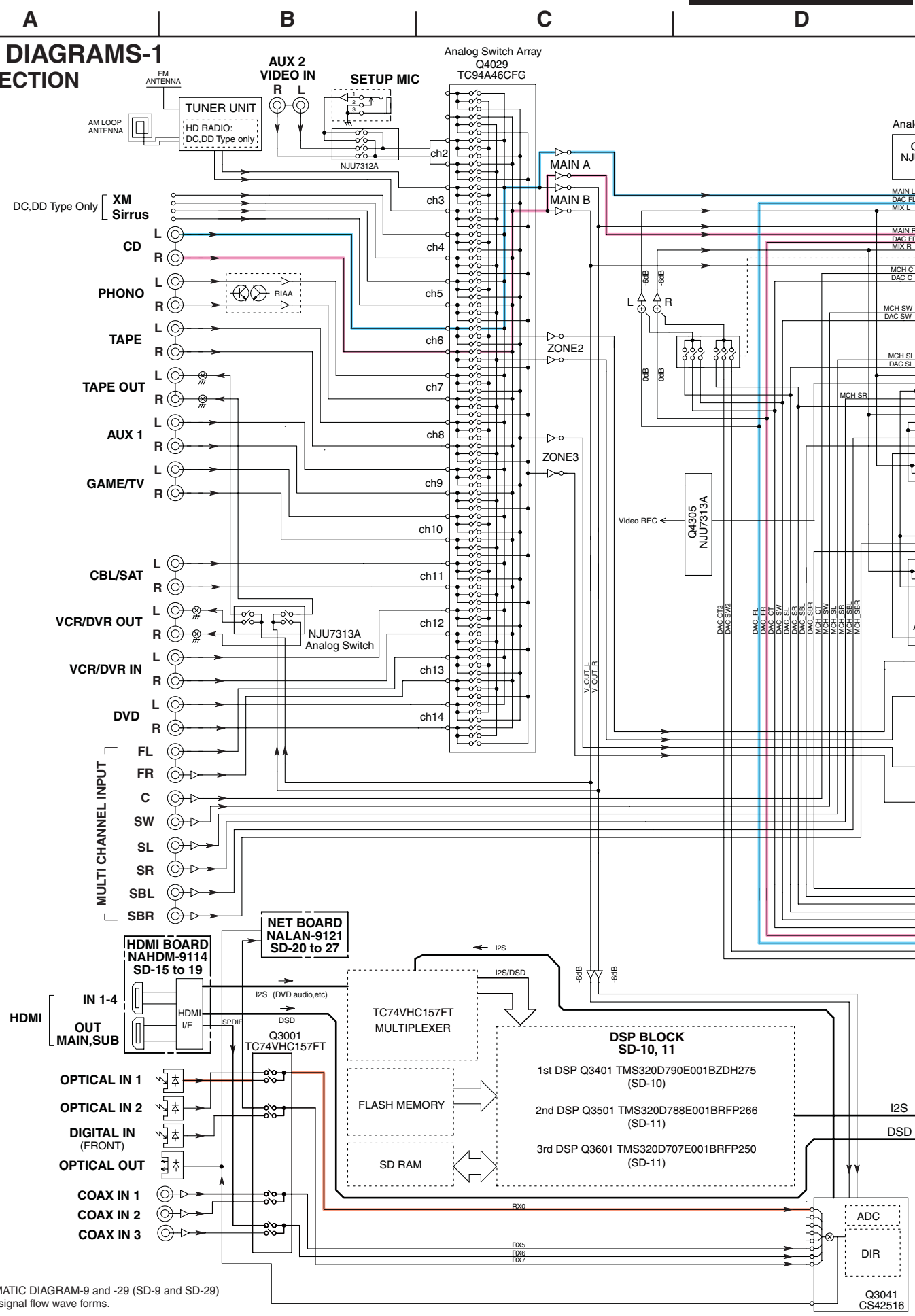


BLOCK DIAGRAMS-1
AUDIO SECTION

1
2
3
4
5



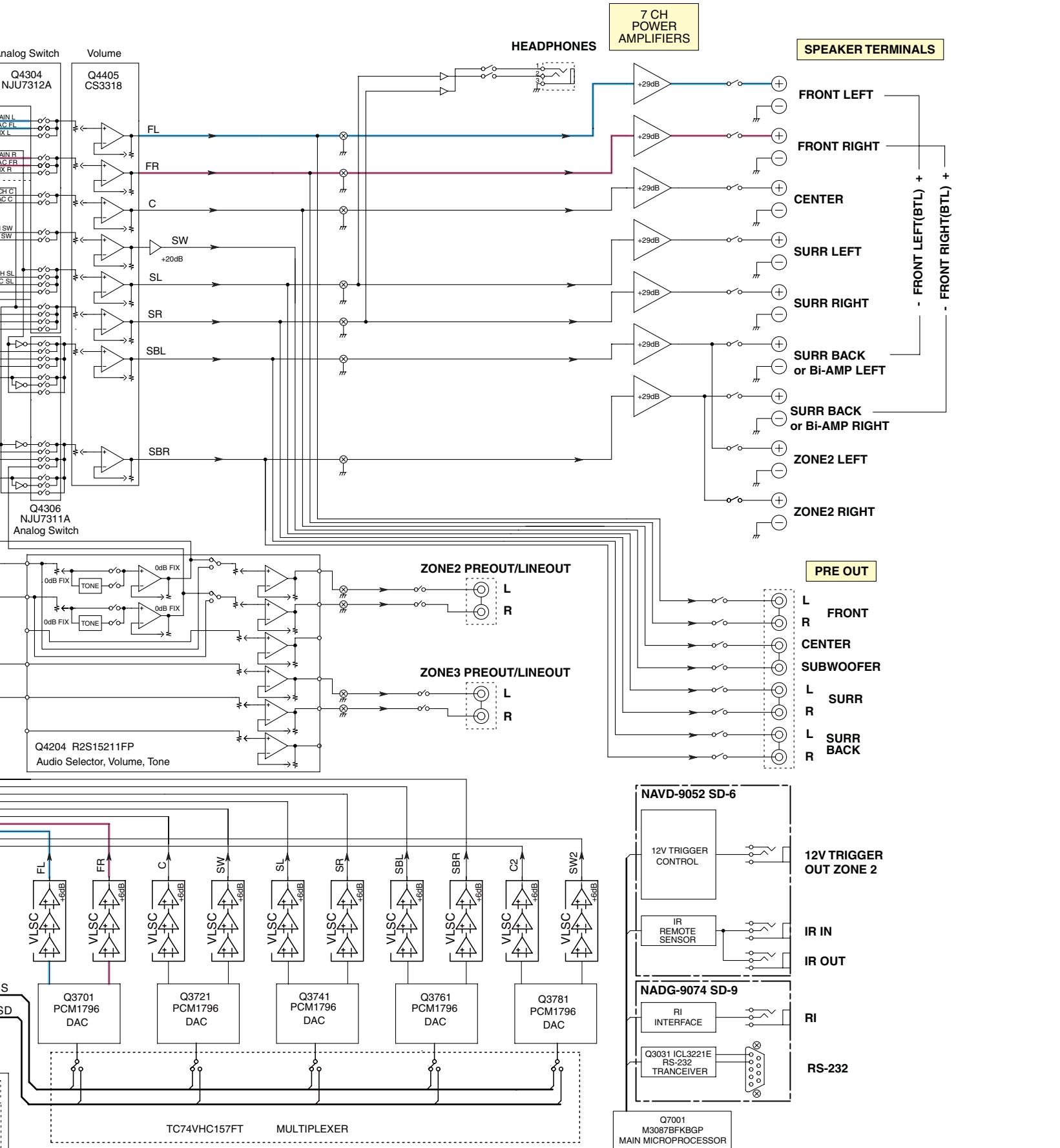
<Note>
Refer to SCHEMATIC DIAGRAM-9 and -29 (SD-9 and SD-29)
for digital audio signal flow wave forms.

E

F

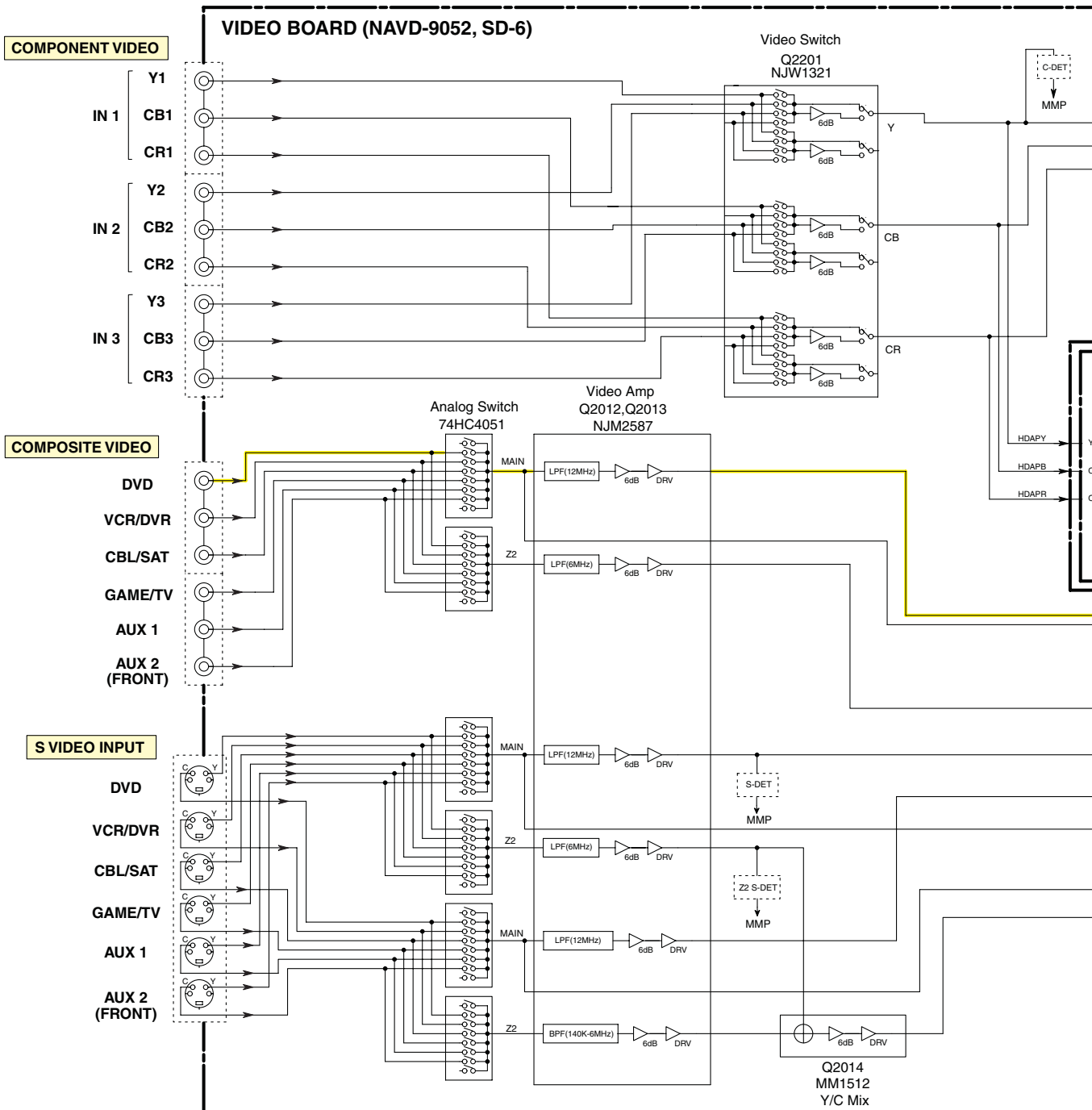
G

H



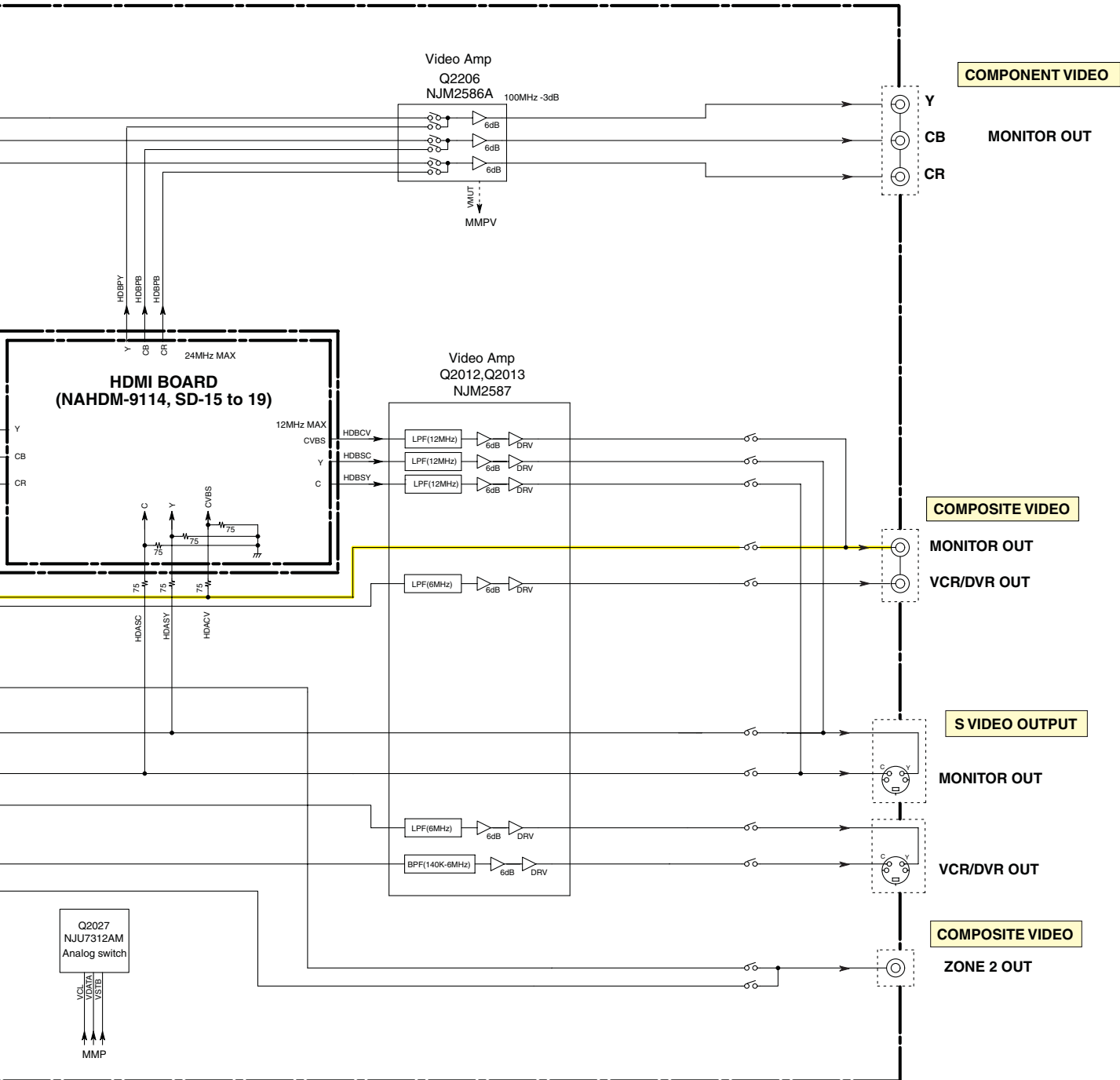
BLOCK DIAGRAMS-2
VIDEO SECTION

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.



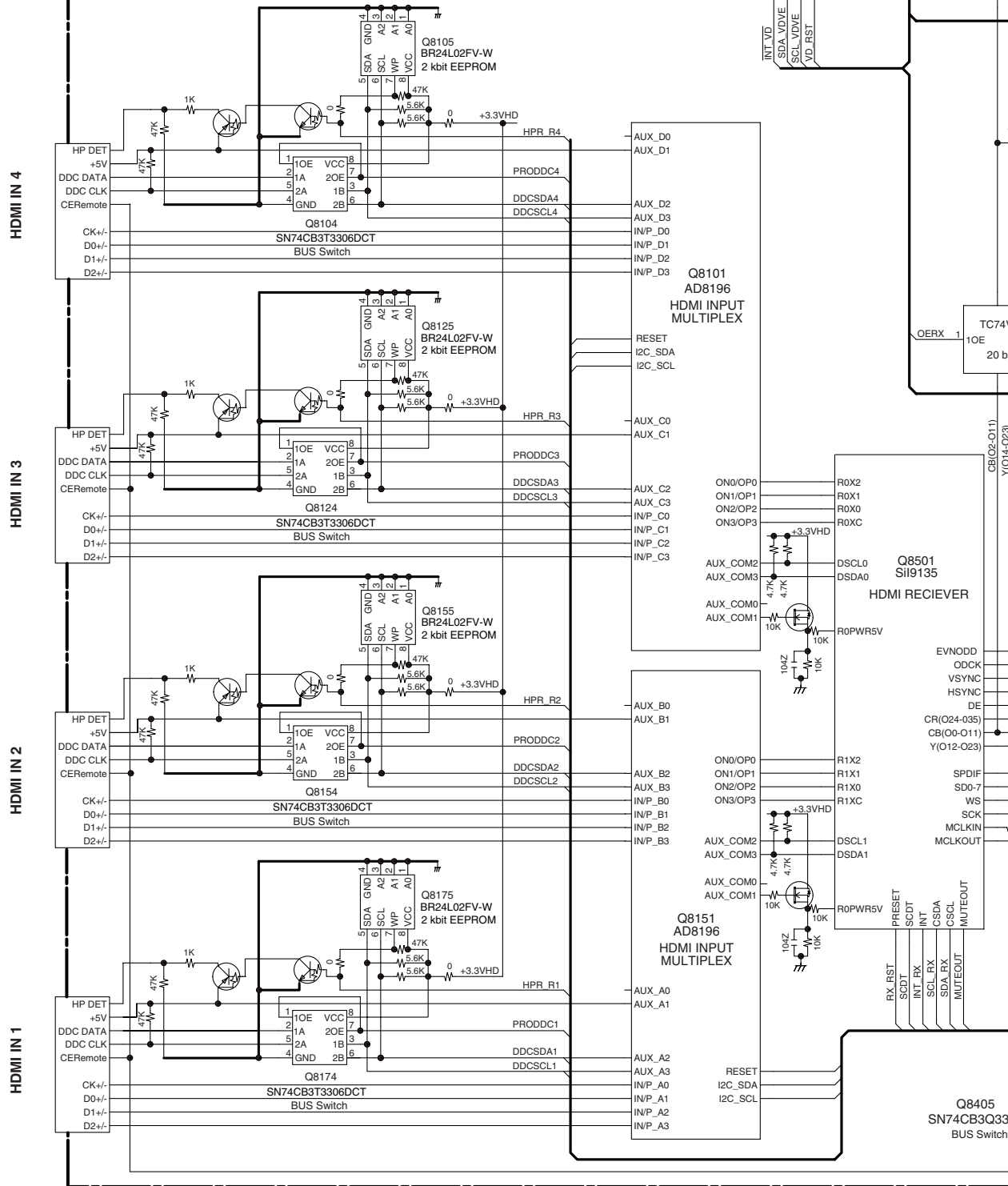
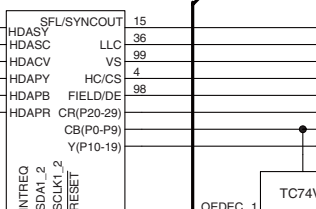
BLOCK DIAGRAMS-3
HDMI SECTION

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



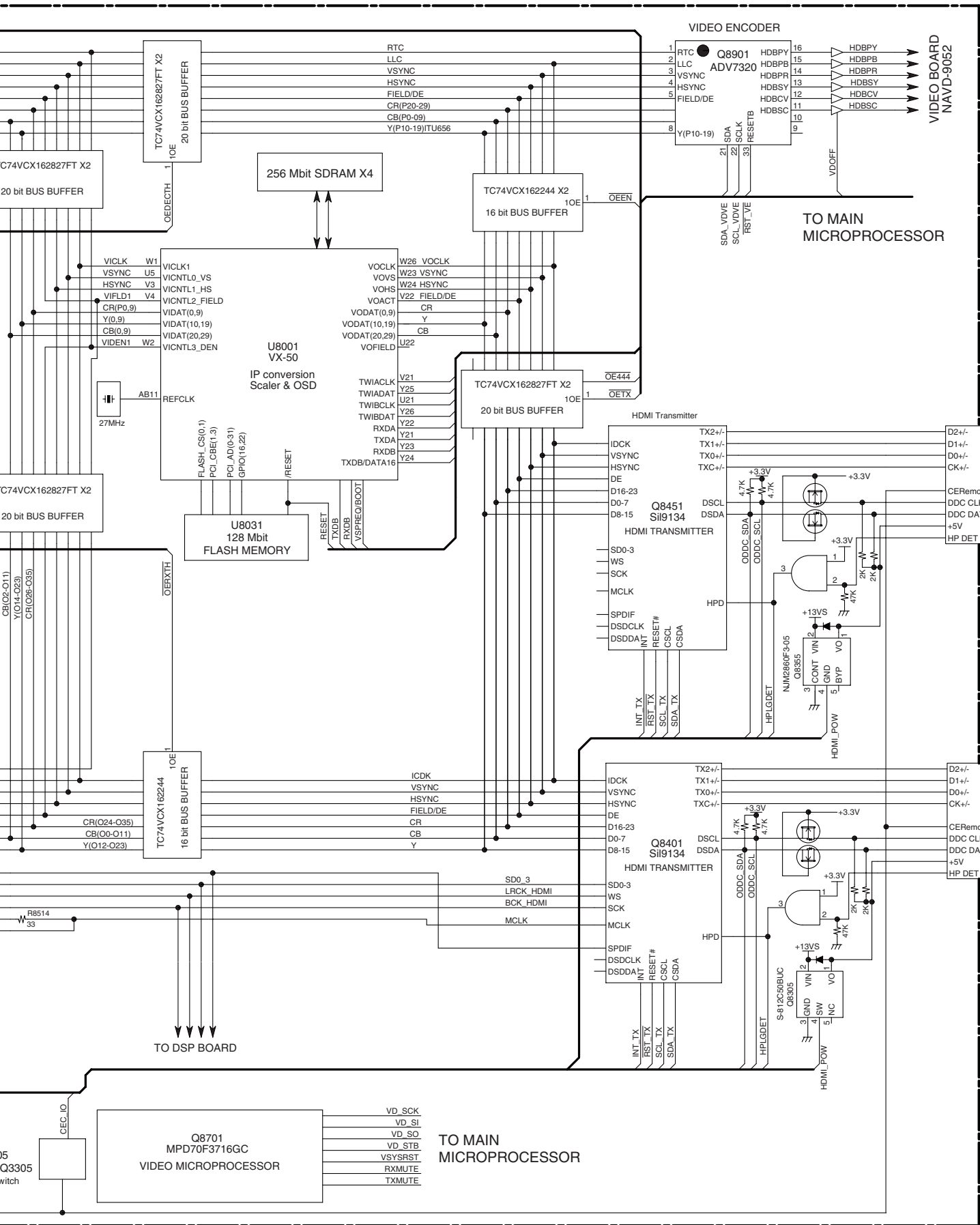
1

2

3

4

5



TO MAIN MICROPROCESSOR

HDMI OUT SUB

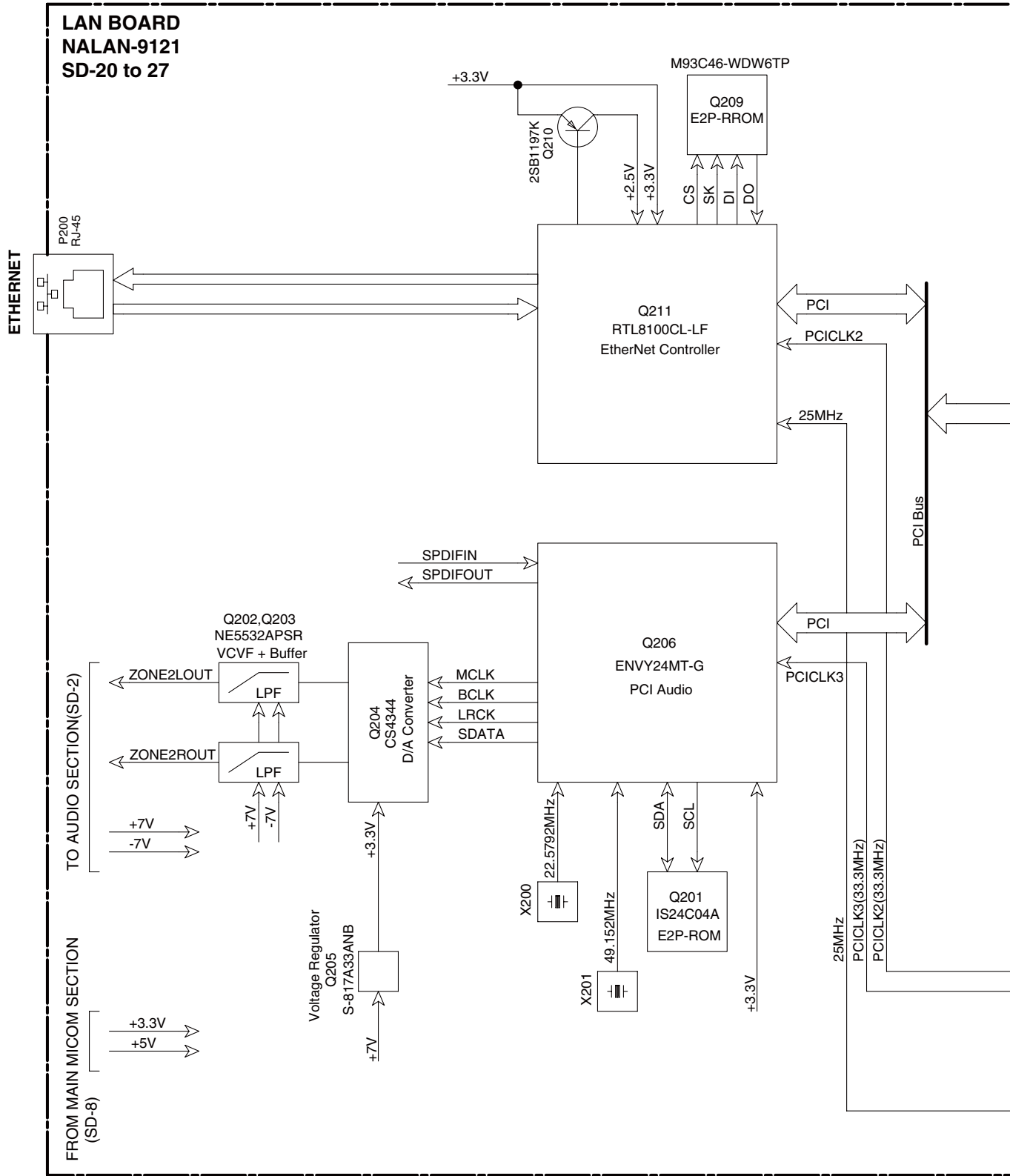
HDMI OUT MAIN

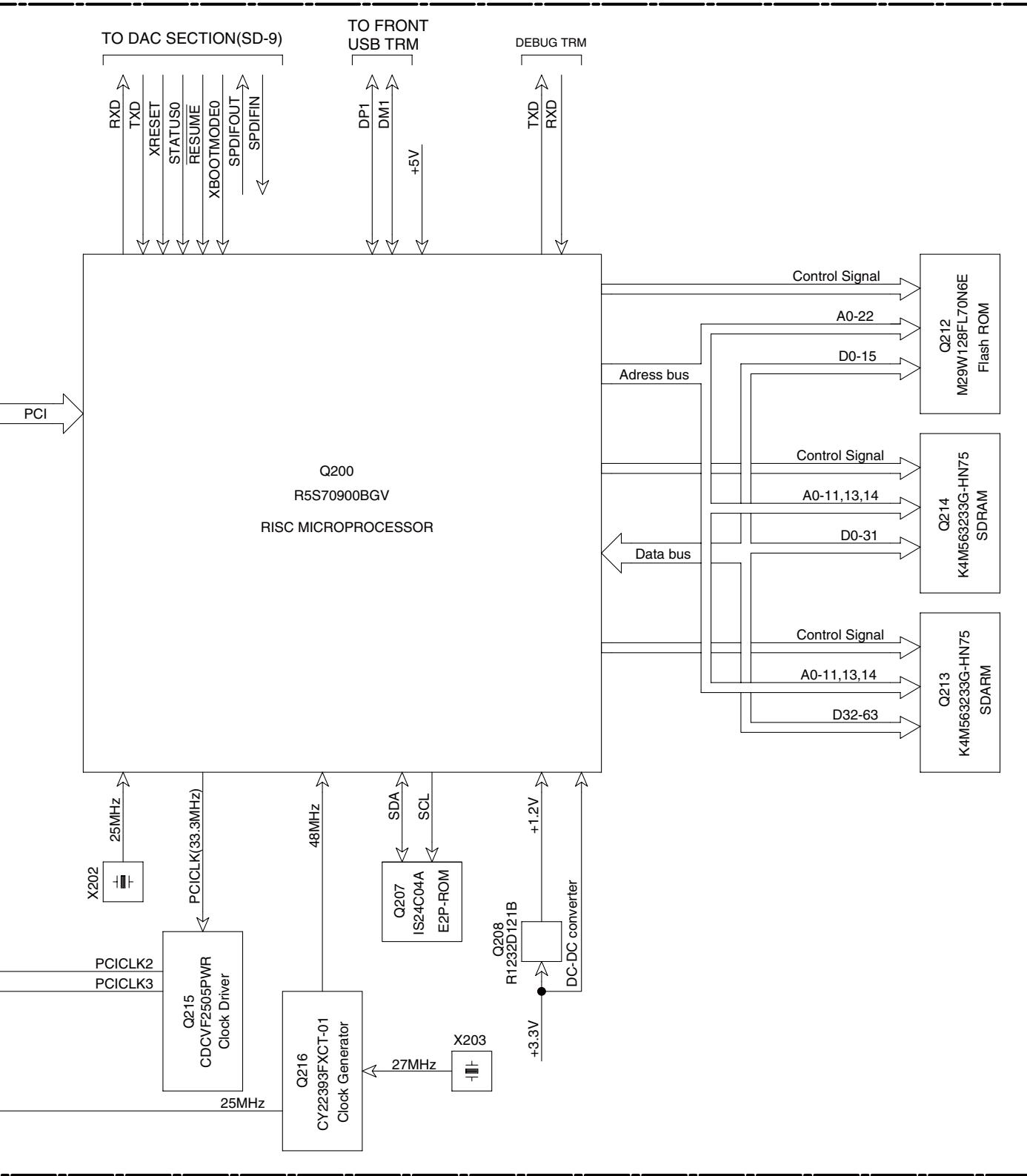
TO DSP BOARD

TO MAIN MICROPROCESSOR

BLOCK DIAGRAMS-4
NETWORK SECTION

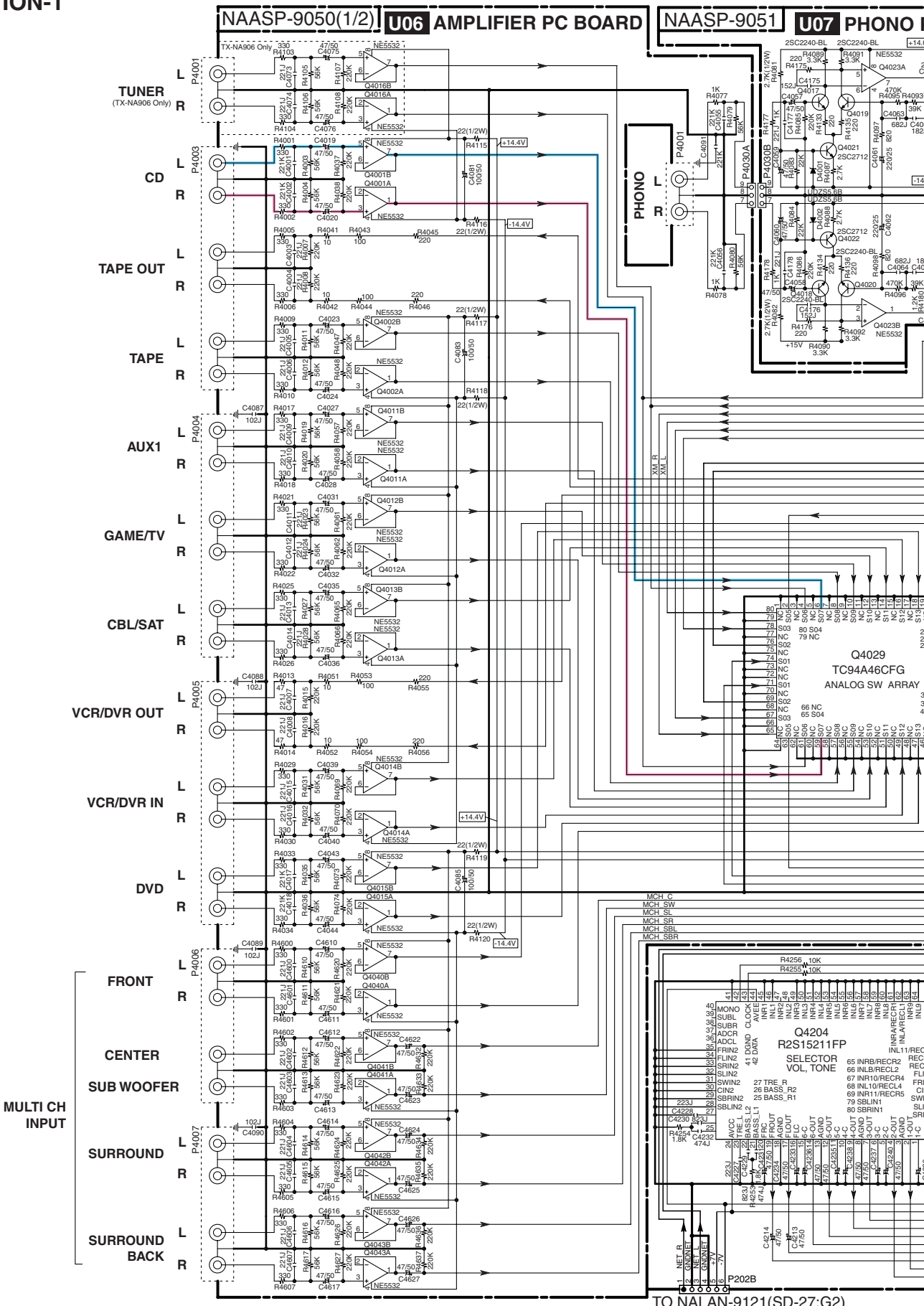
1
2
3
4
5





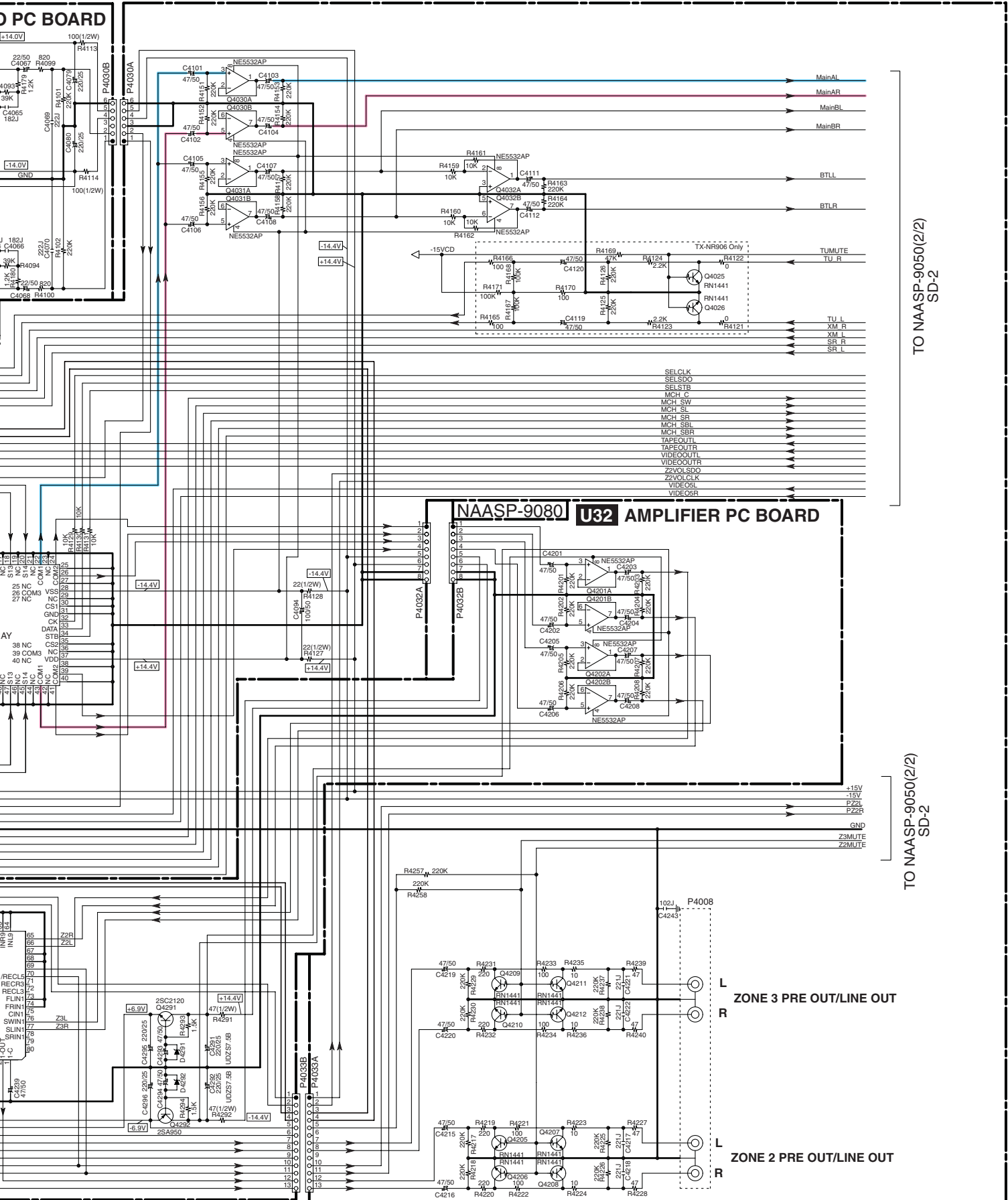
SCHEMATIC DIAGRAMS-1 (SD-1) AUDIO SECTION-1

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

ZONE 3 PRE OUT/LINE OUT

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

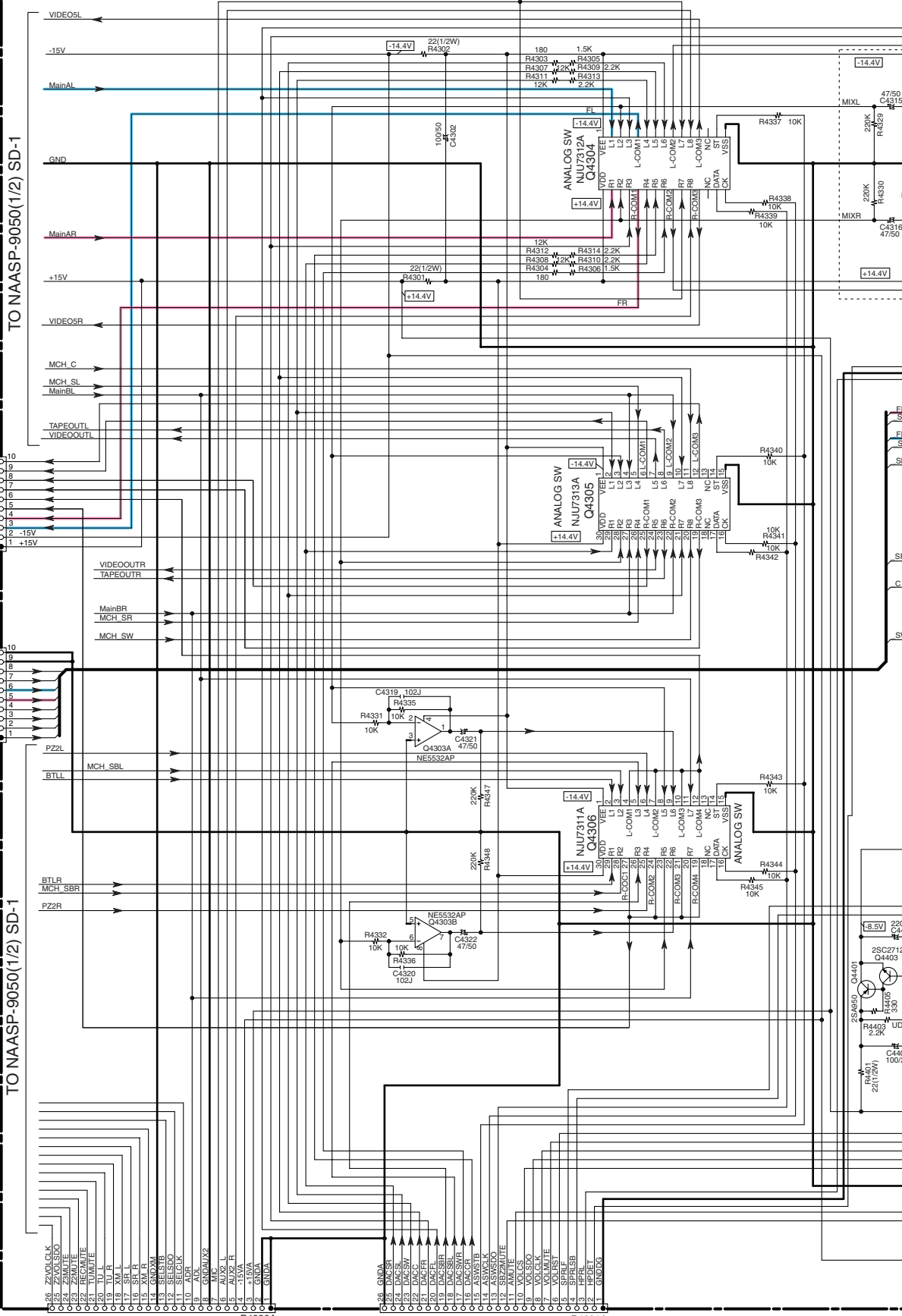
1

2

3

4

5



TO NAETC-9073
SD-14:F2

TO NAETC-9073
SD-14:H2

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

TO NAAR-9075
SD-8:F4

TO NAAR-9075
SD-8:G4

P4020A

P4021A

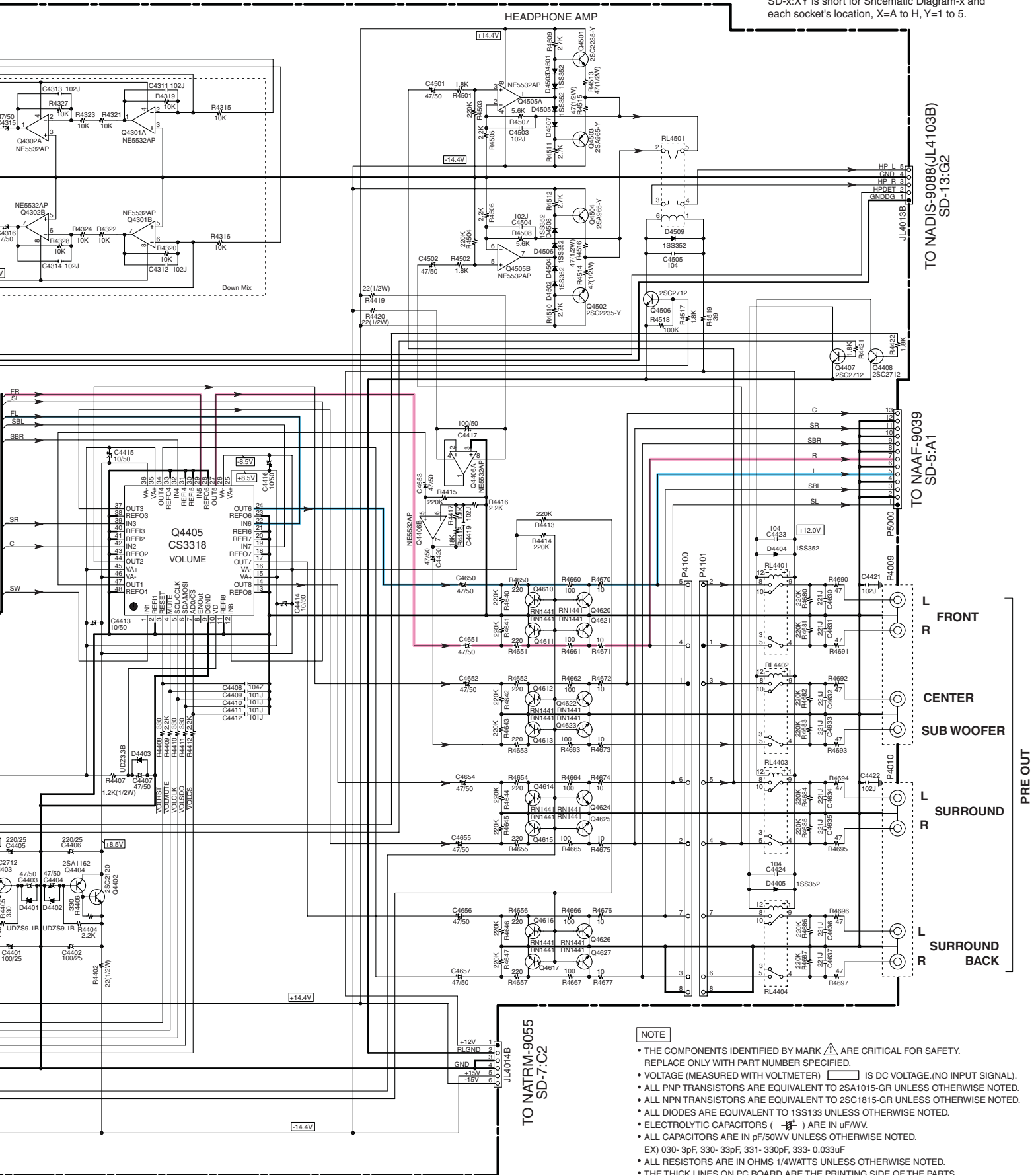
E

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.



- 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 ($\text{---} \parallel \text{---}$) 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) $\square \square \square$ PRINTING SIDE
 - CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

A

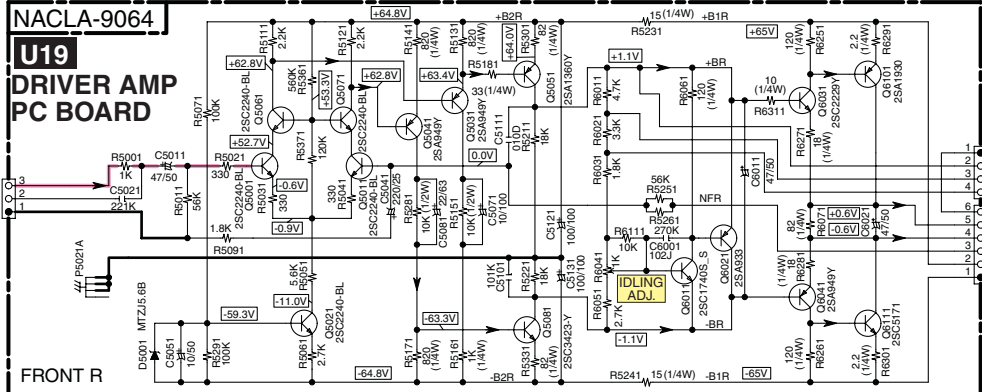
B

C

D

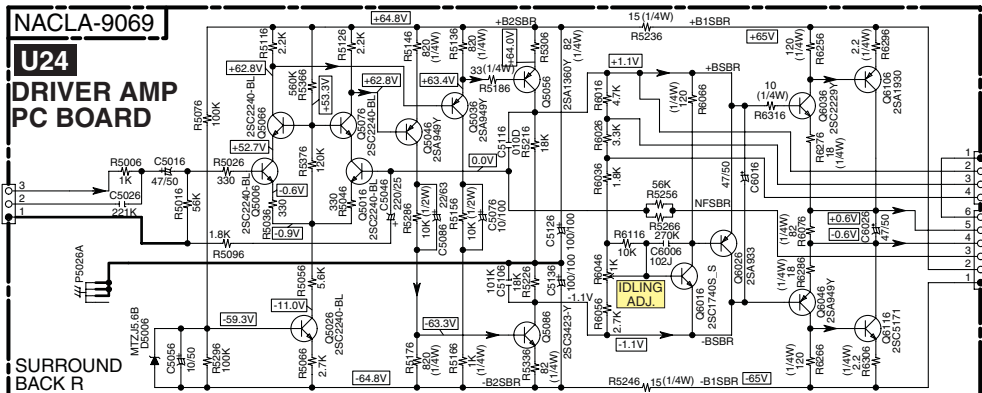
SCHEMATIC DIAGRAMS-3 (SD-3)
POWER AMPLIFIER SECTION-1

1



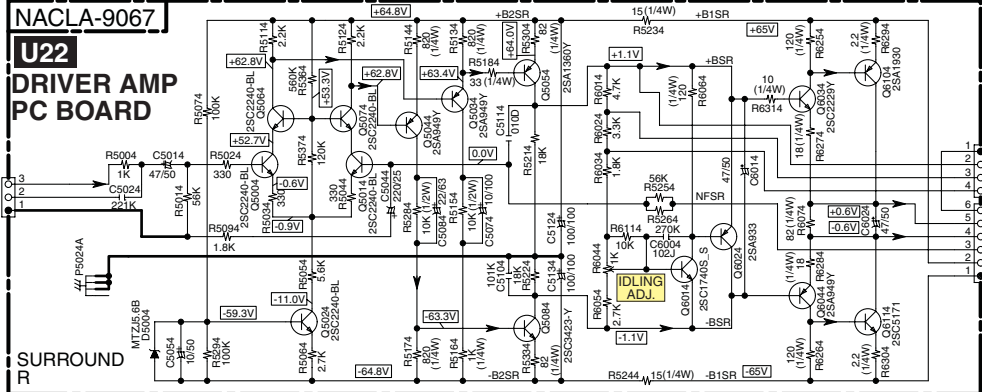
TO NAAF-9039 SD-5:H3

2



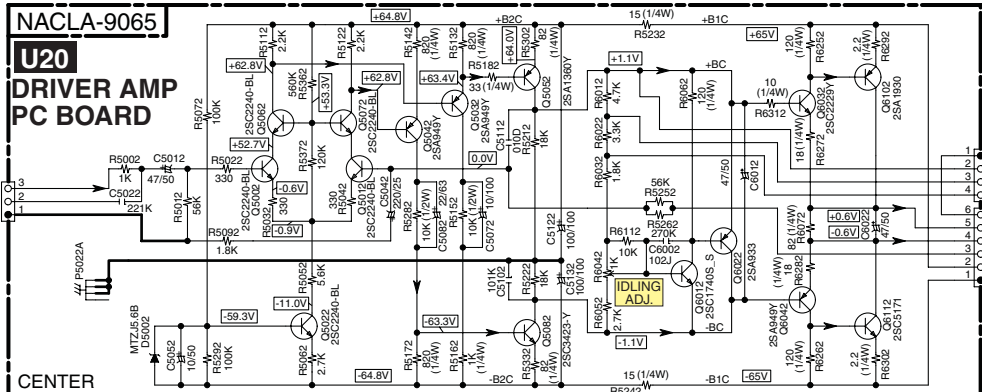
TO NAAF-9039 SD-5:H2

3



TO NAAF-9039 SD-5:H2

4



TO NAAF-9039 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-4:B1

TO NAAF-9039 SD-4:B2

TO NAAF-9039 SD-4:B3

TO NAAF-9039 SD-4:B4

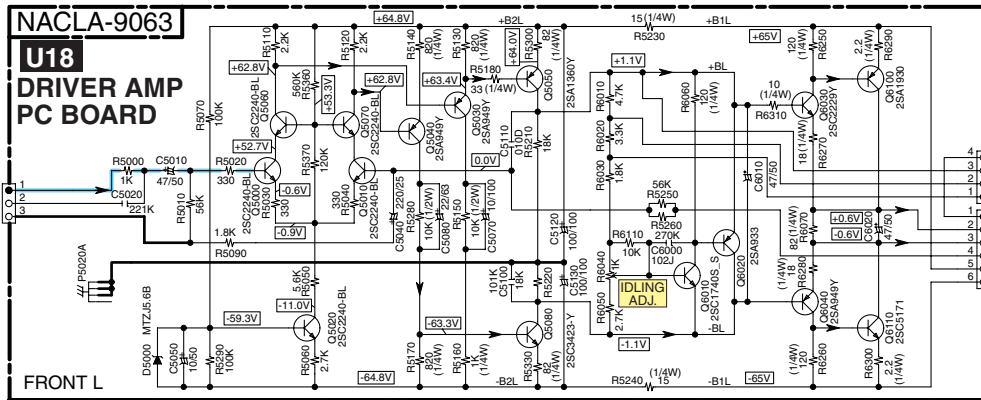
TO NAAF-9039 SD-5:H3

TO NAAF-9039 SD-5:H3

TO NAAF-9039 SD-5:H2

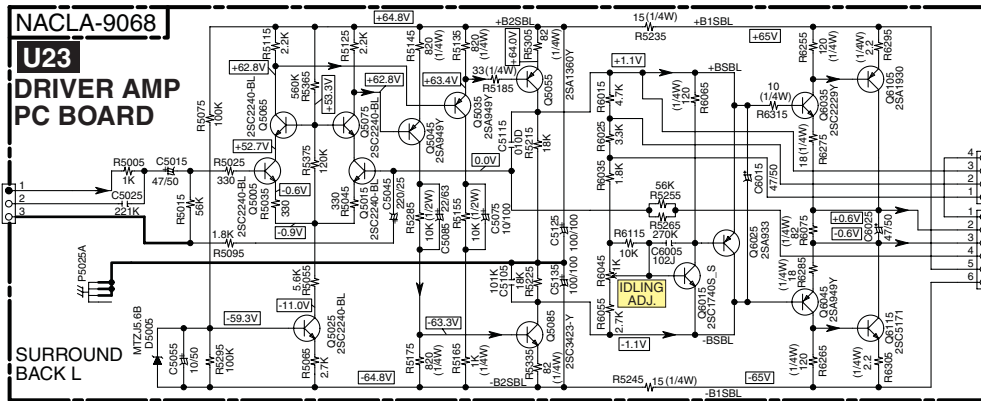
TO NAAF-9039 SD-5:H1

TO NAAF-9039
SD-5:H4



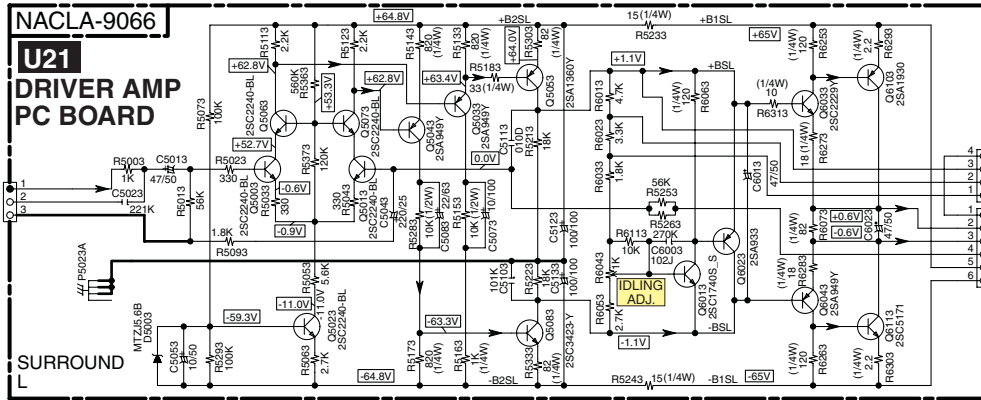
TO NAAF-9039
SD-5:H4

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 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 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS ($\text{---} \text{---} \text{---}$) ARE IN $\mu\text{F/WV}$.
- ALL CAPACITORS ARE IN pF/50VWV 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

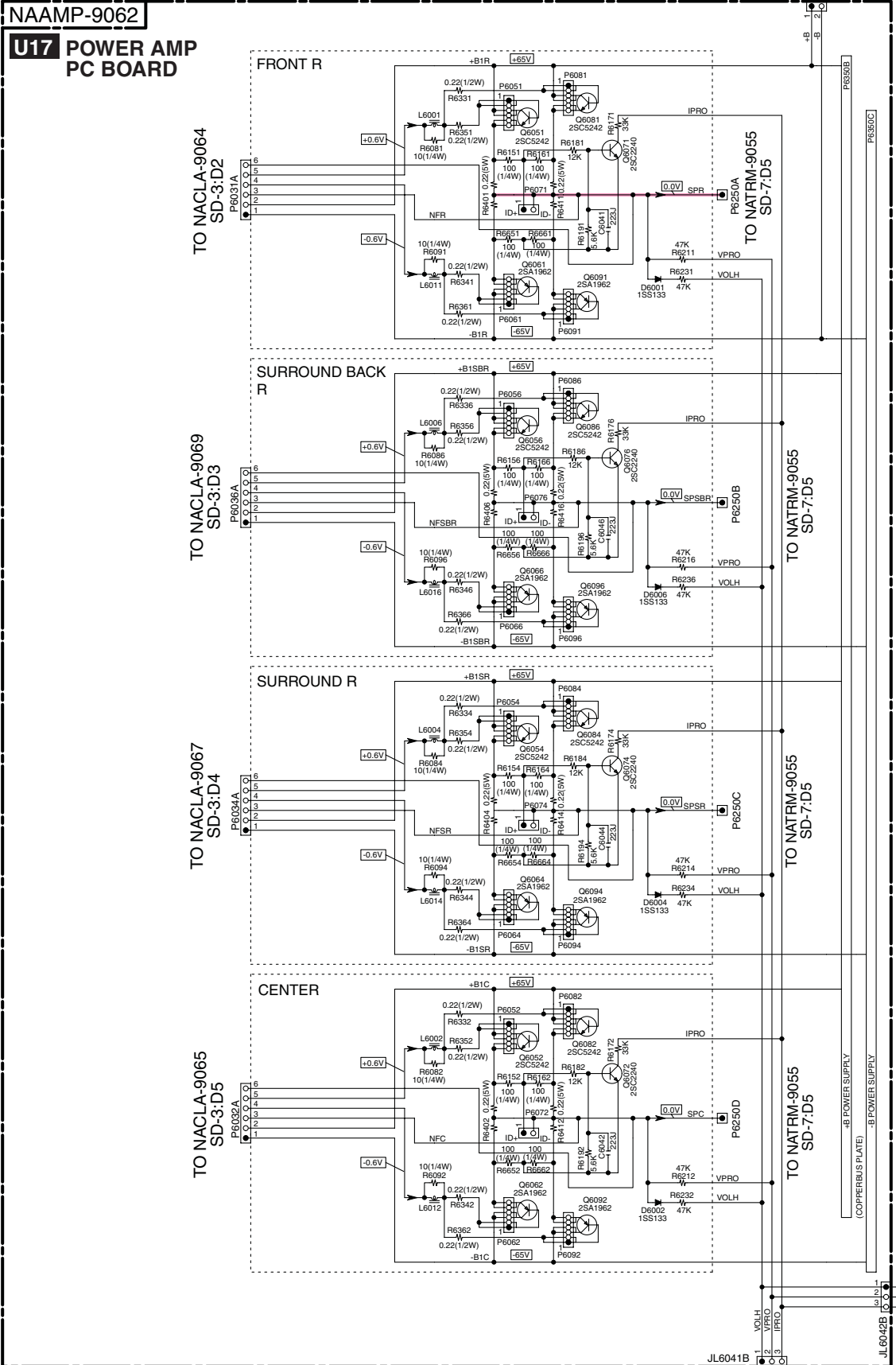
B

C

D

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

TO NAAF-9039
SD-5:F3



TO NAAF-9039
SD-5:E3

1

2

3

4

5

JL6042B
COPPER PLATE

TO NAAF-9039
SD-5:F3

NAAMP-9061

**U16 POWER AMP
PC BOARD**

TO NACLA-9063
SD-3:H2

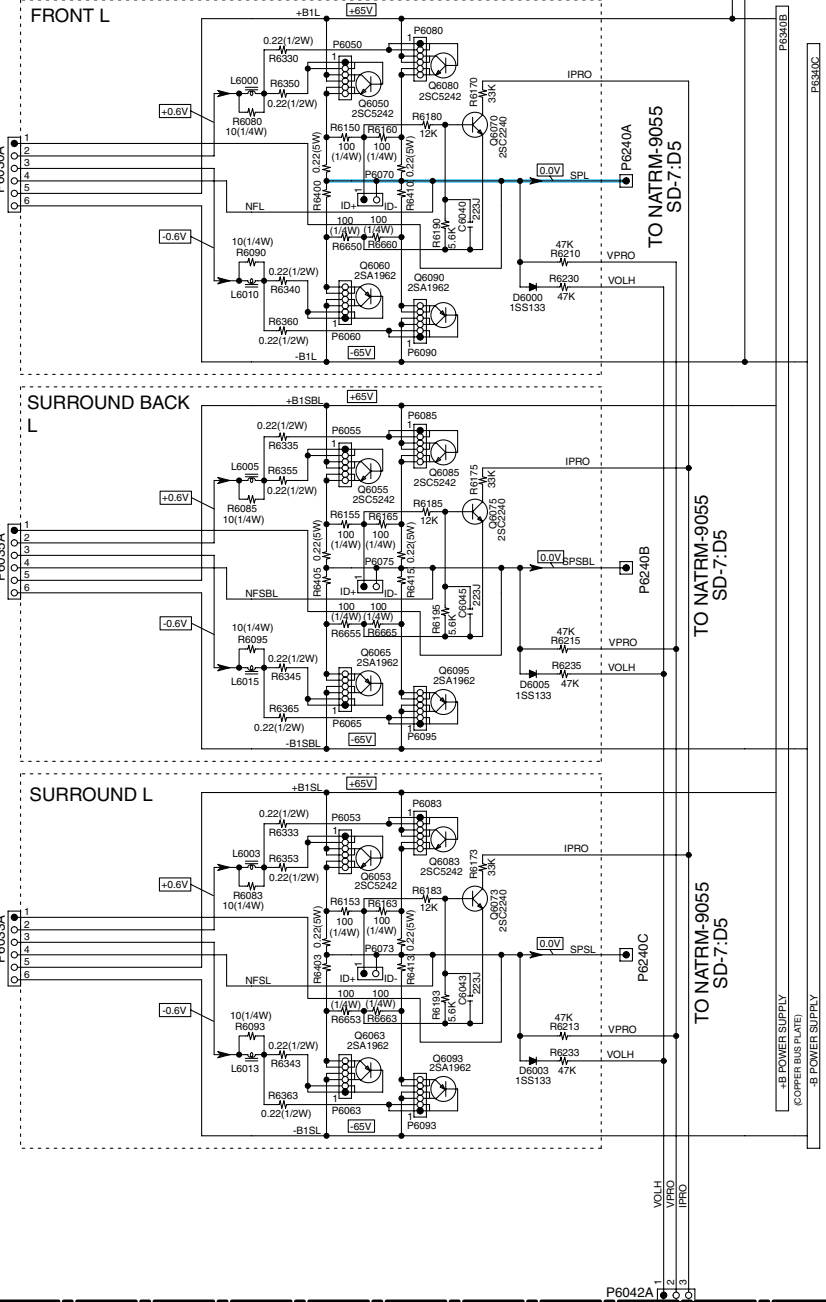
TO NACLA-9068
SD-3:H3

TO NACLA-9066
SD-3:H4

FRONT L

SURROUND BACK
L

SURROUND L



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 $\mu\text{F/WV}$.
- 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.

<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

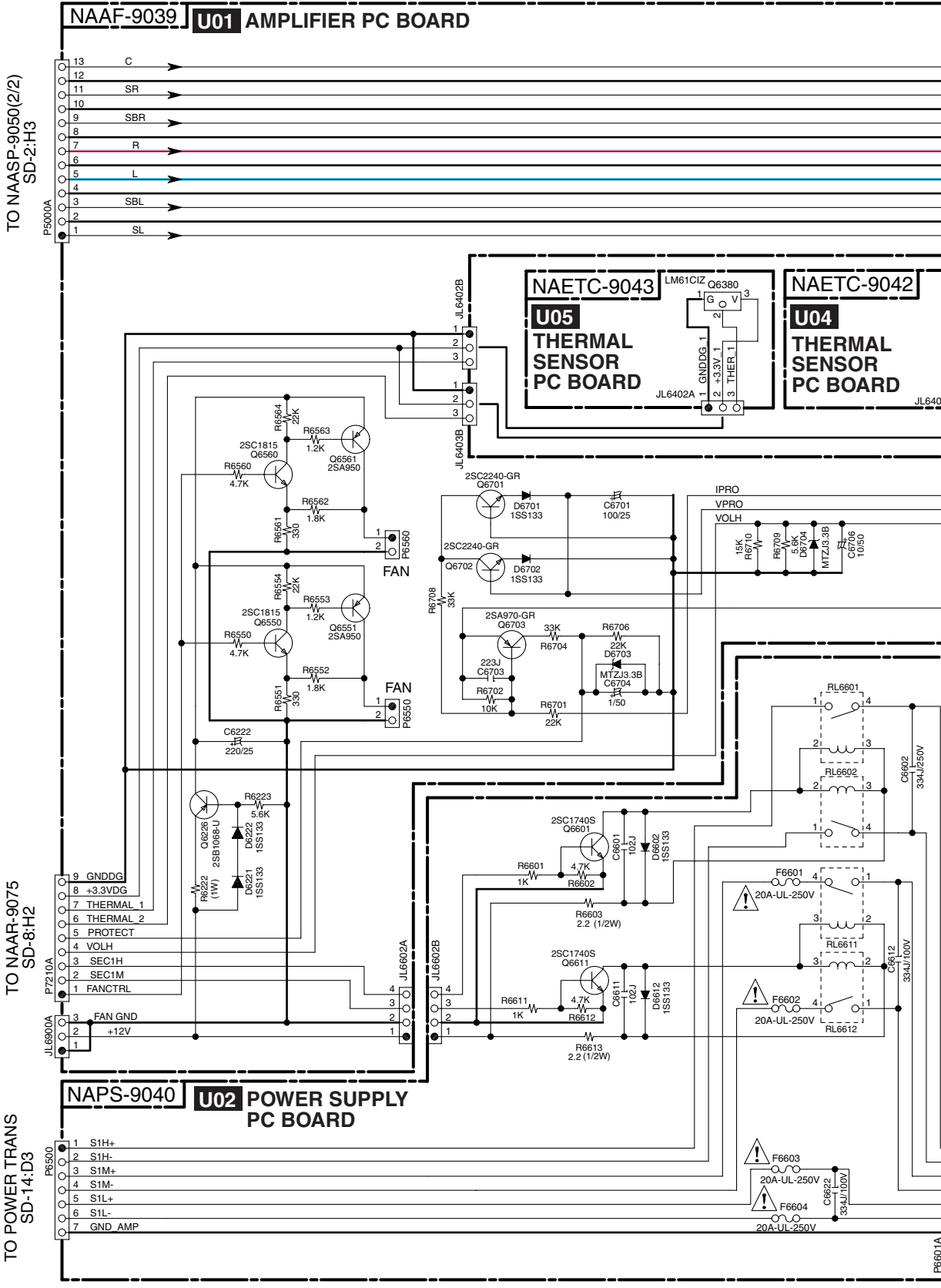
1

2

3

4

5



E

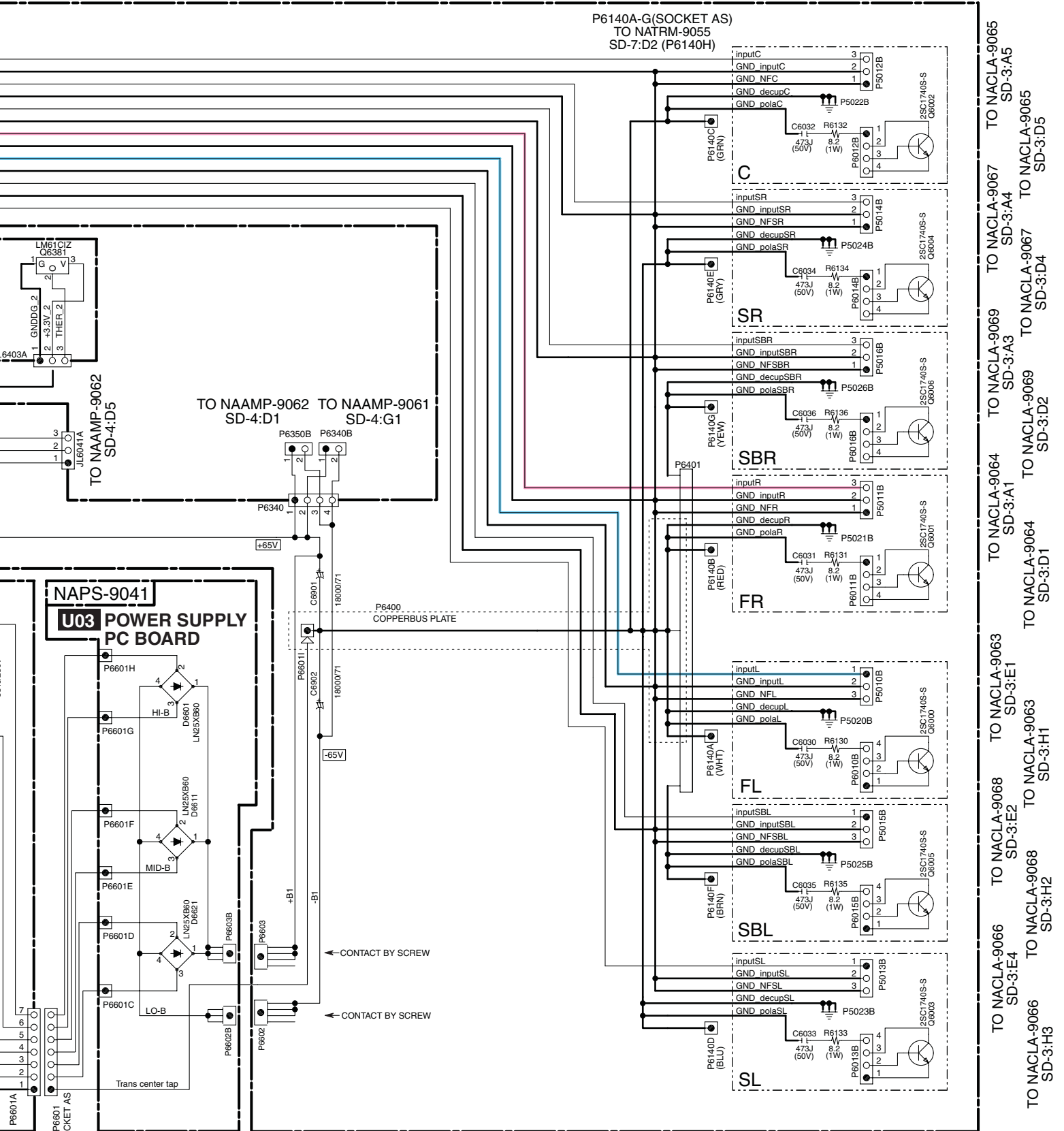
F

G

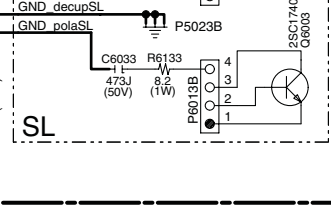
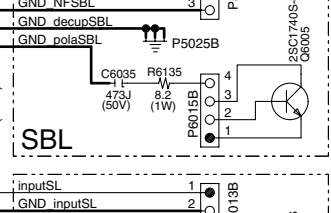
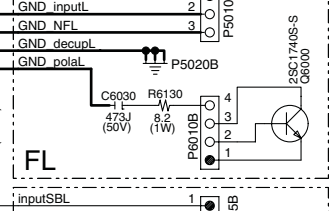
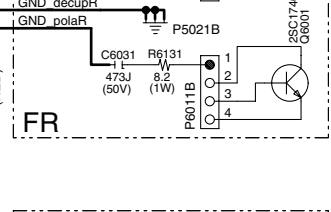
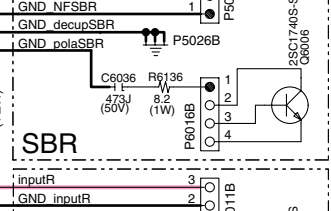
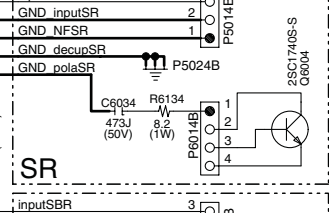
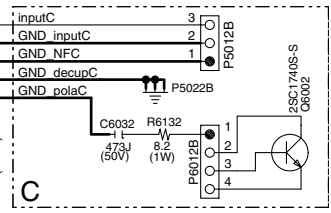
H

<Note>

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



P6140A-G(SOCKET AS)
TO NATRM-9055
SD-7:D2 (P6140H)



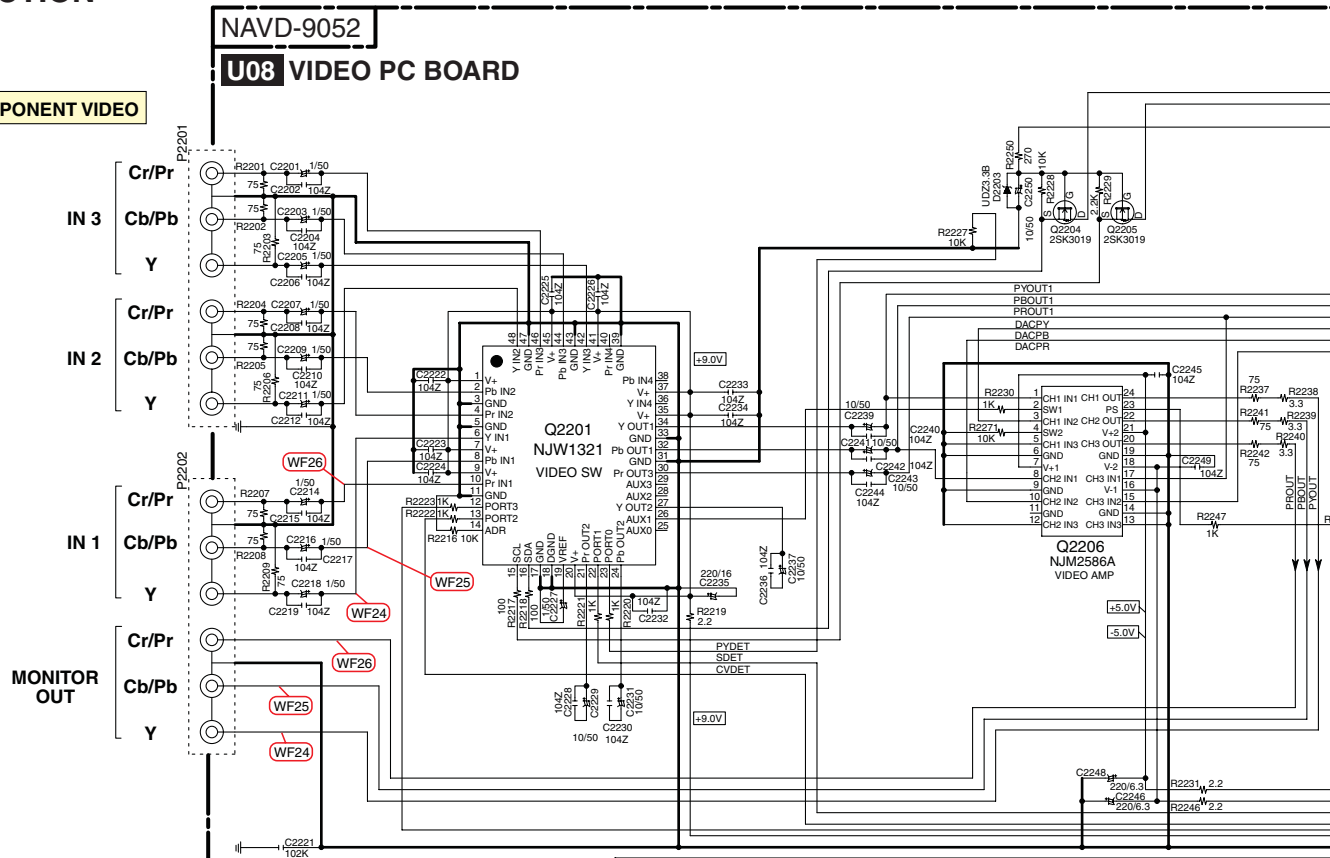
TO NAAMP-9062 SD-4:D5
TO NAAMP-9061 SD-4:G1
TO NAAMP-9062 SD-4:D1
TO NAAMP-9061 SD-4:G1
TO NACLA-9066 SD-3:A5
TO NACLA-9067 SD-3:A4
TO NACLA-9067 SD-3:D4
TO NACLA-9069 SD-3:A3
TO NACLA-9069 SD-3:D2
TO NACLA-9064 SD-3:A1
TO NACLA-9064 SD-3:D1
TO NACLA-9063 SD-3:E1
TO NACLA-9063 SD-3:H1
TO NACLA-9068 SD-3:E2
TO NACLA-9068 SD-3:H2
TO NACLA-9066 SD-3:E4
TO NACLA-9066 SD-3:H4
TO NACLA-9066 SD-3:H5

A B C D

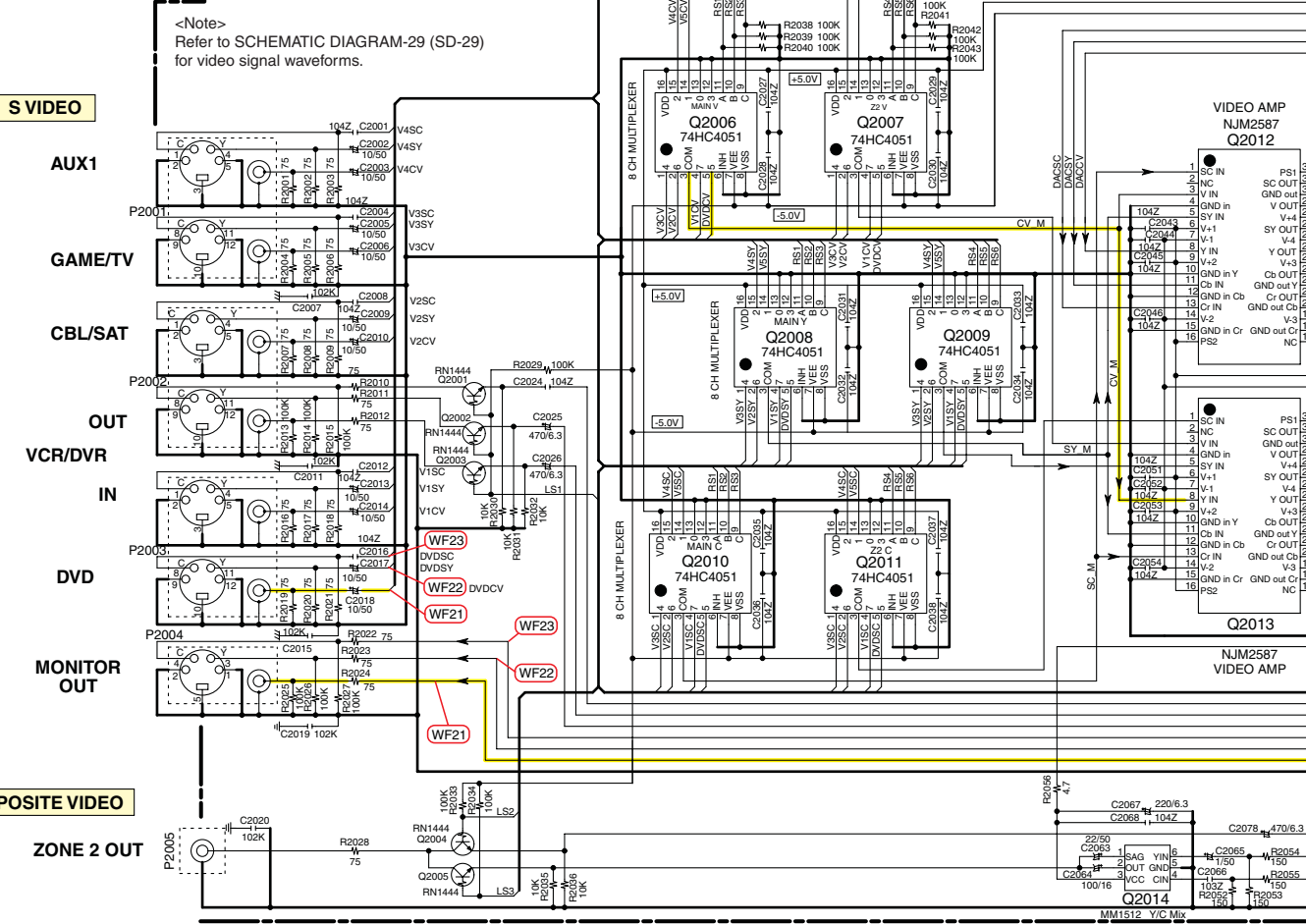
SCHEMATIC DIAGRAMS-6 (SD-6)
VIDEO SECTION

1
2
3
4
5

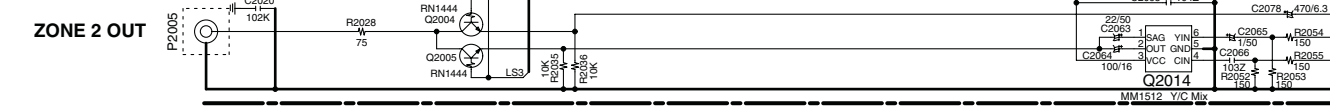
COMPONENT VIDEO



S VIDEO

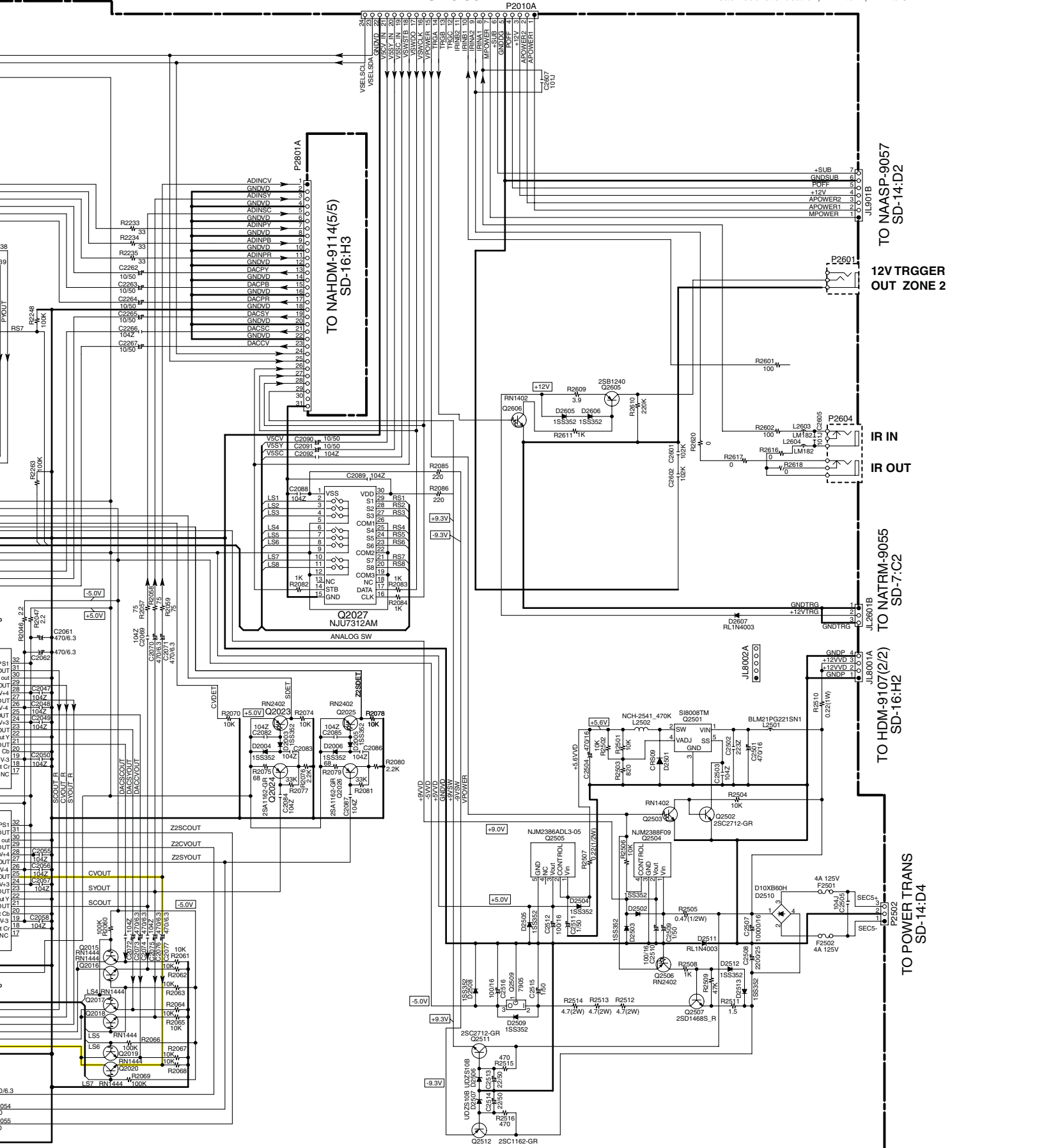


COMPOSITE VIDEO



TO NAAR-9075
SD-8:G3

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



TO NAASP-9057
SD-14:D2

12V TRIGGER
OUT ZONE 2

IR IN

IR OUT

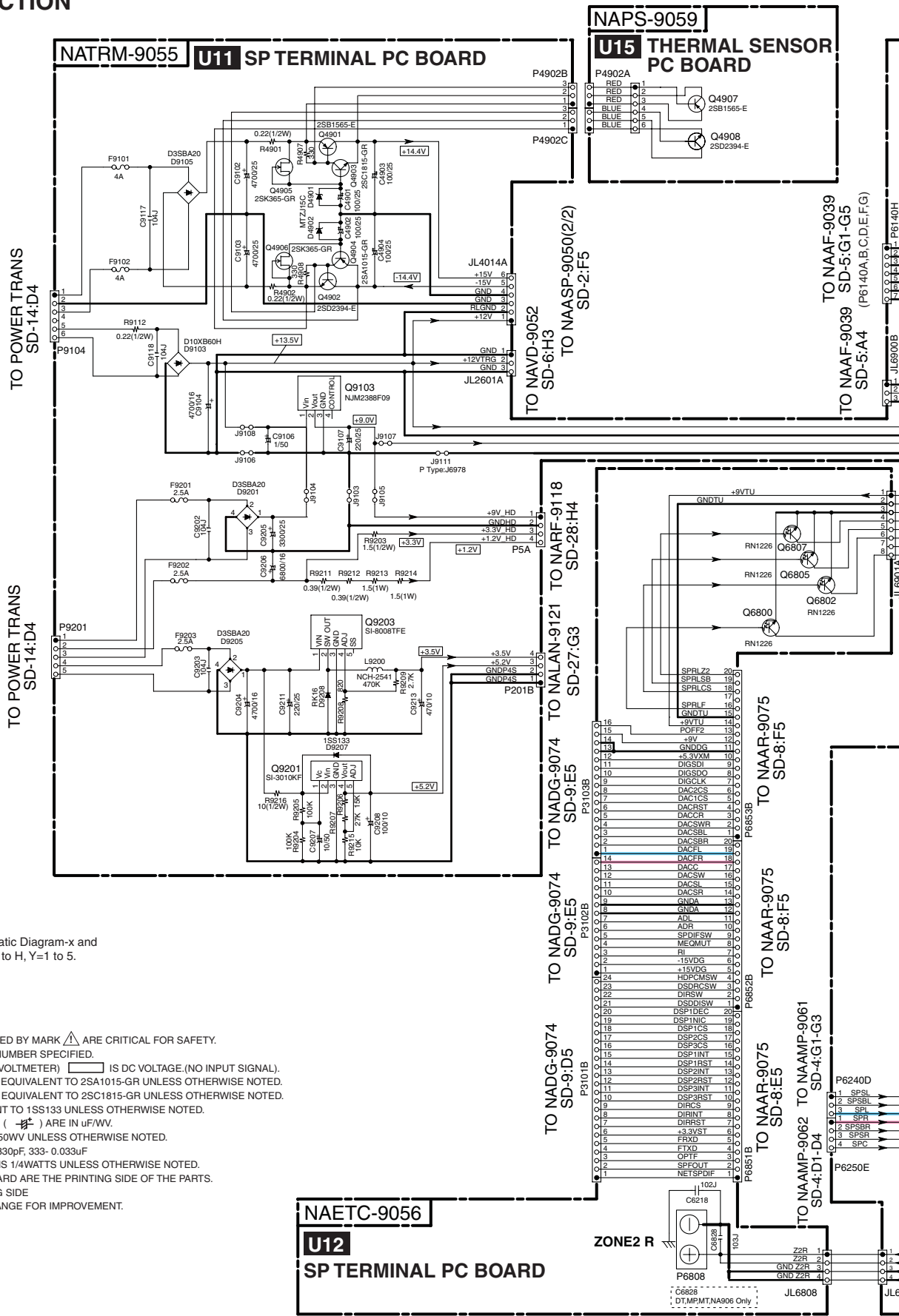
TO NAATRM-9055
SD-7:C2

TO HDM-9107(2/2)
SD-16:H2

TO POWER TRANS
SD-14:D4

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

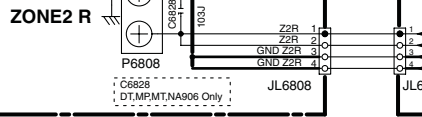
1
2
3
4
5

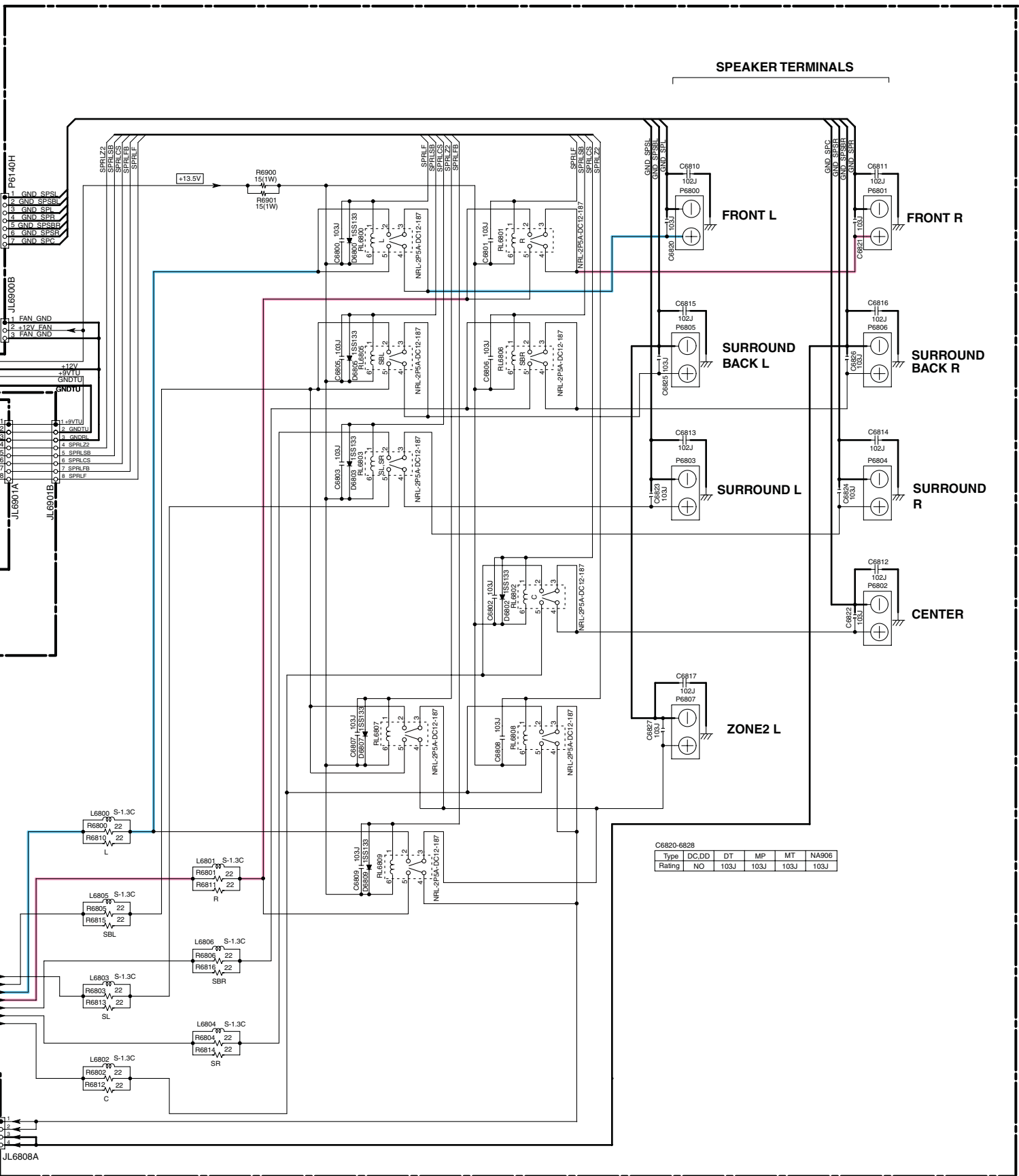


<Note>
SD-x:Y is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

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

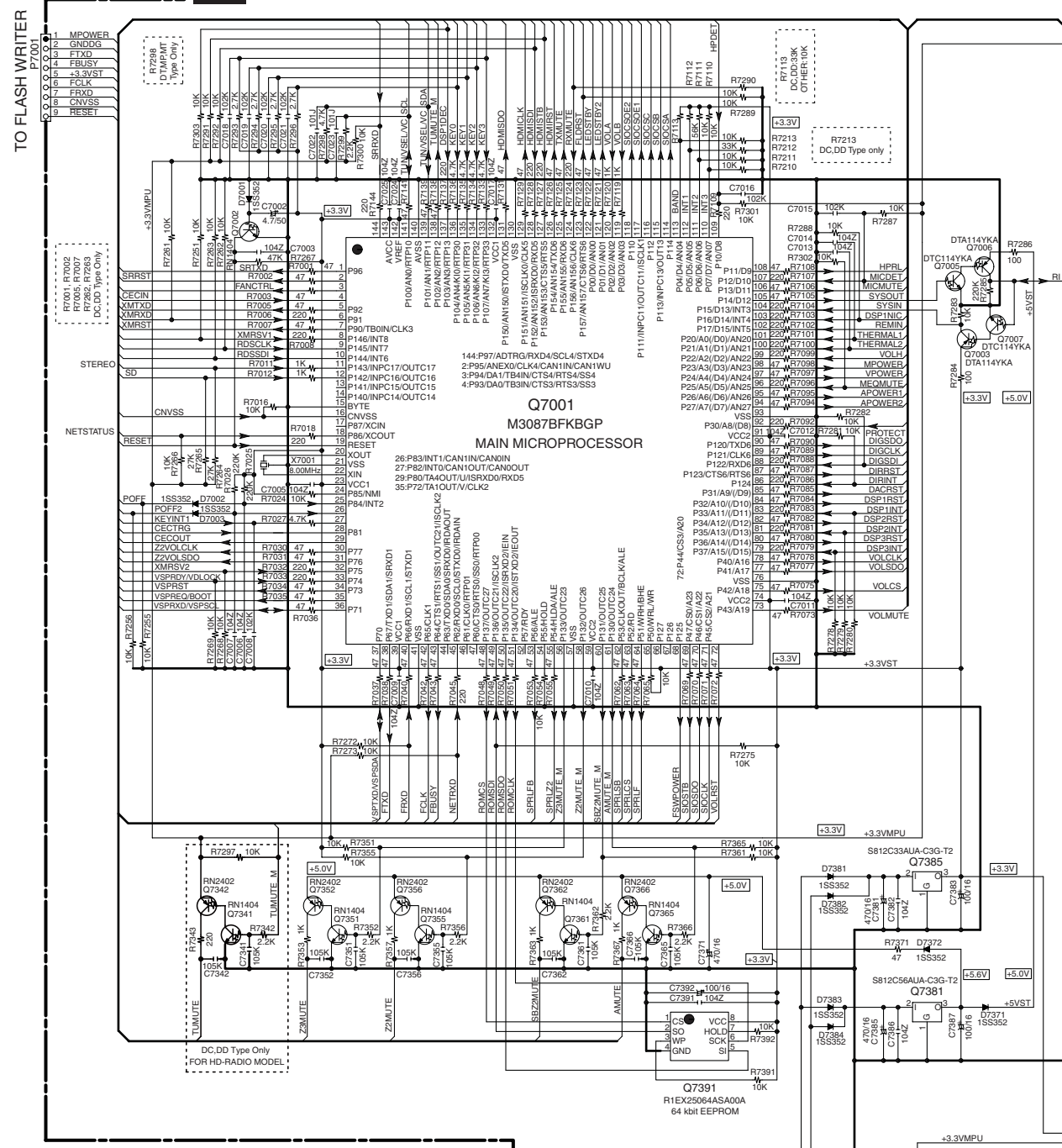
B

C

D

SCHEMATIC DIAGRAMS-8 (SD-8) MICROPROCESSOR SECTION

NAAR-9075 U28 MICROPROCESSOR PC BOARD



<Note>
SD-x:XX 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/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.

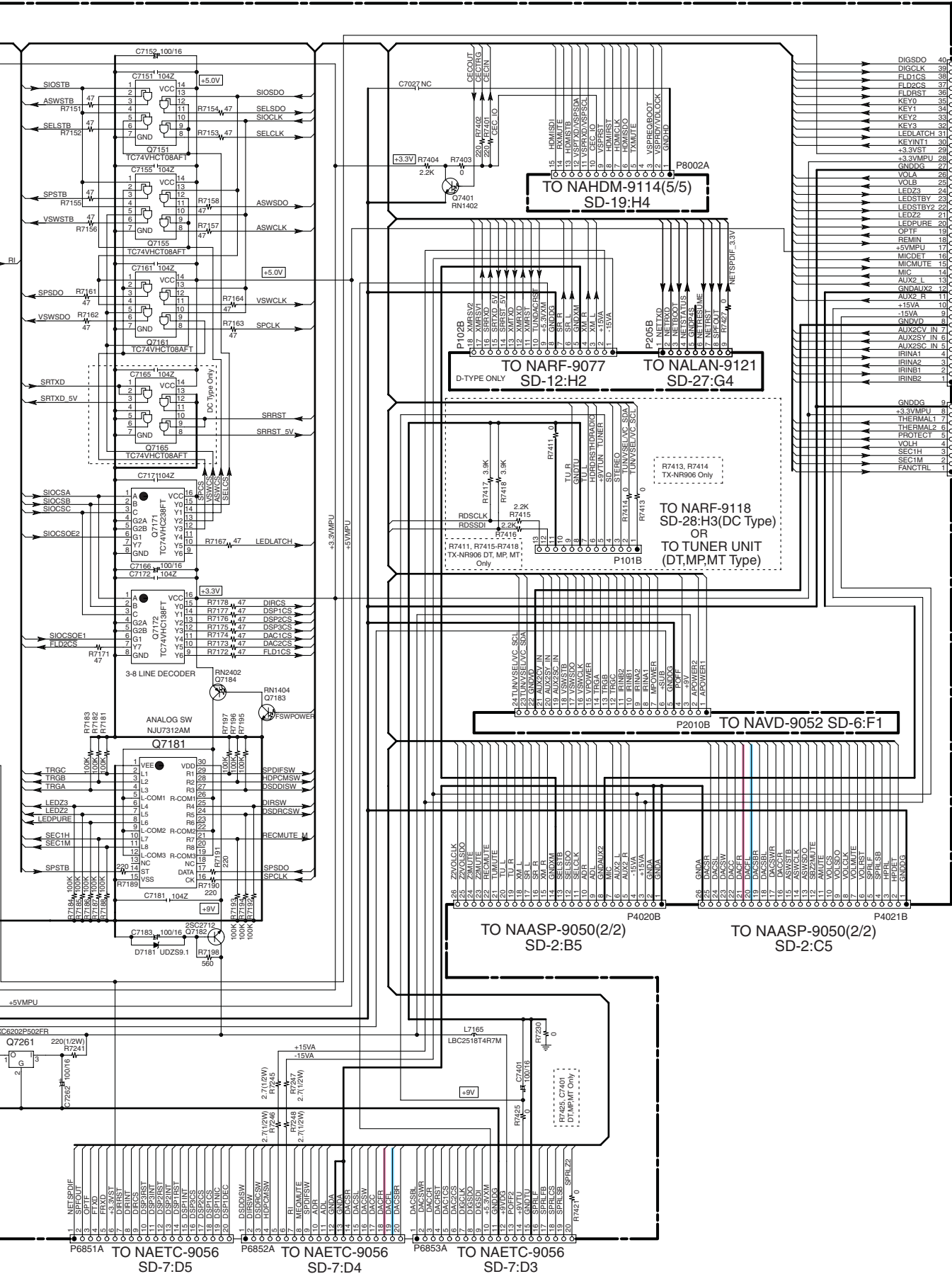
1

2

3

4

5



P7501A
TO NADIS-9085 SD-13:B2

P7210B
TO NAAF-9039 SD-5:A4

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 (DT,MP,MT Type) Only

**SCHEMATIC DIAGRAMS-9 (SD-9)
DAC SECTION**

A B C D

1

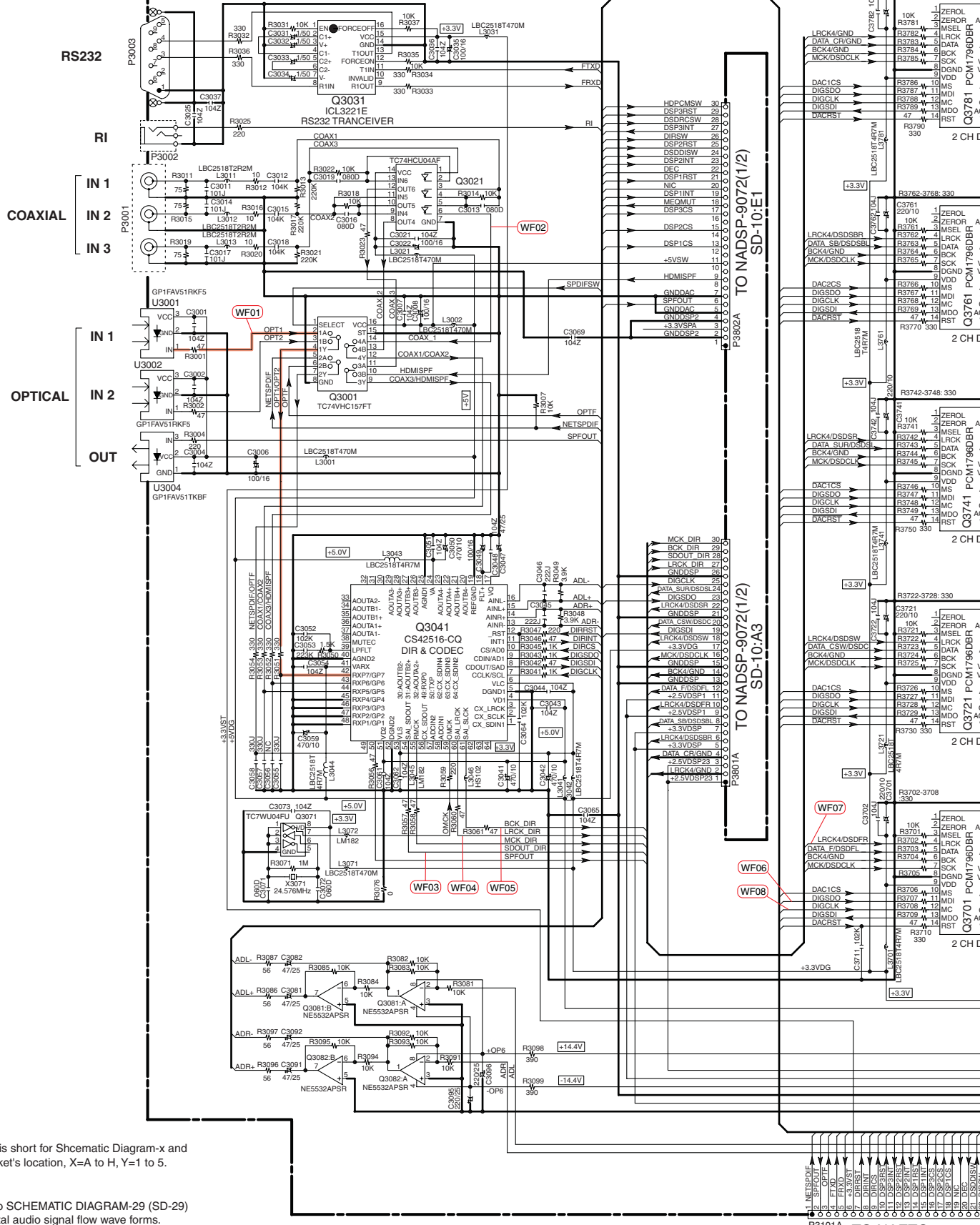
2

3

4

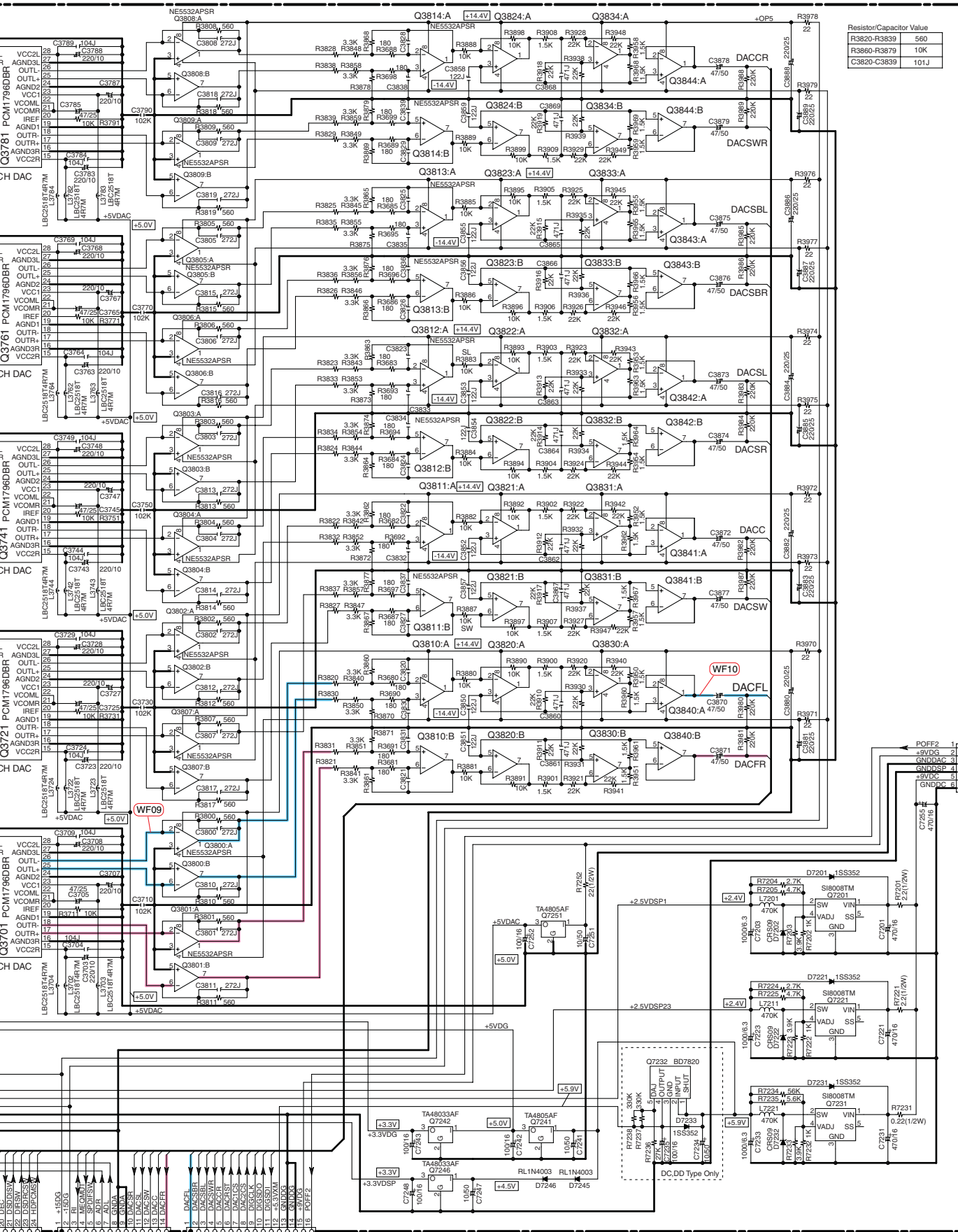
5

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).



TO NAPS-9089
SD-14:H4

JL9501A

P3102A
TO NAETC-9056
SD-7:C4

P3103A
TO NAETC-9056
SD-7:C3

DC.DD Type Only

SCHEMATIC DIAGRAMS-10 (SD-10)

DSP SECTION-1

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

TO M...

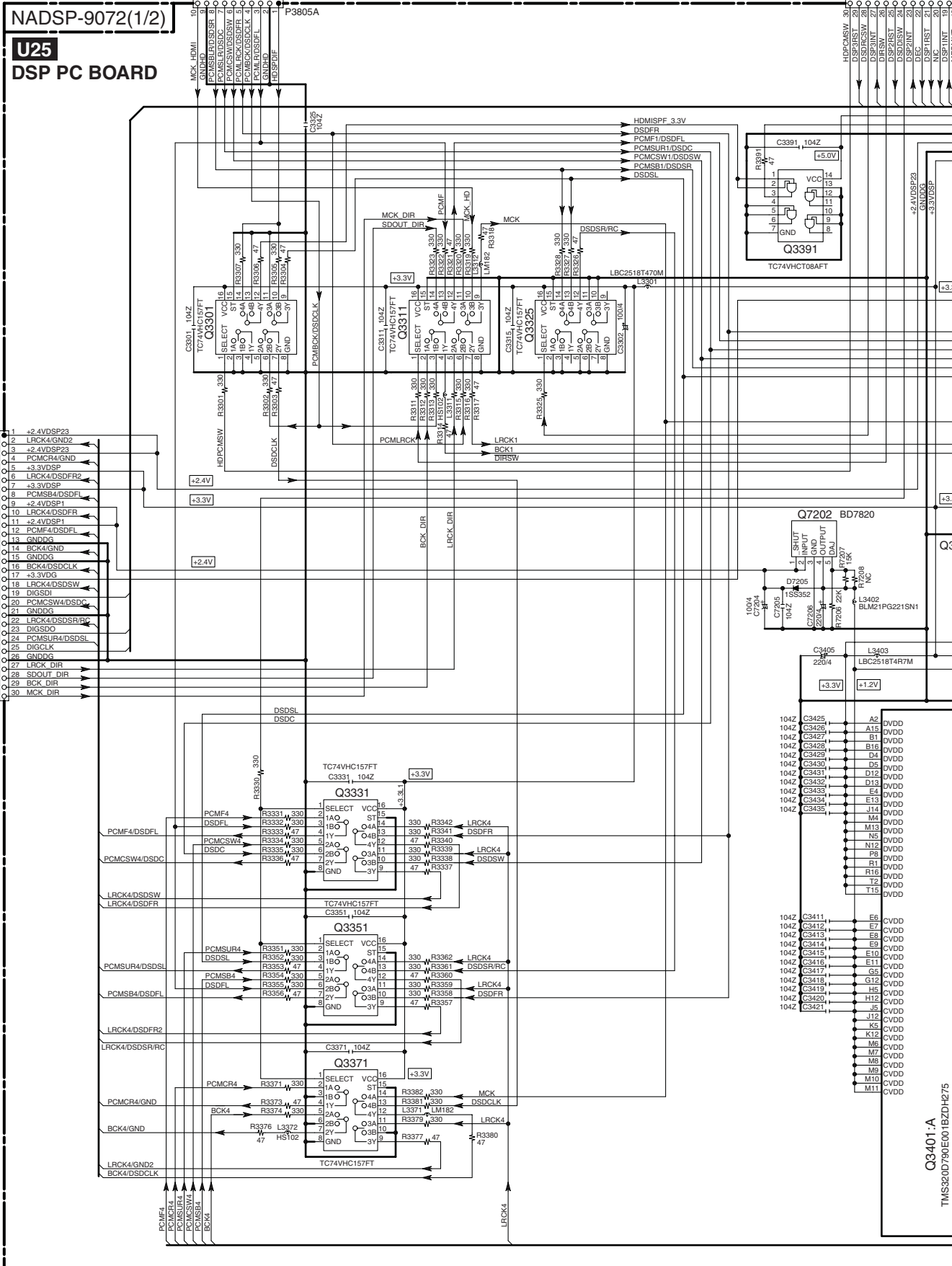
1

2

3

4

5

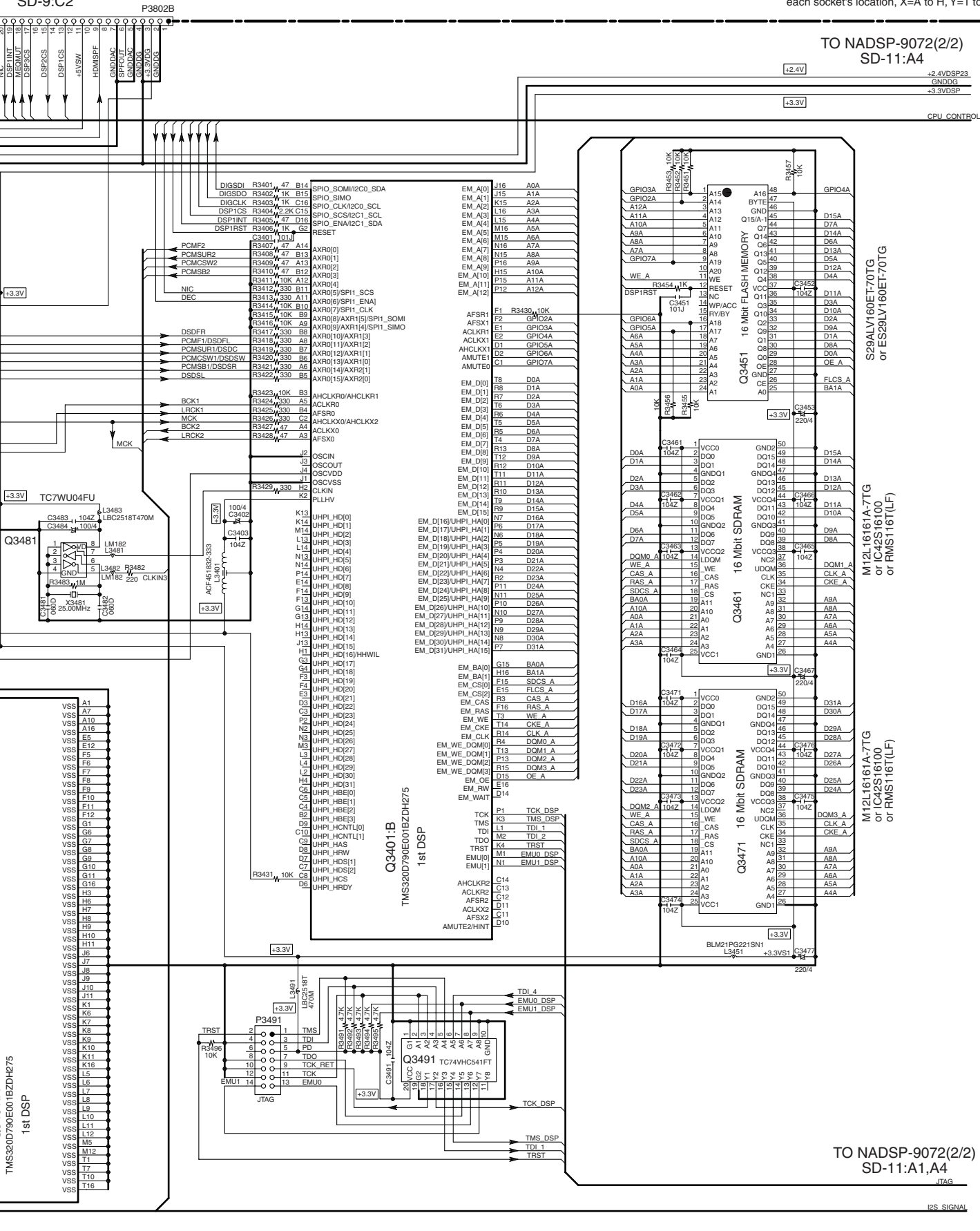


TO NADG-9074
SD-9:C3

P3401: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

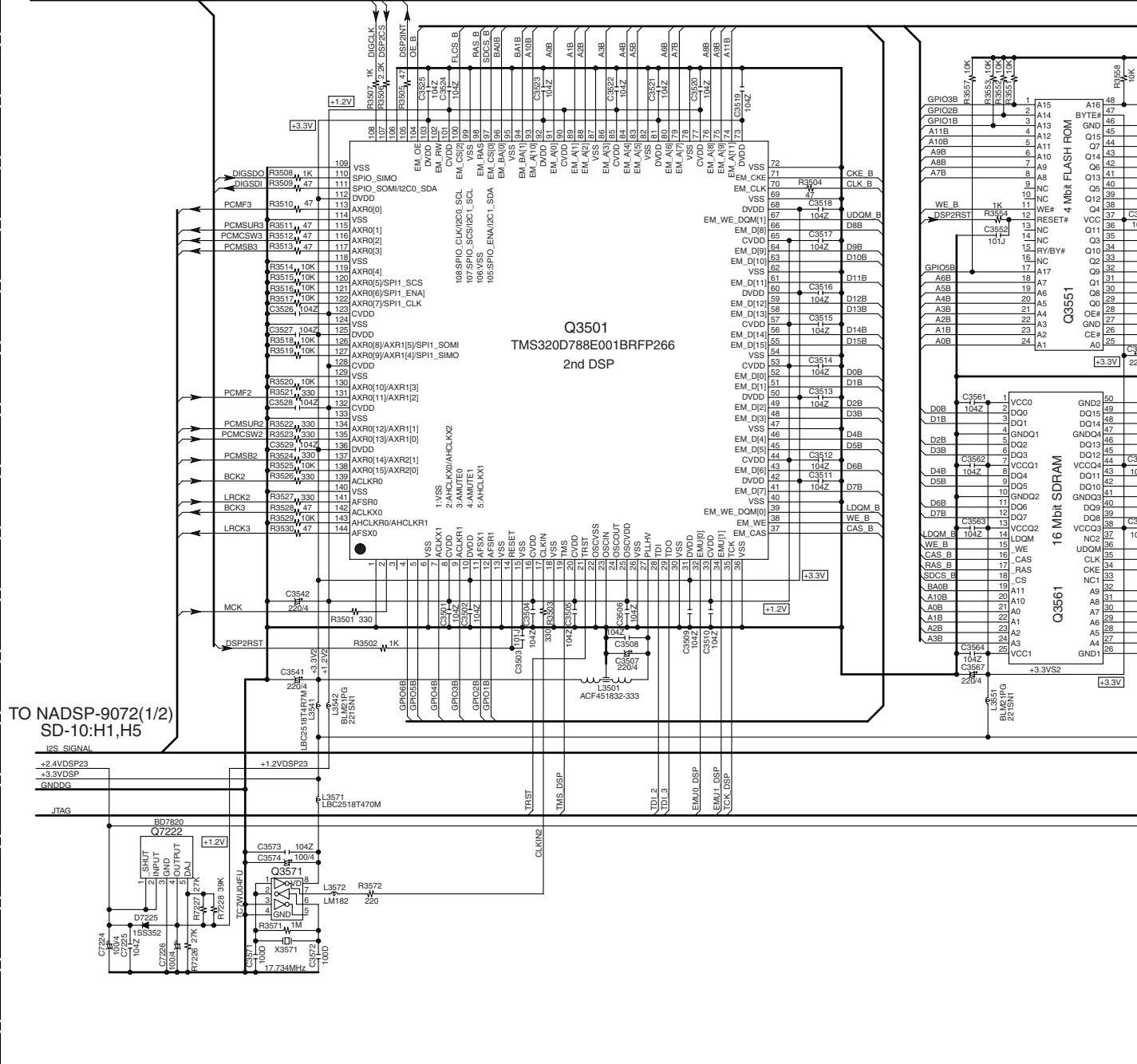
TO NADSP-9072(1/2)
SD-10:H1
CPU CONTROL

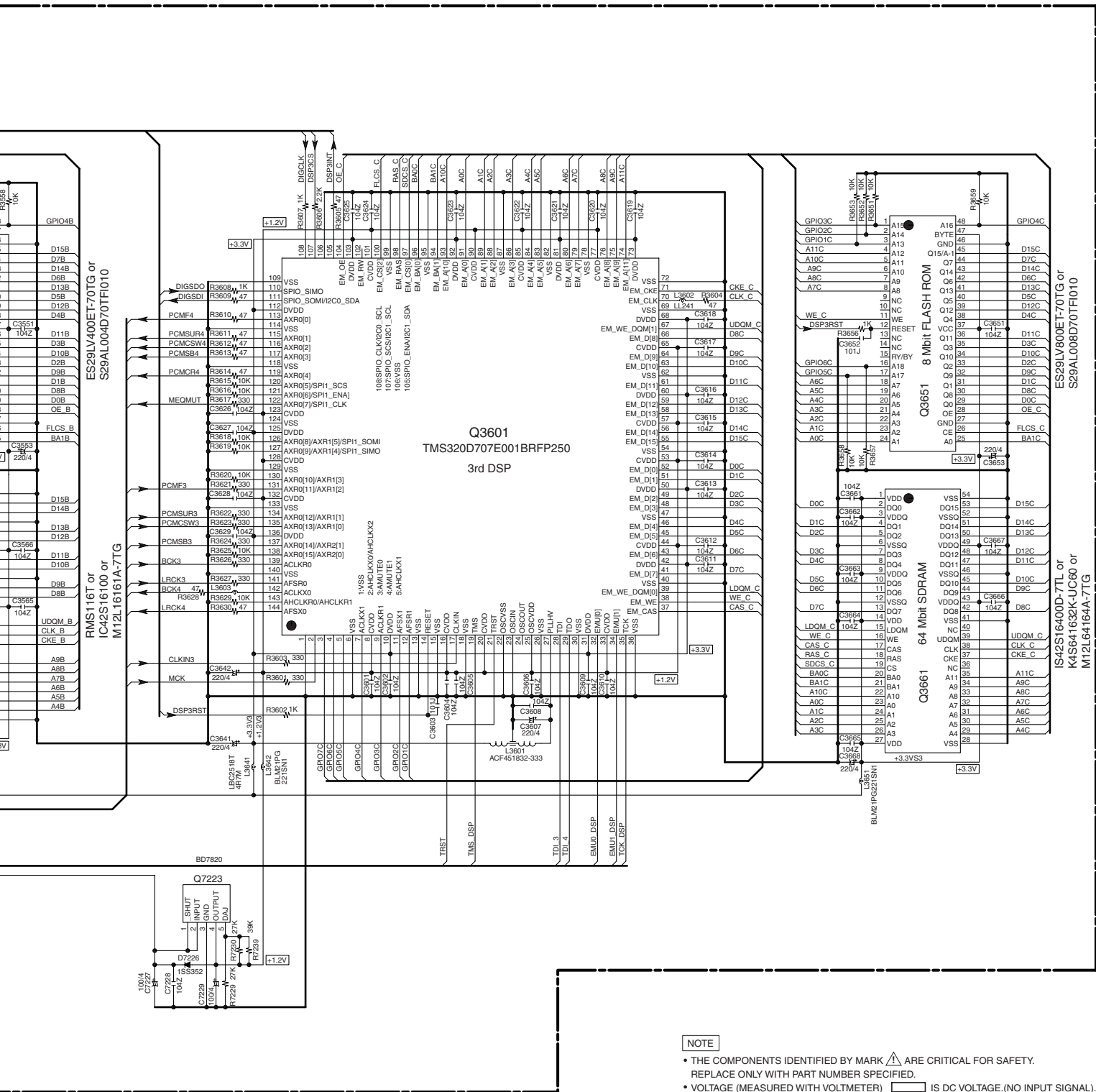
2





3

4

5





- NOTE
- 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- 0.03uF
 - 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-12 (SD-12)
XM/SIRIUS SECTION

1

2

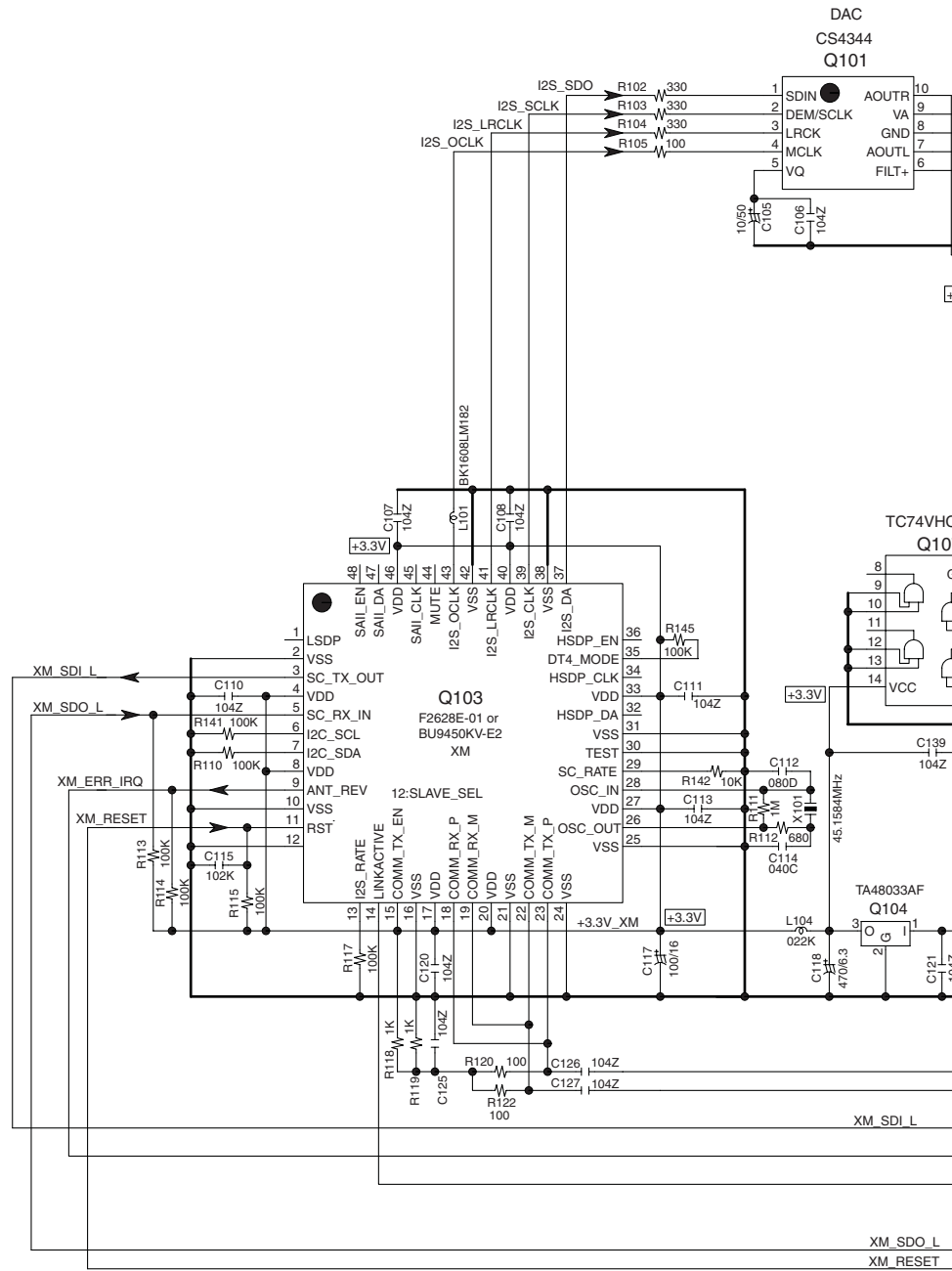
3

4

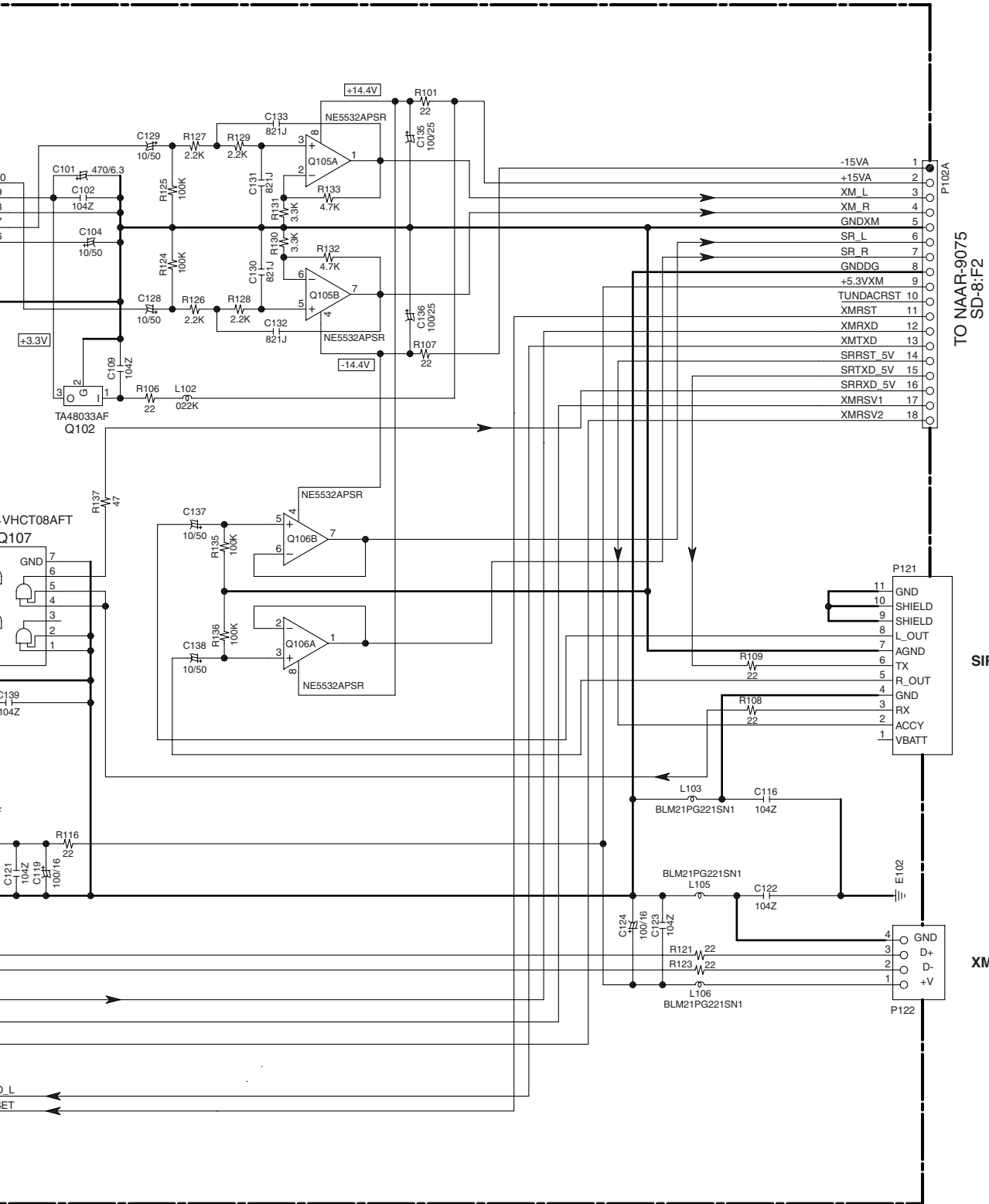
5

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.



TO NAAR-9075
SD-8:F2

SIRIUS

XM

P102A

P121

P122

- 1 -15VA
- 2 +15VA
- 3 XM_L
- 4 XM_R
- 5 GNDDXM
- 6 SR_L
- 7 SR_R
- 8 GNDDG
- 9 +5.3VXM
- 10 TUNDACRST
- 11 XMRST
- 12 XMRXD
- 13 XMTXD
- 14 SRRST_5V
- 15 SRTXD_5V
- 16 SRRXD_5V
- 17 XMRSV1
- 18 XMRSV2

- 11 GND
- 10 SHIELD
- 9 SHIELD
- 8 L_OUT
- 7 AGND
- 6 TX
- 5 R_OUT
- 4 GND
- 3 RX
- 2 ACCY
- 1 VBATT

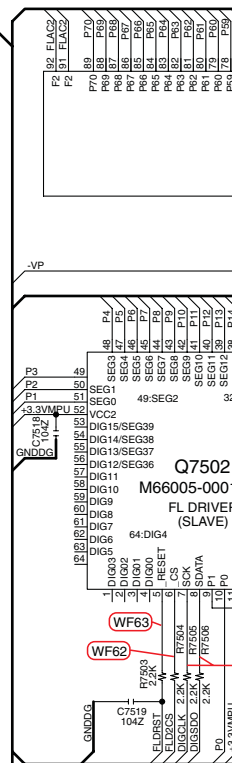
- 4 GND
- 3 D+
- 2 D-
- 1 +V

SCHEMATIC DIAGRAMS-13 (SD-13)
DISPLAY SECTION

NADIS-9085 U33 DISPLAY PC BOARD

TO NAPS-9089
SD-14:H5

TO NAAR-9075
SD-8:H2

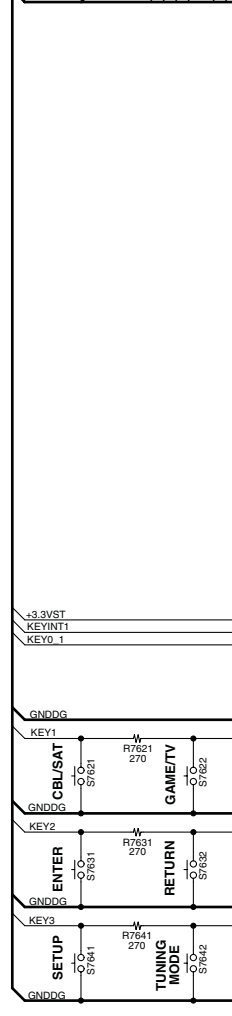
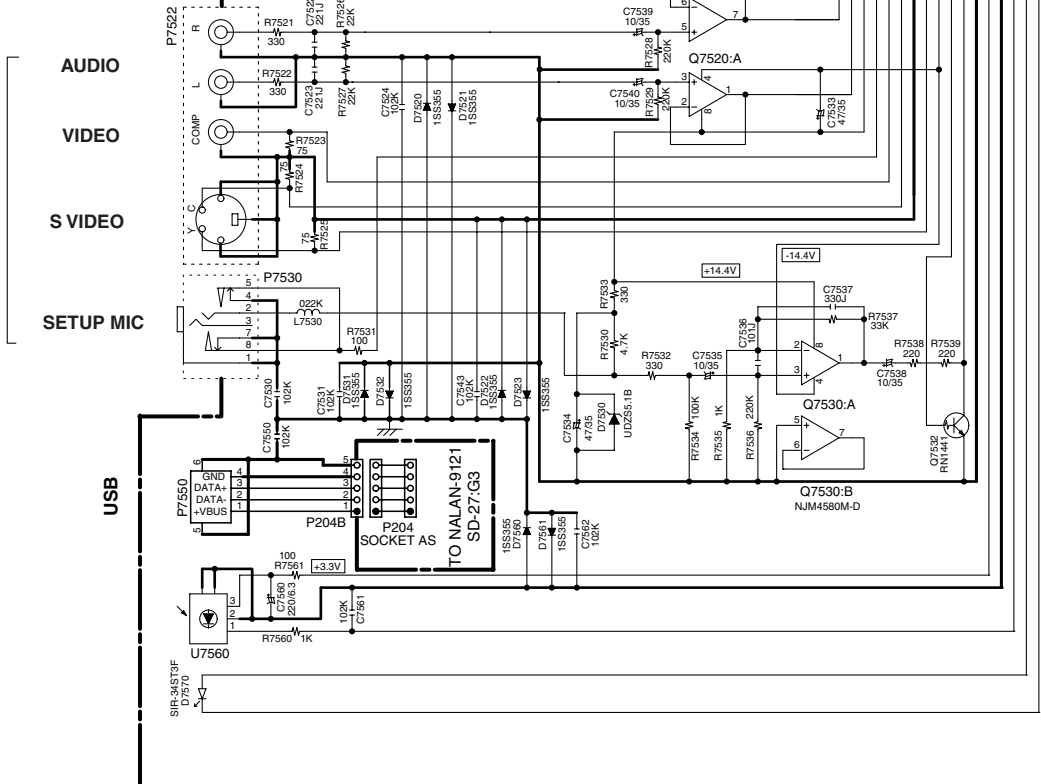
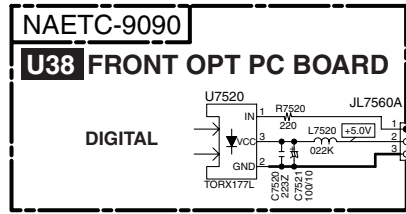


<Note>
SD-x:XY is short for Shcematic Diagram-x and each socket's location, X=A to H, Y=1 to 5.

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 $\text{pF}/50\text{V}$ 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.

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



1

2

3

4

5

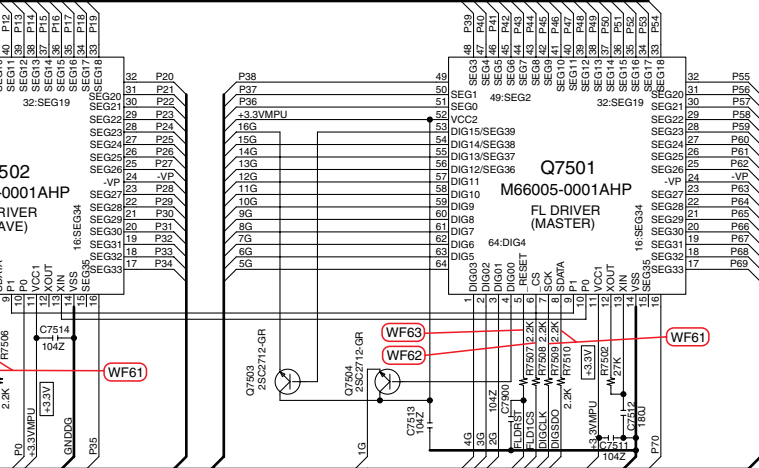
E

F

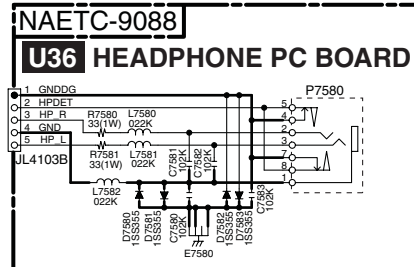
G

H

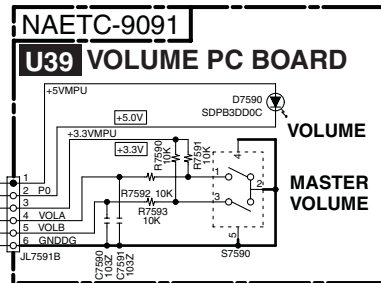
Q7500
HNA-16SL04T FL TUBE



TO NAASP-9050(2/2)
(JL4013B)
SD-2-H1

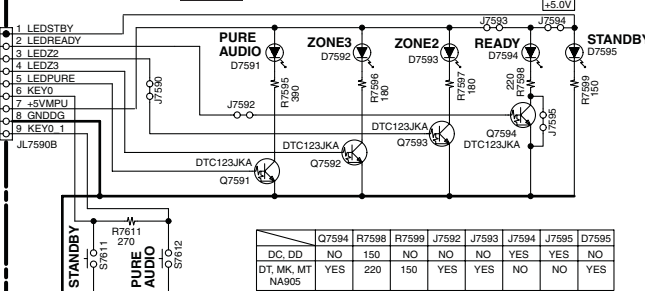


HEADPHONE



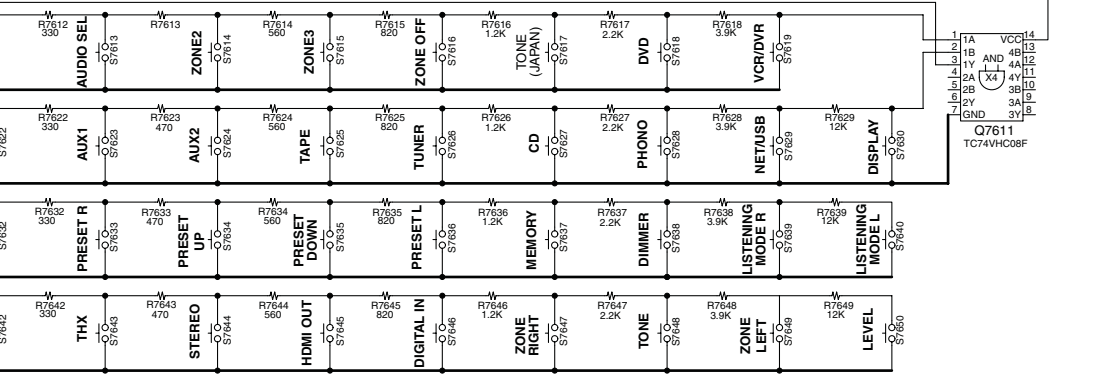
VOLUME
MASTER VOLUME

NADIS-9086 U34 DISPLAY PC BOARD



	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

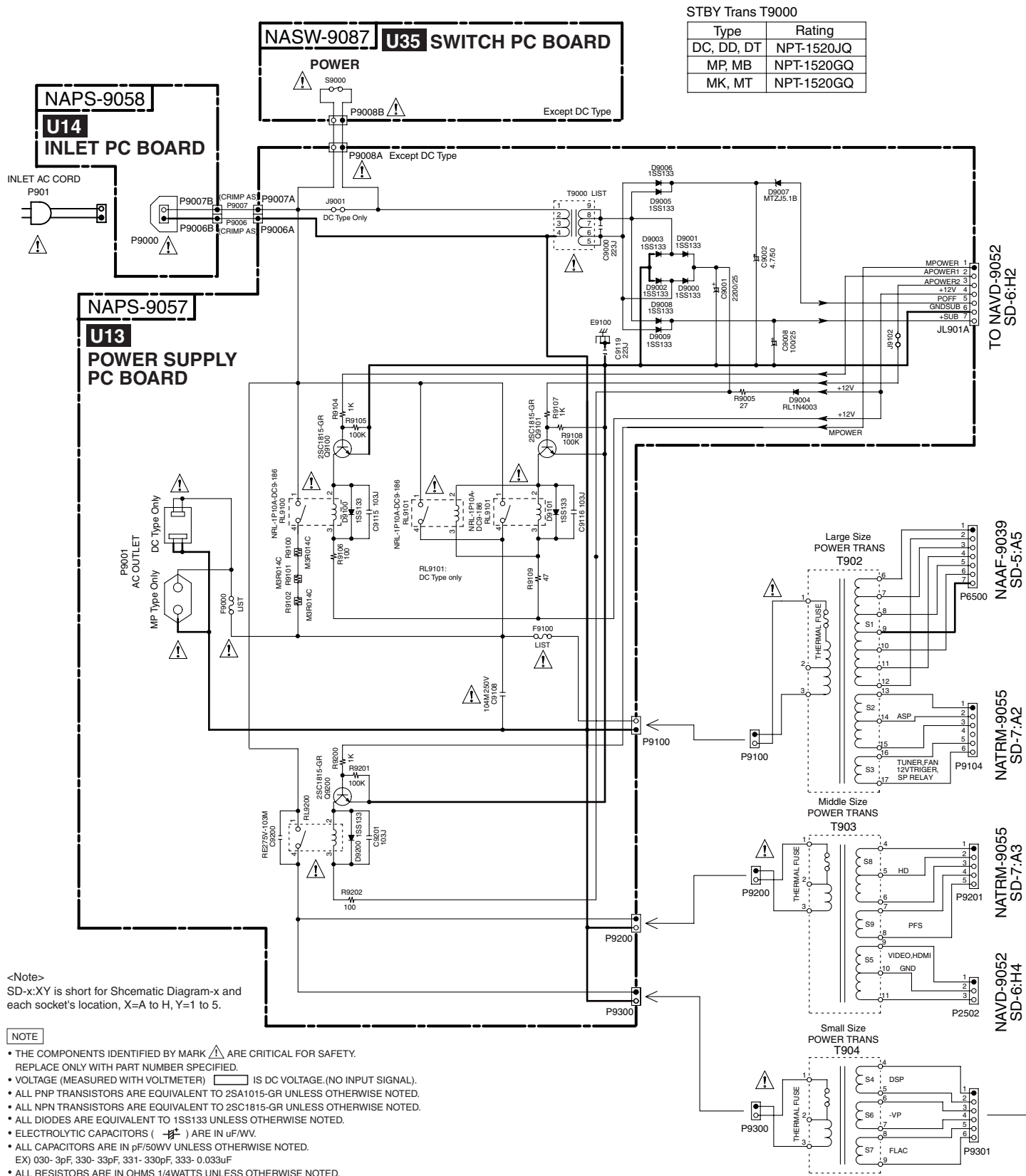
1

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

TO NAAAF-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

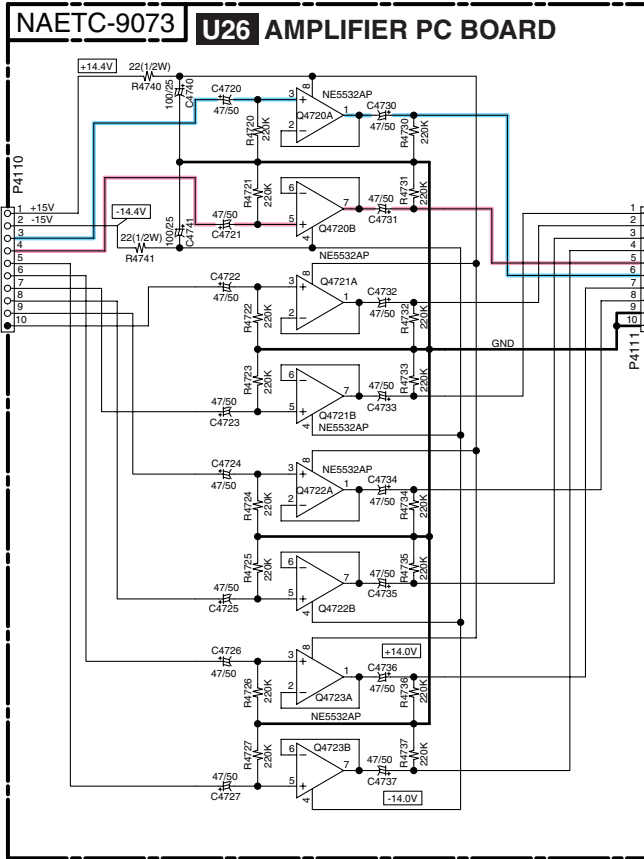
Type	Rating
DC, DD, DT	NPT-1554D
MP	NPT-1554M
MT, NA906	NPT-1554M

Power Trans T903

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

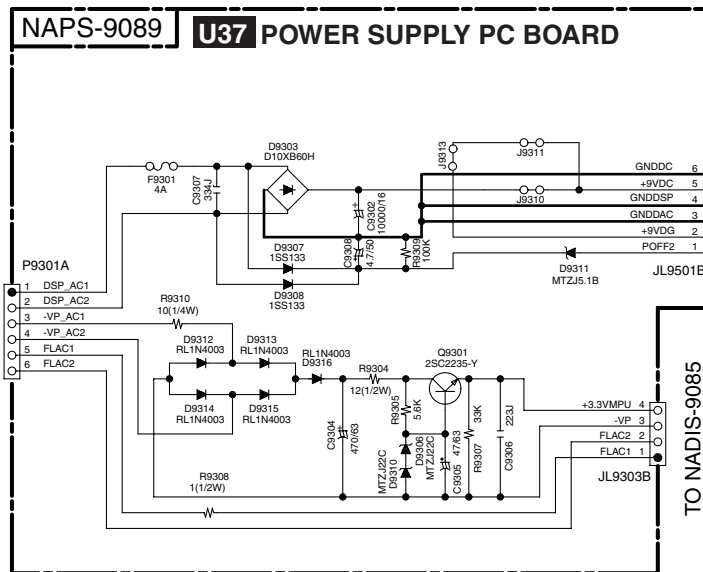
Power Trans T904

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

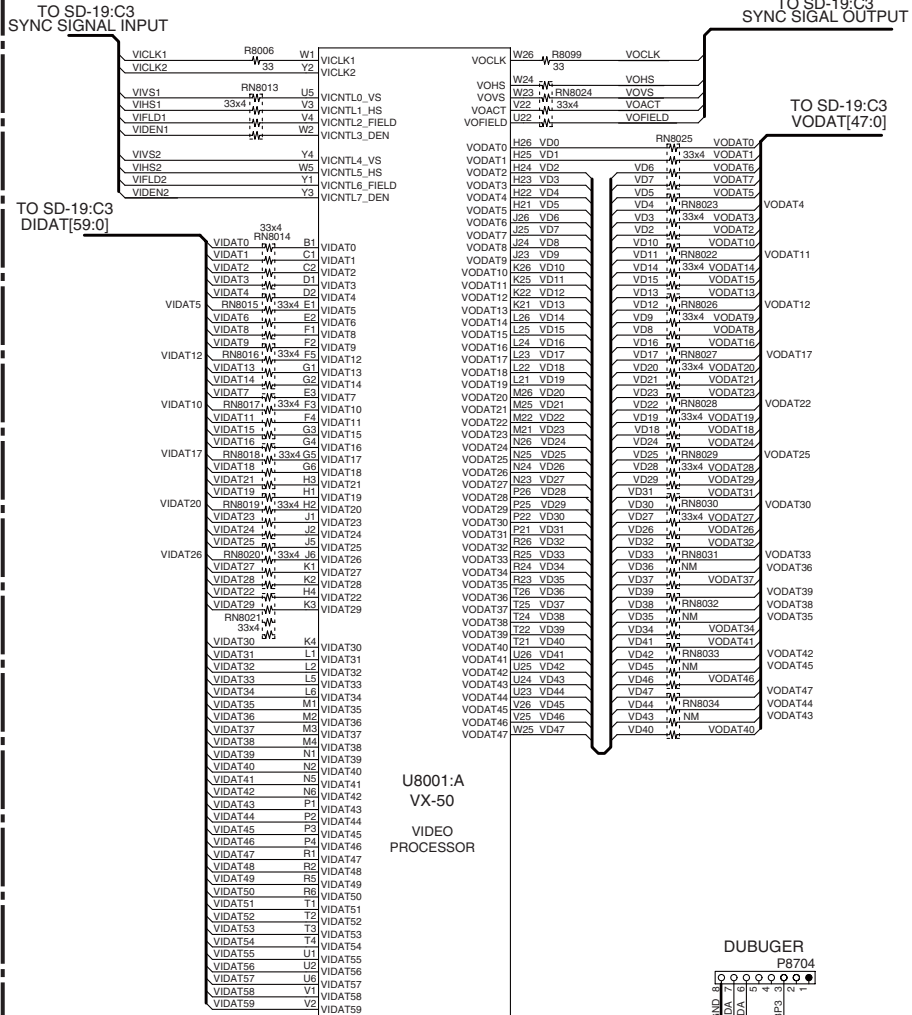
C

D

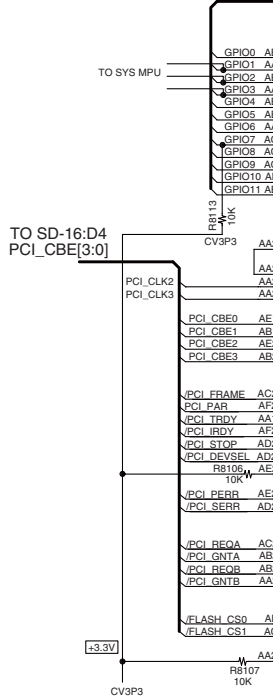
SCHEMATIC DIAGRAMS-15 (SD-15)
HDMI SECTION-1

NAHDM-9114(1/5) U42 HDMI PC BOARD

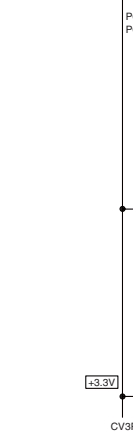
VX-50 VIDEO SIGNAL I/O PART



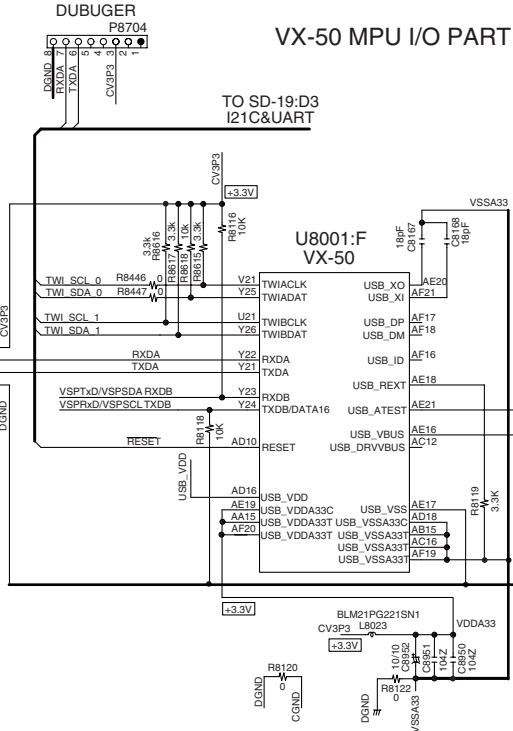
VX-50 FLASH



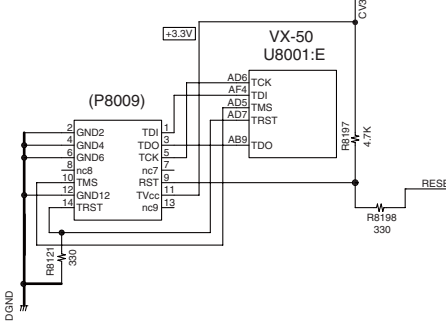
TO SD-16:D4 PCI_CBE[3:0]



VX-50 MPU I/O PART



VX-50 JTAG PART



1

2

3

4

5

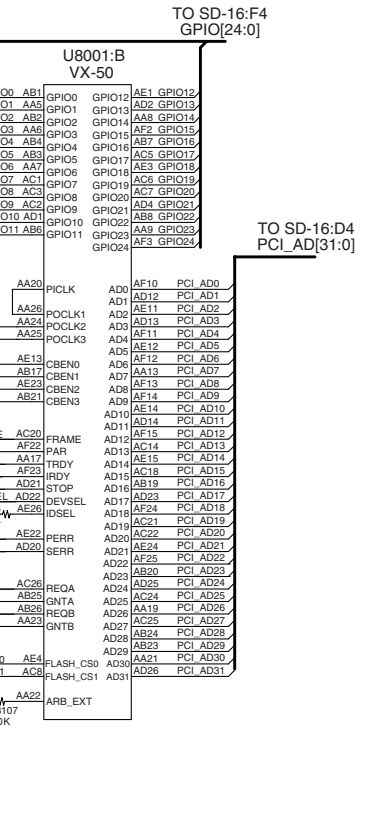
E

F

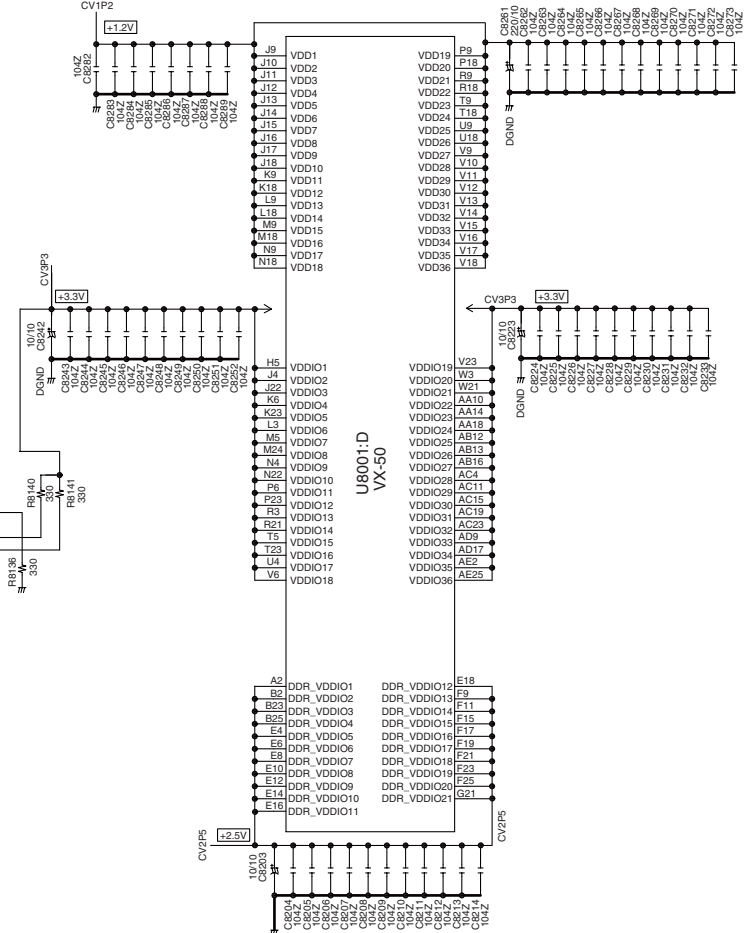
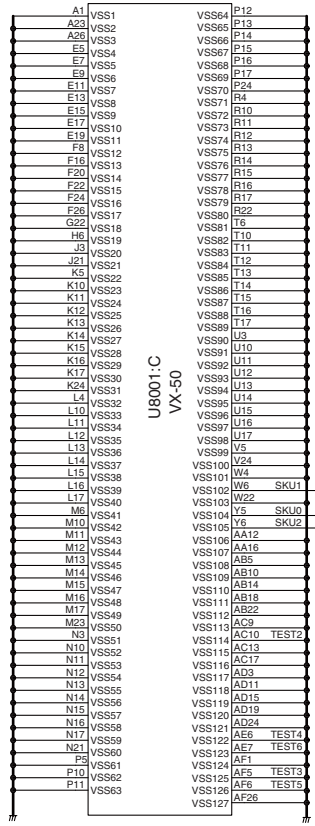
G

H

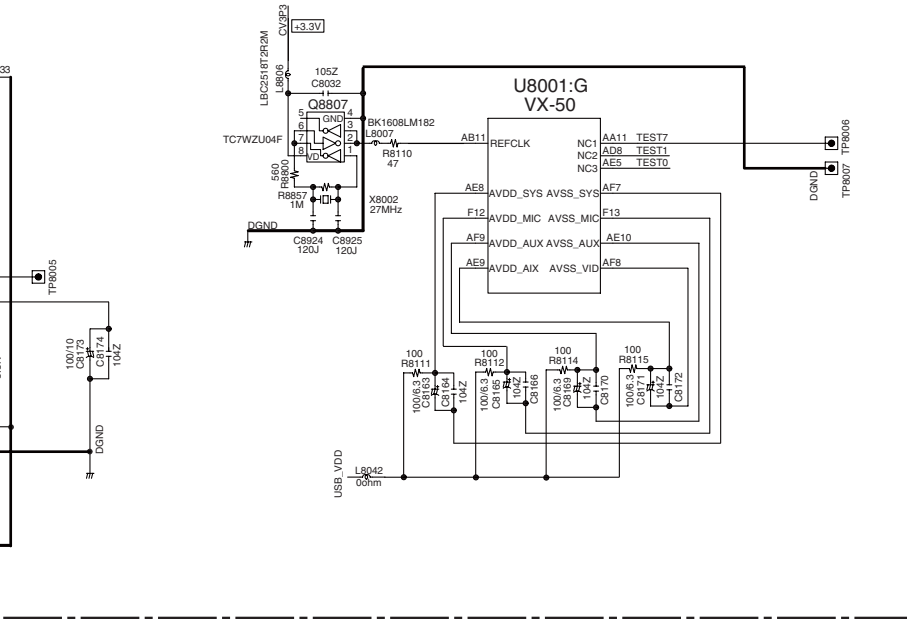
CASH MEMORY I/O PART



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
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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-16 (SD-16)
HDMI SECTION-2

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

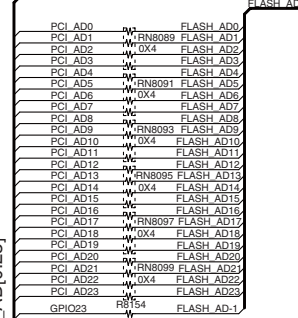
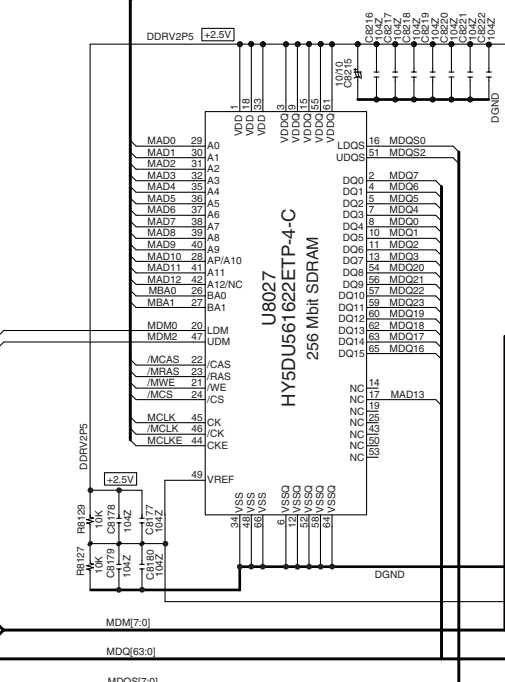
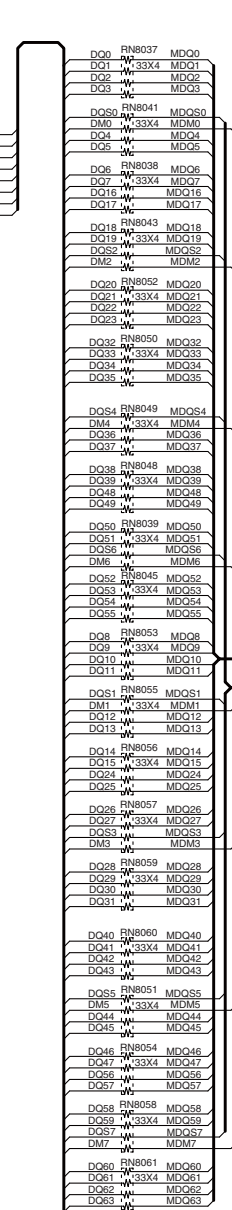
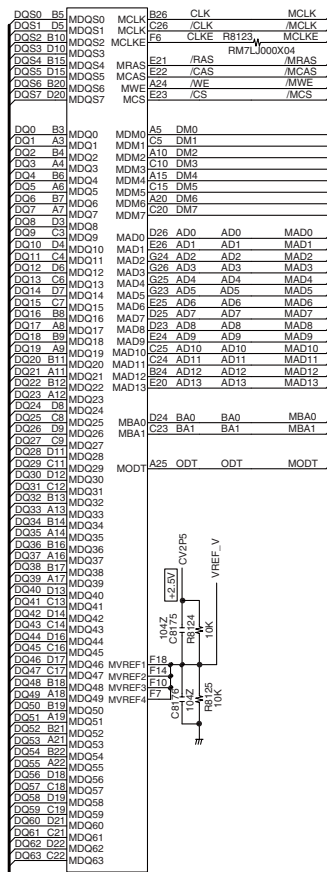
1

2

3

4

5



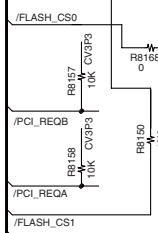
<Note>
SD-x:XY is short for Schematic Diagram-x and
each socket's location, X=A to H, Y=1 to 5.

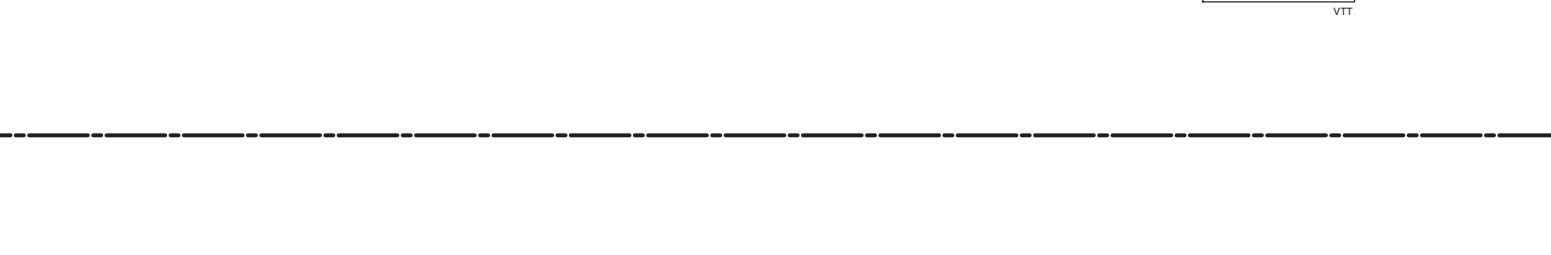
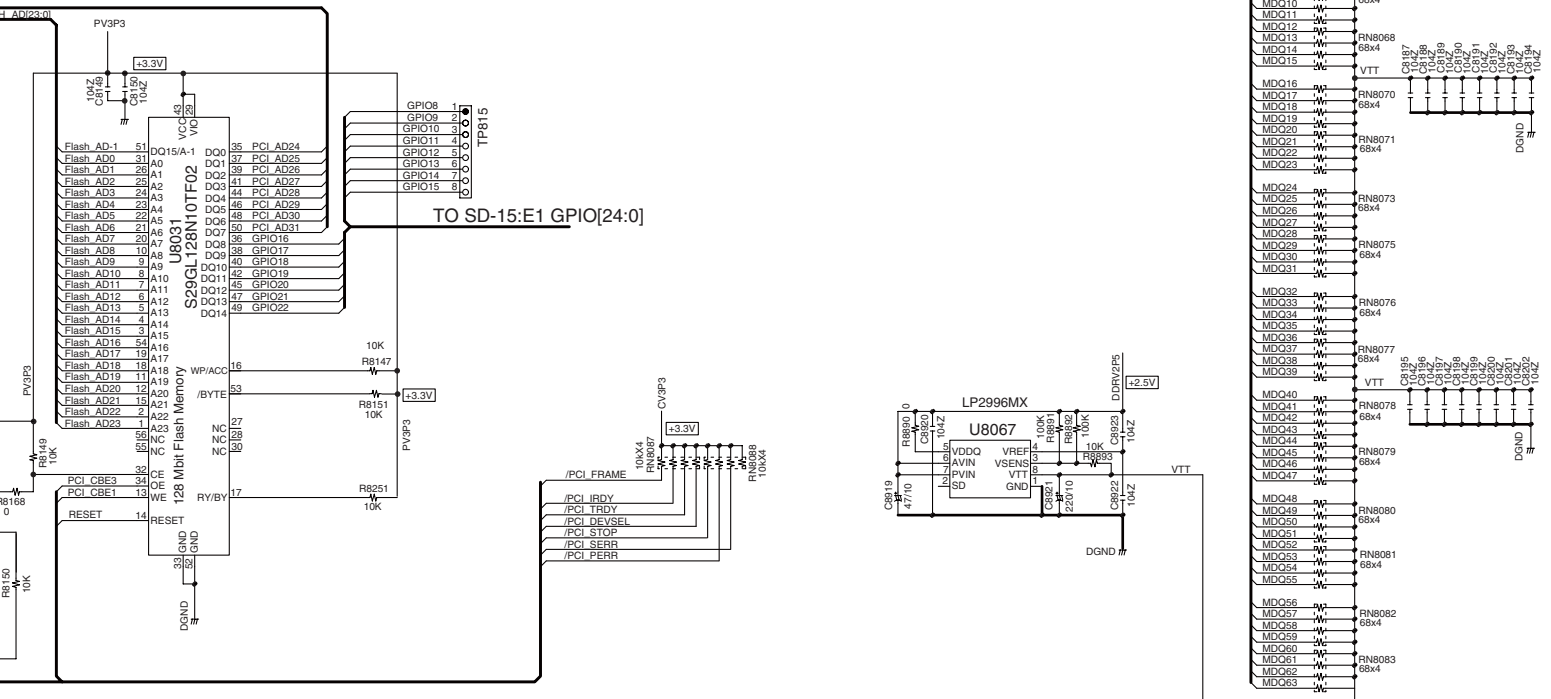
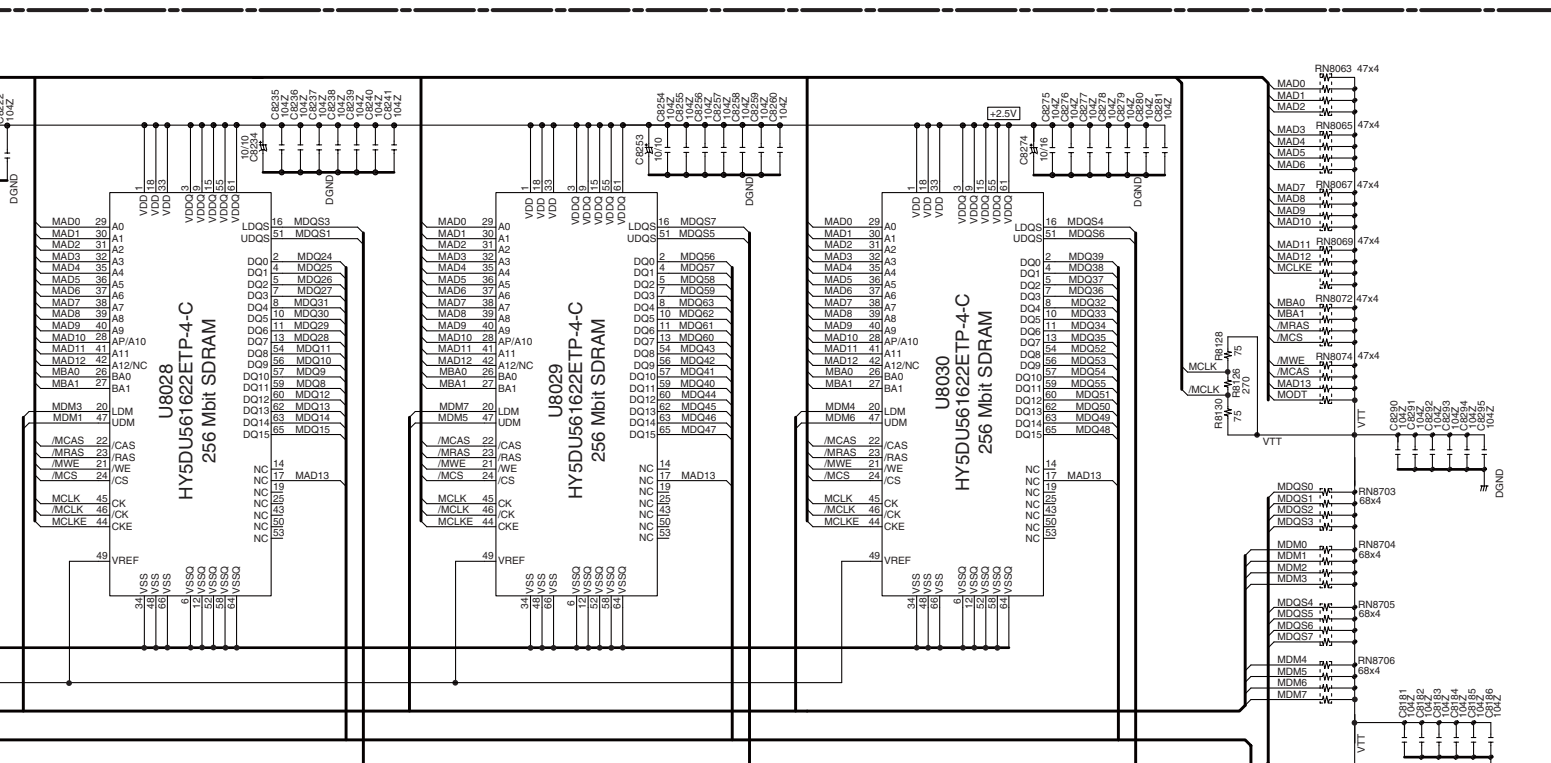
NOTE

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

TO SD-15:E2 PCI AD[0:23]

TO SD-15:D2 PCI_CBE[3:0]





A

B

C

D

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

1

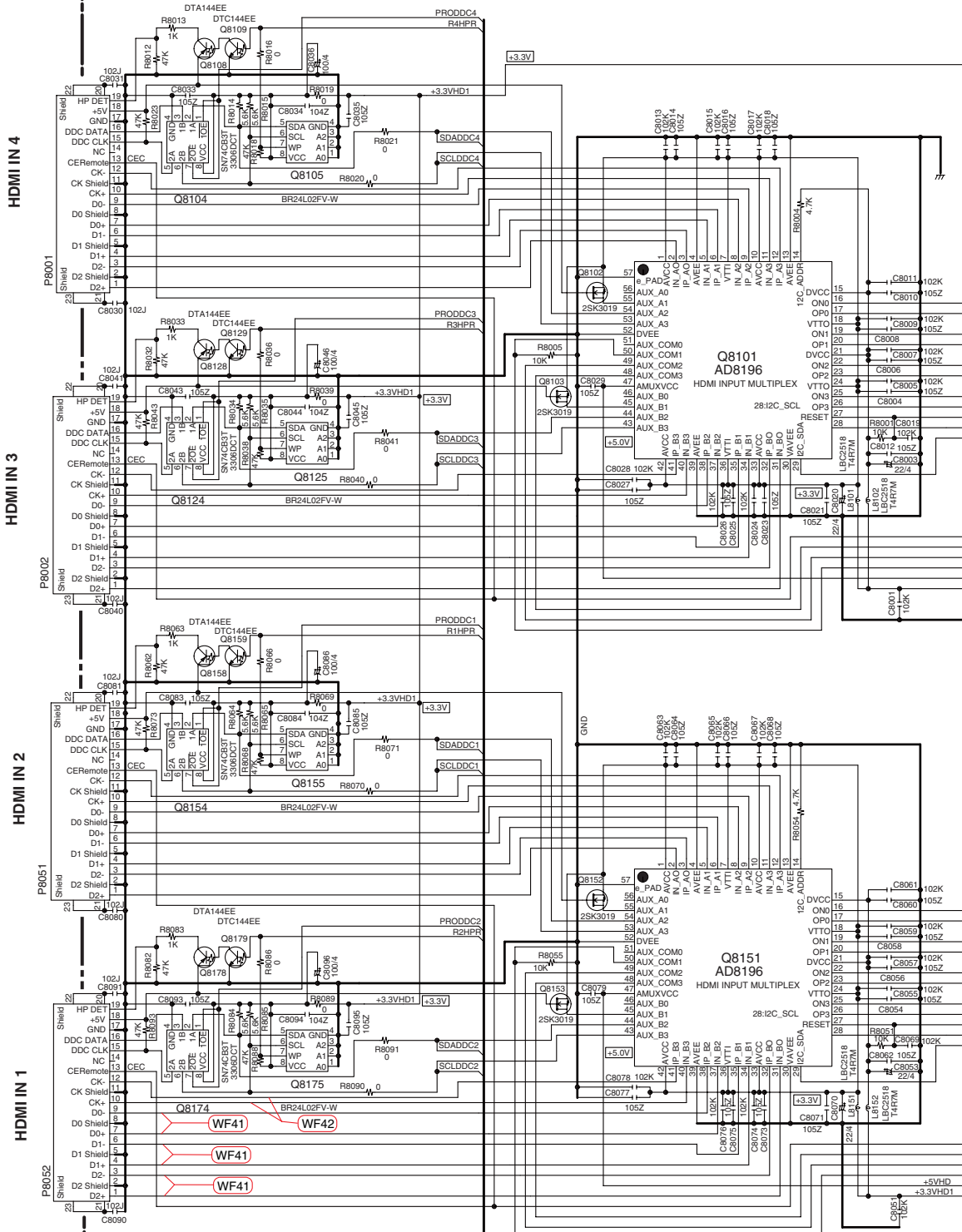
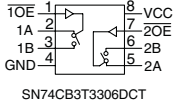
2

3

4

5

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

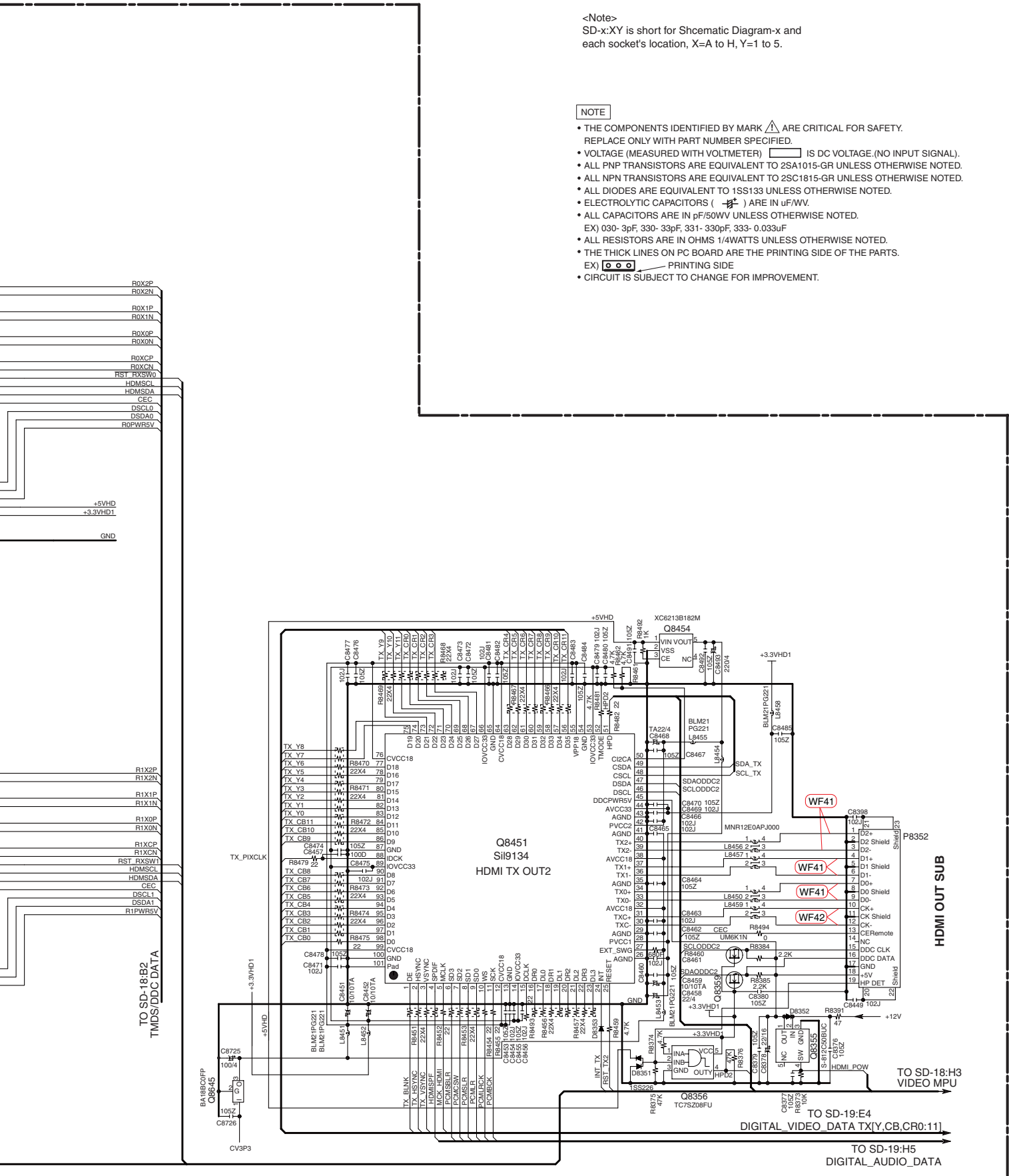


<Note>
Refer to SCHEMATIC DIAGRAM-29 (SD-29)
for HDMI signal waveforms.

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

NOTE

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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.



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

NAHDM-9114(4/5)

U42 HDMI PC BOARD

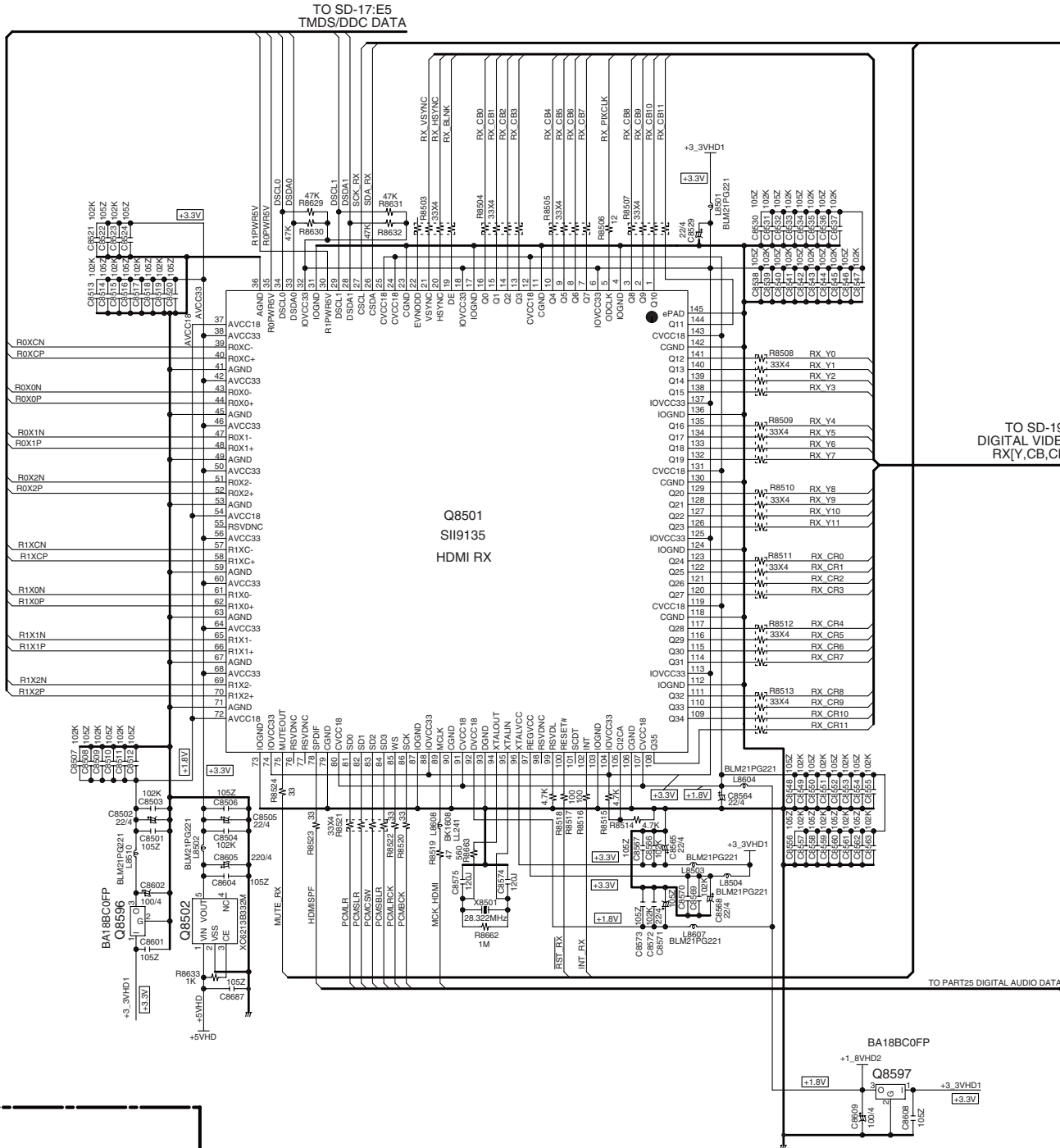
1

2

3

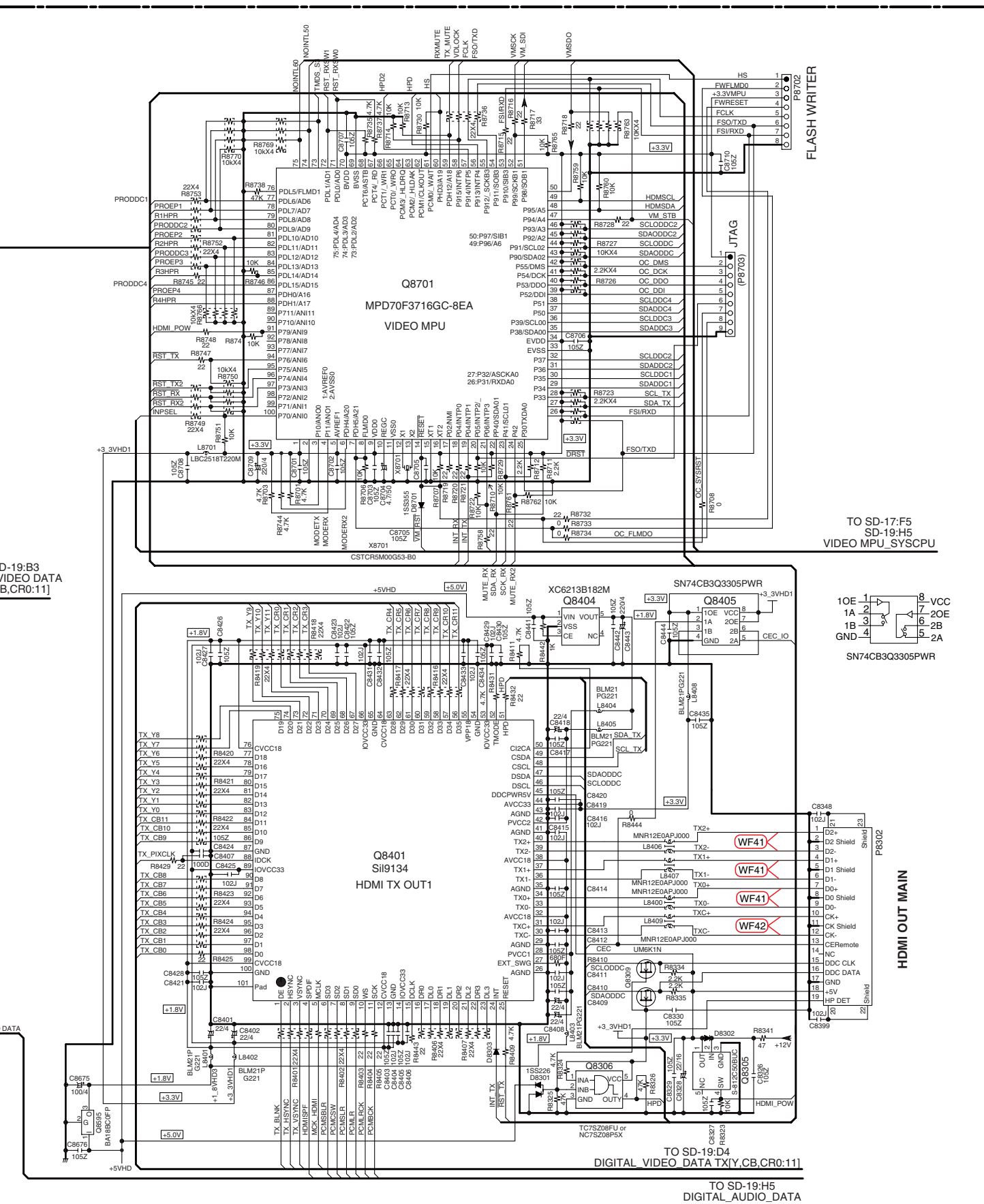
4

5



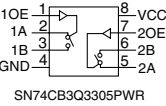
<Note>
Refer to SCHEMATIC DIAGRAM-29 (SD-29)
for HDMI signal waveforms.

<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

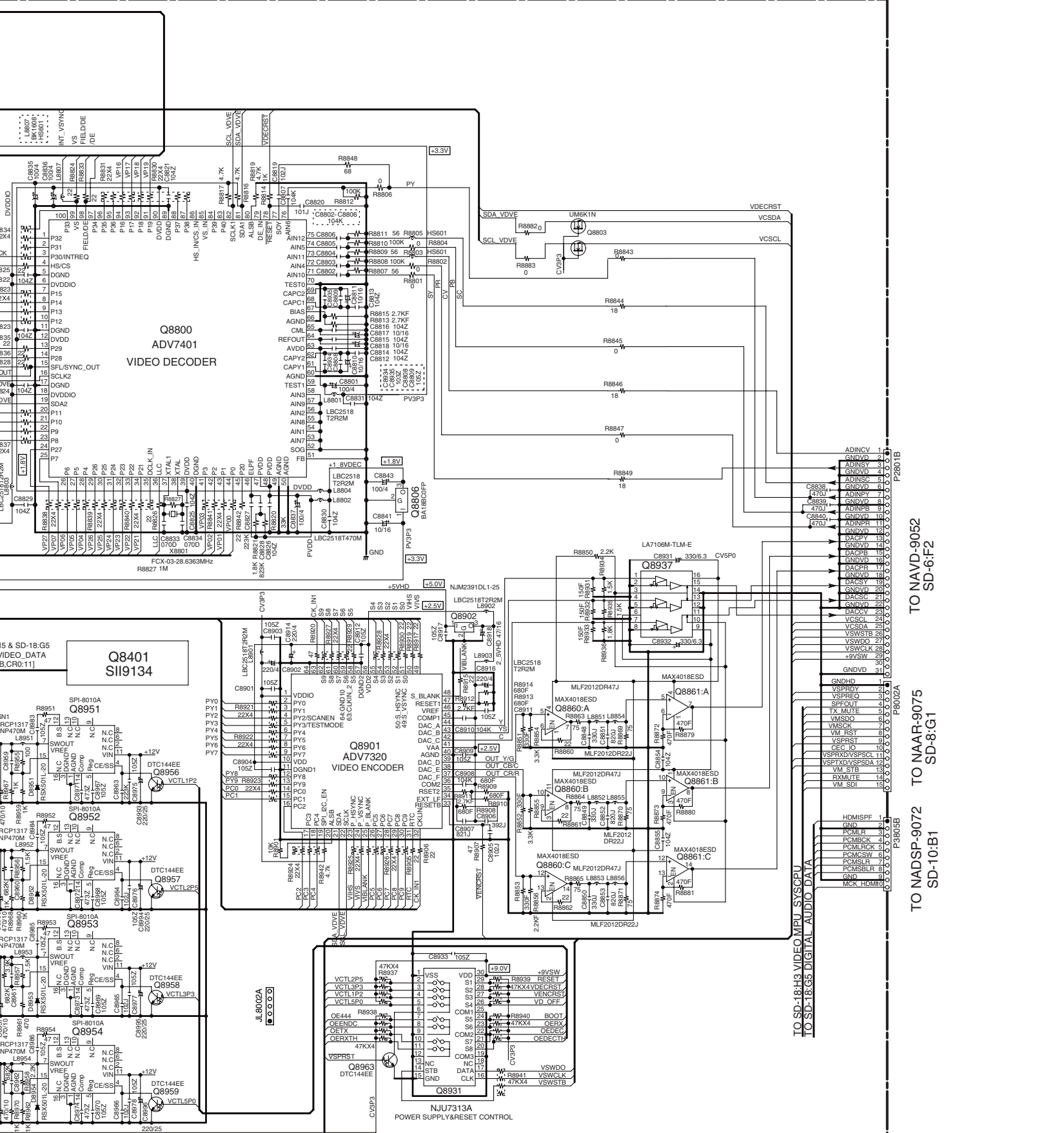


HDMI OUT MAIN

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

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

1
2
3
4
5

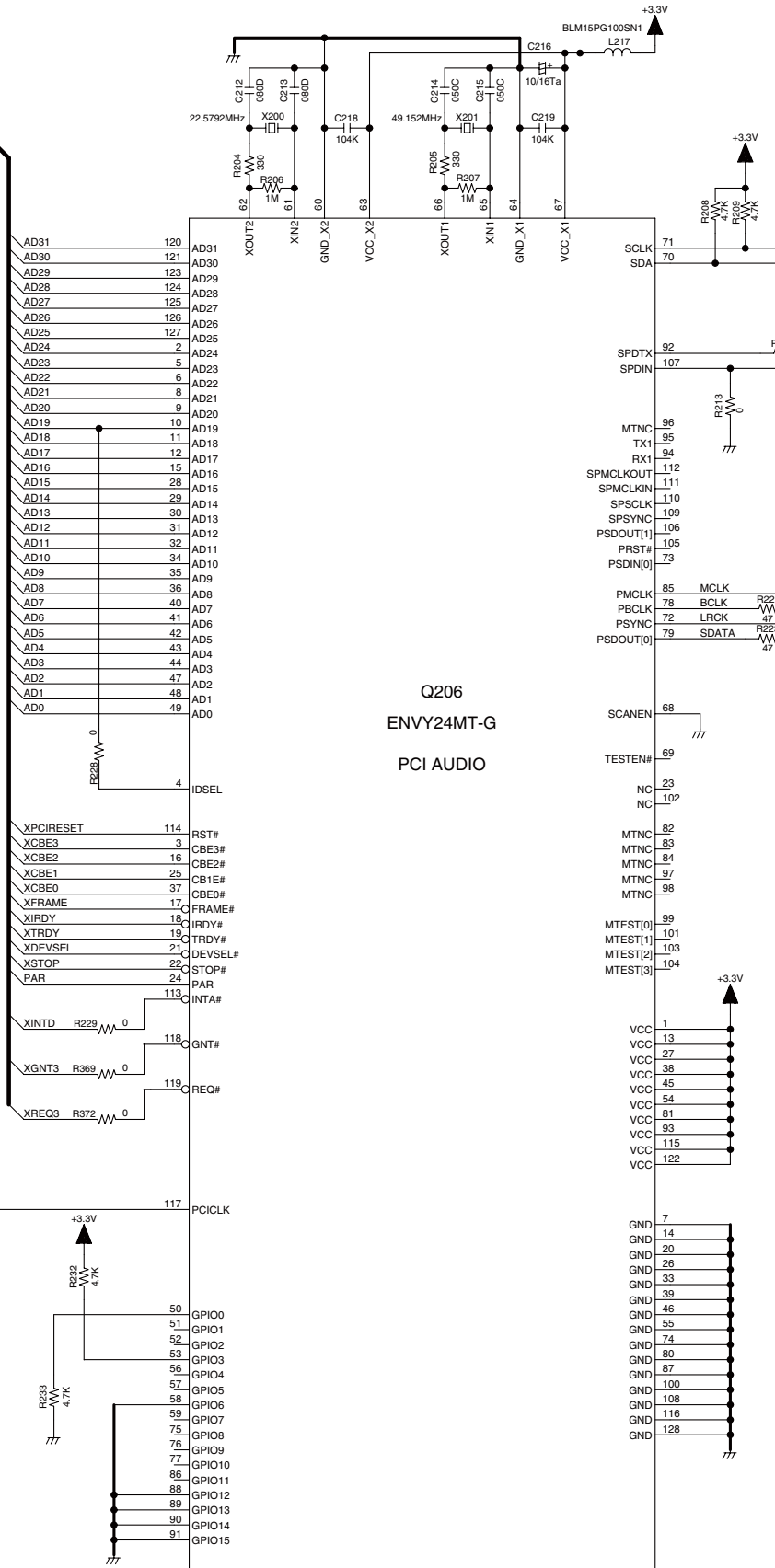
NALAN-9121(1/8)

U44 LAN PC BOARD

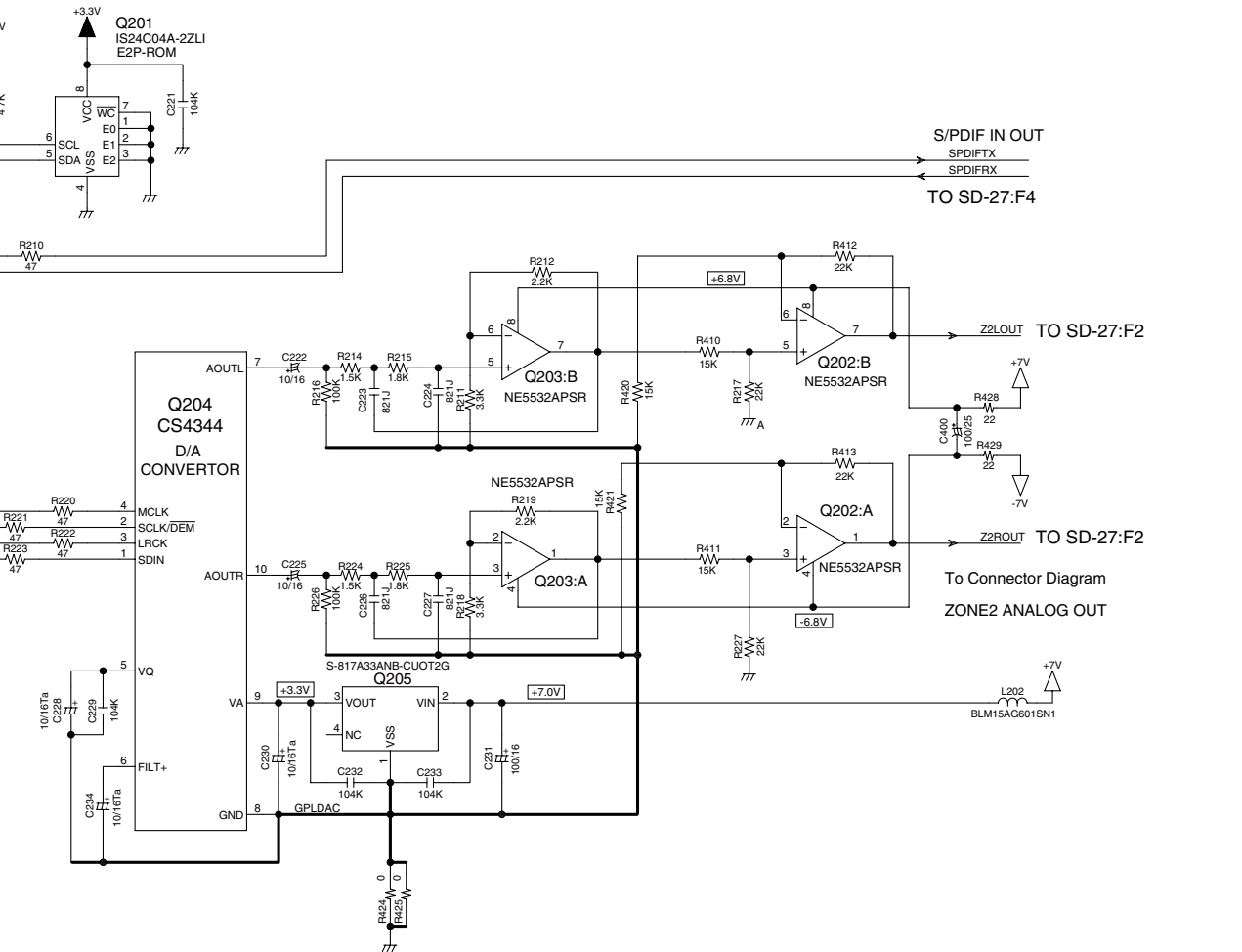
TO SD-21:A1
PCI BUS
PCICLK3
TO SD-27:E1

IDSEL=AD19
DEVICE No H'3

INT=INTD
REQ=3
GNT=3



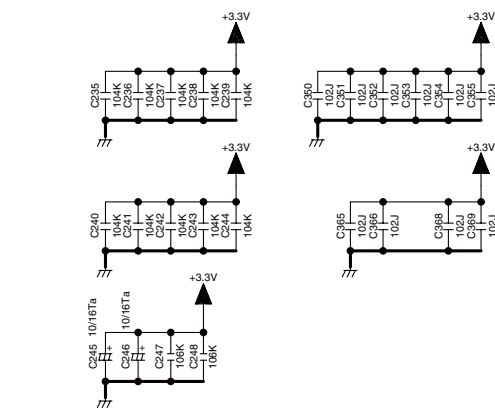
- 71 SCLK
- 70 SDA
- 92 SPDTX
- 107 SPDIN
- 96 MTNC
- 95 TX1
- 94 RX1
- 112 SPMCLKOUT
- 111 SPMCLKIN
- 110 SPSCCLK
- 109 SPSYNC
- 106 PSDOUT[1]
- 105 PRST#
- 73 PSDIN[0]
- 85 MCLK
- 78 BCLK
- 47 LCK
- 72 LCK
- 79 SDA
- 68 SCANEN
- 69 TESTEN#
- 23 NC
- 102 NC
- 82 MTNC
- 83 CBEB3#
- 84 MTNC
- 97 MTNC
- 98 MTNC
- 99 MTEST[0]
- 101 MTEST[1]
- 103 MTEST[2]
- 104 MTEST[3]
- 1 VCC
- 13 VCC
- 27 VCC
- 38 VCC
- 45 VCC
- 54 VCC
- 81 VCC
- 93 VCC
- 115 VCC
- 122 VCC
- 7 GND
- 14 GND
- 20 GND
- 26 GND
- 33 GND
- 39 GND
- 46 GND
- 55 GND
- 74 GND
- 80 GND
- 87 GND
- 100 GND
- 108 GND
- 116 GND
- 128 GND



<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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- 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

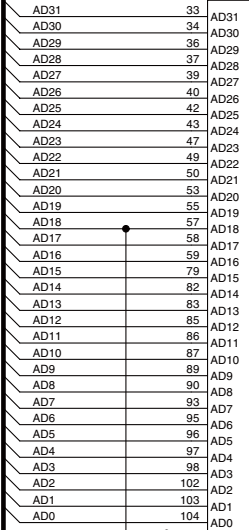
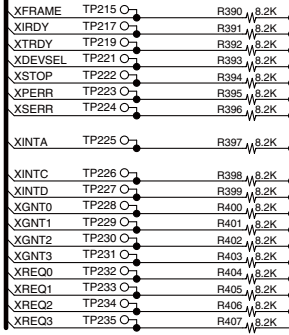
SCHEMATIC DIAGRAMS-21(SD-21) NETWORK SECTION-2

NALAN-9121(2/8)

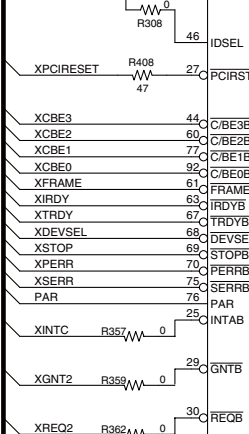
U44 LAN PC BOARD

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

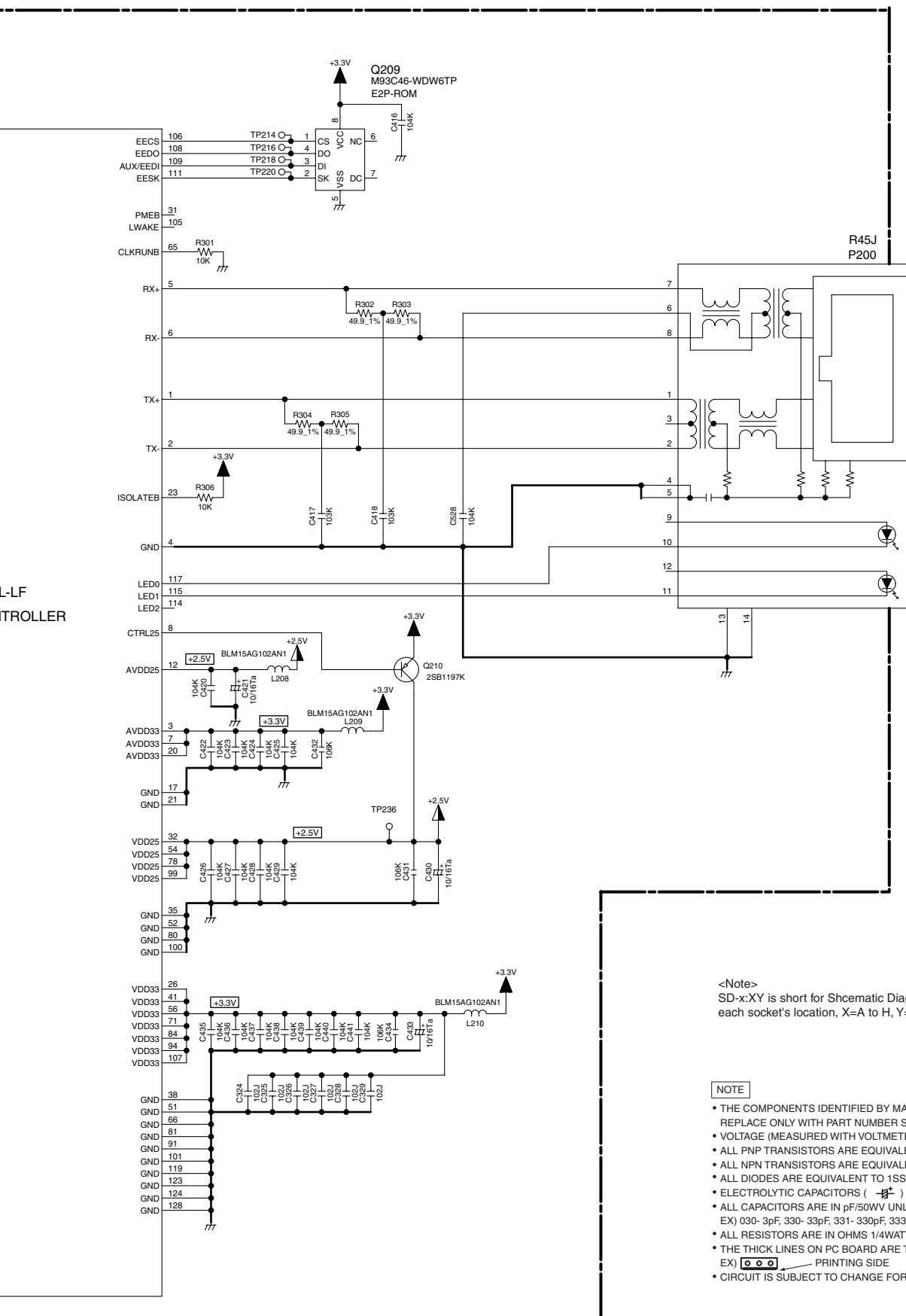
1

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

A

B

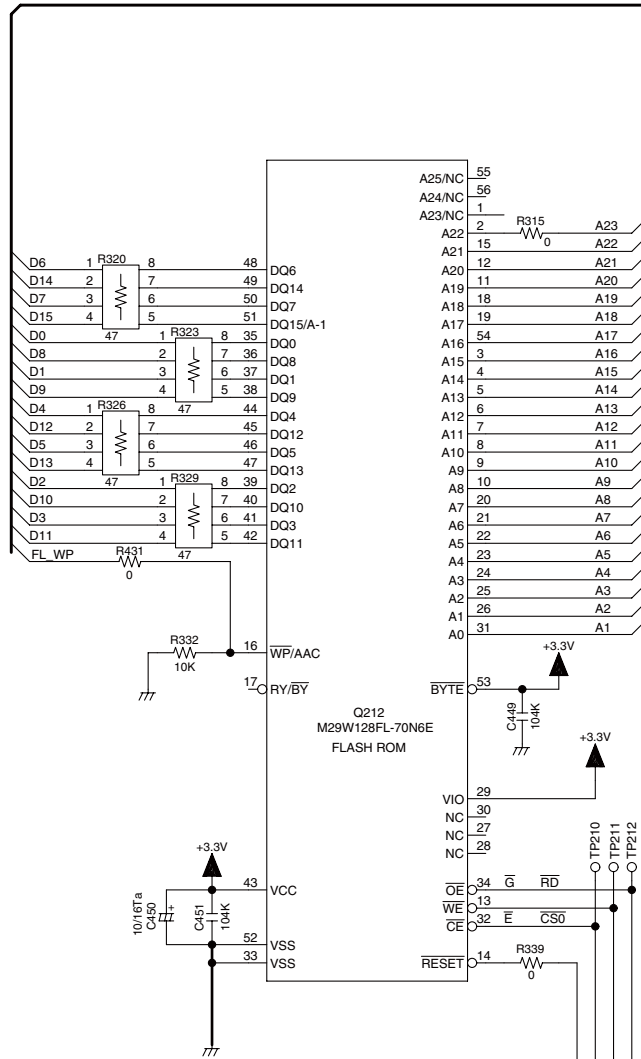
C

D

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

NALAN-9121(3/8)

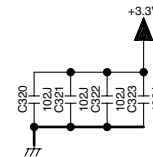
U44 LAN PC BOARD



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

NOTE

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- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS ($\text{---} \frac{\mu}{\text{---}} \text{---}$) ARE IN $\mu\text{F}/\text{WV}$.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
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- 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.



1

2

3

4

5

E

F

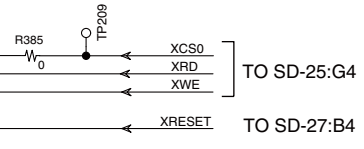
G

H

DATA BUS [0:63]

ADDRESS BUS [0:23]

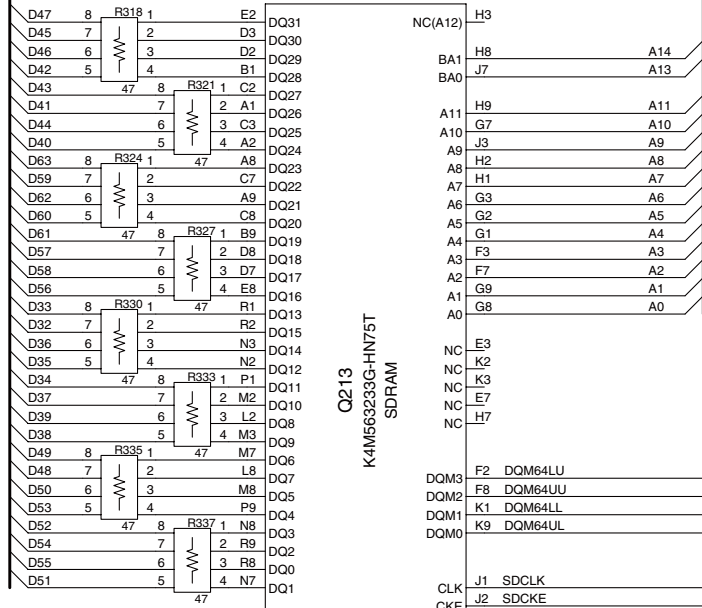
TO SD-25:B1



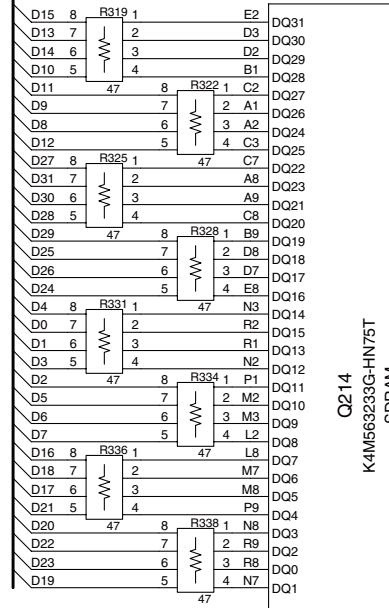
SCHEMATIC DIAGRAMS-23(SD-23)
NETWORK SECTION-4

NALAN-9121(4/8)

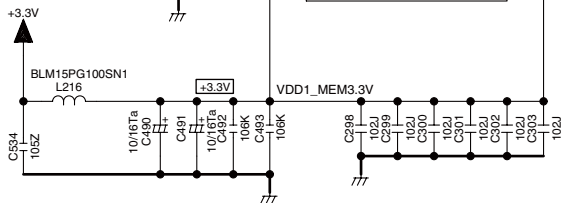
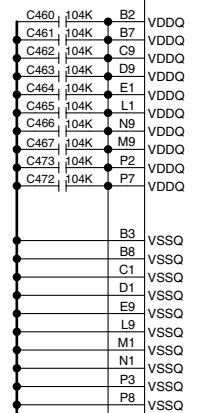
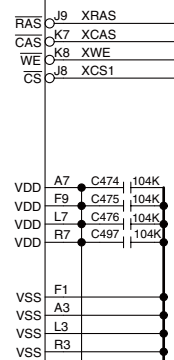
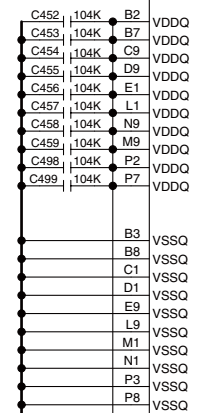
U44 LAN PC BOARD



Q213
K4M563233G-HN75T
SDRAM



Q214
K4M563233G-HN75T
SDRAM



1

2

3

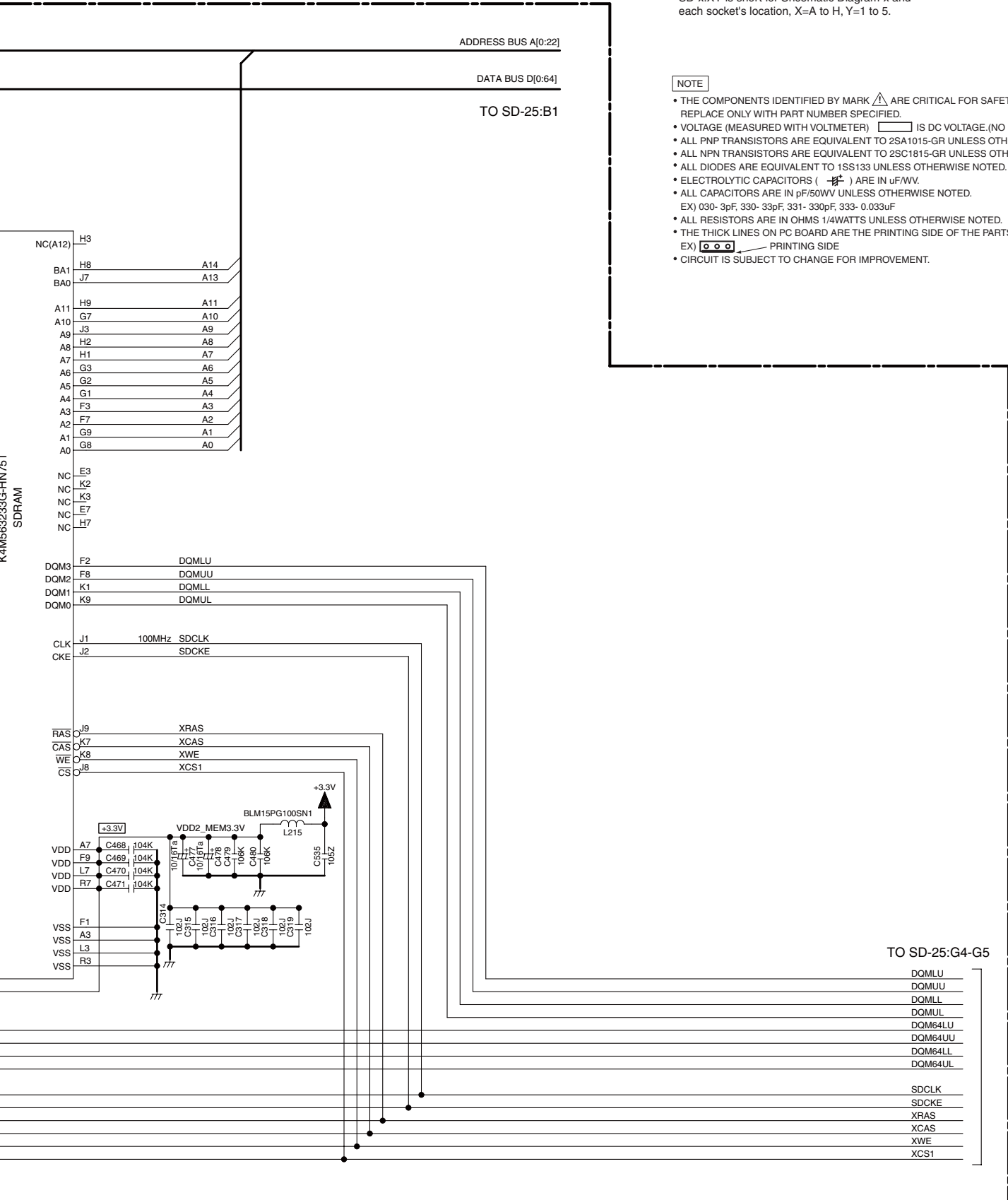
4

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

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- 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.



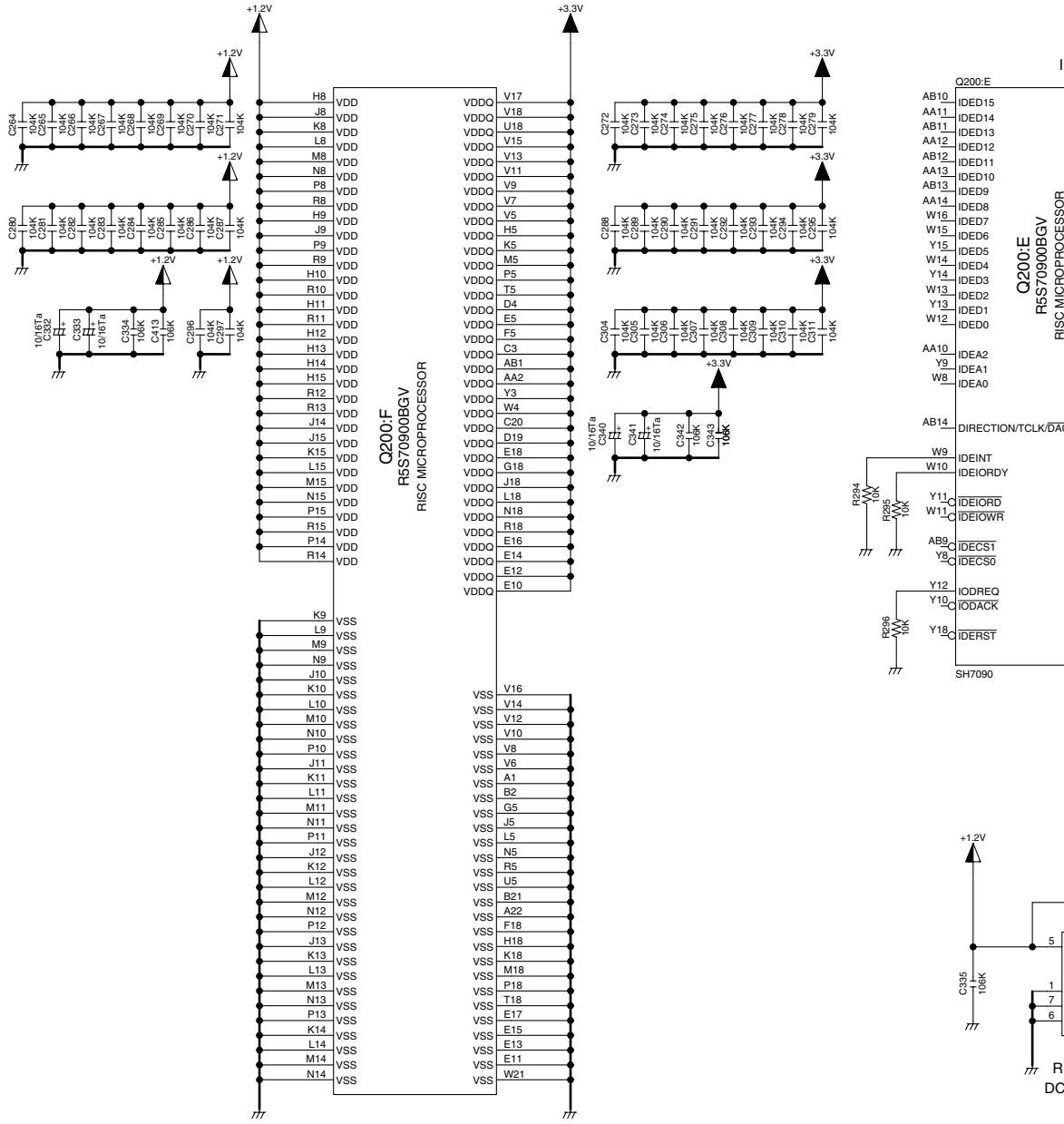
K4MB63233G-HN/51 SDRAM

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

TO SD-27:F4 SUTATUS0
XBOOTMODE0



1

2

3

4

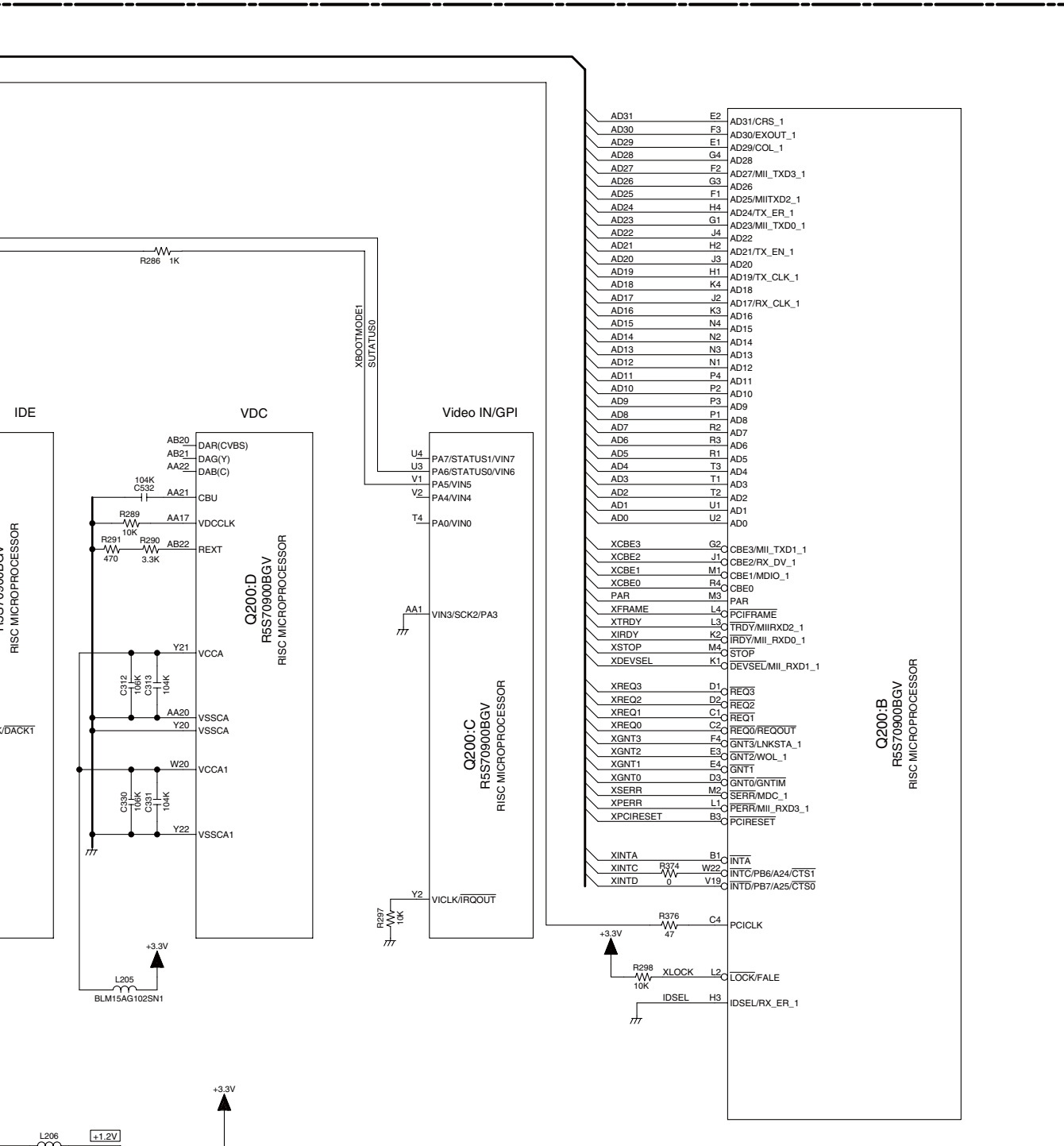
5

E

F

G

H



NOTE

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

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

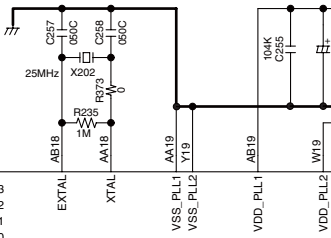
NALAN-9121(6/8) U44 LAN PC BOARD

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

ADDRESS BUS [0:23]

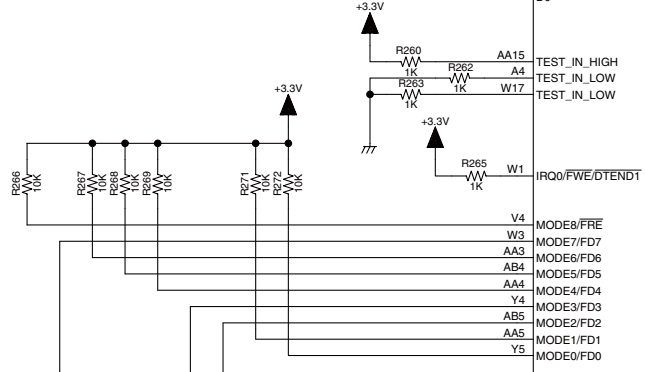
DATA BUS [0:63]

- | | | |
|-----|-----|----------------|
| 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 |

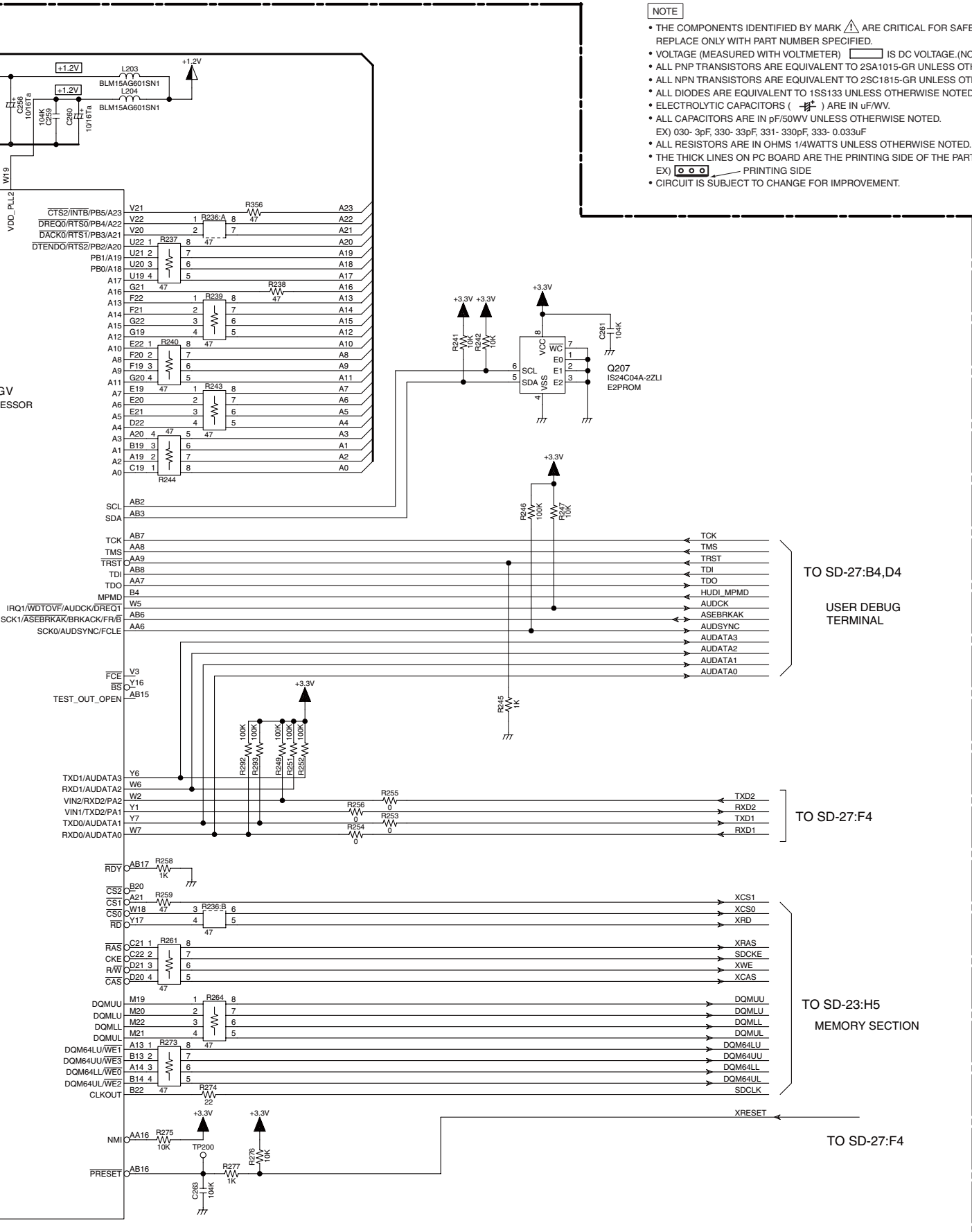


Q200:A
R5S70900BGV
RISC MICROPROCESSOR

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.



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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 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

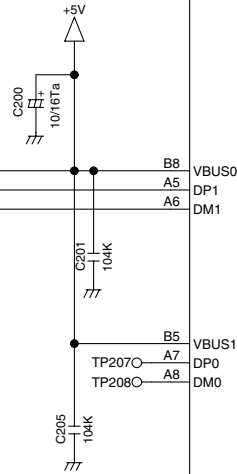
1

NALAN-9121(7/8)

U44 LAN PC BOARD

← VBUS1
 ← DP1
 ← DM1
 ← USB1 GND

TO SD-27:F3



2

3

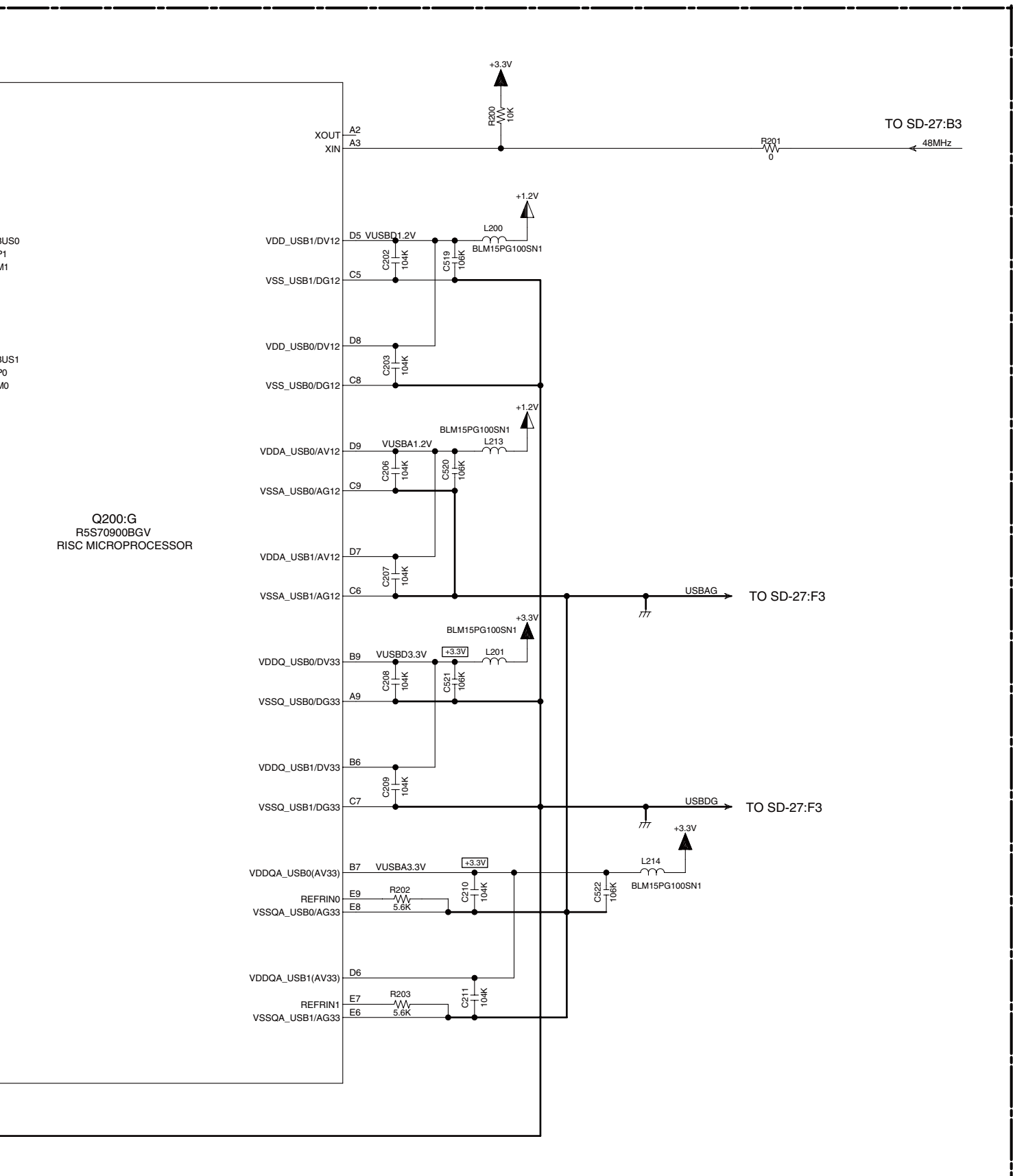
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<Note>
 SD-x:XY is short for Schematic Diagram-x and
 each socket's location, X=A to H, Y=1 to 5.

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

5

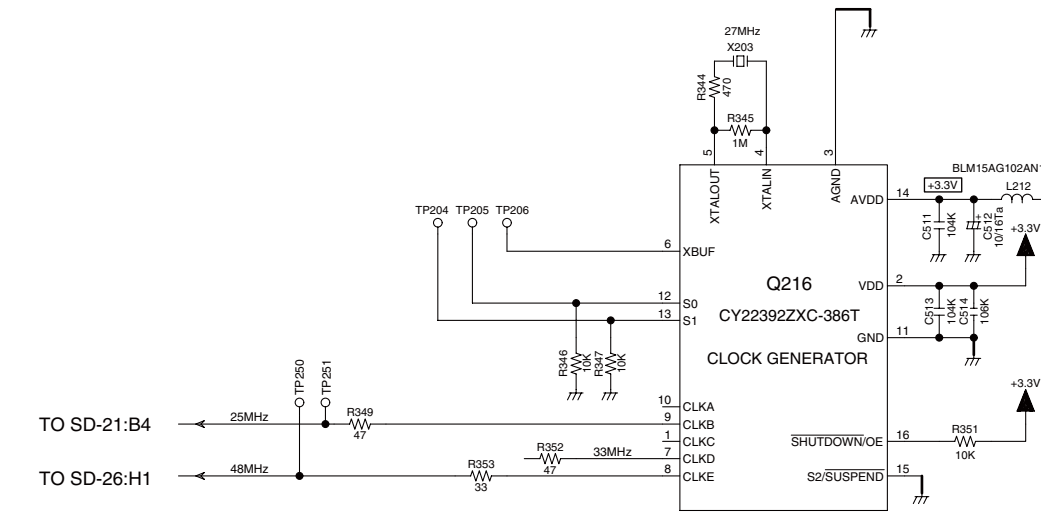
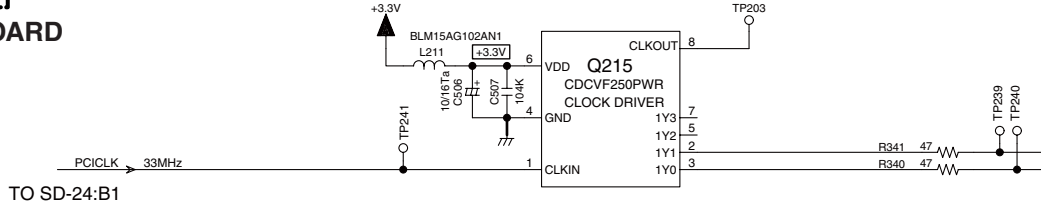


A B C D

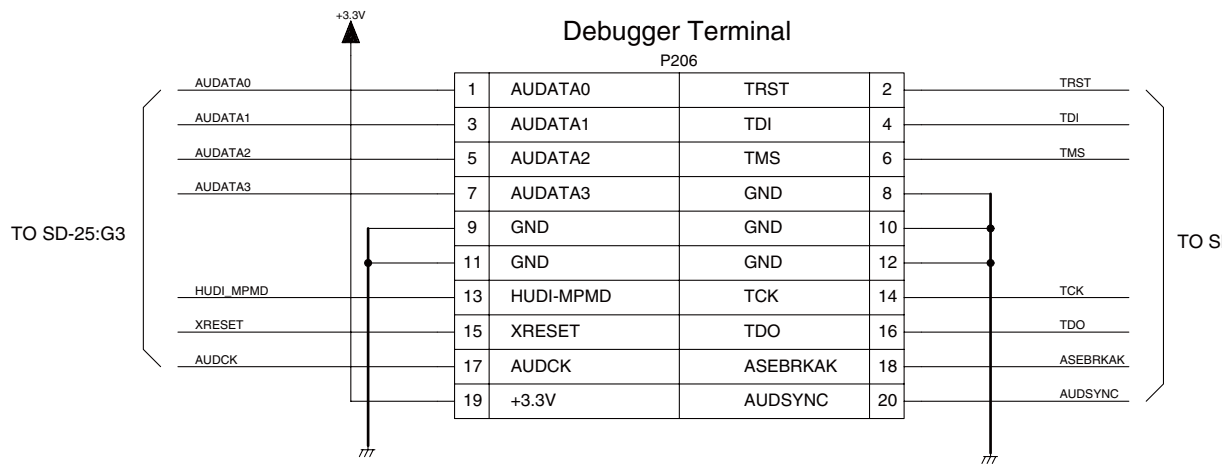
SCHEMATIC DIAGRAMS-27(SD-27)
NETWORK SECTION-8

NALAN-9121(8/8)

U44 LAN PC BOARD



Debugger Terminal



1

2

3

4

5

TO SD-24:B1

TO SD-21:B4

TO SD-26:H1

TO SD-25:G3

TO SD

E

F

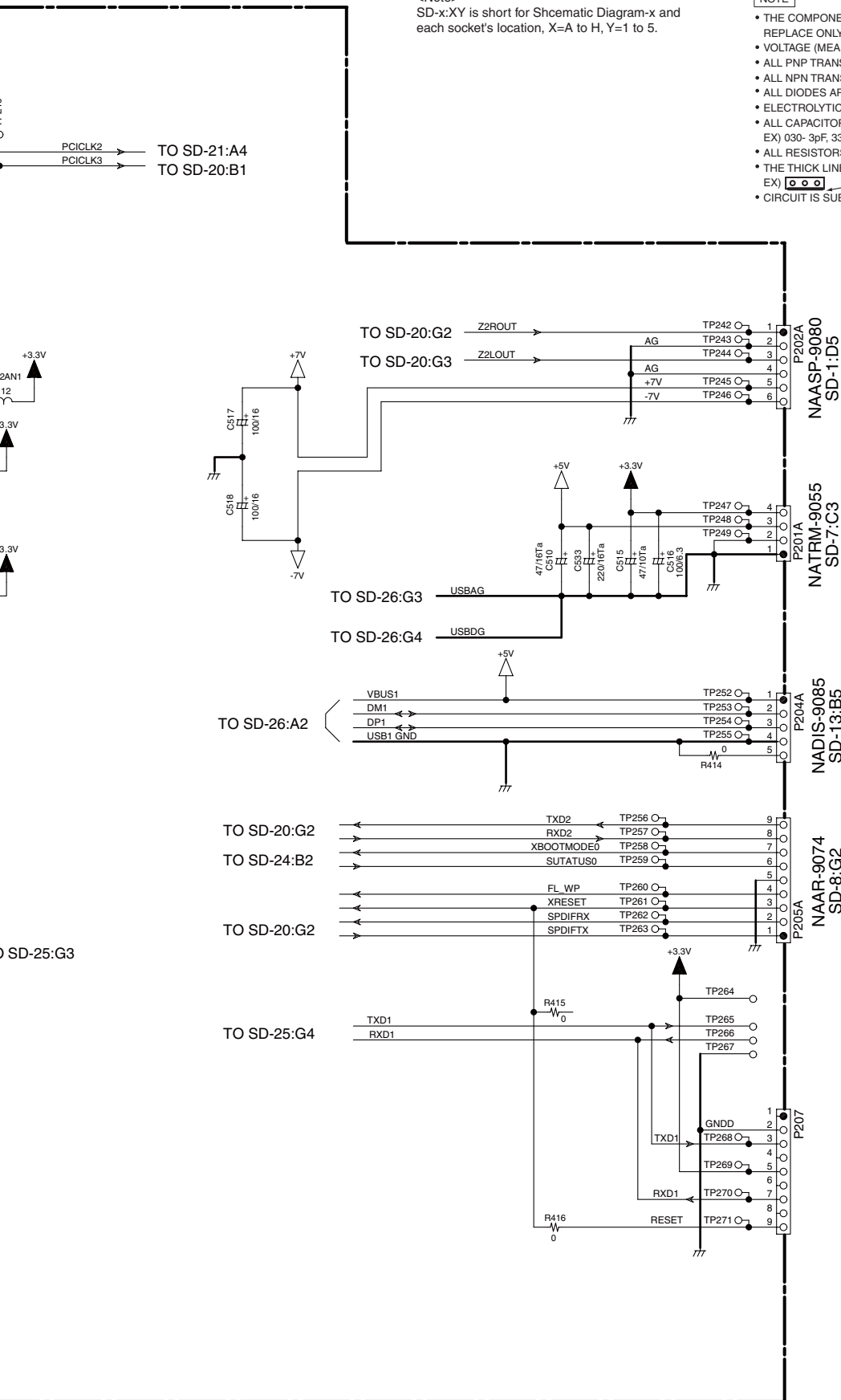
G

H

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

NOTE

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- 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 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-28(SD-28)
HD RADIO SECTION

1

2

3

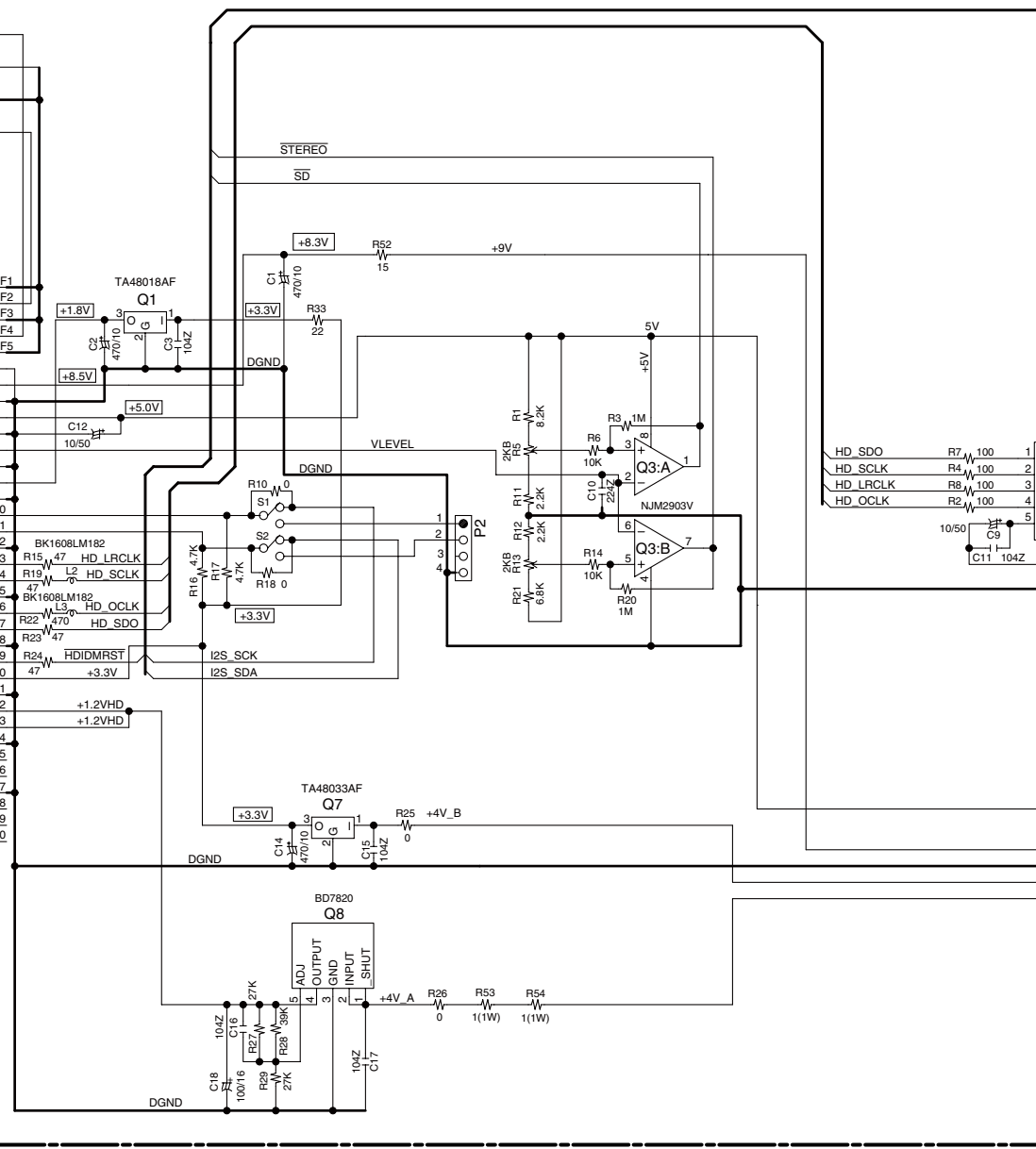
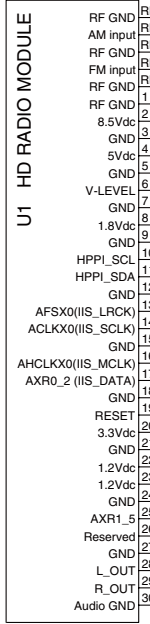
4

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

