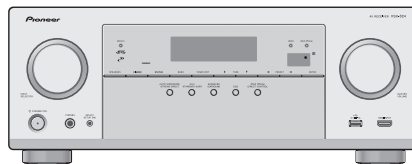


Pioneer

Service Manual



VSX-824-K

ORDER NO.
RRV4526

AV Receiver

VSX-824-K

VSX-1024-K

VSX-1029-K

VSX-44

VSA-824

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-824-K	CUXEVSM	AC 120 V	
VSX-1024-K	CUXESM	AC 120 V	
VSX-1029-K	CUXE	AC 120 V	
VSX-44	CUXE	AC 120 V	
VSA-824	JXEV	AC 100 V	

THIS SERVICE MANUAL SHOULD BE USED TOGETHER WITH THE FOLLOWING MANUAL(S).

Model	Order No.	Remarks
VSX-824-K, VSX-1024-K, VSX-1029-K, VSX-44	RRV4520	BLOCK DIAGRAM, EXPLODED VIEWS AND PARTS LIST etc.



PIONEER CORPORATION 1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

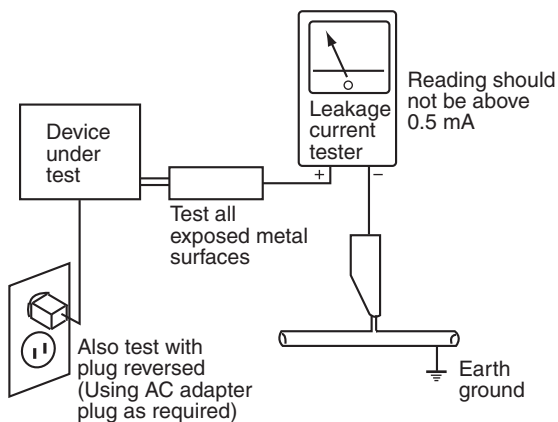
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120 V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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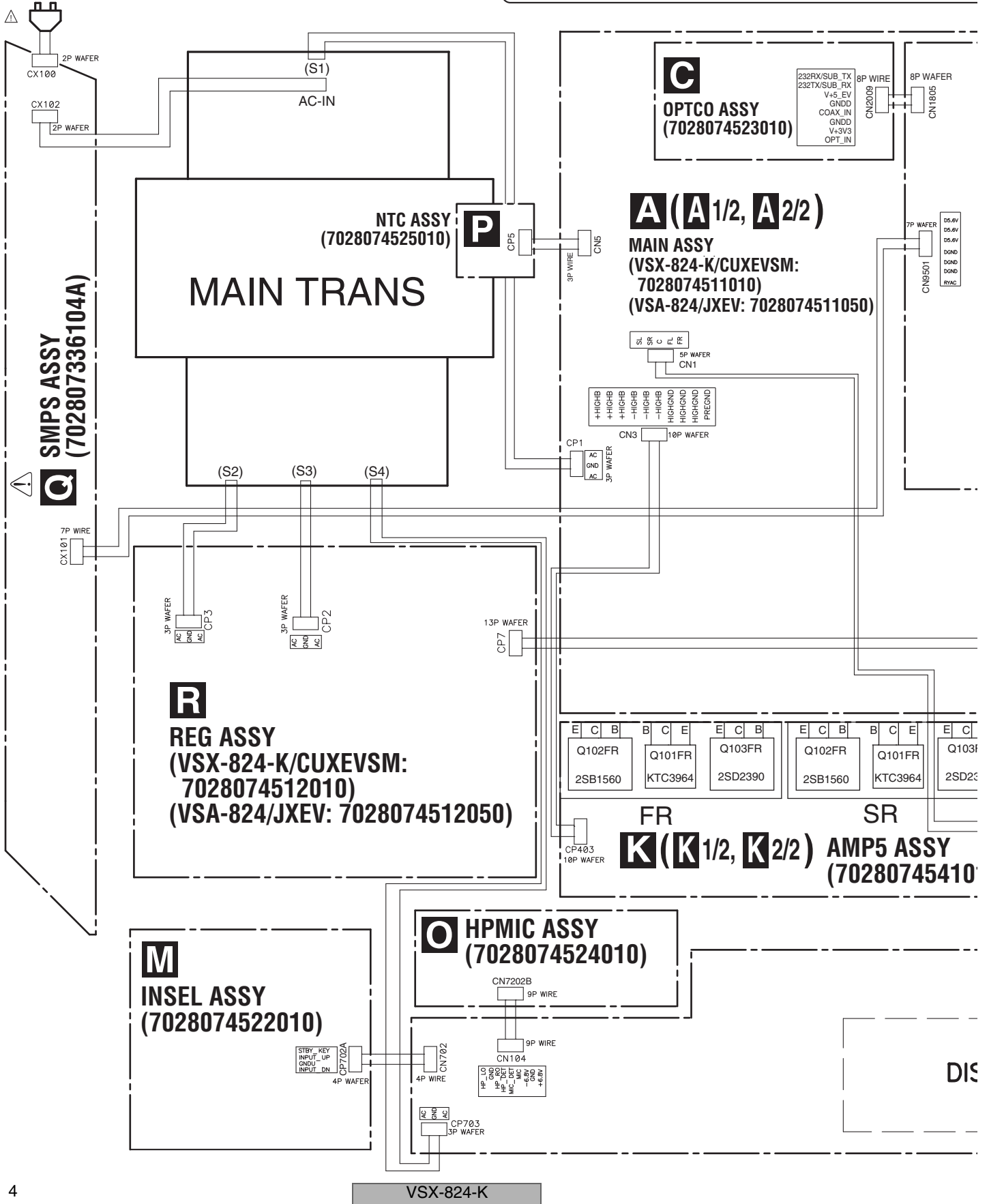
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10. SCHEMATIC DIAGRAM

10.1 OVERALL WIRING DIAGRAM (for VSX-824-K)

A
B
C
D
E
F

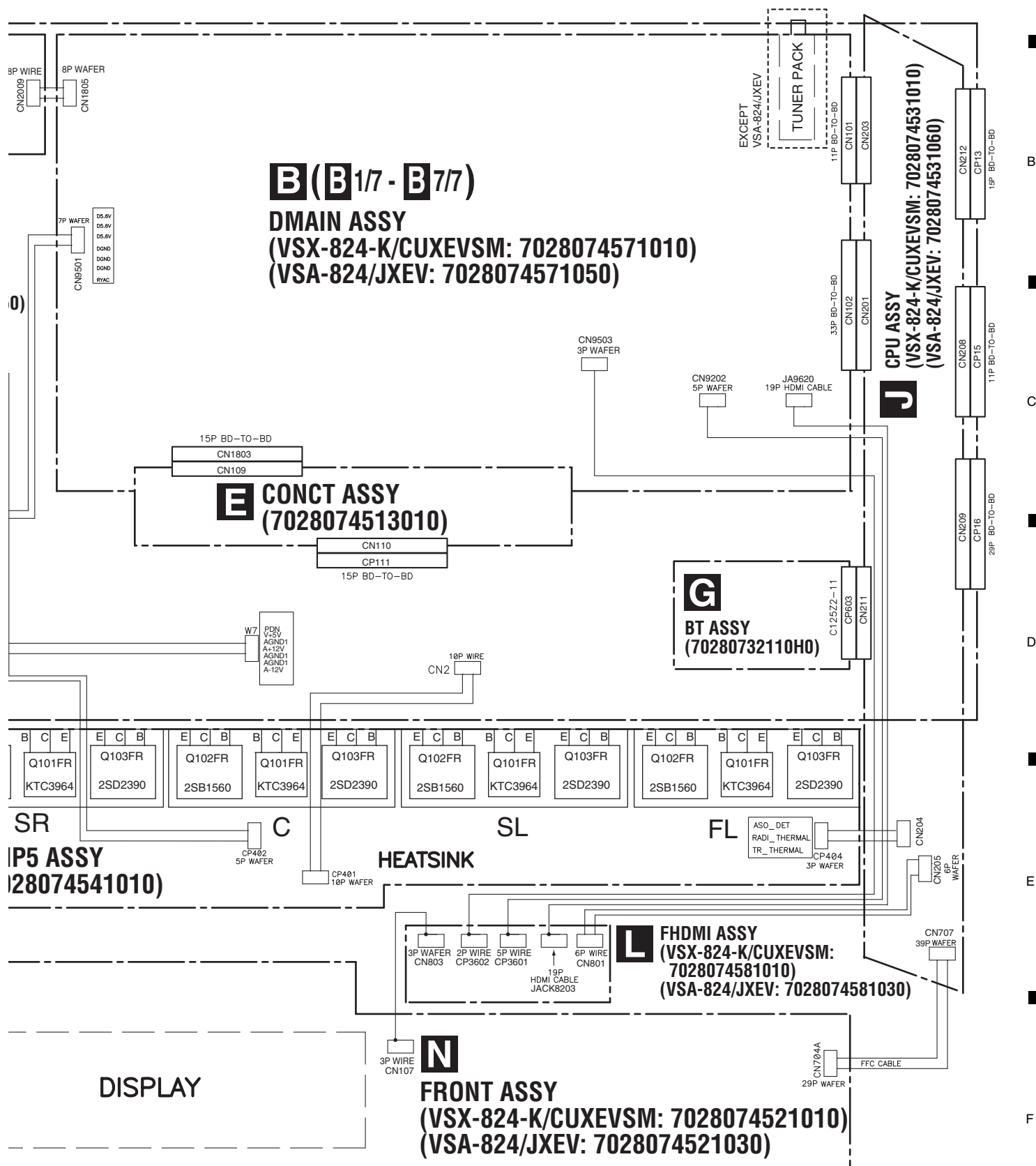
AC CORD
or INLET



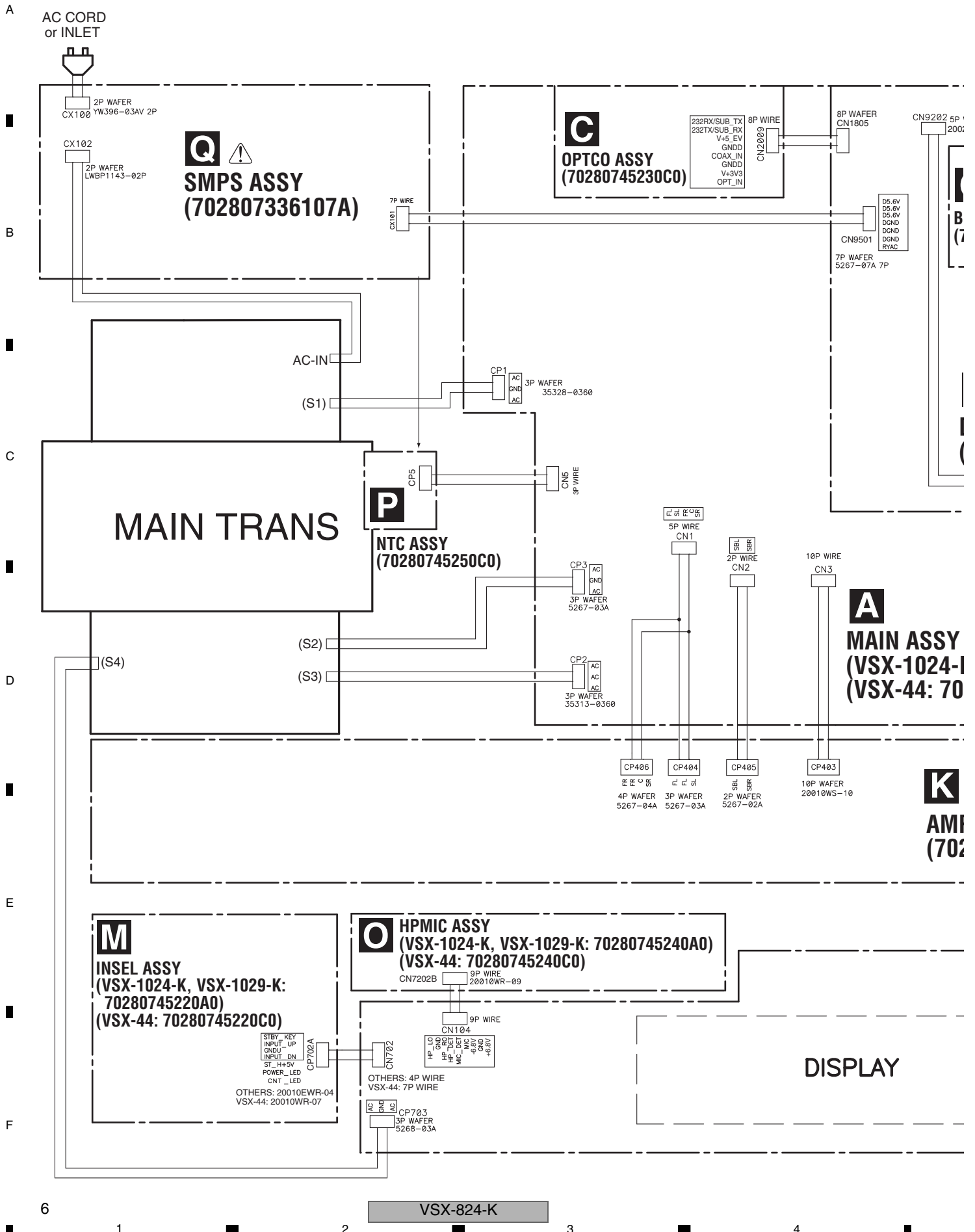
VSX-824-K

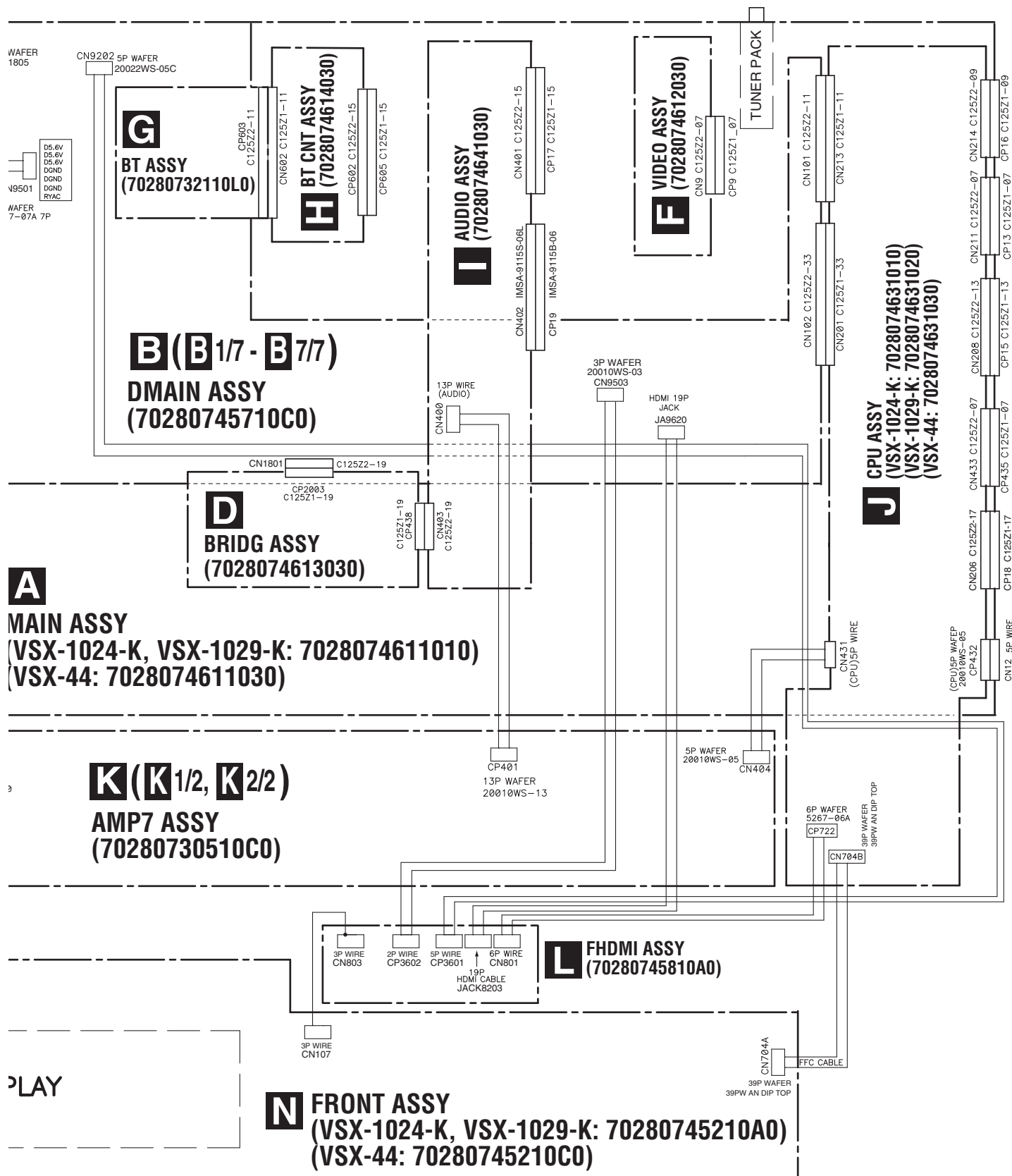
D VIEWS and PARTS LIST" or "PCB PARTS LIST".
importance of the safety factor of the part.
designation.

- 部品を発注する場合は、必ず「分解図と部品表」または「電気部品表」を参照してください。
- △印の部品は、安全上重要な部品です。
- 交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
- 印は電源の供給源を示しています。



10.2 OVERALL WIRING DIAGRAM (for VSX-1024-K, VSX-1029-K, VSX-44)





10.3 MAIN ASSY (1/2) (VSX-824-K)

- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center ch)
- (HPL) : Audio Signal Route (Headphone L ch)
- ◇ : Video Signal Route

SPEAKER TERMINAL
VSX-824/529 : ALL Large

NOTES

1. Resistor values are indicated in ohms unless otherwise specified
[k = 1,000 m = 1,000,000]

2. Capacitor values are indicated in microfarads unless otherwise specified.

3. [p = micro-microfarads]

: These resistor are to be segregated from printed wiring board or other accessible parts.

CAUTION

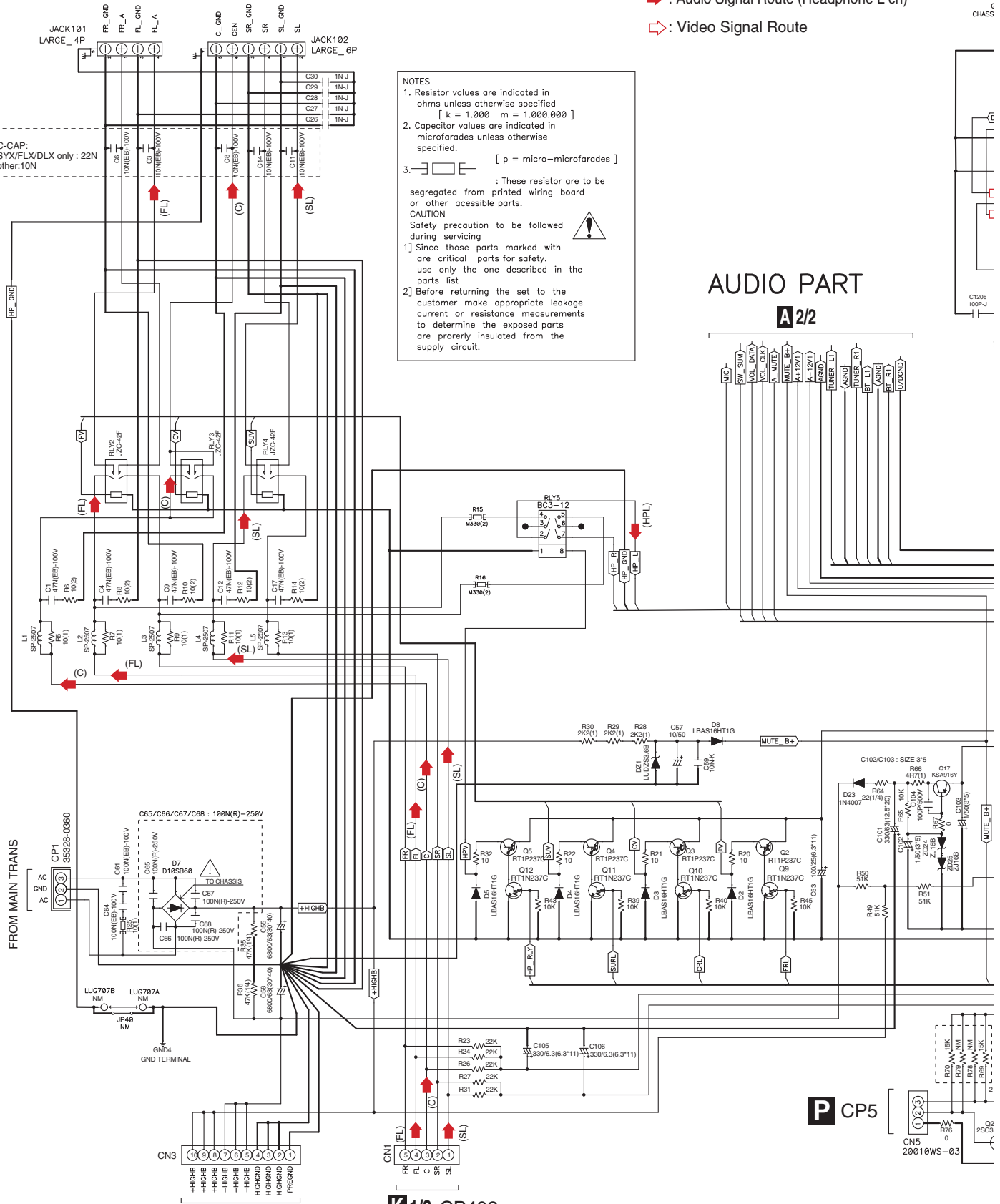
Safety precaution to be followed during servicing

1) Since those parts marked with are critical parts for safety, use only the one described in the parts list

2) Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

AUDIO PART

A 2/2



A 1/2

K 1/2 CP403

K 1/2 CP402

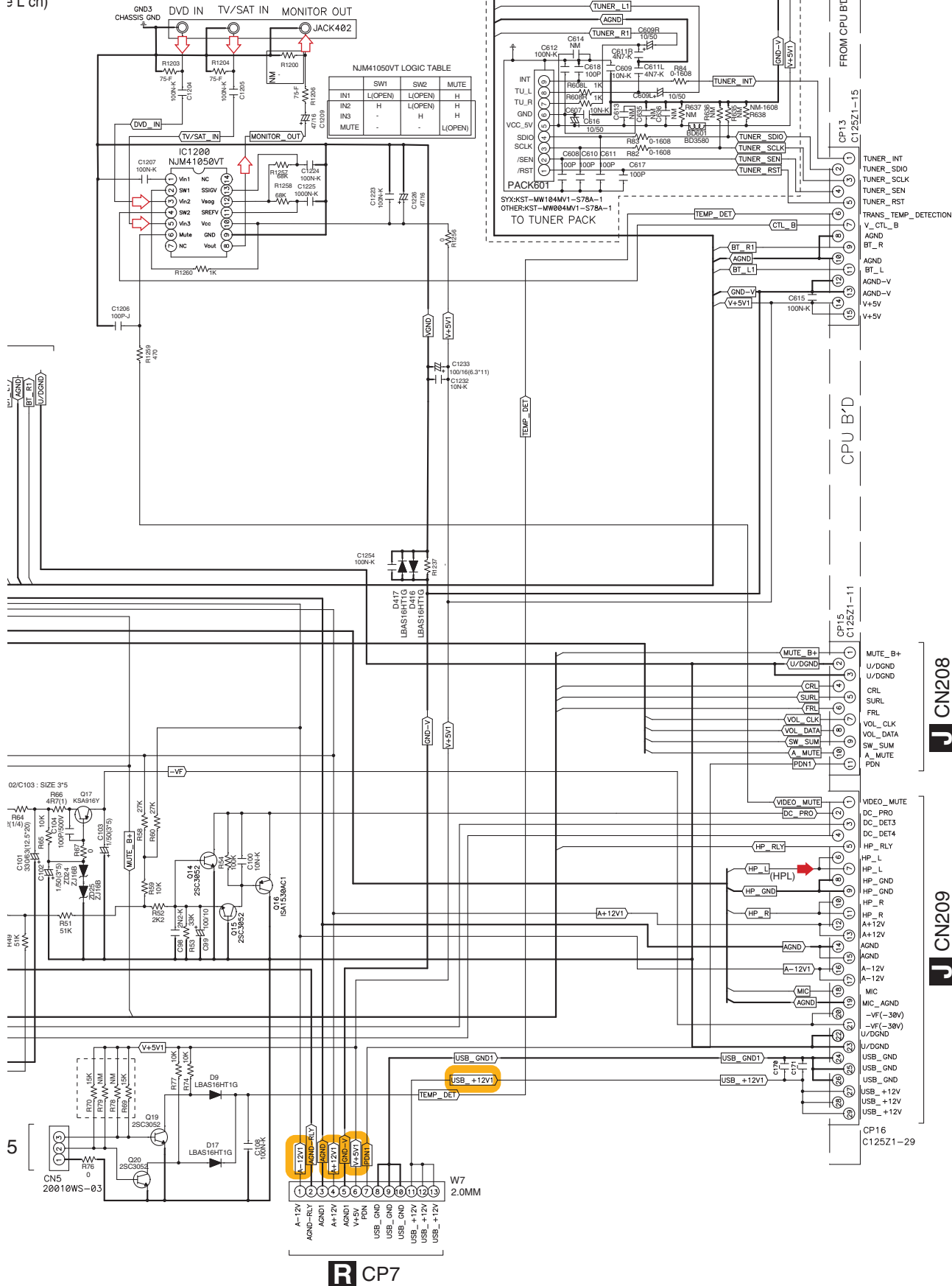
P CP5

VSX-824-K

A1/2 MAIN ASSY (7028074511010)

. ch)

3 L ch)



R CP7

VSX-824-K

A1/2

10.4 MAIN ASSY (2/2) (VSX-824-K)

A

B

C

D

E

F

A1/2

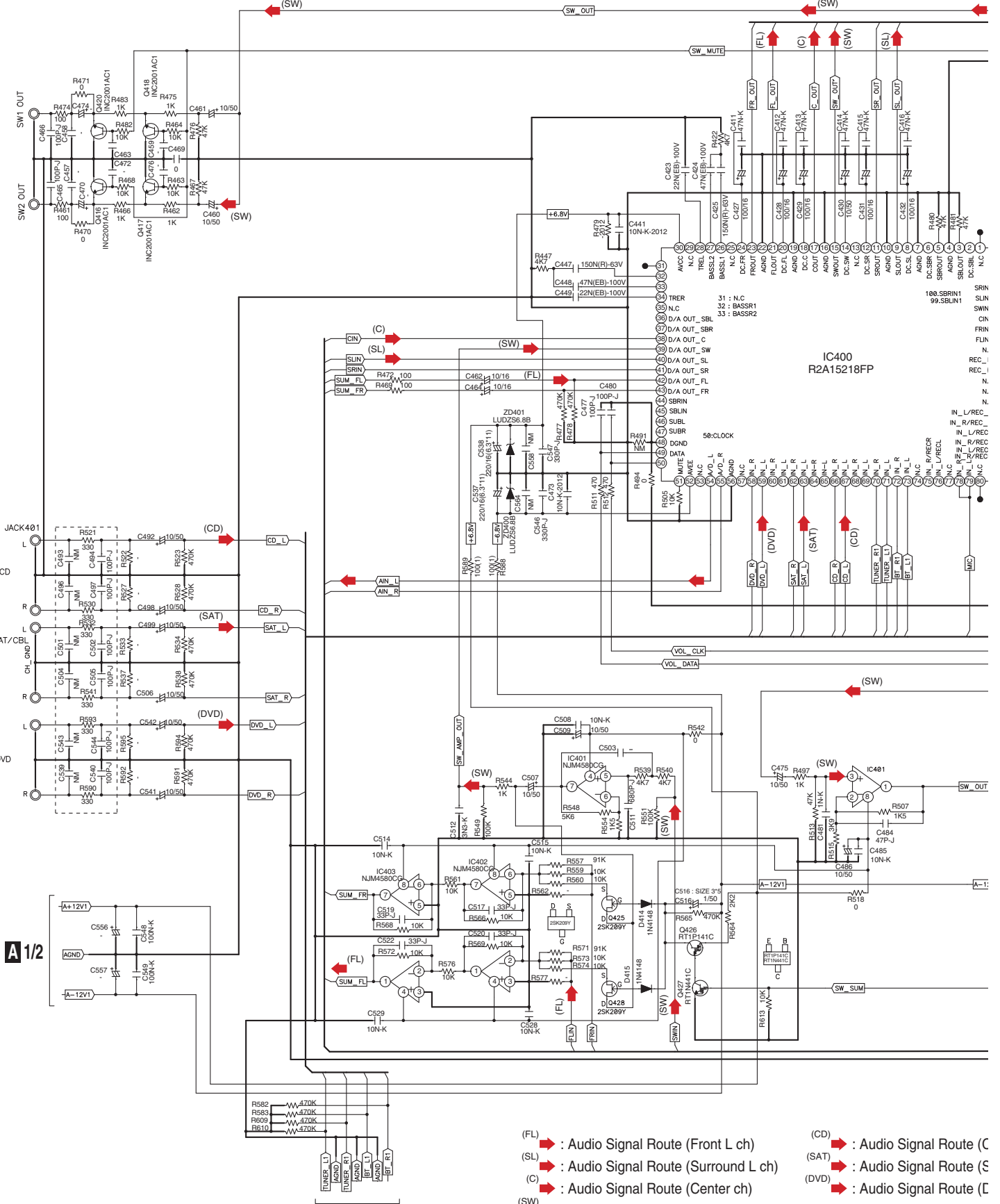
A2/2

10

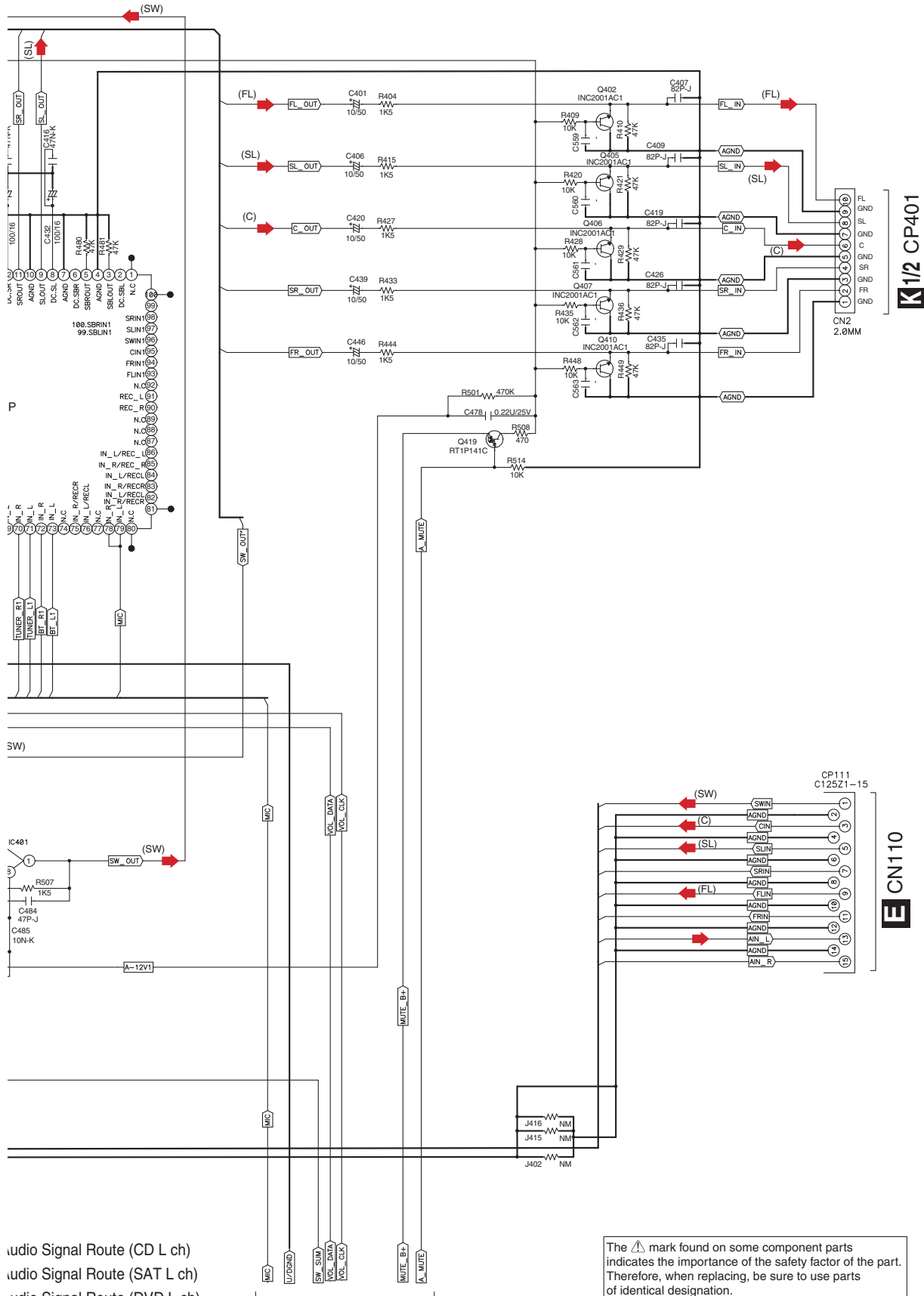
A1/2

VSX-824-K

- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center ch)
- (SW) : Audio Signal Route (Subwoofer ch)
- (CD) : Audio Signal Route (C)
- (SAT) : Audio Signal Route (S)
- (DVD) : Audio Signal Route (D)
- (L) : Audio Signal Route (L)



A2/2 MAIN ASSY (7028074511010)



Audio Signal Route (CD L ch)
 Audio Signal Route (SAT L ch)
 Audio Signal Route (DVD L ch)
 Audio Signal Route (L ch)

The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

10.5 MAIN ASSY (VSX-1024-K, VSX-1029-K, VSX-44)

A

B

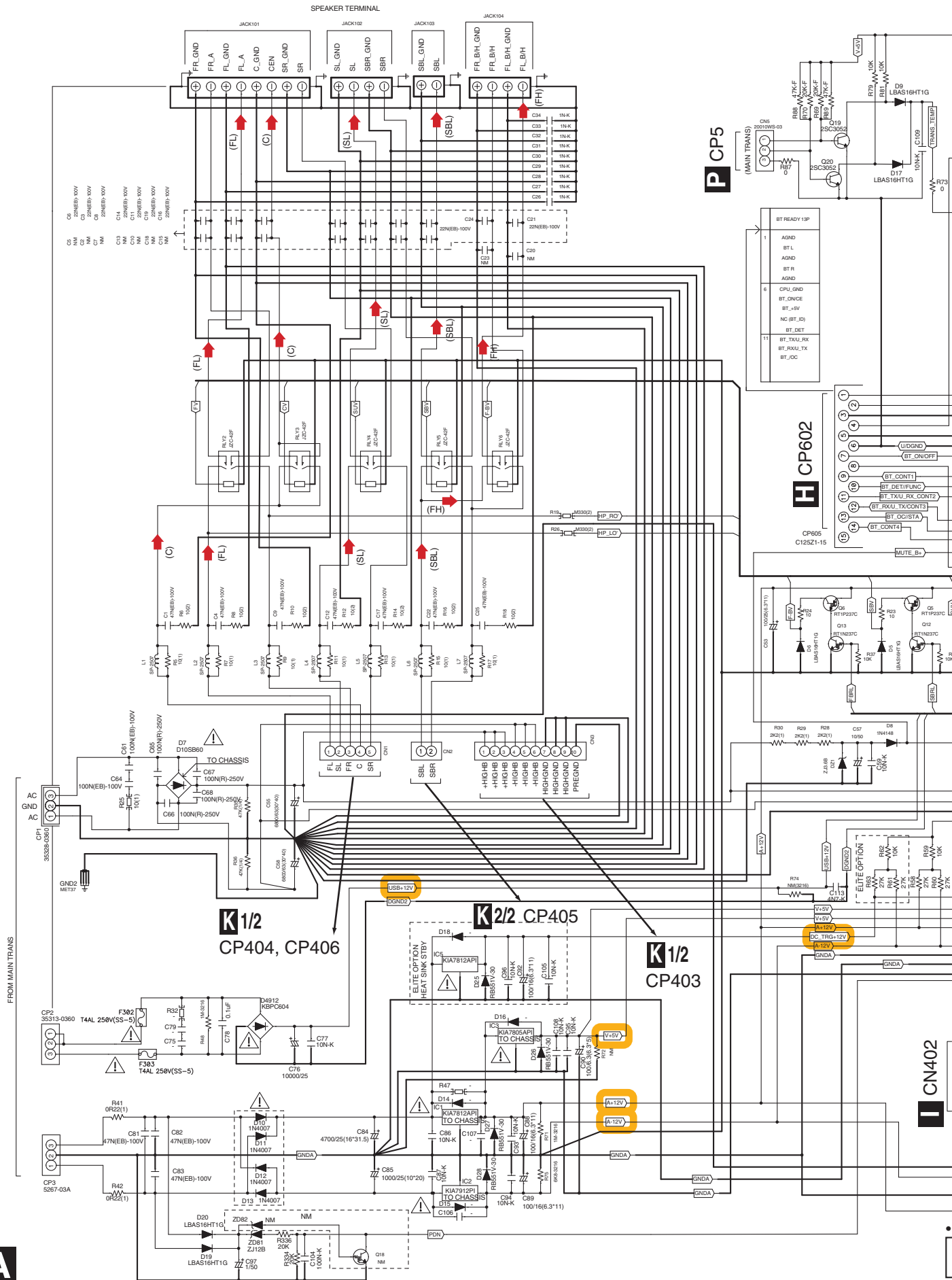
C

D

E

F

12



VSX-824-K

A



- F

A

VSX-824-K

4

F



A

E



D

E

F

4



10.8 DMAIN ASSY (3/7)

SYXEV8,JXEV : VSX-529-K/SYXEV8, VSX-529-S/SYXEV8,
VSX-824-K/SYXEV8, VSA-824/JXEV
OTHERS : VSX-1024-K/CUXESM, VSX-1029-K/CUXE,
VSX-44/CUXE, VSX-824-K/CUXESM,
VSX-824-K/DLXEV, VSX-824-K/FXEV,
VSX-824-K/AXEV5

B 1/7

B

C

D

E

F

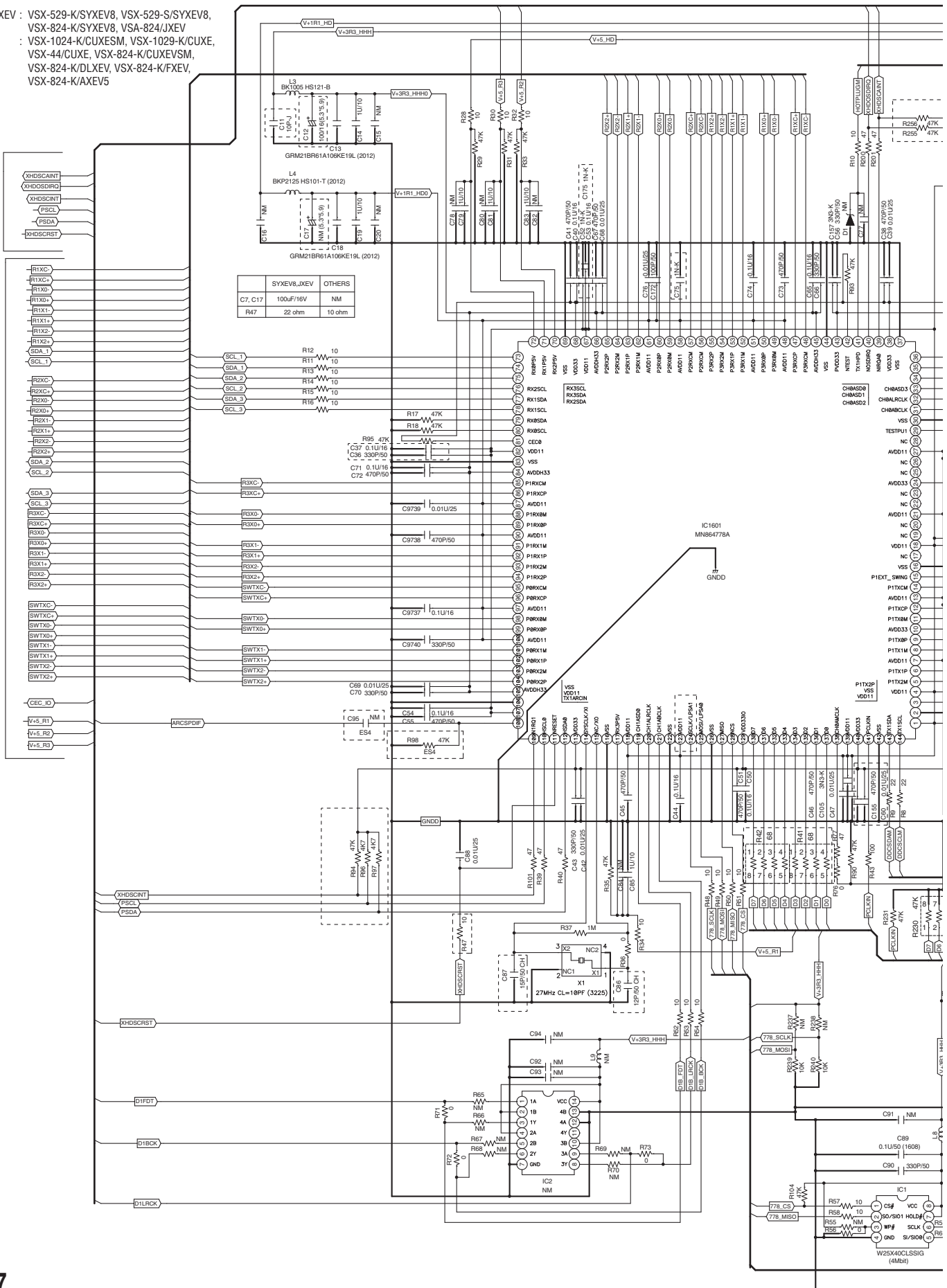
B 1/7

B 2/7

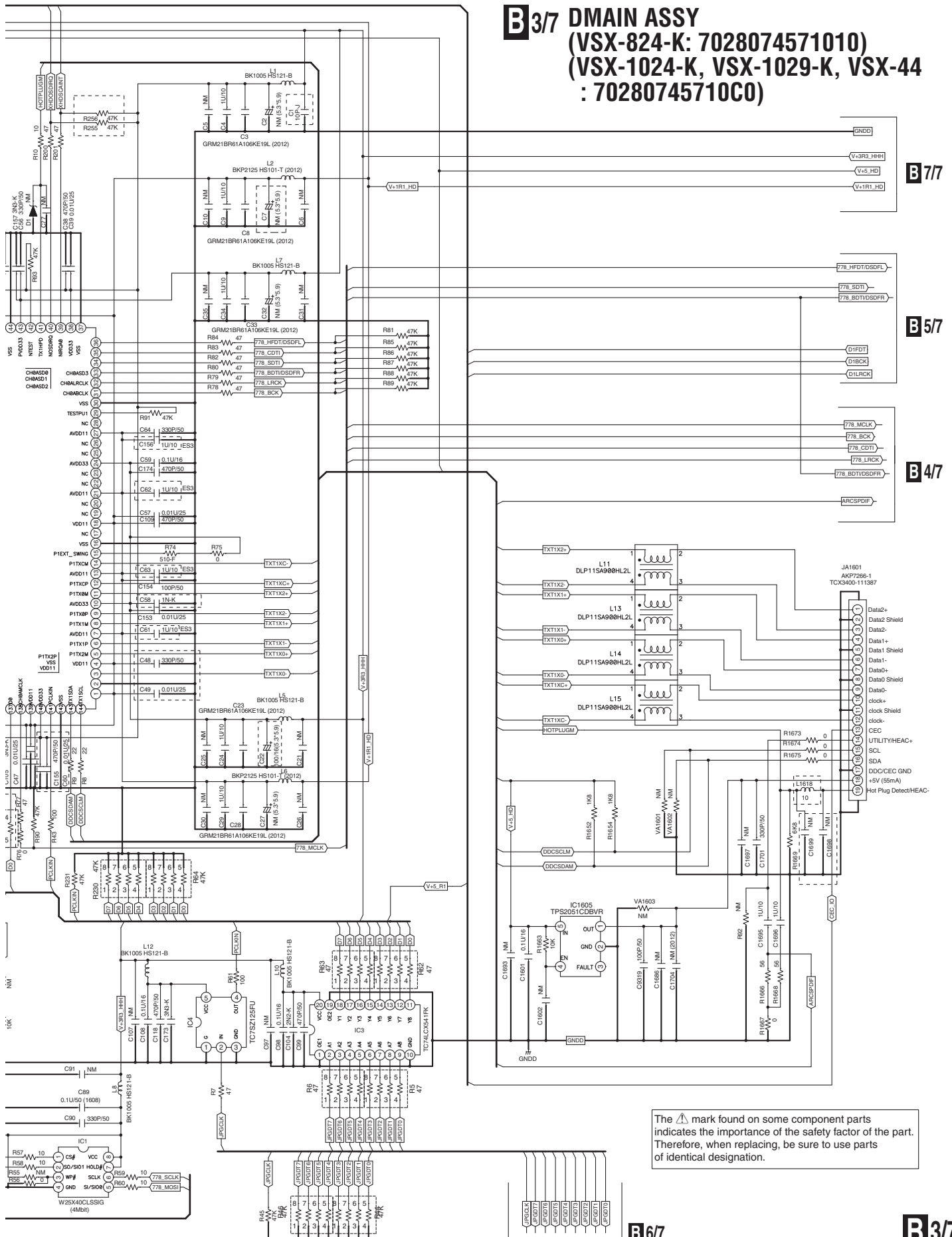
B 3/7

18

VSX-824-K



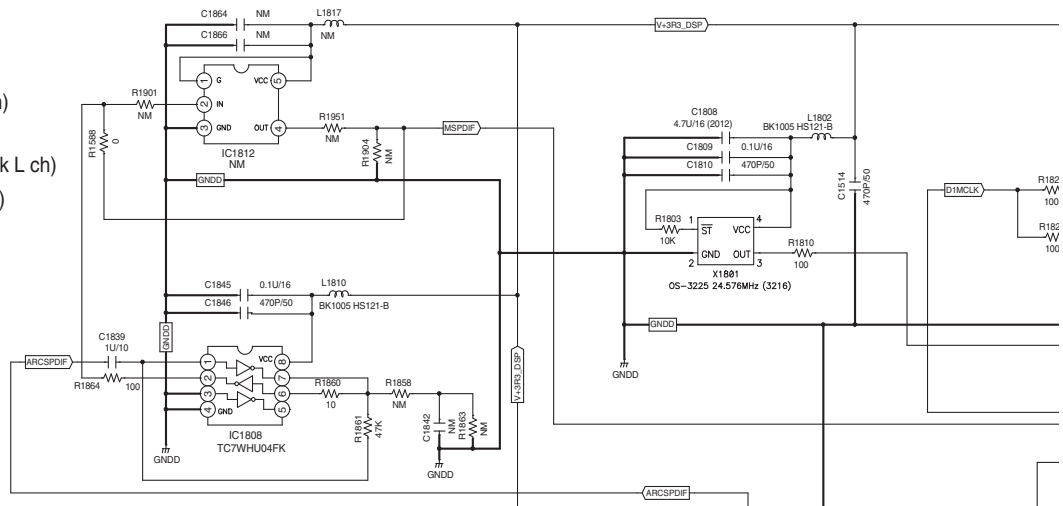
B3/7 DMAIN ASSY **(VSX-824-K: 7028074571010)** **(VSX-1024-K, VSX-1029-K, VSX-44** **: 70280745710C0)**



VSX-824-K

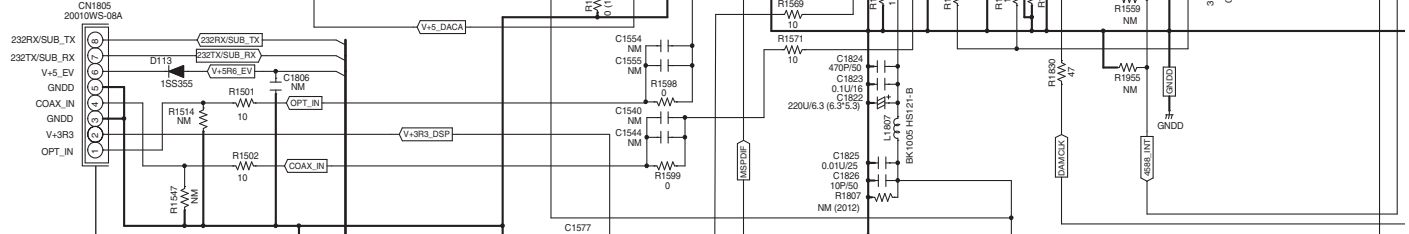
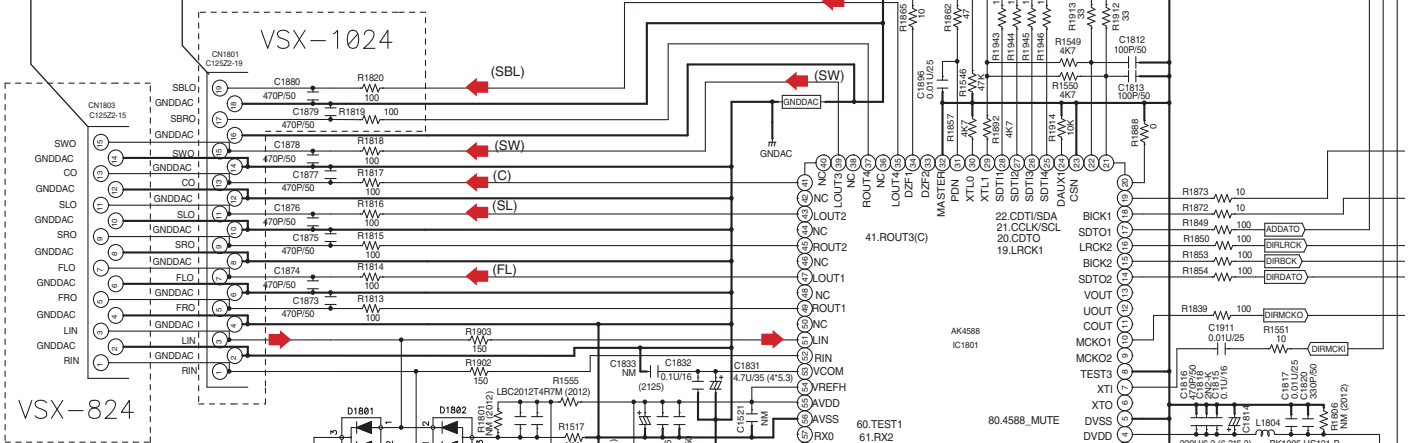
10.9 DMAIN ASSY (4/7)

- ▶ : Audio Signal Route (L ch)
- (FL) ▶ : Audio Signal Route (Front L ch)
- (SL) ▶ : Audio Signal Route (Surround L ch)
- (C) ▶ : Audio Signal Route (Center ch)
- (SBL) ▶ : Audio Signal Route (Surround Back L ch)
- (SW) ▶ : Audio Signal Route (Subwoofer ch)



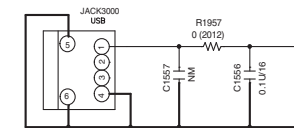
E CN109 (VSX-824-K)

D CP2003 (VSX-1024-K, VSX-1029-K, VSX-44)



C CP2009

USB FOR WIFI-DIRECT



The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

B4/7

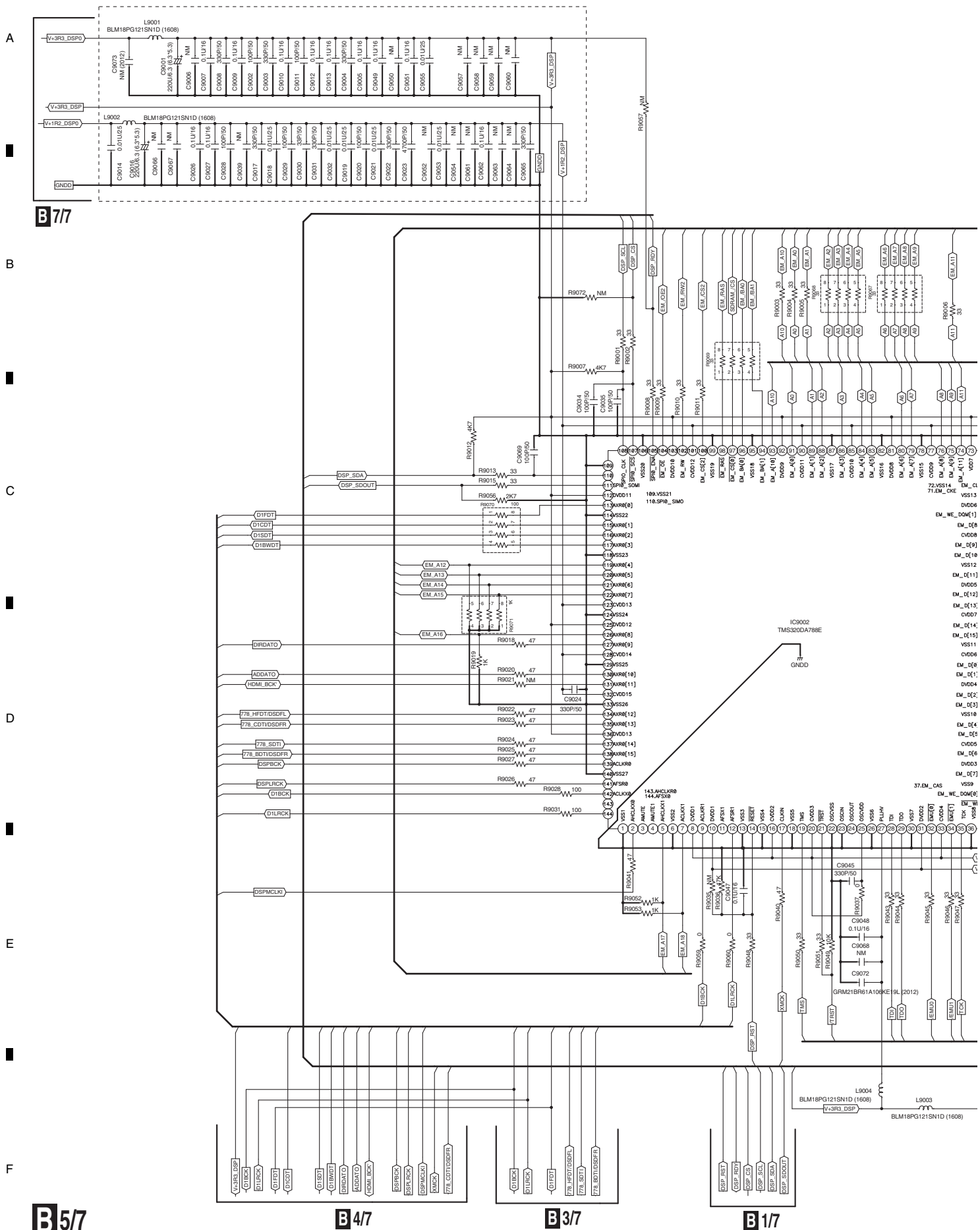
B1/7

B1/7

F

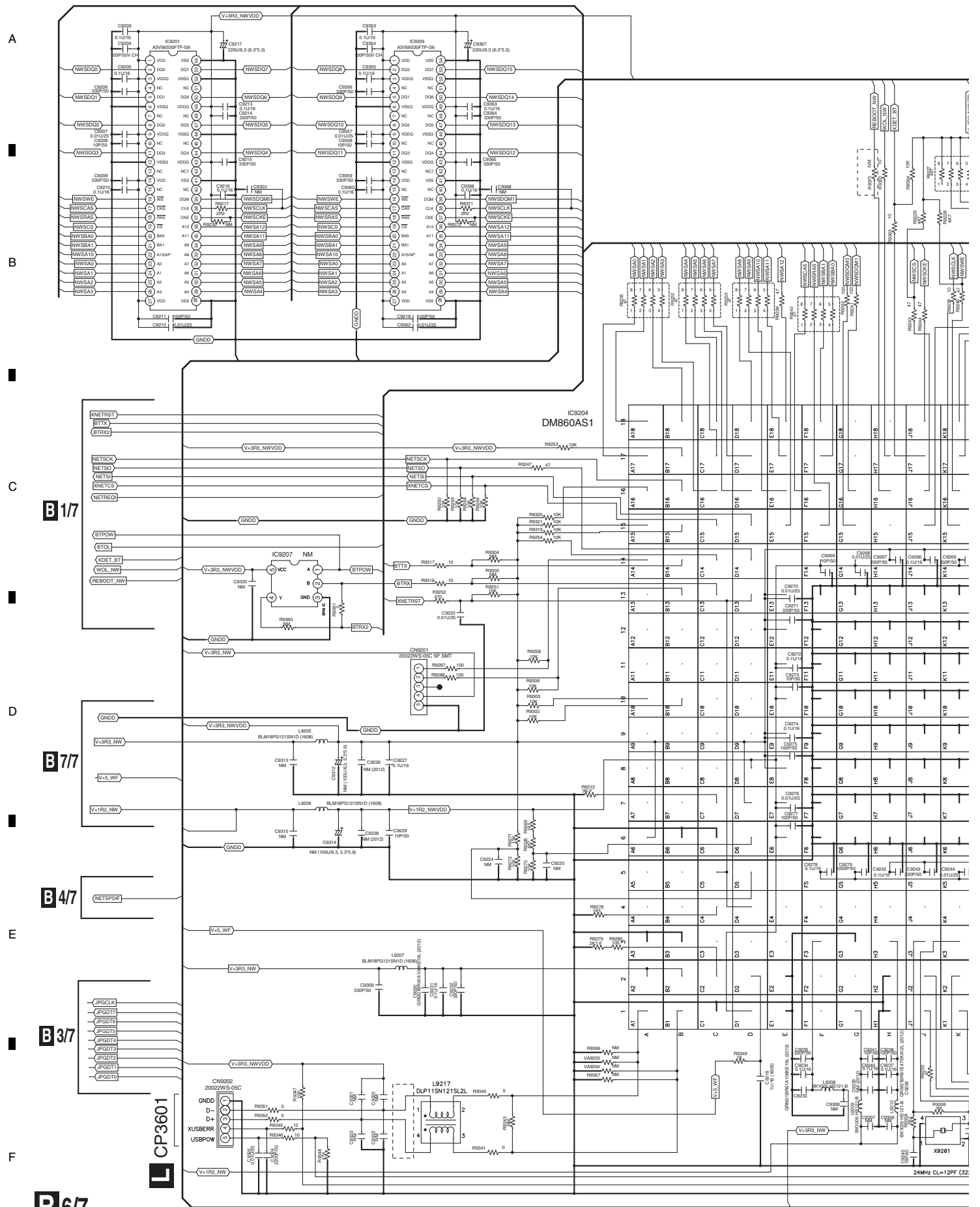


10.10 DMAIN ASSY (5/7)

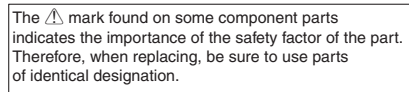


B57

10.11 DMAIN ASSY (6/7)



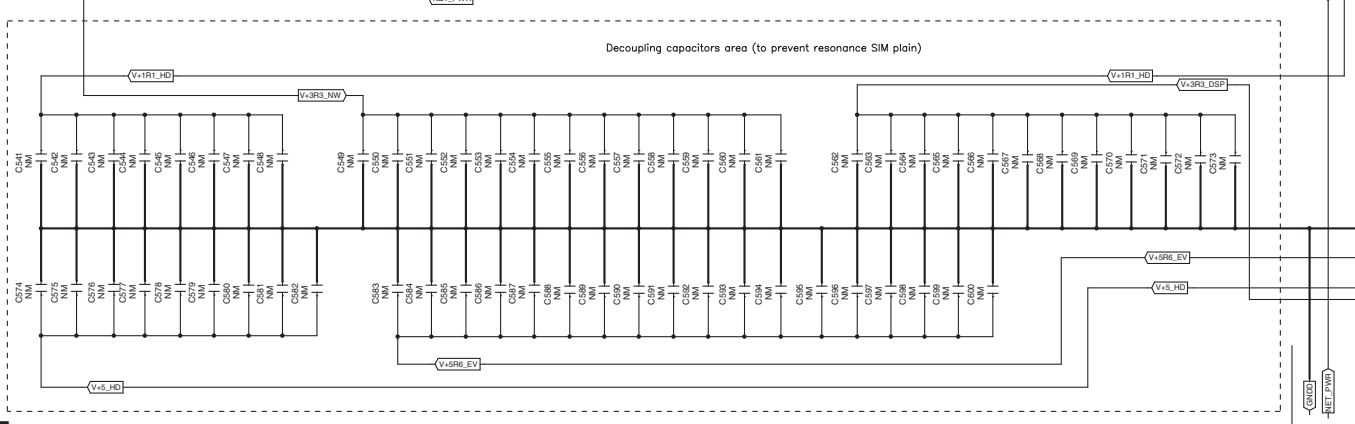
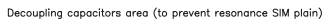
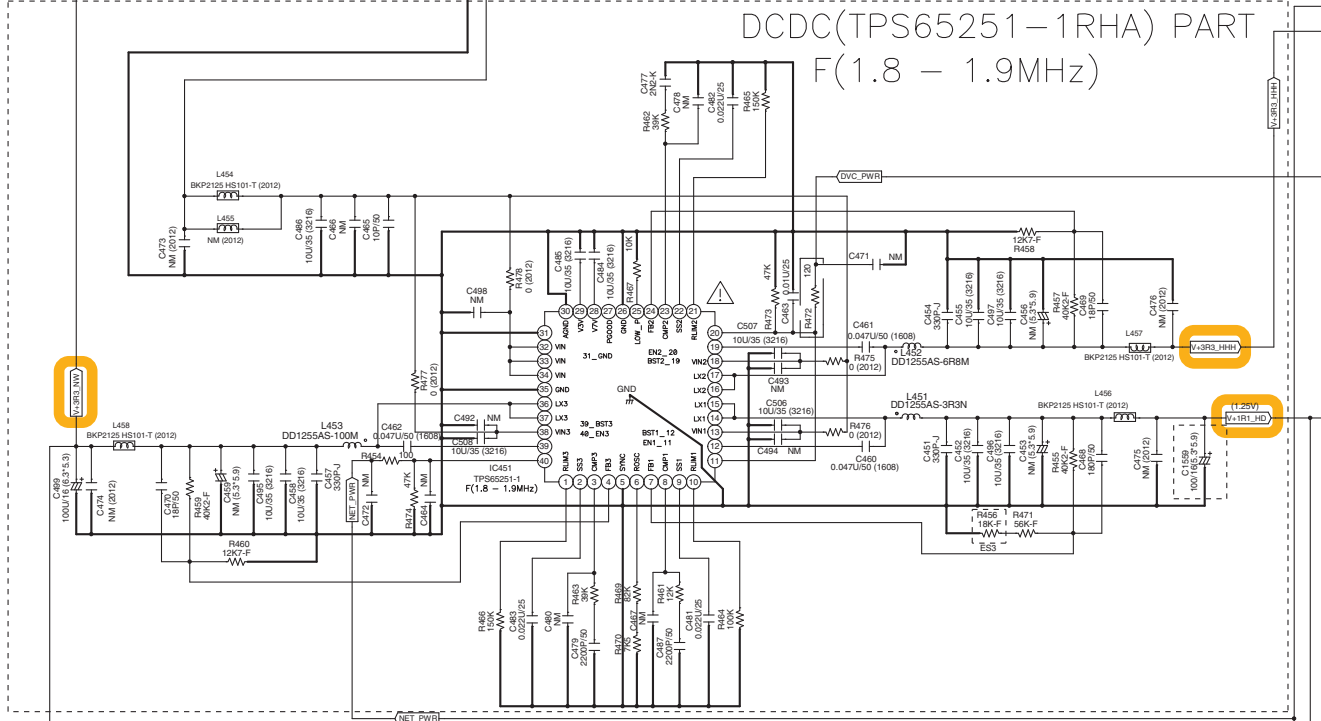
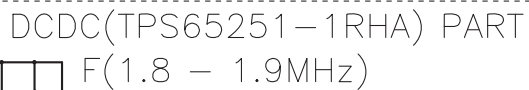
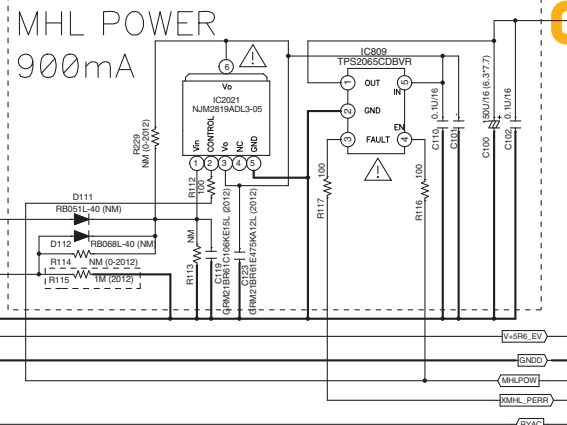
F



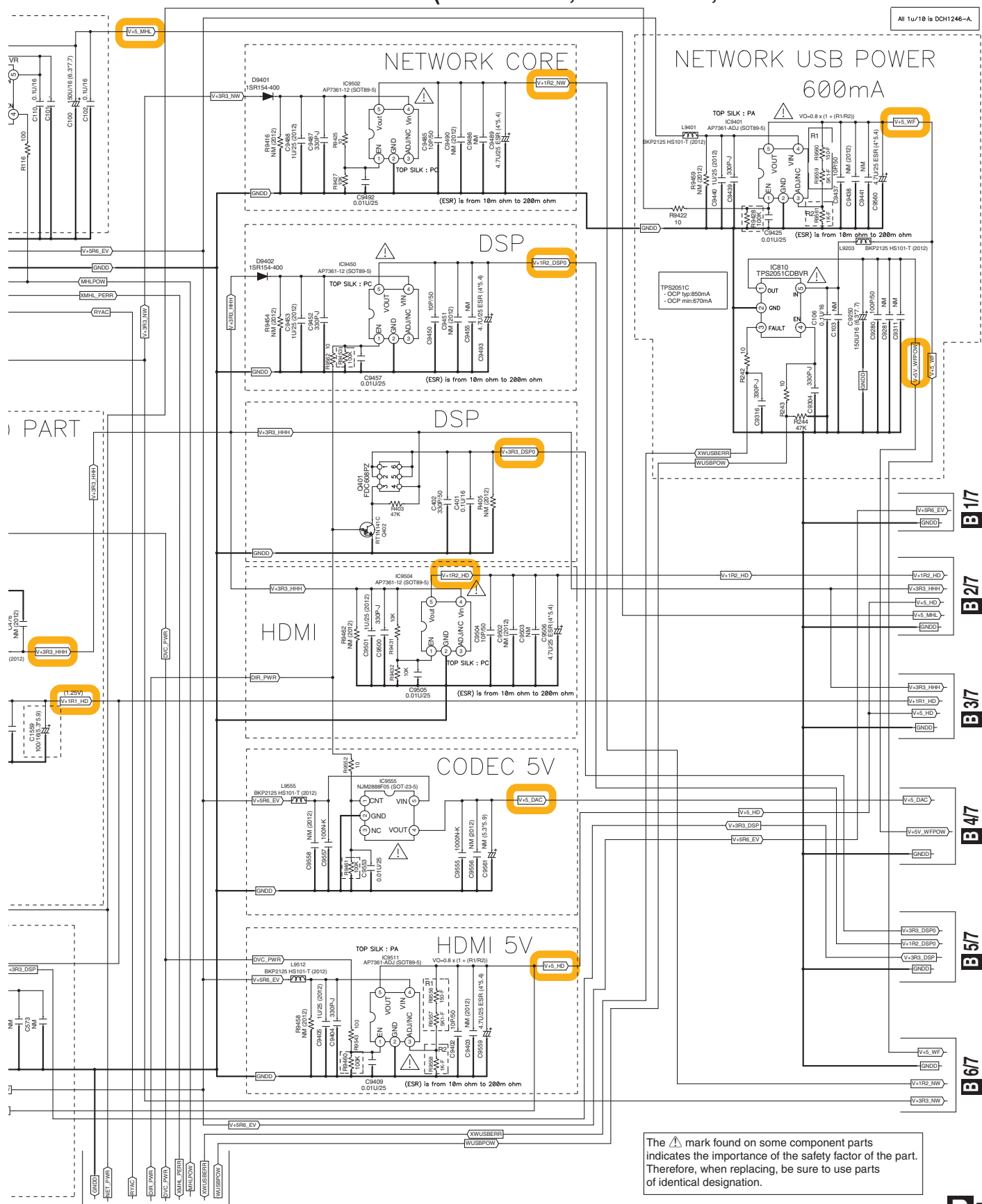
4

USA : VSX-1024-K/CUXESM, VSX-1029-K/CUXE,
VSX-44/CUXE, VSX-824-K/CUXEVSM
OTHERS : VSX-529-K/SYXEVB, VSX-529-S/SYXEVB,
VSX-824-K/SYXEVB, VSA-824/JXEV,
VSX-824-K/DLXEV, VSX-824-K/FXEV,
VSX-824-K/AXEV5

	USA	OTHERS
D111	RB051L-40	NM
D112	RB068L-40	NM
R112	100	NM
R113	NM	
R114	NM	O-2125
R115	NM	NM
R229	NM	O-2125
C119	GRM21BR61E475KA15L	NM
C123	GRM21BR61E475KA12L	NM
IC2021	NJM527DL3-05	NM
VCC	6.3V	5.1V



B7/7 DMAIN ASSY **(VSX-824-K: 7028074571010)** **(VSX-1024-K, VSX-1029-K, VSX-44: 70280745710C0)**



The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

C OPTCO ASSY (VSX-824-K: 7028074523010)
(VSX-1024-K, VSX-1029-K, VSX-44: 70280745230C0)

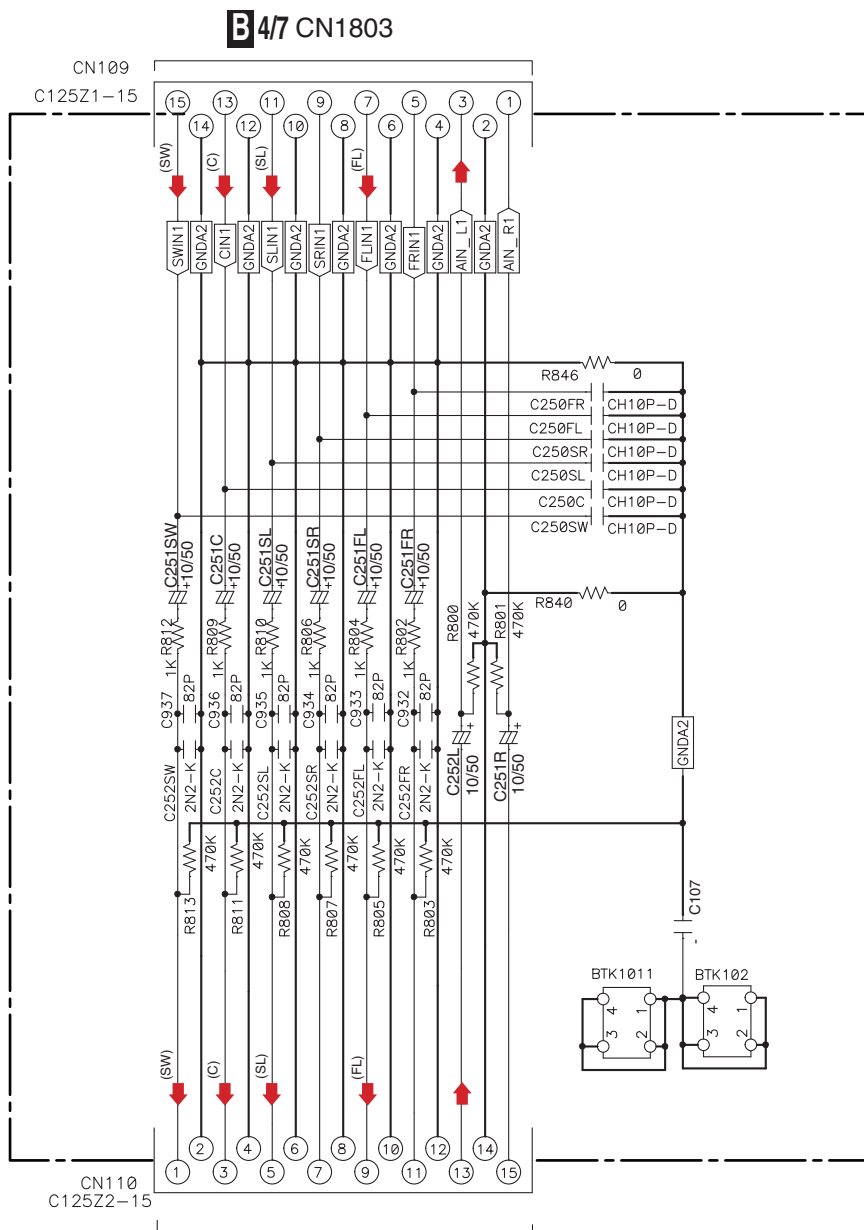


B 4/7 CN1801



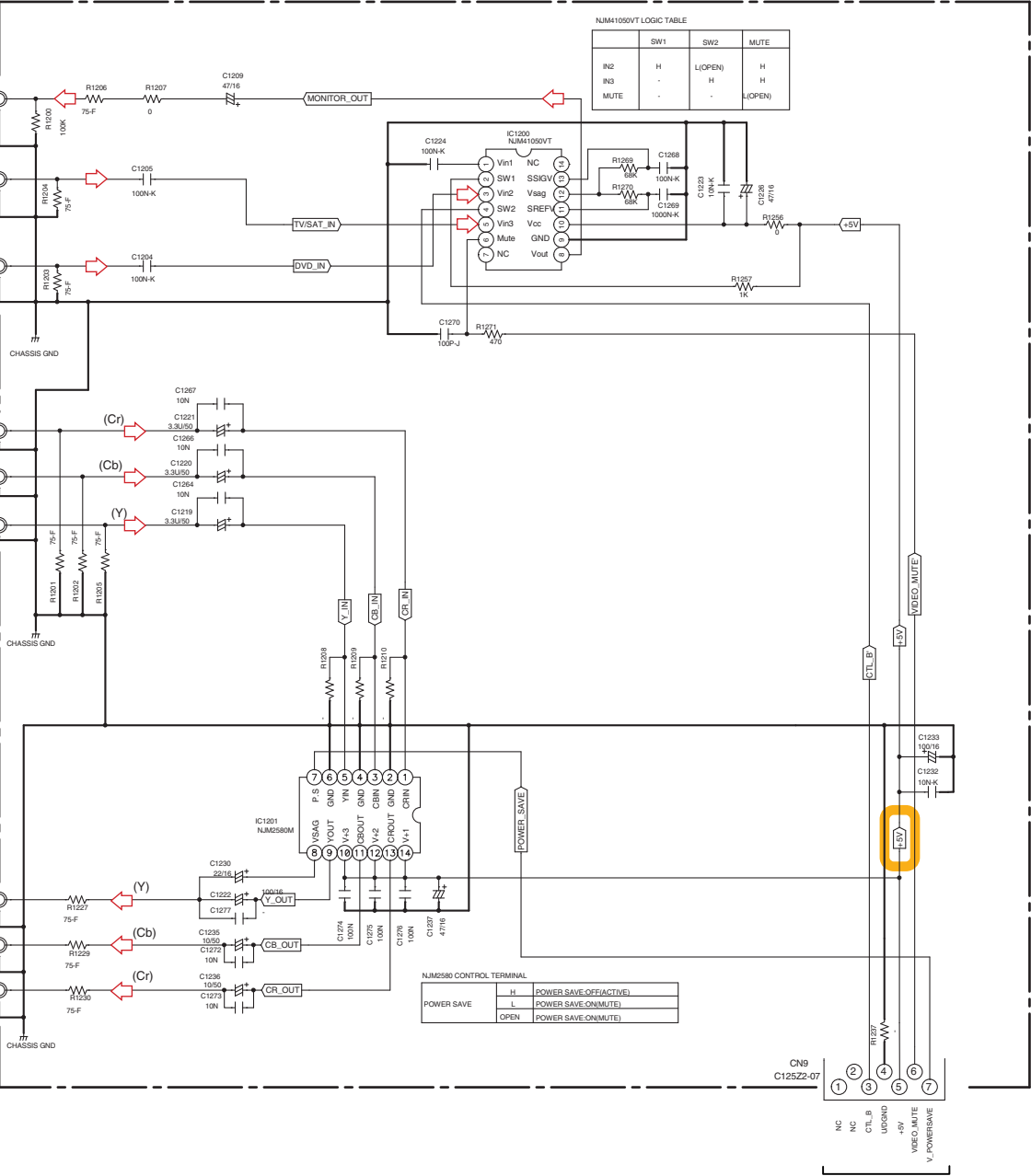
10.15 CONCT ASSY (VSX-824-K ONLY)

E CONCT ASSY (7028074513010)



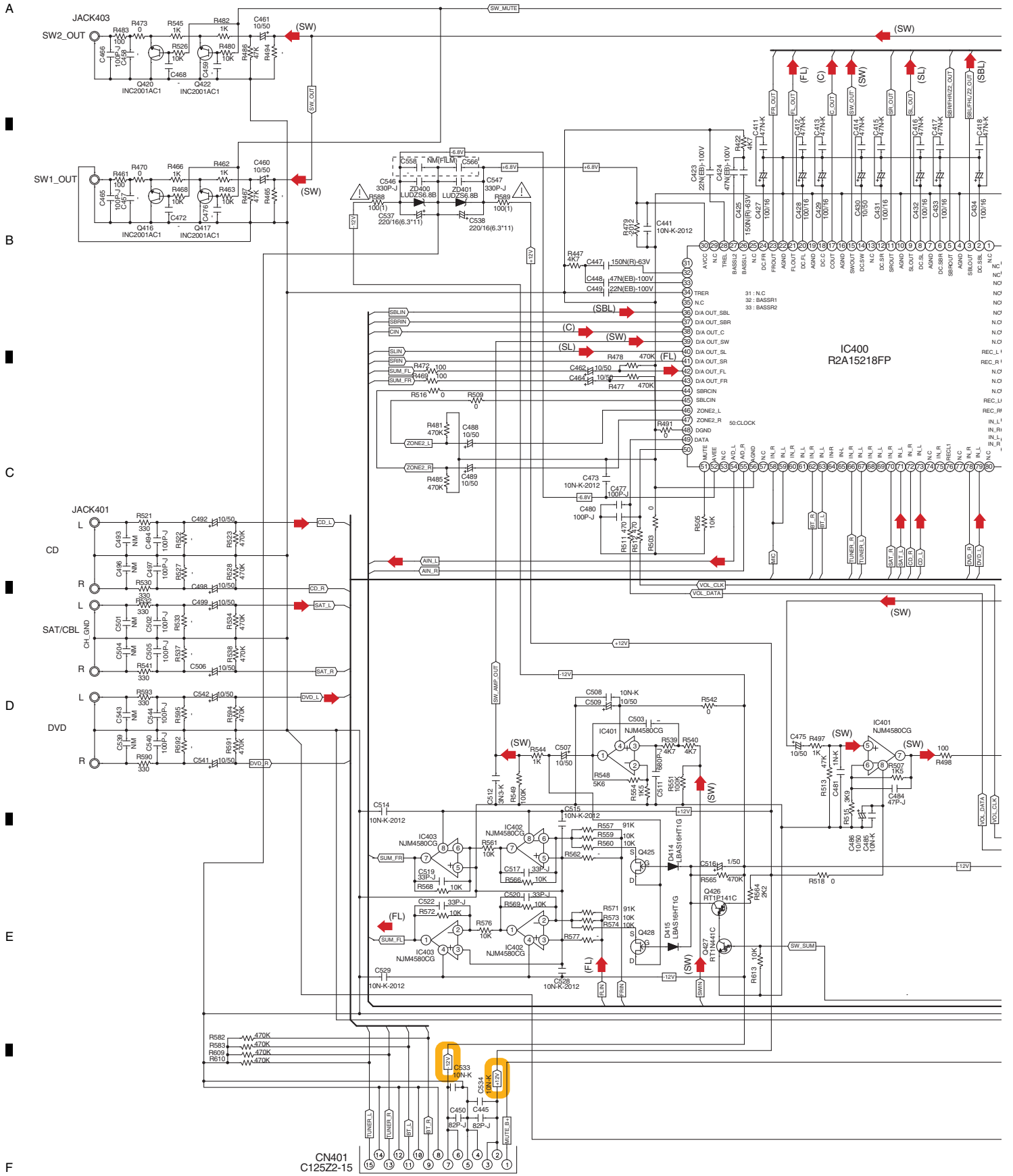
10.16 VIDEO ASSY (VSX-1024-K, VSX-1029-K, VSX-44 ONLY)

F VIDEO ASSY (7028074612030)



31

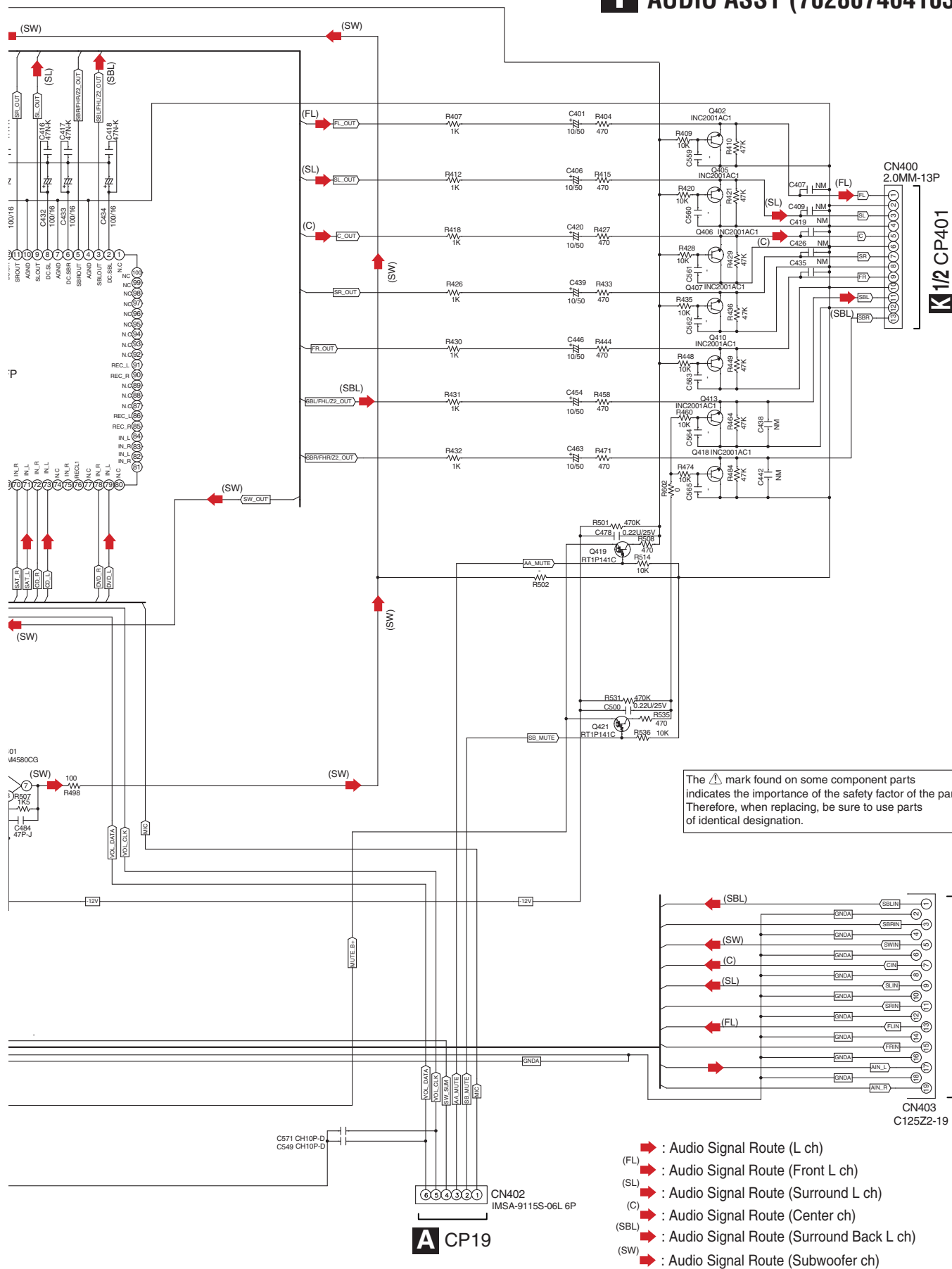
10.18 AUDIO ASSY (VSX-1024-K, VSX-1029-K, VSX-44 ONLY)



CP17

VSX-824-K

AUDIO ASSY (7028074641030)



A

B

C

D

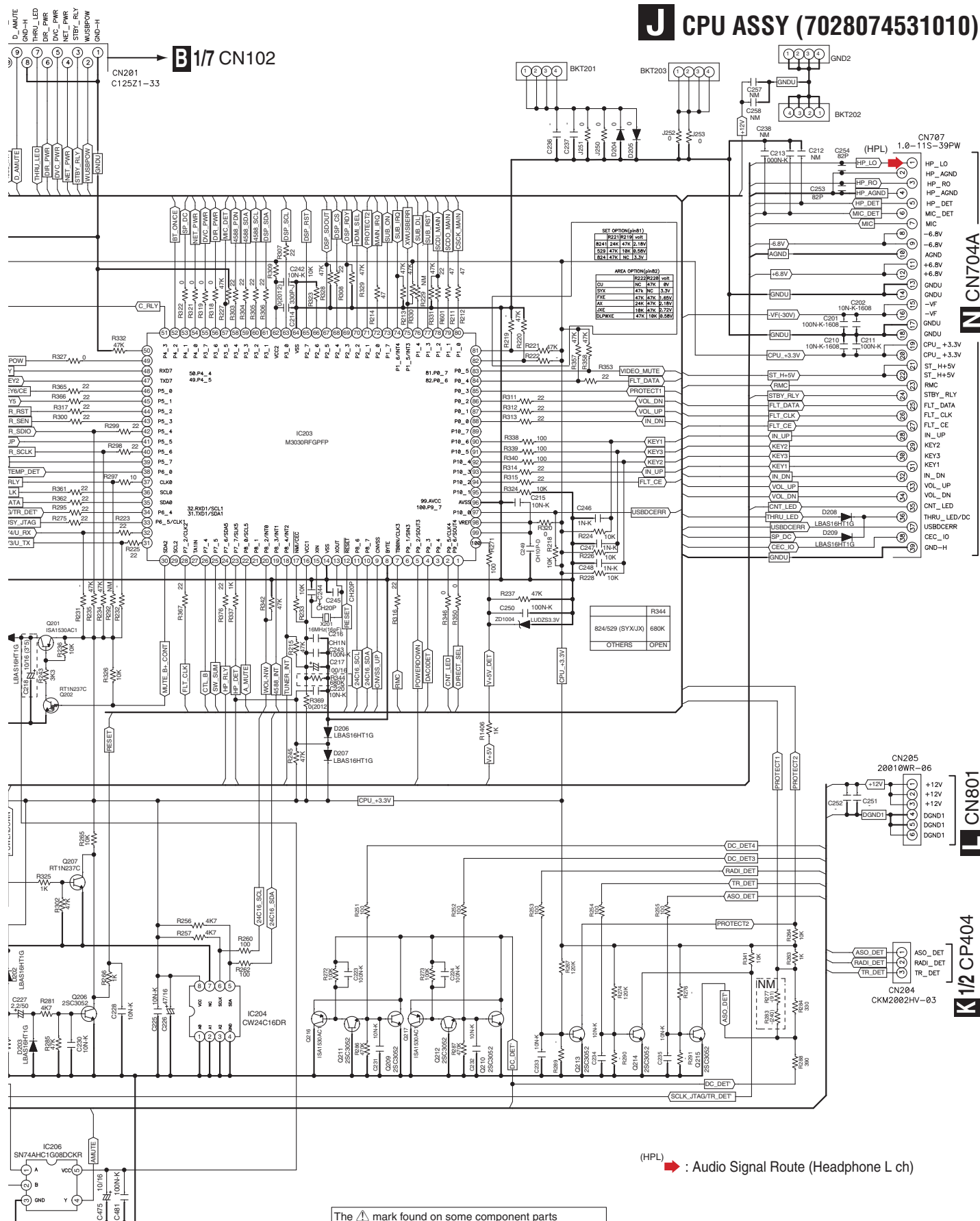
E

F

4



J CPU ASSY (7028074531010)



The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

(HPL) $\rightarrow$: Audio Signal Route (Headphone L ch)

10.20 CPU ASSY (VSX-1024-K, VSX-1029-K, VSX-44)

A

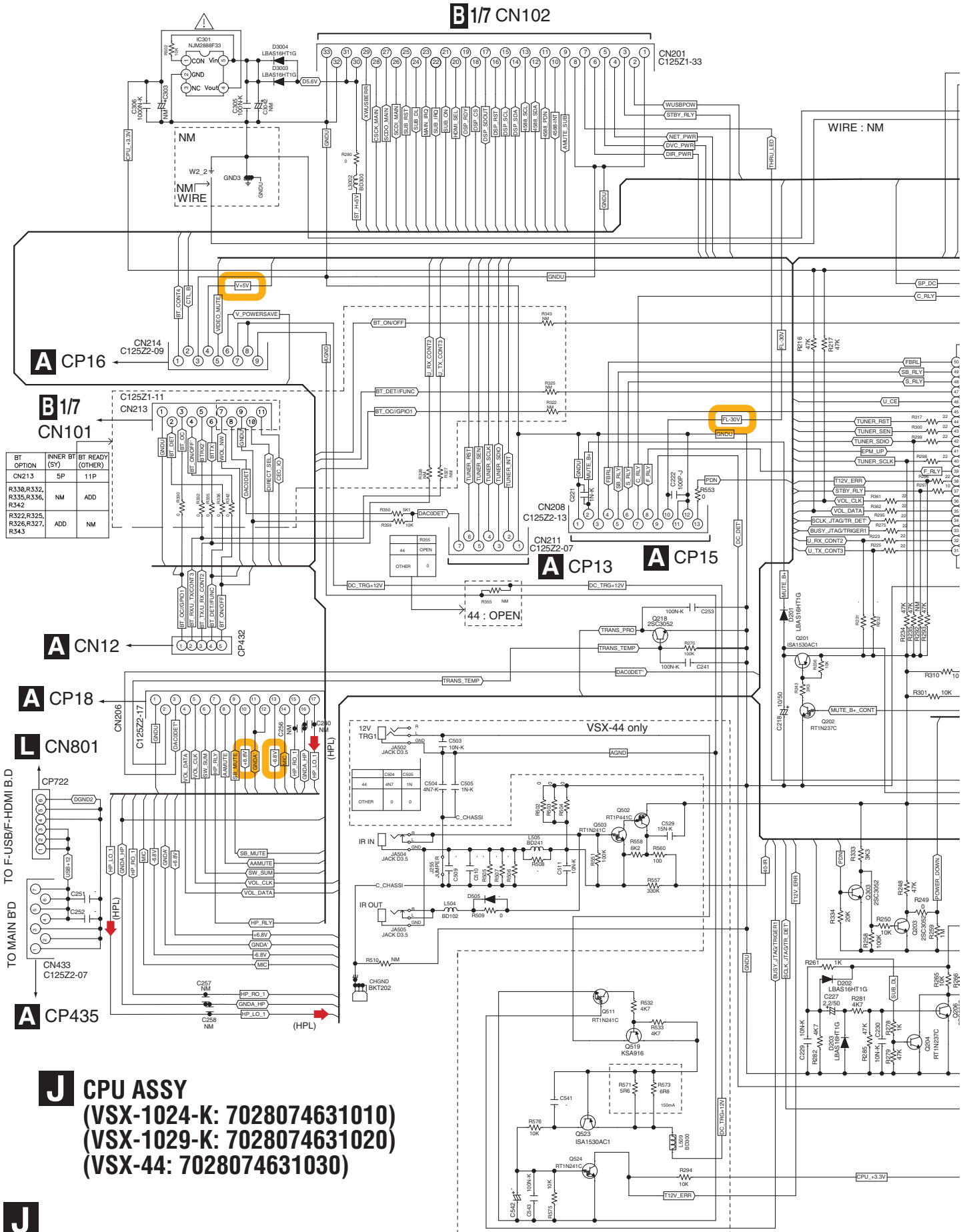
B

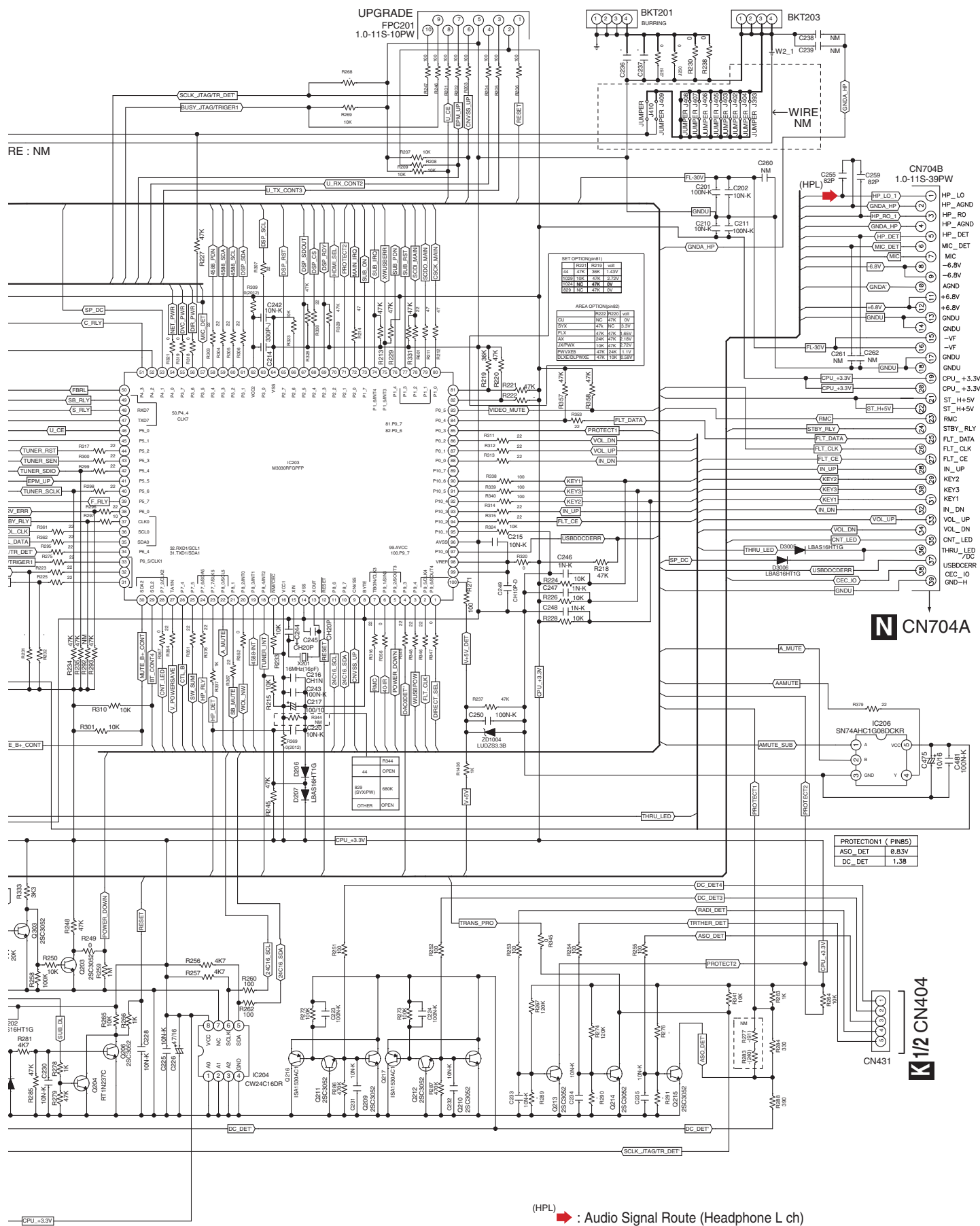
C

D

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A

B

C

D

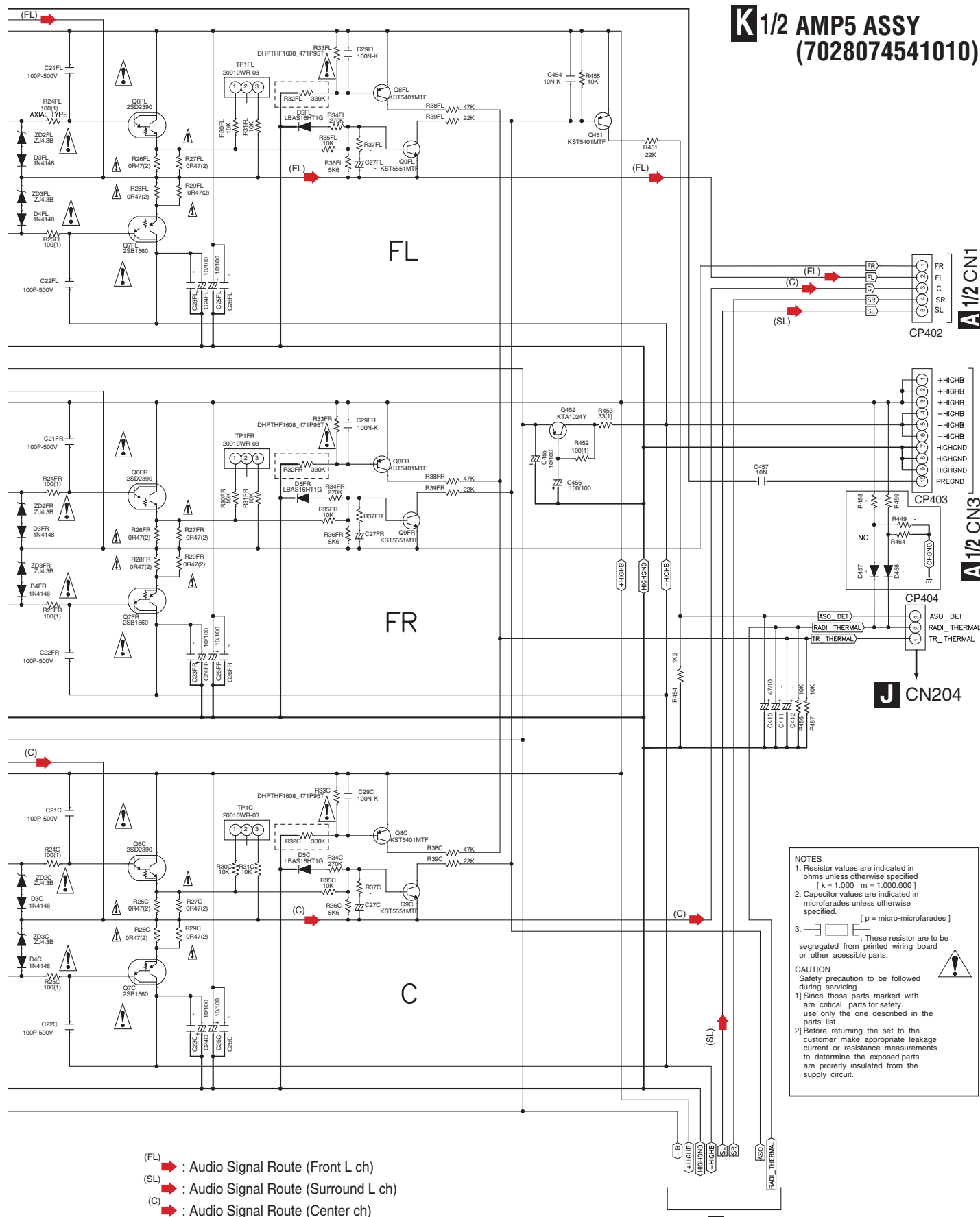
E

F

△



K 1/2 AMP5 ASSY (7028074541010)

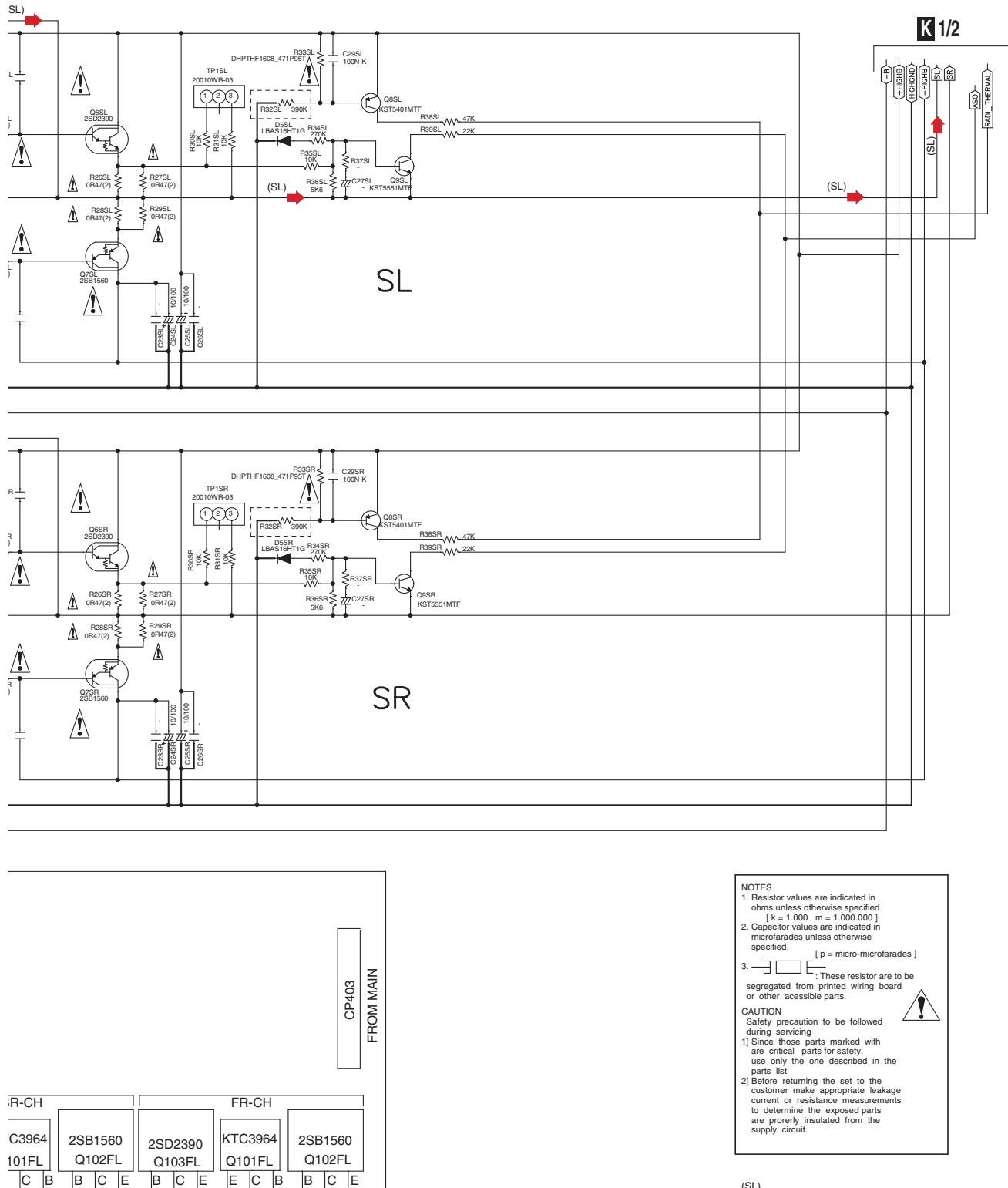

K 2/2

4

F



K2/2 AMP5 ASSY (7028074541010)



NOTES

1. Resistor values are indicated in ohms unless otherwise specified [k = 1,000 m = 1,000,000]
2. Capacitor values are indicated in microfarads unless otherwise specified. [p = micro-microfarads]
3. : These resistor are to be segregated from printed wiring board or other accessible parts.

CAUTION
Safety precaution to be followed during servicing

- 1) Since those parts marked with are critical parts for safety, use only the one described in the parts list
- 2) Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

(SL) ➡ : Audio Signal Route (Surround L ch)

10.23 AMP7 ASSY (1/2) (VSX-1024-K, VSX-1029-K, VSX-44)

A

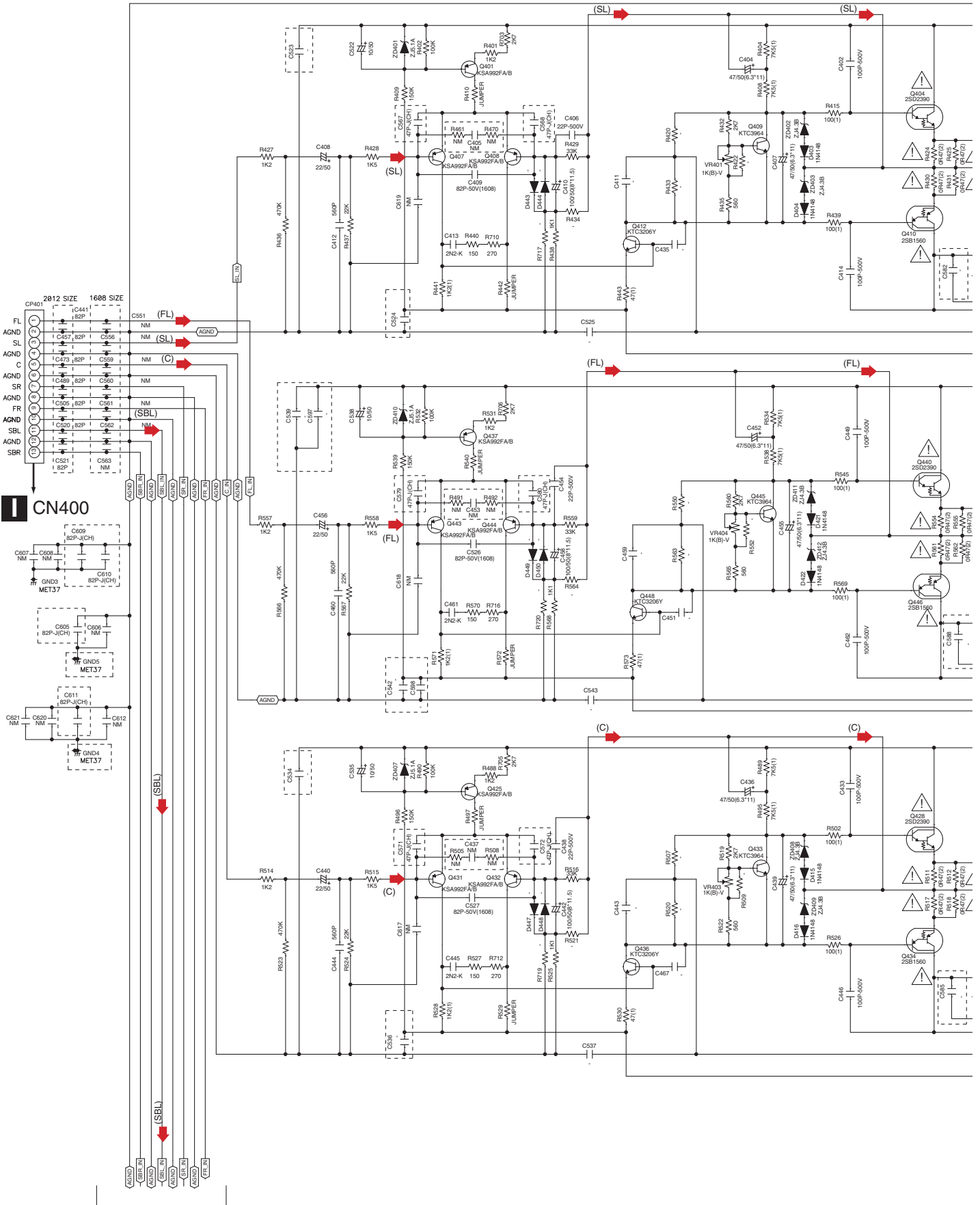
B

C

D

E

F



K1/2

K2/2

VSX-824-K

A



C

D

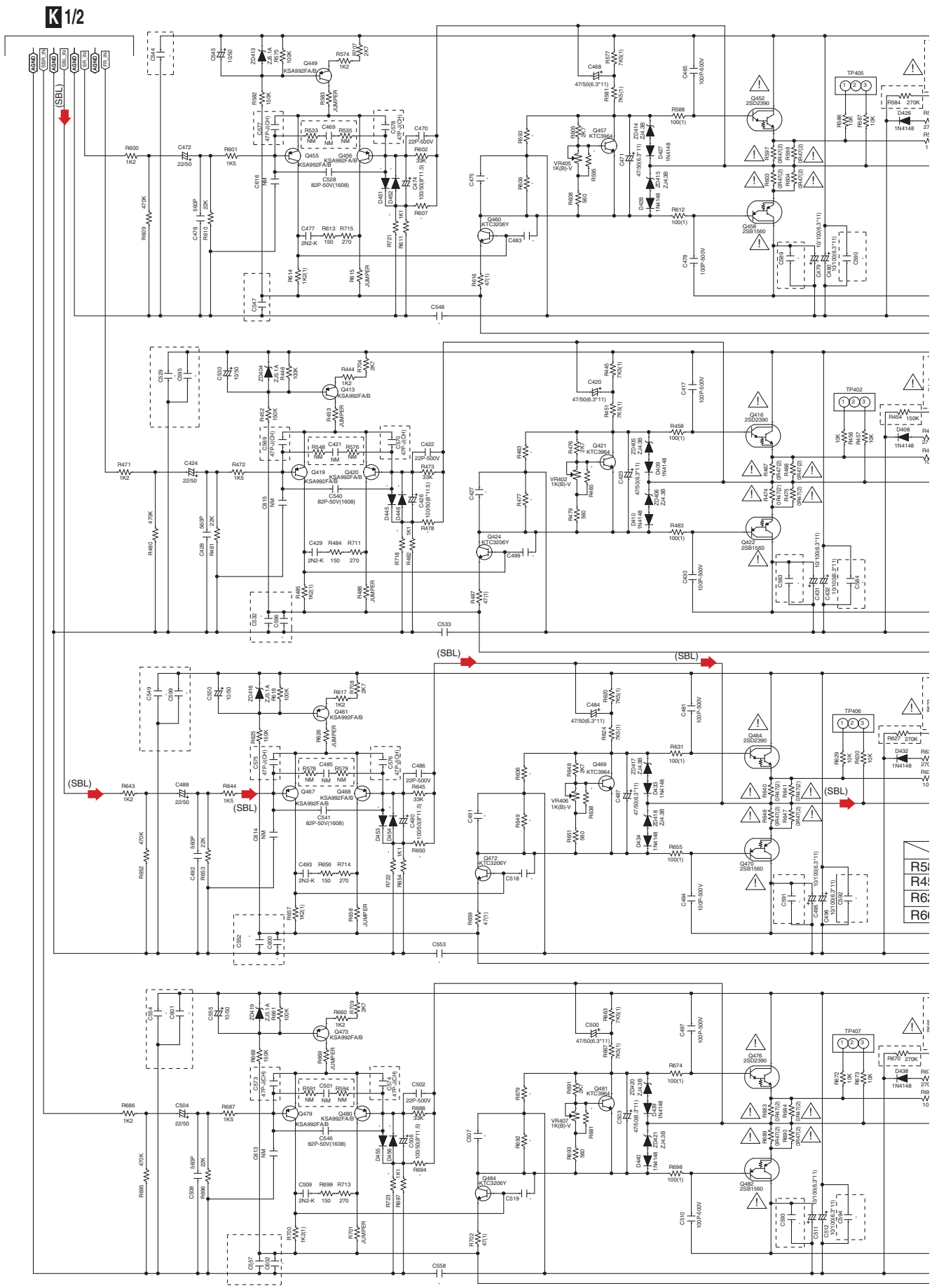
E

F

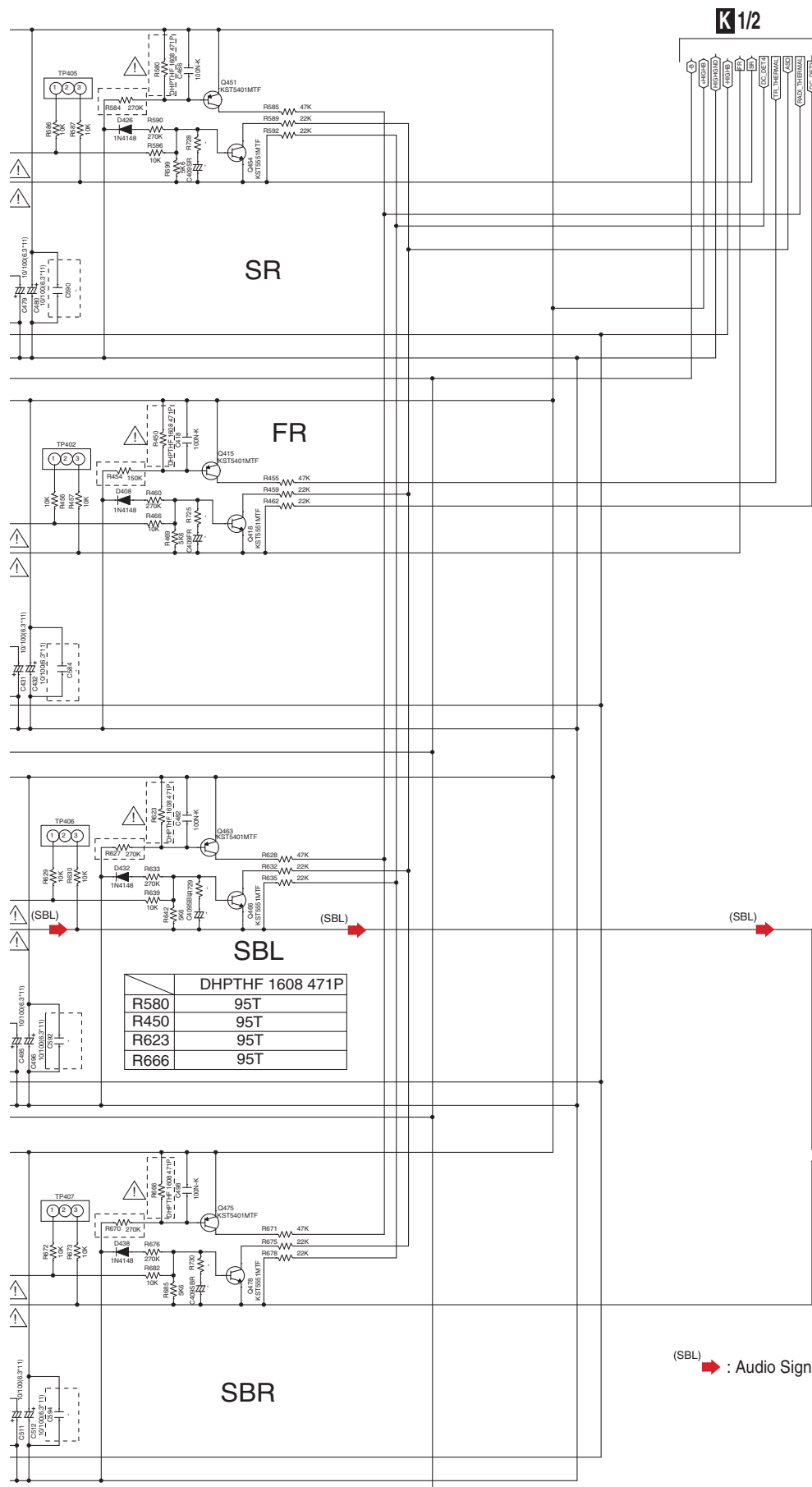
K 2/2

10.24 AMP7 ASSY (2/2) (VSX-1024-K, VSX-1029-K, VSX-44)

A
B
C
D
E
F



K2/2 AMP7 ASSY (70280730510C0)



NOTES

1. Resistor values are indicated in ohms unless otherwise specified
[k = 1,000 m = 1,000,000]
2. Capacitor values are indicated in microfarads unless otherwise specified.

[p = micro-microfarads]

3. : These resistor are to be segregated from printed wiring board or other accessible parts.

CAUTION

Safety precaution to be followed during servicing

- 1] Since those parts marked with are critical parts for safety, use only the one described in the parts list
- 2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.



(SBL) : Audio Signal Route (Surround Back L ch)

10.25 FHDMI ASSY

A

B

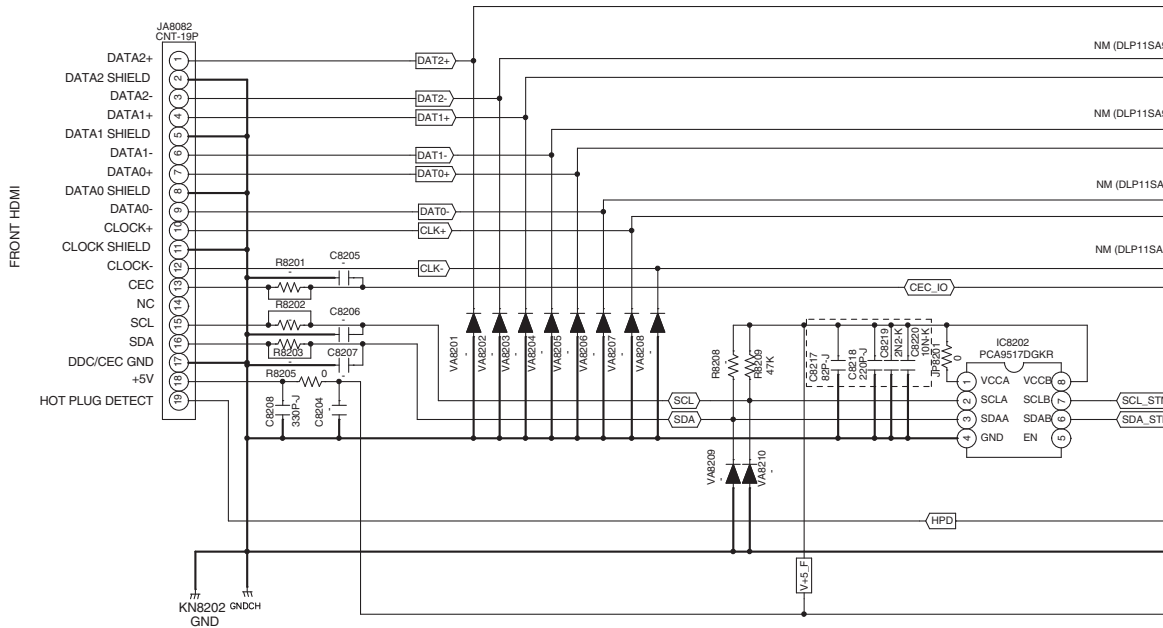
C

L FHDMI ASSY (VSX-824-K: 7028074581010)
(VSX-1024-K, VSX-1029-K, VSX-44: 70280745810A0)

D

E

F

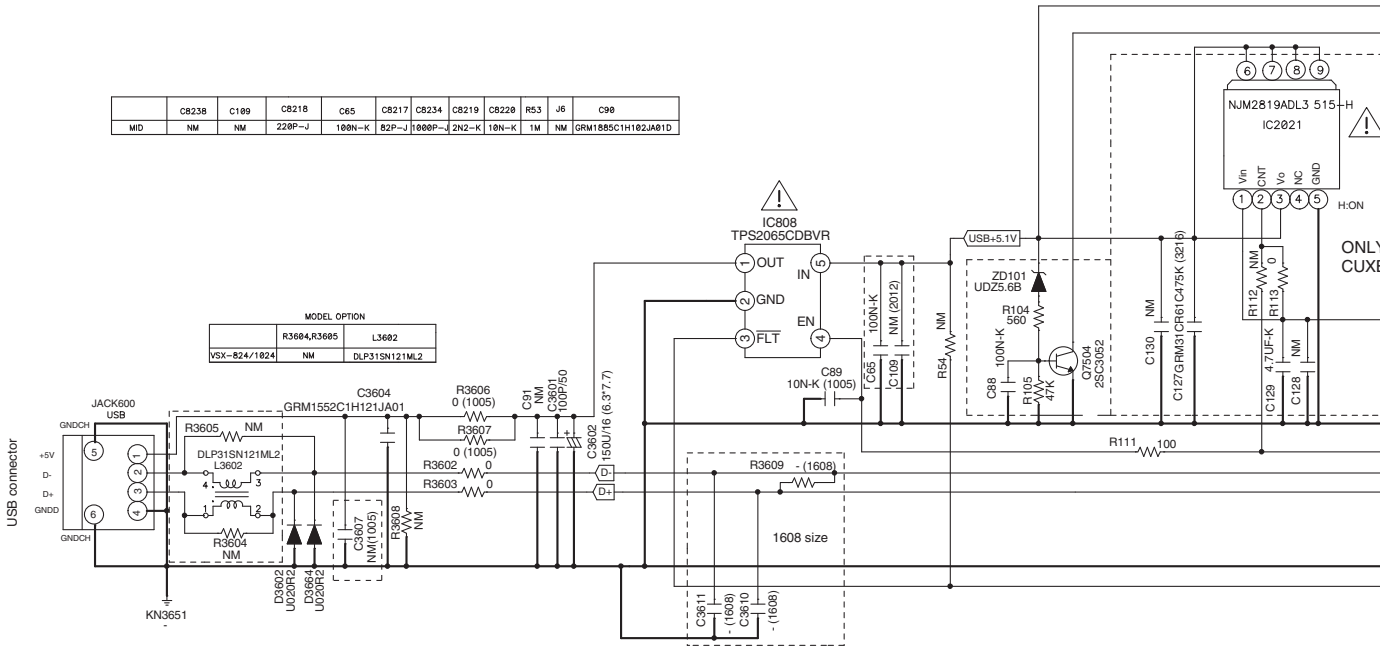


MODEL AREA OPTION				
	J1	J2	J3	J4
MID	JUMPER	NM	NM	NM
CUXE	NM	NM	JUMPER	NM
OTHERS	NM	NM	NM	JUMPER

NJM2819 OPTION									
	IC2821	C127	C129	R113	D3603	R58	R59		
CUXESM	NJM2819ADL3-515	GRM31CR61C475K	4.7UF-K	0	R8068L-40	NM	NM		
OTHERS	NM	NM	NM	NM	NM	0 ohm	0 ohm		

	C8238	C189	CR218	C65	CR217	CR234	CR219	CR228	R53	J6	C98
MID	NM	NM	220P-J	100N-K	82P-J	1000P-J	2N2-K	10N-K	1M	NM	GRM1885C1H102JA010

MODEL OPTION		
	R3604,R3605	L3602
VSX-824/1024	NM	DLP31SN121ML2



10.26 INSEL, FRONT, HPMIC and NTC ASSYS

A

B

C

D

E

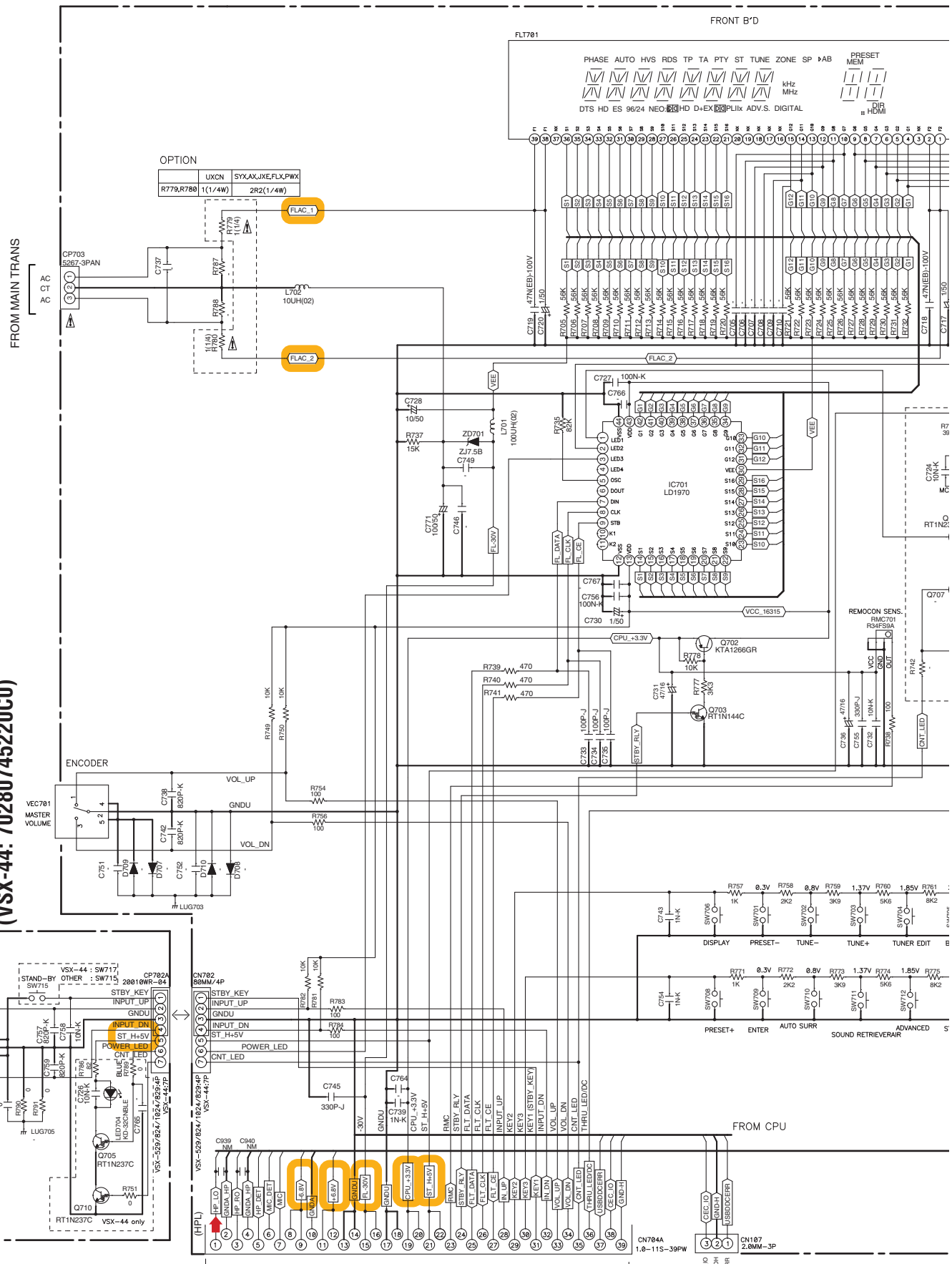
F

INSEL ASSY

(VSX-824-K: 7028074522010)

(VSX-1024-K, VSX-1029-K: 70280745220A0)

(VSX-44: 70280745220C0)



J CN707 (VSX-824-K)
L CN704B(VSX-1024-K, VSX-1029-K, VSX-44)

L CN803

M **N**



△



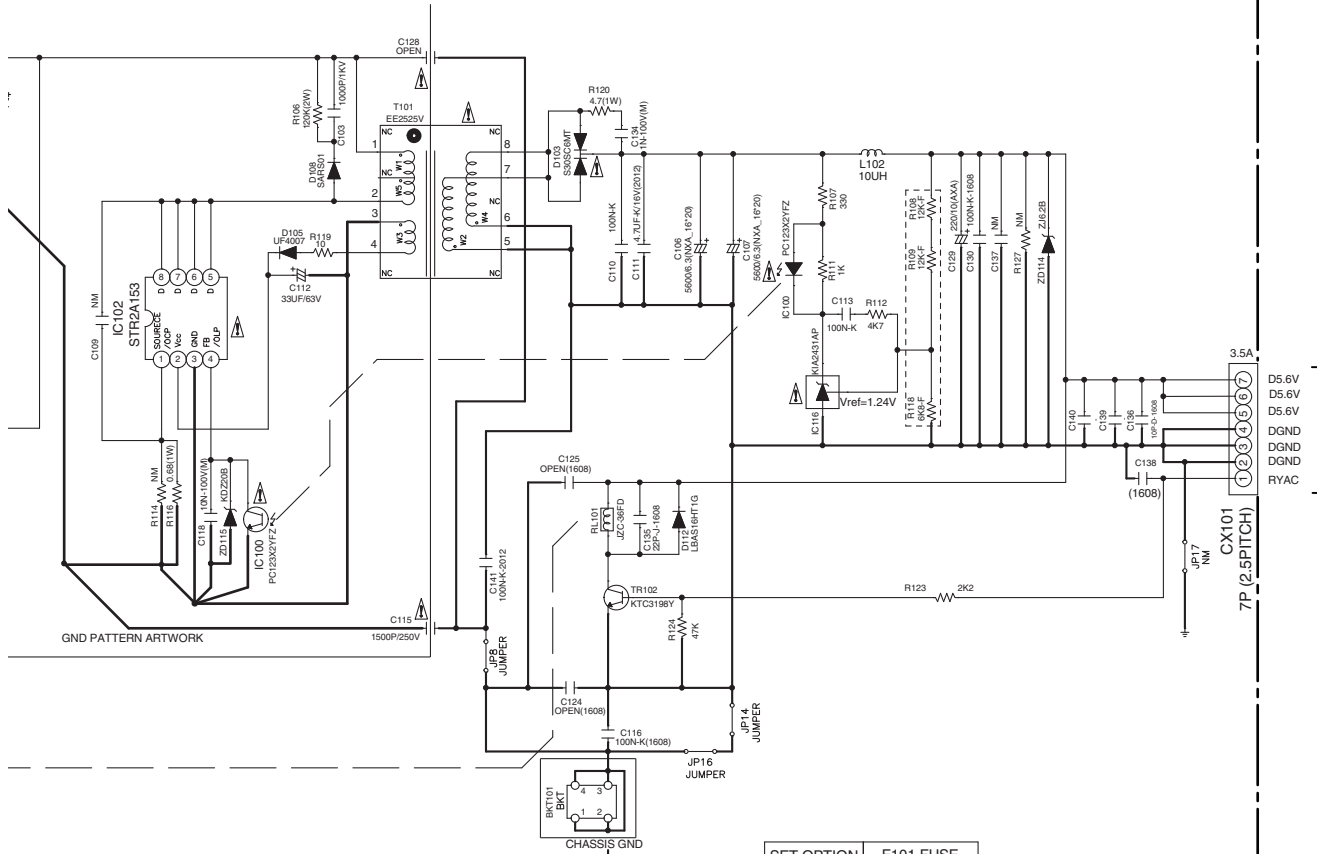
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.



SMPS ASSY

(702807336104A: VSX-824-K)

(702807336107A: VSX-1024-K, VSX-1029-K, VSX-44)



SET OPTION		F101 FUSE	
J11 JUMPER	J12 JUMPER	J1 JUMPER	J2 JUMPER
HIGH SERIES	MID SERIES	8A	6.3A

NOTES

1. Resistor values are indicated in ohms unless otherwise specified [k = 1,000 m = 1,000,000]

2. Capacitor values are indicated in microfarads unless otherwise specified.

[p = micro-microfarads]

3. : These resistor are to be segregated from printed wiring board or other accessible parts.

CAUTION

Safety precaution to be followed during servicing

1) Since those parts marked with are critical parts for safety, use only the one described in the parts list

2) Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

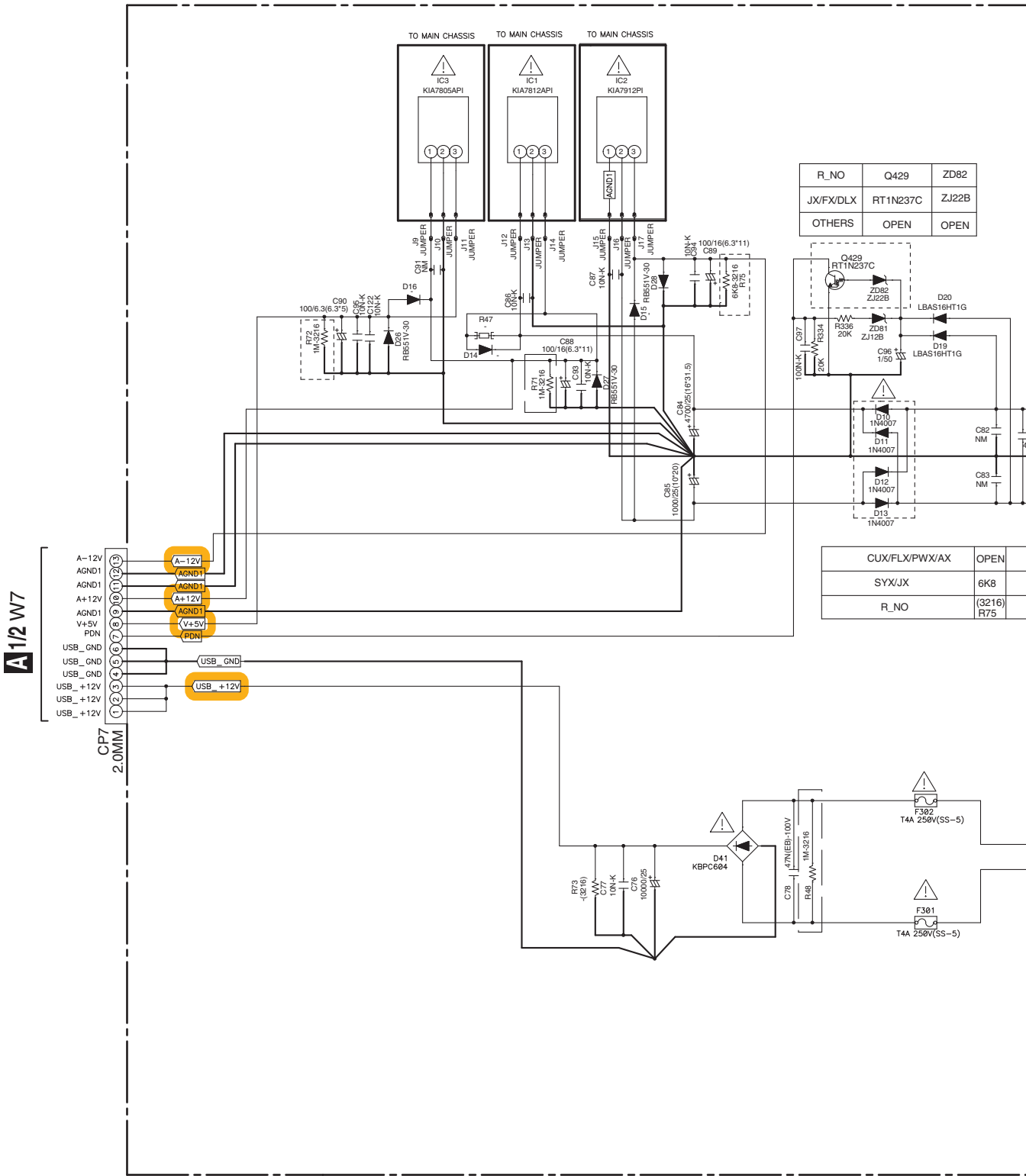


INDICATES SAFETY CRITICAL COMPONENTS.

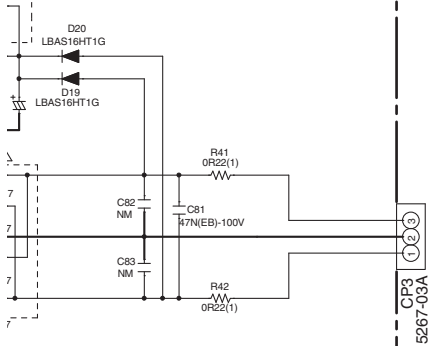
TO REDUCE THE RISK OF ELECTRIC SHOCK, LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS SHALL BE CARRIED OUT (EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT) BEFORE THE APPLIANCE RETURNED TO THE CUSTOMER.

10.28 REG ASSY (VSX-824-K ONLY)

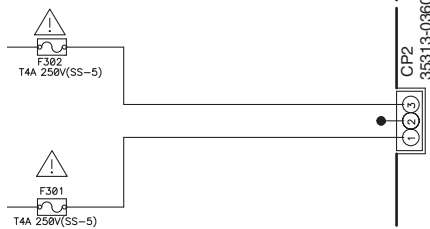
R REG ASSY (7028074512010)



429	ZD82
N237C	ZJ22B
PEN	OPEN



FLX/PWX/AX	OPEN	OPEN
/JX	6K8	1M
.NO	(3216) R75	(3216) R48/R71/R72



FROM MAIN TRANS

FROM MAIN TRANS

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

NOTES

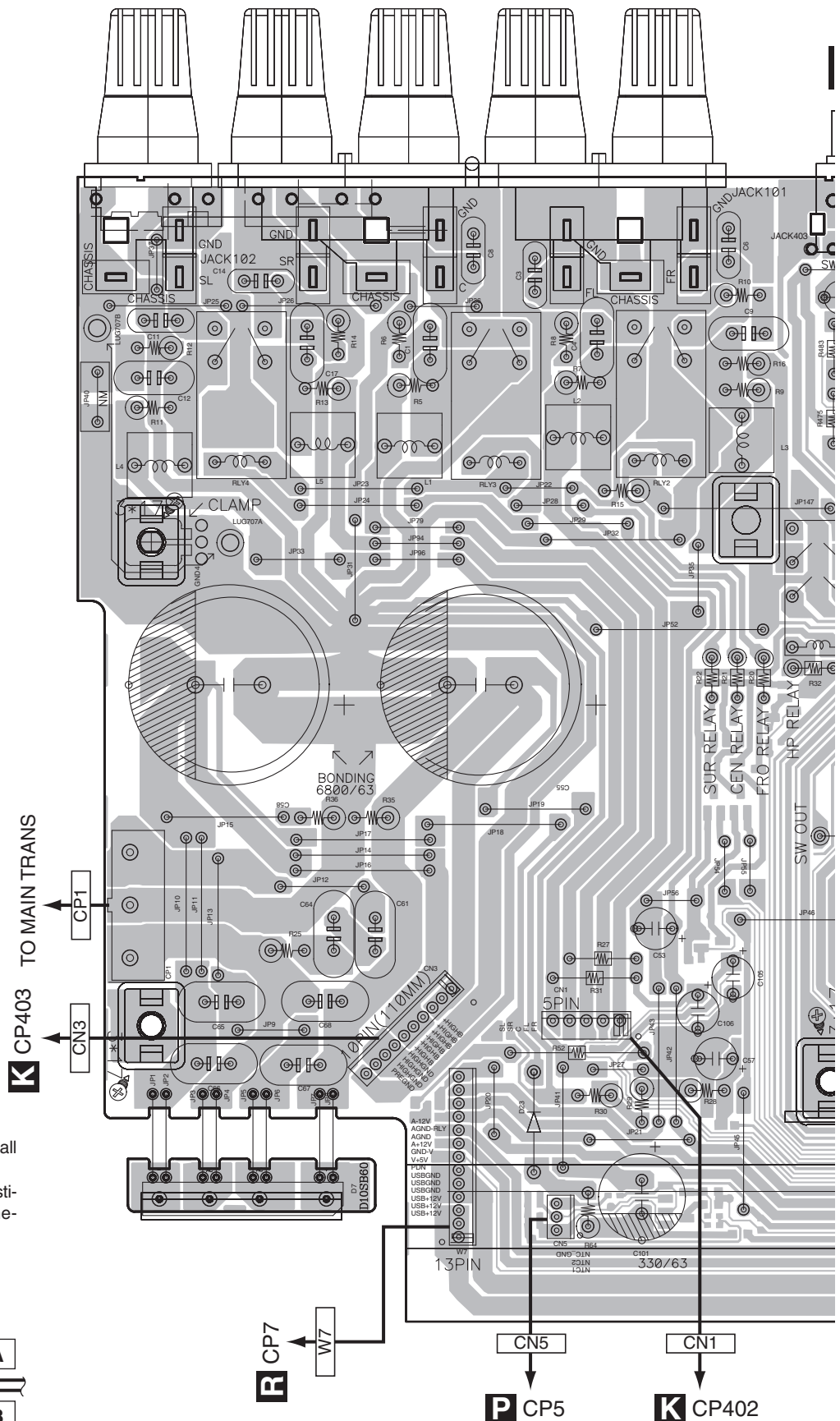
1. Resistor values are indicated in ohms unless otherwise specified
[k = 1.000 m = 1.000.000]
2. Capacitor values are indicated in microfarads unless otherwise specified.
[p = micro-microfarads]
3.  : These resistor are to be segregated from printed wiring board or other accessible parts.
CAUTION
Safety precaution to be followed during servicing

- 1] Since those parts marked with are critical parts for safety, use only the one described in the parts list
- 2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

11. PCB CONNECTION DIAGRAM

11.1 MAIN ASSY (VSX-824-K)

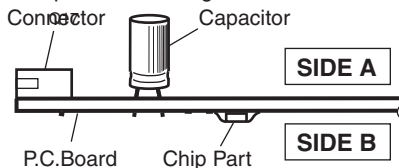
SIDE A



NOTE FOR PCB DIAGRAMS :

1. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

2. View point of PCB diagrams.



A

A

A MAIN ASSY



55

SIDE B

A

B

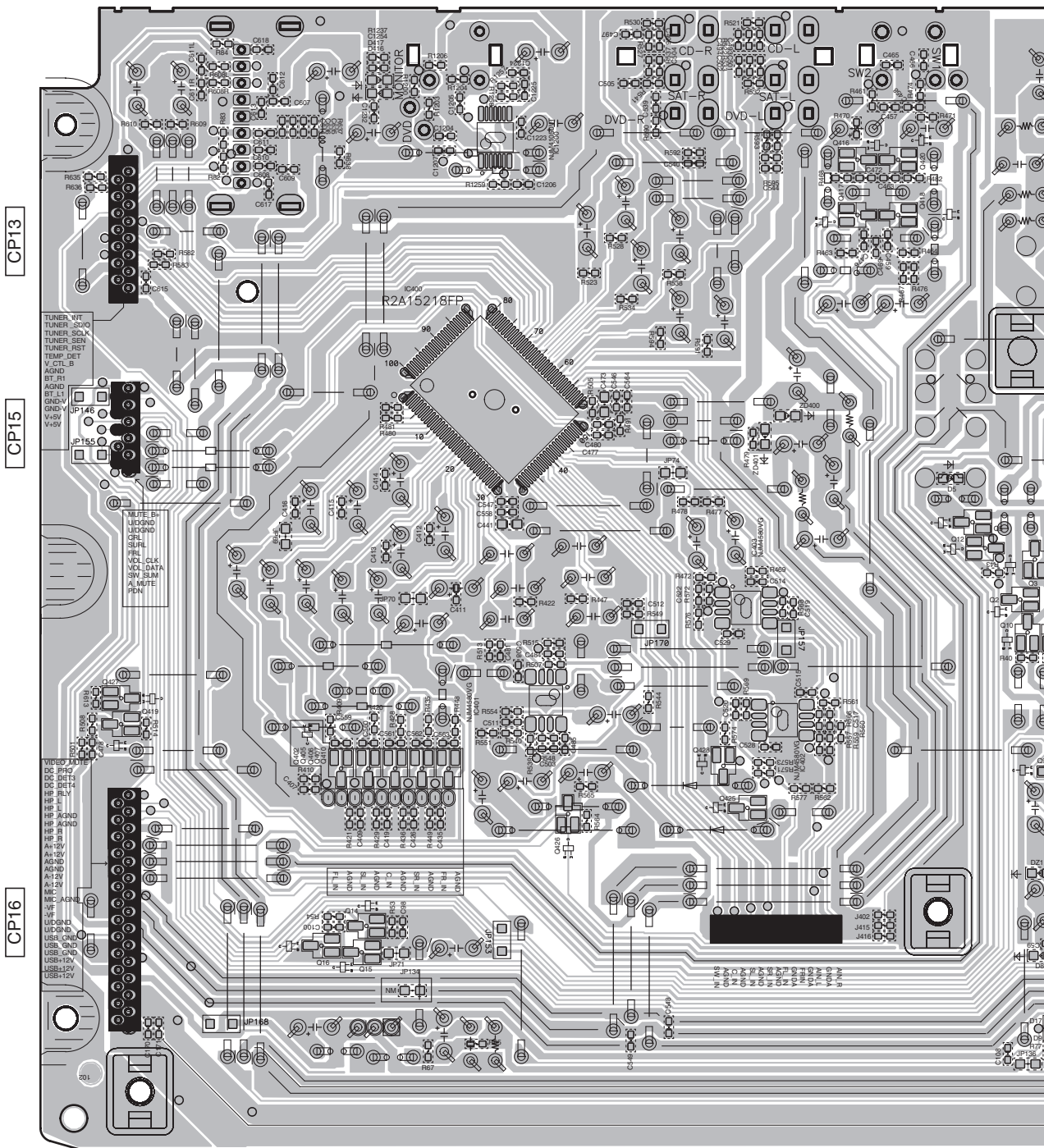
C

D

E

F

A MAIN ASSY



CN2

CN110

A

SIDE B

A

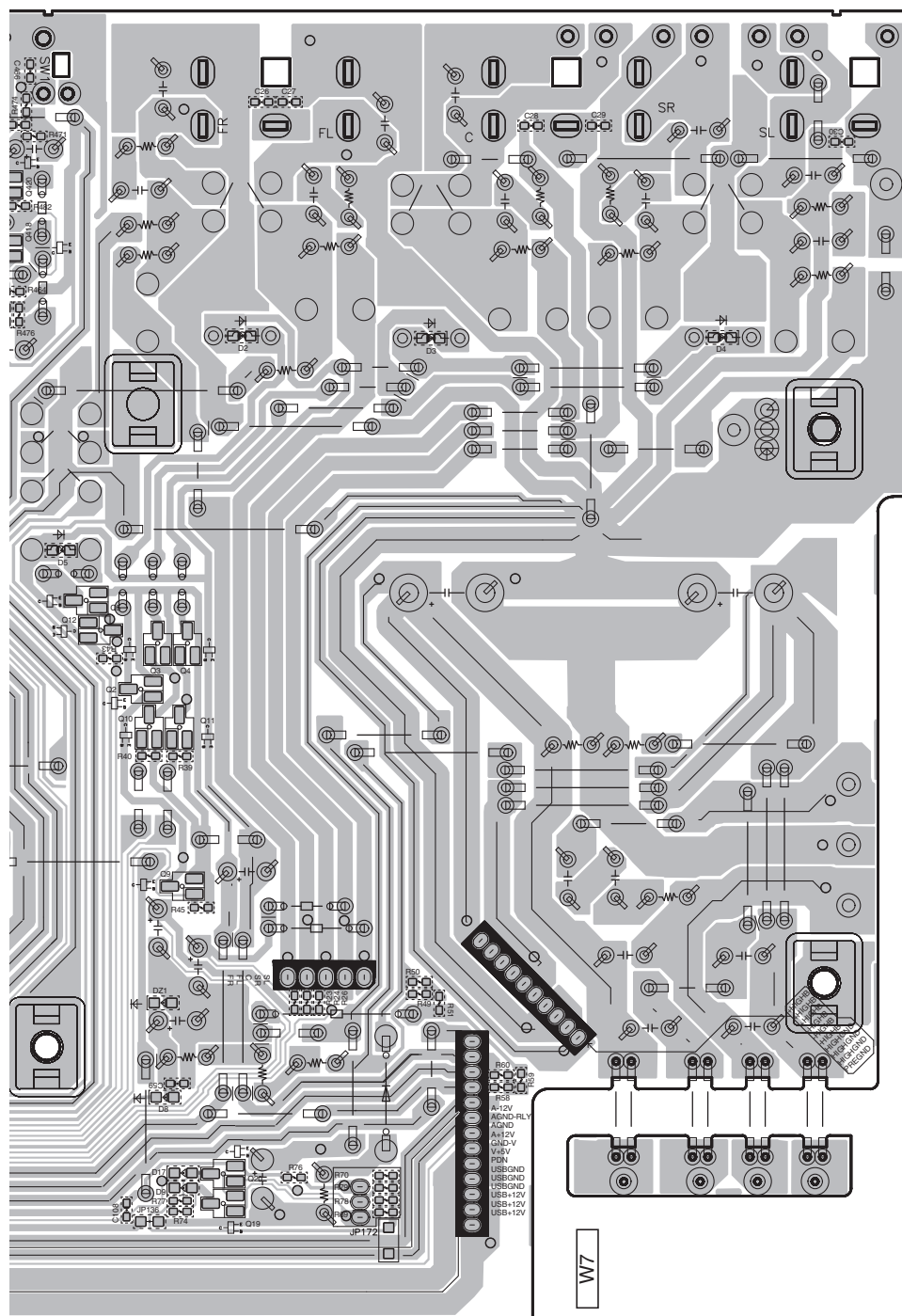
B

C

D

F

F



CP1

CNI3

N7

CN1

CN5

IC1200	
Q416	Q420

Q417 Q418

IC400

Q5
Q12 Q3
Q4
Q2
IC403 Q10
Q11

Q427	IC401	
Q419	IC402	
Q402		
Q405		
Q406	Q428	Q9
Q407		
Q410	Q426	
	Q425	

Q14
Q15
Q16

Q20

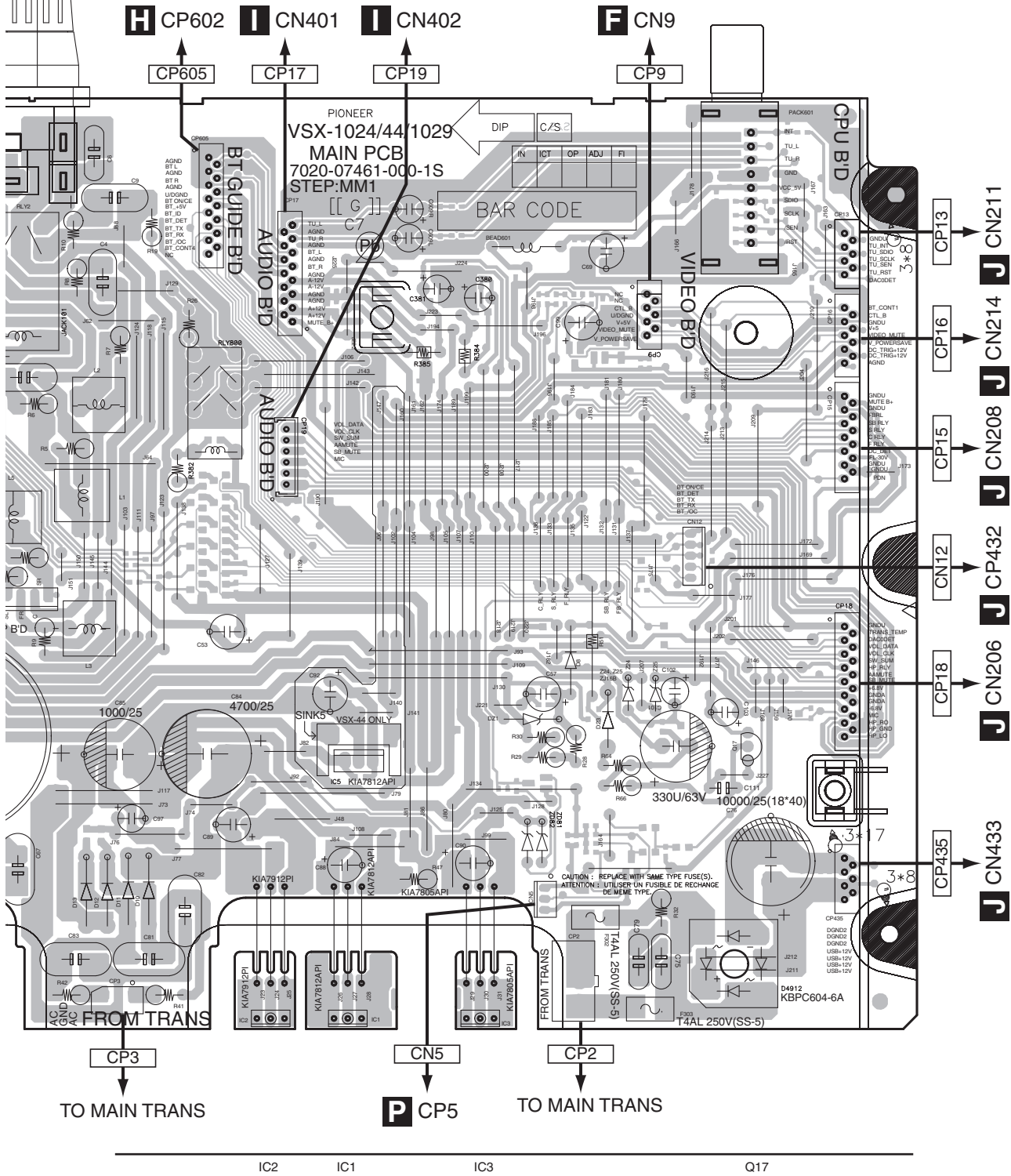
Q19

VSX-824-K

SIDE A

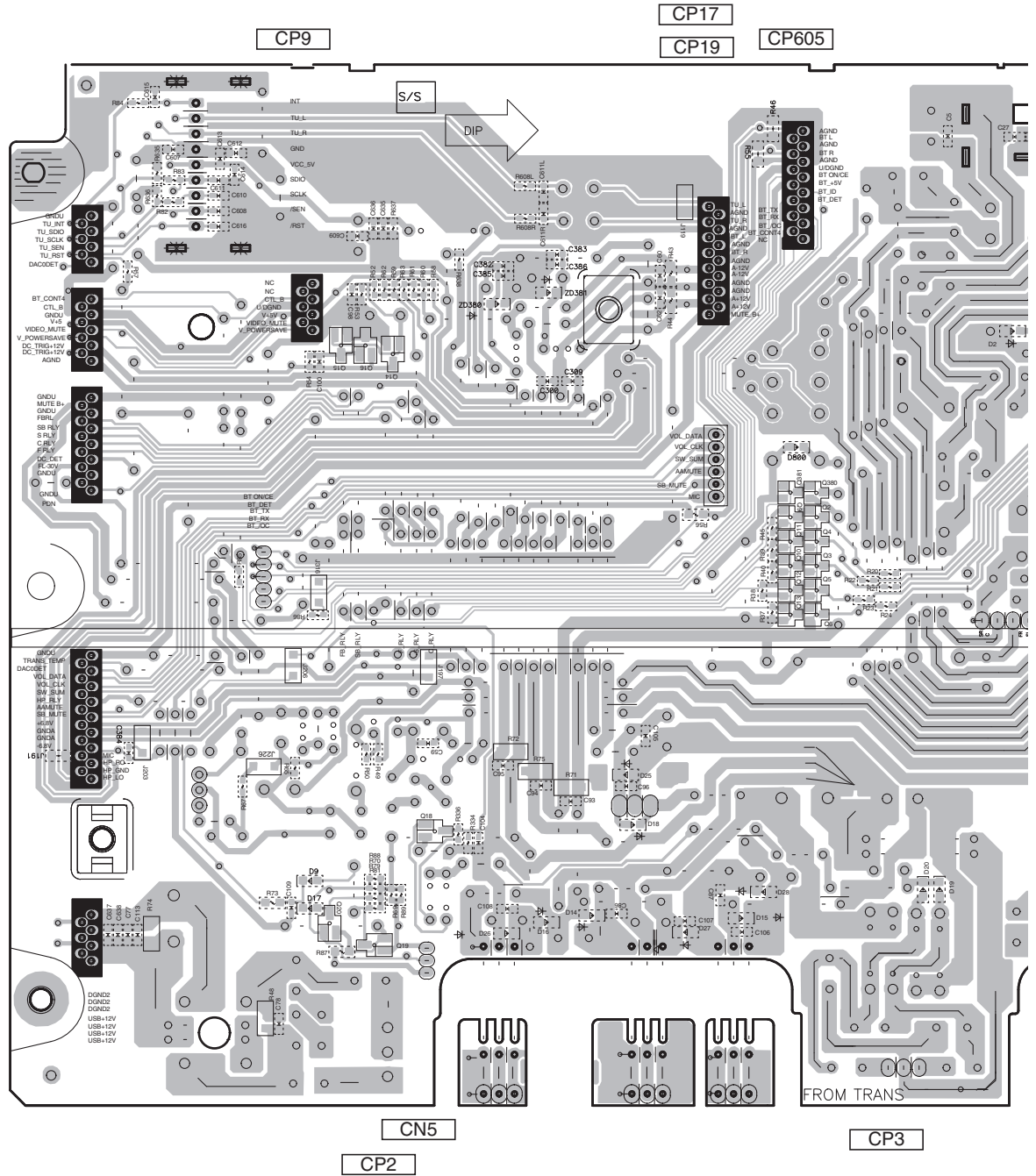
A

A MAIN ASSY



SIDE B

A MAIN ASSY

Q15 Q16 Q14
Q20 Q18Q381 Q380
Q9 Q2
Q13 Q6

VSX-824-K

A

60

SIDE B

A

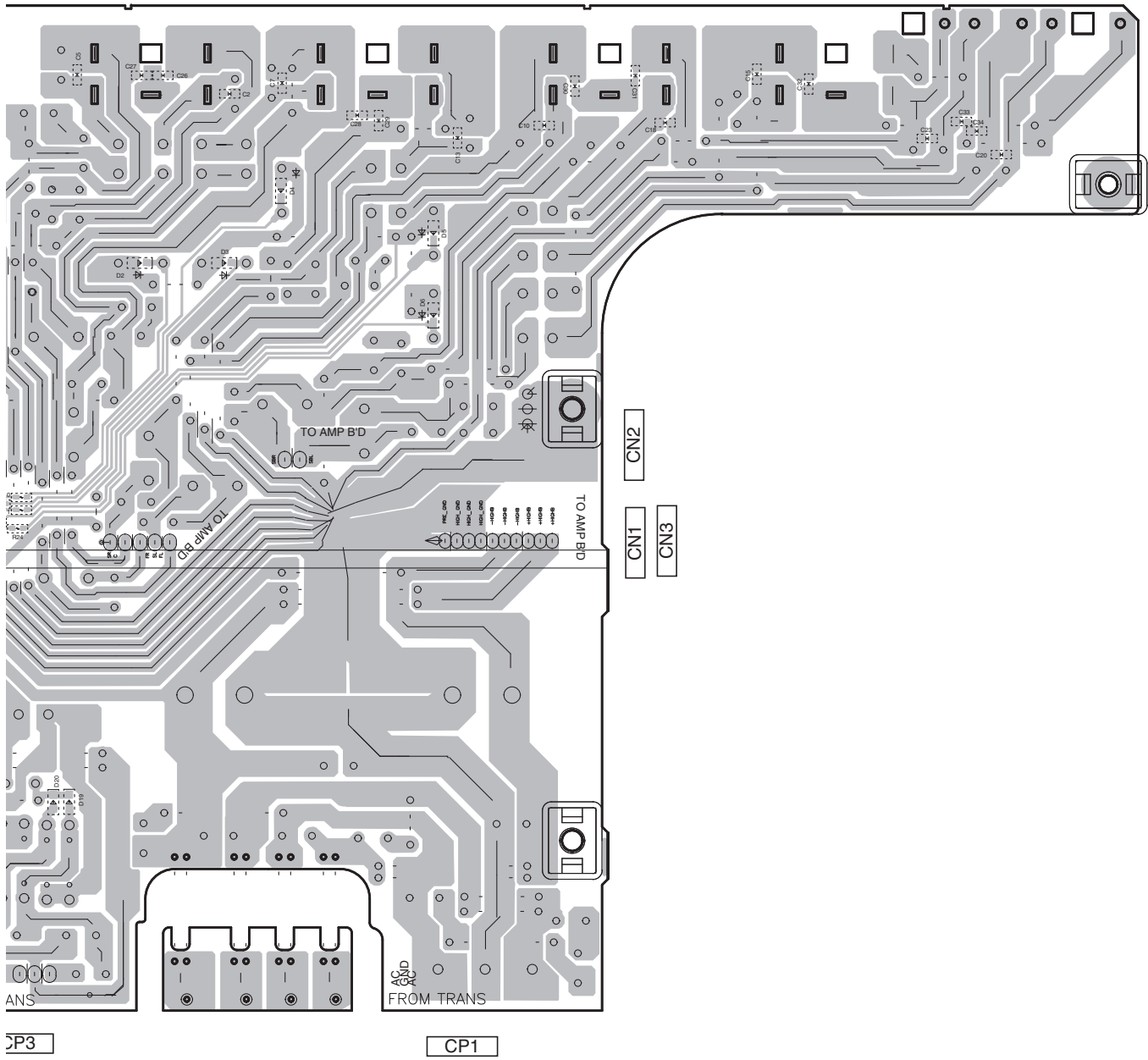
B

C

D

E

F



SIDE A**B DMAIN ASSY**

CP3601

CP3602

C CN2009

CX101

VSX-1024-K, VSX-1029-K, VSX-44

CN1801

CN1803

VSX-

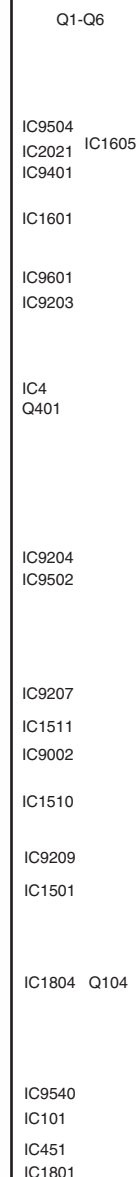
GR2002

CN100

D CP2003

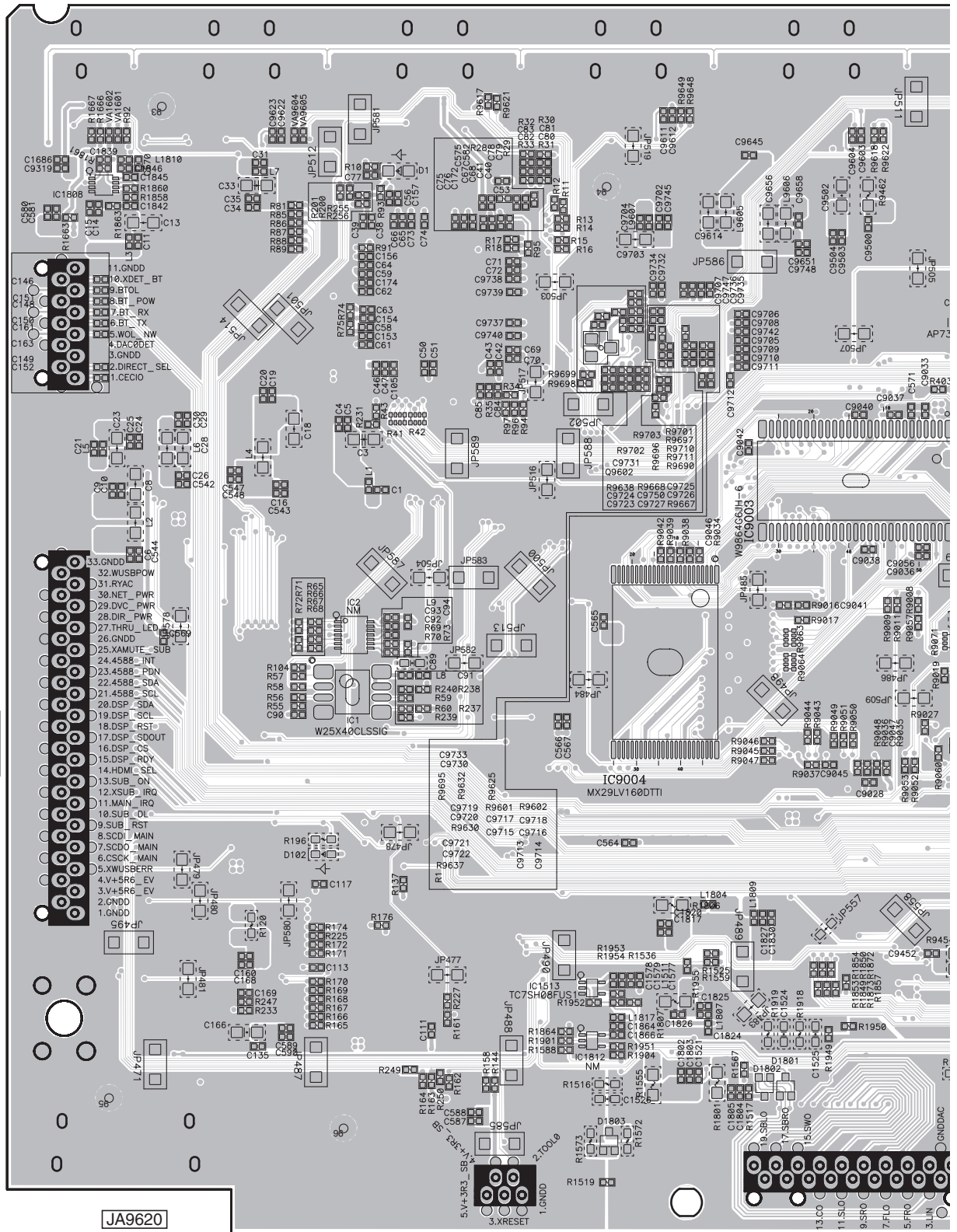
E CN109

VSX-824-K



SIDE B

B DMAIN ASSY



VSX-824-K [CN1803]

[CN180]

VSX-824-K

64

SIDE B

A

B

C

D

E

F

CN9503

CN9202

CN1805

CN9501

IC1809

IC1808
IC1810

IC9511

Q9602

IC9003

IC9205

IC2

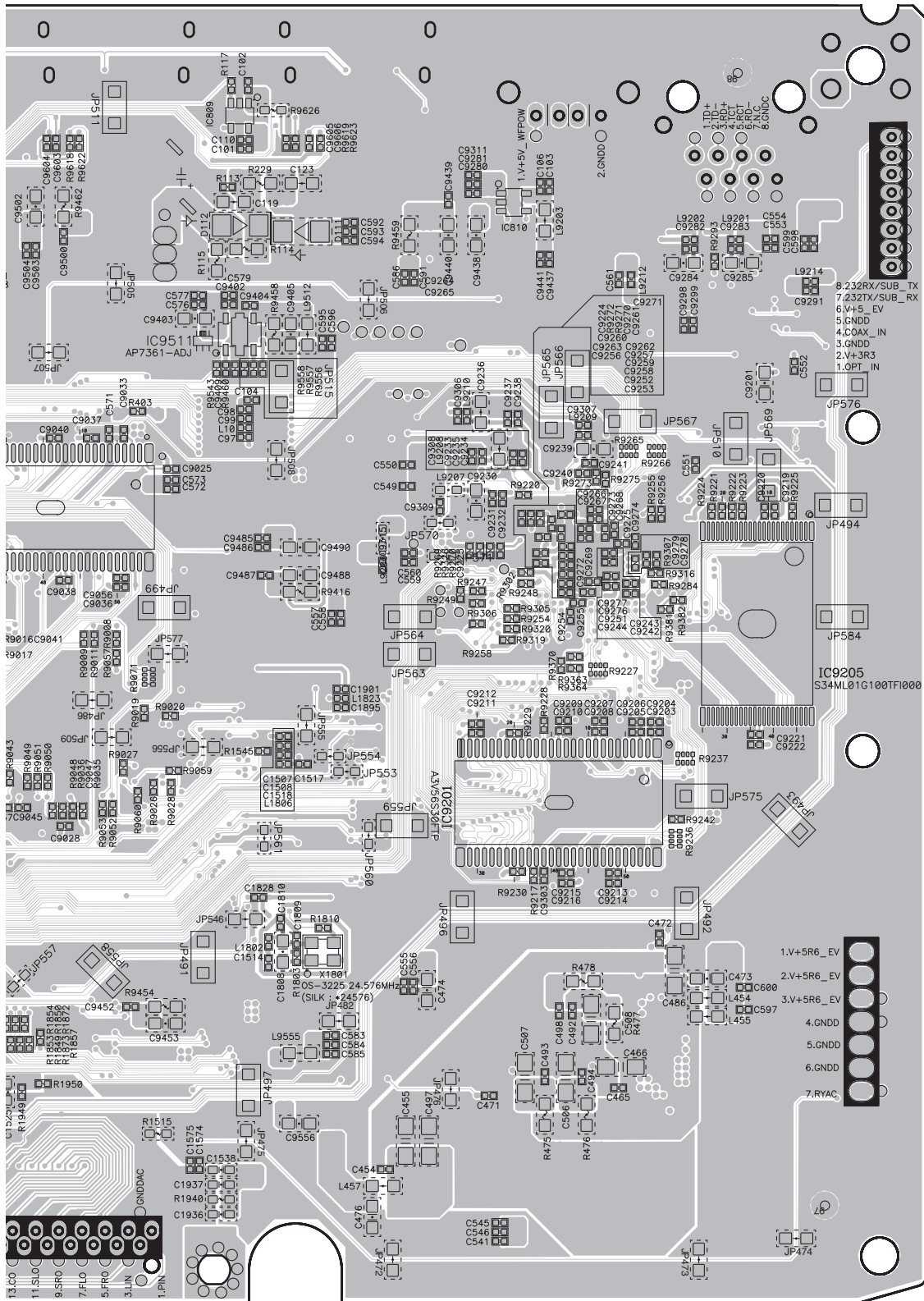
IC9004

IC1

IC9201

IC1513

IC1812



803

CN1801

VSX-1024-K,
VSX-1029-K,
VSX-44

VSX-824-K

B

65

A

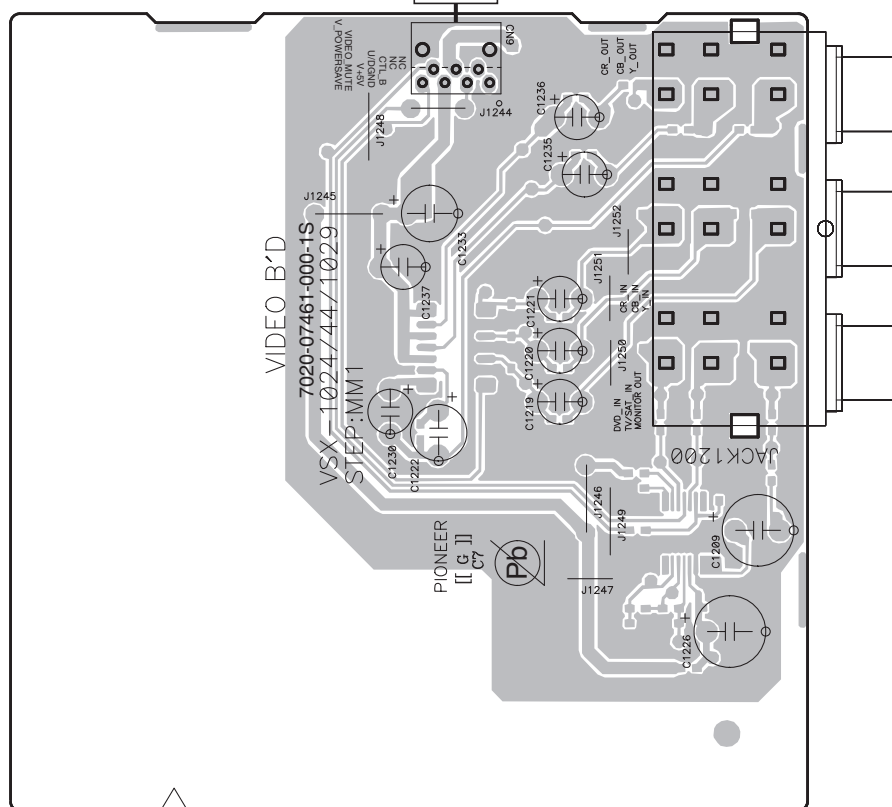
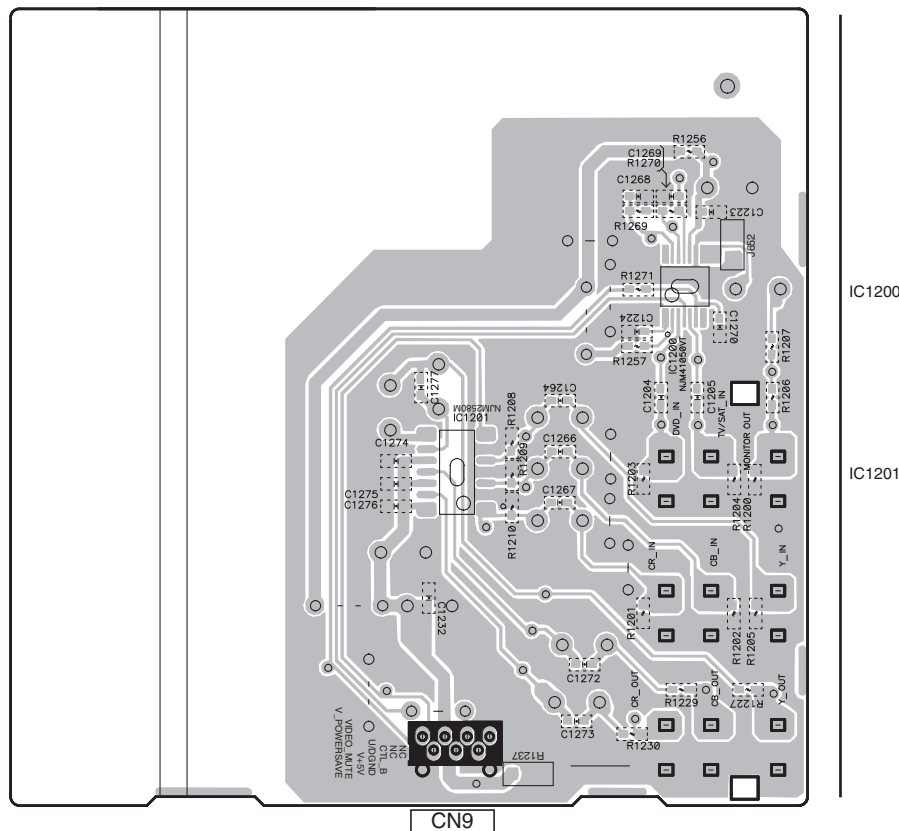


□



SIDE A

CN9

**F VIDEO ASSY**

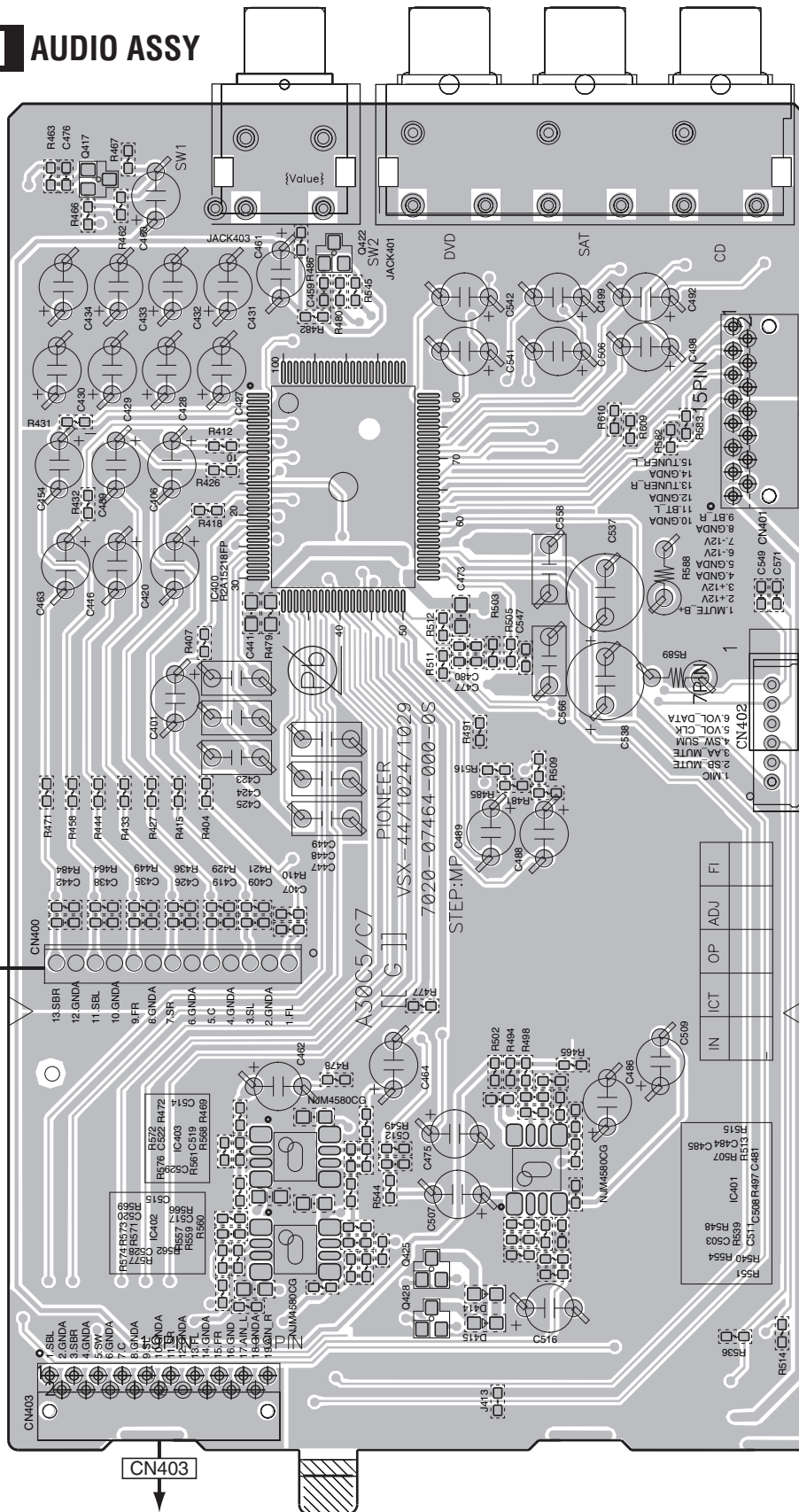
VSX-824-K

11.8 AUDIO ASSY (VSX-1024-K, VSX-1029-K, VSX-44 ONLY)

SIDE A

SIDE A

AUDIO ASSY



K CP401

D CP438

A CP17

A CP19

Q417

Q422

IC400

IC403 IC401

IC402

Q425

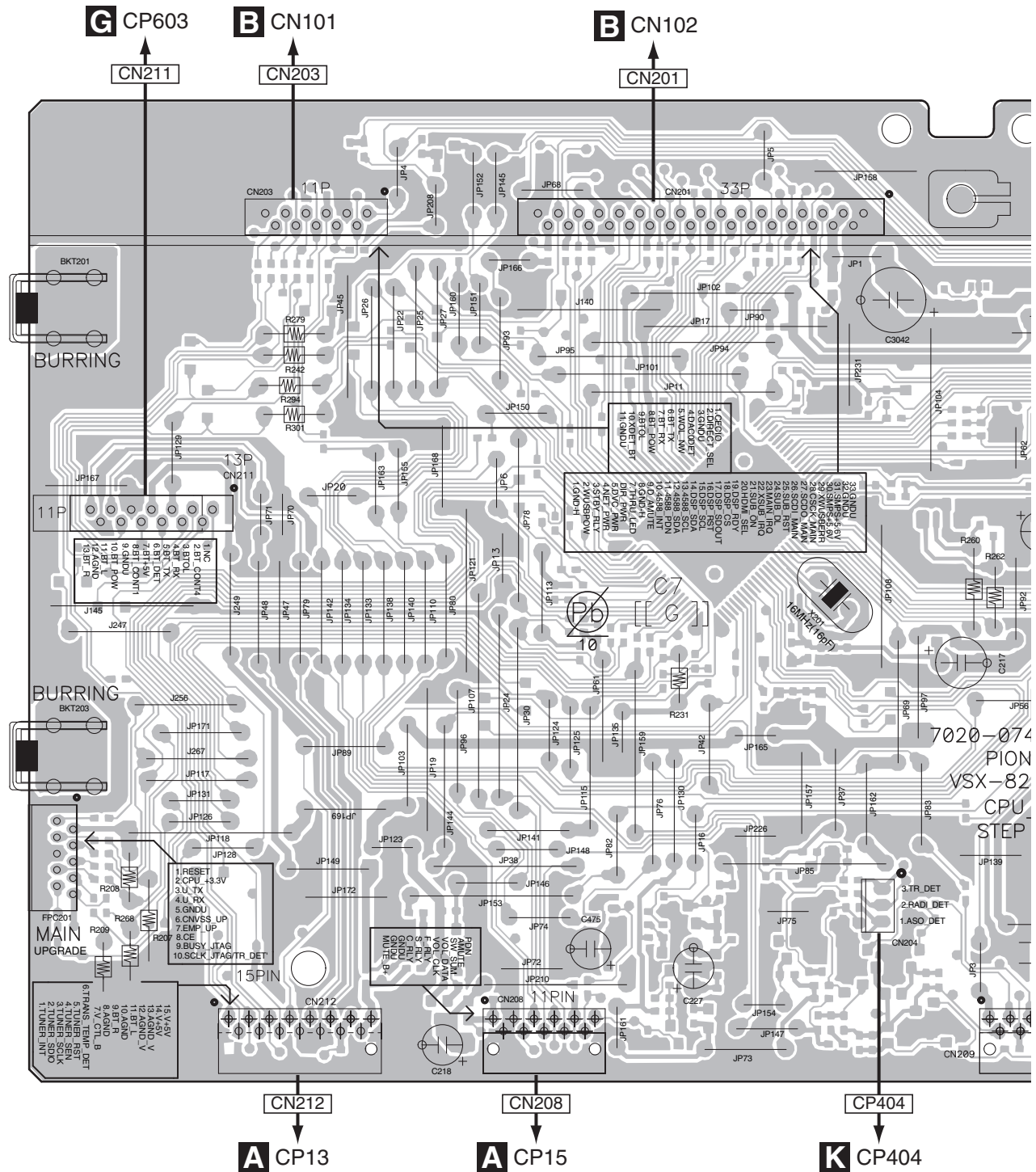
Q428

VSX-824-K

11.9 CPU ASSY (VSX-824-K)

SIDE A

J CPU ASSY



J

SIDE A

A

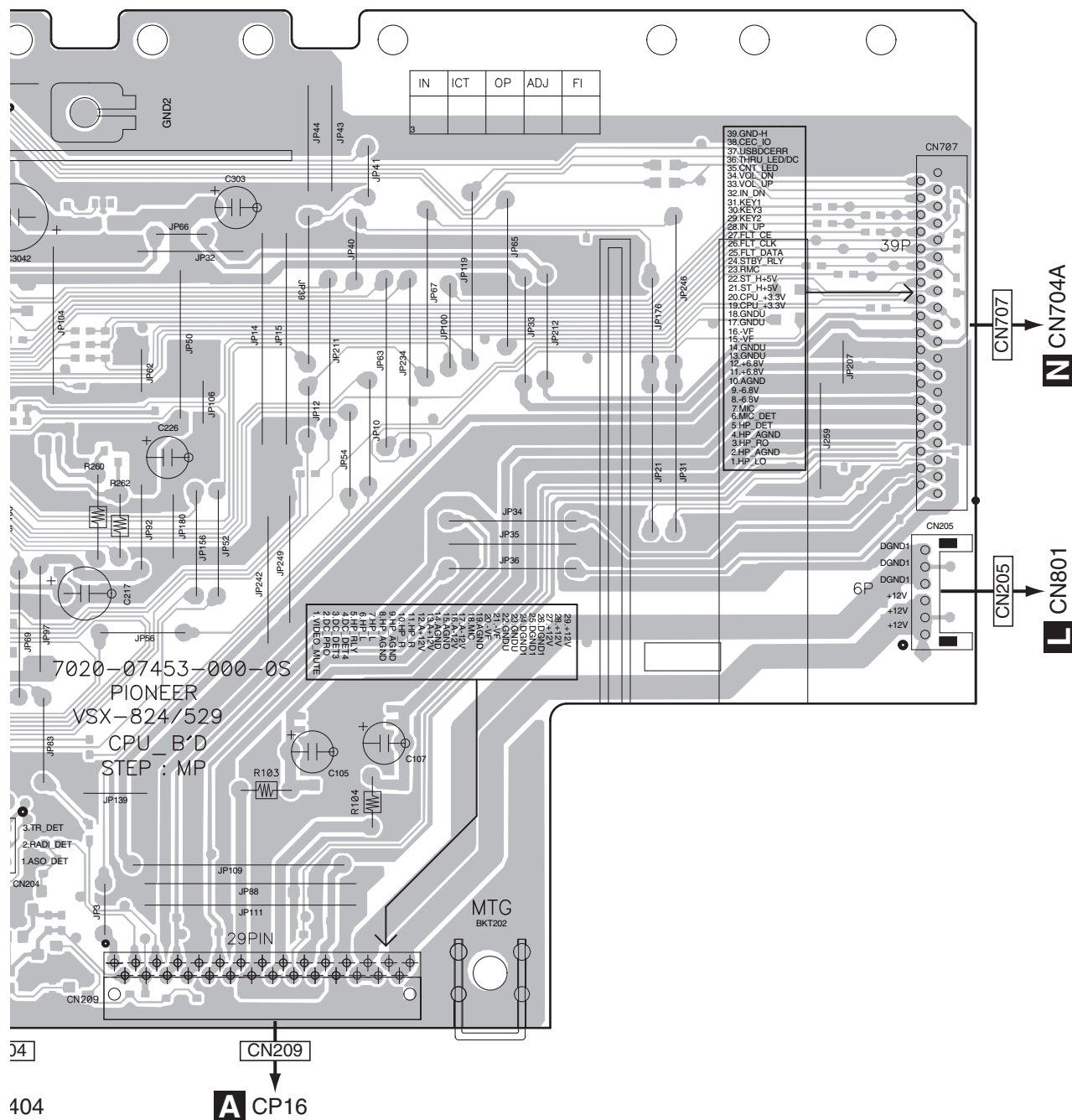
B

C

D

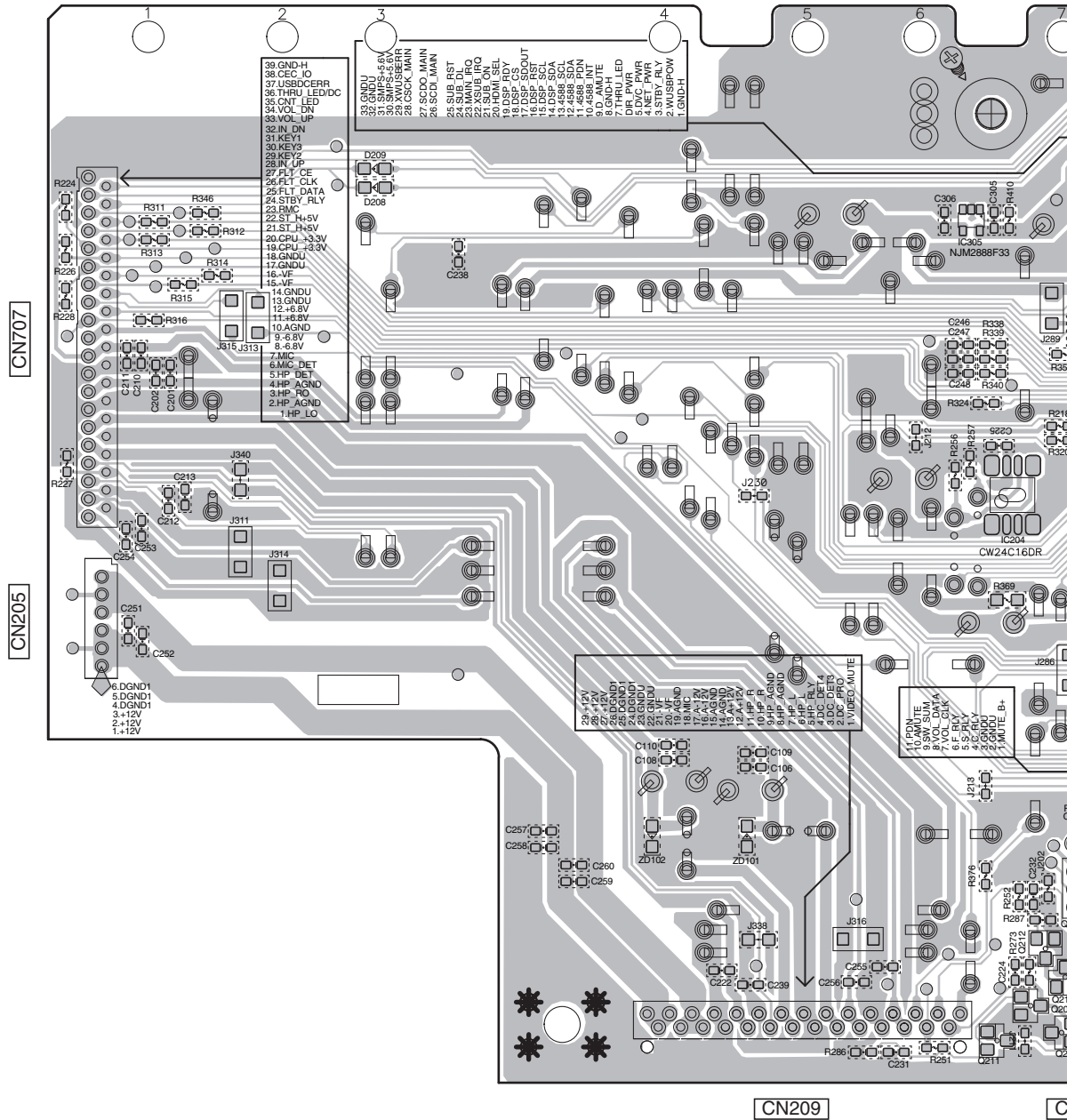
E

F



SIDE B

J CPU ASSY



IC305 IC204
Q212
Q211 Q209 Q210
Q211

J

11.10 CPU ASSY (VSX-1024-K, VSX-1029-K, VSX-44)

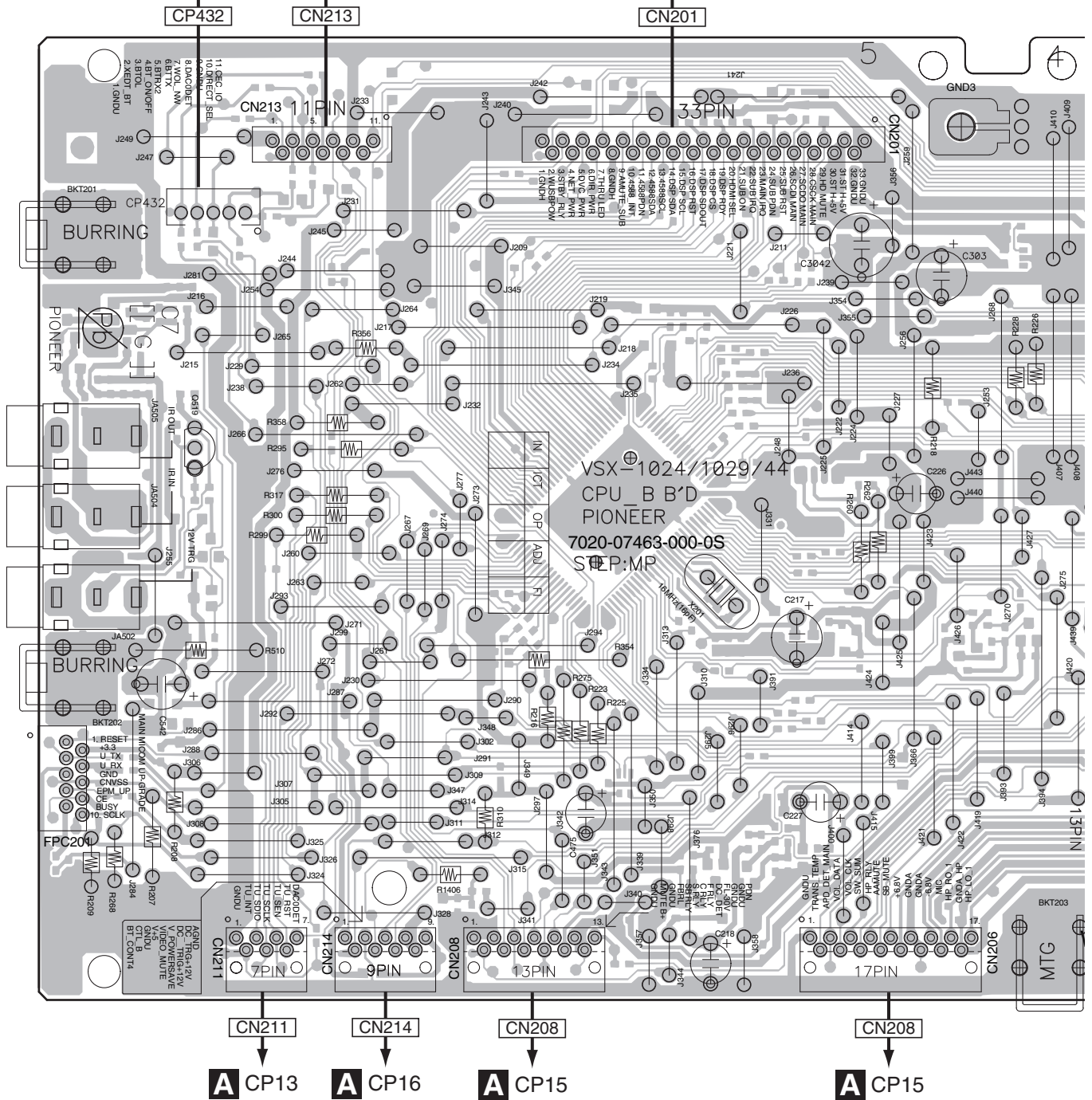
SIDE A

J CPU ASSY

A CN12

B CN101

B CN102

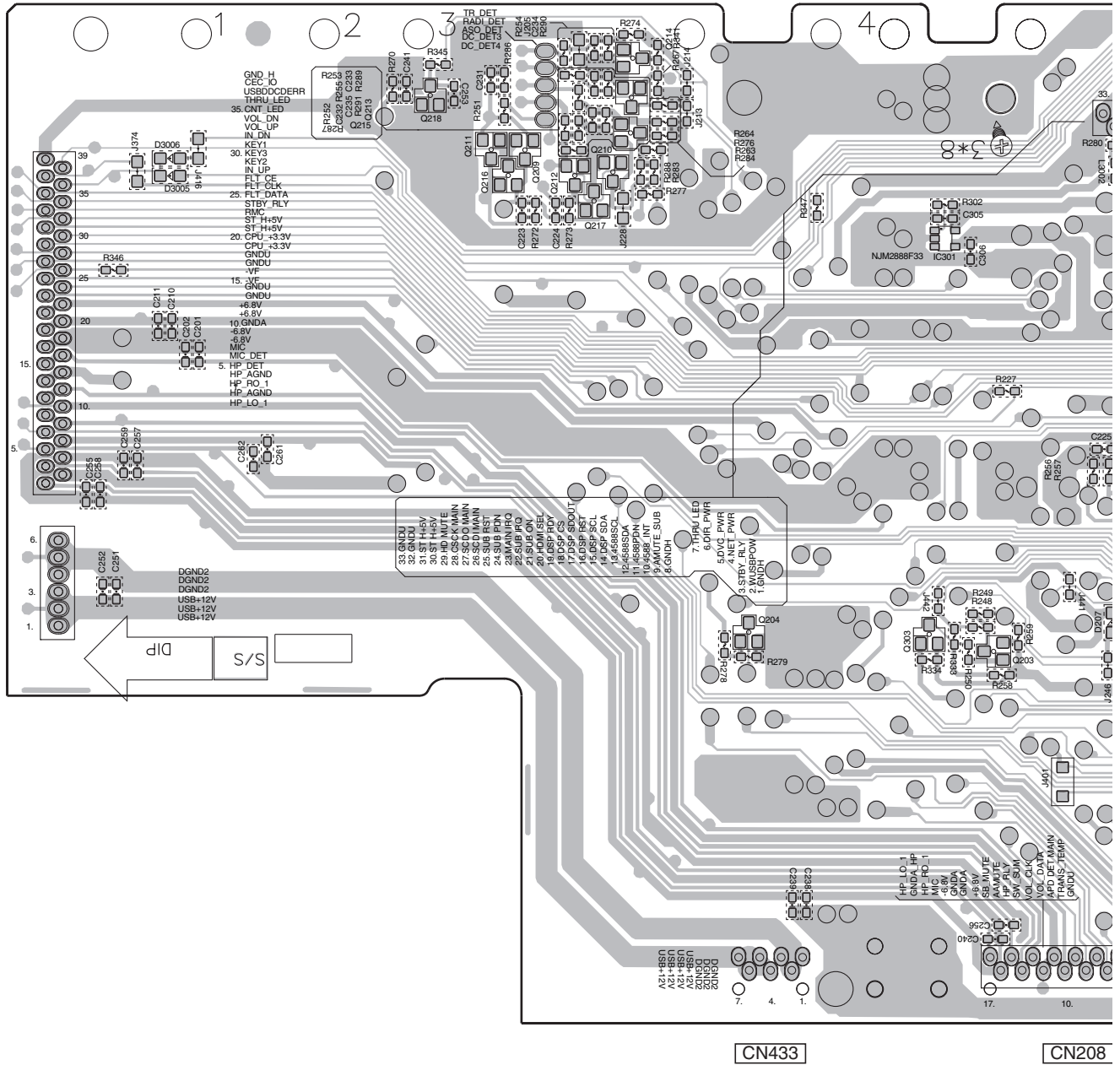


Q519

VSX-824-K

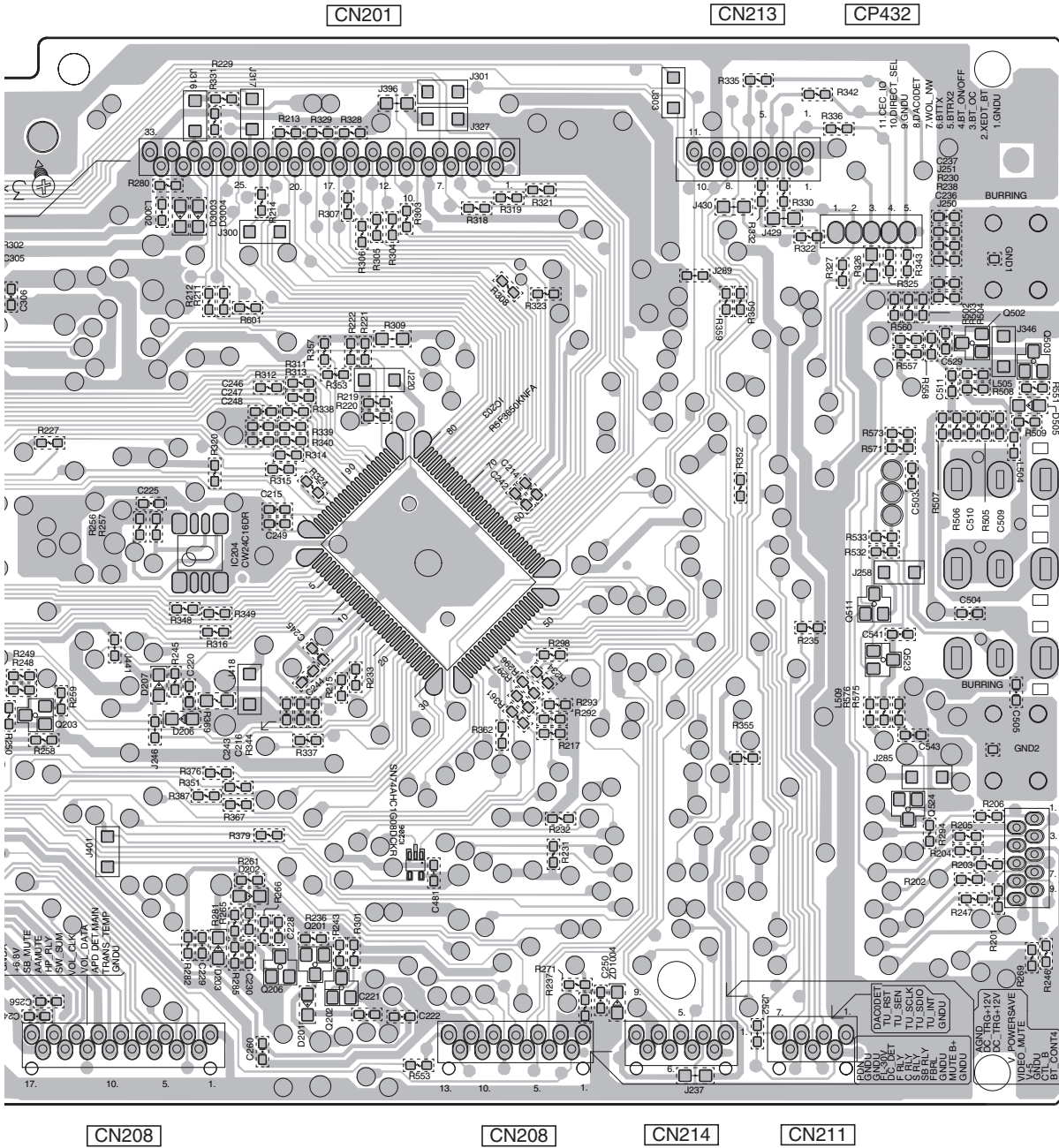
SIDE B

J CPU ASSY



Q218 Q211 Q209 Q214 Q204 IC301 Q203
Q216 Q212 Q210 Q213 Q217 Q215

VSX-824-K



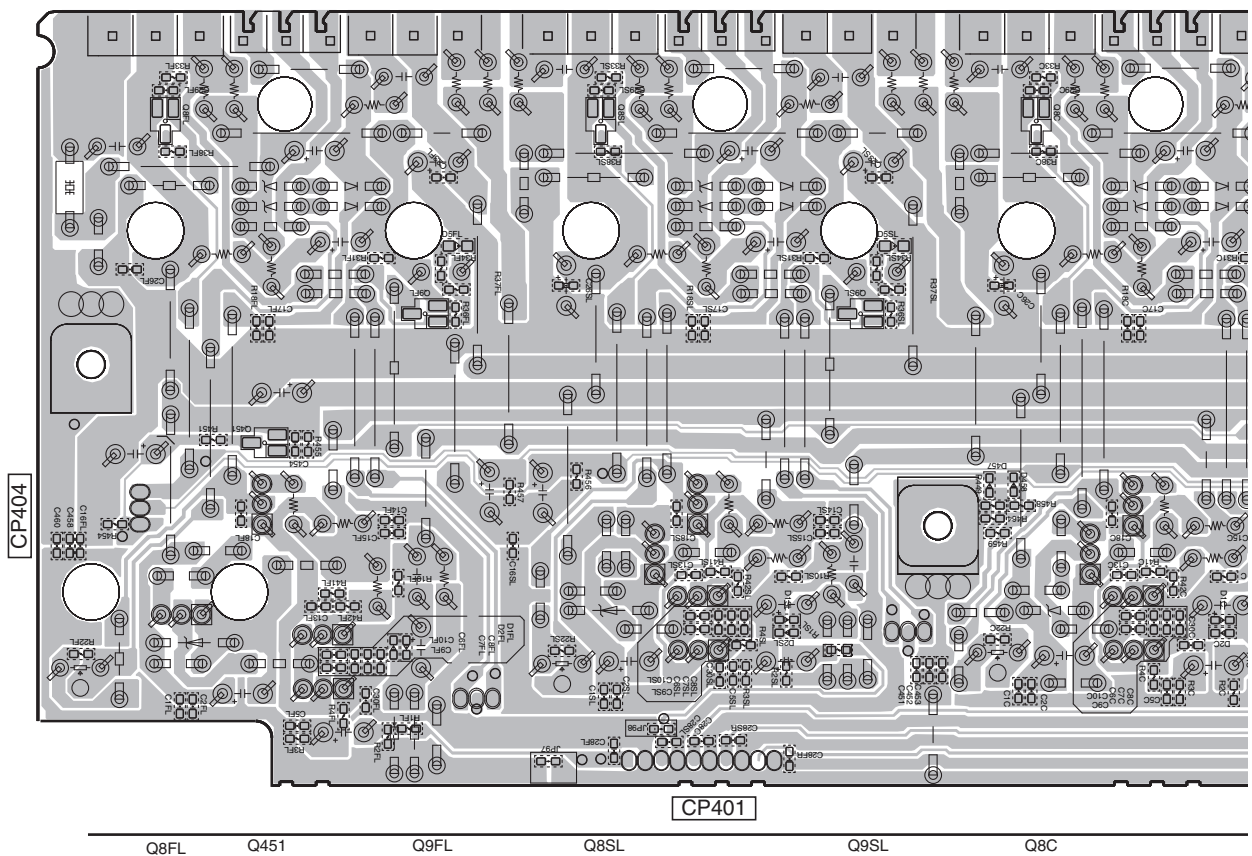
Q203 IC204 Q206 Q201 Q202 IC203 Q511 Q524 Q502 Q503

SIDE A

CP401 → **A** CN2



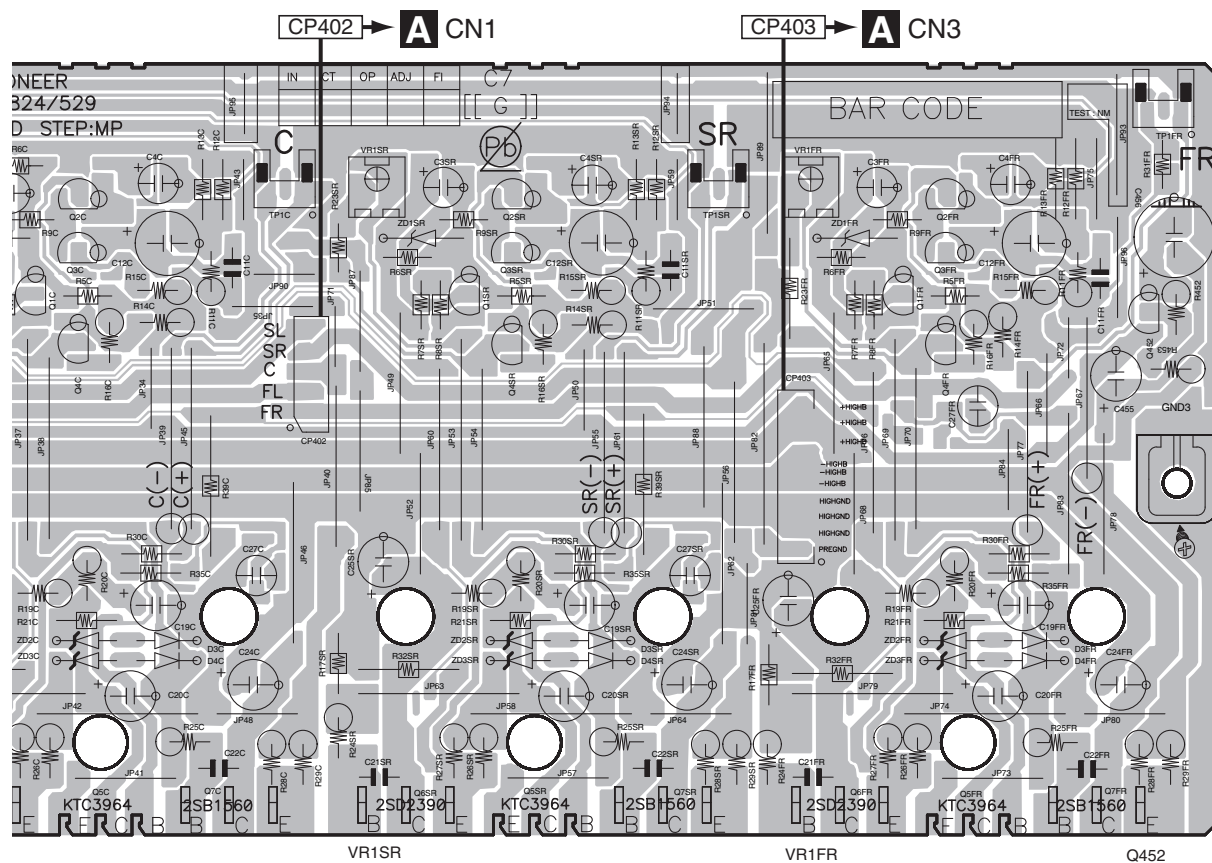
SIDE B



K

80

VSX-824-K



SIDE A

A

B

C

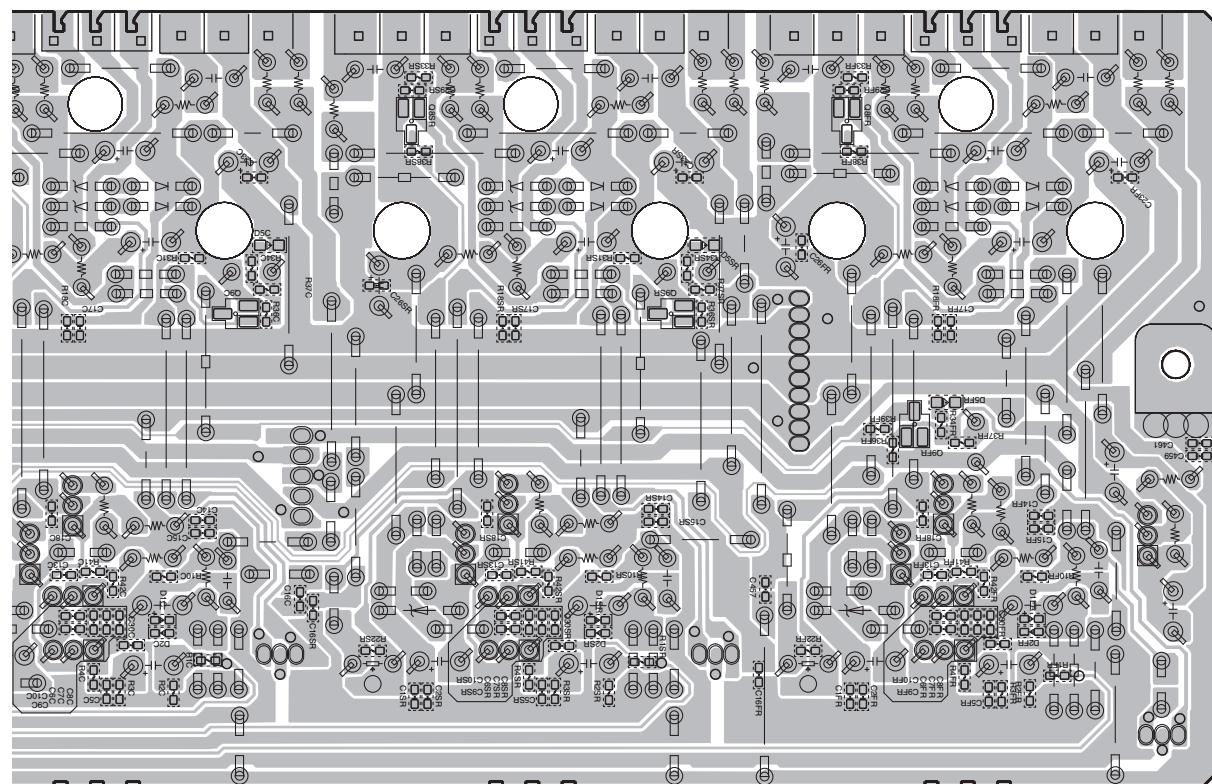
Q1C Q2C Q2SR Q3C Q3SR Q1FR Q2PR Q4C Q4SR Q3FR Q4FR Q5C Q5C Q7C Q6SR Q8SR Q9SR Q7SR Q6FR Q8FR Q9FR Q1FR Q3FR Q4FR Q5FR Q7FR

SIDE B

D

E

F



CP402

CP403

Q9C

Q8SR

Q9SR

Q8FR Q9FR

VSX-824-K

K

81

11.12 AMP7 ASSY (VSX-1024-K, VSX-1029-K, VSX-44)

SIDE A

A

B

C

D

E

F

K

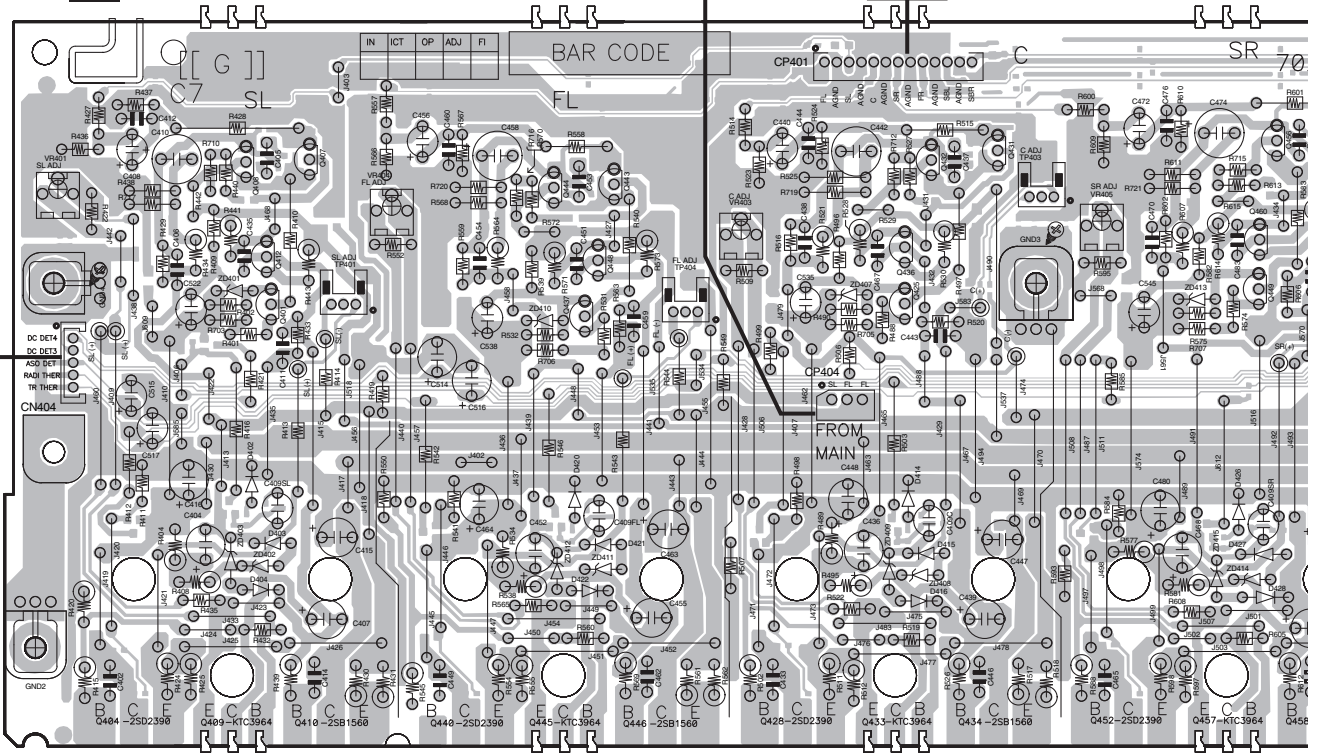
AMP7 ASSY

CN1

CN400

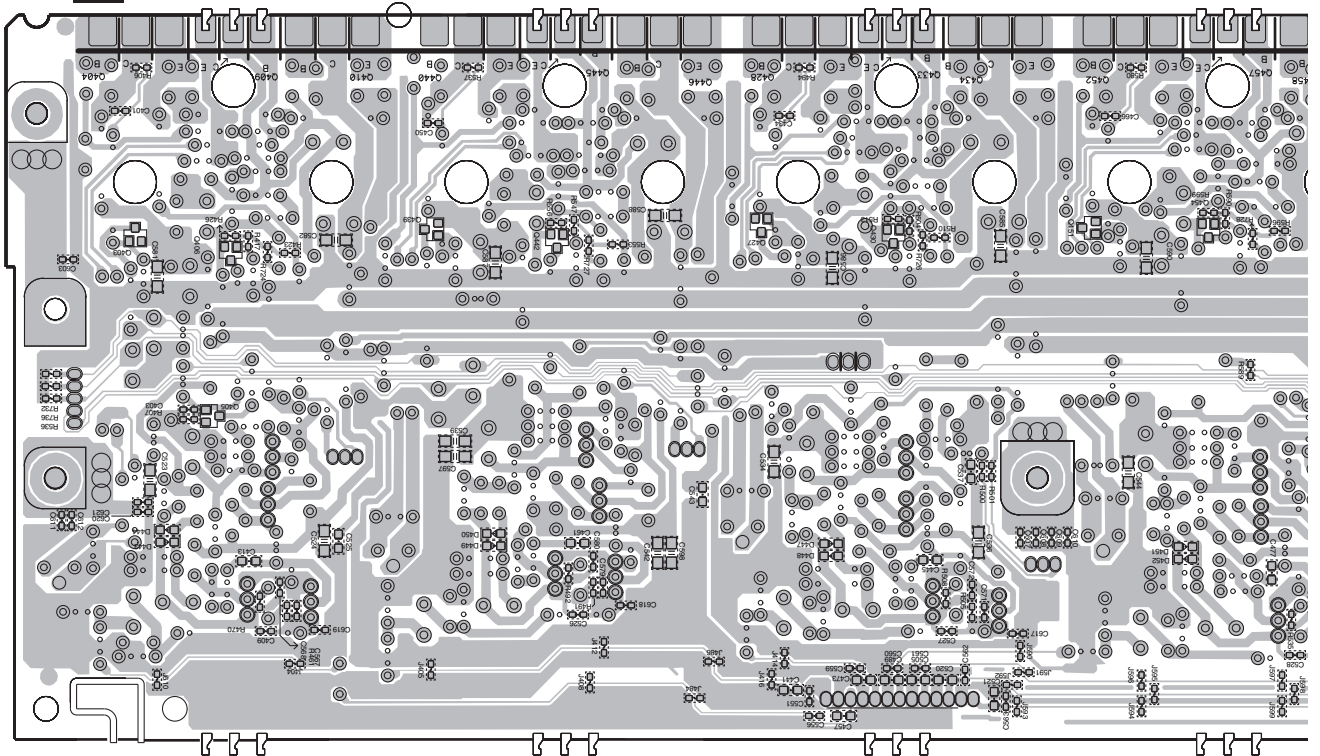
CP404

CP401



SIDE B

AMP7 ASSY



Q403 Q405 Q406

Q439

Q442

Q427

Q430

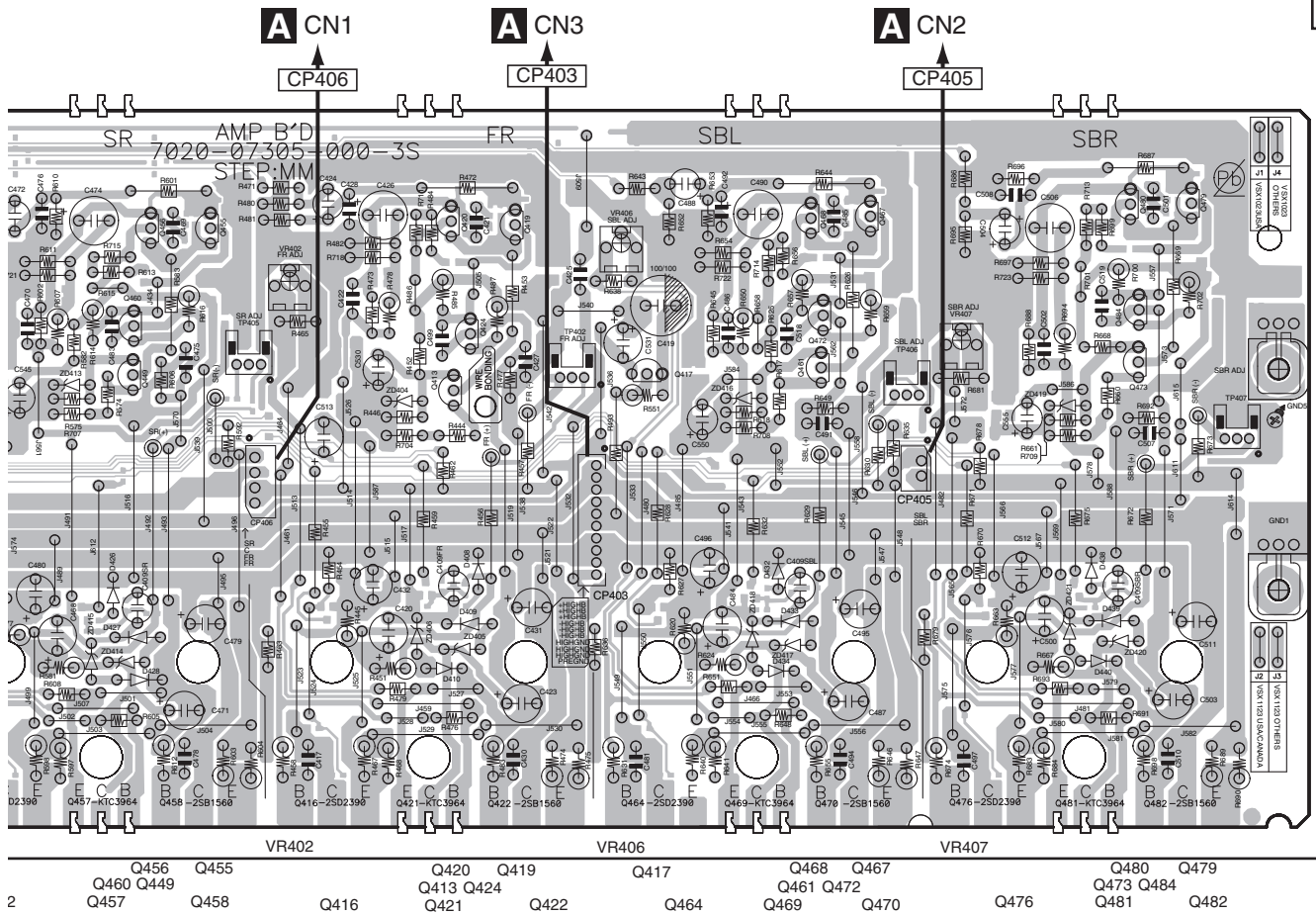
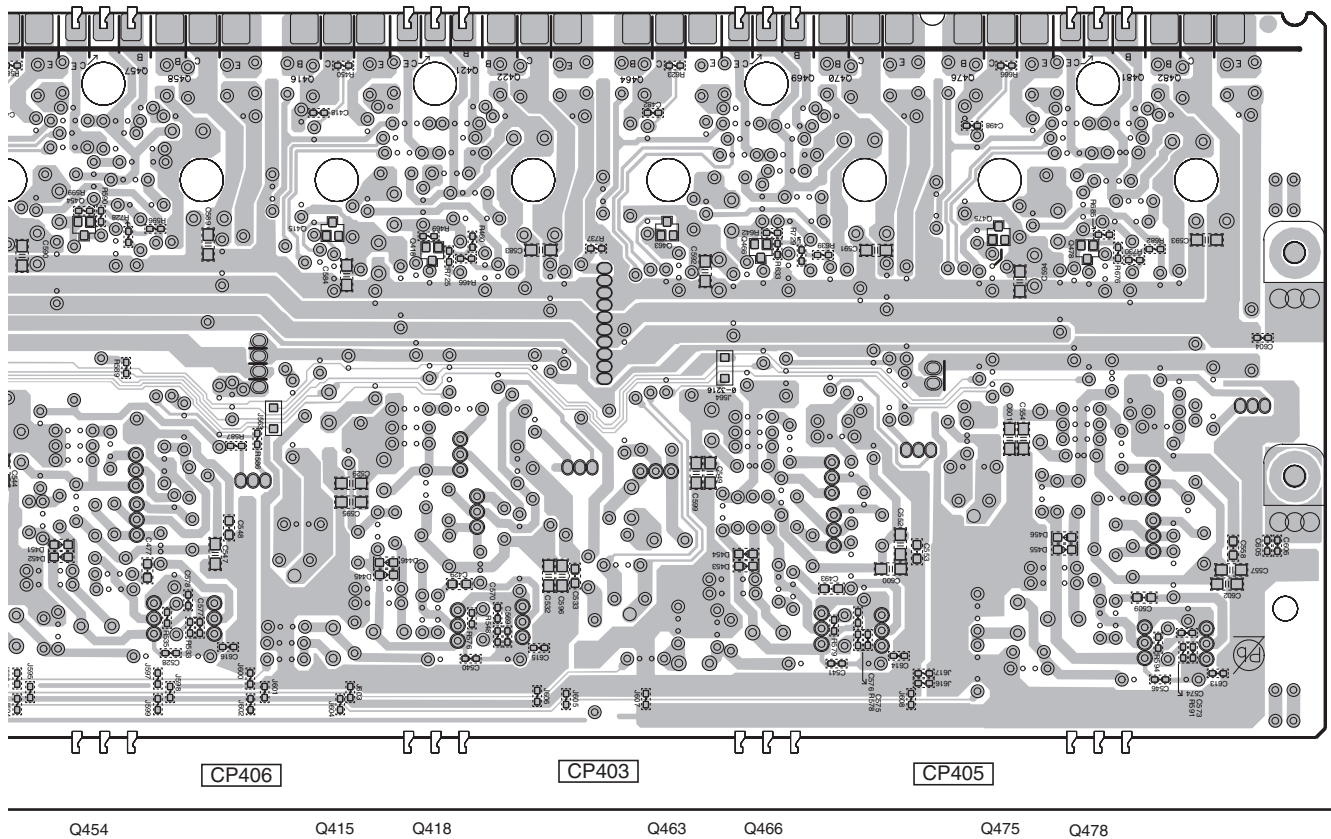
Q451

Q454

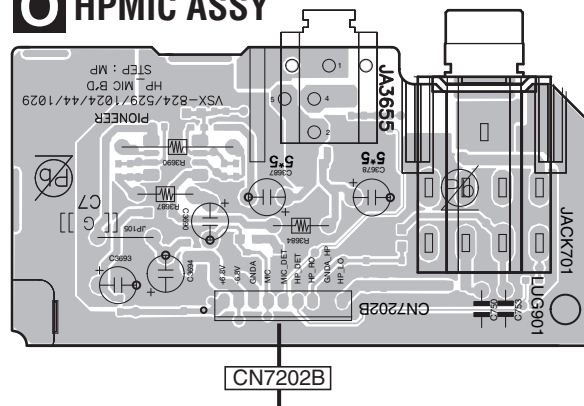
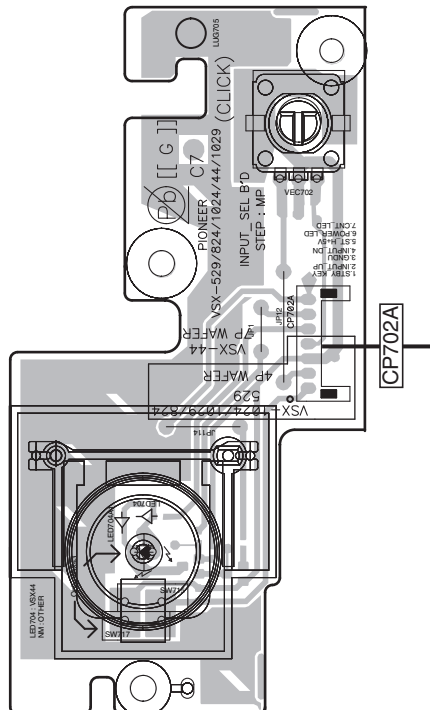
CP404

CP401

VSX-824-K

SIDE A**SIDE B**

SIDE A

N FRONT ASSY**M INSEL ASSY**

SIDE B

A

N FRONT ASSY

Q703

Q709 Q704

Q708 Q706

CN704A

CN107

B

C

D

JACK8203

CN803

CN801

L FHDMI ASSY

Q7504

CP3601

E

F

L N

86

VSX-824-K

SIDE B

A

IC701

Q701
Q707

CP703

B

C

CN702

CN104

O HPMIC ASSY

IC3652

CN7202B

M INSEL ASSY

CP702A

Q705
Q710

TACT SW
VSX44:SW717
OTHERS:SW715

D

E

F

M N O

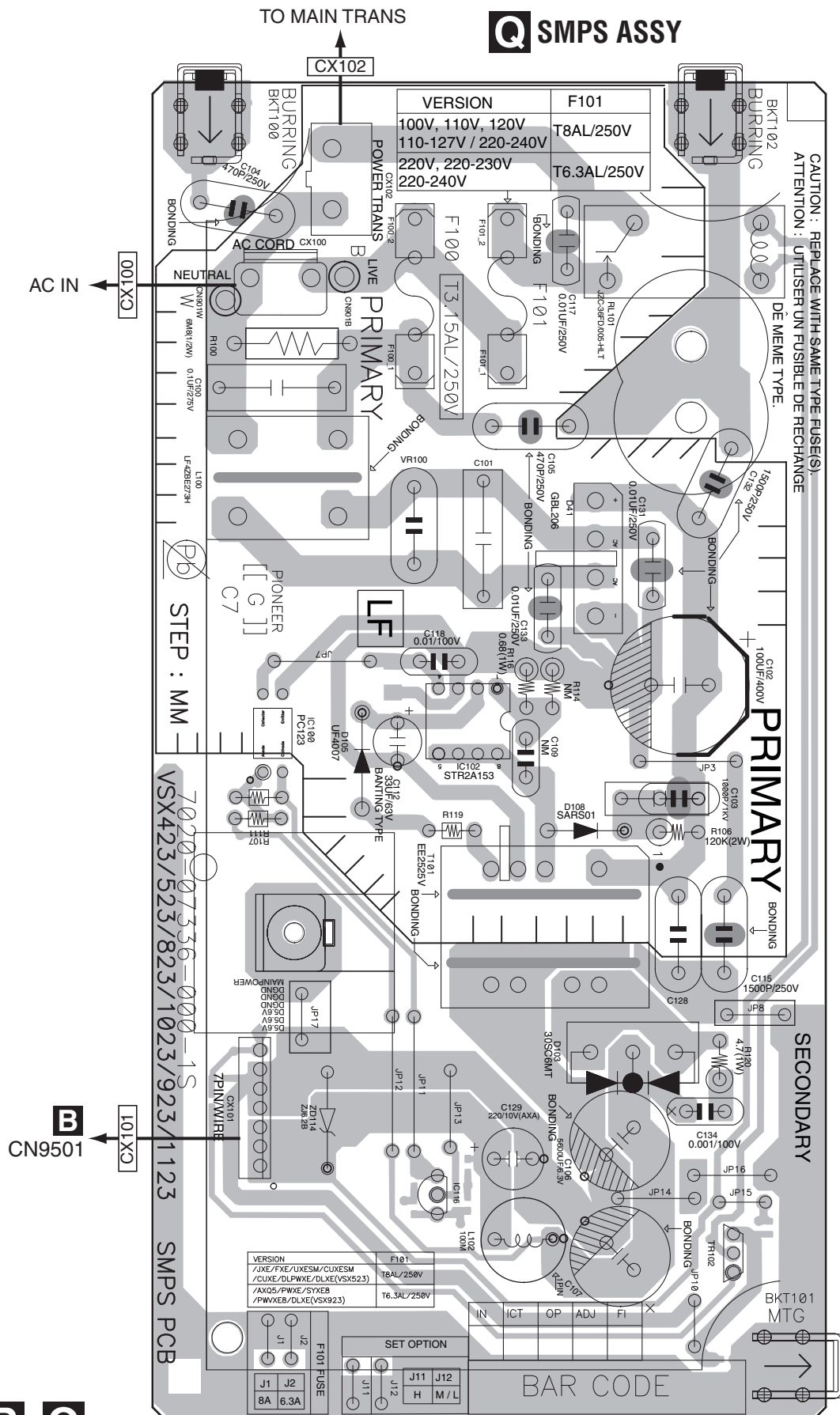
87

VSX-824-K

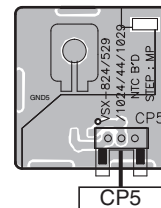
11.14 NTC and SMPS ASSYS

SIDE A

SIDE A



P NTC ASSY



IC102
IC100

IC116

TR102

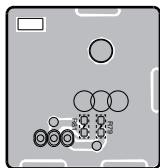
P Q

SIDE B

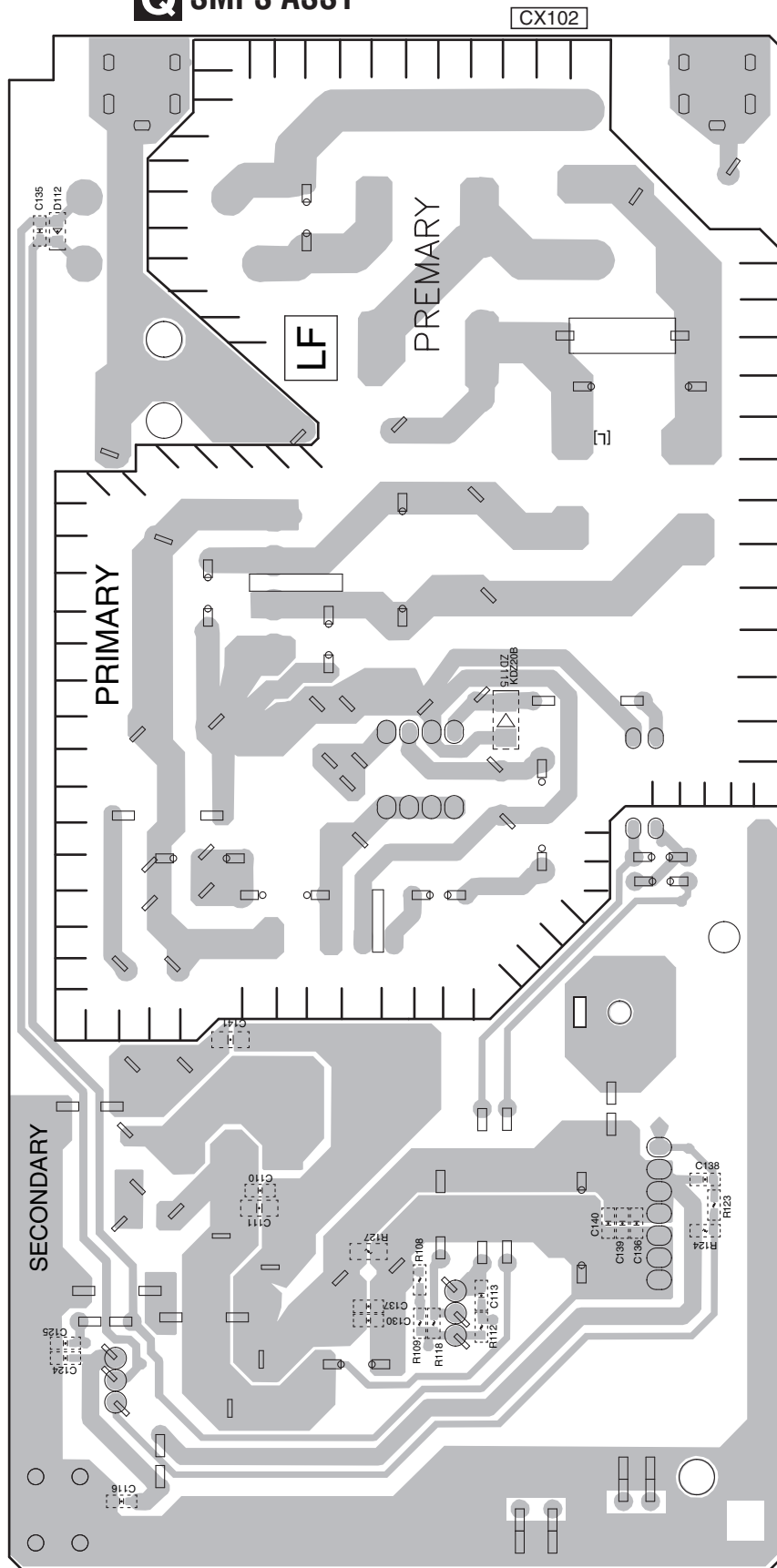
SIDE B

P NTC ASSY

Q SMPS ASSY



CP5



VSX-824-K

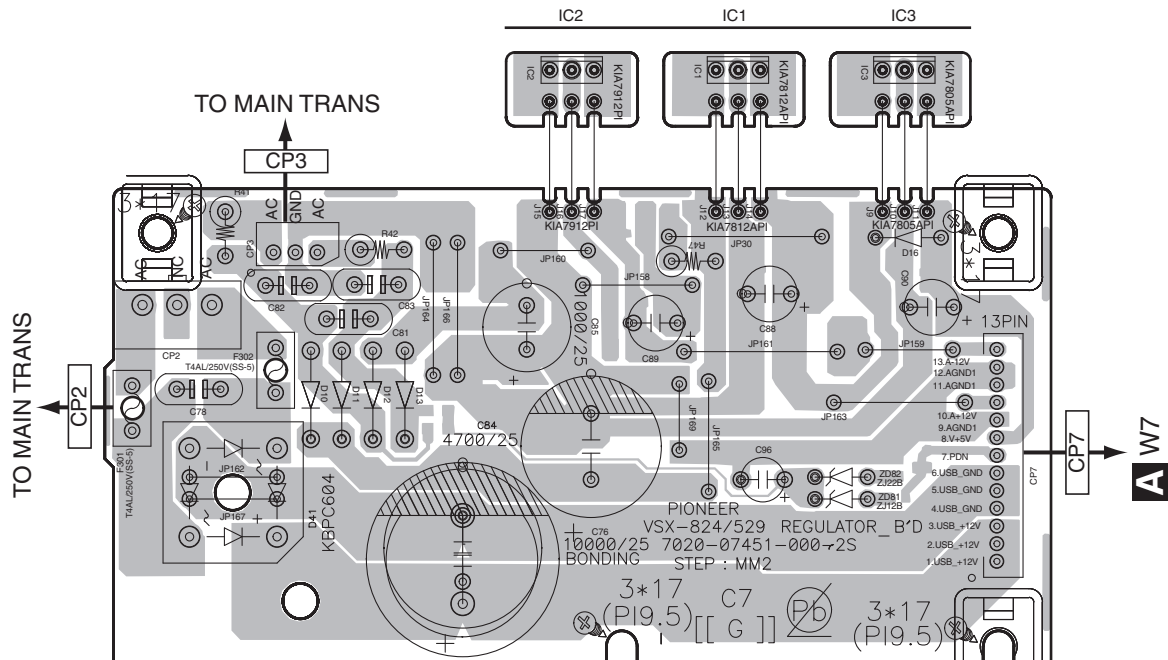
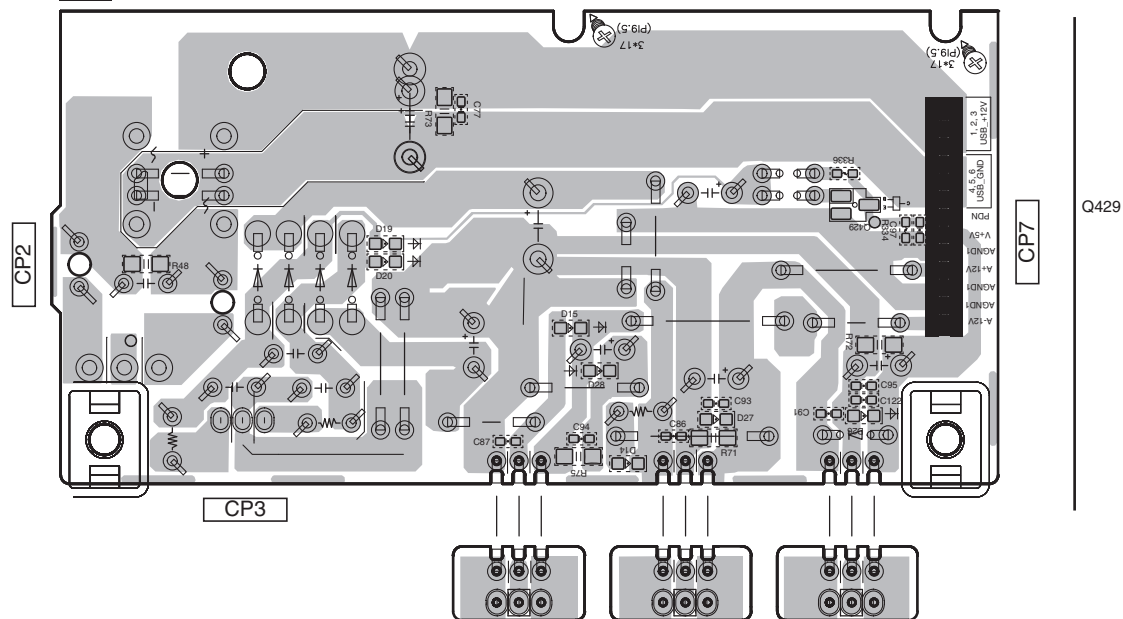
P

Q

11.15 REG ASSY

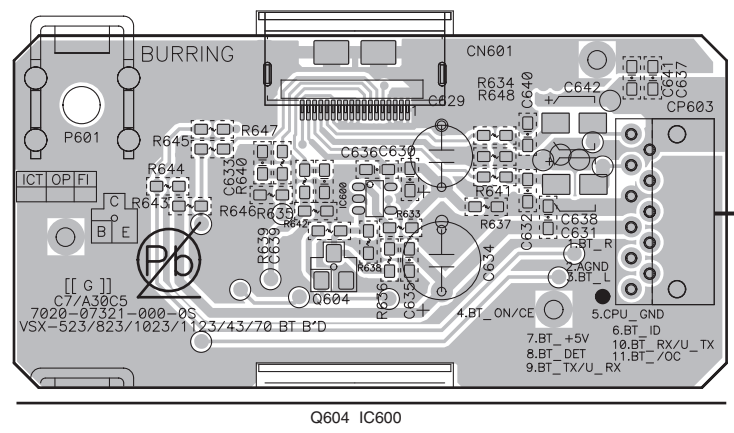
SIDE A

SIDE A

R REG ASSY**SIDE B****SIDE B****R REG ASSY**

R

SIDE A



G BT ASSY

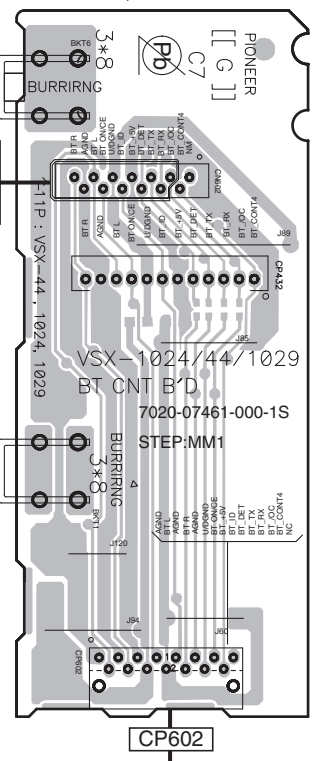
H BT CNT ASSY

VSX-1024-K, VSX-1029-K,
VSX-44 ONLY

for
VSX-1024-K,
VSX-1029-K,
VSX-44

J CN211
for VSX-824-K

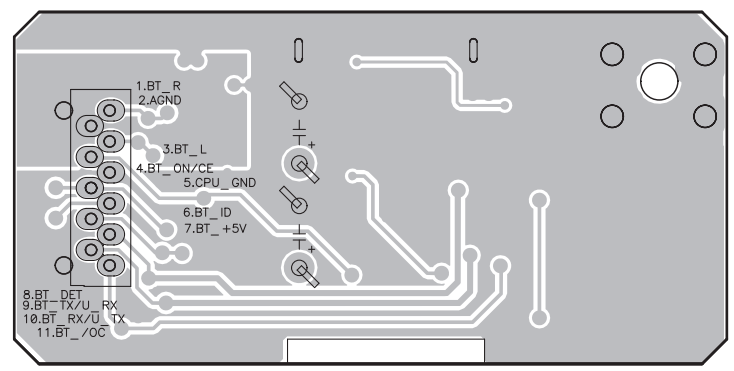
SIDE A



A CP605

SIDE B

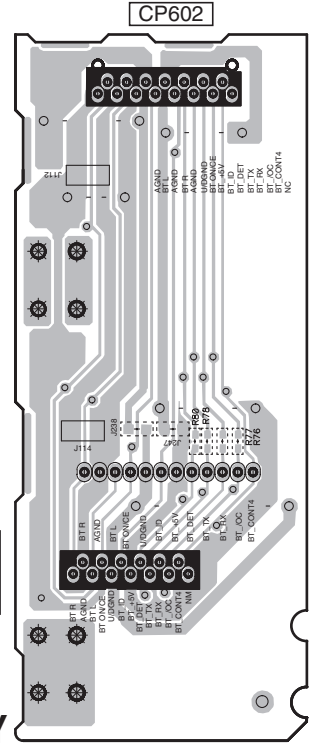
G BT ASSY



H BT CNT ASSY

VSX-1024-K, VSX-1029-K,
VSX-44 ONLY

SIDE B



12. PCB PARTS LIST

NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω $\rightarrow$ 56 $\times 10^1$ $\rightarrow$ 561.....RD1/4PU $\begin{bmatrix} 5 \\ 6 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \end{bmatrix} J$

47 k Ω $\rightarrow$ 47 $\times 10^3$ $\rightarrow$ 473.....RD1/4PU $\begin{bmatrix} 4 \\ 7 \end{bmatrix} \begin{bmatrix} 3 \\ 0 \end{bmatrix} J$

0.5 Ω $\rightarrow$ R50.....RN2H $\begin{bmatrix} R \\ 5 \end{bmatrix} \begin{bmatrix} 0 \\ 0 \end{bmatrix} K$

1 Ω $\rightarrow$ 1R0.....RS1P $\begin{bmatrix} 1 \\ R \end{bmatrix} \begin{bmatrix} 0 \\ 0 \end{bmatrix} K$

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 k Ω $\rightarrow$ 562 $\times 10^1$ $\rightarrow$ 5621.....RN1/4PC $\begin{bmatrix} 5 \\ 6 \end{bmatrix} \begin{bmatrix} 2 \\ 1 \end{bmatrix} F$

● SCHEMATIC DIAGRAM and PCB CONNECTION DIAGRAM $\rightarrow$ ● PCB PARTS LIST

BKT	$\rightarrow$ none	BEAD	$\rightarrow$ L	RLY	$\rightarrow$ RY	SW	$\rightarrow$ S
CLAMP	$\rightarrow$ none	F	$\rightarrow$ FU	RMC	$\rightarrow$ U	VEC	$\rightarrow$ S9***
W	$\rightarrow$ none	FLT	$\rightarrow$ V	RES	$\rightarrow$ X	GND	$\rightarrow$ KN
LUG	$\rightarrow$ none	JACK	$\rightarrow$ JA	XTAL	$\rightarrow$ X9***		
P	$\rightarrow$ none	JACK	$\rightarrow$ JA9***	BD	$\rightarrow$ L7***		
PACK	$\rightarrow$ 9***	JK	$\rightarrow$ JA	LED	$\rightarrow$ D8***		
CP	$\rightarrow$ CN	PT	$\rightarrow$ T	Z	$\rightarrow$ D9***		
CP	$\rightarrow$ CN9***	REG	$\rightarrow$ IC	ZD	$\rightarrow$ D9***		
CX	$\rightarrow$ CN9***	REG	$\rightarrow$ IC9***	DZ	$\rightarrow$ D9***		
FPC	$\rightarrow$ CN9***						

LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-824-K /CUXEVSM	VSX-1024-K /CUXESM	VSX-1029-K /CUXE	VSX-44 /CUXE	VSA-824 /JXEV
NSP	1.PCB TTL ASSY MAIN	7025HK1310010	7025HK1309010	7025HK1309010	7025HK1309030	7025HK1310050
	2..MAIN ASSY (PCB SUB ASSY MAIN)	7028074511010	7028074611010	7028074611010	7028074611030	7028074511050
	2..REG ASSY (PCB SUB ASSY REG)	7028074512010	Not used	Not used	Not used	7028074512050
	2..CONCT ASSY (PCB SUB ASSY CONCT)	7028074513010	Not used	Not used	Not used	7028074513010
	2..VIDEO ASSY (PCB SUB ASSY VIDEO)	Not used	7028074612030	7028074612030	7028074612030	Not used
	2..BRIDG ASSY (PCB SUB ASSY BRIDG)	Not used	7028074613030	7028074613030	7028074613030	Not used
	2..BT CNT ASSY (PCB SUB ASSY BT CNT)	Not used	7028074614030	7028074614030	7028074614030	Not used
	2..WG ASSY (PCB SUB ASSY WG)	Not used	7028074615030	7028074615030	7028074615030	Not used
	2..G-L ASSY (PCB SUB ASSY G-L)	Not used	7028074616030	7028074616030	7028074616030	Not used
NSP	1..PCB TTL ASSY DMAIN	7025HK1310011	7025HK1309011	7025HK1309011	7025HK1309031	7025HK1310051
	2..DMAIN ASSY (PCB SUB ASSY DMAIN)	7028074571010	70280745710C0	70280745710C0	70280745710C0	7028074571050
NSP	1..PCB TTL ASSY FRONT	7025HK1310012	7025HK1309012	7025HK1309012	7025HK1309032	7025HK1310052
	2..FRONT ASSY (PCB SUB ASSY FRONT)	7028074521010	70280745210A0	70280745210A0	70280745210C0	7028074521030
	2..INSEL ASSY (PCB SUB ASSY INSEL)	7028074522010	70280745220A0	70280745220A0	70280745220C0	7028074522010
	2..OPTCO ASSY (PCB SUB ASSY OPTCO)	7028074523010	70280745230C0	70280745230C0	70280745230C0	7028074523010
	2..HPMIC ASSY (PCB SUB ASSY HPMIC)	7028074524010	70280745240A0	70280745240A0	70280745240C0	7028074524010
	2..NTC ASSY (PCB SUB ASSY NTC)	7028074525010	70280745250C0	70280745250C0	70280745250C0	7028074525010
NSP	1..PCB TTL ASSY CPU	7025HK1310013	7025HK1309013	7025HK1309023	7025HK1309033	7025HK1310053
	2..CPU ASSY (PCB SUB ASSY CPU)	7028074531010	7028074631010	7028074631020	7028074631030	7028074531060
	2..G-L ASSY (PCB SUB ASSY G-L)	7028074532010	Not used	Not used	Not used	7028074532010
	2..G-R ASSY (PCB SUB ASSY G-R)	7028074533010	Not used	Not used	Not used	7028074533010
	2..CPU-G ASSY (PCB SUB ASSY CPU-G)	Not used	7028074632030	7028074632030	7028074632030	Not used
NSP	1..PCB TTL ASSY AUDIO	Not used	7025HK1309014	7025HK1309014	7025HK1309034	Not used
	2..AUDIO ASSY (PCB SUB ASSY AUDIO)	Not used	7028074641030	7028074641030	7028074641030	Not used
NSP	1..PCB TTL ASSY AMP5	7025HK1310014	Not used	Not used	Not used	7025HK1310054
	2..AMP5 ASSY (PCB SUB ASSY AMP5)	7028074541010	Not used	Not used	Not used	7028074541010
	2..WG ASSY (PCB SUB ASSY WG)	7028074542010	Not used	Not used	Not used	7028074542010
	2..HDC-G ASSY (PCB SUB ASSY HDC-G)	7028074543010	Not used	Not used	Not used	7028074543010
NSP	1..PCB TTL ASSY AMP7	Not used	7025HK1309015	7025HK1309015	7025HK1309035	Not used
	2..AMP7 ASSY (PCB SUB ASSY AMP7)	Not used	70280730510C0	70280730510C0	70280730510C0	Not used
NSP	1..PCB TTL ASSY SMPS	7025HK1310015	7025HK1309016	7025HK1309016	7025HK1309036	7025HK1310055
Δ	2..SMPS ASSY (PCB SUB ASSY SMPS)	702807336104A	702807336107A	702807336107A	702807336107A	702807336104A
NSP	1..PCB TTL ASSY FHDMI	7025HK1310016	7025HK1309017	7025HK1309017	7025HK1309037	7025HK1310056
	2..FHDMI ASSY (PCB SUB ASSY FHDMI)	7028074581010	70280745810A0	70280745810A0	70280745810A0	7028074581030
NSP	1..PCB TTL ASSY BT	7025HK1310017	7025HK1309018	7025HK1309018	7025HK1309038	7025HK1310057
	2..BT ASSY (PCB SUB ASSY BT)	70280732110H0	70280732110L0	70280732110L0	70280732110L0	70280732110H0

CONTRAST OF PCB ASSEMBLIES

A MAIN ASSY (for VSX-824-K and VSA-824)

7028074511010 and 7028074511050 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028074511010	7028074511050
	Tuner, FM/AM	E903004100781S	Not used

Note: This list is not complete. Only components that are available as service part are listed!

A MAIN ASSY (for VSX-1024-K, VSX-1029-K and VSX-44)

7028074611010 and 7028074611030 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028074611010	7028074611030
⚠	IC5 Liner regulator IC	Not used	J126781200040-IL

Note: This list is not complete. Only components that are available as service part are listed!

B DMAIN ASSY

7028074571010, 70280745710C0 and 7028074571050 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028074571010	70280745710C0	7028074571050
⚠	IC2021 Regulator IC	NJM2819ADL3-05	NJM2819ADL3-05	Not used

Note: This list is not complete. Only components that are available as service part are listed!

C OPTCO ASSY

7028074523010 and 70280745230C0 are different and are NOT COMPATIBLE! Some components on these Assy's are different. Since these different components are not available as service part, they are not listed.

G BT ASSY

70280732110H0 and 70280732110L0 are different and are NOT COMPATIBLE! Some components on these Assy's are different. Since these different components are not available as service part, they are not listed.

J CPU ASSY (for VSX-824-K and VSA-824)

7028074531010 and 7028074531060 are different and are NOT COMPATIBLE! Some components on these Assy's are different. Since these different components are not available as service part, they are not listed.

J CPU ASSY (for VSX-1024-K, VSX-1029-K and VSX-44)

7028074631010, 7028074631020 and 7028074631030 are different and are NOT COMPATIBLE! Some components on these Assy's are different. Since these different components are not available as service part, they are not listed.

L FHDMI ASSY

7028074581010, 70280745810A0 and 7028074581030 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028074581010	70280745810A0	7028074581030
⚠	IC2021 Regulator IC	NJM2819ADL3-515H	NJM2819ADL3-515H	Not used

Note: This list is not complete. Only components that are available as service part are listed!

M INSEL ASSY

7028074522010, 70280745220A0 and 70280745220C0 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028074522010	70280745220A0	70280745220C0
	D704 LED, round	Not used	Not used	K500036000160-IL
	S715 Switch	G180501000010-IL	G180501000010-IL	Not used
	S717 Switch	Not used	Not used	G180501000010-IL

Note: This list is not complete. Only components that are available as service part are listed!

N FRONT ASSY

7028074521010, 70280745210A0, 70280745210C0 and 7028074521030 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028074521010	70280745210A0	70280745210C0	7028074521030
	D701-D703 LED, round	K500052009011-IL	K500052009011-IL	K500036000160-IL	K500052009011-IL
	R779, R780 R, metal Film 100ppm	C060001063050-IL	C060001063050-IL	C060001063050-IL	C0602R2063050-IL

Note: This list is not complete. Only components that are available as service part are listed!

O HPMIC ASSY

7028074524010, 70280745240A0 and 70280745240C0 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028074524010	70280745240A0	70280745240C0
	JA701 Jack, D6.5	G402PJ612A09Y-IL	G402PJ612A09Y-IL	G402PJ612AG1Y-IL

Note: This list is not complete. Only components that are available as service part are listed!

P NTC ASSY

7028074525010 and 70280745250C0 are different and are NOT COMPATIBLE! Some components on these Assy's are different. Since these different components are not available as service part, they are not listed.

R REG ASSY

7028074512010 and 7028074512050 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028074512010	7028074512050
	D9082 D, zener	Not used	K06022R044522-IL

Note: This list is not complete. Only components that are available as service part are listed!

Mark No. Description Part No.

A MAIN ASSY (VSX-824-K)

SEMICONDUCTORS

IC 400	J084152180010-IL
IC 401-403	J121458000050-IL
IC 1200	J127410500010-IL
Q 14,15,19,20	J522305200050-IL
Q 16	J520015301210-IL
Q 17	J5000916Y0050-IL
 D 7	K047100600220-IL
D 9,17	K005041480230-IL

MISCELLANEOUS

JA 101	TER,BOARD SCREW 8P	G614108V1010M-IL
JA 102	TER,BOARD SCREW 2P	G611201A0200Y-IL
JA 401	TER,RCA 6PIN	G603610A0001Y-IL
JA 402	TER,RCA 3PIN	G606305AW140Y-IL
JA 403	RCA JACK	G601207AE060Y-IL
RY 2-4	RELAY	G680060103010-IL
RY 5	RELAY	G680240202030-IL

Mark No. Description Part No.

CN 9013,9111 CN,WAFER	L109012511540S
CN 9015 CN,WAFER	L109012511140S
CN 9016 CN,WAFER	L109012512940S

601 TUNER,FM/AM

E903004100781S

RESISTORS

R 5,7,9,11	C060010065050-IL
R 6,8,10,12	C060010066050-IL
R 13,25	C060010065050-IL
R 14	C060010066050-IL
R 15,16	C060033166050-IL
R 64	C060022063050-IL
R 66	C0604R7065050-IL
R 588,589	C060010165060-IL

CAPACITORS

C 58	D040682088010-IL
C 1202	NJM2505AF

Mark No.	Description	Part No.
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A MAIN ASSY (VSX-1024-K)

SEMICONDUCTORS

⚠	IC 1	J126781200040-IL
⚠	IC 2	J126791200060-IL
⚠	IC 3	J126780500110-IL
	Q 14,15,19,20	J522305200050-IL
	Q 16	J520015301210-IL
	Q 17	J5000916Y0050-IL
⚠	D 7	K047100600220-IL
	D 9,17,19,20	K005041480230-IL
⚠	D 10-13	K000400700220-IL
⚠	D 4912	K047604000020-IL
	D 9081	K06012R044522-IL

MISCELLANEOUS

JA 101	TER,BOARD SCREW 8P	G614108V1010M-IL
JA 102	TER,BOARD SCREW 4P	G612405E0200Y-IL
JA 103	TER,BOARD SCREW 2P	G611201A0200Y-IL
JA 104	TER,BOARD PUSH 4P	G594408SA030Y-IL
RY 2-6	RELAY	G680060103010-IL
RY 800	RELAY	G680240202030-IL
CN 9009,9013,9435	CN.WAFER	L109012510740S
CN 9015	CN.WAFER	L109012511340S
CN 9016	CN.WAFER	L109012510940S
CN 9017,9605	CN.WAFER	L109012511540S
CN 9018	CN.WAFER	L109012511740S
CN 9019	CN.WAFER	L101911500610S
601	TUNER,FM/AM	E903004100781S
FU 302,303	FUSE,MICRO (T4A 250 V)	G658402250050-IL

RESISTORS

R 5,7,9,11	C060010065050-IL
R 6,8,10,12	C060010066050-IL
R 13,15,17,25	C060010065050-IL
R 14,16,18	C060010066050-IL
R 19,26	C060033166050-IL
R 41,42	C060R22065050-IL
R 64	C060022063050-IL
R 66	C0604R7065050-IL
R 384,385	C00003916P520S

CAPACITORS

C 55,58	D040682088010-IL
C 76	D040103084000-IL
C 84	D040472084020-IL
C 85	D040102084060-IL

B DMAIN ASSY (VSX-824-K)

SEMICONDUCTORS

IC 1	8952V10240050
IC 3	TC74LCX541FK
IC 4	TC7SZ125FUS1
IC 101	8952V10240020
IC 103	J126288833010S
	
IC 809	J046206501010S
IC 810,1605	J046205101010S
IC 1501,1510	TC74VHC157FK
IC 1511	TC7WH157FK
IC 1513	TC7SH08FUS1
IC 1801	J080458800010-IL
IC 1804	TC74VHC08FK

Mark No.	Description	Part No.
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	IC 1808	TC7WHU04FK
⚠	IC 2021	NJM2819ADL3-05
	IC 9003	J001986466010-IL
	IC 9004	8952V10240030
	IC 9201,9209	J001030563160S
	IC 9205	8952V10240040
⚠	IC 9555	NJM2888F05
	Q 401	J543608000010-IL

MISCELLANEOUS

JA 1601,9601-9605,9620 CN.WAFER	L109100195550-IL
JA 3000 CN,PLUG CONTACT	G480400201010-IL
JA 9202 JACK,MODULAR	G4060RJ450230-IL

CAPACITORS

C 1560 D040102081070-IL

C OPTCO ASSY (VSX-824-K)

SEMICONDUCTORS

IC 2009 J040740400290-IL

MISCELLANEOUS

JA 1305	MODULE	E100802000250-IL
JA 1306	TER,RCA 1PIN	G600107A0000Y-IL
CN2009	CN.WAFER 2.0MM	L101911500810S

D BRIDG ASSY (VSX-1024-K)

MISCELLANEOUS

CN438.2003 CN.WAFER L109012511940S

E CONCT ASSY (VSX-824-K)

MISCELLANEOUS

CN109 CN.WAFER L109012511540S

F VIDEO ASSY (VSX-1024-K)

SEMICONDUCTORS

IC 1200	J127410500010-IL
IC 1201	J170258000010-IL

MISCELLANEOUS

JA 1200 TER.RCA 9PIN G607902AA580Y-IL

G BT ASSY (VSX-824-K)

SEMICONDUCTORS

IC 600 BD2224G

MISCELLANEOUS

CN601 CONNECTOR CKS5712

 BT CNT ASSY (VSX-1024-K)

MISCELLANEOUS

CN602 CN.WAFER L109012511140S

Mark No. Description Part No.

I AUDIO ASSY (VSX-1024-K)

SEMICONDUCTORS

IC 400 J084152180010-IL
IC 401-403 J121458000050-IL

MISCELLANEOUS

JA 401 TER,RCA 6PIN G603603A0090Y-IL
JA 403 RCA JACK G601207AE060Y-IL

RESISTORS

R 588,589 C060010165060-IL

J CPU ASSY (VSX-824-K)

SEMICONDUCTORS

IC 203 8952V10240010
IC 204 J000241600170-IL
IC 206 J040741080070-IL
IC 305 J126288833010S

MISCELLANEOUS

X 201 CRYSTAL (16 MHz) E80016R000030-IL
CN201 CN,WAFER L109012513340S
CN203,211 CN,WAFER L109012511140S

RESISTORS

R 103,104 C00003916P520S

J CPU ASSY (VSX-1024-K)

SEMICONDUCTORS

IC 203 8952V10240010
IC 204 J000241600170-IL
IC 206 J040741080070-IL
IC 301 J126288833010S

MISCELLANEOUS

JA 504,505 JACK,D3.5 G401PJ3080100-IL
X 201 CRYSTAL (16 MHz) E80016R000030-IL
CN201 CN,WAFER L109012513340S
CN213 CN,WAFER L109012511140S

K AMP5 ASSY (VSX-824-K)

SEMICONDUCTORS

Q 1-3 J5000992FA050-IL
Q 4 J5023206Y0050-IL
Q 452 J5001024Y0050-IL
D 9001 K06005R134522-IL
D 9002,9003 K06004R344522-IL

MISCELLANEOUS

VR 1 VR,SEMI CARBON MOLD C541102315000-IL

RESISTORS

R 16 C060047065060-IL
R 24,25 C060010165060-IL
R 26-29 N113136647820-IL
R 33 F320471000950-IL
R 452 C060010165060-IL

R 453 C060033065050-IL

Mark No. Description Part No.

K AMP7 ASSY (VSX-1024-K)

SEMICONDUCTORS

Q 401,407,408,413 J5000992FA050-IL
Q 412,424,436,448 J5023206Y0050-IL
Q 417 J5001024Y0050-IL
Q 419,420,425,431 J5000992FA050-IL
Q 432,437,443,444 J5000992FA050-IL

Q 449,455,456,461 J5000992FA050-IL
Q 460,472,484 J5023206Y0050-IL
Q 467,468,473,479 J5000992FA050-IL
Q 480 J5000992FA050-IL
D 9401,9404,9407,9410 K06005R134522-IL

D 9402,9403,9405,9406 K06004R344522-IL
D 9408,9409,9411,9412 K06004R344522-IL
D 9413,9416,9419 K06005R134522-IL
D 9414,9415,9417,9418 K06004R344522-IL
D 9420,9421 K06004R344522-IL

MISCELLANEOUS

VR 401-407 VR,SEMI CARBON MOLD C541102315000-IL

RESISTORS

R 406,450,494,537 F320471000950-IL
R 415,439,458,483 C060010165060-IL
R 424,425,430,431 N113136647820-IL
R 443,487,530,573 C060047065060-IL
R 467,468,474,475 N113136647820-IL

R 493 C060033065060-IL
R 502,526,545,569 C060010165060-IL
R 511,512,517,518 N113136647820-IL
R 551 C060010165060-IL
R 554,555,561,562 N113136647820-IL

R 580,623,666 F320471000950-IL
R 588,612,631,655 C060010165060-IL
R 597,598,603,604 N113136647820-IL
R 616,659,702 C060047065060-IL
R 640,641,646,647 N113136647820-IL

R 674,698 C060010165060-IL
R 683,684,689,690 N113136647820-IL

L FHDMI ASSY (VSX-824-K)

SEMICONDUCTORS

IC 808 J046206501010S
IC 2021 NJM2819ADL3-515H
IC 8202 PCA9517DGK

MISCELLANEOUS

JA 600 CN,PLUG CONTACT G480400201010-IL
JA 8082 CN,WAFER L109100190250S

M INSEL ASSY (VSX-824-K)

MISCELLANEOUS

S 715 SWITCH G180501000010-IL
S 9702 SW,ENCODER G121121200230-IL

N FRONT ASSY (VSX-824-K)

SEMICONDUCTORS

IC 701 J127197044010-IL

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