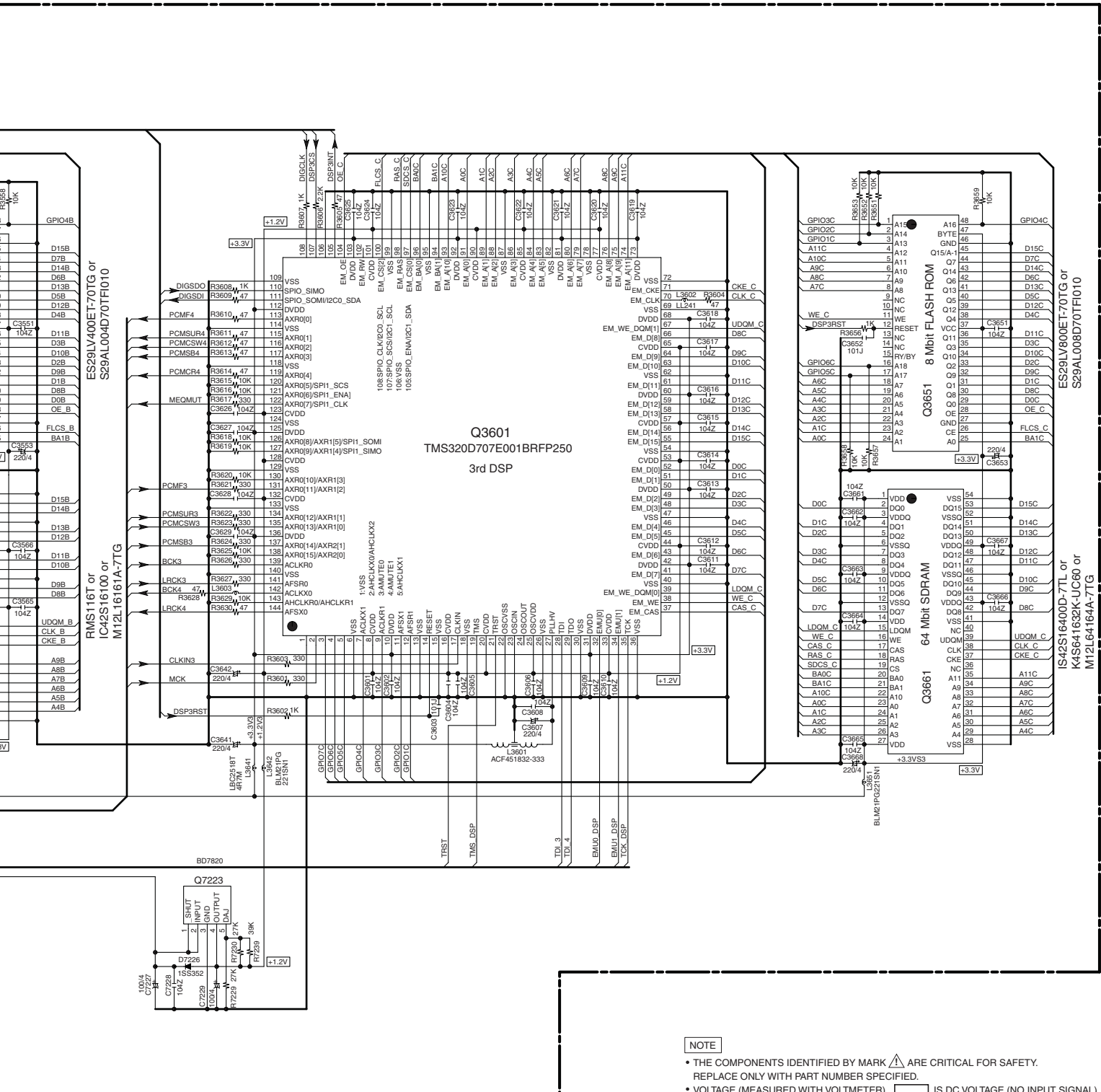
2

3

4

5





- NOTE**
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 - 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 ($\text{---} \text{---} \text{---}$) ARE IN $\mu\text{F}/\text{VW}$.
 - ALL CAPACITORS ARE IN $\text{pF}/50\text{WV}$ UNLESS OTHERWISE NOTED.
EX) 030-3pF, 330-33pF, 331-330pF, 333-0.033 μF
 - 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>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

A

B

C

D

SCHEMATIC DIAGRAMS-12 (SD-12)
XM/SIRIUS SECTION

1

2

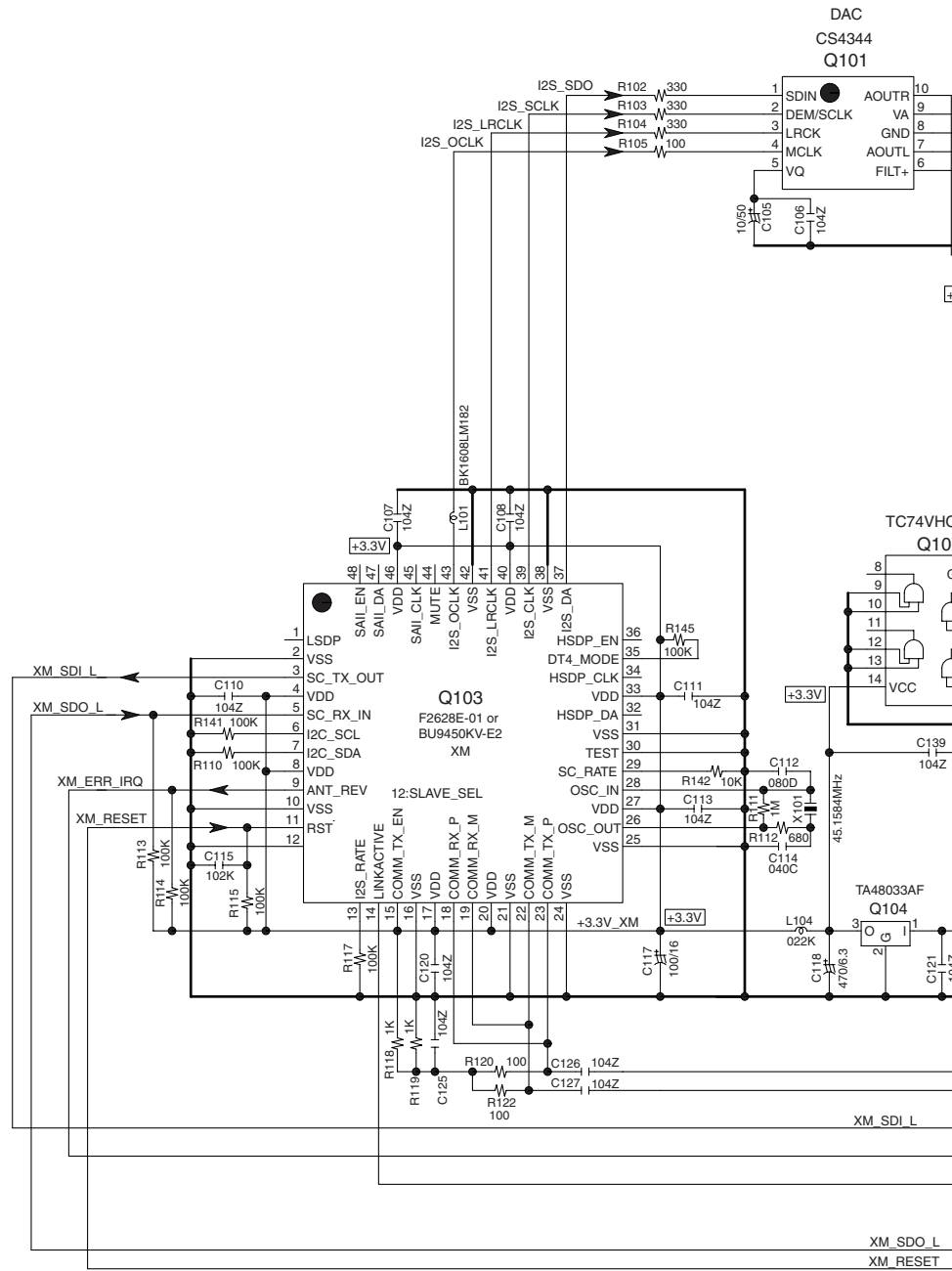
3

4

5

NARF-9077

U30 XM PC BOARD



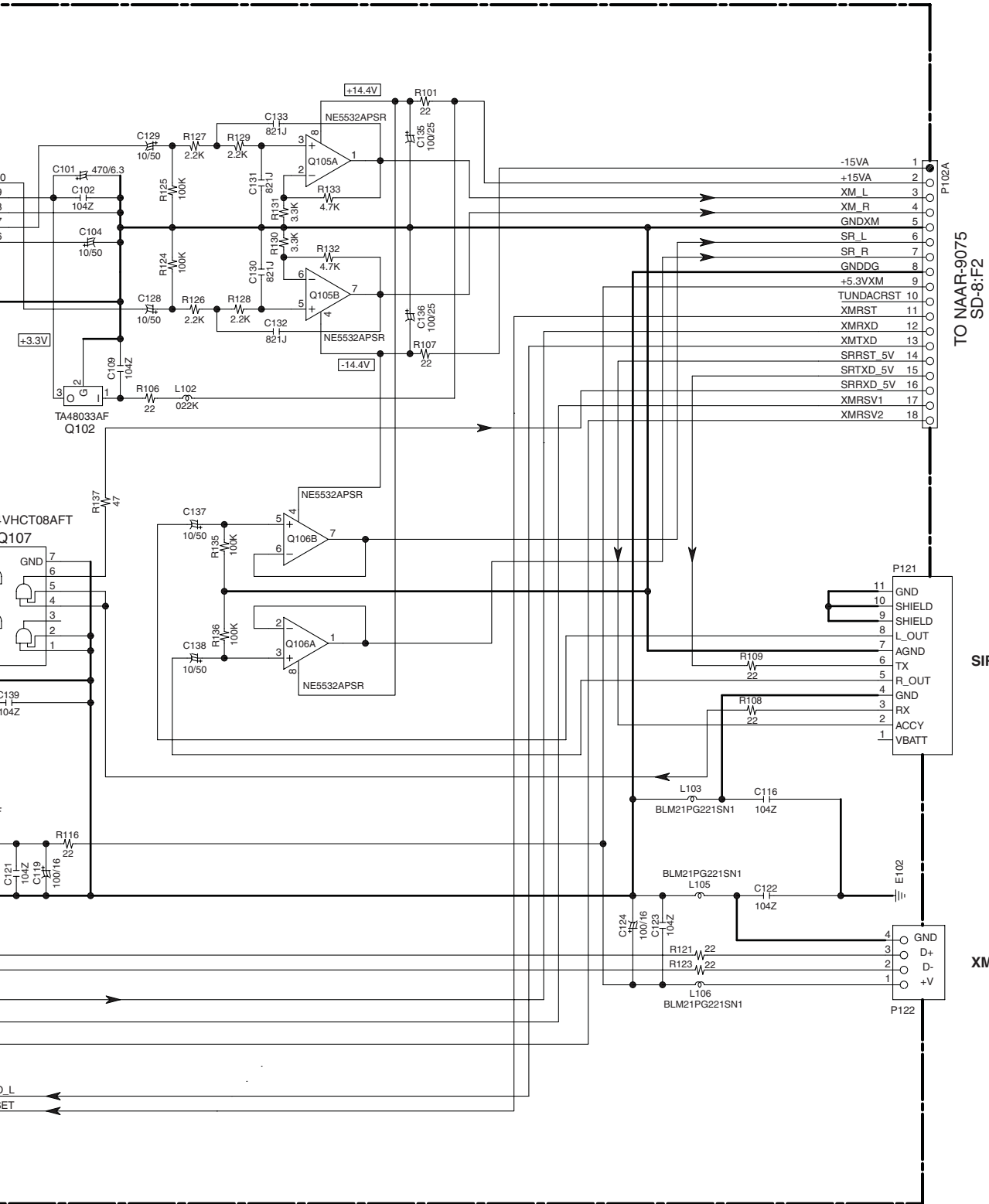
<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

E

F

G

H



A

B

C

D

SCHEMATIC DIAGRAMS-13 (SD-13)
DISPLAY SECTION

NADIS-9085 U33 DISPLAY PC BOARD

1

<Note>
 SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

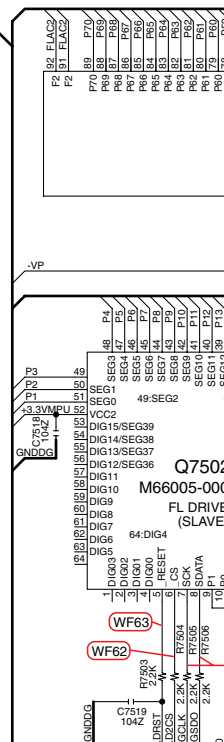
- THE COMPONENTS IDENTIFIED BY MARK \triangle ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) \square IS DC VOLTAGE. (NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (---) ARE IN μF .
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
 EX) 030-3pF, 330-33pF, 331-330pF, 333-0.033 μF
- 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.

2

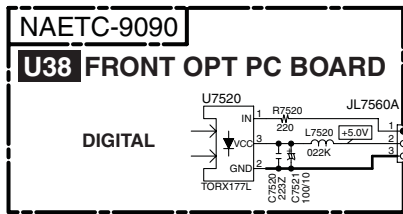
<Note>
 Refer to SCHEMATIC DIAGRAM-29 (SD-29) for FL driver IC control waveforms.

TO NAAR-9075 SD-8:H2

TO NAPS-9089 SD-14:H5



3



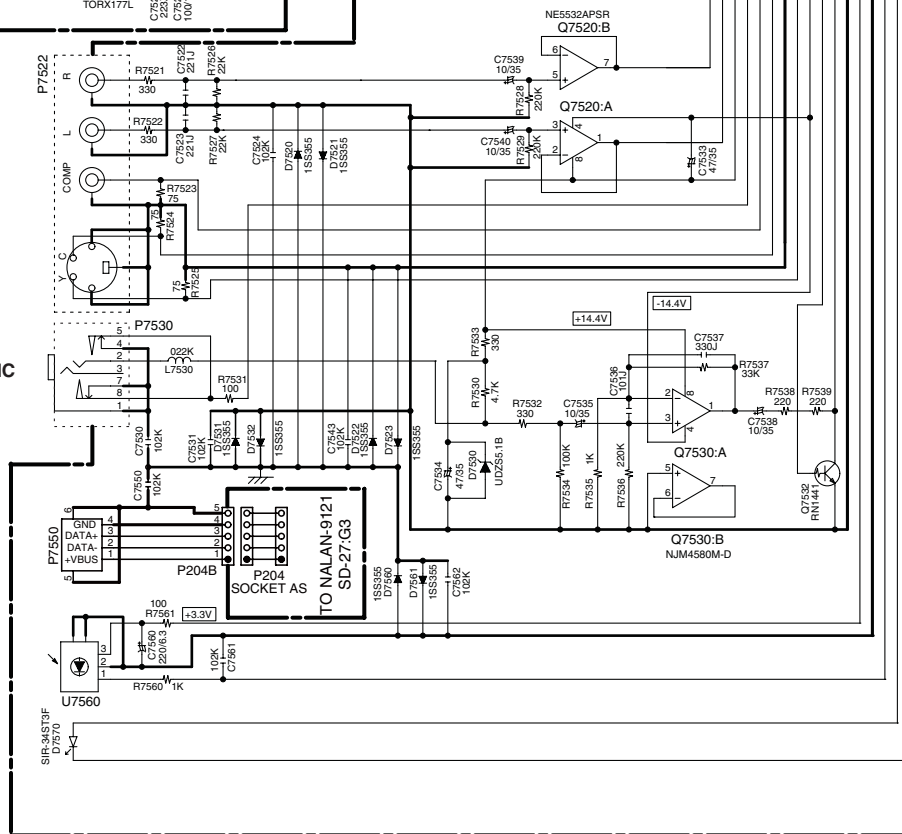
4

AUX 2 INPUT (FRONT)

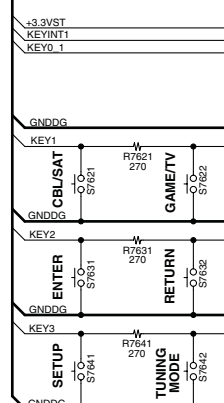
AUDIO
VIDEO
S VIDEO

SETUP MIC

USB



5

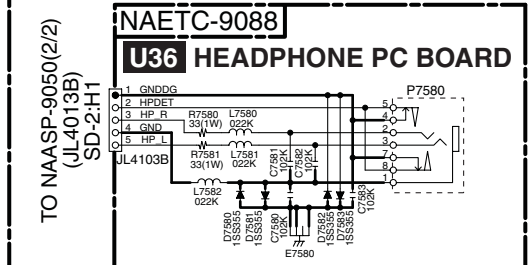
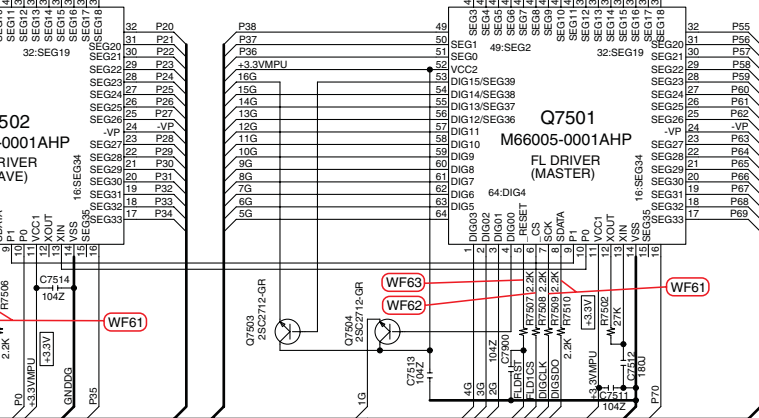
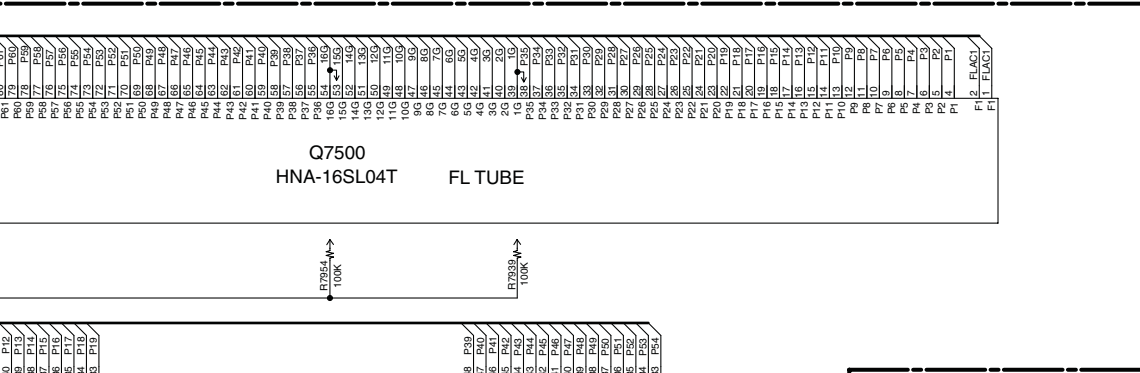


E

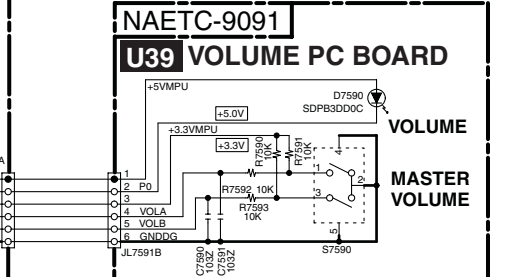
F

G

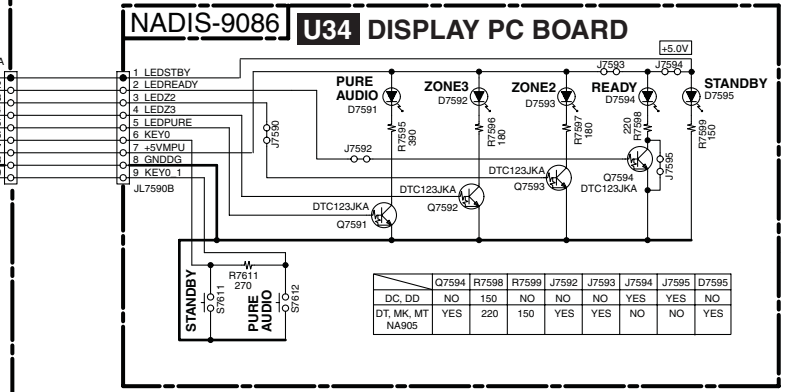
H



HEADPHONE

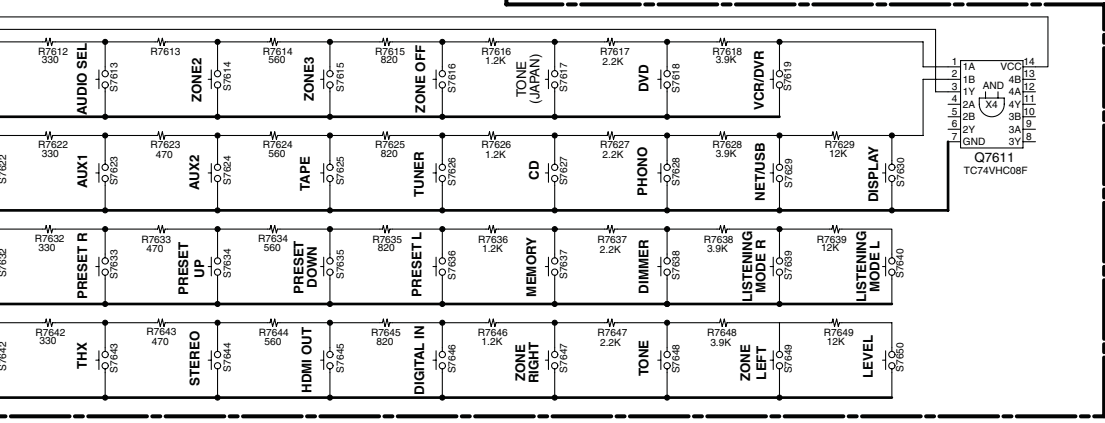


VOLUME
MASTER VOLUME



	Q7594	R7598	R7599	J7592	J7593	J7594	J7595	D7595
DC, DD	NO	150	NO	NO	NO	NO	YES	NO
DT, MK, MT	YES	220	150	YES	YES	NO	NO	YES
NA905								

SELECTOR KEYS



SCHEMATIC DIAGRAMS-14 (SD-14)
POWER SUPPLY SECTION-2

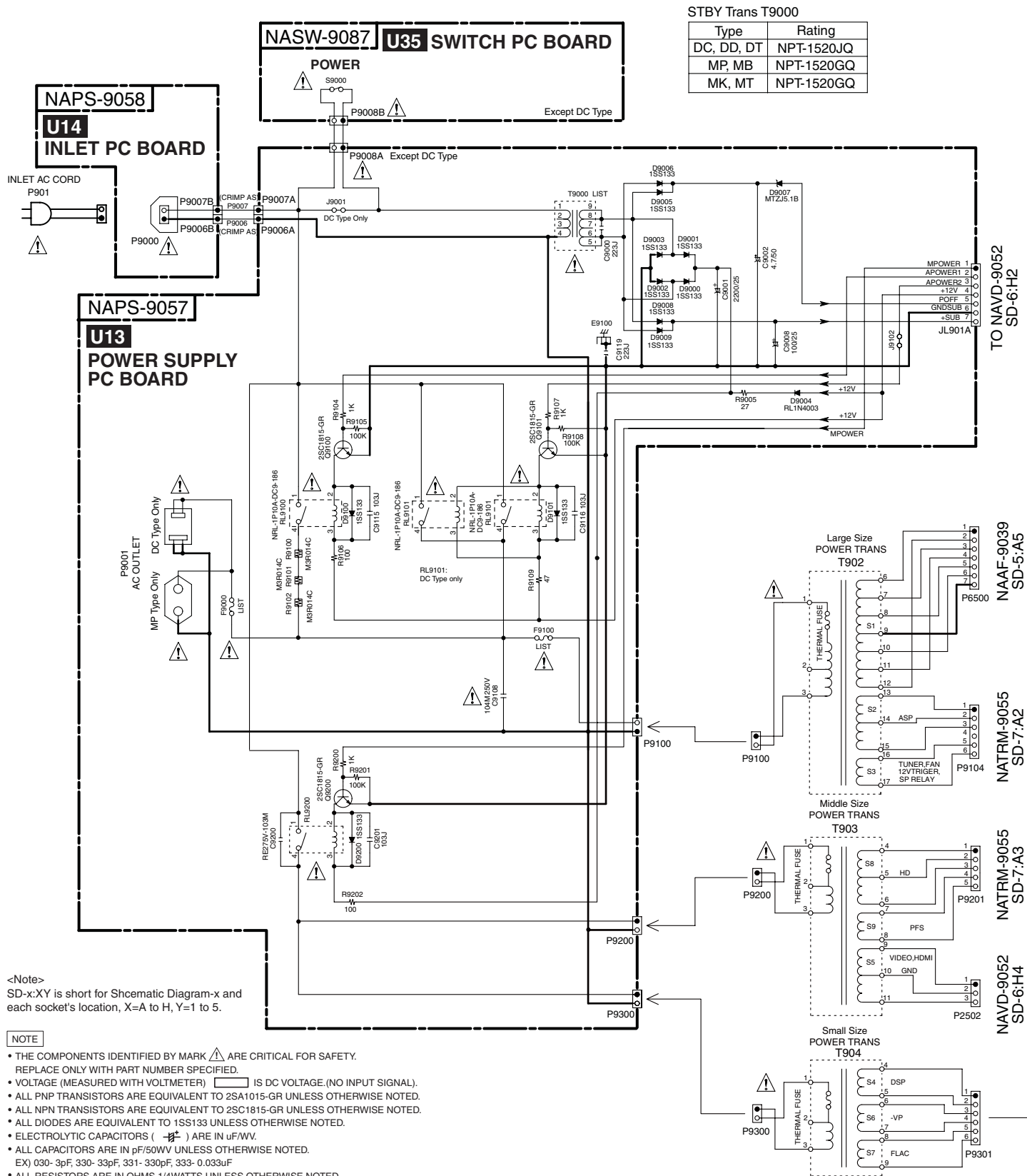
1

2

3

4

5



STBY Trans T9000

Type	Rating
DC, DD, DT	NPT-1520JQ
MP, MB	NPT-1520GQ
MK, MT	NPT-1520GQ

<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE. (NO INPUT SIGNAL).
- 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 () ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

TO NAVD-9052
SD-6:H2

NAAF-9039
SD-5:A5

NATRM-9055
SD-7:A2

NATRM-9055
SD-7:A3

NAVD-9052
SD-6:H4

CAUTION

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



ATTENTION

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



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



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

AC Volt / Freq.

Type	Volt / Freq.
DC, DD, DT	120V 60HZ
MP, MB	220-240V 50HZ
MK, MT	220-240V 50/60HZ

Fuse Rating

Type	F9100	F9000
DC, DD	12A 125V	5A 125V
DT	12A 125V	NO
MP	6.3A 250V	2.5A 250V
MT, NA906	6.3A 250V	NO

Power Trans T902

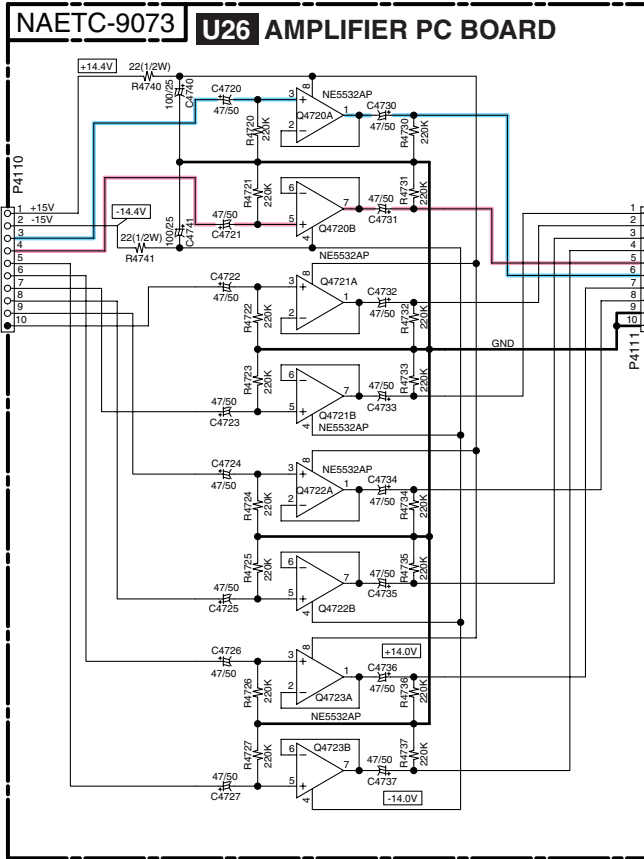
Type	Rating
DC, DD, DT	NPT-1554D
MP	NPT-1554M
MT, NA906	NPT-1554M

Power Trans T903

Type	Rating
DC, DD, DT	NPT-1555D
MP	NPT-1555M
MT, NA906	NPT-1555M

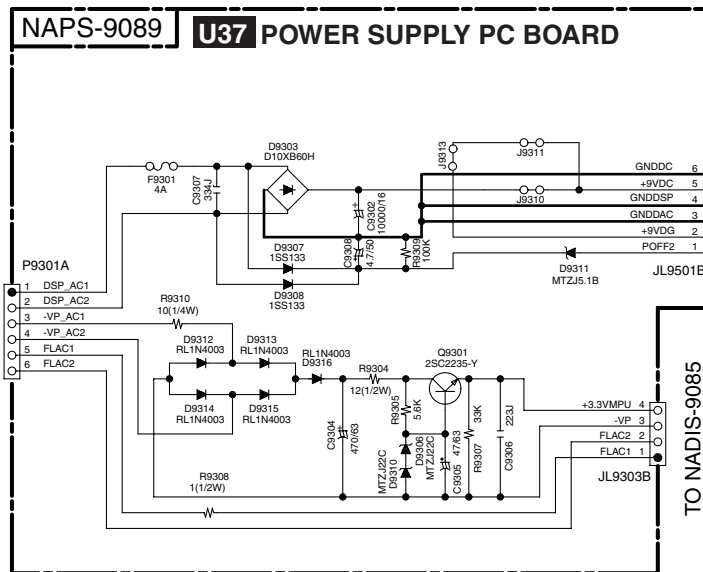
Power Trans T904

Type	Rating
DC, DD, DT	NPT-1556D
MP	NPT-1556M
MT, NA906	NPT-1556M



TO NAASP-9050(2/2)
SD-2:A3

TO NAASP-9050(2/2)
SD-2:A3



TO NADG-9074
SD-9:H4

TO NADIS-9085
SD-13:B1

A

B

C

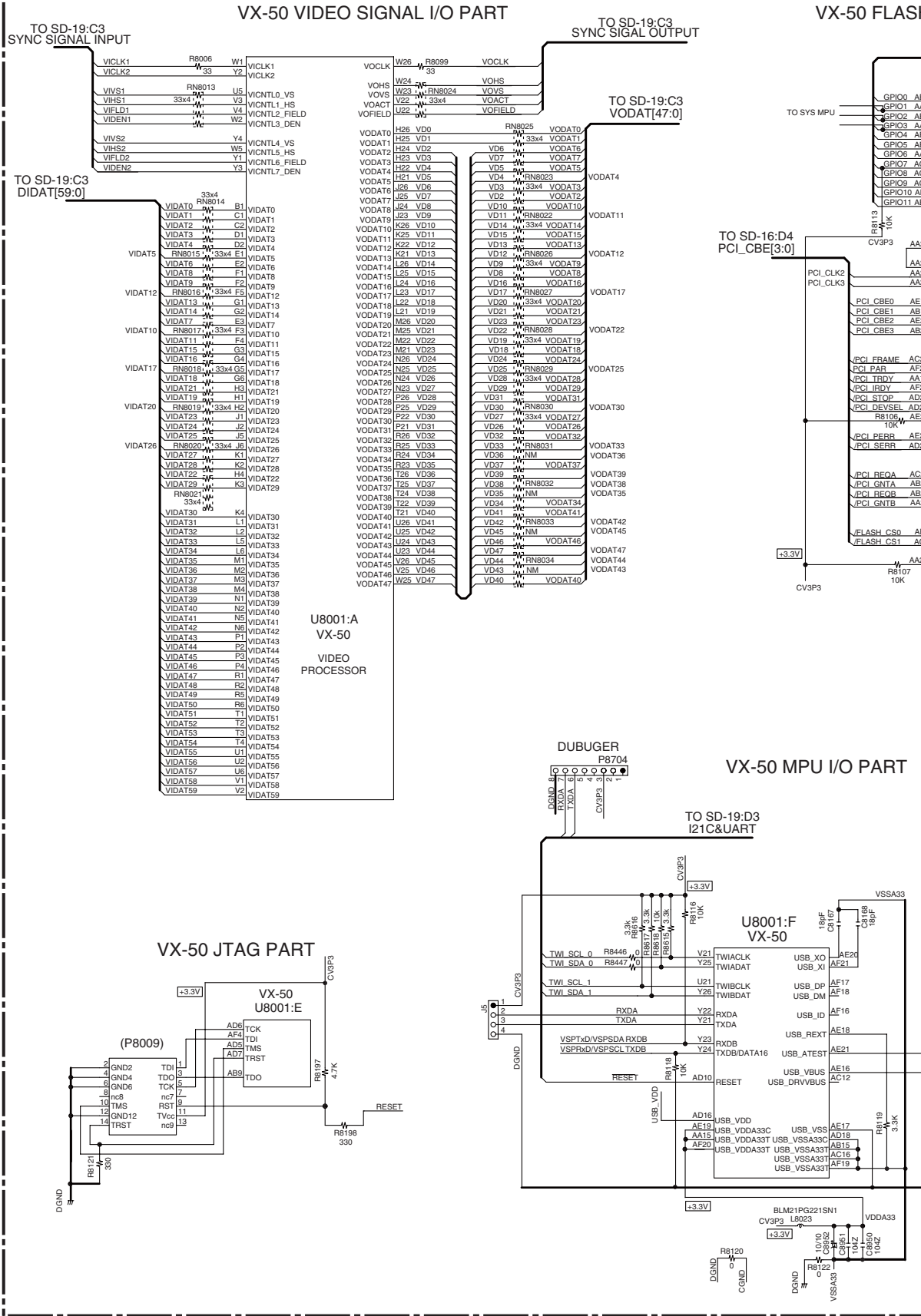
D

SCHEMATIC DIAGRAMS-15 (SD-15)

HDMI SECTION-1

NAHDM-9114(1/5)

U42 HDMI PC BOARD



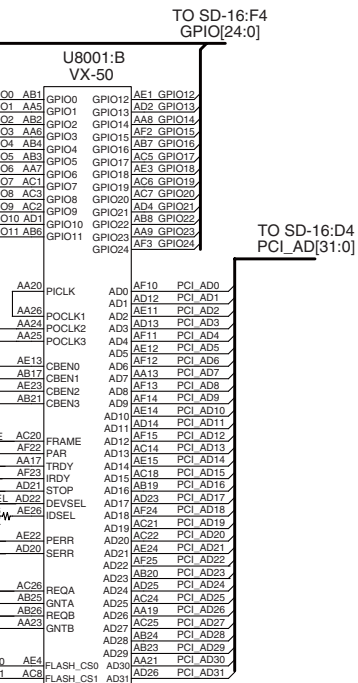
E

F

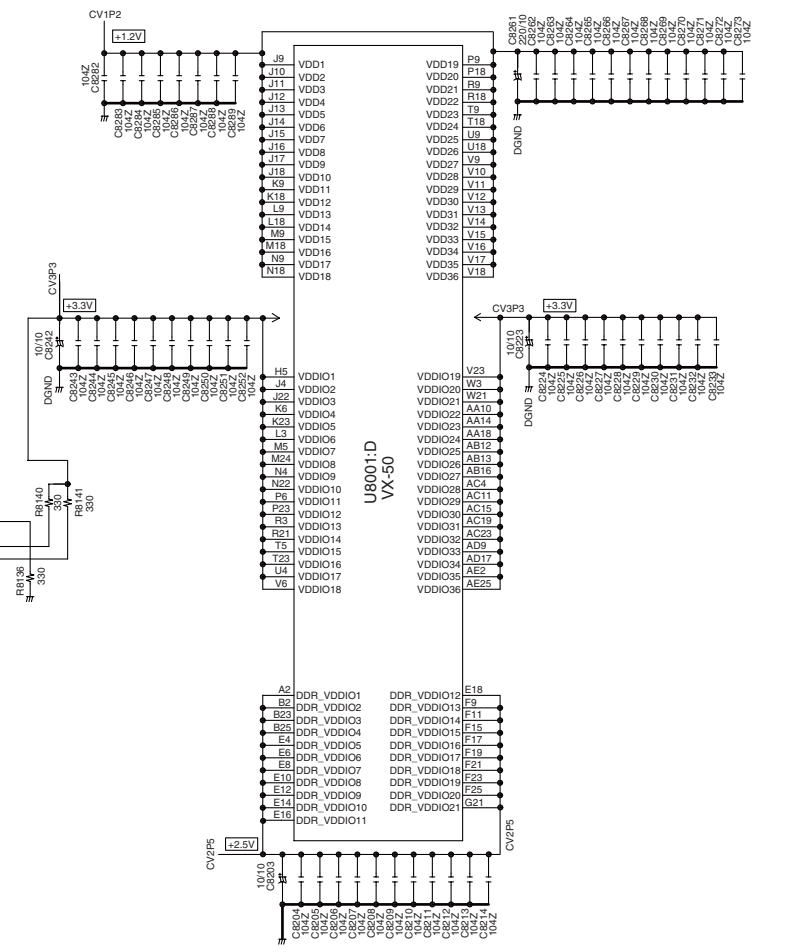
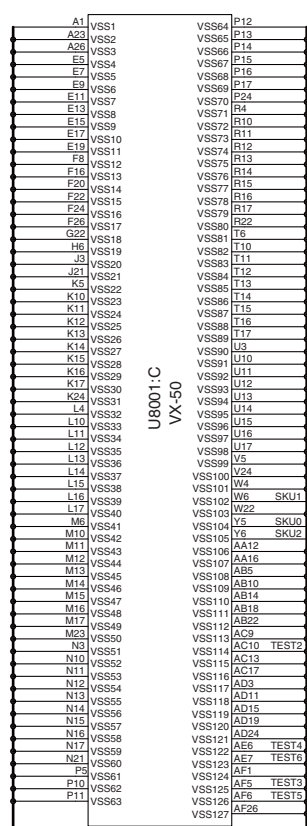
G

H

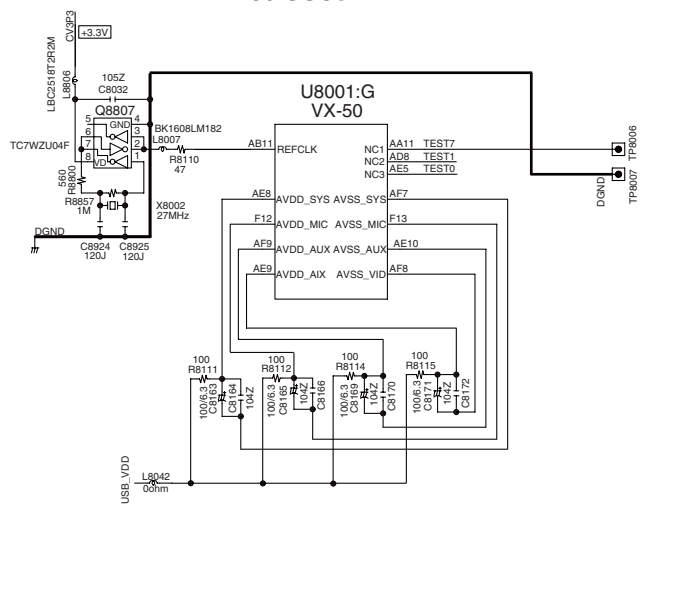
CASH MEMORY I/O PART



VX-50 POWER SUPPLY & GROUND PART



VX-50 OSC&PLL PART



<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

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

A

B

C

D

SCHEMATIC DIAGRAMS-16 (SD-16)
HDMI SECTION-2

NAHDM-9114(2/5) U42 HDMI PC BOARD

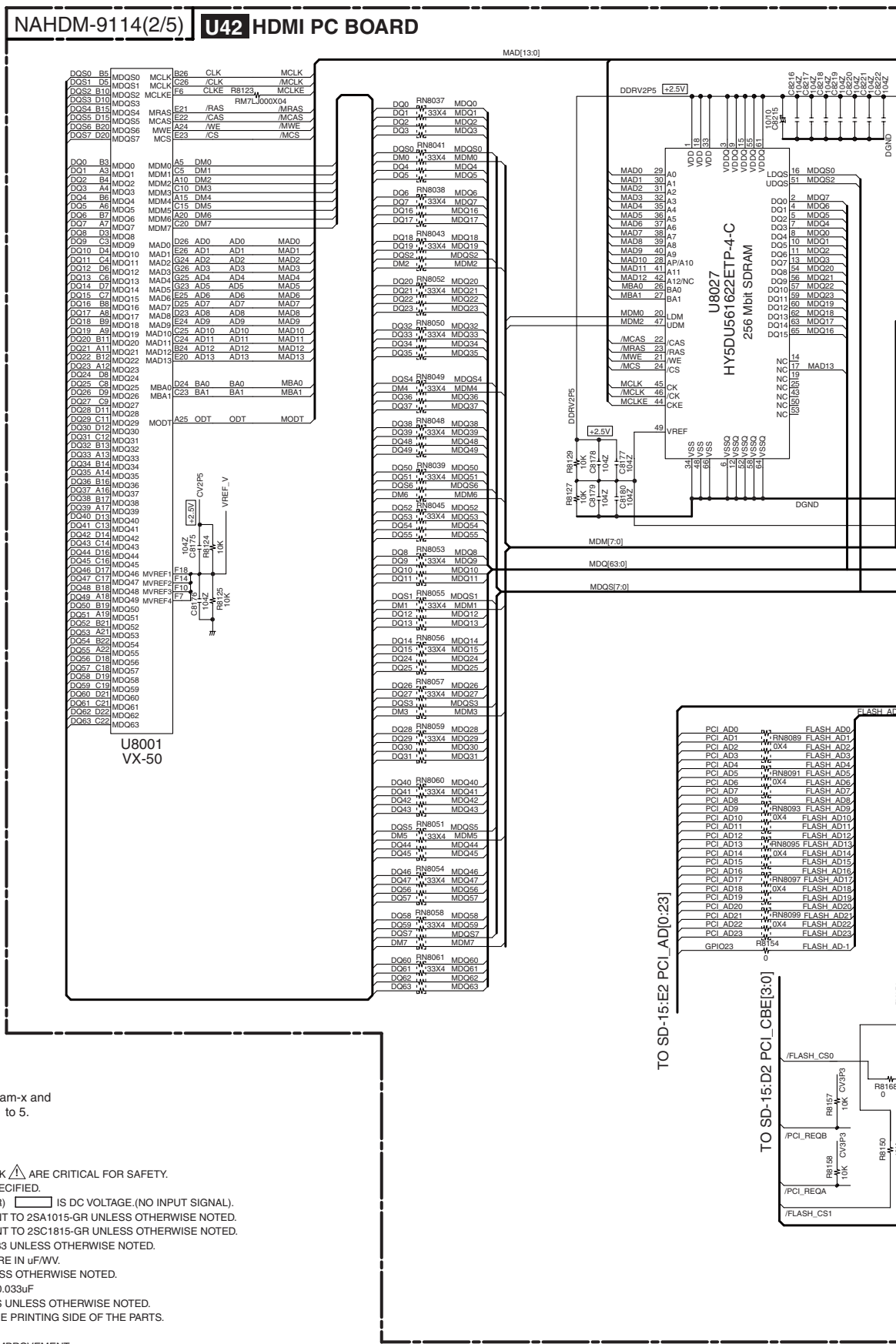
1

2

3

4

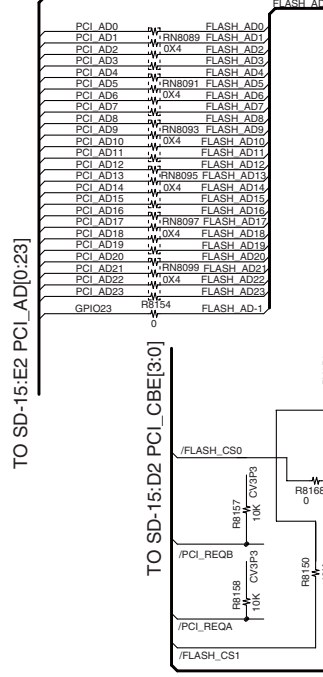
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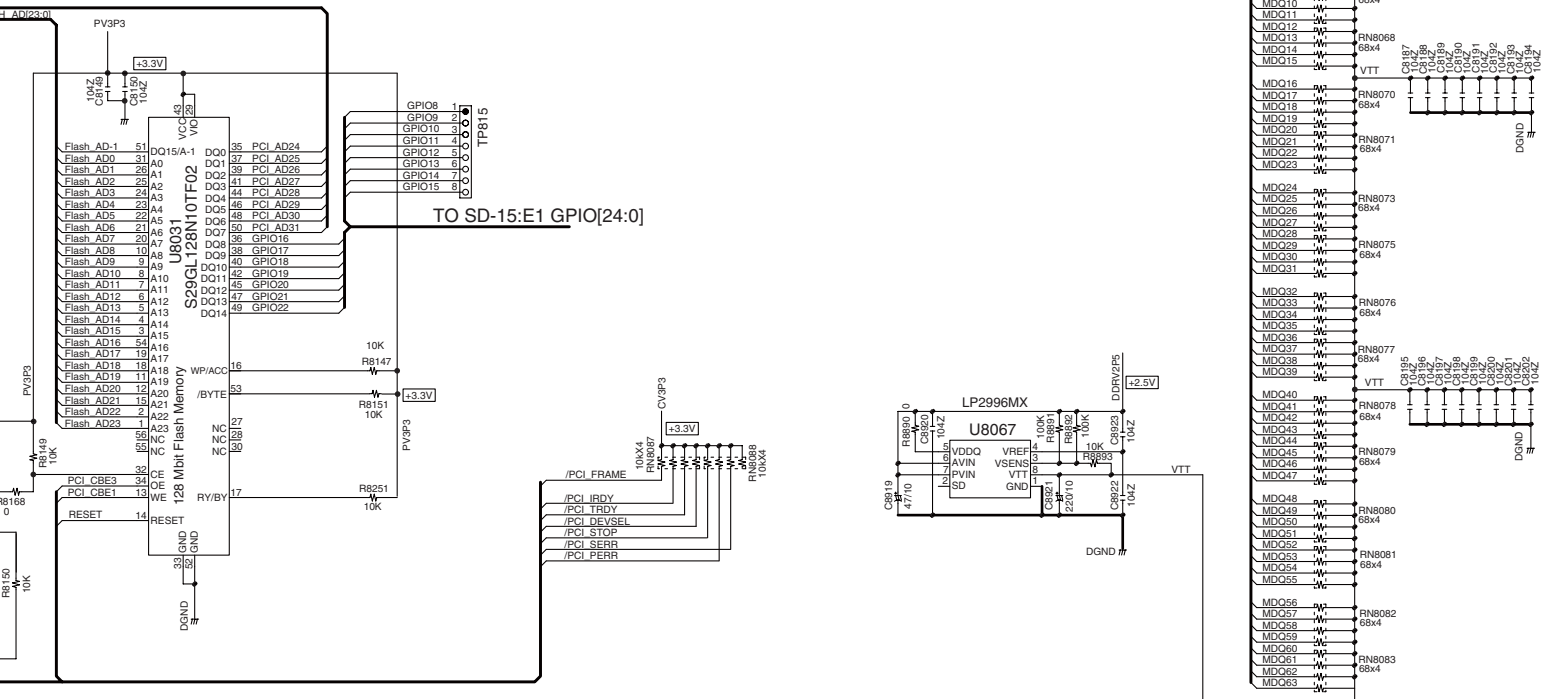
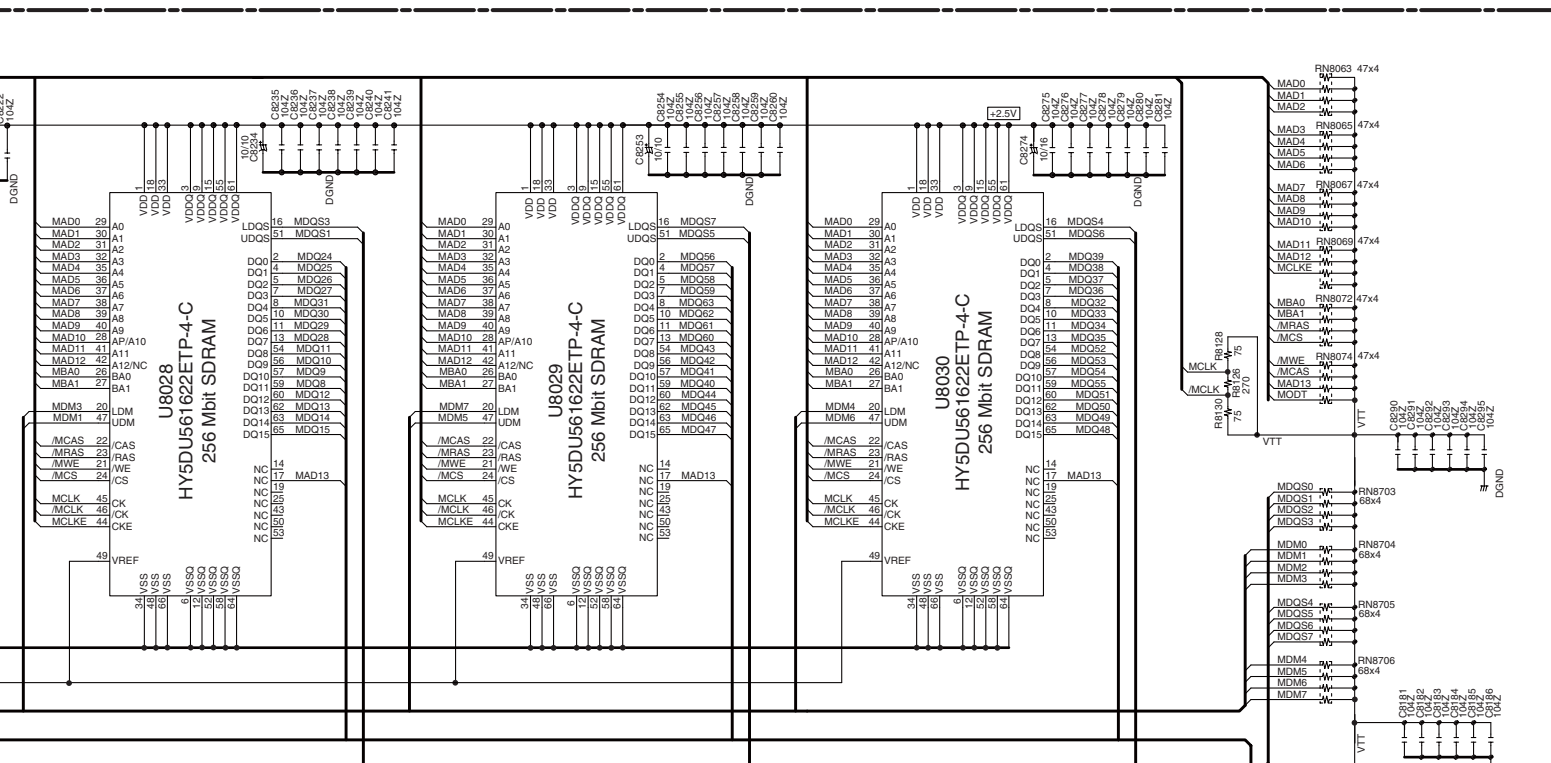


<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

- THE COMPONENTS IDENTIFIED BY MARK Δ 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 (---) ARE IN μ F/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033 μ 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) --- PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.





A

B

C

D

SCHEMATIC DIAGRAMS-17 (SD-17)
HDMI SECTION-3

NAHDM-9114(3/5) U42 HDMI PC BOARD

1

2

3

4

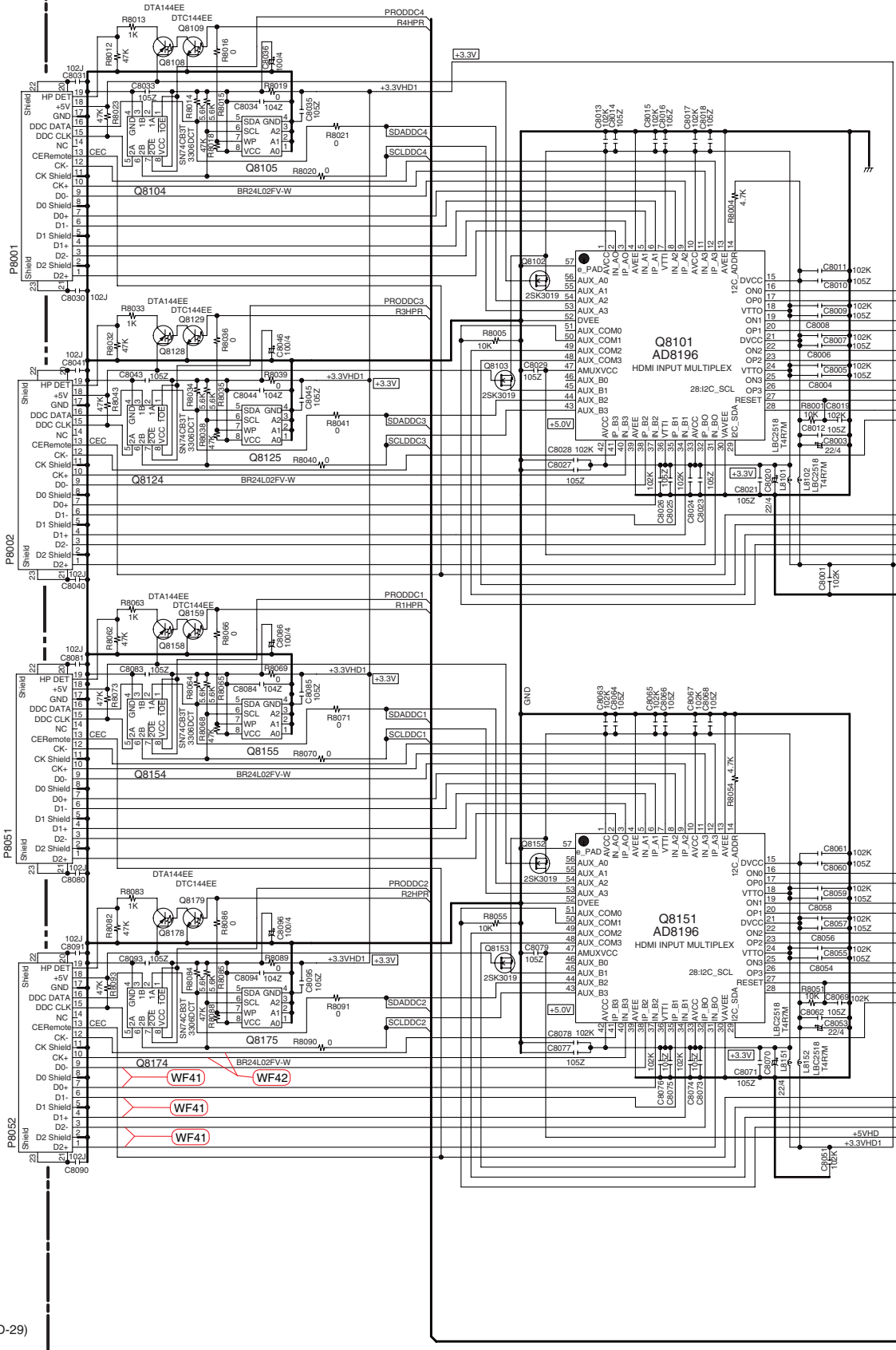
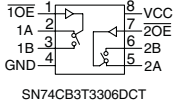
5

HDMI IN 4

HDMI IN 3

HDMI IN 2

HDMI IN 1

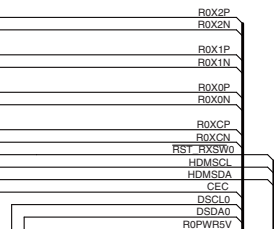


<Note>
Refer to SCHEMATIC DIAGRAM-29 (SD-29)
for HDMI signal waveforms.

<Note>
SD-x:XY is short for Shcematic Diagram-x and
each socket's location, X=A to H, Y=1 to 5.

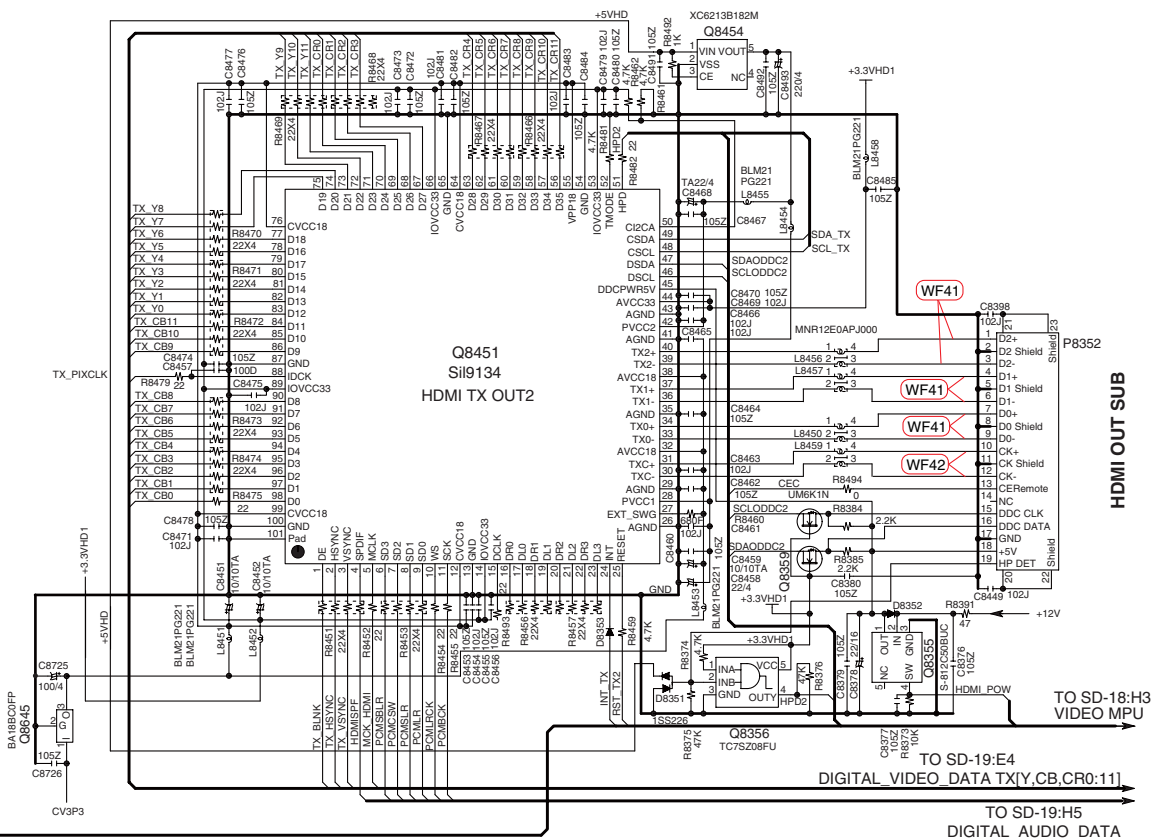
NOTE

- THE COMPONENTS IDENTIFIED BY MARK \triangle 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 uF/WV.
- ALL CAPACITORS ARE IN pF/50VW UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) $\square \square \square$ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.



+5VHD
+3.3VHDI
GND

TO SD-18:B2
TMDS/DDC DATA



BA18BC0FP
C8645

CV3P3

HDMI OUT SUB

TO SD-18:H3
VIDEO MPU

TO SD-19:E4
DIGITAL_VIDEO_DATA TX[Y,CB,CRO:11]

TO SD-19:H5
DIGITAL_AUDIO_DATA

**SCHEMATIC DIAGRAMS-18 (SD-18)
HDMI SECTION-4**

NAHDM-9114(4/5)

U42 HDMI PC BOARD

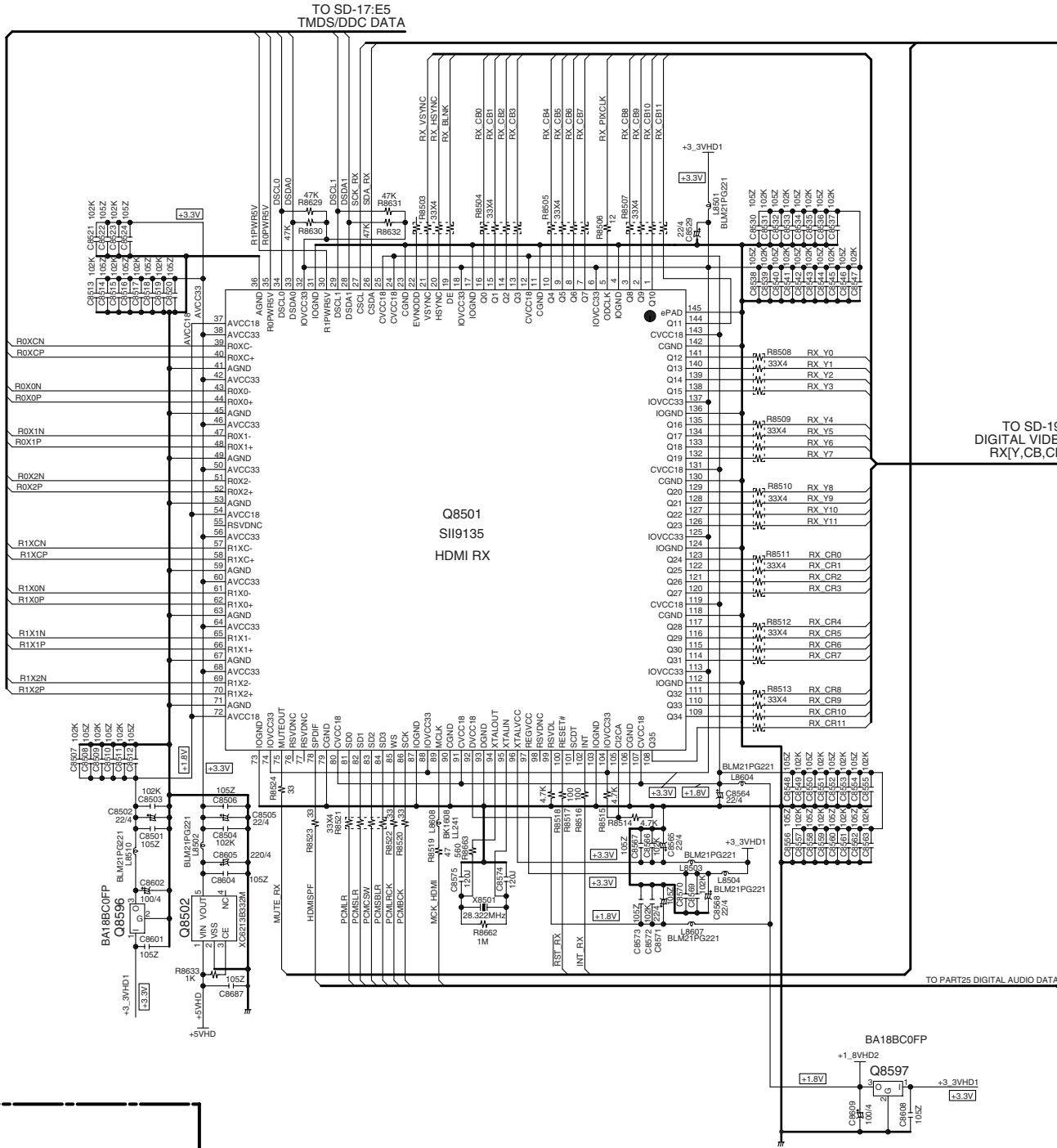
1

2

3

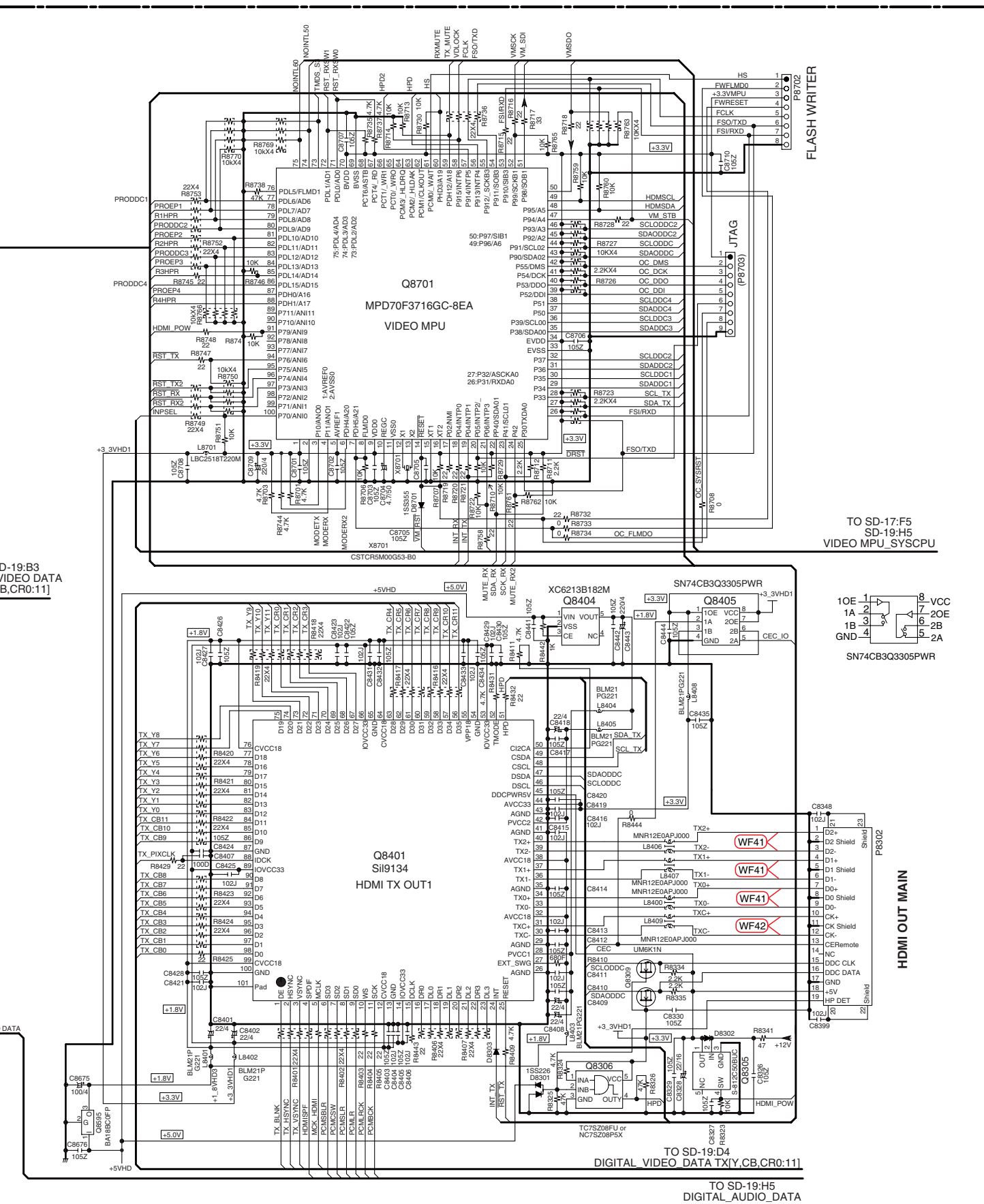
4

5



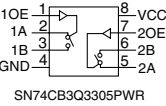
<Note>
Refer to SCHEMATIC DIAGRAM-29 (SD-29)
for HDMI signal waveforms.

<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.



D-19:B3
VIDEO DATA
B.CR0:11

TO SD-17:F5
SD-19:H5
VIDEO MPU_SYSCPU

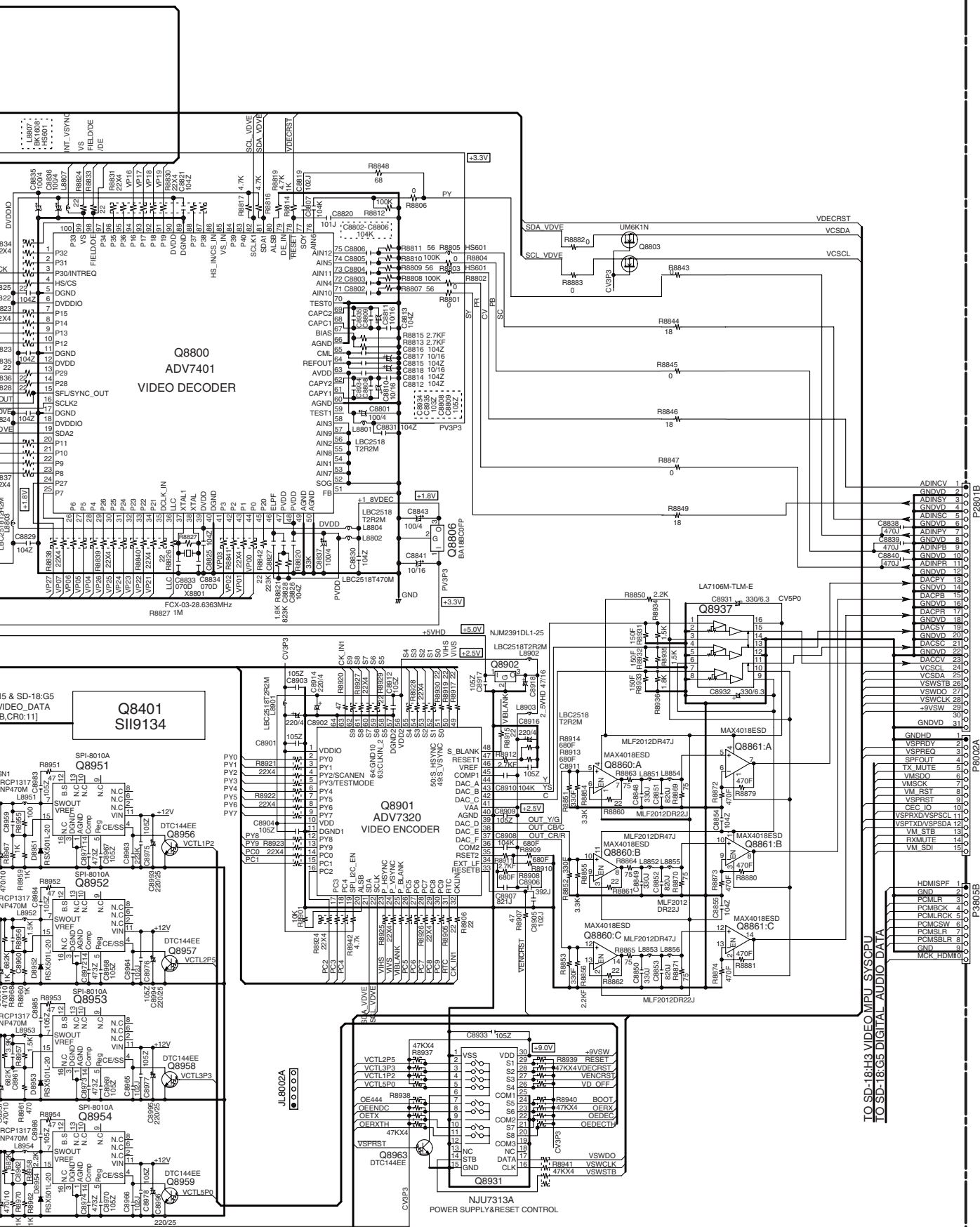


HDMI OUT MAIN

TO SD-19:D4
DIGITAL_VIDEO_DATA TXIY.CB.CR0:11

TO SD-19:H5
DIGITAL_AUDIO_DATA

<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.



TO NAVD-9052
SD-6:F2

TO NAAR-9075
SD-8:G1

TO NADSP-9072
SD-10:B1

TO SD-18:H3 VIDEO MPU SYS CPU
TO SD-18:G5 DIGITAL AUDIO DATA

P2801B

P8002A

P3805B

SCHEMATIC DIAGRAMS-20(SD-20)
NETWORK SECTION-1

1
2
3
4
5

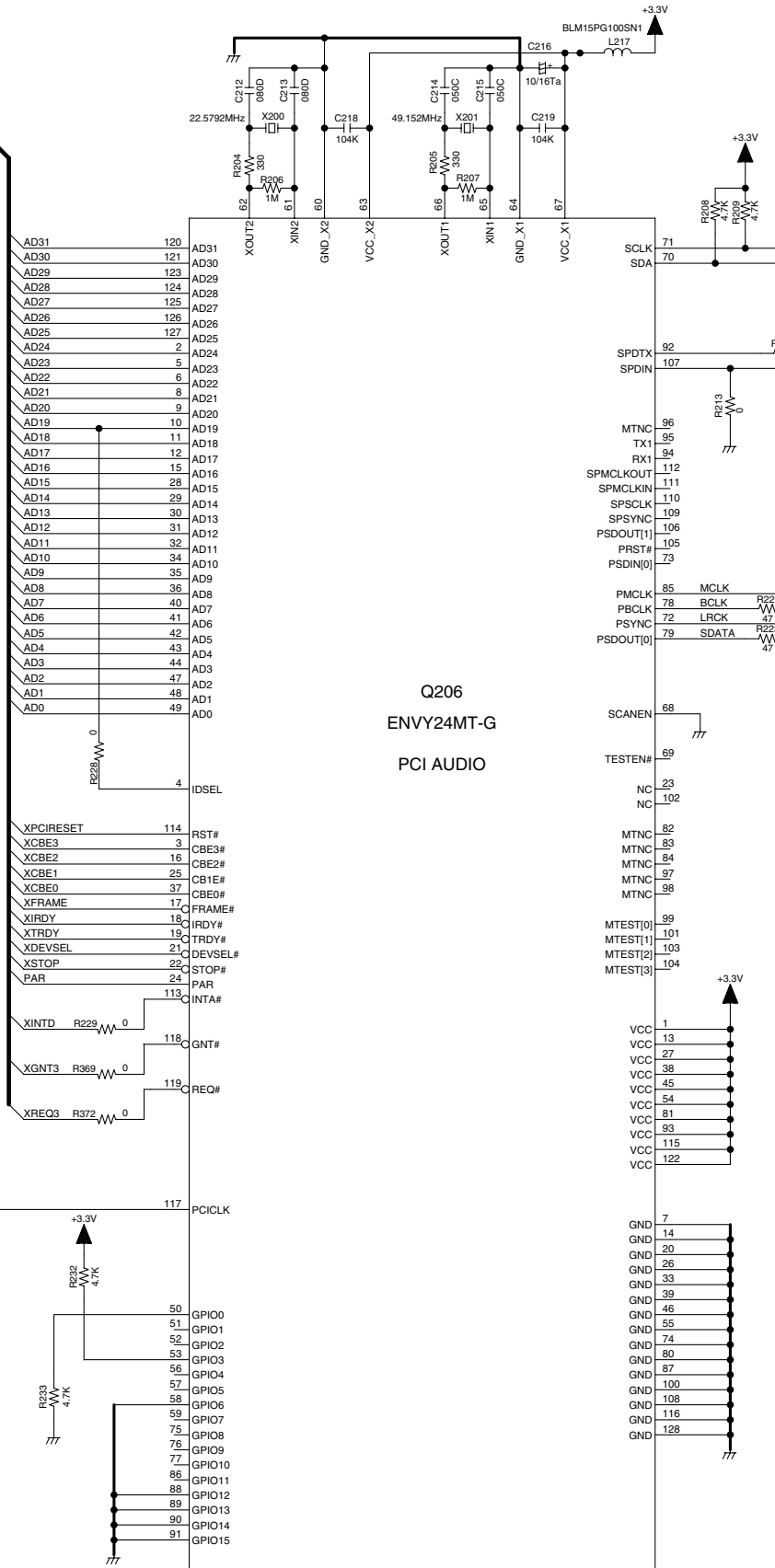
NALAN-9121(1/8)

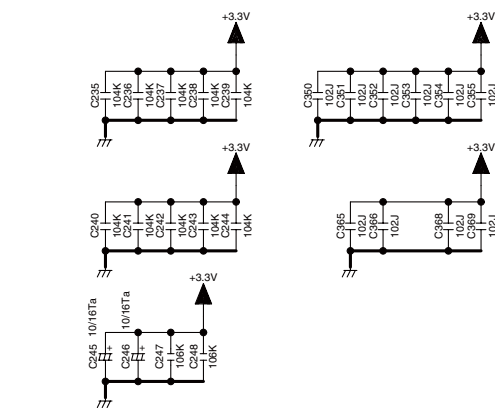
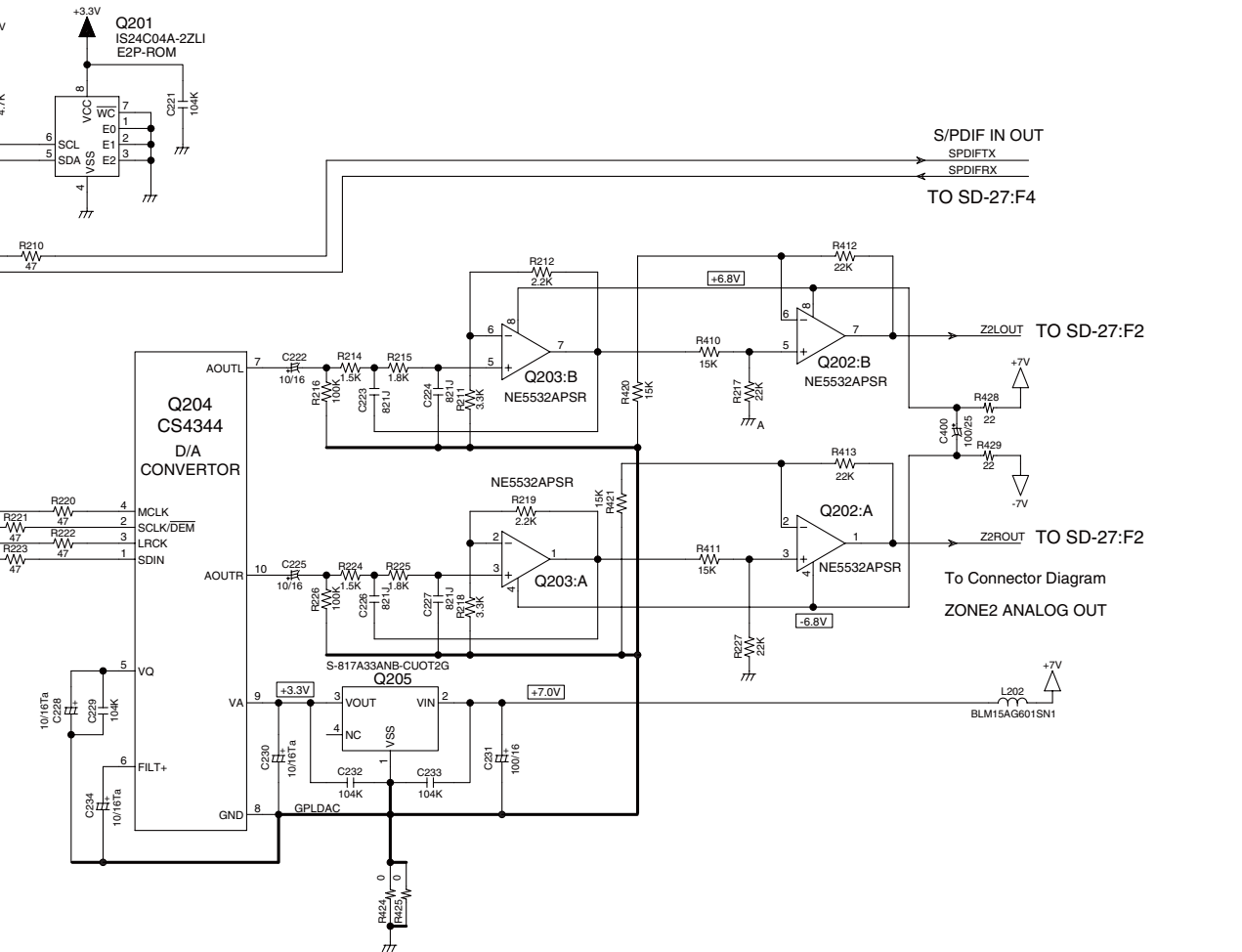
U44 LAN PC BOARD

TO SD-21:A1
PCI BUS
PCICLK3
TO SD-27:E1

IDSEL=AD19
DEVICE No H'3

INT=INTD
REQ=3
GNT=3





<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

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- VOLTAGE (MEASURED WITH VOLTMETER) 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 () ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

A

B

C

D

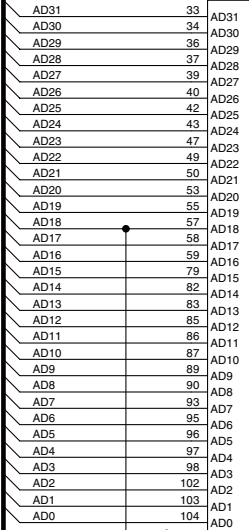
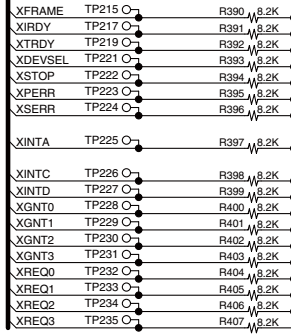
SCHEMATIC DIAGRAMS-21(SD-21) NETWORK SECTION-2

NALAN-9121(2/8)

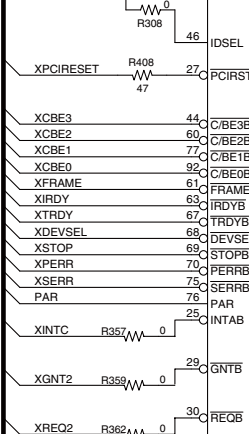
U44 LAN PC BOARD

PCI BUS
TO SD-20:B1

+3.3V



IDSEL=AD18



TO SD-27:E1
PCICLK2
25MHz

TO SD-27:B3

R354
5.6K

Q211
RTL8100CL-LP
ETHERNET CONTROL

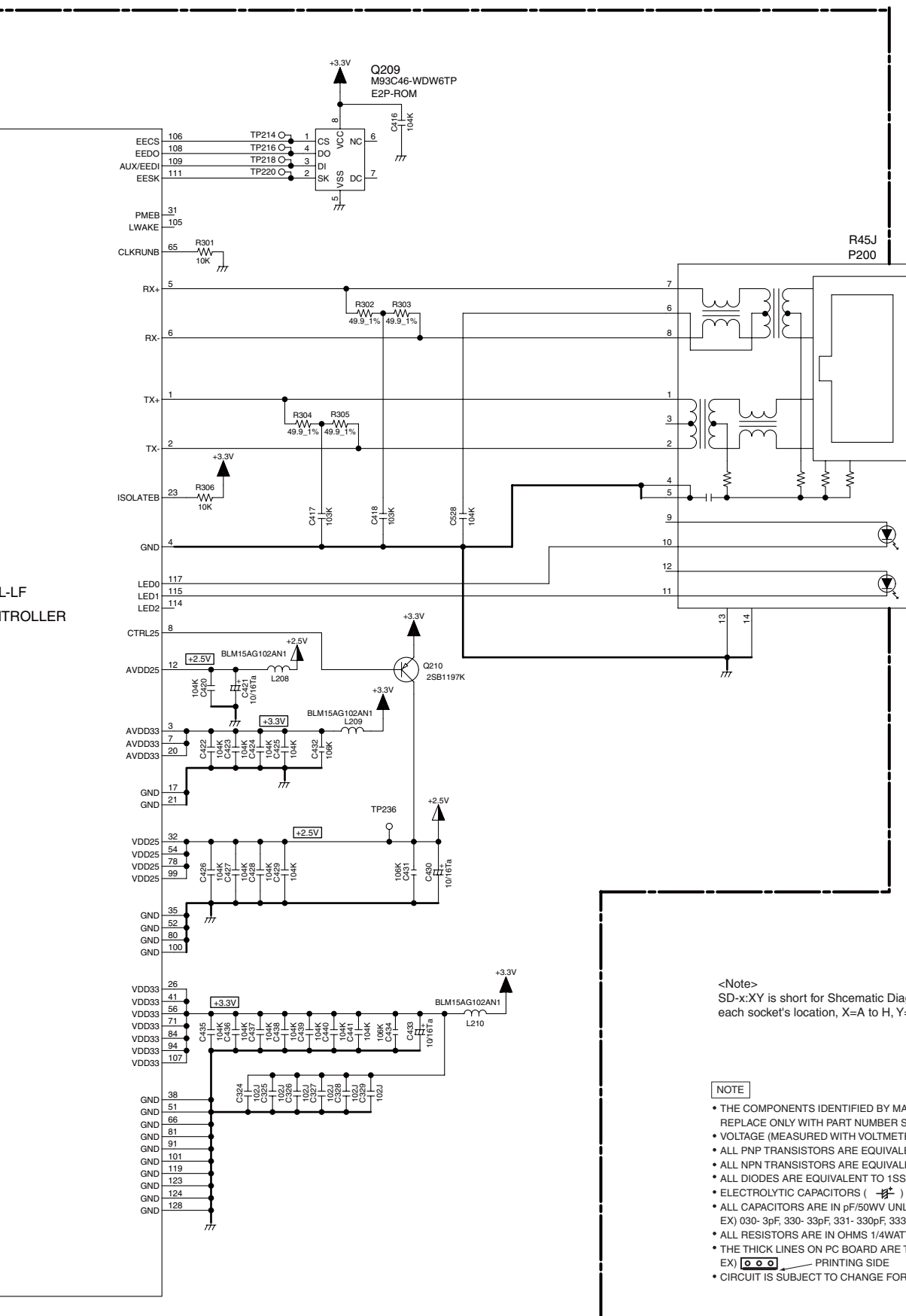
1

2

3

4

5



ETHERNET

<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

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- VOLTAGE (MEASURED WITH VOLTMETER) \square IS DC VOLTAGE. (NO INPUT SIGNAL).
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- 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 $\mu\text{F}/\text{VW}$.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) $\square \square \square$ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

A

B

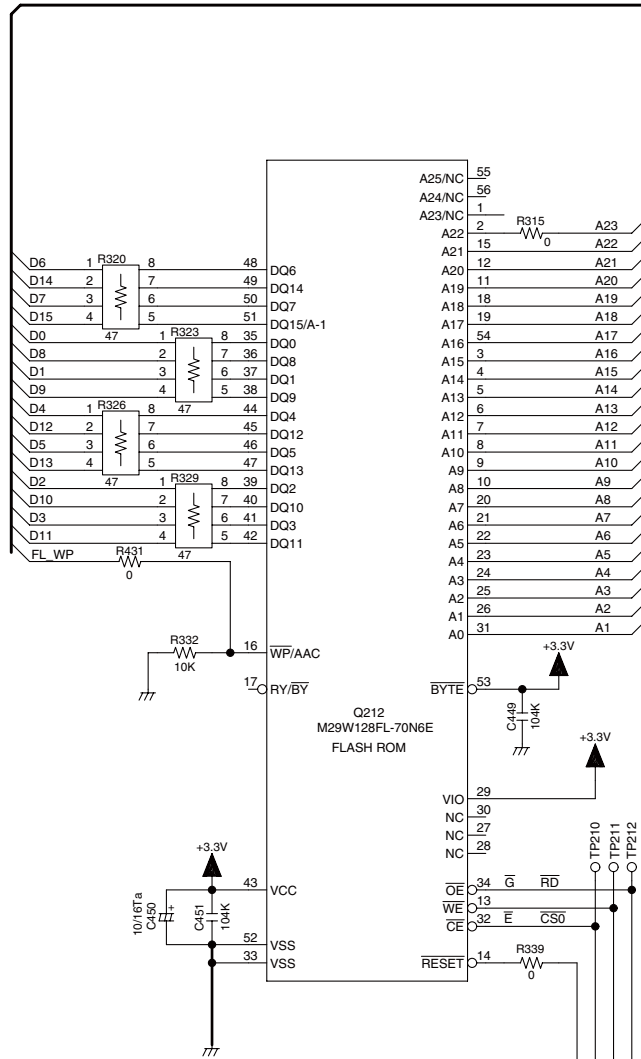
C

D

SCHEMATIC DIAGRAMS-22(SD-22)
NETWORK SECTION-3

NALAN-9121(3/8)

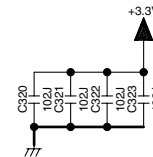
U44 LAN PC BOARD



<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

NOTE

- THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS ($\frac{\square}{\square}$) ARE IN μ F/VV.
- ALL CAPACITORS ARE IN pF/50VV UNLESS OTHERWISE NOTED.
EX) 030- 3pF, 330- 33pF, 331- 330pF, 333- 0.033 μ 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.



1

2

3

4

5

E

F

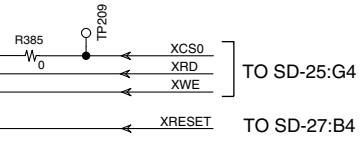
G

H

DATA BUS [0:63]

ADDRESS BUS [0:23]

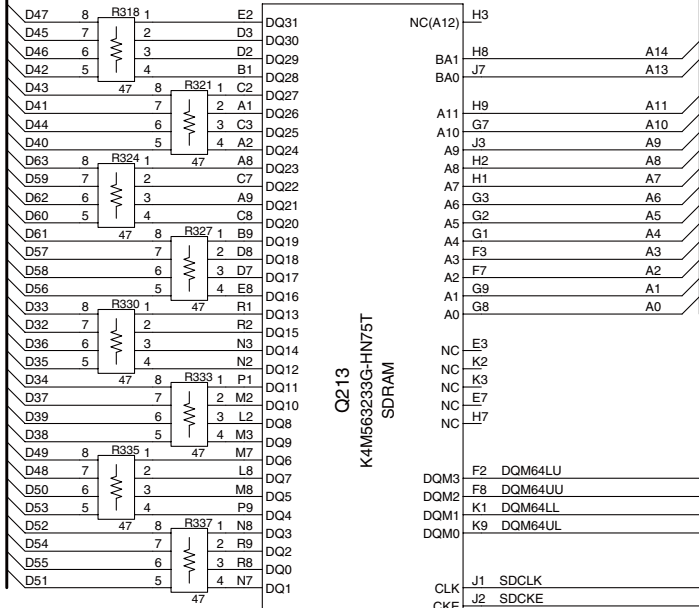
TO SD-25:B1



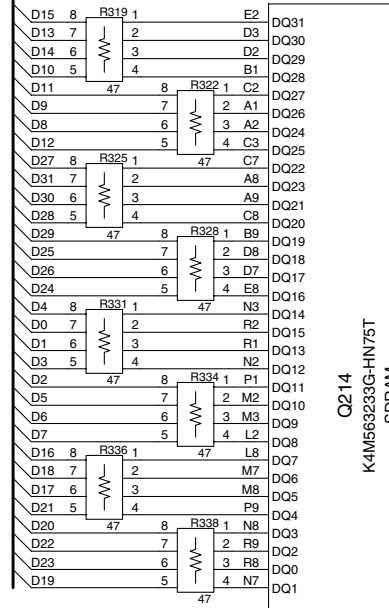
A B C D
SCHEMATIC DIAGRAMS-23(SD-23)
NETWORK SECTION-4

NALAN-9121(4/8)

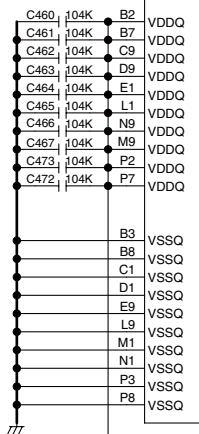
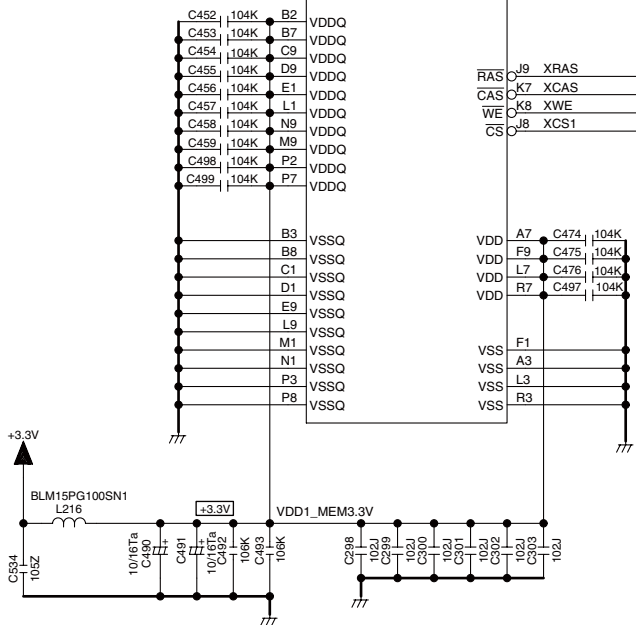
U44 LAN PC BOARD



Q213
K4M563233G-HN75T
SDRAM



Q214
K4M563233G-HN75T
SDRAM



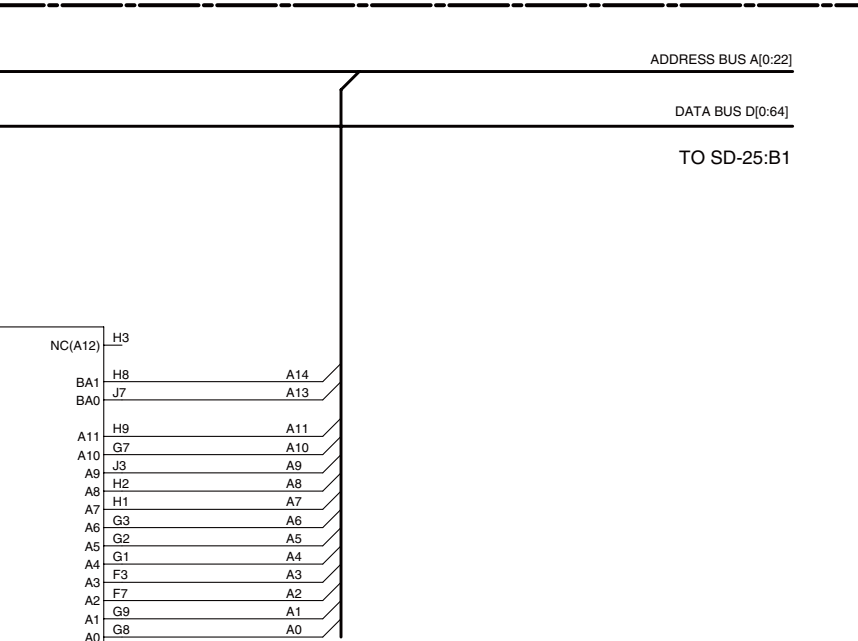
1

2

3

4

5



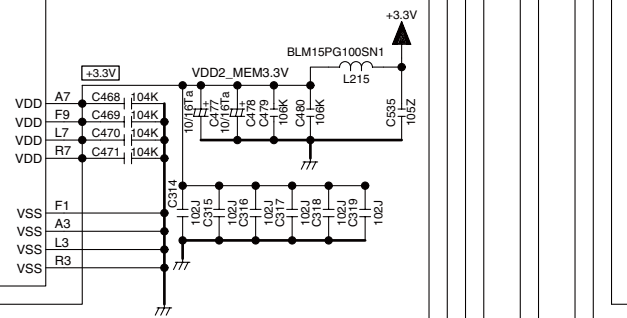
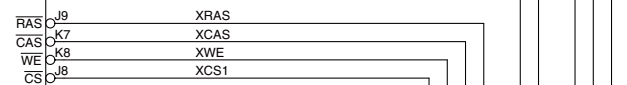
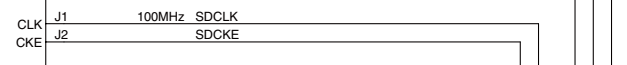
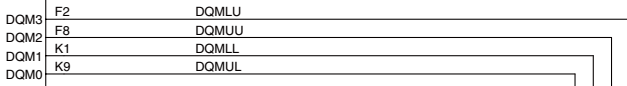
<Note>

SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

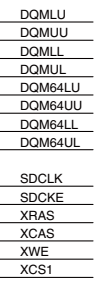
NOTE

- THE COMPONENTS IDENTIFIED BY MARK \triangle ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
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- ELECTROLYTIC CAPACITORS ($\text{---}\text{||}\text{---}$) ARE IN $\mu\text{F/WV}$.
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- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) \square PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

K4M563233G-HN/51 SDRAM



TO SD-25:G4-G5

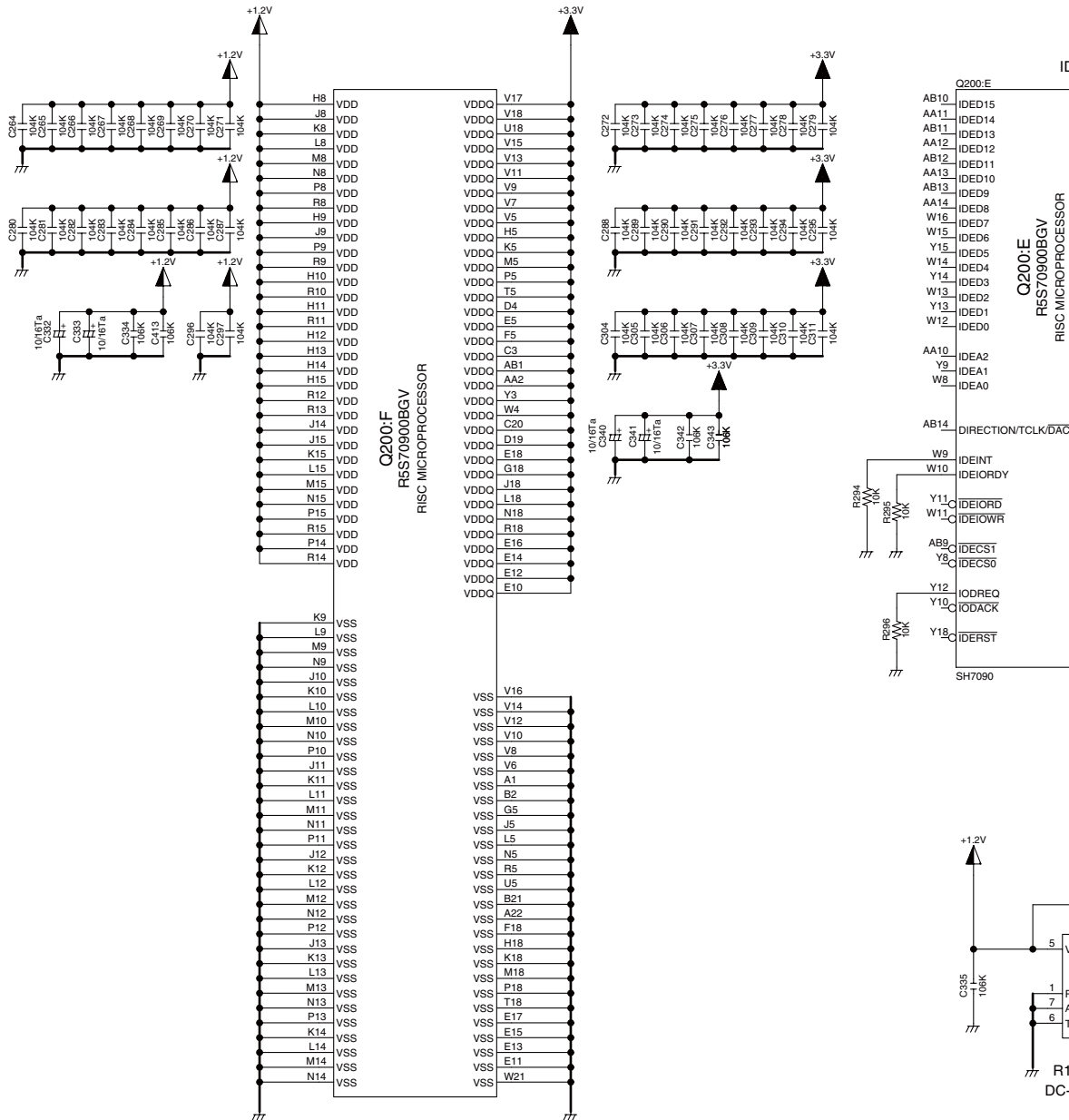


SCHEMATIC DIAGRAMS-24(SD-24)
NETWORK SECTION-5

NALAN-9121(5/8) U44 LAN PC BOARD

TO SD-21:A1 PCI BUS
TO SD-27:B1 PCICLK

SUTATUS0
TO SD-27:F4 XBOOTMODE0



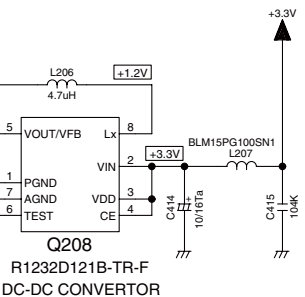
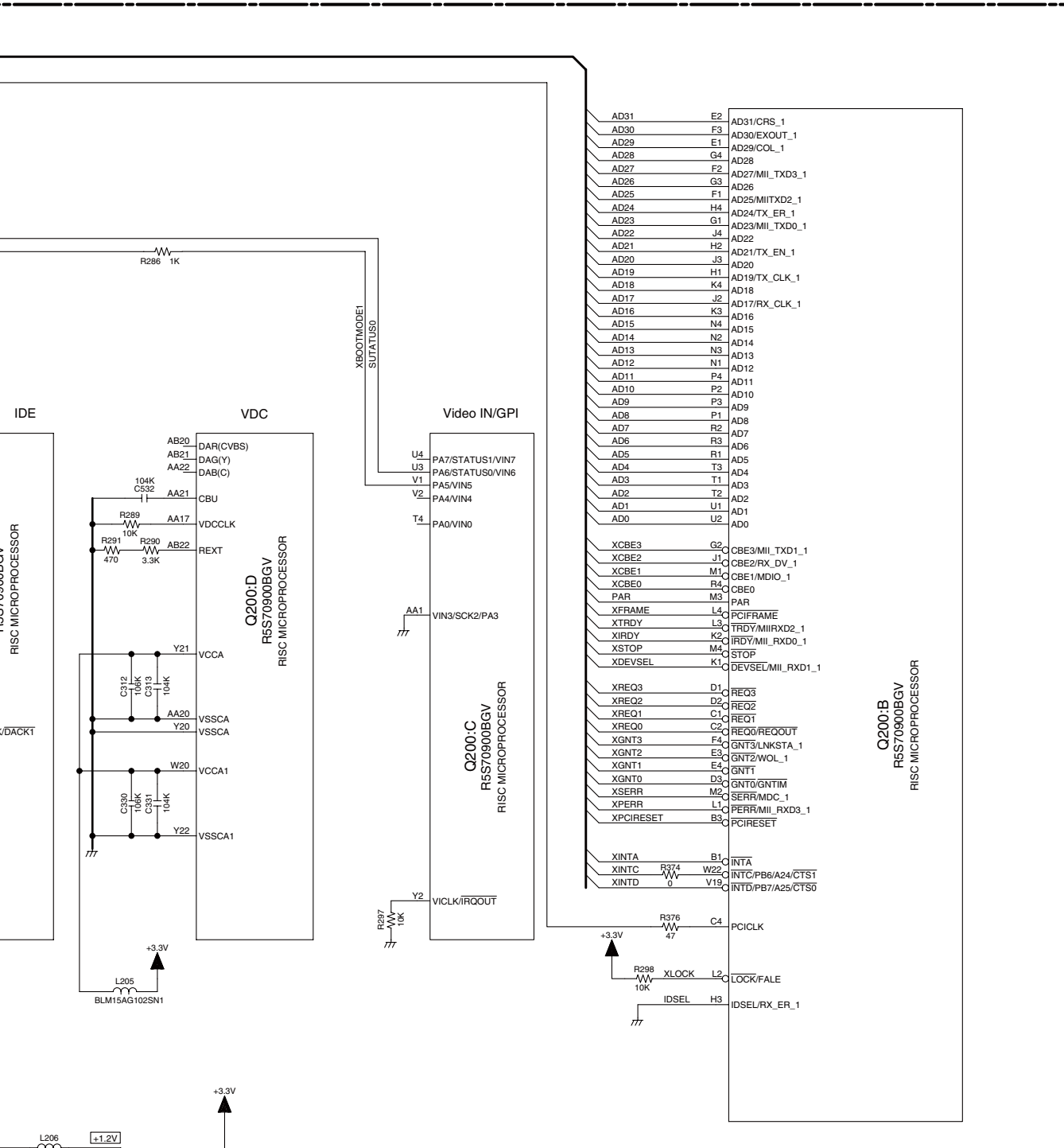
1

2

3

4

5



<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

- NOTE**
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 - ELECTROLYTIC CAPACITORS (---) ARE IN uF/WV.
 - ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
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 - 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.

SCHEMATIC DIAGRAMS-25(SD-25)
NETWORK SECTION-6

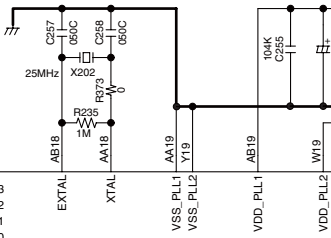
NALAN-9121(6/8) **U44 LAN PC BOARD**

TO SD-22:H1
&
SD-23:F1

ADDRESS BUS [0:23]

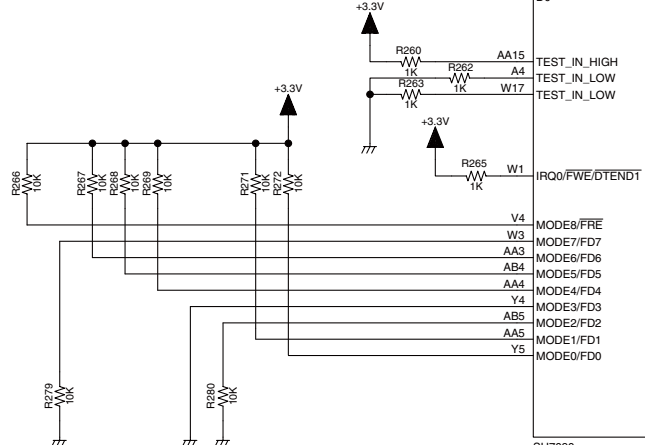
DATA BUS [0:63]

D63	D14	D63
D62	C14	D62
D61	D13	D61
D60	C13	D60
D59	D12	D59
D58	C12	D58
D57	D11	D57
D56	C11	D56
D55	D10	D55
D54	C10	D55/MDC_2
D53	B10	D54/MDIO_2
D52	A10	D53/MIIRXD2_2
D51	B11	D52/MIL_RXD3_2
D50	A11	D51/MIIRXDO_2
D49	B12	D50/MIIRXD1_2
D48	A12	D49/RX_CLK_2
D47	D18	D48/RX_DV_2
D46	C18	D47
D45	D17	D46/WOL_2
D44	C17	D45/LNKSTA_2
D43	D16	D44/EXOUT_2
D42	D15	D43
D41	C16	D42
D40	D15	D41/TX_ER_2
D39	C15	D40/RX_ER_2
D38	B15	D39/TX_EN_2
D37	A15	D38/TX_CLK_2
D36	B16	D37/MIL_TXD1_2
D35	A16	D36/MIL_TXD0_2
D34	B17	D35/MIL_TXD3_2
D33	A17	D34/MITXD2_2
D32	B18	D33/CRS_2
D31	A18	D32/COL_2
D30	L19	D31
D29	K19	D30
D28	K20	D29
D27	J19	D28
D26	J20	D27
D25	H19	D26
D24	H20	D25
D23	H21	D24
D22	H22	D23
D21	J21	D22
D20	J22	D21
D19	K21	D20
D18	K22	D19
D17	L21	D18
D16	L22	D17
D15	T19	D16
D14	T20	D15
D13	R19	D14
D12	R20	D13
D11	P19	D12
D10	P20	D11
D9	N19	D10
D8	N20	D9
D7	N21	D8
D6	N22	D7
D5	P21	D6
D4	P22	D5
D3	R21	D4
D2	R22	D3
D1	T21	D2
D0	T22	D1
		D0

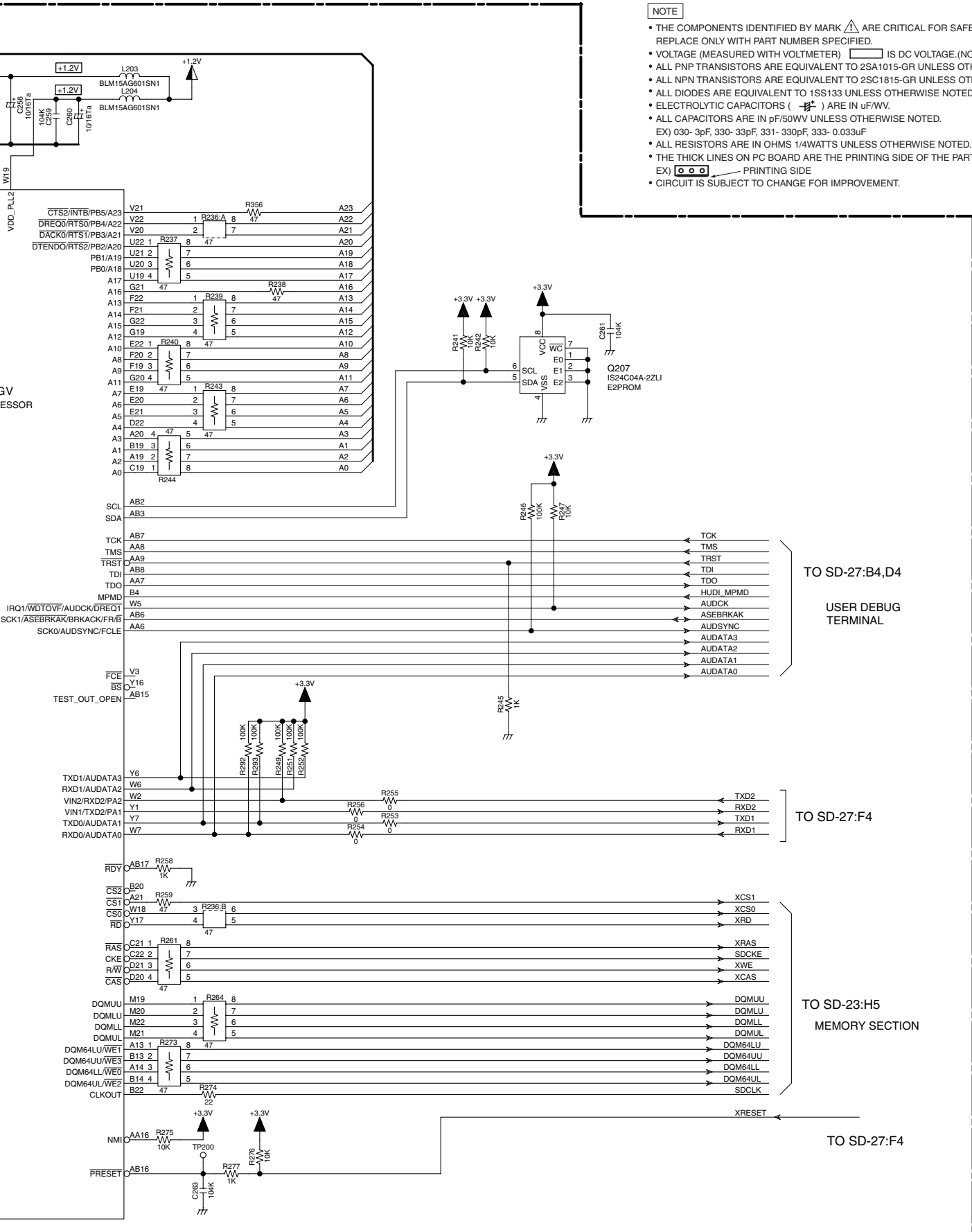


Q200:A
R5S70900BGV
RISC MICROPROCESSOR

IRQ
SCK1



<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.



NOTE

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- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
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- EX) \square PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

TO SD-27:B4,D4
USER DEBUG
TERMINAL

TO SD-27:F4

TO SD-23:H5
MEMORY SECTION

TO SD-27:F4

A

B

C

D

SCHEMATIC DIAGRAMS-26(SD-26)
NETWORK SECTION-7

1

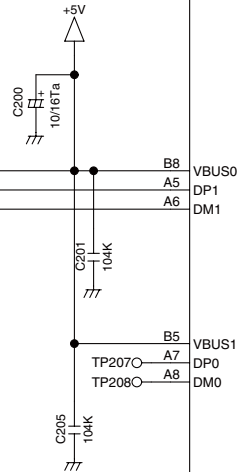
NALAN-9121(7/8)

U44 LAN PC BOARD

2

← VBUS1
← DP1
← DM1
← USB1 GND

TO SD-27:F3



3

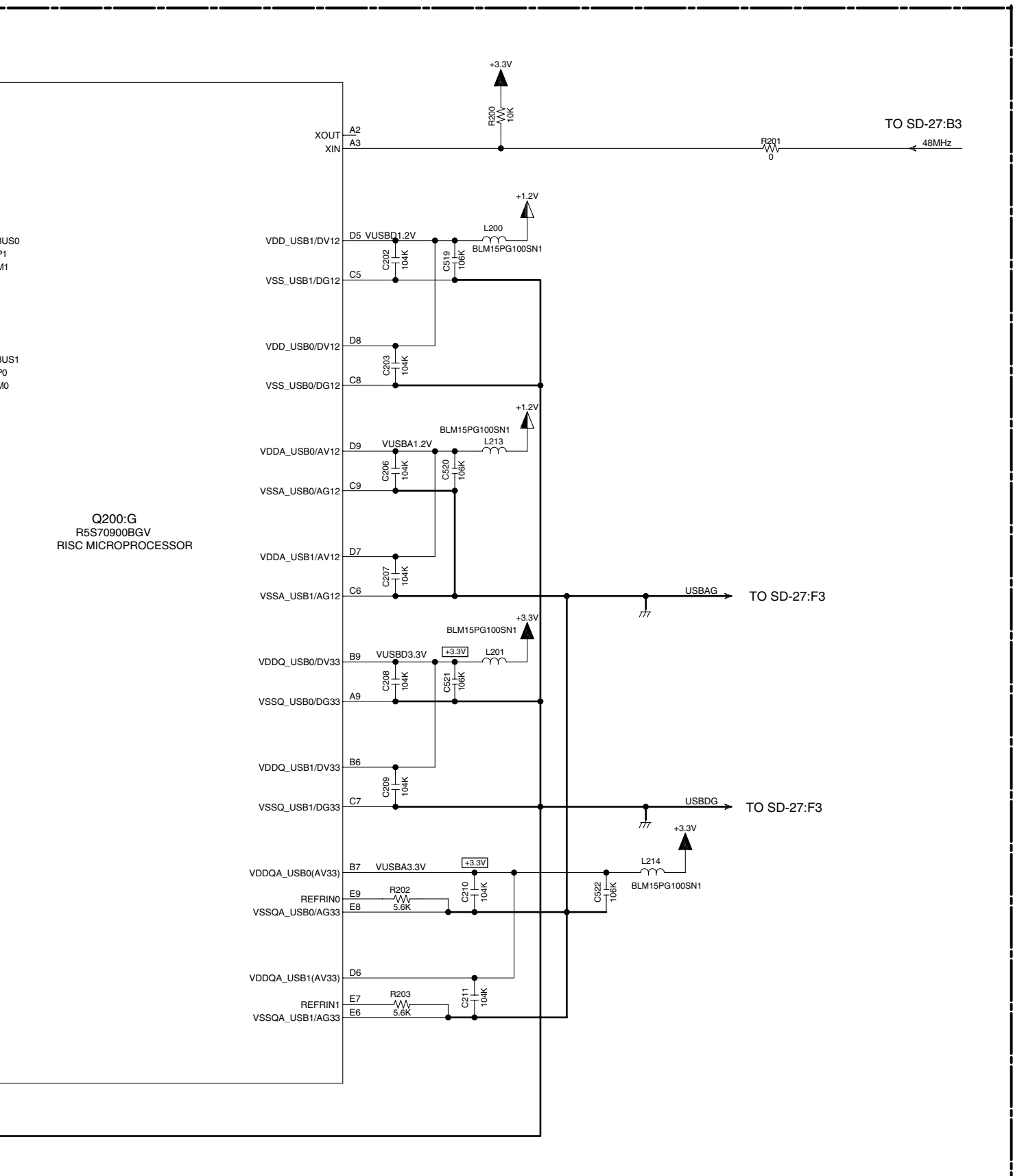
4

<Note>
SD-x:XY is short for Schematic Diagram-x and
each socket's location, X=A to H, Y=1 to 5.

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EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

5

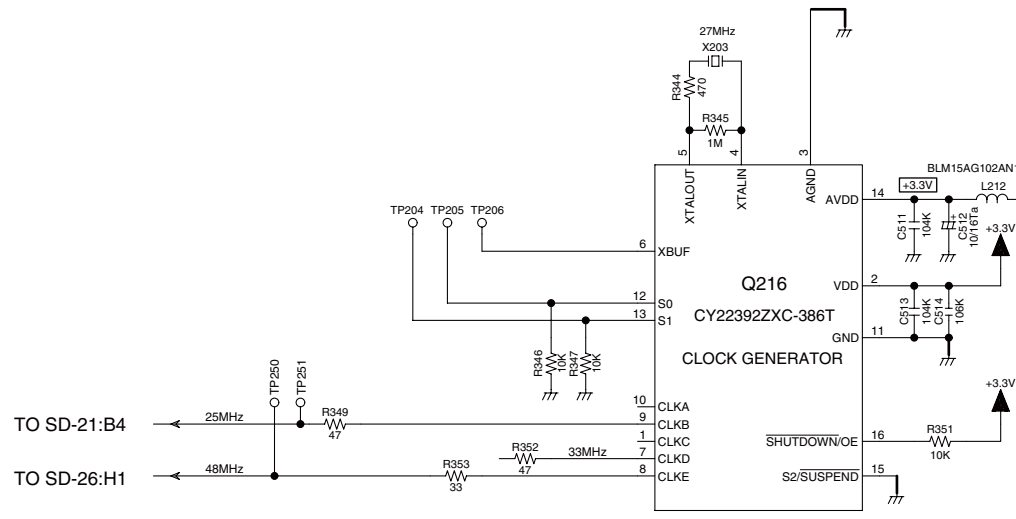
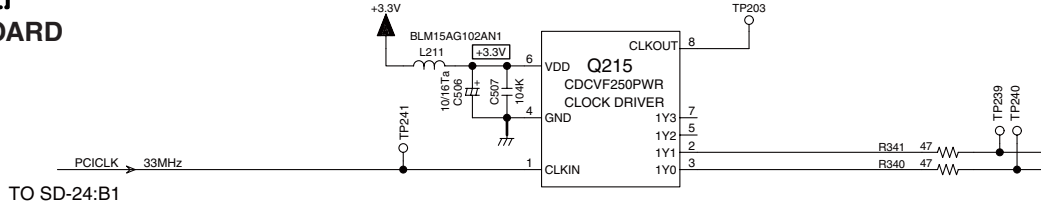


A B C D

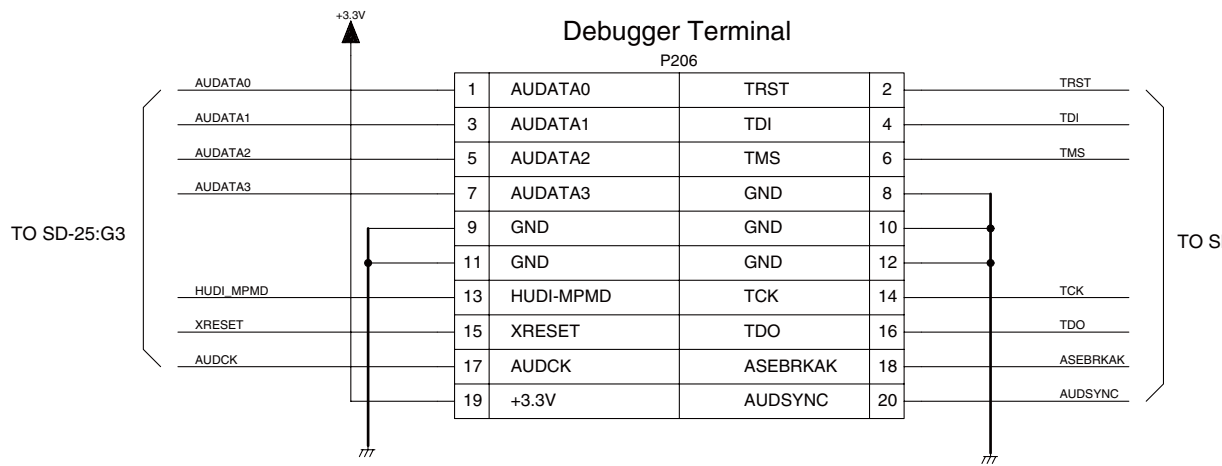
SCHEMATIC DIAGRAMS-27(SD-27)
NETWORK SECTION-8

NALAN-9121(8/8)

U44 LAN PC BOARD



Debugger Terminal



1

2

3

4

5

E

F

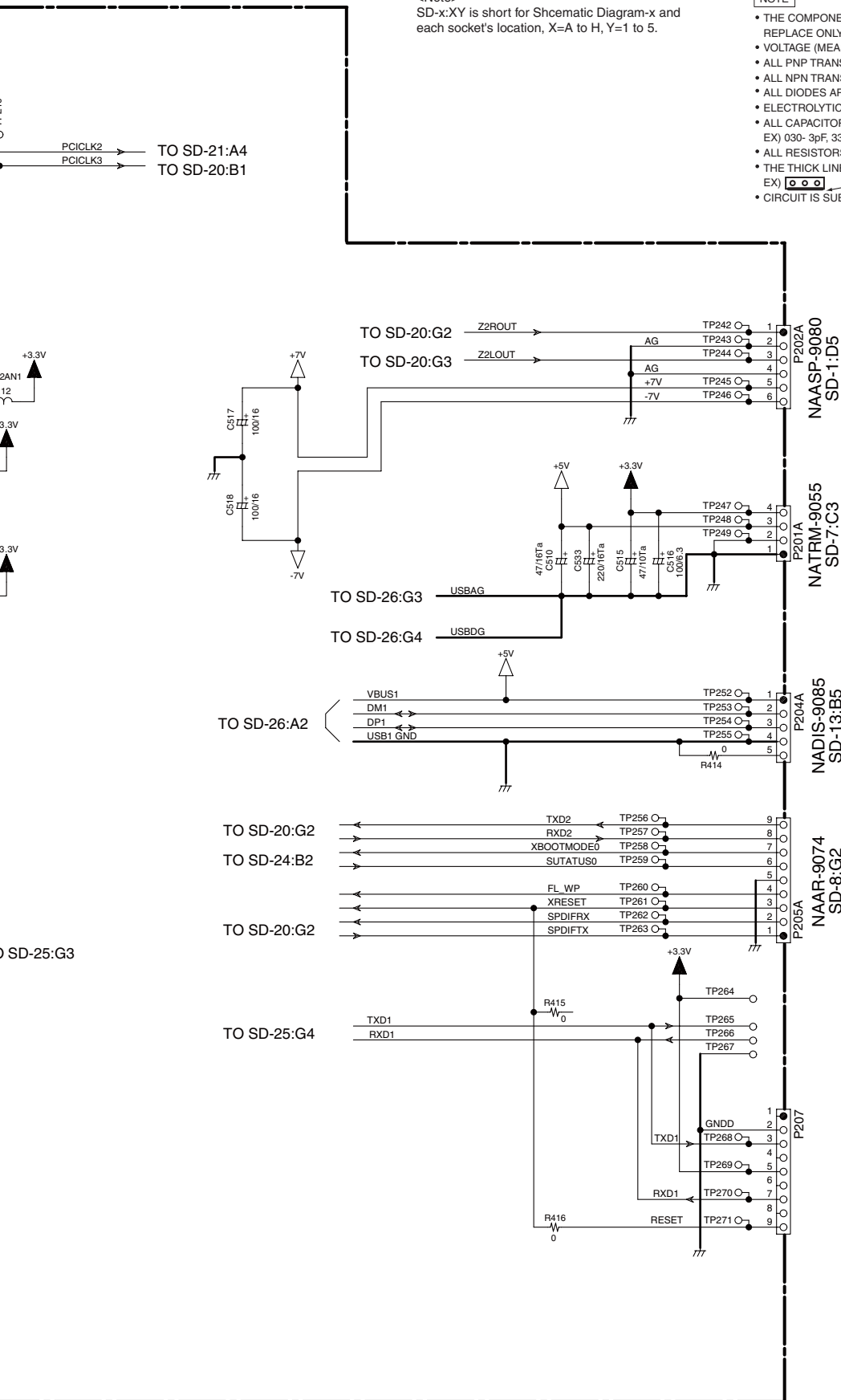
G

H

<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

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- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) \square PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.



A

B

C

D

SCHEMATIC DIAGRAMS-28(SD-28)
HD RADIO SECTION

1

2

3

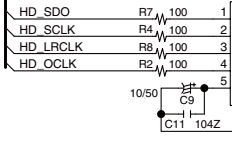
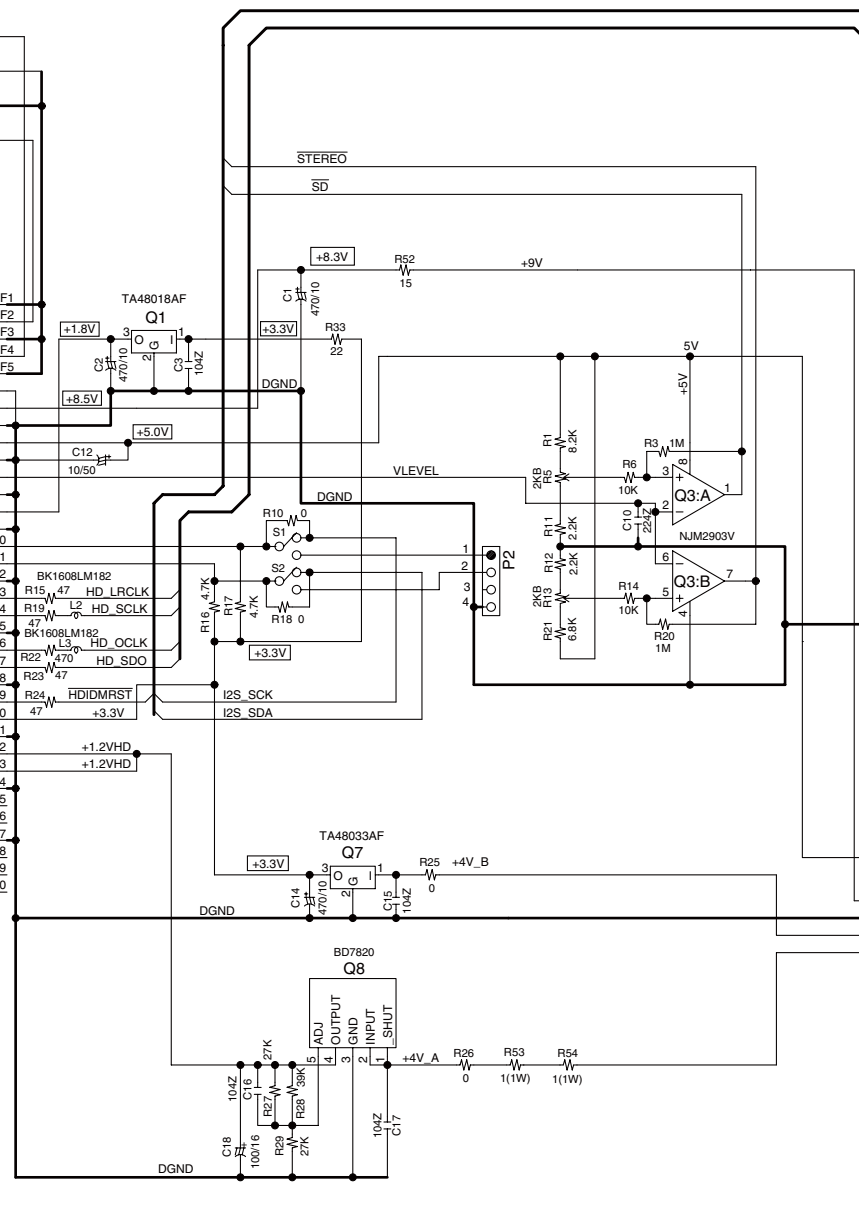
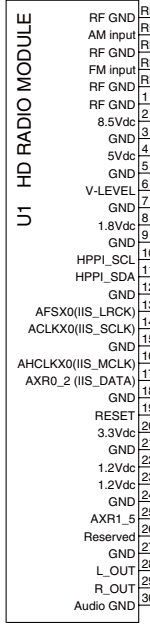
4

5

NARF-9118 **U43** HD RADIO PC BOARD



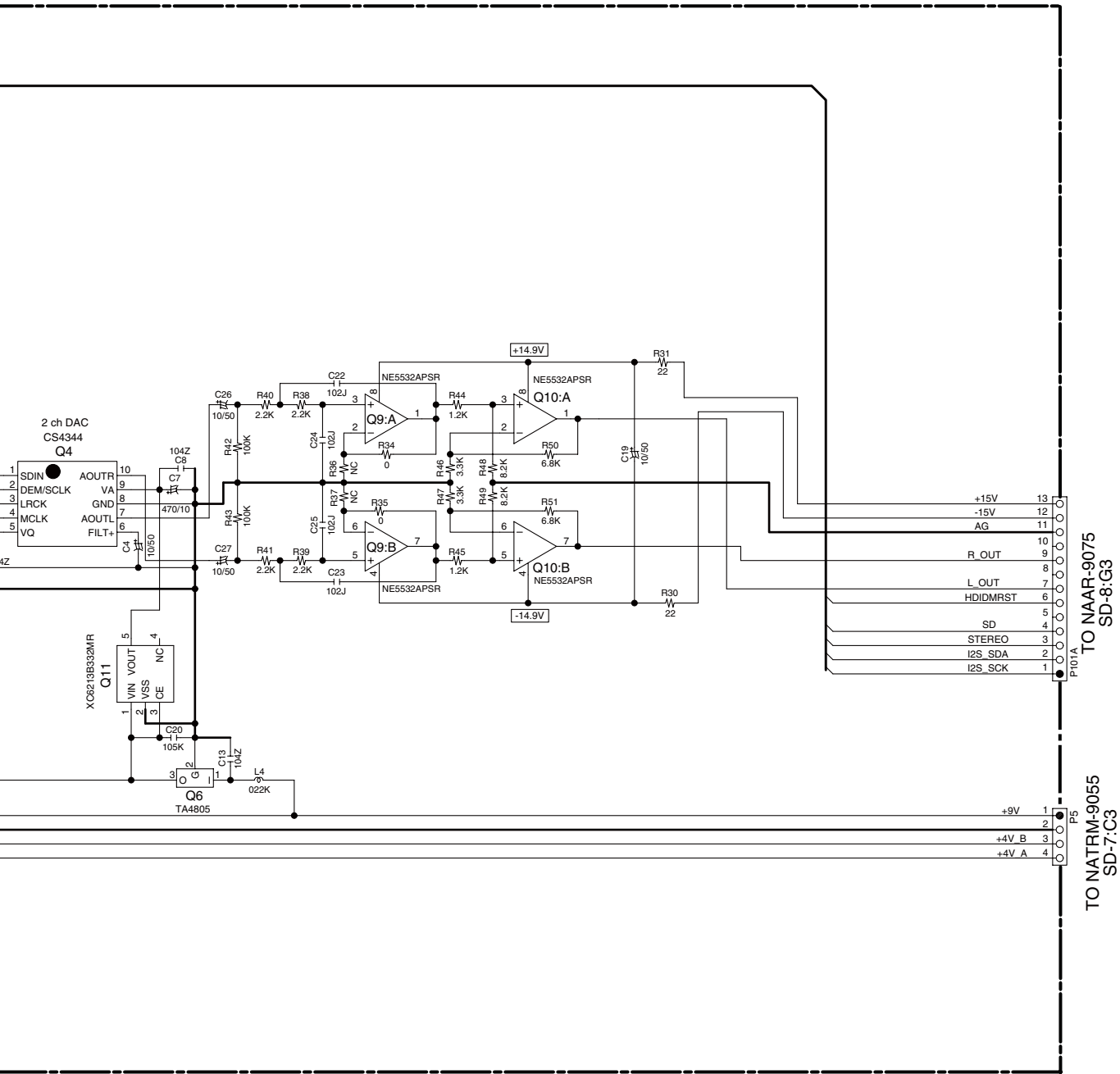
U1 HD RADIO MODULE



<Note>
SD-x:XY is short for Schematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

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- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.



TO NAAR-9075
SD-8:G3

TO NATRM-9055
SD-7:C3