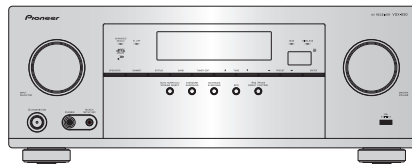


Pioneer

Service Manual



VSX-830-K

ORDER NO.
RRV4595

AV Receiver

VSX-830-K

VSX-45

VSX-830-S

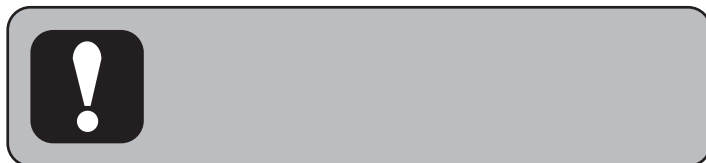
VSA-830

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

Model	Type	Power Requirement	Remarks
VSX-830-K	CUXESM	AC 120 V	
VSX-45	CUXE	AC 120 V	
VSX-830-K	SYXEV8	AC 220 V to 230 V	
VSX-830-S	SYXEV8	AC 220 V to 230 V	
VSA-830	JXEV	AC 100 V	

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

Model	Order No.	Remarks
VSX-830-K, VSX-45, VSX-830-S	RRV4594	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
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K-MZV MAY 2015 Printed in Japan

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

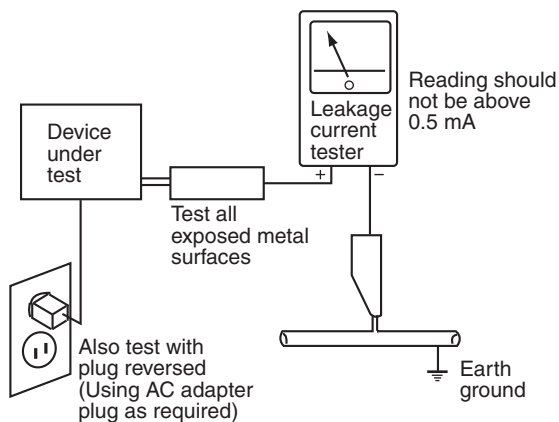
(FOR USA MODEL ONLY)

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.

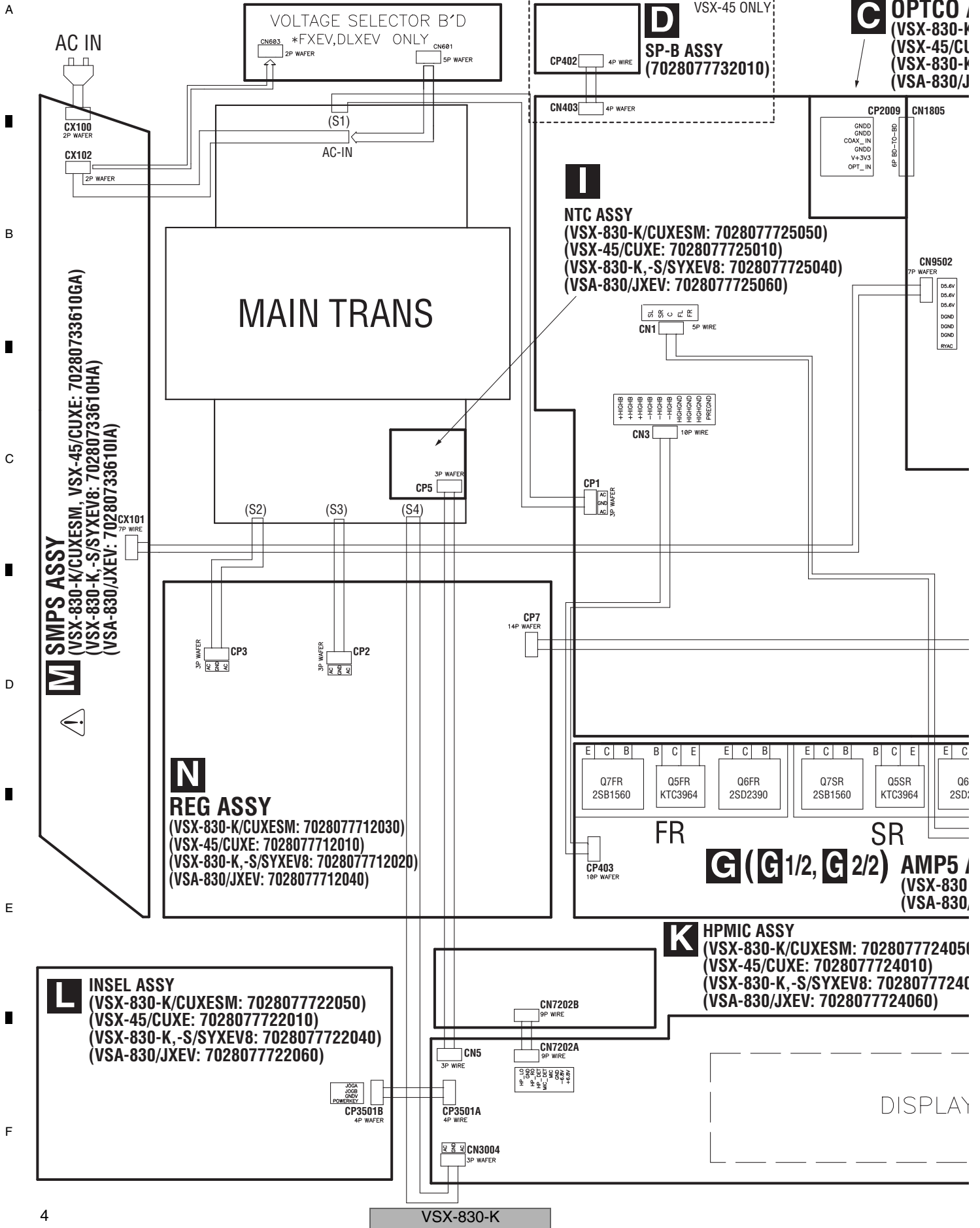
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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10. SCHEMATIC DIAGRAM

10.1 OVERALL WIRING DIAGRAM



△

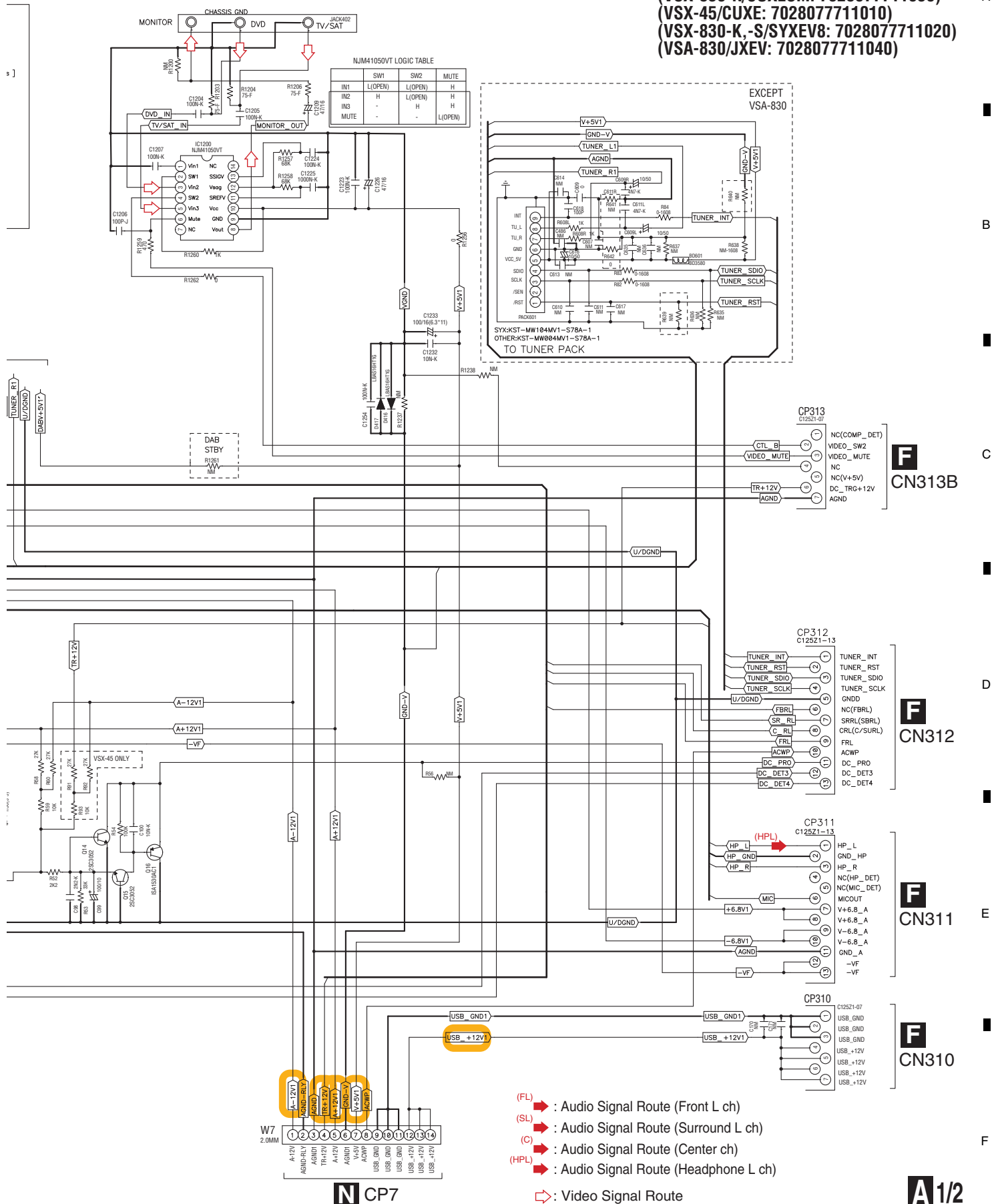


6

VSX-830-K

A1/2 MAIN ASSY

(VSX-830-K/CUXESM: 7028077711030)
 (VSX-45/CUXE: 7028077711010)
 (VSX-830-K, -S/SYXEV8: 7028077711020)
 (VSA-830/JXEV: 7028077711040)



△



A



C

D

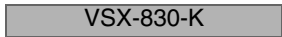
E

F

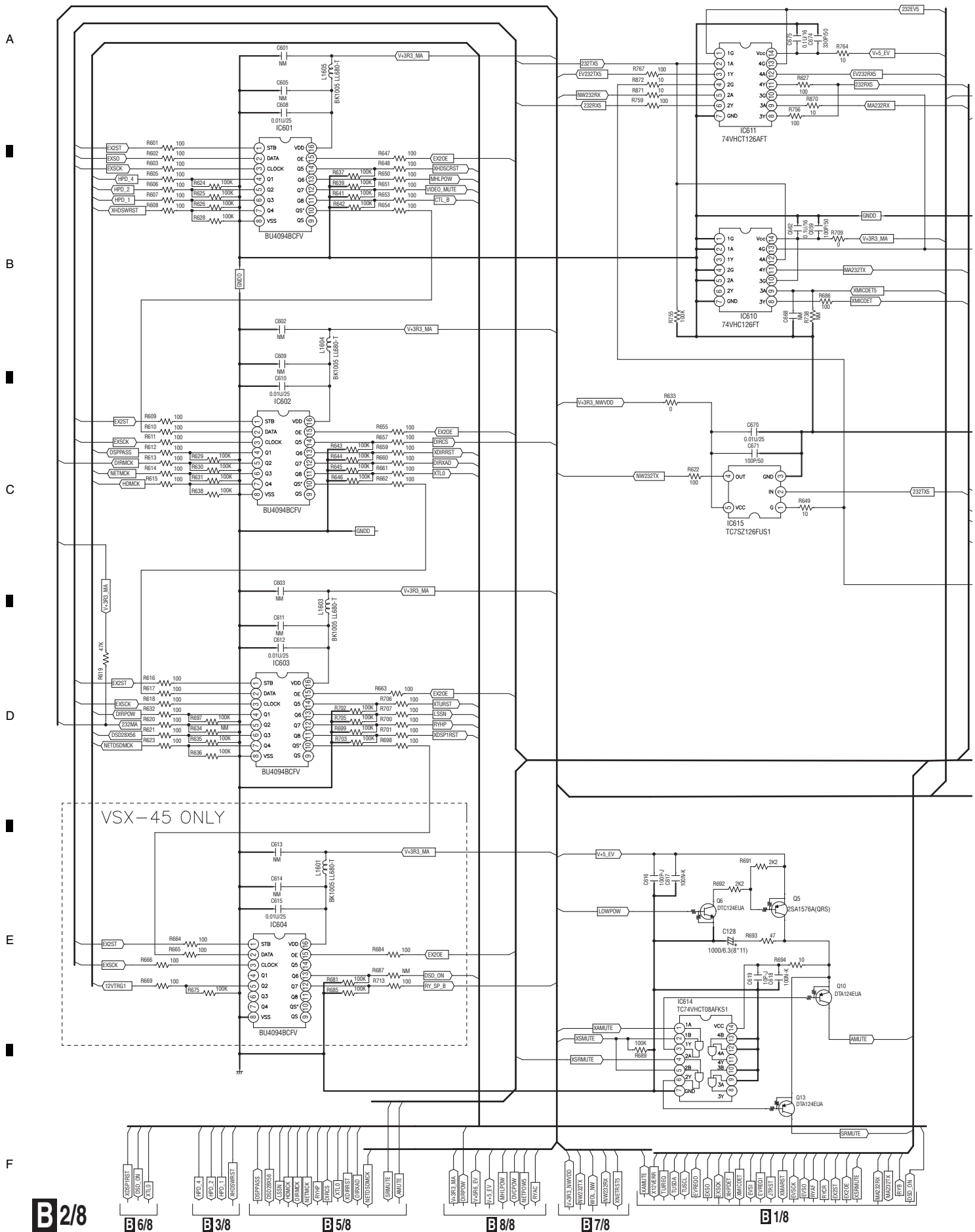
B 1/8



F



10.5 D-MAIN ASSY (2/8)





4

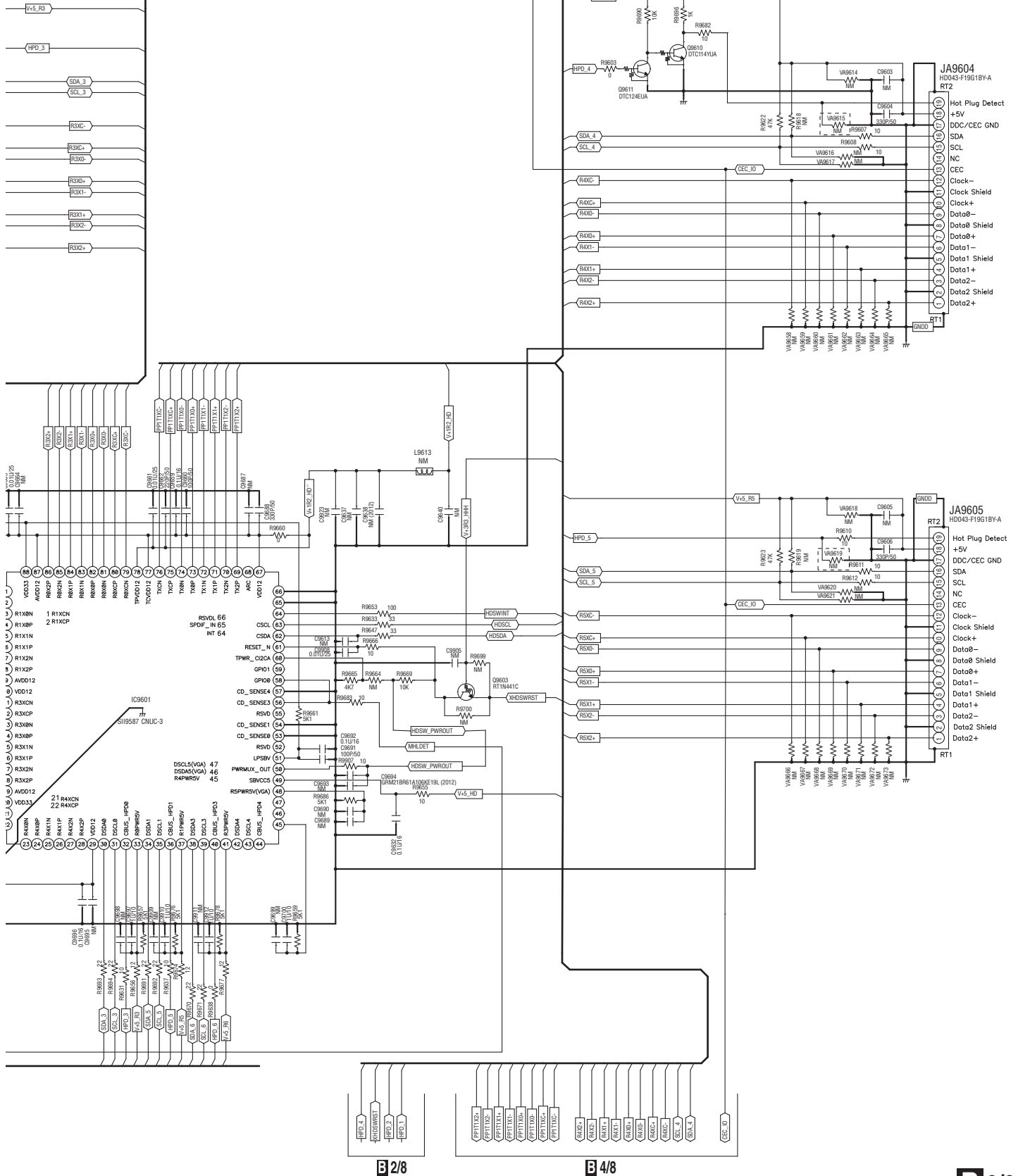
C

D

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F

B3/8 DMAIN ASSY (VSX-830-K/CUXESM: 7028077771030) (VSX-45/CUXE: 7028077771010) (VSX-830-K,-S/SYXEV8: 7028077771020) (VSA-830/JXEV: 7028077771040)



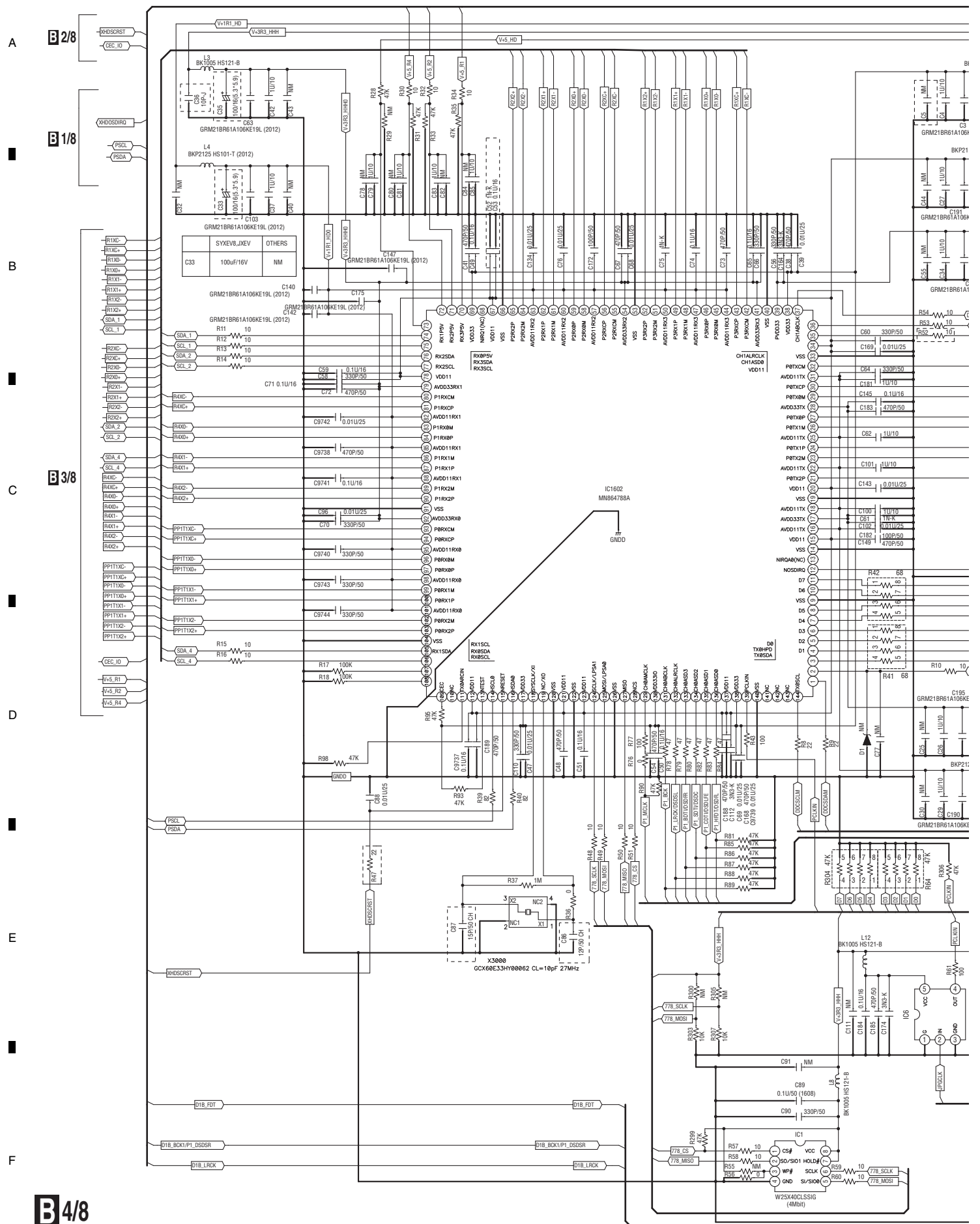
B2/8

B4/8

B3/8

VSX-830-K

10.7 D-MAIN ASSY (4/8)





△



C

- D



F

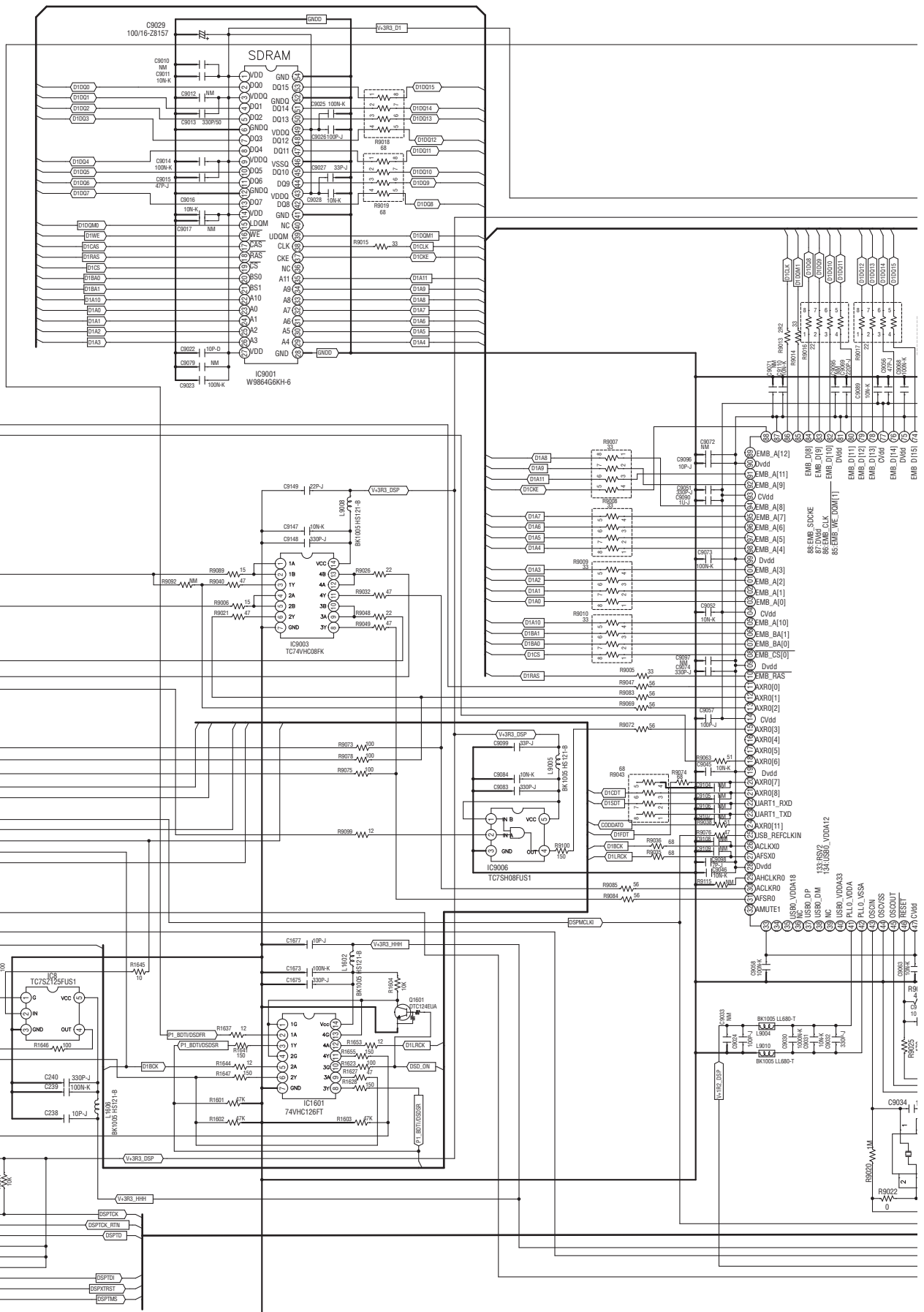
18

4



10.9 D-MAIN ASSY (6/8)

A
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C
D
E
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B 6/8 DMAIN ASSY

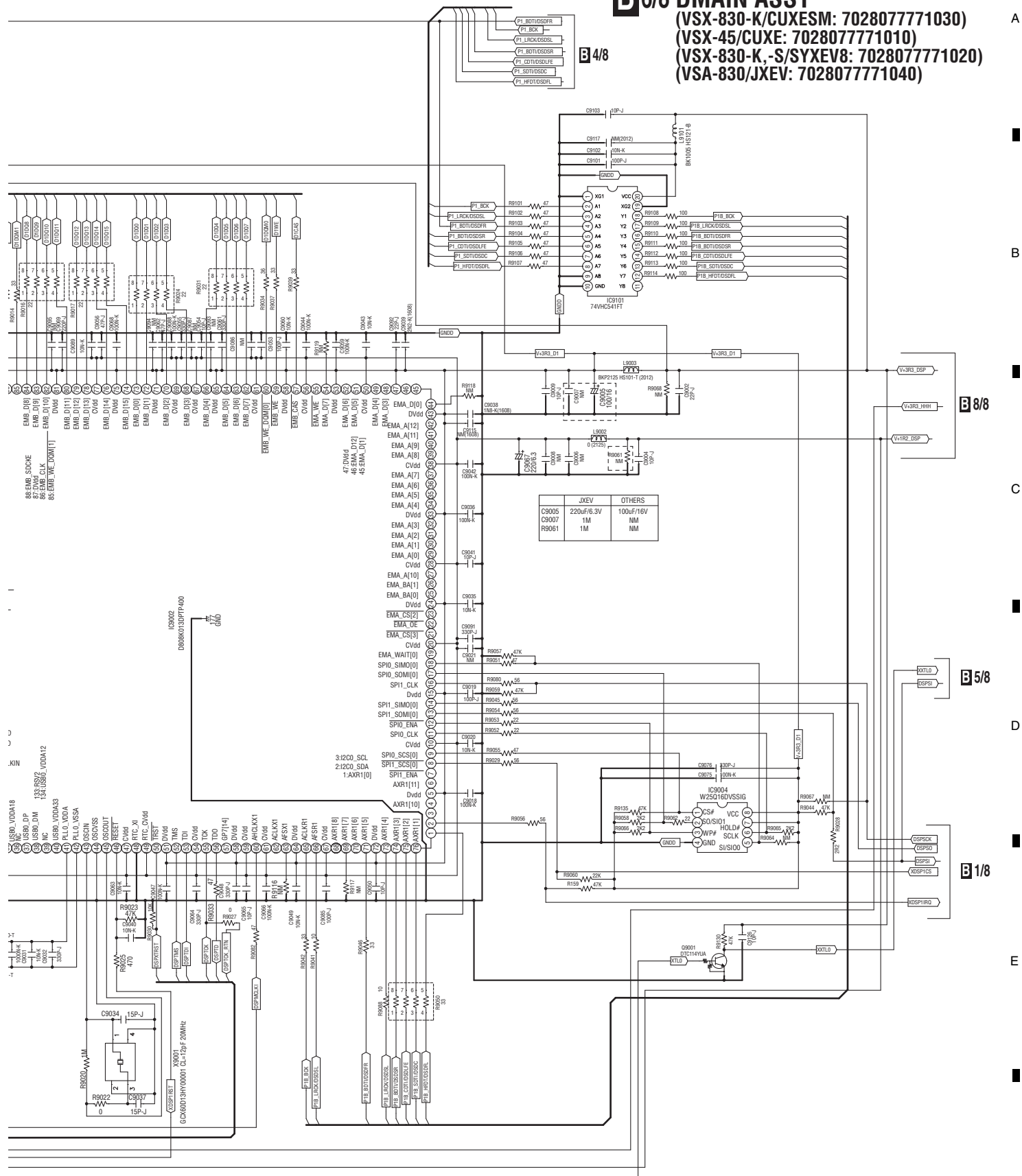
(VSX-830-K/CUXESM: 7028077771030)

(VSX-45/CUXE: 7028077771010)

(VSX-830-K,-S/SYKEV8: 7028077771020)

(VSA-830/JXEV: 7028077771040)

B 4/8



A

B

C

D

E

F

VSX-830-K

10.10 D-MAIN ASSY (7/8)

A

B

C

D

E

F

CP3601

B7/8

22

NETWORK
MODULE

CN9204

S1210-64SB-S01-1R

Extended
Connector

HDATA12

HDATA13

HDATA14

HDATA15

GND0

HDATA16

HDATA17

HDATA18

HDATA19

GND0

HDATA20

HDATA21

HDATA22

HDATA23

GND0

HDATA24

HDATA25

HDATA26

GND0

HDATA27

HDATA28

HDATA29

GND0

HDATA30

HDATA31

HDATA32

GND0

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Module Connector

EXTERNAL FLASH

V-3R3_NWVDD

C9250

100N-K(1608)

C9280

330P-J

IC9202

DNV/SIO3

SCL/SIO#

NC

NC

NC

NC

NC

NC

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NC

EXTERNAL FLASH

V-3R3_NWVDD

C9250

100N-K(1608)

C9280

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DNV/SIO3

SCL/SIO#

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EXTERNAL FLASH

V-3R3_NWVDD

C9250

100N-K(1608)

C9280

330P-J

IC9202

DNV/SIO3

SCL/SIO#

NC

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EXTERNAL FLASH

V-3R3_NWVDD

C9250

100N-K(1608)

C9280

330P-J

IC9202

DNV/SIO3

SCL/SIO#

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EXTERNAL FLASH

V-3R3_NWVDD

C9250

100N-K(1608)

C9280

330P-J

IC9202

DNV/SIO3

SCL/SIO#

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EXTERNAL FLASH

V-3R3_NWVDD

C9250

100N-K(1608)

C9280

330P-J

IC9202

DNV/SIO3

SCL/SIO#

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EXTERNAL FLASH

V-3R3_NWVDD

C9250

100N-K(1608)

C9280

330P-J

IC9202

DNV/SIO3

SCL/SIO#

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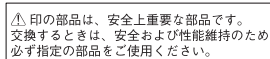
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NC

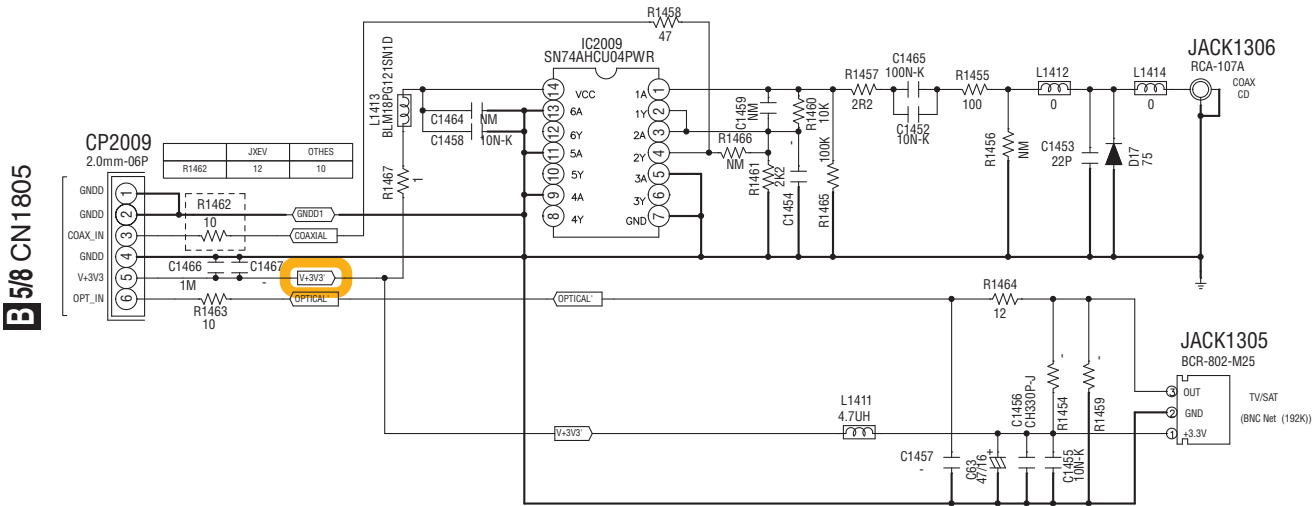
NC

NC



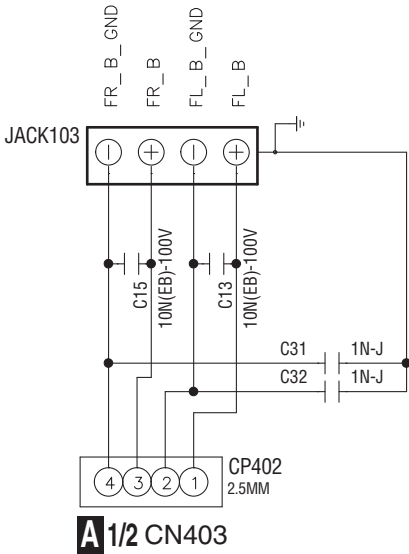
10.12 OPTCO ASSY

C OPTCO ASSY
(VSX-830-K/CUXESM: 7028077723050)
(VSX-45/CUXE: 7028077723010)
(VSX-830-K,-S/SYXEV8: 7028077723040)
(VSA-830/JXEV: 7028077723060)



10.13 SP-B ASSY (VSX-45/CUXE ONLY)

D SP-B ASSY (7028077732010)

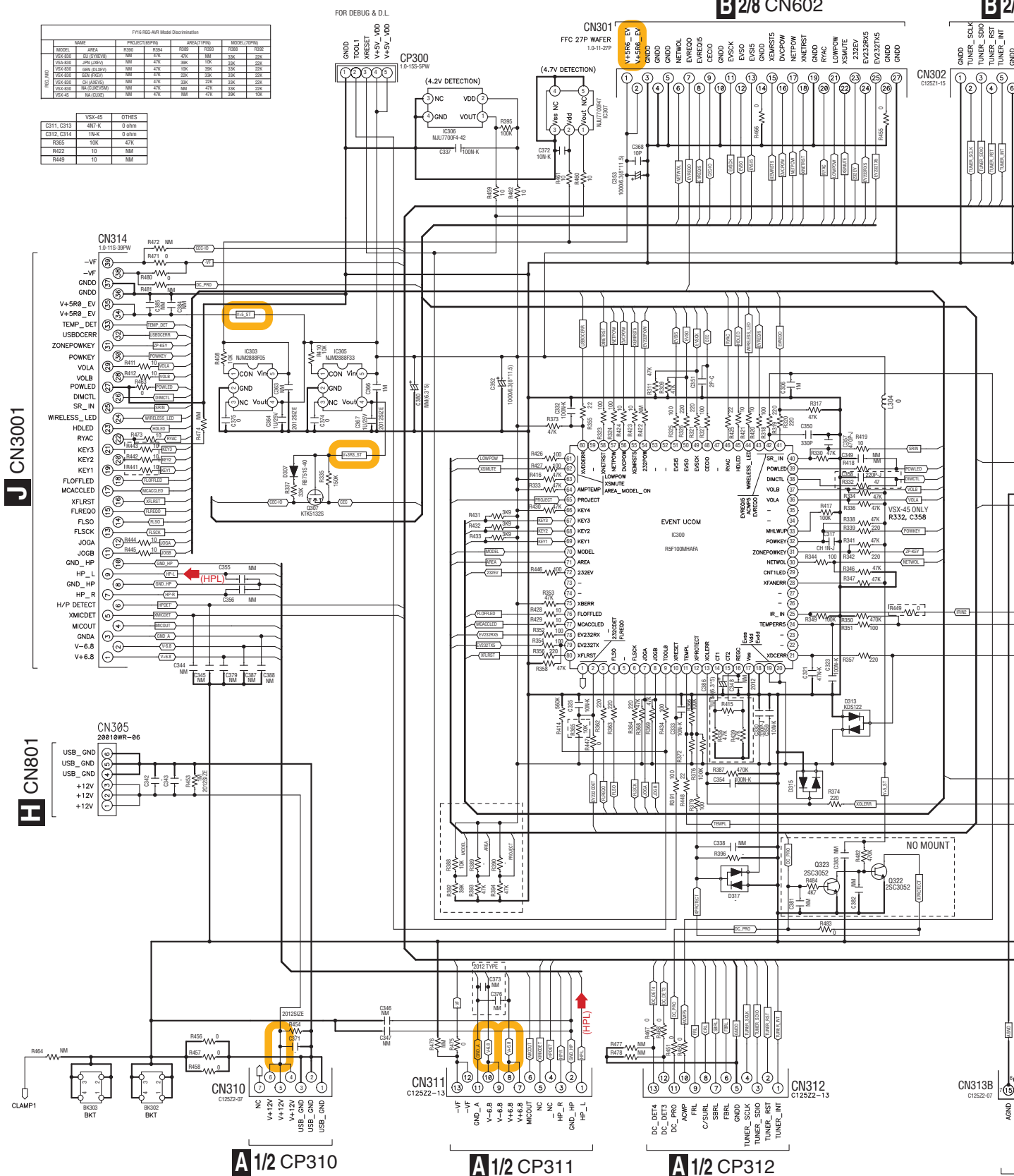


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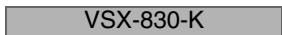
F

FY16 REG-RM Model Discrimination									
REG-RMID	NAME		PROJECT/HPI/NM			AREA7 (7P/N)		MODEL7 (7P/N)	
	MODEL	AREA	R500	R504	R509	R530	R533	R588	R592
	V5X-030	EU (SYN/0)	NM	47%	47%	NM	33%	22%	
	V5X-030	JPM (V6A)	NM	47%	39%	10%	33%	22%	
	V5X-030	GEN (DUXE)	NM	47%	10%	39%	33%	22%	
	V5X-030	GEN (FVEY)	NM	47%	22%	33%	33%	22%	
	V5X-030	CH (A075)	NM	47%	33%	22%	33%	22%	
	V5X-030	NA (C075/CSM)	NM	47%	NM	47%	33%	22%	
	V5X-030	ML (DZVS)	NM	47%	47%	22%	33%	22%	

	V5X-45	OTHER
C311, C313	4N7-K	0 ohm
C312, C314	1N-K	0 ohm
R365	10K	47K
R422	10	NM
R449	10	NM



29



10.16 AMP5 ASSY (1/2)

A

B

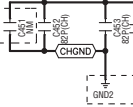
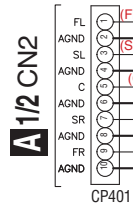
C

D

E

F

	VSX-45/830	OTHER
C28FL	NM	82P
C28SL		
C28C		
C28SR		
C28FR		

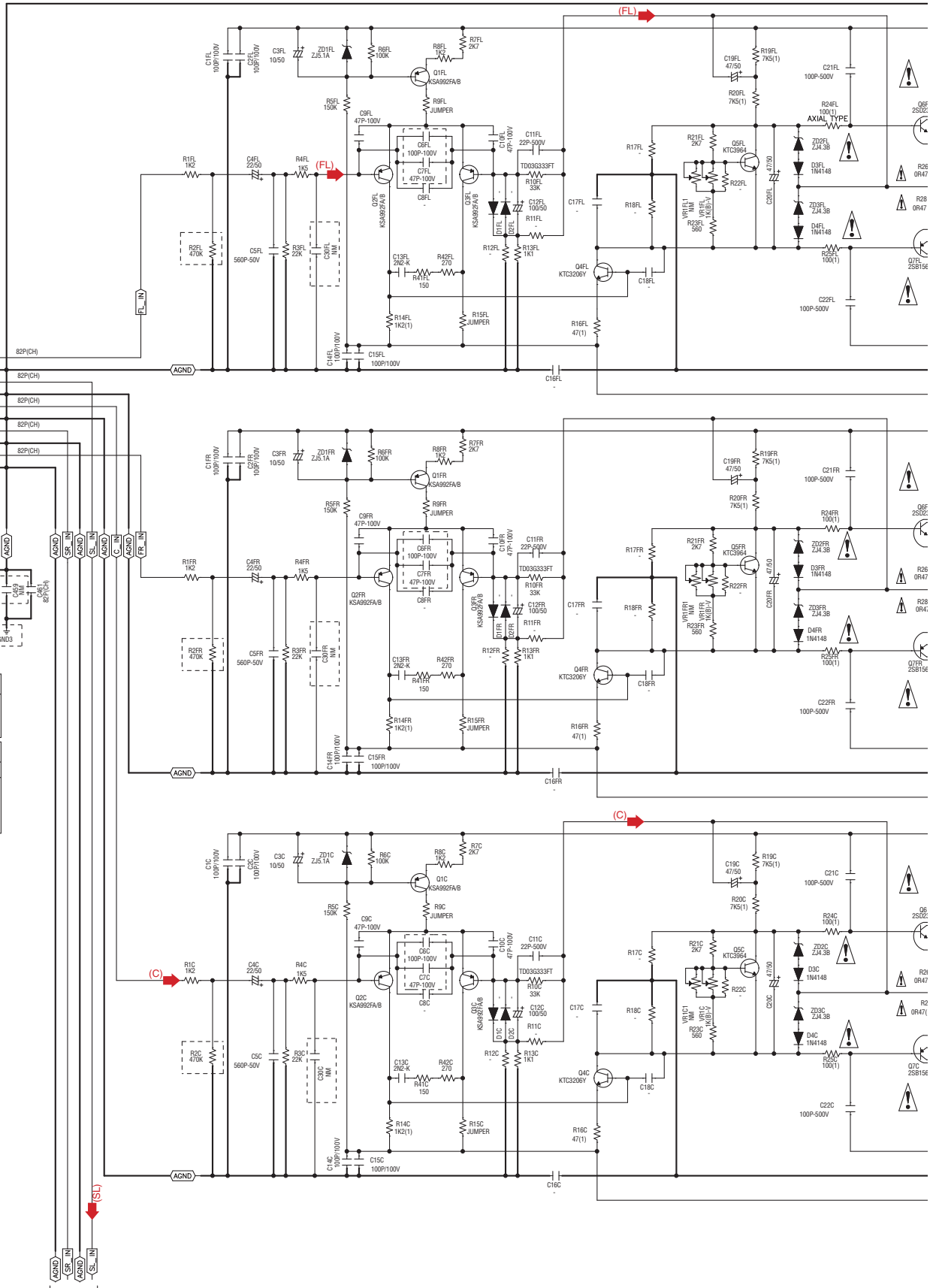


	VSX-45/830	OTHER
C452	NM	82P
C453		
C461		

	VSX830 JXEV	OTHER
C460	NM	82P
R2FL		
R2FR		
R2C	NM	470K
R2SL		
R2SR		

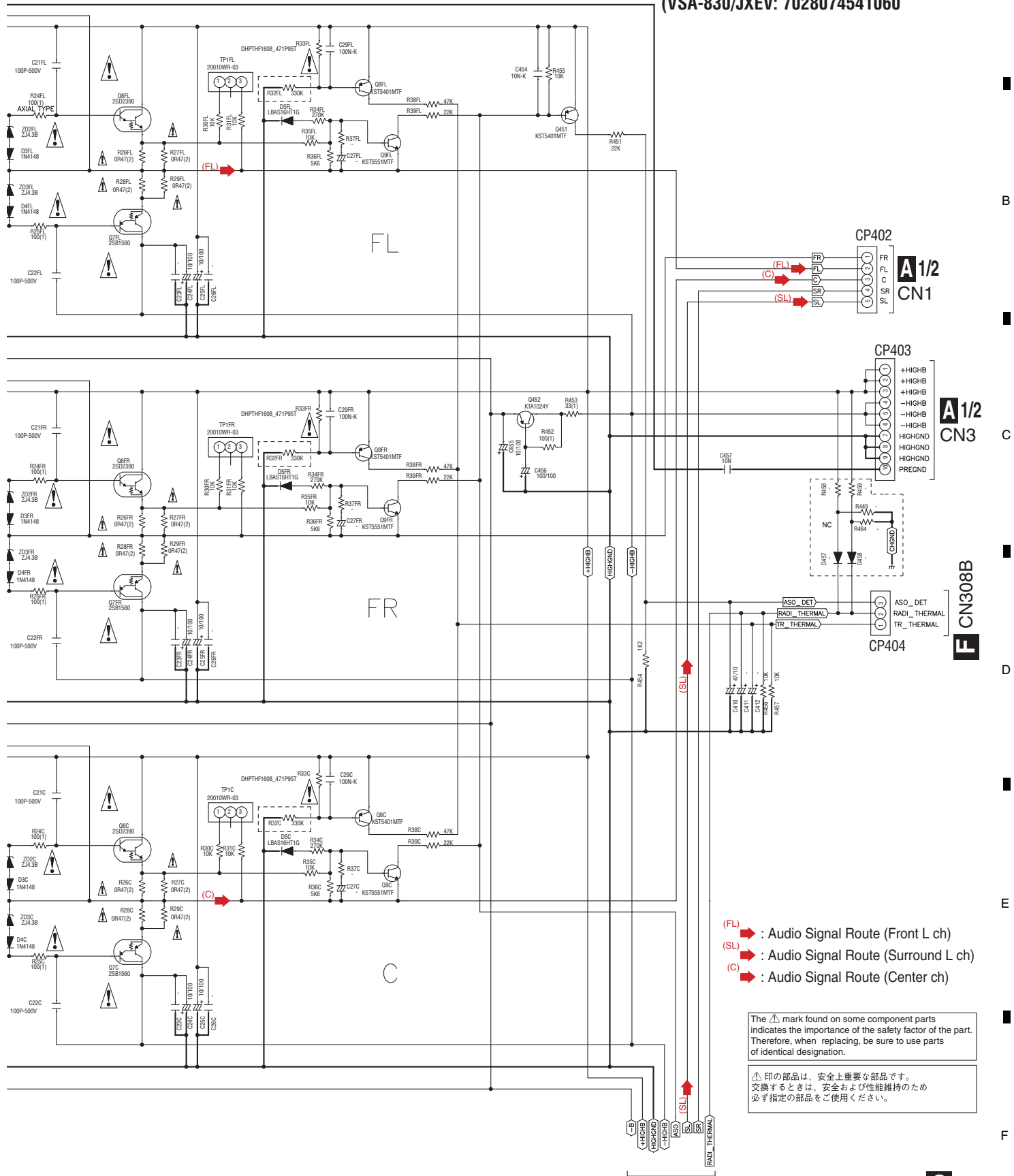
G1/2

G2/2



G1/2 AMP5 ASSY

(VSX-830-K/CUXESM, VSX-45/CUXE,
VSX-830-K,-S/SYXE8: 7028074541040)
(VSA-830/JXEV: 7028074541060)

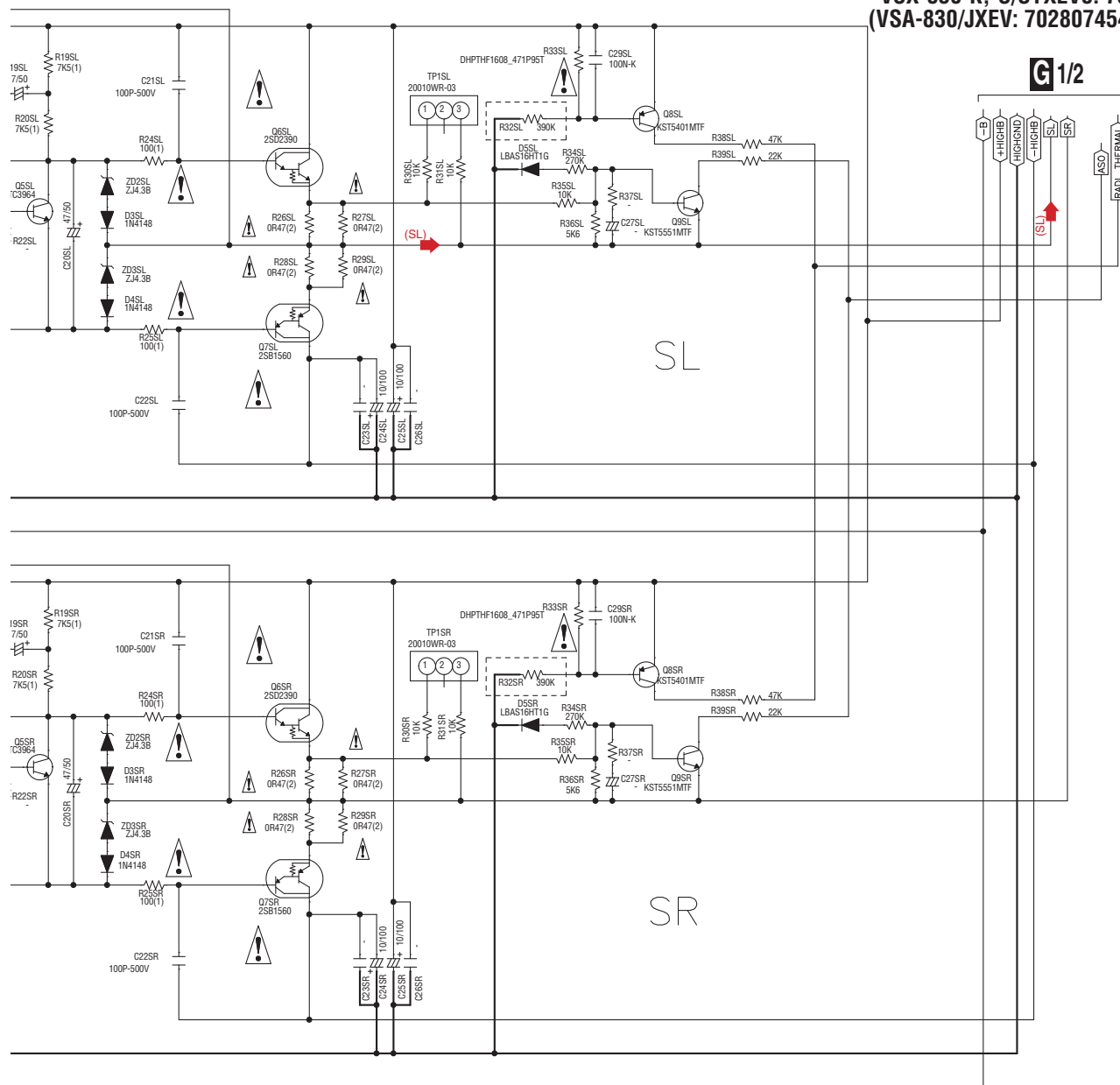


4

F



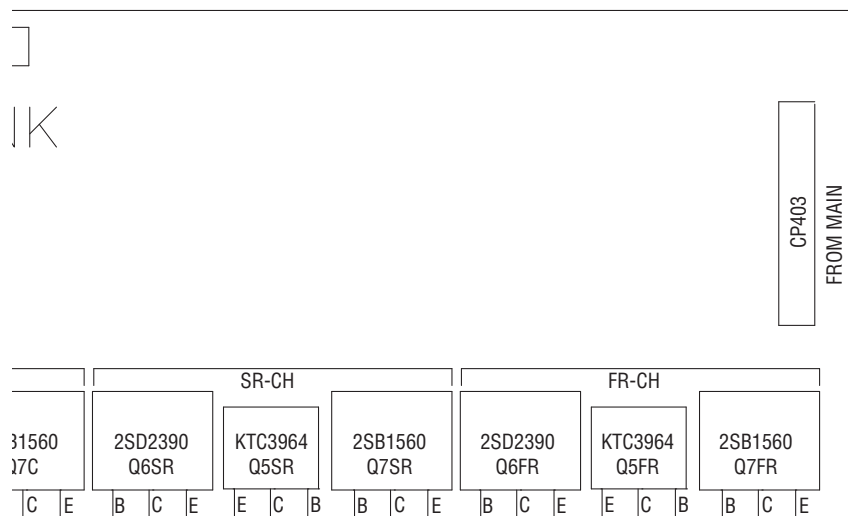
G2/2 AMP5 ASSY **(VSX-830-K/CUXESM, VSX-45/CUXE,** **VSX-830-K,-S/SYXEV8: 7028074541040)** **(VSA-830/JXEV: 7028074541060)**



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

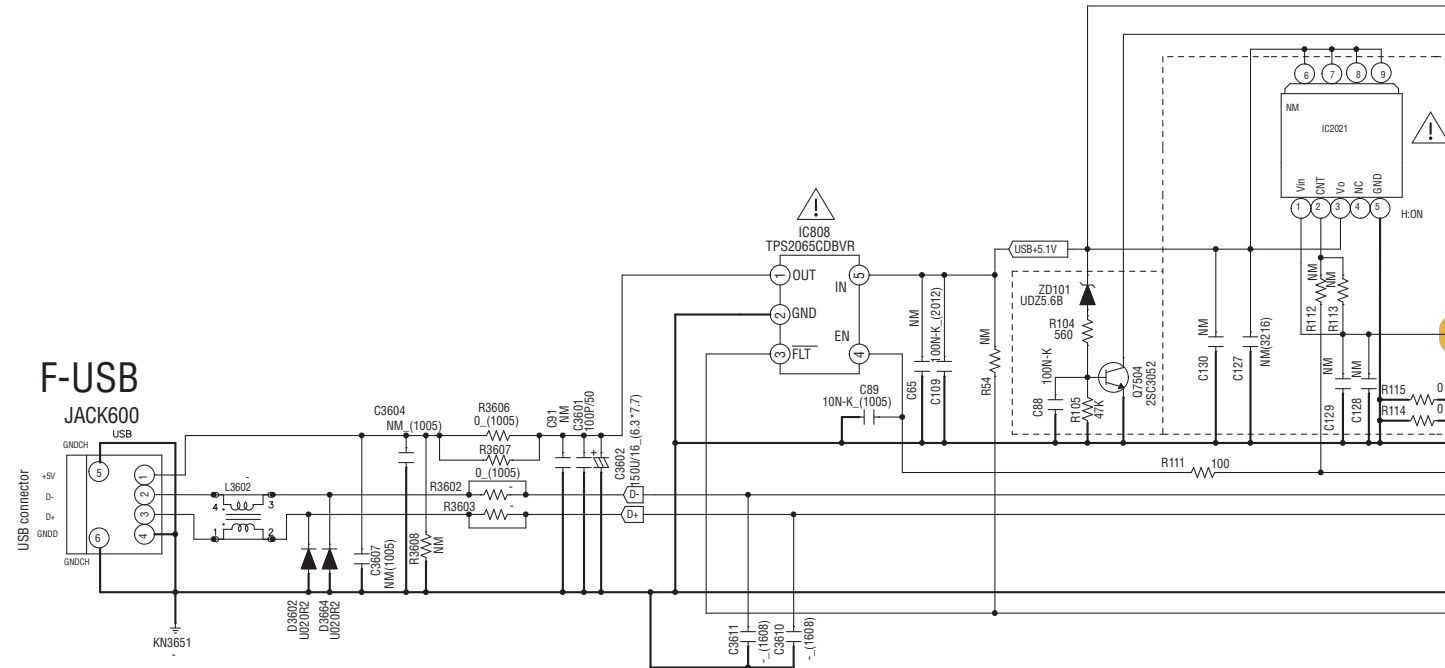
The $\triangle$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

$\triangle$ 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。



VSX-830-K

10.18 FUSB ASSY



H FUSB ASSY

(VSX-830-K/CUXESM: 7028077731040)
 (VSX-45/CUXE: 7028077781010)
 (VSX-830-K,-S/SYXEV8: 7028077781030)
 (VSA-830/JXEV: 7028077731050)

A

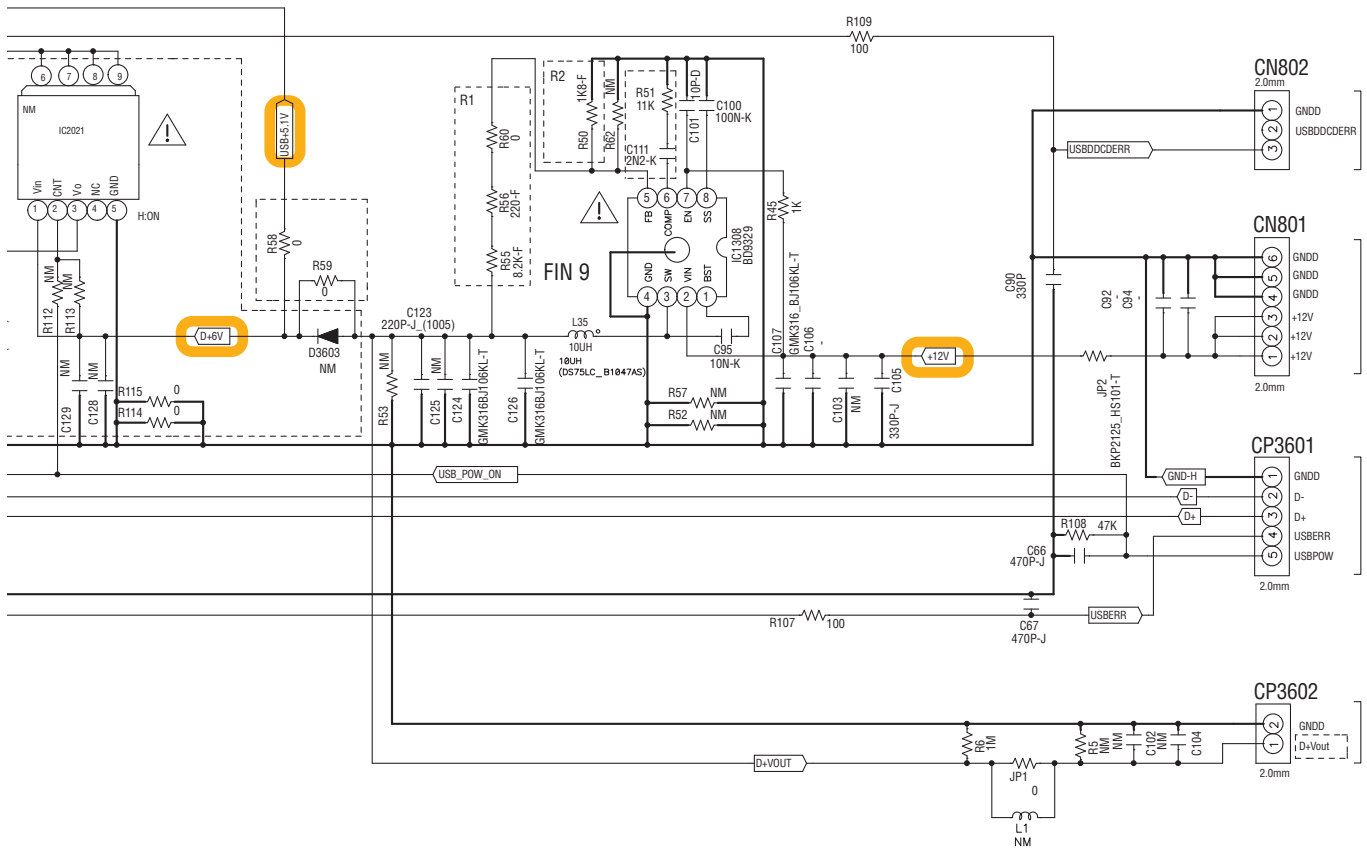
B

C

D

E

F



The  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.

 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。

10.19 NTC, FRONT, HPMIC and INSEL ASSSYS

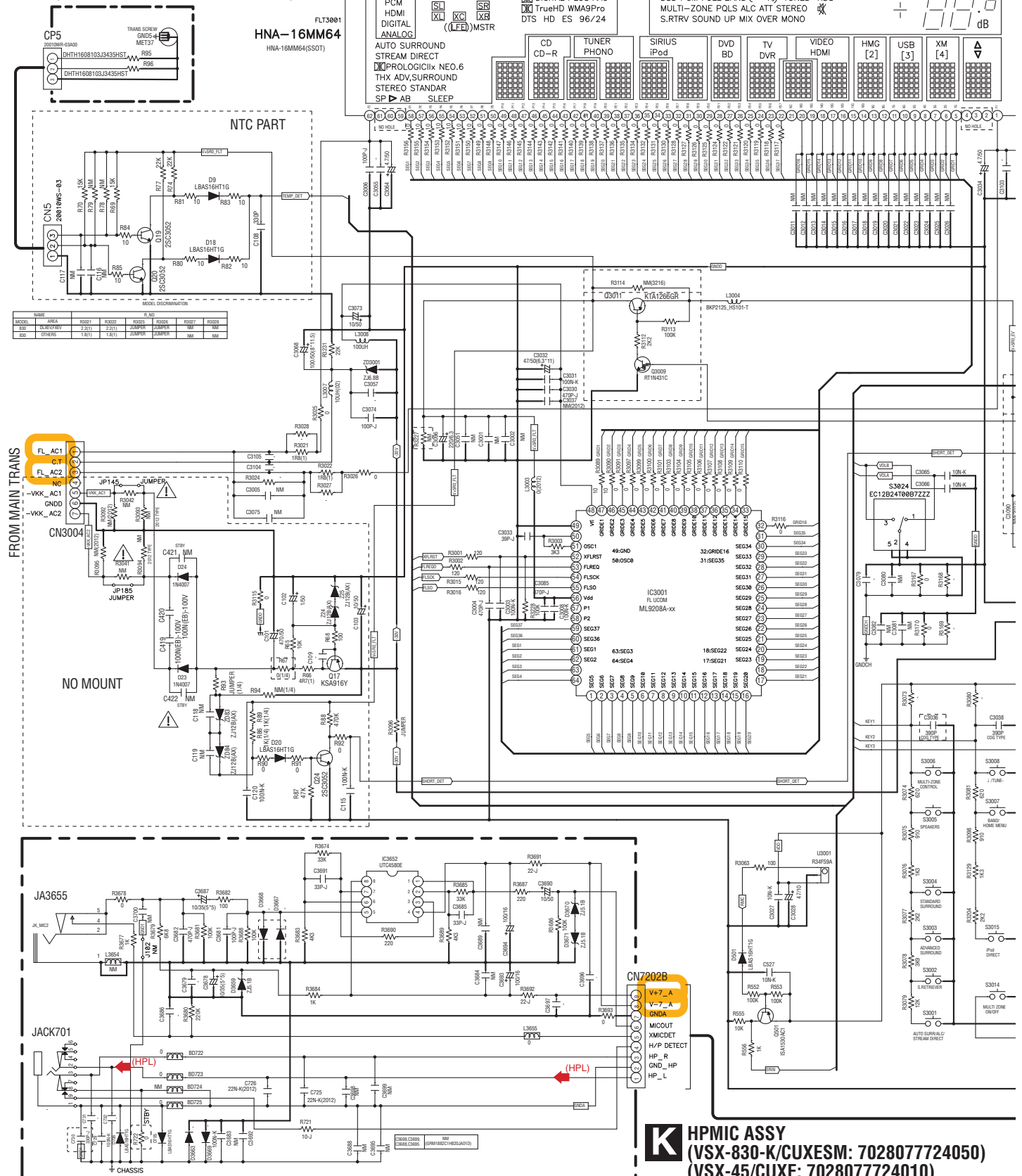
NTC ASSY

(VSX-830-K/CUXESM: 7028077725050)

(VSX-45/CUXE: 7028077725010)

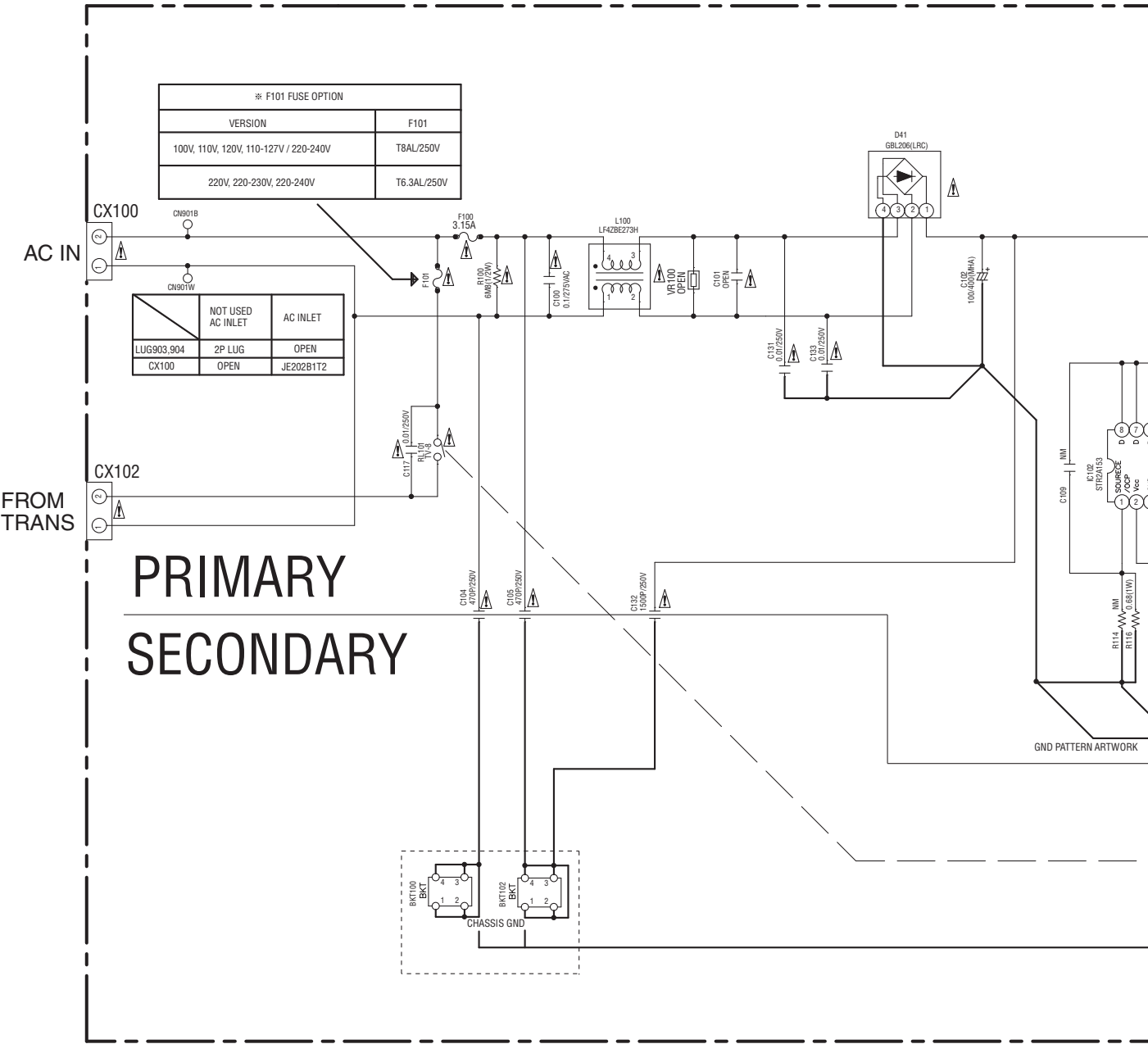
(VSX-830-K,-S/SYXEV8: 7028077725040)

(VSA-830/JXEV: 7028077725060)



10.20 SMPS ASSY

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



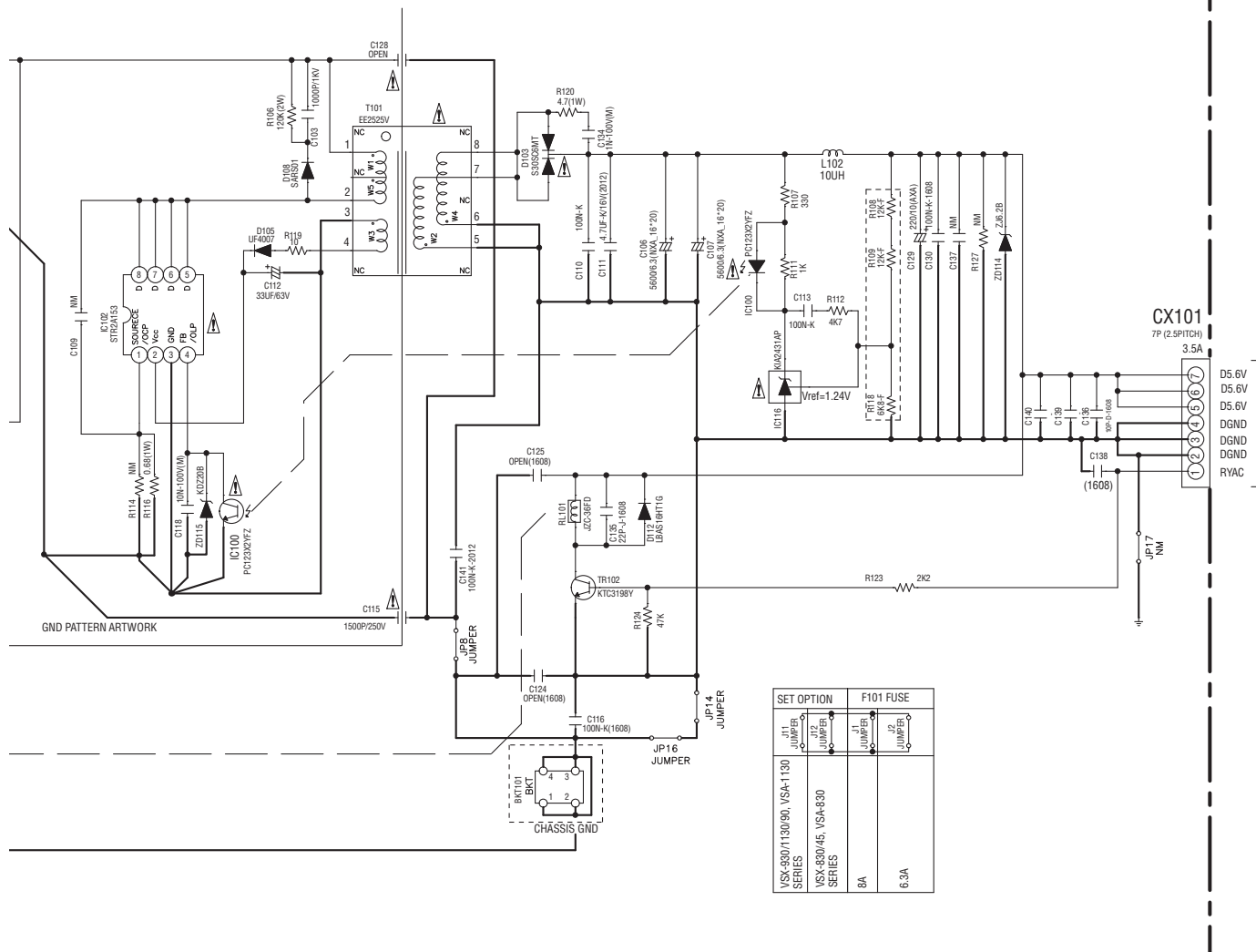


SMPS ASSY

(VSX-830-K/CUXESM, VSX-45/CUXE: 70280733610GA)

(VSX-830-K,-S/SYXEV8: 70280733610HA)

(VSA-830/JXEV: 70280733610IA)



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.

The 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.

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。

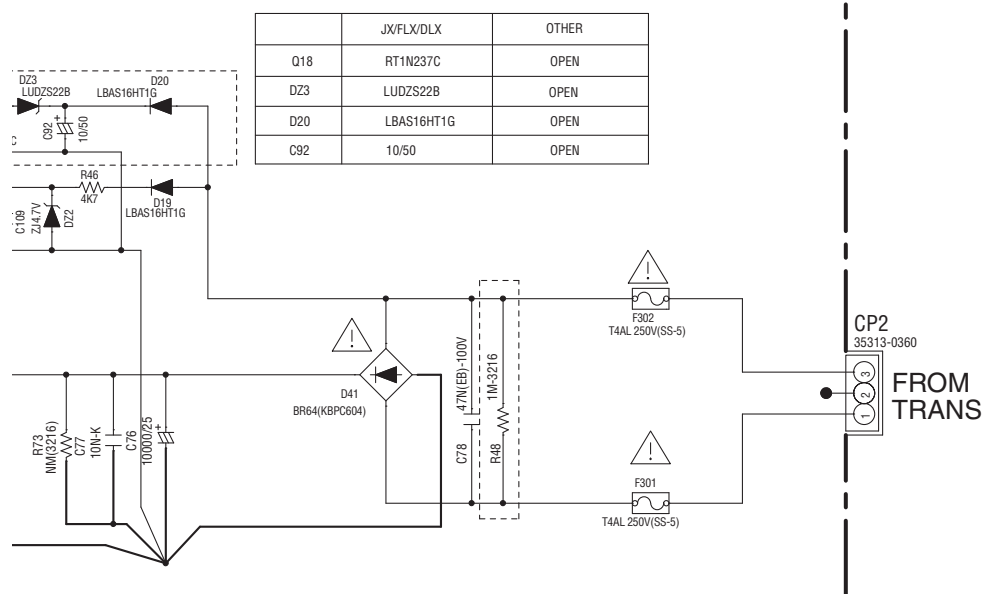
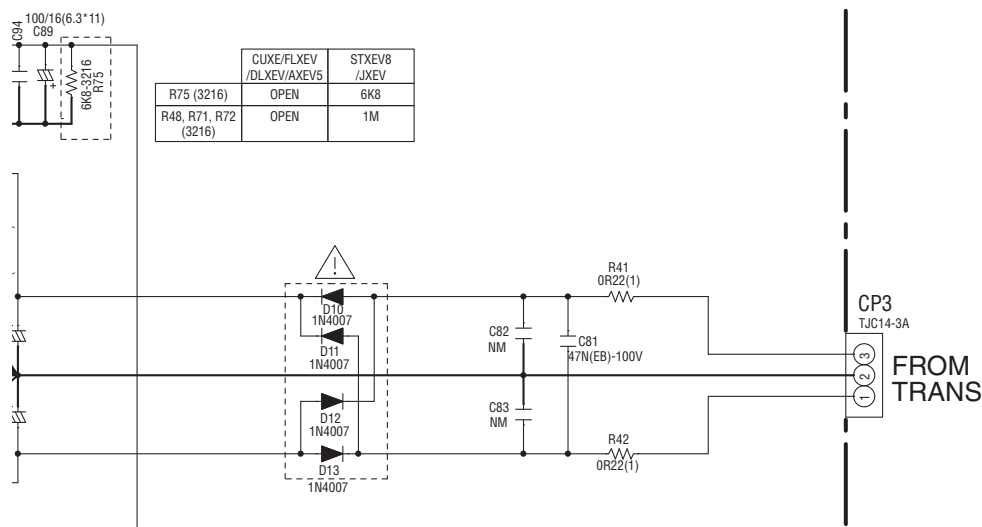
4

F



40

REG ASSY (VSX-830-K/CUXESM: 7028077712030) (VSX-45/CUXE: 7028077712010) (VSX-830-K,-S/SYXEV8: 7028077712020) (VSA-830/JXEV: 7028077712040)



- 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.

The 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.

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。

• NOTE FOR FUSE REPLACEMENT

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

11. PCB CONNECTION DIAGRAM

11.1 MAIN ASSY

SIDE A

VSX-45 ONLY

D CP402

CN403

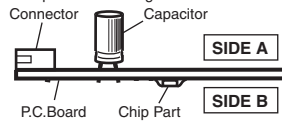
TO
MAIN TRANS

CP1

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.

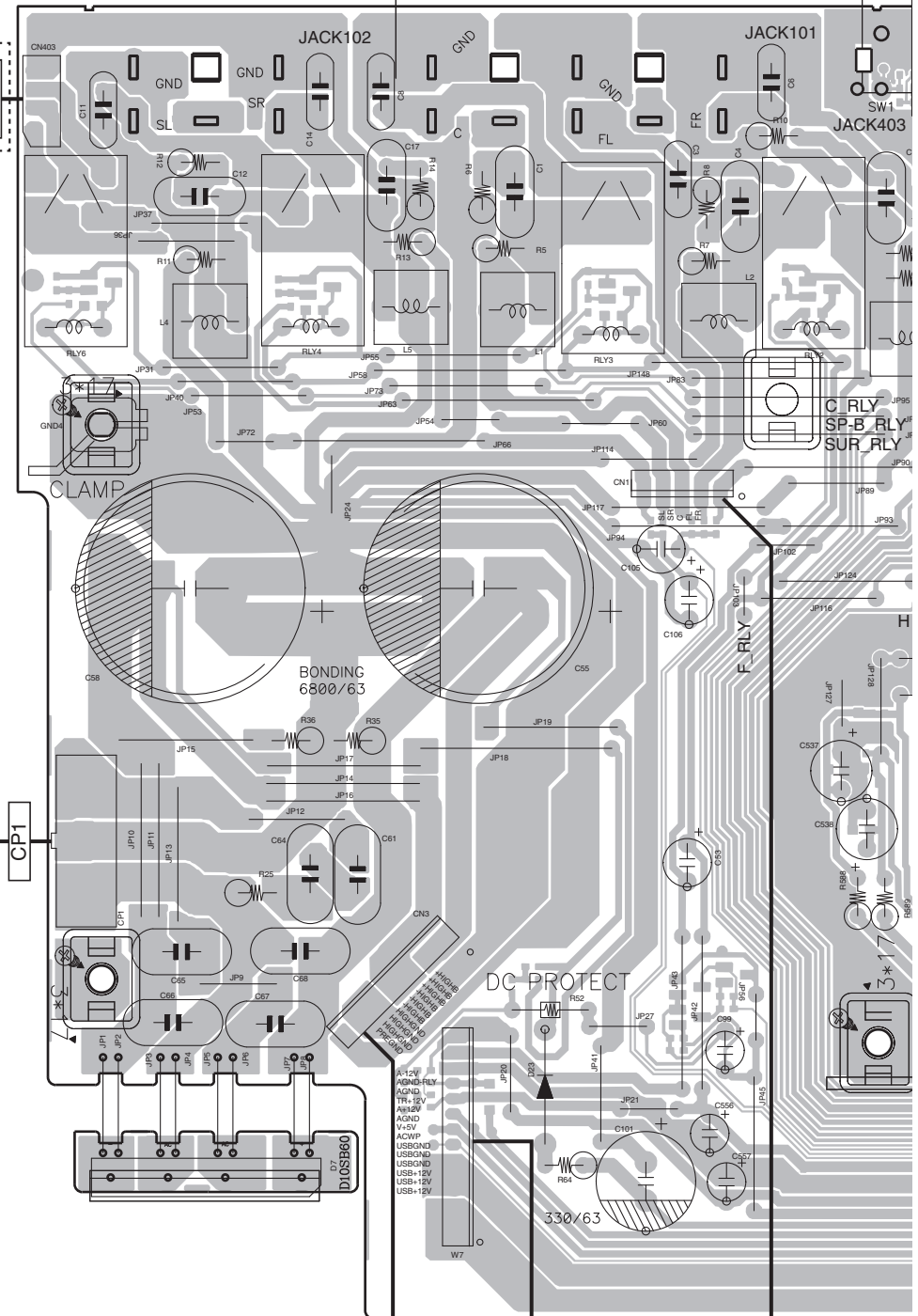
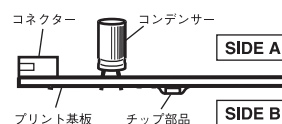
2. View point of PCB diagrams.



PCB 図に対する注意

1. この PCB 図にマウントしている部品は複数の仕向地の部品を含んでいます。各仕向地の情報は、回路図で確認するようにしてください。

2. PCB 図の見かた。



G CP403

N CP7

G CP402

VSX-830-K

A

E



□

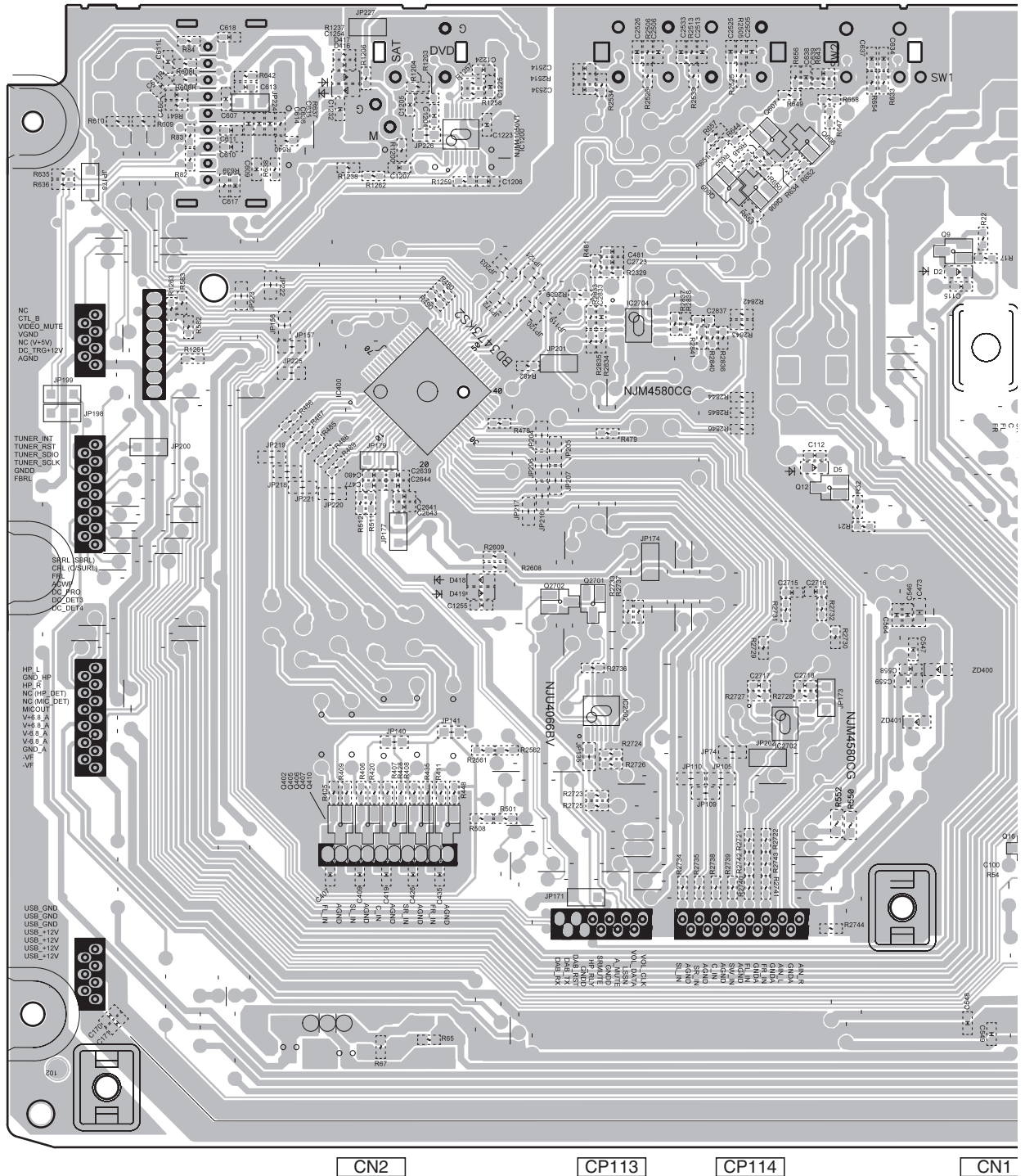
F

F

43

SIDE B

A MAIN ASSY



CN2

CP113

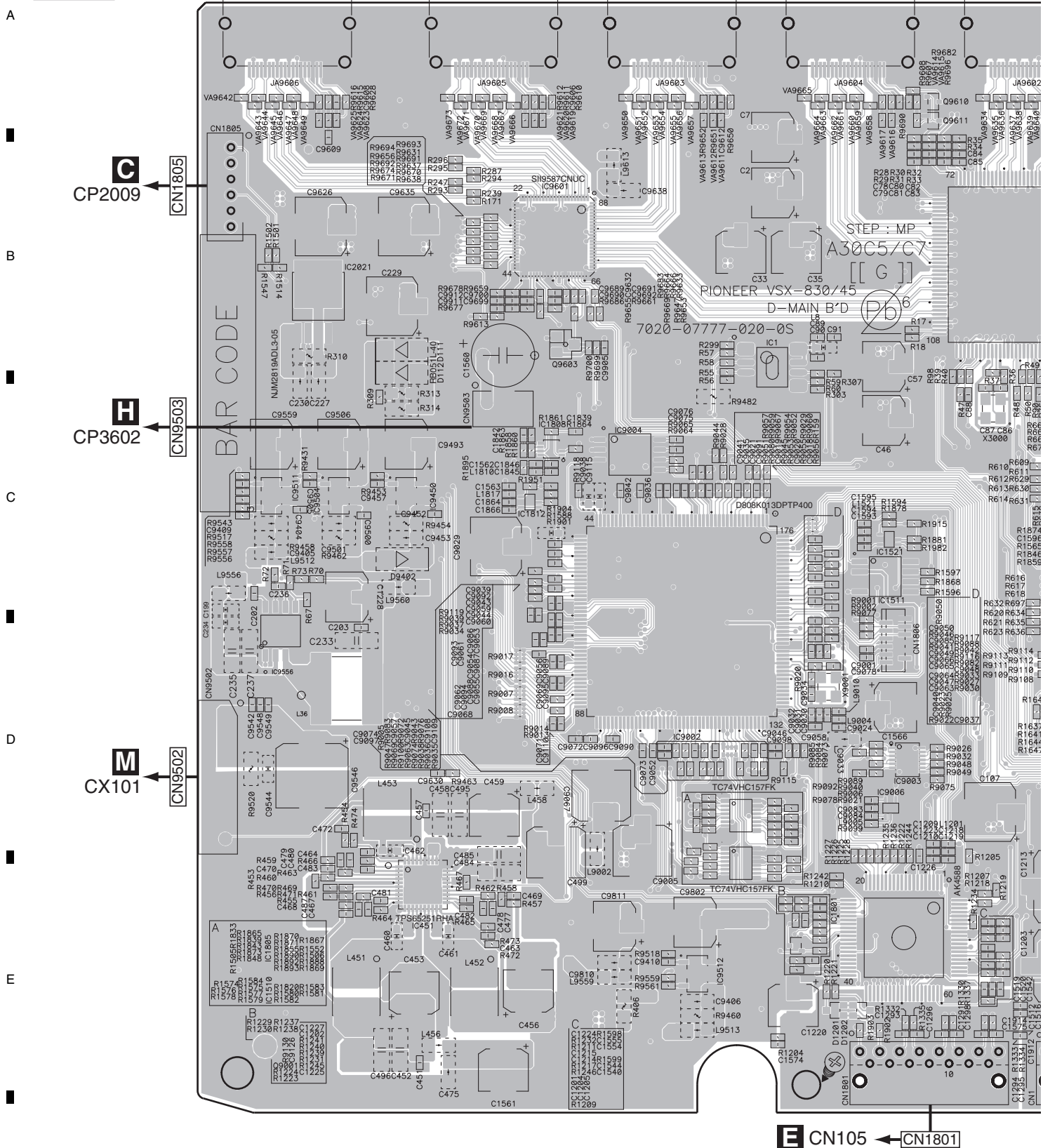
CP114

CN1

VSX-830-K

A

44

SIDE A

E CN105 ← CN1801

	IC9558	IC2021	IC451	Q9603 IC9601	IC9004	IC9002	IC1	IC1805 IC1510	IC1521 IC1511	Q9610 Q9611	IC16C
						IC9512			IC9006 IC1801		

VSX-830-K

SIDE A

B DMAIN ASSY

NETWORK
MODULE

H
CP3601

F
CN303B

F
CN302

F CP115**F** CN301

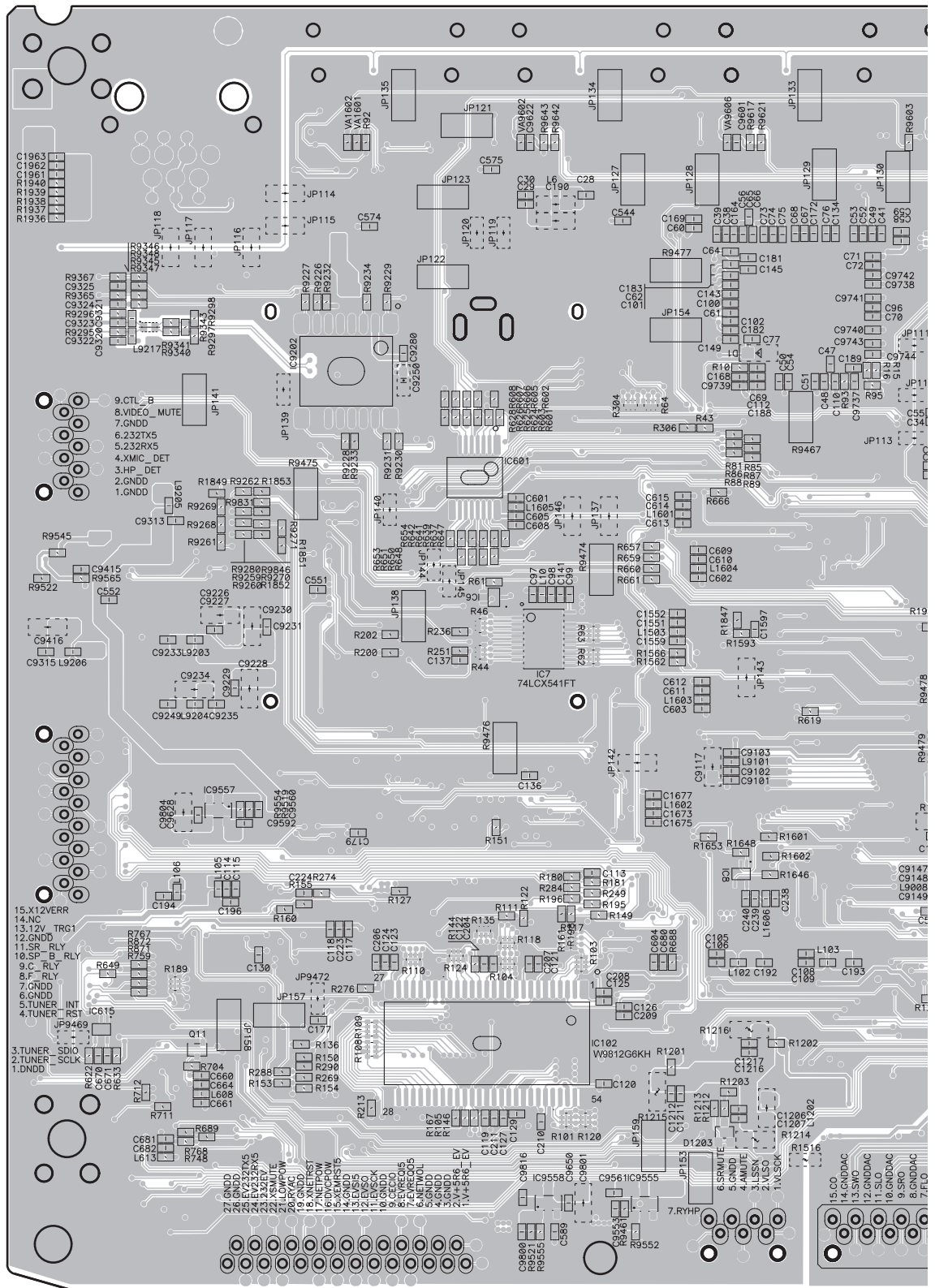
Q9610		Q9608		Q9606		IC9206	IC1605		IC9503
Q9611	IC1602	Q9609		Q9607	IC107	IC105		IC608 Q12	IC611
		IC604		IC103		IC9208		IC614 IC613	IC610
I3		IC602						Q6Q10 Q5 Q13	
		IC1509		IC101					
1		IC603							
		IC9101							
		IC1601	IC612	Q9601					

VSX-830-K

B

SIDE B

B D MAIN ASSY



B

48

IC615

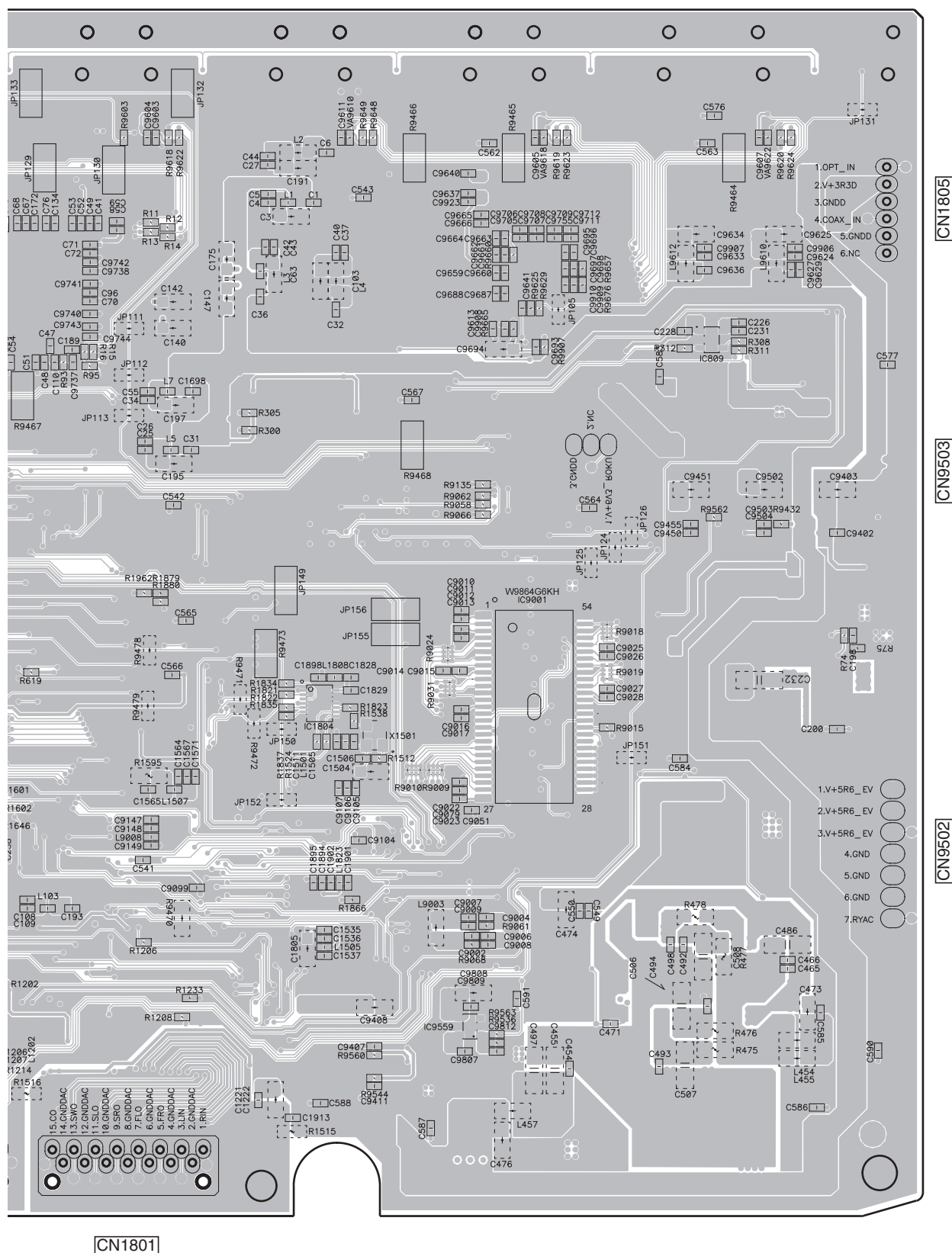
IC9557
Q11

IC9202

IC601
IC7
IC102
IC9558

VSX-830-K

SIDE B



A

B

C

D

E

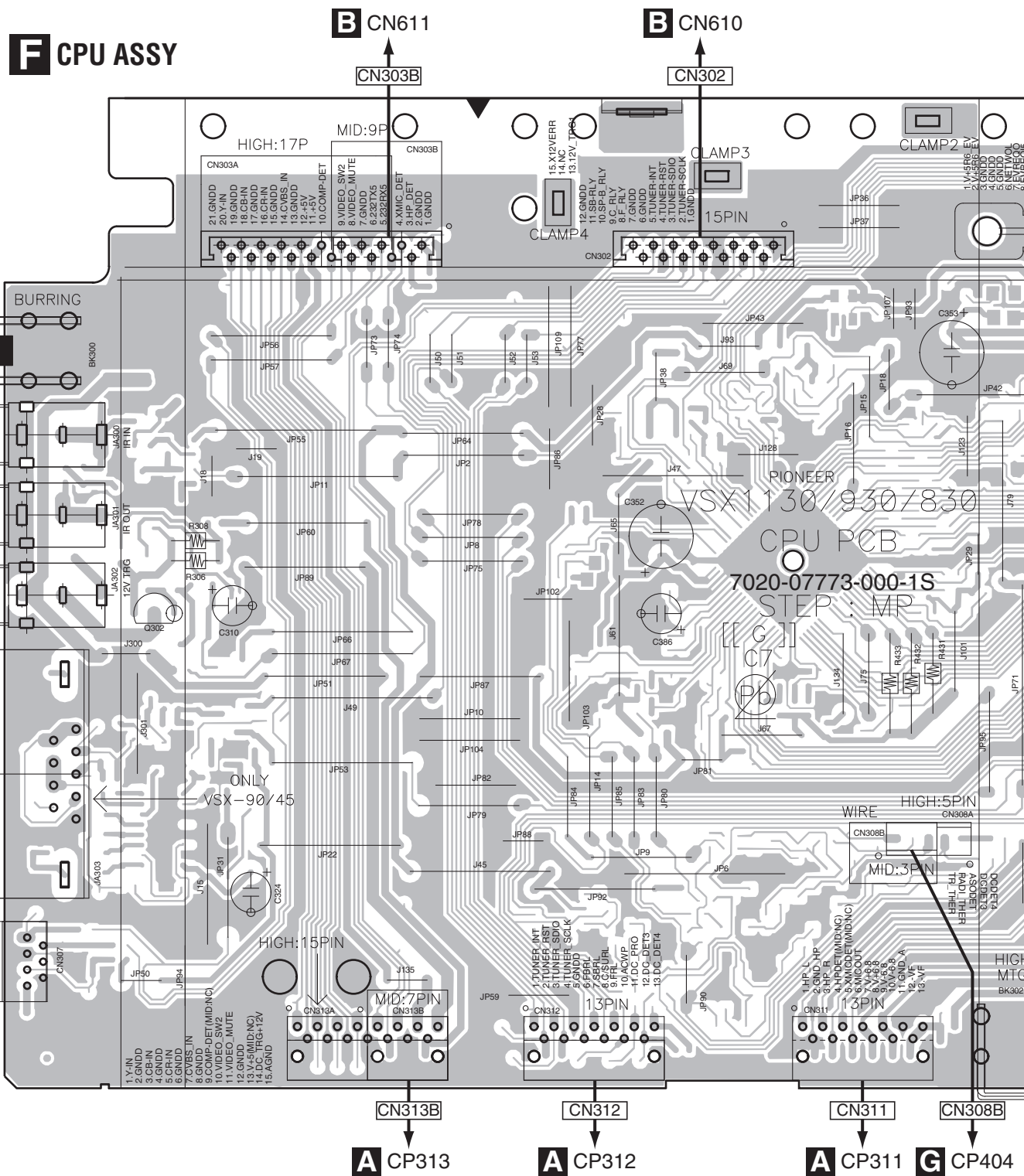
F

B

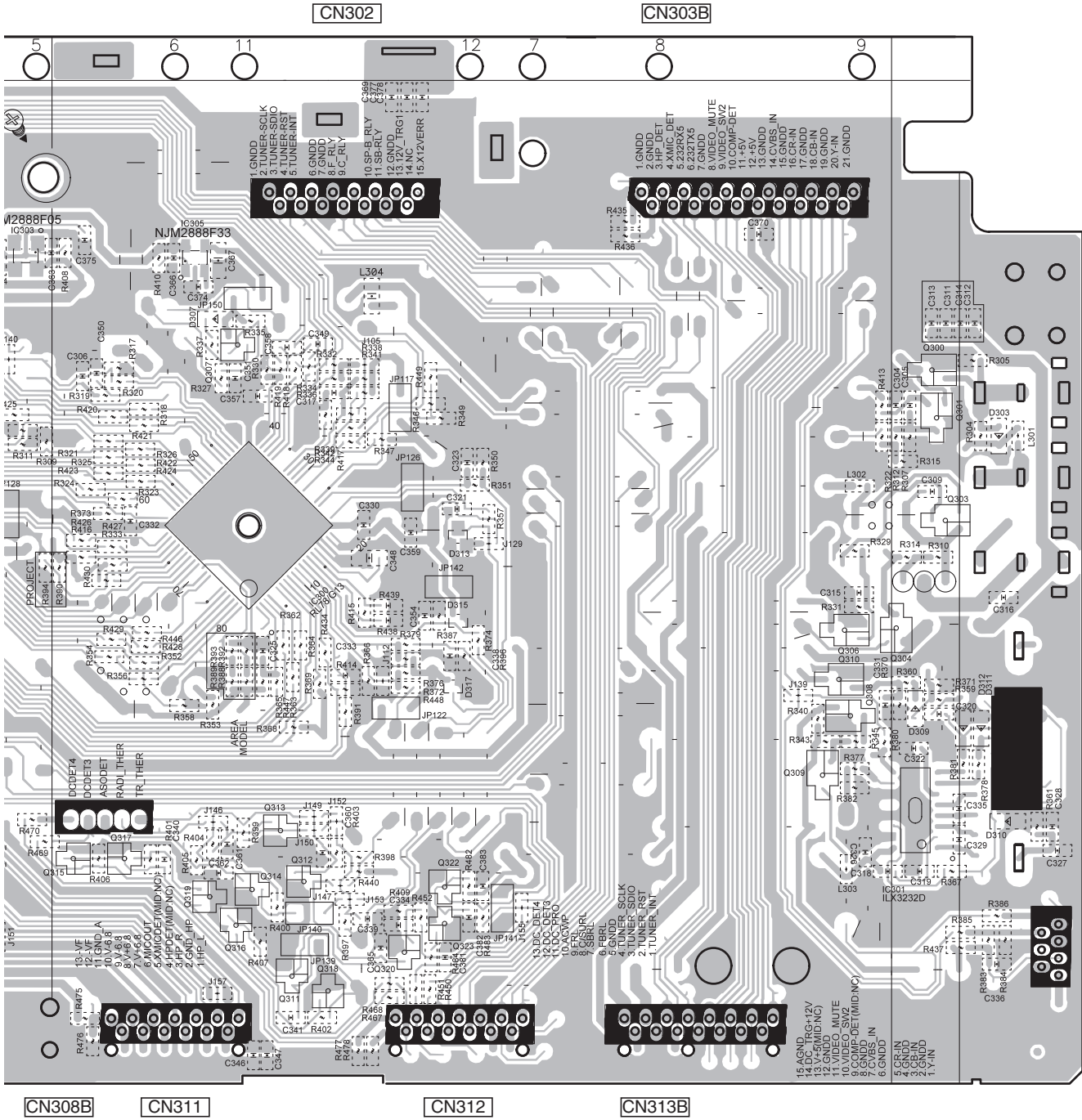
11.5 CPU ASSY

SIDE A

F CPU ASSY



F



IC303	Q315	Q317	IC305	Q307	IC300	Q313	Q300
			Q319	Q314	Q312	Q322	Q301
			Q316	Q311	Q320	Q323	Q303
			Q318				Q308
							Q309
							IC301

11.6 AMP5 ASSY

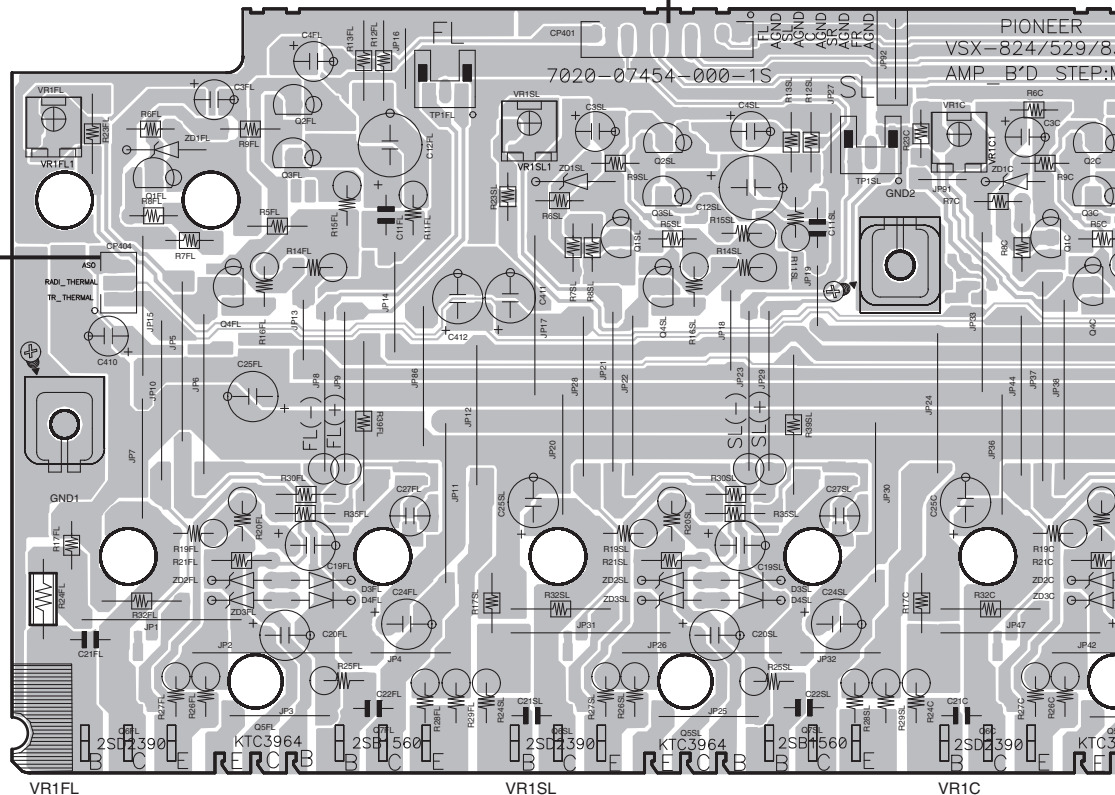
SIDE A

AMP5 ASSY

CP404

CP401

CN2

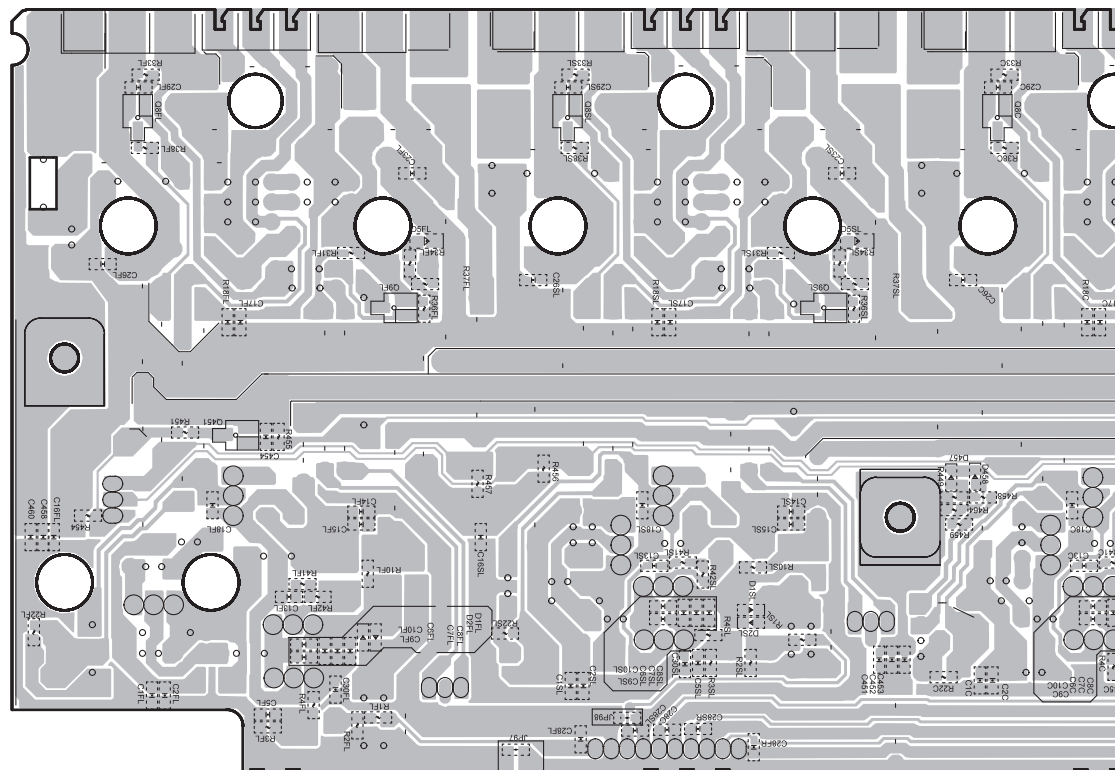


VR1FL VR1SL VR1C Q1FL Q4FL Q2FL Q3FL Q1SL Q3SL Q2SL Q3SL Q1C Q3C Q2C Q3C Q4C Q6FL Q5FL Q7FL Q6SL Q5SL Q7SL Q6C

SIDE B

CP404

CP401



Q8FL Q451 Q9FL Q8SL Q9SL Q8C

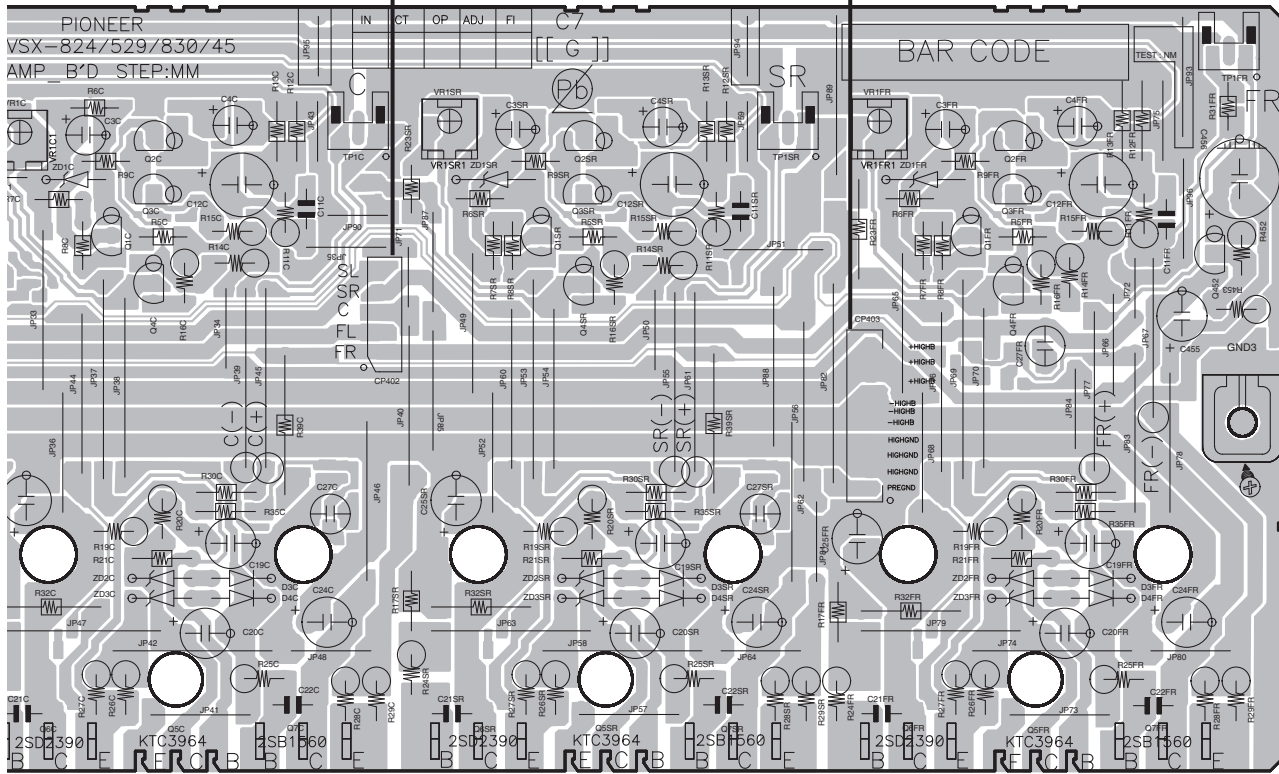
G

AMP5 ASSY

CP402 → A CN1

CP403 → A CN3

SIDE A



R1C R1SR R1FR R1Q

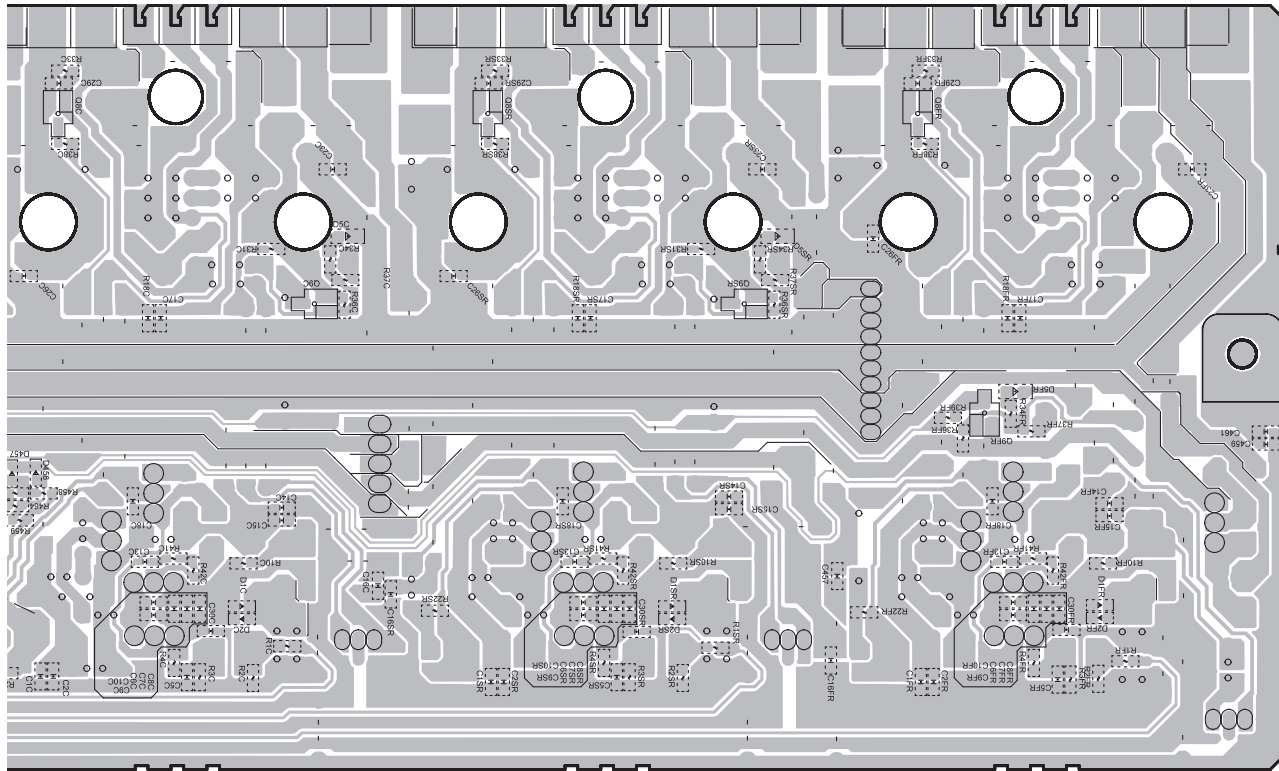
Q1C Q2C Q3C Q4C Q5C Q6C Q7C Q8C Q9C

Q1SR Q2SR Q3SR Q4SR Q5SR Q6SR Q7SR Q8SR Q9SR

Q1FR Q2FR Q3FR Q4FR Q5FR Q6FR Q7FR Q8FR Q9FR

Q1Q Q2Q Q3Q Q4Q Q5Q Q6Q Q7Q Q8Q Q9Q

SIDE B



CP402 CP403

Q8C Q9C Q8SR Q9SR Q8FR Q9FR

VSX-830-K

G

57

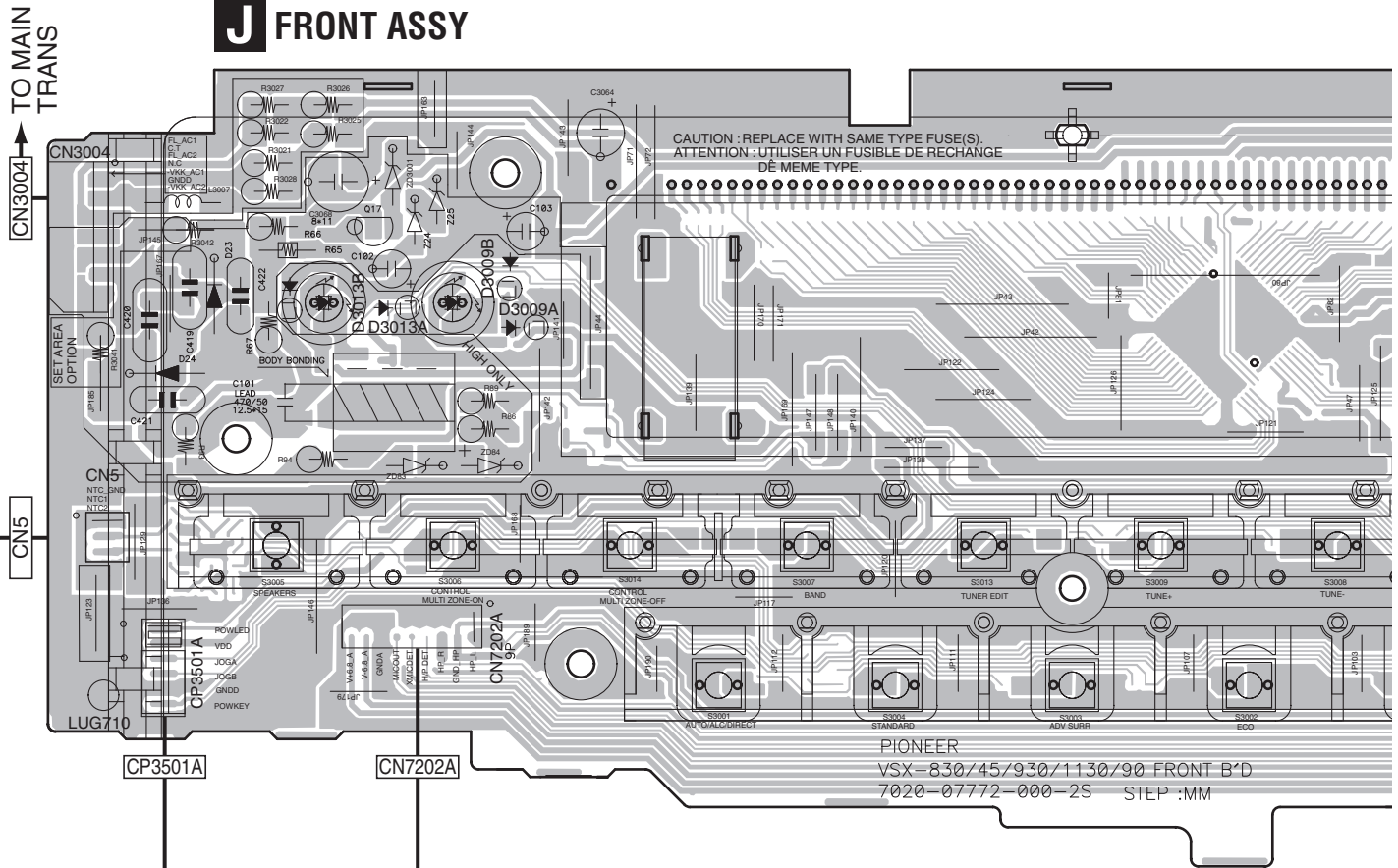
11.7 FUSB, NTC, FRONT, HPMIC and INSEL ASSYS

SIDE A

A

Q17

J FRONT ASSY



B

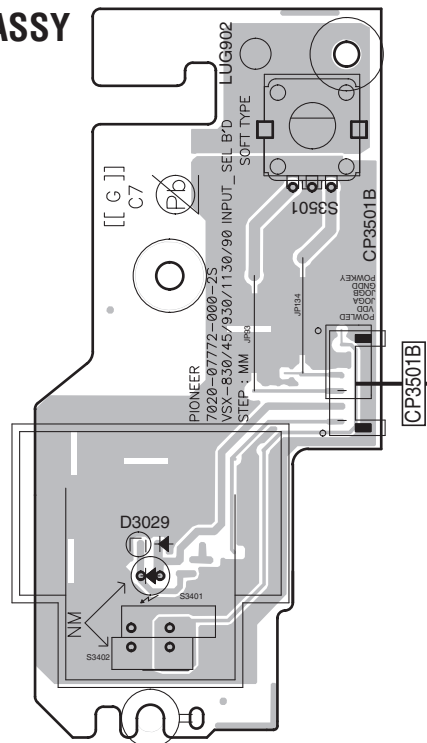
C

D

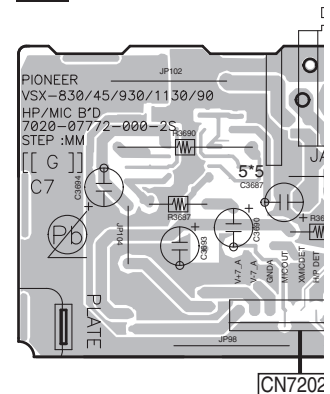
E

F

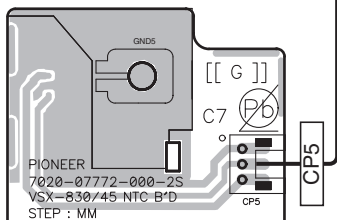
L INSEL ASSY



K HPMIC ASSY



I NTC ASSY



I J K L

SIDE B

A

Q3007
Q3014
Q501

Q3012
Q3005

IC3002

IC30I

J FRONT ASSY

B

C

D

E

F

CN3001

CP3002

H FUSB ASSY

CP3601

CN802

CP3602

CN801

F

Q7504

K HPMIC ASSY

CN7202B

IC3652

IC3001

Q24

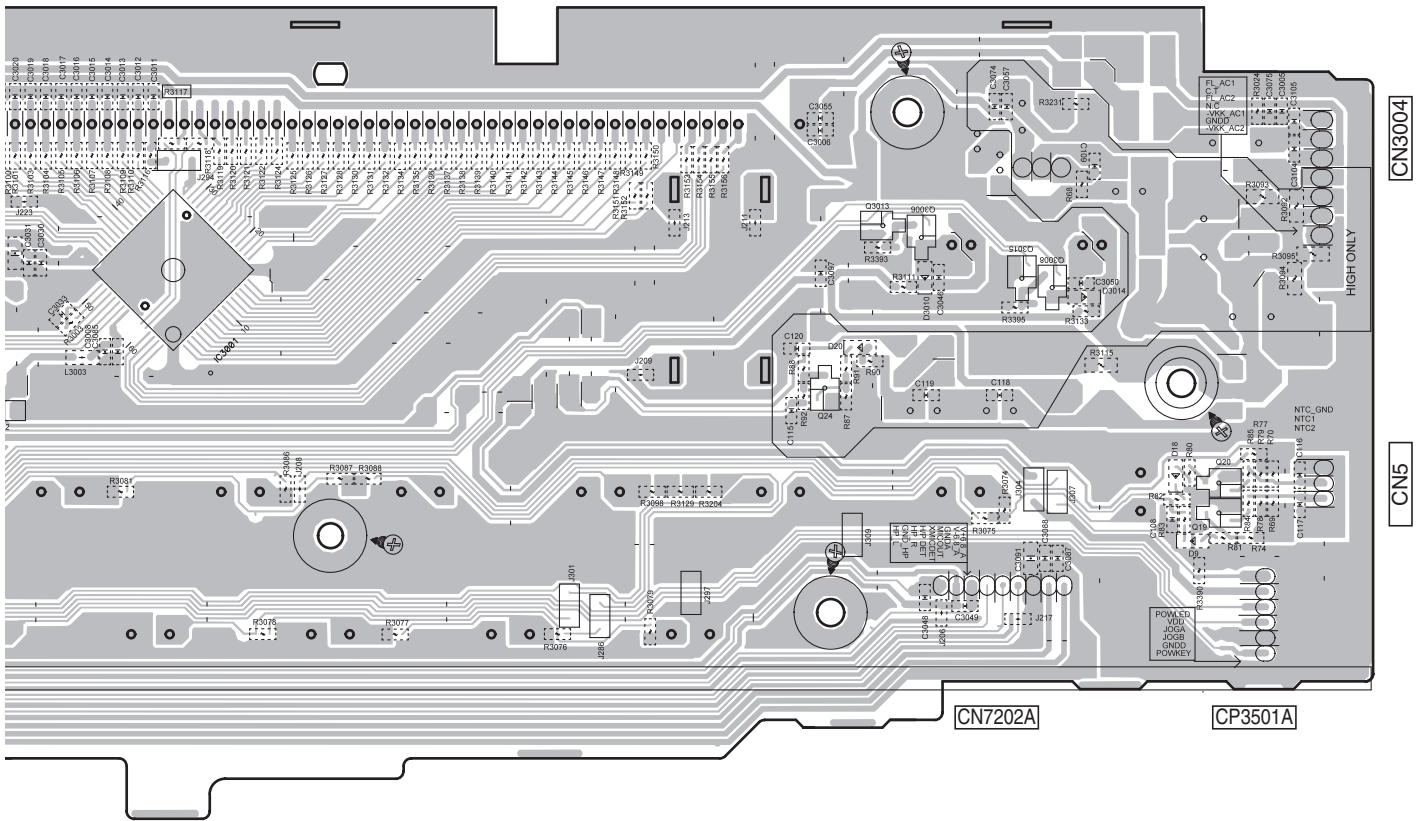
Q3013 Q3006

Q3015 Q3008

Q20
Q19

SIDE B

A



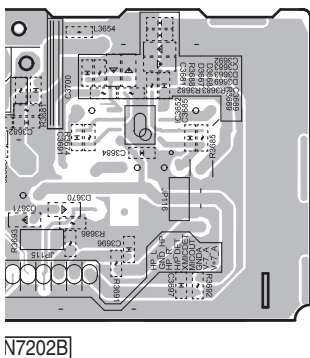
B

C

D

E

F

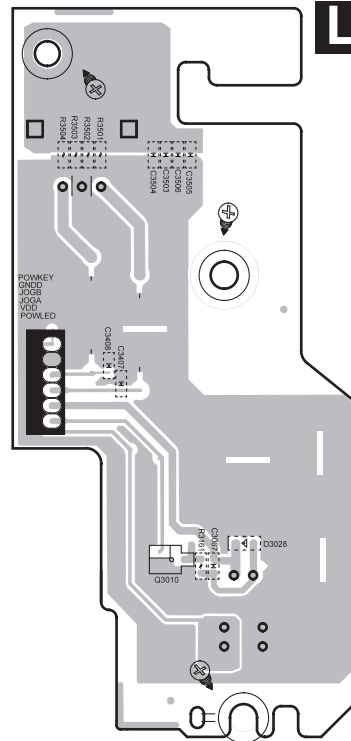


IC3652

Q3010

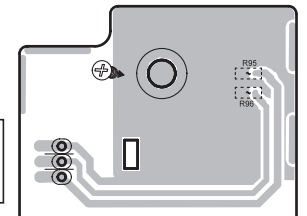
CP3501B

L INSEL ASSY



I NTC ASSY

CP5



I J K L

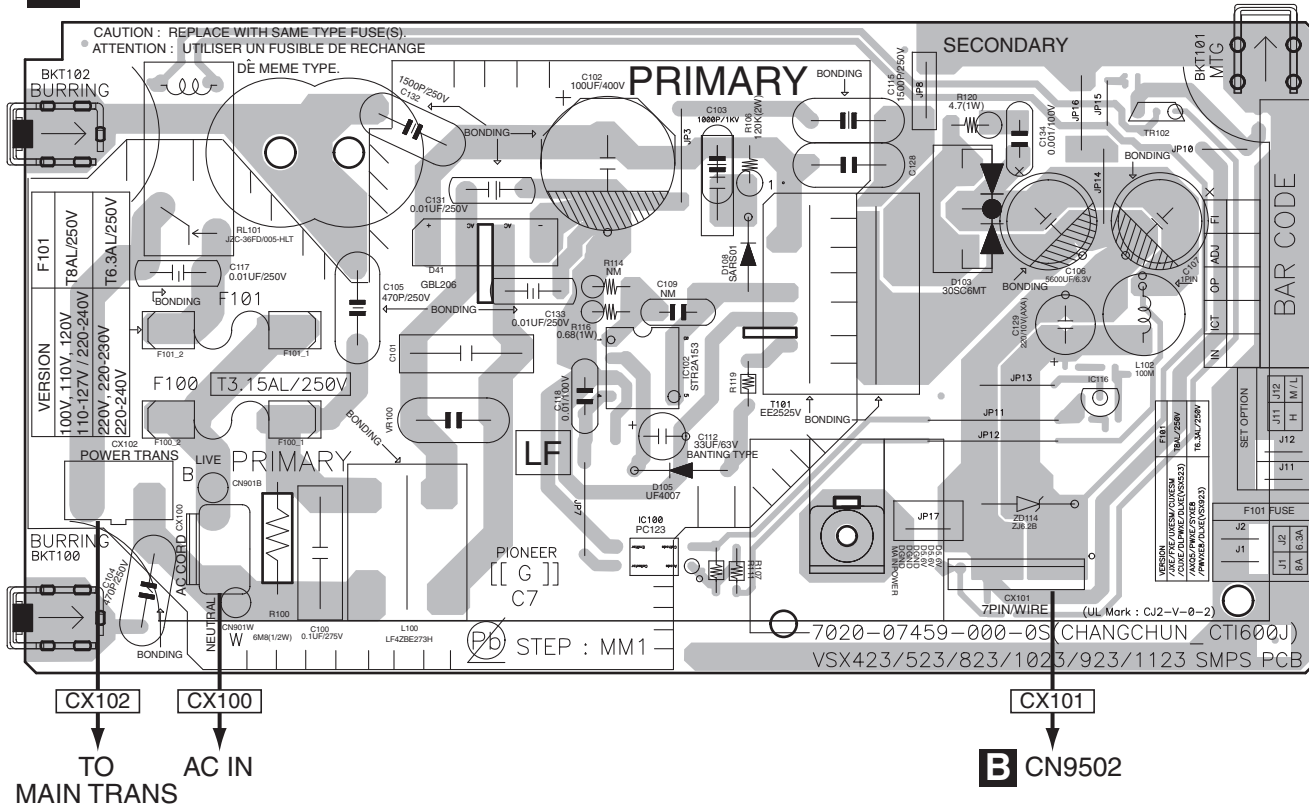
VSX-830-K

11.8 SMPS ASSY

SIDE A

SIDE A

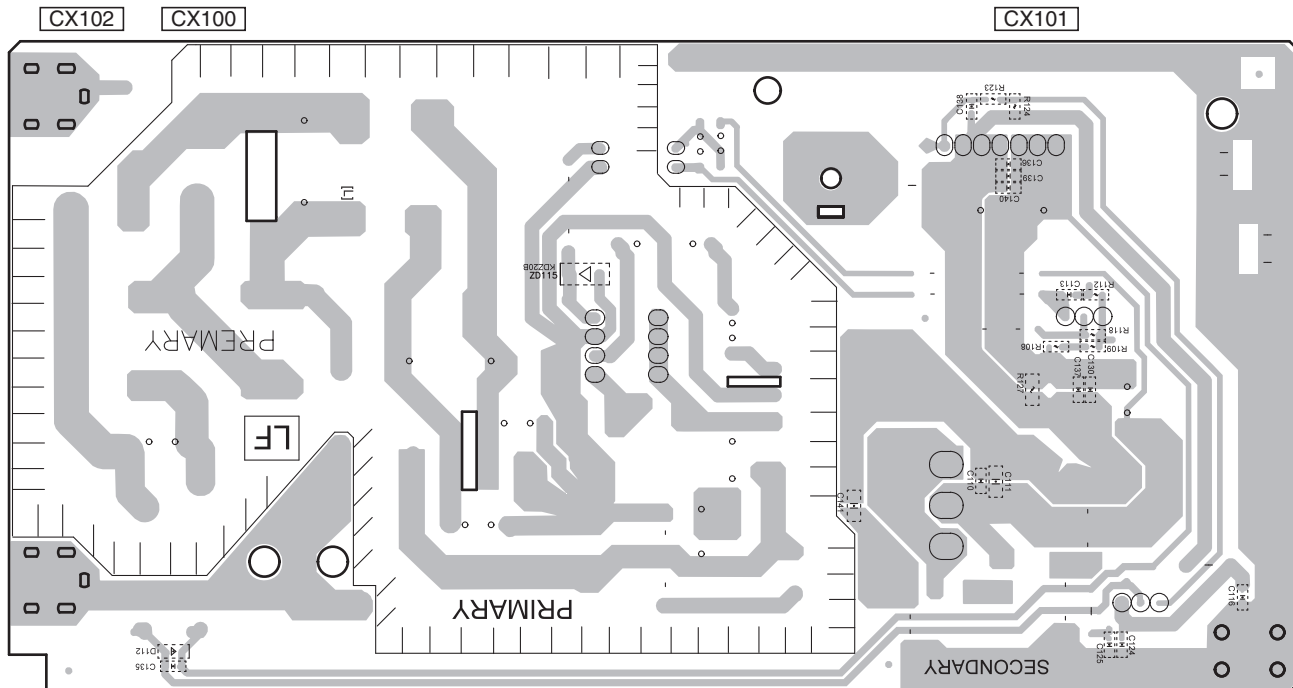
M SMPS ASSY



SIDE B

SIDE B

M SMPS ASSY

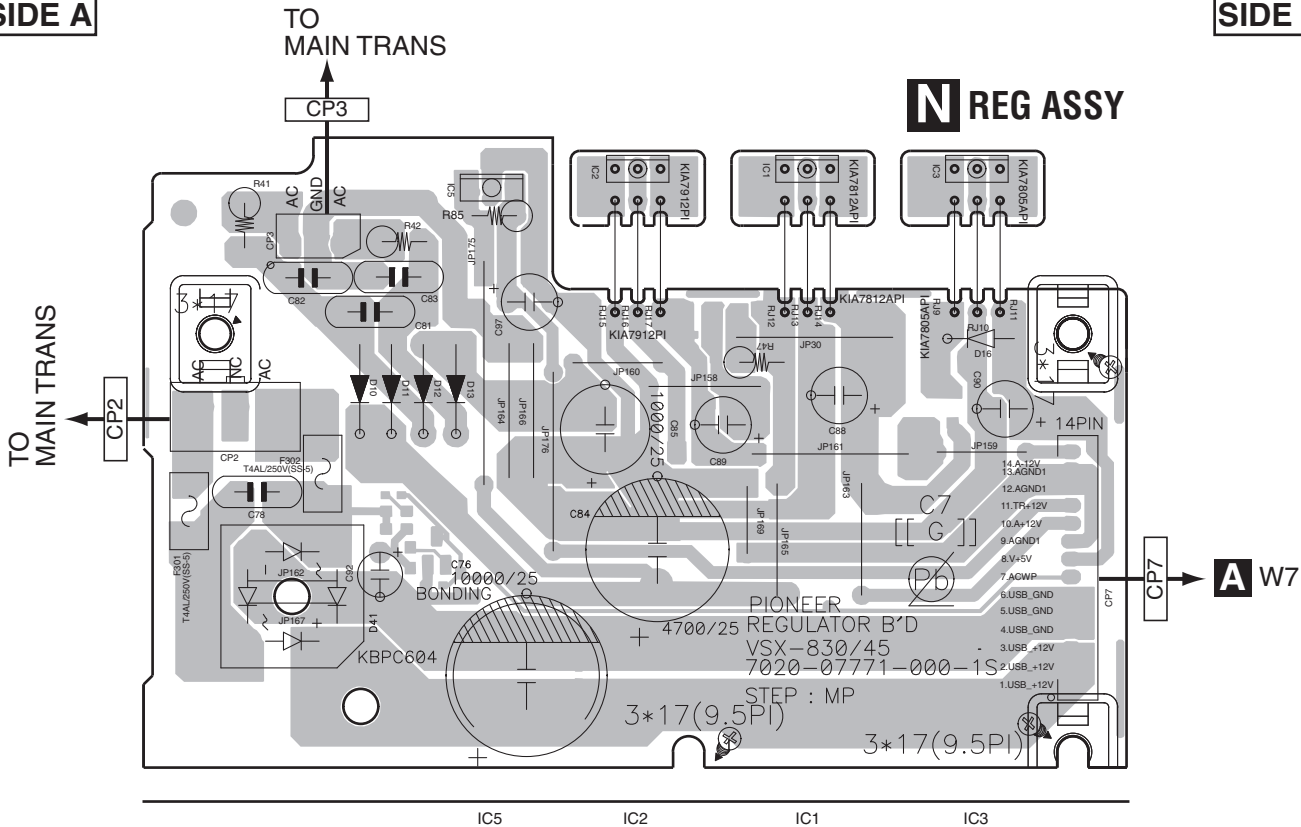


M

11.9 REG ASSY

SIDE A

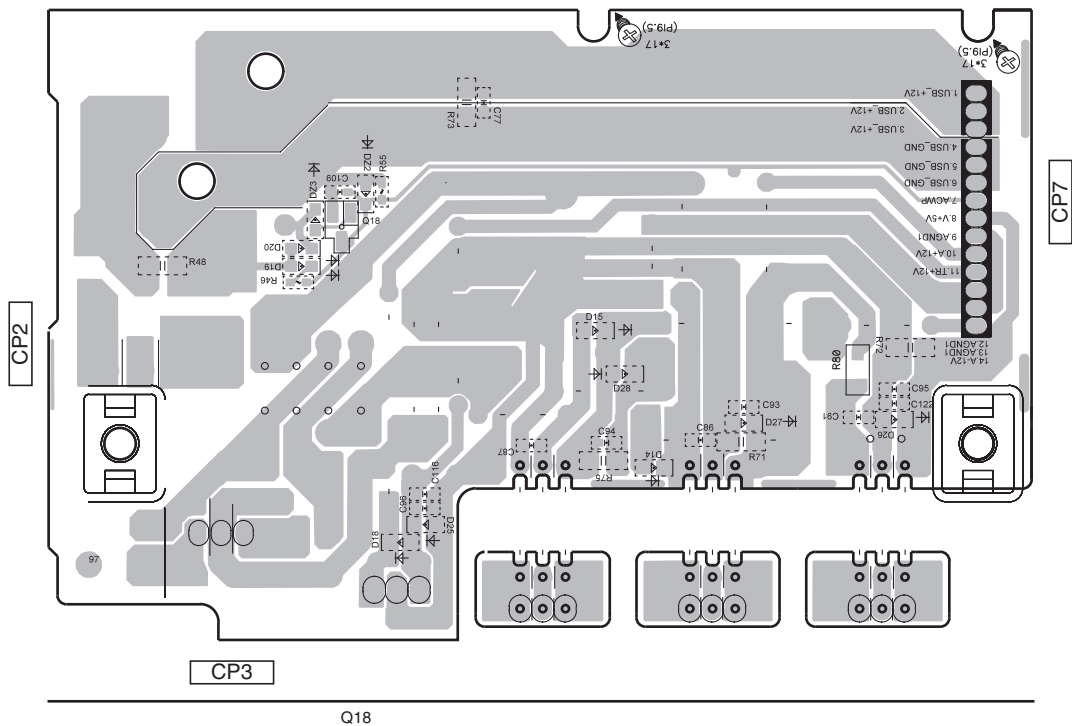
SIDE A



SIDE B

SIDE B

N REG ASSY



N

12. PCB PARTS LIST

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

● The $\triangle$ 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 $\rightarrow$ 56×10^1 $\rightarrow$ 561.....RD1/4PU $\begin{matrix} 5 & 6 & 1 \end{matrix}$ J

47 k Ω $\rightarrow$ 47×10^3 $\rightarrow$ 473.....RD1/4PU $\begin{matrix} 4 & 7 & 3 \end{matrix}$ J

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

1 Ω $\rightarrow$ 1R0.....RSIP $\begin{matrix} 1 & R & 0 \end{matrix}$ K

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

5.62 k Ω $\rightarrow$ 562×10^1 $\rightarrow$ 5621.....RN1/4PC $\begin{matrix} 5 & 6 & 2 & 1 \end{matrix}$ 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-830-K /CUXESM	VSX-45 /CUXE	VSX-830-K /SYXEV8	VSX-830-S /SYXEV8	VSA-830 /JXEV
NSP	1..PCB TTL ASSY MAIN	7025HK1402010	7025HK1402020	7025HK1402030	7025HK1402040	7025HK1402050
	2..MAIN ASSY (PCB SUB ASSY MAIN)	7028077711030	7028077711010	7028077711020	7028077711020	7028077711040
	2..REG ASSY (PCB SUB ASSY REG)	7028077712030	7028077712010	7028077712020	7028077712020	7028077712040
	2..CONCT ASSY (PCB SUB ASSY CONCT)	7028077713030	7028077713010	7028077713020	7028077713020	7028077713040
	2..G-R ASSY (PCB SUB ASSY G-R)	7028077714030	7028077714010	7028077714020	7028077714020	7028077714040
NSP	1..PCB TTL ASSY DMAIN	7025HK1402011	7025HK1402021	7025HK1402031	7025HK1402041	7025HK1402051
	2..DMAIN ASSY (PCB SUB ASSY DMAIN)	7028077771030	7028077771010	7028077771020	7028077771020	7028077771040
	2..NETWORK MODULE	AXX7293	AXX7293	AXX7293	AXX7293	AXX7293
NSP	1..PCB TTL ASSY FRONT	7025HK1402012	7025HK1402022	7025HK1402032	7025HK1402042	7025HK1402052
	2..FRONT ASSY (PCB SUB ASSY FRONT)	7028077721050	7028077721010	7028077721040	7028077721040	7028077721060
	2..INSEL ASSY (PCB SUB ASSY INSEL)	7028077722050	7028077722010	7028077722040	7028077722040	7028077722060
	2..OPTCO ASSY (PCB SUB ASSY OPTCO)	7028077723050	7028077723010	7028077723040	7028077723040	7028077723060
	2..HPMIC ASSY (PCB SUB ASSY HPMIC)	7028077724050	7028077724010	7028077724040	7028077724040	7028077724060
	2..NTC ASSY (PCB SUB ASSY NTC)	7028077725050	7028077725010	7028077725040	7028077725040	7028077725060
	2..G-L ASSY (PCB SUB ASSY G-L)	7028077726050	7028077726010	7028077726040	7028077726040	7028077726060
NSP	1..PCB TTL ASSY CPU	7025HK1402013	7025HK1402023	7025HK1402033	7025HK1402043	7025HK1402053
	2..CPU ASSY (PCB SUB ASSY CPU)	7028077731050	7028077731010	7028077731040	7028077731040	7028077731060
	2..SP-B ASSY (PCB SUB ASSY SP-B)	Not used	7028077732010	Not used	Not used	Not used
NSP	1..PCB TTL ASSY AMP5	7025HK1402014	7025HK1402024	7025HK1402034	7025HK1402044	7025HK1402054
	2..AMP5 ASSY (PCB SUB ASSY AMP5)	7028074541040	7028074541040	7028074541040	7028074541040	7028074541060
	2..WG ASSY (PCB SUB ASSY WG)	7028074542040	7028074542040	7028074542040	7028074542040	7028074542060
NSP	1..PCB TTL ASSY SMPS	7025HK1402015	7025HK1402025	7025HK1402035	7025HK1402045	7025HK1402055
$\triangle$	2..SMPS ASSY (PCB SUB ASSY SMPS)	70280733610GA	70280733610GA	70280733610HA	70280733610HA	70280733610IA
NSP	1..PCB TTL ASSY FUSB	7025HK1402016	7025HK1402026	7025HK1402036	7025HK1402046	7025HK1402056
	2..FUSB ASSY (PCB SUB ASSY FUSB)	7028077781040	7028077781010	7028077781030	7028077781030	7028077781050

CONTRAST OF PCB ASSEMBLIES

A MAIN ASSY

7028077711030, 7028077711010, 7028077711020 and 7028077711040 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077711030	7028077711010	7028077711020	7028077711040
	RY6 Relay	Not used	G680060103010-IL	Not used	Not used
	601 Tuner_FM/AM	E903004100781S	E903004100781S	E903104100781S	Not used

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

B DMAIN ASSY

7028077711030, 7028077711010, 7028077711020 and 7028077711040 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077711030	7028077711010	7028077711020	7028077711040
	IC604	Not used	J040140940040S	Not used	Not used

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

C OPTCO ASSY

7028077723050, 7028077723010, 7028077723040 and 7028077723060 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.

E CONCT ASSY

7028077713030, 7028077713010, 7028077713020 and 7028077713040 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.

F CPU ASSY

7028077731050, 7028077731010, 7028077731020 and 7028077731060 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077731050	7028077731010	7028077731040	7028077731060
	IC301	Not used	J046323200020-IL	Not used	Not used
	Q302	Not used	J5000916Y0050-IL	Not used	Not used
	JA300-302 Jack_D3.5	Not used	G401PJ3080100-IL	Not used	Not used
	JA303 CN.Wafer Interface	Not used	L103090090040-IL	Not used	Not used

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

G AMP5 ASSY

7028074541040 and 7028074541060 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.

H FUSB ASSY

7028077781040, 7028077781010, 7028077781030 and 7028077781050 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.

I NTC ASSY

7028077725050, 7028077725010, 7028077725040 and 7028077725060 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 FRONT ASSY

7028077721050, 7028077721010, 7028077721040 and 7028077721060 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077721050	7028077721010	7028077721040	7028077721060
	D3007,3009,3011,3013	K500052009011-IL	K500036000160-IL	K500052009011-IL	K500052009011-IL

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

K HPMIC ASSY

7028077724050, 7028077724010, 7028077724040 and 7028077724060 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 INSEL ASSY

7028077722050, 7028077722010, 7028077722040 and 7028077722060 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.

M SMPS ASSY

70280733610GA, 70280733610HA and 70280733610IA are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	70280733610GA	70280733610HA	70280733610IA
⚠	CN9100 CN.Wafer 7.92mm	L108396030010-IL	Not used	L108396030010-IL
⚠	FU101 Fuse Glass tube 20mm	N751508001160-IL	N751506301160-IL	N751508001160-IL

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

N REG ASSY

7028077712030, 7028077712010, 7028077712020 and 7028077712040 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077712030	7028077712010	7028077712020	7028077712040
⚠	IC5	Not used	J126781200040-IL	Not used	Not used
	R85	Not used	C060033166050-IL	Not used	Not used

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

Mark No. Description Part No.

A MAIN ASSY

SEMICONDUCTORS

IC 400	BD3473KS2
IC 1200	J127410500010-IL
IC 2502	J040406600010-IL
IC 2702,2704	J121458000050-IL
Q 14,15	J522305200050-IL
Q 16	J520015301210-IL
Q 17	J5000916Y0050-IL
⚠ D 7	K047100600220-IL

MISCELLANEOUS

JA 101	TER_BOARD SCREW 6P	G613602A0200Y-IL
JA 102	TER_BOARD SCREW 4P	G612405E0200Y-IL
JA 401	TER_RCA 4PIN	G602421E0002Y-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
CN9113,9310,9313	CN.WAFER	L109012510740S

Mark No. Description Part No.

CN9114	CN_WAFER	L109012511540S
CN9311,9312	CN_WAFER	L109012511340S

601	TUNER_FM/AM	E903004100781S
-----	-------------	----------------

RESISTORS

R 5,7,9,11	C060010065050-IL
R 13,25	C060010065050-IL
R 15,16	C060033166050-IL
R 64	C060022063050-IL
R 66	C0604R7065050-IL
R 588,589	C060010165060-IL

CAPACITORS

C 55,58	D040682088010-IL
---------	------------------

B DMAIN ASSY

SEMICONDUCTORS

IC 1	8952VS8300040
IC 6,8,615	TC7SZ125FUS1
IC 7	74LCX541FT

Mark	No.	Description	Part No.
	IC 101		R5S726B0D216FP
	IC 102,9001		J001986466020S
	IC 103		8952VS8300011
	IC 105,1521,1812,9006		TC7SH08FUS1
	IC 107,608,612,614		TC74VHCT08AFKS1
	IC 161-603		J040140940040S
	IC 610,1509,1601		74VHC126FT
	IC 611		74VHCT126AFT
	IC 613,1804,9003		TC74VHC08FK
⚠	IC 809		J046206501010S
	IC 1510,1805		TC74VHC157FK
	IC 1511		ICS511MLF
⚠	IC 1605		J046205101010S
	IC 1801		J080458800010-IL
	IC 1808		TC7WHU04FK
	IC 9004		8952VS8300020
	IC 9101		74VHC541FT
	IC 9202		8952VS8300031
	IC 9208		TC7SH08FUS1
⚠	IC 9450,9504		J126736112010S
⚠	IC 9511-9513		J126736100010S
⚠	IC 9555,9558		NJM2888F05
⚠	IC 9557		NJM2888F25
⚠	IC 9559		NJM2888F33
MISCELLANEOUS			
	JA 1601,9601-9606	HDMI JACK	AKP7286
	JA 9202	JACK_MODULAR	G4060RJ450450S
CAPACITORS			
	C 128,1560		D040102081070-IL
C	OPTCO ASSY		
SEMICONDUCTORS			
	IC 2009		J040740400290-IL
MISCELLANEOUS			
	JA 1305	MODULE	E100802000250-IL
	JA 1306	TER_RCA 1PIN	G600107A0000Y-IL
	CN 2009	CN.WAFER	L101911500610S
D	SP-B ASSY (VSX-45 only)		
MISCELLANEOUS			
	JA 103	TER_BOARD PUSH 4P	G594408SA030Y-IL
E	CONCT ASSY		
MISCELLANEOUS			
	CN 105	CN_WAFER	L109012511540S
	CN 9115	CN.WAFER	L109012510740S
F	CPU ASSY		
SEMICONDUCTORS			
	IC 300		8952VS8300050
⚠	IC 303		NJM2888F05
⚠	IC 305		J126288833010S
	IC 306		J126077004210-IL
	IC 307		J126077004720S

Mark	No.	Description	Part No.
MISCELLANEOUS			
	CN302	CN_WAFER	L109012511540S
	CN303	CN_WAFER	L109012510940S
CAPACITORS			
	C	352,353	D040102081070-IL
G AMP5 ASSY			
SEMICONDUCTORS			
	Q	1,2	J5000992FA050-IL
	Q	4	J5023206Y0050-IL
	Q	5	J502396400010-IL
⚠	Q	6	J5032390Y0000-IL
⚠	Q	7	J5011560Y0000-IL
	Q	452	J5001024Y0050-IL
	D	9001	K06005R134522-IL
	D	9002,9003	K06004R344522-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
	VR1	VR_SEMI CARBON MOLD	C541102315020S
H FUSB ASSY			
SEMICONDUCTORS			
⚠	IC	808	J046206501010S
MISCELLANEOUS			
	JA 600	CN_PLUG CONTACT	G480040030020S
I FUSB ASSY			
RESISTORS			
	R	95,96	F340160801030S
J FRONT ASSY			
SEMICONDUCTORS			
	IC	3001	PD8198A
	Q	19,20	J522305200050-IL
	Q	3011	J5001266G0050-IL
	D	9,18	K005041480230-IL
	D	3001	K06006R844522-IL
	D	3007,3009,3011,3013	K500052009011-IL
MISCELLANEOUS			
	V	3001 DISPLAY_FLT	K530166400012-IL
	S	3001-3015 SWITCH	G180501000010-IL
	S	3024 SW_ENCODER	G121122400231S
	1	HOLDER	4320211306000-IL
	U	3001 MODULE_REMOCON	E940349003810-IL
RESISTORS			
	R	3021,3022	C0601R8065050S

Mark	No.	Description	Part No.
A	K	HPMIC ASSY	
		<u>SEMICONDUCTORS</u>	
		IC 3652	J121458001010-IL

MISCELLANEOUS

JA 701	JACK_D6.5	G402PJ612AG1Y-IL
JA 3655	JACK_D3.5	G40132340000Y-IL

L INSEL ASSY

MISCELLANEOUS

S 3401	SWITCH	G180501000010-IL
S 3501	SW_ENCODER	G121121200230-IL

M SMPS ASSY

SEMICONDUCTORS

	IC 100	K614123000010-IL
	IC 102	J122201530080-IL
	IC 116	J126243118010-IL
	Q 102	J5023198Y0000-IL
	D 41	K047200600010-IL
	D 103	K120300600010-IL
	D 105	K050400700010-IL
	D 108	K050010010010-IL
	D 9114	K06006R244522-IL

MISCELLANEOUS

	L 100	COIL_LINE FILTER	D320201405510-IL
	RY 101	RELAY	G680060103030-IL
	T 101	TRANS_SWITCHING	E060252505510-IL
	CN9100	CN.WAFER 7.92MM	L108396030010-IL
	CN9102	CN.WAFER 7.92MM	L108011430210-IL

100,102	BRACKET	4010215796000-IL
101	BRACKET	4010210196000-IL

	FU 100	FUSE GLASS TUBE 20MM (3.15 A)	N751503151160-IL
	FU 101	FUSE GLASS TUBE 20MM (T8AL/250V)	N751508001160-IL
	Z 9115	D_ZENER CHIP	K06620R04P410-IL

RESISTORS

	R 100	C060068564520-IL
	R 106	C060012466050S
	R 116	C060R68065050-IL
	R 120	C0604R7065050-IL

CAPACITORS

	C 100	D02110407H010-IL
	C 102	D04010108K000-IL
	C 103	D00810207Q010-IL
	C 104,105	D00847127H010-IL
	C 106,107	D041562081001-IL

	C 112	D041330088050S
	C 115,132	D00815248H010-IL
	C 117,131,133	D008103589010-IL
	C 129	D041221082230-IL

N REG ASSY

SEMICONDUCTORS

	IC 1	J126781200040-IL
	IC 2	J126791200060-IL
	IC 3	J126780500110-IL
	D 10-13	K000400700220-IL

Mark	No.	Description	Part No.
	D 19		K005041480230-IL
	D 41		K047604000030S
	D 9002		K06604R74P430S

MISCELLANEOUS

	FU 301,302	FUSE_MICRO (T4AL 250V)	G658402250050-IL
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RESISTORS

R 41,42	C060R22065050-IL
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CAPACITORS

C 76	D040103084000-IL
C 84	D040472084020-IL
C 85	D040102084060-IL