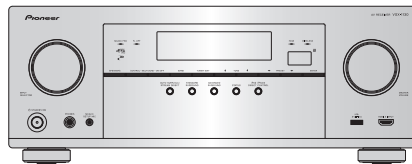


Pioneer

Service Manual



VSX-1130-K

ORDER NO.
RRV4597

AV Receiver

VSX-1130-K

VSX-90

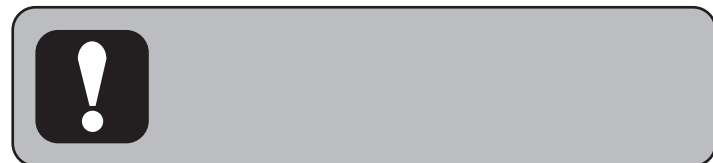
VSA-1130

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

Model	Type	Power Requirement	Remarks
VSX-1130-K	CUXESM	AC 120 V	
VSX-90	CUXE	AC 120 V	
VSA-1130	JXEV	AC 100 V	

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

Model	Order No.	Remarks
VSX-1130-K, VSX-90	RRV4596	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
©PIONEER CORPORATION 2015

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

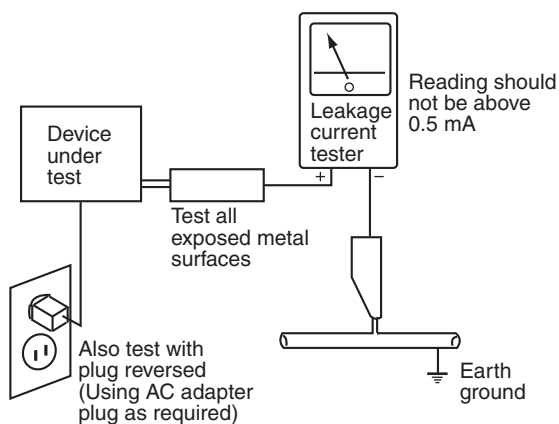
(FOR USA MODEL ONLY)

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.

CONTENTS

SAFETY INFORMATION.....	2
10. SCHEMATIC DIAGRAM.....	4
10.1 OVERALL WIRING DIAGRAM	4
10.2 MAIN ASSY	6
10.3 DMAIN ASSY (1/11)	8
10.4 DMAIN ASSY (2/11)	10
10.5 DMAIN ASSY (3/11)	12
10.6 DMAIN ASSY (4/11)	14
10.7 DMAIN ASSY (5/11)	16
10.8 DMAIN ASSY (6/11)	18
10.9 DMAIN ASSY (7/11)	20
10.10 DMAIN ASSY (8/11)	22
10.11 DMAIN ASSY (9/11)	24
10.12 DMAIN ASSY (10/11)	26
10.13 DMAIN ASSY (11/11)	28
10.14 OPTCO and BRIDGE ASSYS	32
10.15 AUDIO ASSY	34
10.16 CPU ASSY.....	36
10.17 AMP7 ASSY (1/2)	38
10.18 AMP7 ASSY (2/2)	40
10.19 FHDMI ASSY	42
10.20 TEMP, FRONT, HPMIC and INSEL ASSYS.....	44
10.21 SMPS ASSY	46
11. PCB CONNECTION DIAGRAM	48
11.1 MAIN ASSY	48
11.2 DMAIN ASSY.....	52
11.3 OPTCO ASSY	56
11.4 BRIDGE ASSY	57
11.5 AUDIO ASSY	58
11.6 CPU ASSY.....	60
11.7 AMP7 ASSY	64
11.8 FHDMI, TEMP, FRONT, HPMIC and INSEL ASSYS	66
11.9 SMPS ASSY	70
12. PCB PARTS LIST	71

10.1 OVERALL WIRING DIAGRAM

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- 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.
-  : The power supply is shown with the marked box.

- 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。

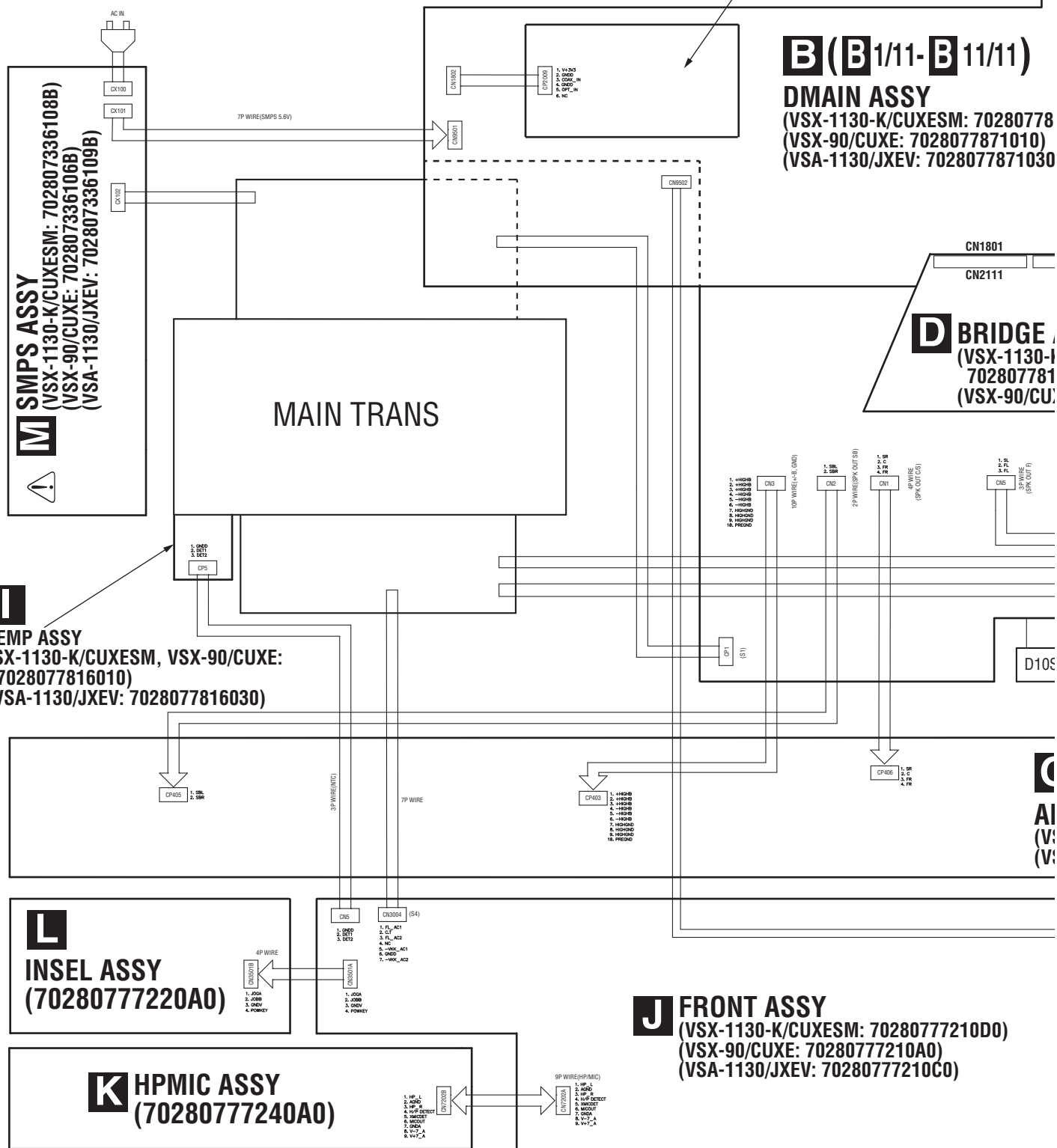
C

OPTCO ASSY
(VSX-1130-K/CUXESM, VSX-90/CUXE:
70280777230A0)
(VSA-1130/JXEV: 70280777230B0)

B (B 1/11- B 11/11)

DMAIN ASSY
(VSX-1130-K/CUXESM: 70280778
(VSX-90/CUXE: 7028077871010)
(VSA-1130/JXEV: 7028077871030

D **BRIDGE**
(VSX-1130-I)
702807781
(VSX-90/CU)



VSX-1130-K

VSX-90/CUXE:
777230B0)

B 11/11)

(ESM: 7028077871040)
7028077871010)
7028077871030)

D BRIDGE ASSY
(VSX-1130-K/CUXESM, VSA-1130/JXEV:
7028077812020)
(VSX-90/CUXE: 7028077812010)

A MAIN ASSY
(VSX-1130-K/CUXESM: 7028077811040)
(VSX-90/CUXE: 7028077811010)
(VSA-1130/JXEV: 7028077811030)

G (G 1/12, G 2/2)

AMP7 ASSY

(VSX-1130-K/CUXESM, VSX-90/CUXE: 7028077751010)
(VSA-1130/JXEV: 7028077751030)

777210D0)
10)
0C0)

H

FHDMI ASSY

(VSX-1130-K/CUXESM, VSX-90/CUXE:
7028077881010)
(VSA-1130/JXEV: 7028077881030)

TUNER

F CPU ASSY

(VSX-1130-K/CUXESM: 70280777310D0)
(VSX-90/CUXE: 70280777310A0)
(VSA-1130/JXEV: 70280777310C0)

10.2 MAIN ASSY

A

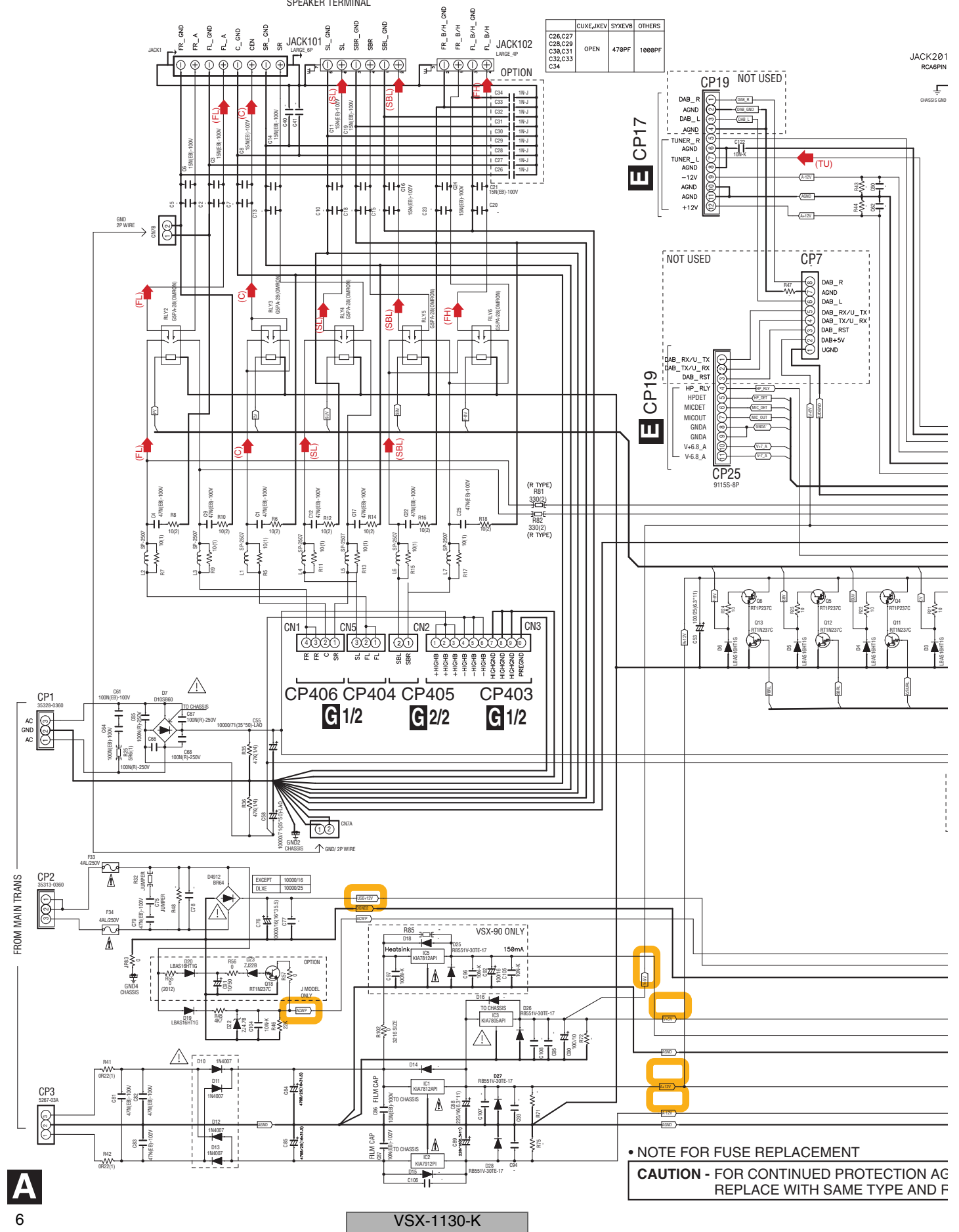
B

C

D

E

F



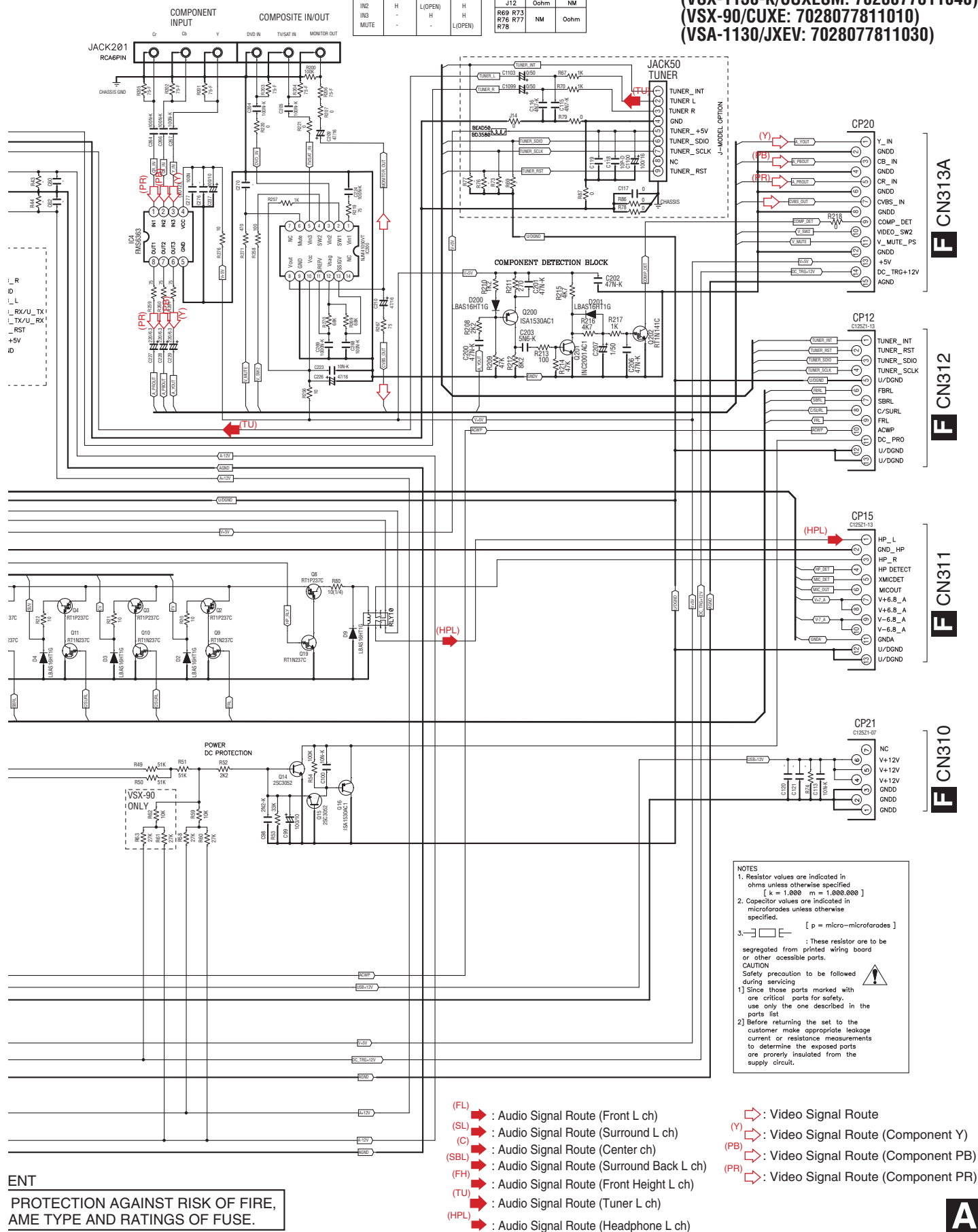
NIM41050VT LOGIC TABLE

	SW1	SW2	MUTE
IN2	H	L(OPEN)	H
IN3	-	H	H
MUTE	-	-	L(OPEN)

MODEL DISCRIMINATION

	OTHERS	J MODEL
J12	Oohm	NM
69 R73 76 R77 78	NM	Oohm

A MAIN ASSY
(VSX-1130-K/CUXESM: 7028077811040)
(VSX-90/CUXE: 7028077811010)
(VSA-1130/JXEV: 7028077811030)



ENT

PROTECTION AGAINST RISK OF FIRE,
AME TYPE AND RATINGS OF FUSE.

VSX-1130-K

4



F



4

F



VSX-1130-K

A



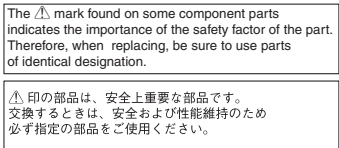
C

D

F

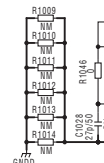
F

4





B 4/11



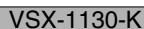
F



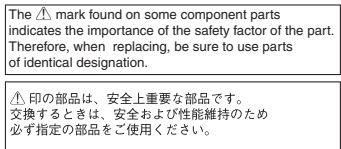
15

4

F



F

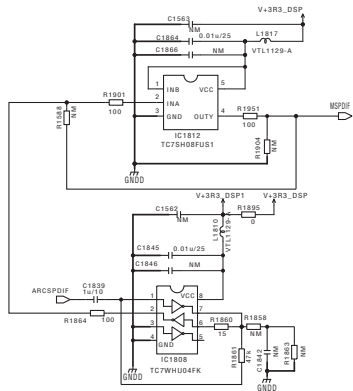


10.8 DMAIN ASSY (6/11)

A

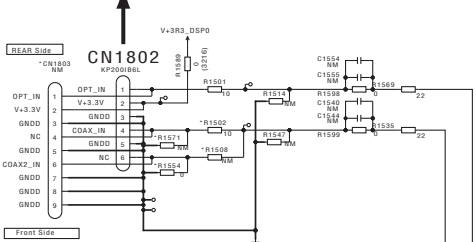
- ➡ : Audio Signal Route (L ch)
- (D) : Audio Data Route
- (FL_D) : Audio Data Route (Front L ch)
- (SL_D) : Audio Data Route (Surround L ch)
- (C_D) : Audio Data Route (Center ch)
- (SBL_D) : Audio Data Route (Surround Back L ch)

B

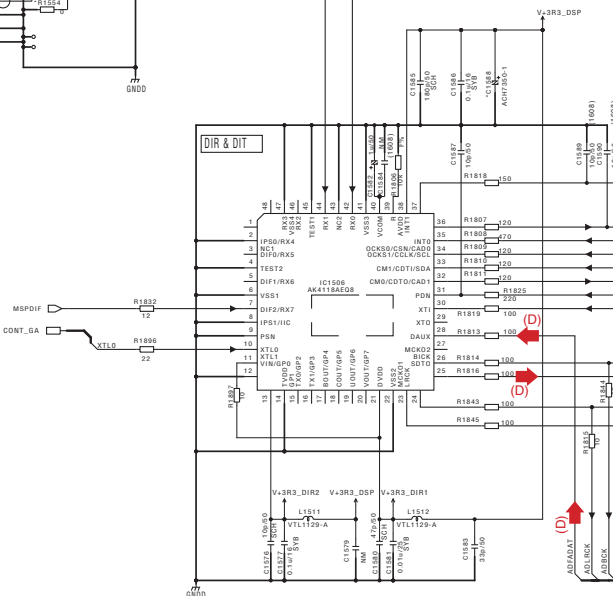


C

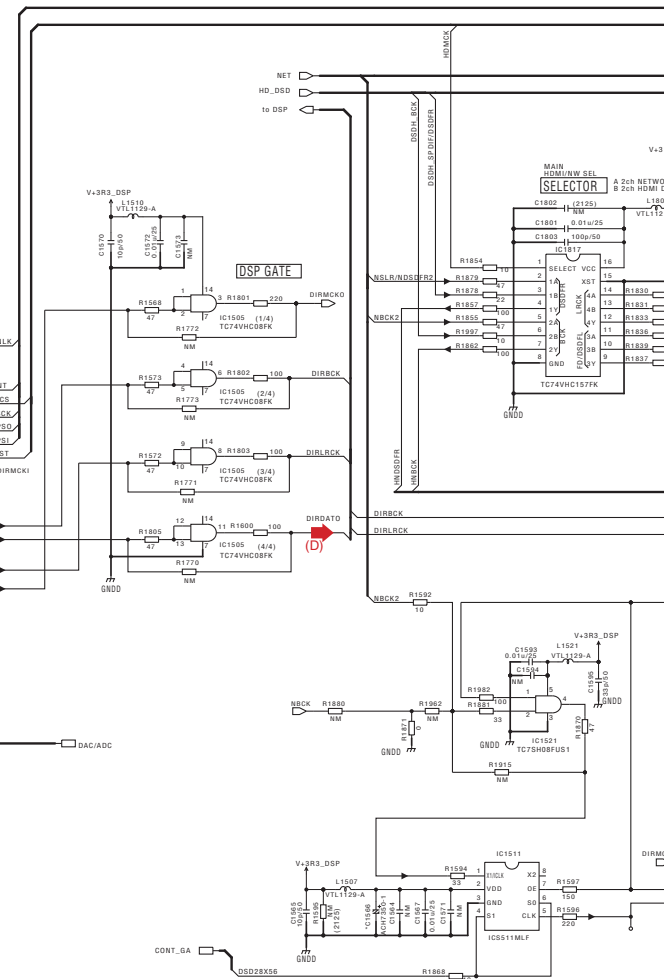
C CP2009



D



E



F

B 6/11

A



C

D

E

F

10.9 DMAIN ASSY (7/11)

A

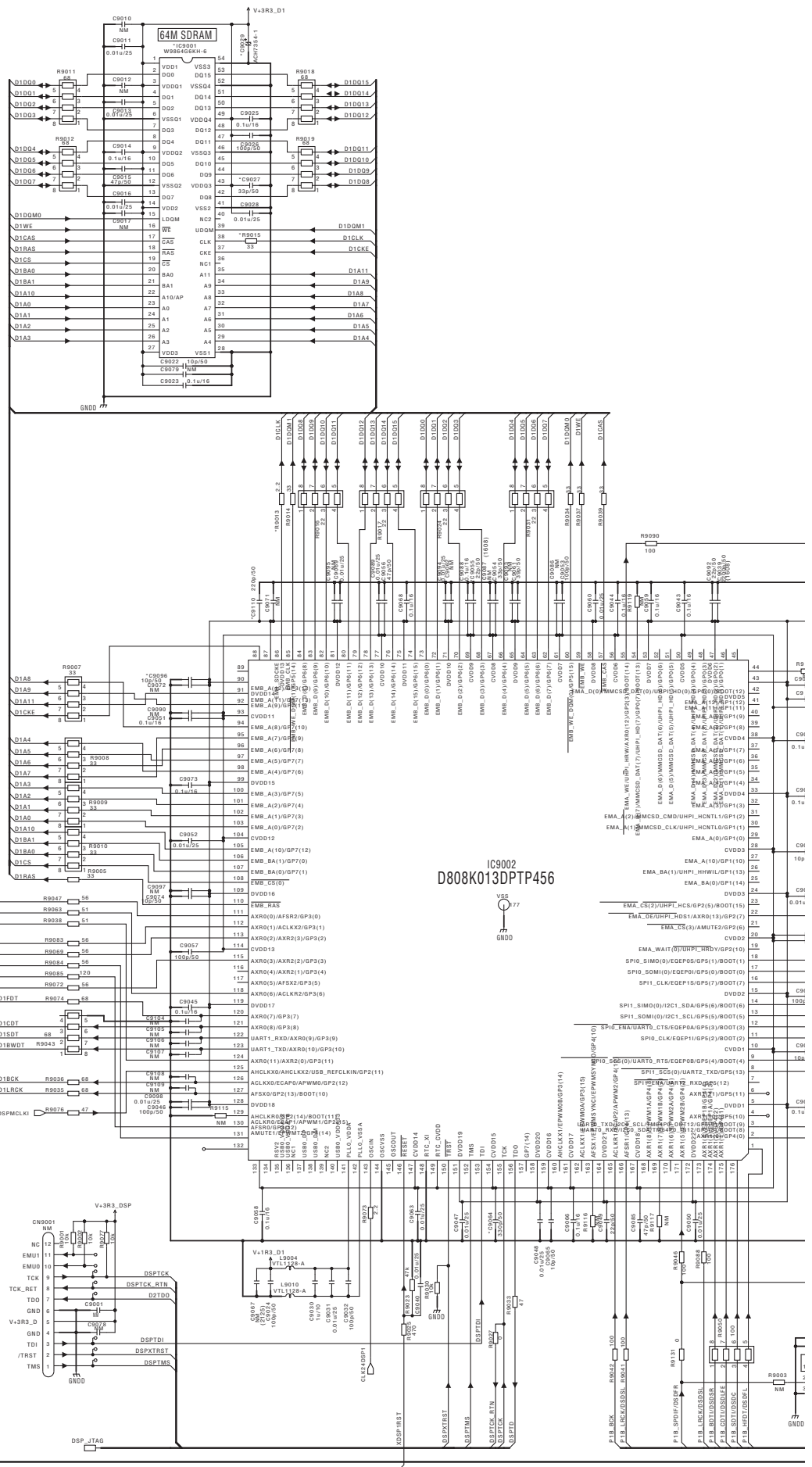
B

C

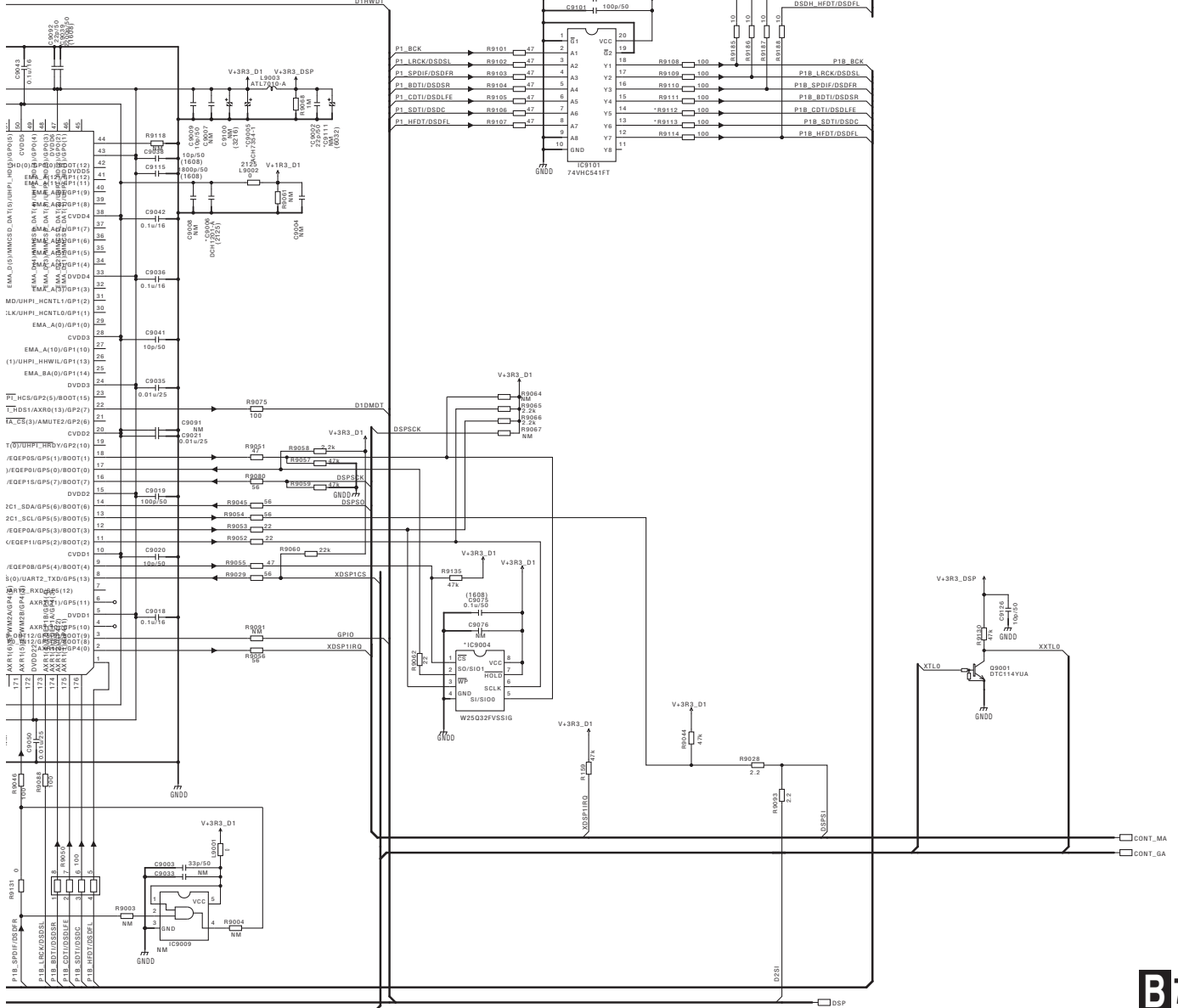
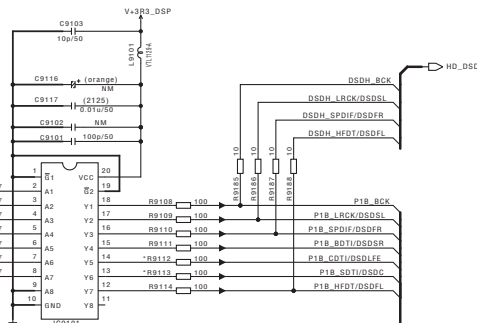
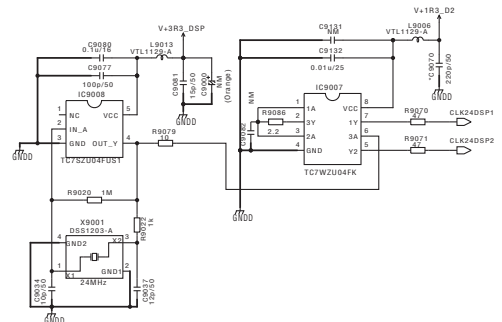
D

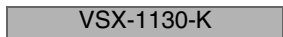
E

F



B7/11 DMAIN ASSY (VSX-1130-K/CUXESM: 7028077871040) (VSX-90/CUXE: 7028077871010) (VSA-1130/JXEV: 7028077871030)





B8/11 DMAIN ASSY (VSX-1130-K/CUXESM: 7028077871040) (VSX-90/CUXE: 7028077871010) (VSA-1130/JXEV: 7028077871030)

A

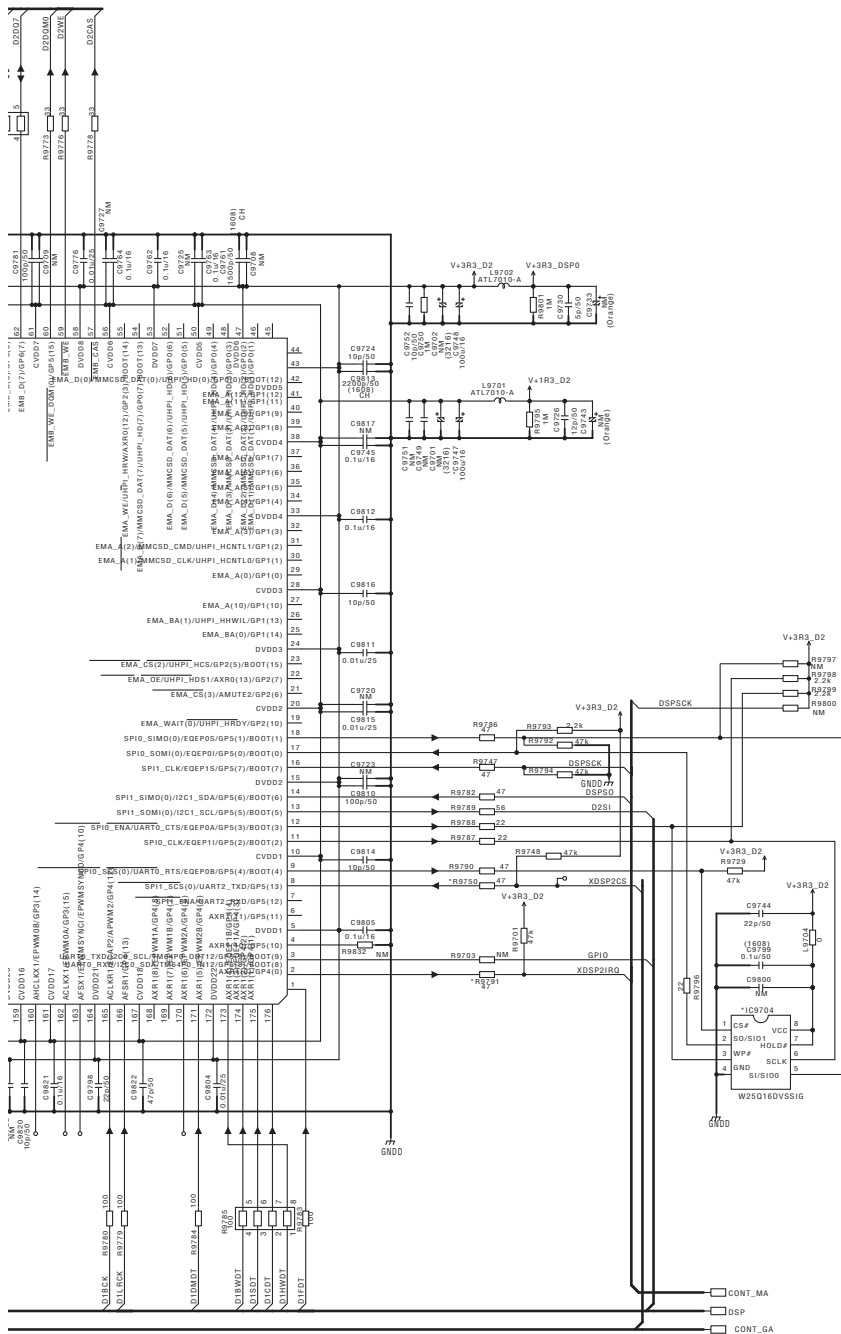
B

C

D

E

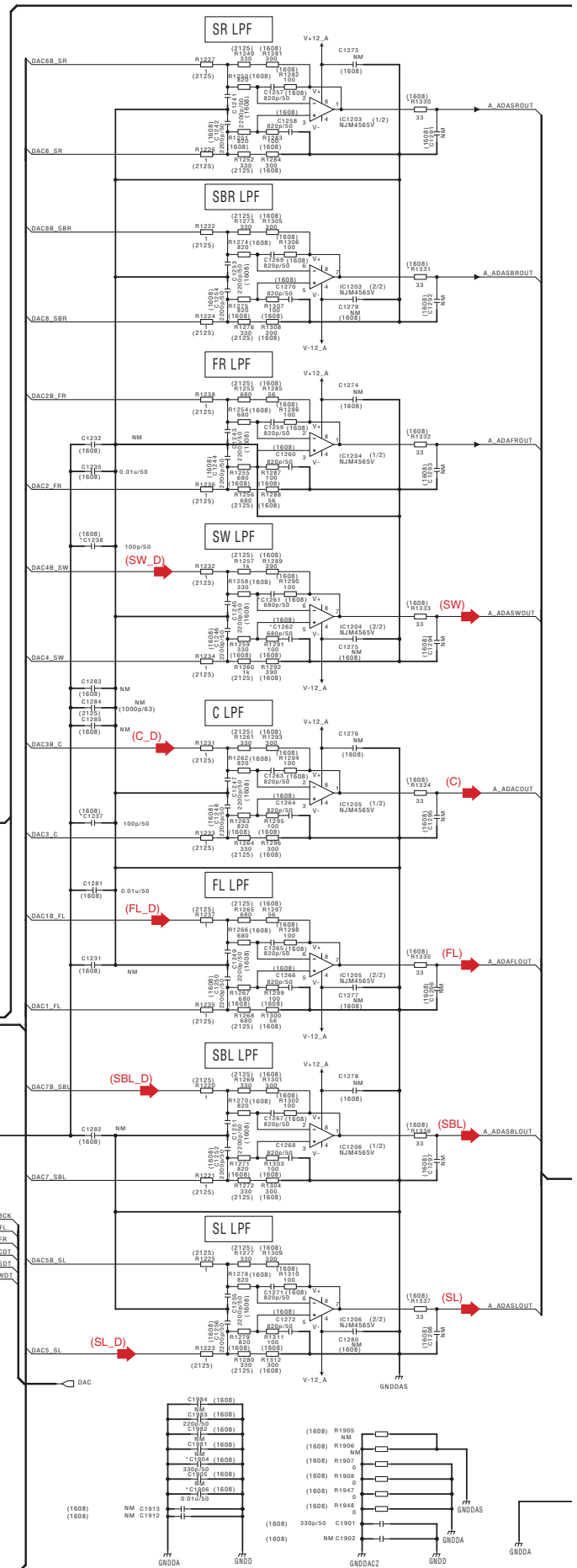
F



10.11 DMAIN ASSY (9/11)

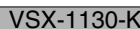
- A
- (FL) : Audio Signal Route (L ch)
 - (FL_D) : Audio Signal Route (Front L ch)
 - (SL) : Audio Signal Route (Surround L ch)
 - (C) : Audio Signal Route (Center ch)
 - (SBL) : Audio Signal Route (Surround Back L ch)
 - (SW) : Audio Signal Route (Subwoofer ch)
 - (ZOL) : Audio Signal Route (Zone L ch)
 - (D) : Audio Data Route
 - (FL_D) : Audio Data Route (Front L ch)
 - (SL_D) : Audio Data Route (Surround L ch)
 - (C_D) : Audio Data Route (Center ch)
 - (SBL_D) : Audio Data Route (Surround Back L ch)
 - (SW_D) : Audio Data Route (Subwoofer ch)
 - (ZOL_D) : Audio Data Route (Zone L ch)
- B
- C
- D
- E
- F

NOTES
1. RESISTOR VALUE IN OHMS UNLESS OTHERWISE NOTED.
2. CAPACITOR VALUE IN PICO FARADS UNLESS OTHERWISE NOTED.
3. CAPACITOR VALUE IN MICRO FARADS UNLESS OTHERWISE NOTED.
4. CAPACITOR VALUE IN NANO FARADS UNLESS OTHERWISE NOTED.
5. CAPACITOR VALUE IN PICO FARADS UNLESS OTHERWISE NOTED.
6. CAPACITOR VALUE IN MICRO FARADS UNLESS OTHERWISE NOTED.
7. CAPACITOR VALUE IN NANO FARADS UNLESS OTHERWISE NOTED.
8. CAPACITOR VALUE IN PICO FARADS UNLESS OTHERWISE NOTED.
9. CAPACITOR VALUE IN MICRO FARADS UNLESS OTHERWISE NOTED.
10. CAPACITOR VALUE IN NANO FARADS UNLESS OTHERWISE NOTED.

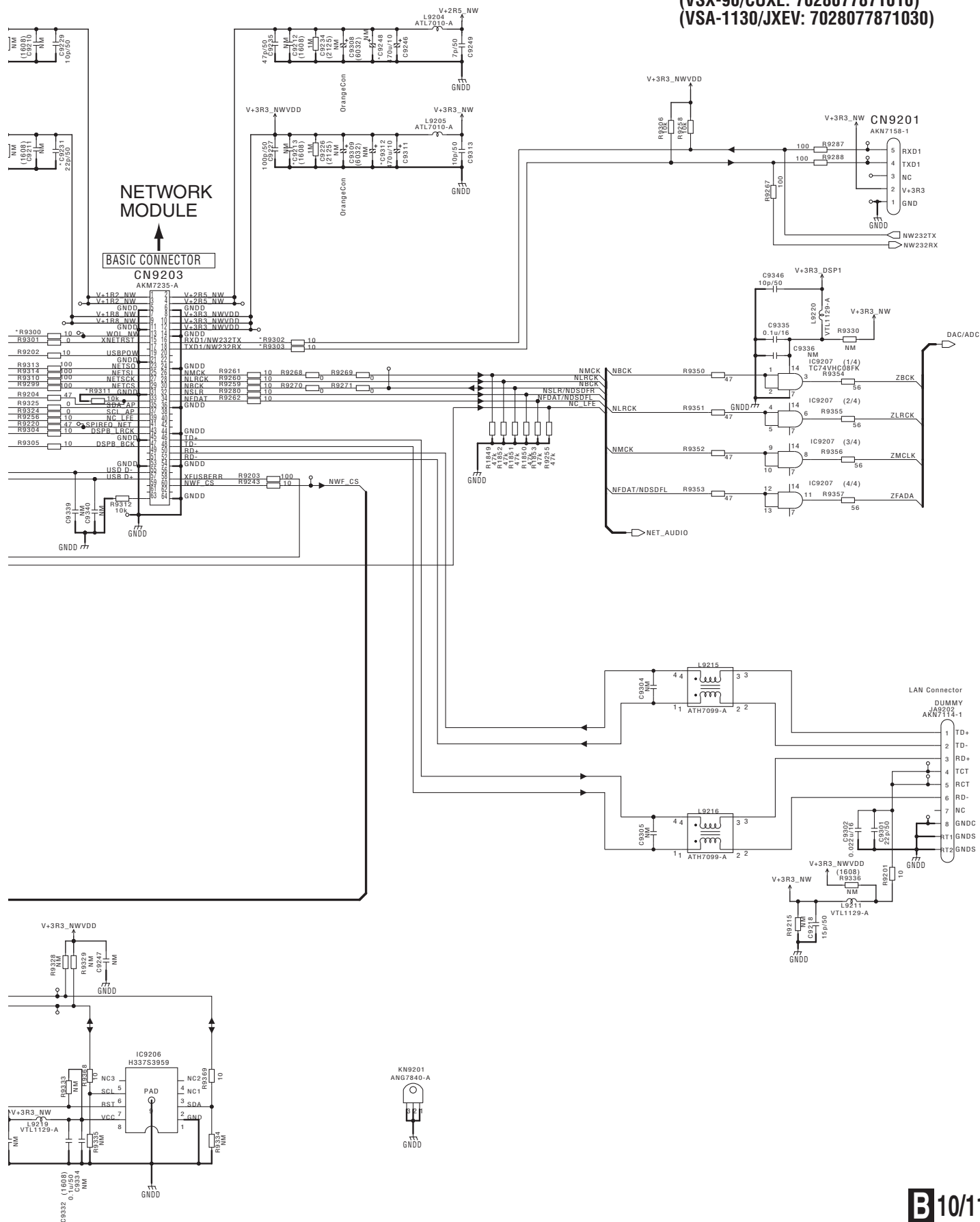


4

F



B10/11 DMAIN ASSY (VSX-1130-K/CUXESM: 7028077871040) (VSX-90/CUXE: 7028077871010) (VSA-1130/JXEV: 7028077871030)



4

F



VSX-1130-K



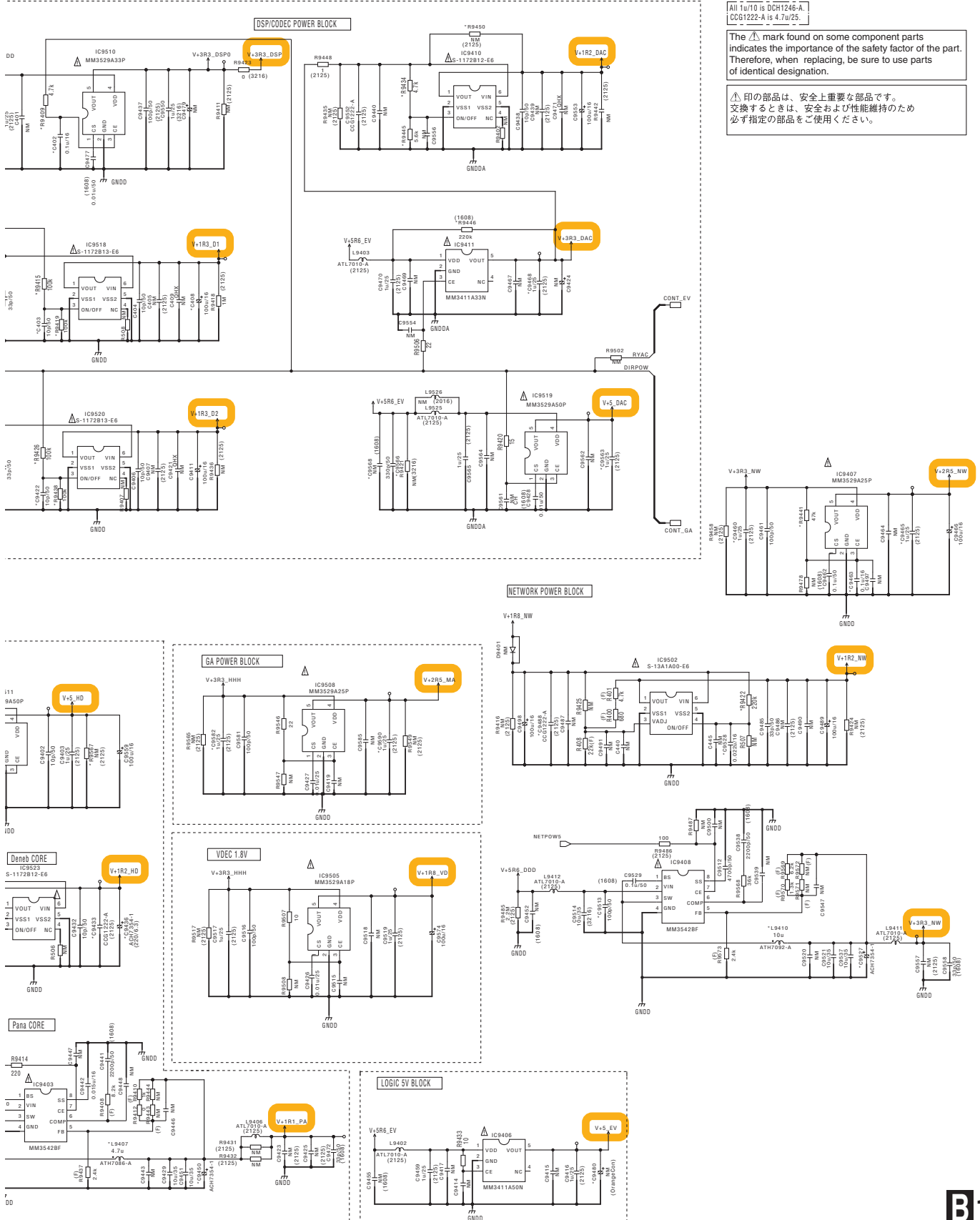
B11/11 DMAIN ASSY

(VSX-1130-K/CUXESM: 7028077871040)
 (VSX-90/CUXE: 7028077871010)
 (VSA-1130/JXEV: 7028077871030)

All 1u/10 is DCH1246-A.
 CCG1222-A is 4.7u/25.

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.

Δ 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-1130-K

B11/11

Contrast Table for DMAIN ASSY

AWX2006 (REG-H_CU_ELITE): VSX-90/CUXE
AWX2187 (REG-H_CU): VSX-1130-K/CUXESM
AWX2188 (REG-H_SY): VSX-1130-K/SYXEV8, VSX-930-K/SYXEV8, VSX-930-S/SYXEV8
AWX2189 (REG-H_JP): VSA-1130/JXE
AWX2190 (REG-H_DL): VSX-930-K/FXE, VSX-930-K/DLXE, VSX-930-K/AXQ5

B1/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_JP)	AWX2190 (REG-H_DL)
C101	NM	NM	100u/16	100u/16	NM
C105	NM	NM	10p/50	10p/50	NM
C109	NM	NM	8p/50	8p/50	NM
C129	470p/50	470p/50	27p/50	27p/50	470p/50
C132	330p/50	330p/50	12p/50	12p/50	330p/50
C148	470p/50	470p/50	8p/50	8p/50	470p/50
C153	100p/50	100p/50	0.01u/25	0.01u/25	100p/50
C201	470p/50	470p/50	220p/50	220p/50	470p/50
C206	470p/50	470p/50	10p/50	10p/50	470p/50
C213	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C217	NM	NM	0.01u/25	0.01u/25	NM
C220	0.1u/16	0.1u/16	NM	NM	0.1u/16
R128	27k	NM	NM	NM	NM
R140	NM	0	0	0	0
R213	NM	NM	47k	47k	NM

B2/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_JP)	AWX2190 (REG-H_DL)
C613	330p/50	330p/50	150p/50	150p/50	330p/50
C614	NM	NM	CCH1814-A	CCH1814-A	NM
C627	470p/50	470p/50	100p/50	100p/50	470p/50
C636	100p/50	100p/50	0.01u/25	0.01u/25	100p/50
C680	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C691	100p/50	100p/50	NM	NM	100p/50
C703	NM	NM	100u/16	100u/16	NM
C706	100p/50	100p/50	NM	NM	100p/50
C707	100p/50	100p/50	NM	NM	100p/50
C717	100p/50	100p/50	47p/50	47p/50	100p/50
C718	100p/50	100p/50	47p/50	47p/50	100p/50
C739	47p/50	47p/50	8p/50	8p/50	47p/50
C741	47p/50	47p/50	8p/50	8p/50	47p/50
C733	NM	0	0	0	0
C735	100p/50	0	0	0	0
C743	NM	NM	NM	0	NM
R640	100	100	10	0	100
R648	100k	0	0	0	0
R653	100	NM	NM	NM	NM
R683	100	100	10	NM	100
R690	100	100	10	NM	100
R697	0	0	100	100	0
R706	47k	0	0	0	0
R711	0	NM	NM	NM	NM
R722	0	0	0	NM	0
R726	10	0	0	0	0
R731	10	10	100	100	10
R739	NM	100k	100k	100k	100k
R740	10	10	100	100	10
R743	22	0	0	0	0
R749	10	10	10	12	10
R811	100	100	10	NM	100
R845	NM	47k	47k	47k	47k
R847	100	NM	NM	NM	NM
R886	10	10	47	47	10

B3/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_JP)	AWX2190 (REG-H_DL)
C9602	330p/50	330p/50	100p/50	100p/50	330p/50
C9604	330p/50	330p/50	NM	NM	330p/50

B4/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_JP)	AWX2190 (REG-H_DL)
C904	NM	NM	22p/50	22p/50	NM
C905	22p/50	22p/50	22p/50	7p/50	22p/50
C906	0.1u/16	0.1u/16	NM	NM	0.1u/16
C907	NM	NM	0.01u/25	0.01u/25	NM
C1010	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C1035	330p/50	330p/50	470p/50	470p/50	330p/50
R913	68	68	100	100	68
R914	68	68	100	100	68
R918	68	68	100	100	68
R919	68	68	100	100	68
R922	22	22	68	68	22
R923	68	68	100	100	68

B5/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_JP)	AWX2190 (REG-H_DL)
C1484	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C1605	NM	NM	CCH1814-A	CCH1814-A	NM
C1611	NM	NM	VCG1072-A	VCG1072-A	NM
C1612	1u/10	1u/10	NM	NM	1u/10
C1627	DCH1263-A	DCH1263-A	ACG7115-A	ACG7115-A	DCH1263-A
C1633	1u/25	1u/25	ACG7117-A	ACG7117-A	1u/25
C1637	33p/50	33p/50	33p/50	12p/50	33p/50
C1654	NM	NM	ACH7306-A	ACH7306-A	NM
C1656	NM	NM	1u/25	1u/25	NM
C1657	1u/10	1u/10	NM	NM	1u/10
C1666	DCH1263-A	DCH1263-A	ACG7115-A	ACG7115-A	DCH1263-A
C1670	470p/50	470p/50	220p/50	220p/50	470p/50
C1679	330p/50	330p/50	0.01u/25	0.01u/25	330p/50
C1684	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C1688	DCH1263-A	DCH1263-A	ACG7115-A	ACG7115-A	DCH1263-A
C1700	DCH1263-A	DCH1263-A	ACG7115-A	ACG7115-A	DCH1263-A
C1714	1u/25	1u/25	ACG7117-A	ACG7117-A	1u/25
C1718	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C1735	1u/10	1u/10	0.01u/25	0.01u/25	1u/10
R1638	56	56	68	68	56
R1661	1.2k	1.2k	39k	39k	1.2k
R1662	39k	39k	1.2k	1.2k	39k
R1696	10	10	12	12	10
R1703	56	56	68	68	56
R1717	47	47	56	56	47
R1718	47	47	56	56	47
R1719	47	47	56	56	47
R1743	47	47	56	56	47
R1744	47	47	56	56	47
R1746	100	100	150	150	100
R1748	100	100	150	150	100
R1750	100	100	150	150	100

B6/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_JP)	AWX2190 (REG-H_DL)
C1501	0.1u/16	0.1u/16	NM	NM	0.1u/16
C1503	100p/50	100p/50	NM	NM	100p/50
C1556	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C1543	NM	0	0	0	0
C1919	NM	0	0	0	0
R352	100	100	110	110	100
R353	100	100	110	110	100
R354	100	100	110	110	100
R372	82	82	120	120	82
R373	82	82	120	120	82
R374	82	82	120	120	82
R1516	33	33	47	47	33
R1530	10	0	0	0	0
R1534	0	0	5.6	5.6	0
R1574	15	15	22	22	15
R1577	15	15	22	22	15
R1585	15	15	22	22	15
R1923	NM	0	0	0	0
01504	DTA124EUA	NM	NM	NM	NM

B7/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_JP)	AWX2190 (REG-H_DL)
C9002	22p/50	22p/50	7p/50	7p/50	22p/50
C9006	DCH1201-A	DCH1201-A	NM	NM	DCH1201-A
C9027	33p/50	33p/50	27p/50	27p/50	33p/50
C9055	22p/50	22p/50	8p/50	8p/50	22p/50
C9064	330p/50	330p/50	100p/50	100p/50	330p/50
C9070	220p/50	220p/50	15p/50	15p/50	220p/50
C9096	10p/50	10p/50	0.01u/25	0.01u/25	10p/50
C9110	220p/50	220p/50	100p/50	100p/50	220p/50
C9111	NM	NM	NM	ACH7306-A	NM
R9013	2.2	2.2	68	68	2.2
R9015	33	33	2.2	2.2	33
R9059	47k	47k	NM	NM	47k
R9112	100	100	110	110	100
R9113	100	100	110	110	100

B 8/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_IP)	AWX2190 (REG-H_DL)
C9712	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C9716	NM	NM	0.01u/25	0.01u/25	NM
C9747	100u/16	100u/16	VCH1234-A	VCH1234-A	100u/16
C9770	33p/50	33p/50	27p/50	27p/50	33p/50
C9783	22p/50	22p/50	8p/50	8p/50	22p/50
C9790	220p/50	220p/50	0.1u/16	0.1u/16	220p/50
C9793	10p/50	10p/50	0.01u/25	0.01u/25	10p/50
C9819	330p/50	330p/50	100p/50	100p/50	330p/50
R9745	68	68	75	75	68
R9750	47	47	56	56	47
R9774	68	68	75	75	68
R9775	68	68	75	75	68
R9791	47	47	56	56	47
R9794	47k	47k	NM	NM	47k

B 9/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_IP)	AWX2190 (REG-H_DL)
C1208	22p/50	22p/50	NM	NM	22p/50
C1227	220p/50	220p/50	ACE7113-A	ACE7113-A	220p/50
C1233	330p/50	330p/50	ACE7113-A	ACE7113-A	330p/50
C1237	100p/50	100p/50	ACE7107-A	ACE7107-A	100p/50
C1238	100p/50	100p/50	ACE7107-A	ACE7107-A	100p/50
C1261	680p/50	680p/50	680p/50	560p/50	680p/50
C1262	680p/50	680p/50	680p/50	560p/50	680p/50
C1289	220p/50	220p/50	NM	NM	220p/50
C1826	470p/50	NM	NM	NM	NM
C1827	0.01u/50	NM	NM	NM	NM
C1831	0.01u/50	0.01u/50	NM	NM	0.01u/50
C1837	470p/50	NM	NM	NM	NM
C1838	470p/50	NM	NM	NM	NM
C1848	22u/6.3	NM	NM	NM	NM
C1849	0.01u/50	NM	NM	NM	NM
C1867	22u/6.3	NM	NM	NM	NM
C1870	4700p/50	NM	NM	NM	NM
C1871	4700p/50	NM	NM	NM	NM
C1904	330p/50	330p/50	NM	NM	330p/50
C1906	0.01u/50	0.01u/50	ACE7120-A	ACE7120-A	0.01u/50
R1214	0	0	1	1	0
R1330	33	33	39	39	33
R1331	33	33	39	39	33
R1332	33	33	39	39	33
R1333	33	33	39	33	33
R1334	33	33	39	39	33
R1335	33	33	39	39	33
R1336	33	33	39	39	33
R1337	33	33	39	39	33
R1527	0	NM	NM	NM	NM
R1528	0	NM	NM	NM	NM
R1529	1	NM	NM	NM	NM
R1550	100k	NM	NM	NM	NM
R1561	22	NM	NM	NM	NM
R1812	100k	NM	NM	NM	NM
R1826	100	NM	NM	NM	NM
R1827	100	NM	NM	NM	NM
R1828	100	NM	NM	NM	NM
R1829	100	NM	NM	NM	NM
R1872	10	NM	NM	NM	NM
R1882	22	NM	NM	NM	NM
R1883	22	NM	NM	NM	NM
R1884	22	NM	NM	NM	NM
R1885	22	NM	NM	NM	NM
R1889	0	NM	NM	NM	NM
R1912	0	NM	NM	NM	NM
R1913	0	NM	NM	NM	NM
R1914	0	NM	NM	NM	NM
R1916	NM	0	0	0	0
R1917	NM	0	0	0	0
R1918	NM	0	0	0	0
R1919	NM	0	0	0	0
R1929	0	NM	NM	NM	NM
R1936	NM	0	0	0	0
R1938	NM	0	0	0	0
R1939	NM	0	0	0	0
R1940	NM	0	0	0	0
R1944	NM	0	0	0	0
IC1802	AK4388ET	NM	NM	NM	NM

B 10/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_IP)	AWX2190 (REG-H_DL)
C9213	NM	NM	ACE7113-A	ACE7113-A	NM
C9231	22p/50	22p/50	22p/50	18p/50	22p/50
C9250	0.1u/50	0.1u/50	0.01u/50	0.01u/50	0.1u/50
C9314	ACH7354-1	ACH7354-1	VCH1234-A	VCH1234-A	ACH7354-1
C9228	NM	NM	1M	1M	NM
C9230	NM	NM	1M	1M	NM
R9300	10	10	22	22	10
R9302	10	10	100	100	10
R9303	10	10	100	100	10
R9308	0	0	47	47	0
R9311	10k	10k	47k	47k	10k

B 11/11

	AWX2006 (REG-H_CU_ELITE)	AWX2187 (REG-H_CU)	AWX2188 (REG-H_SY)	AWX2189 (REG-H_IP)	AWX2190 (REG-H_DL)
C402	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C403	10p/50	10p/50	NM	NM	10p/50
C408	100u/16	100u/16	VCH1234-A	VCH1234-A	100u/16
C412	10p/50	10p/50	10p/50	15p/50	10p/50
C455	10u/35	10u/35	CG61332-A	CG61332-A	10u/35
C458	10u/35	10u/35	CG61332-A	CG61332-A	10u/35
C464	0.1u/16	0.1u/16	0.022u/16	0.022u/16	0.1u/16
C465	10p/50	10p/50	4p/50	4p/50	10p/50
C476	NM	NM	ACE7100-A	ACE7100-A	NM
C496	10u/35	10u/35	CG61332-A	CG61332-A	10u/35
C591	33p/50	33p/50	NM	NM	33p/50
C9405	1u/25	1u/25	CG61325-A	CG61325-A	1u/25
C9422	10p/50	10p/50	NM	NM	10p/50
C9433	CG61222-A	CG61222-A	NM	NM	CG61222-A
C9460	1u/25	1u/25	CG61325-A	CG61325-A	1u/25
C9462	0.1u/50	0.1u/50	0.01u/50	0.01u/50	0.1u/50
C9463	0.1u/16	0.1u/16	0.01u/25	0.01u/25	0.1u/16
C9465	1u/25	1u/25	VCG1072-A	VCG1072-A	1u/25
C9468	1u/25	1u/25	VCG1072-A	VCG1072-A	1u/25
C9480	NM	NM	NM	ACH7306-A	NM
C9488	CG61222-A	CG61222-A	ACG7114-A	ACG7114-A	CG61222-A
C9513	100p/50	100p/50	7p/50	7p/50	100p/50
C9528	0.022u/16	0.022u/16	0.01u/25	0.01u/25	0.022u/16
C9543	0.01u/50	0.01u/50	NM	NM	0.01u/50
C9544	0.1u/50	0.1u/50	NM	NM	0.1u/50
C9549	10p/50	10p/50	NM	NM	10p/50
C9550	1u/25	1u/25	VCG1072-A	VCG1072-A	1u/25
C9563	1u/25	1u/25	CG61325-A	CG61325-A	1u/25
C9566	330p/50	330p/50	NM	NM	330p/50
C9568	NM	NM	330p/50	330p/50	NM
C9582	1u/25	1u/25	CG61325-A	CG61325-A	1u/25
C9590	1u/25	1u/25	CG61325-A	CG61325-A	1u/25
C9598	10p/50	10p/50	NM	NM	10p/50
R454	82k	82k	560k	560k	82k
R474	150k	150k	1M	1M	150k
R9409	4.7k	4.7k	47k	47k	4.7k
R9415	100k	100k	220k	220k	100k
R9419	100k	100k	220k	220k	100k
R9422	220k	220k	470k	470k	220k
R9426	100k	100k	220k	220k	100k
R9434	4.7k	4.7k	47k	47k	4.7k
R9438	100k	100k	220k	220k	100k
R9441	47k	47k	560k	560k	47k
R9445	5.6k	5.6k	56k	56k	5.6k
R9446	220k	220k	220k	240k	220k
R9450	NM	NM	180k	180k	NM
R9525	NM	NM	1M	1M	NM
R9567	NM	NM	NM	1M	NM
L451	ATH7096-A	ATH7096-A	ATH7105-A	ATH7105-A	ATH7105-A
L452	ATH7086-A	ATH7086-A	ATH7106-A	ATH7106-A	ATH7106-A
L453	ATH7092-A	ATH7092-A	ATH7107-A	ATH7107-A	ATH7107-A
L9407	ATH7086-A	ATH7086-A	ATH7106-A	ATH7106-A	ATH7106-A
L9410	ATH7092-A	ATH7092-A	ATH7107-A	ATH7107-A	ATH7107-A

△

△

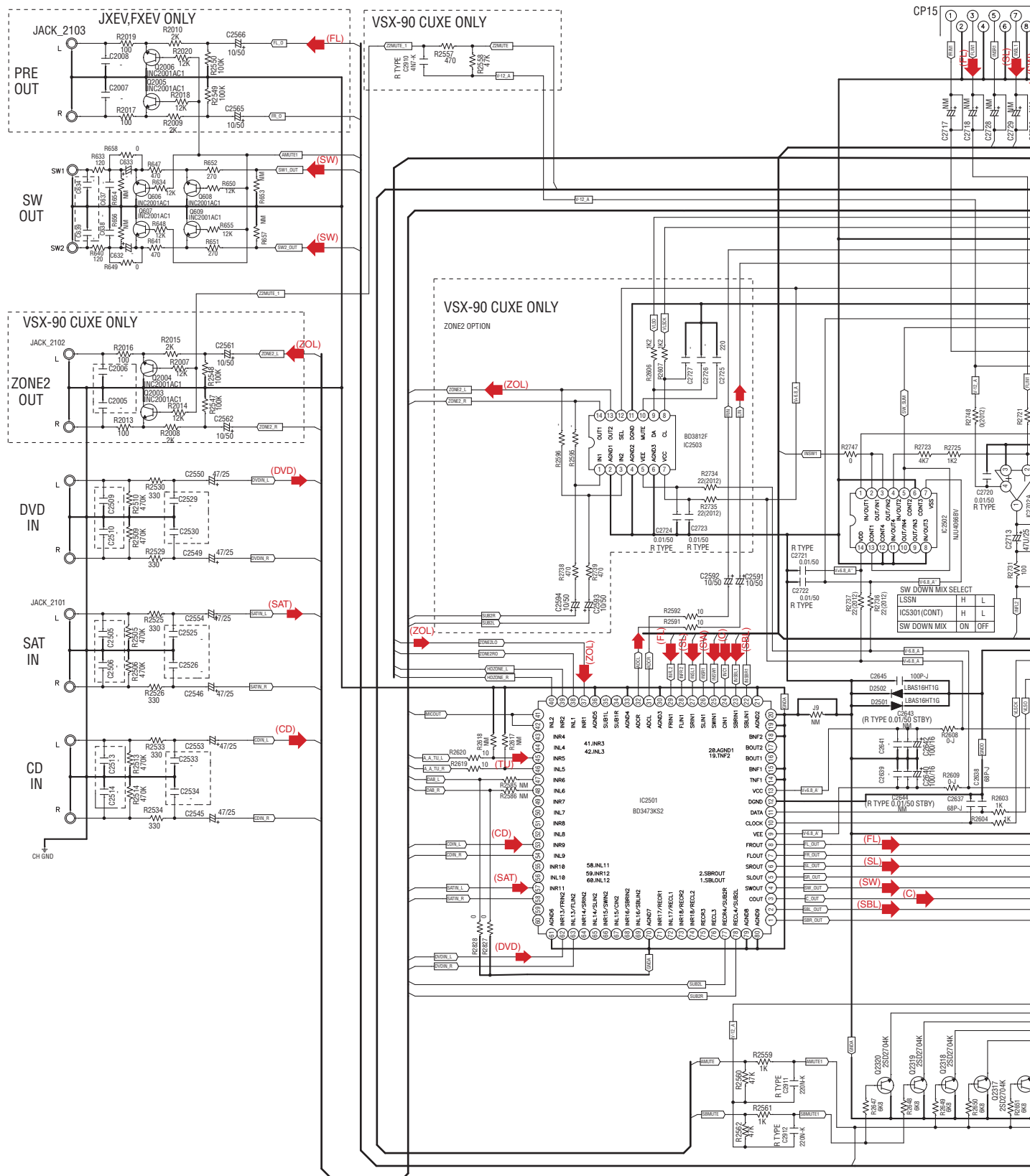


△

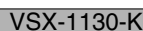
F

4

F



35



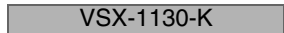
R.NO	V5X-930 (SYXEV)	V5A-1130(JXEV)	Others
C2533, C2534	100P (63MU101KZ12012)	OPEN	OPEN
C2529, C2530 C2525, C2526	100P-J	OPEN	OPEN
C634, C639 C637, C638	100P (63MU101KZ12012)	100P (63MU101KZ12012)	OPEN
R2723, R2724	1K2	1K2	4K7
R2725, R2726	4K7	4K7	1K2
R2009, R2010	2K	470	2K
R2647, R2648 R2649, R2650 R2651, R2652 R2653	6K8	8K2	6K8
R2731, R2732	100	82	100
C2913	OPEN	910(1/4W)	OPEN
C2914	OPEN	100K(1/4W)	OPEN

- (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)
- (SBL) : Audio Signal Route (Surround Back L ch)
- (ZOL) : Audio Signal Route (Zone L ch)
- (DVD) : Audio Signal Route (DVD L ch)
- (CD) : Audio Signal Route (CD L ch)
- (SAT) : Audio Signal Route (SAT L ch)
- (TU) : Audio Signal Route (Tuner L ch)

4

AB

37

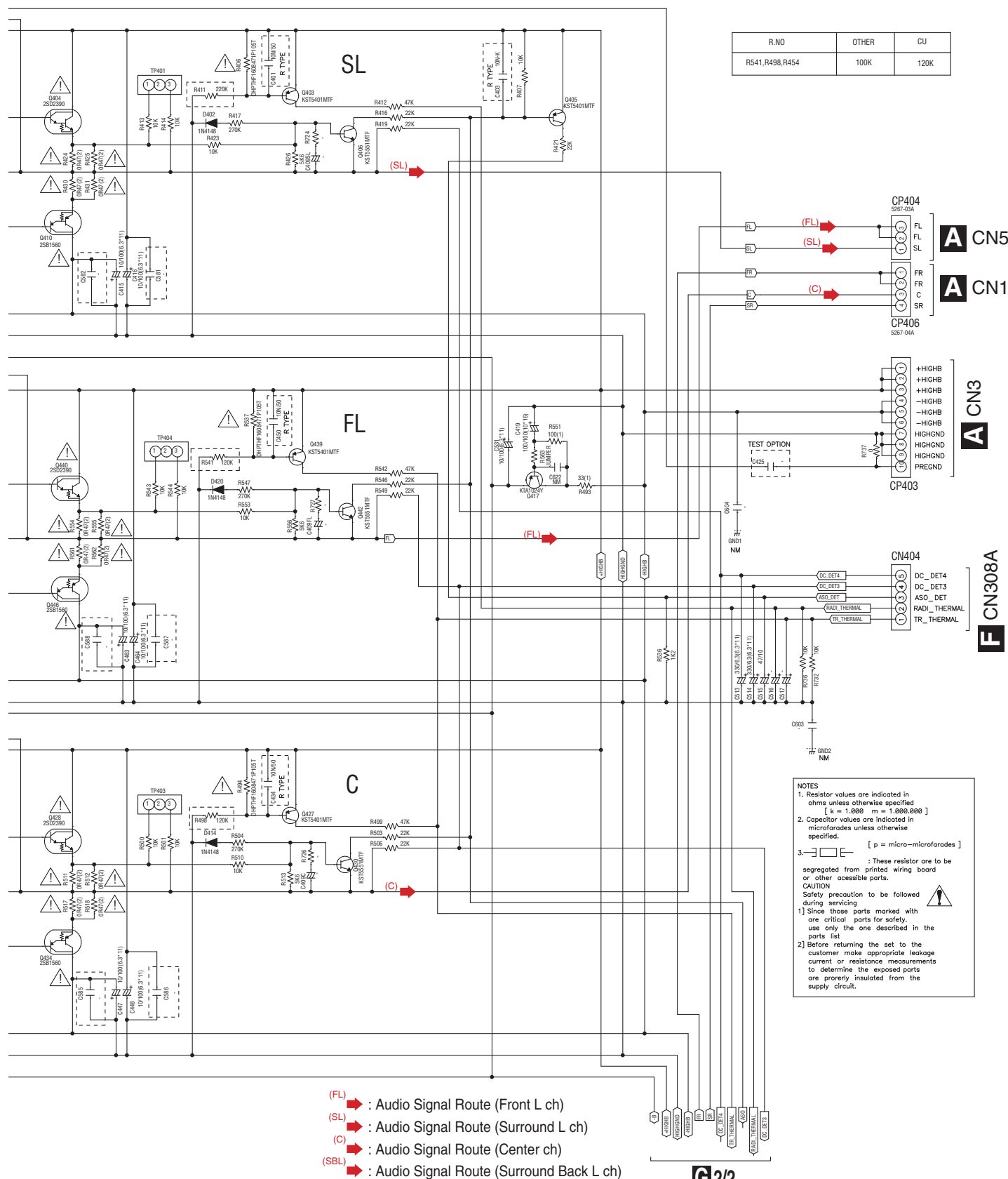


4

G 1/2 AMP7 ASSY

(VSX-1130-K/CUXESM, VSX-90/CUXE: 7028077751010)
(VSA-1130/JXEV: 7028077751030)

R.NO	OTHER	CU
R541,R498,R454	100K	120K



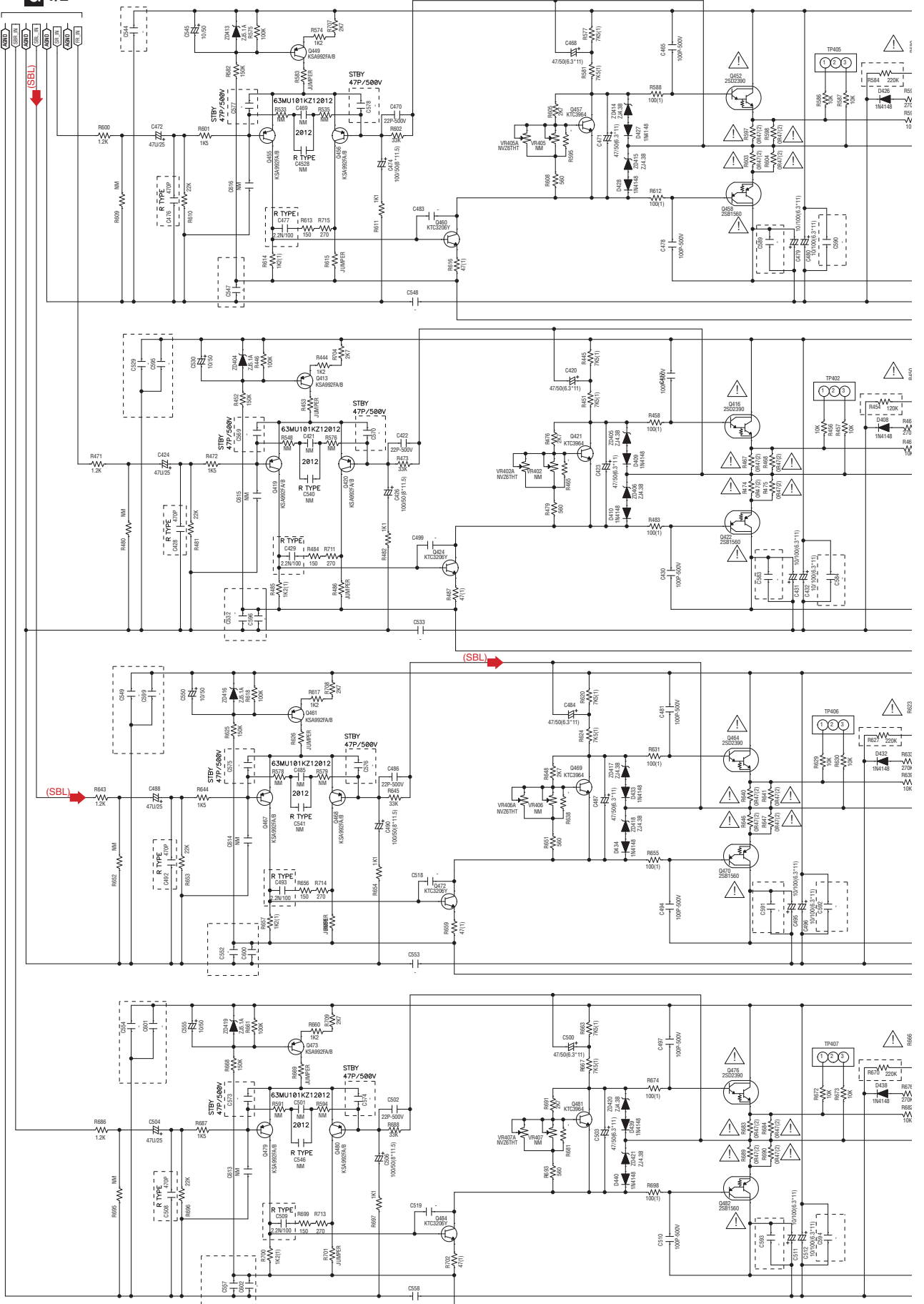
- (FL) ➡ : Audio Signal Route (Front L ch)
- (SL) ➡ : Audio Signal Route (Surround L ch)
- (C) ➡ : Audio Signal Route (Center ch)
- (SBL) ➡ : Audio Signal Route (Surround Back L ch)

G2/2**G 1/2**

39

10.18 AMP7 ASSY (2/2)

G 1/2

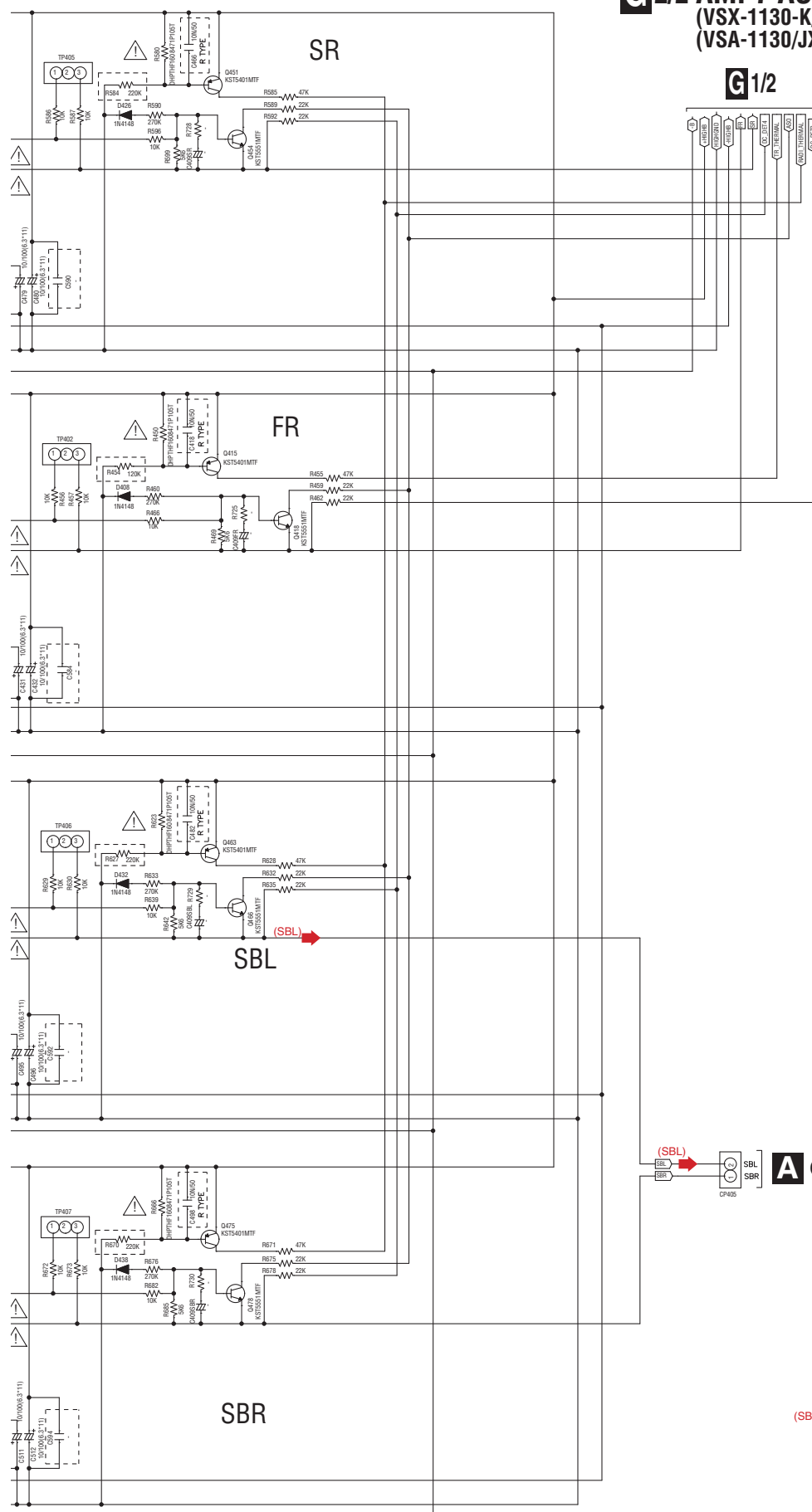


G 2/2

G2/2 AMP7 ASSY

(VSX-1130-K/CUXESM, VSX-90/CUXE: 7028077751010)
(VSA-1130/JXEV: 7028077751030)

A

G 1/2

B

C

D

F

F

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

G 2/2

41

△

A



E

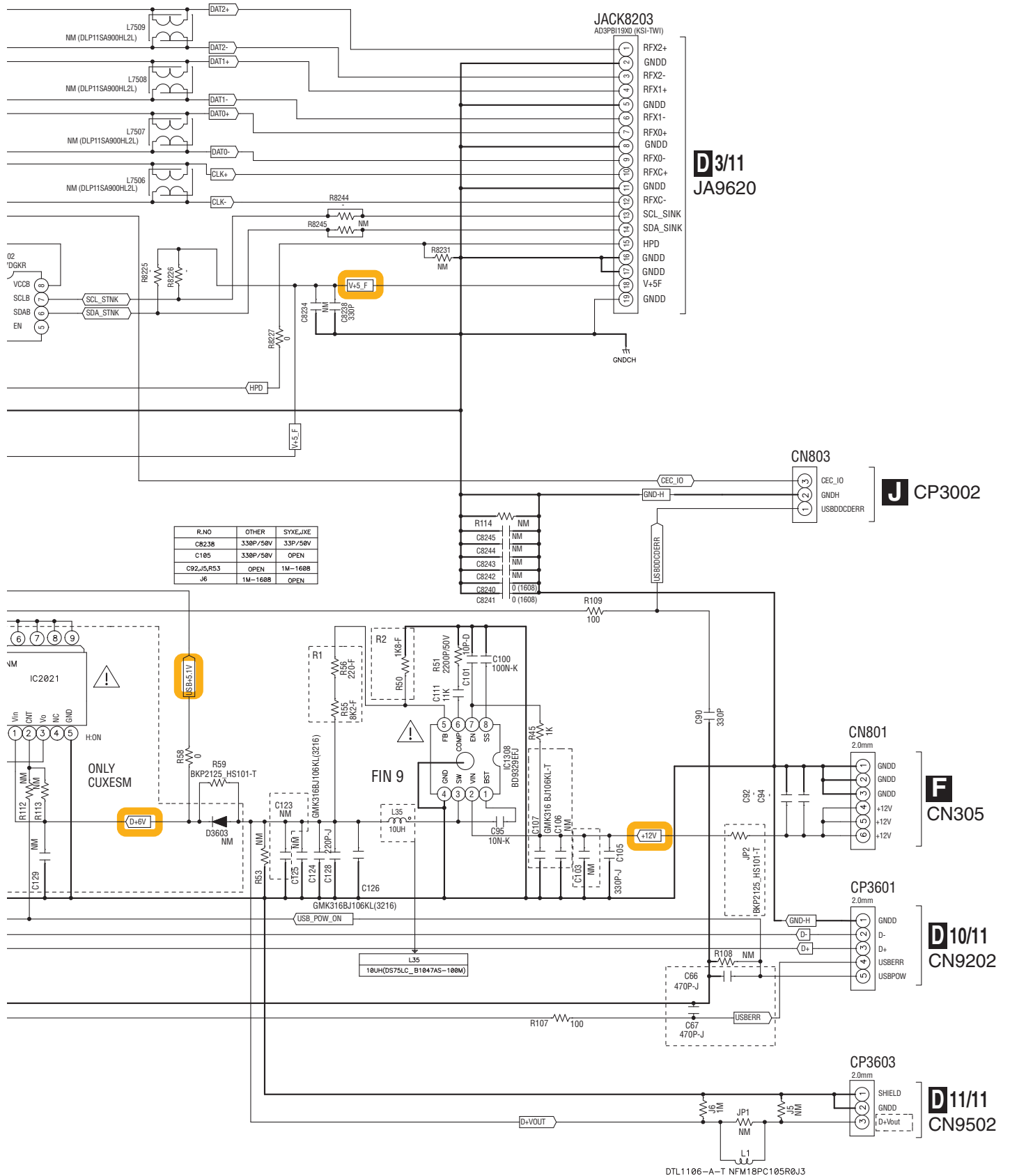
F



FHDMI ASSY

(VSX-1130-K/CUXESM, VSX-90/CUXE: 7028077881010)
(VSA-1130/JXEV: 7028077881030)

A



B

C

D

E

F

△

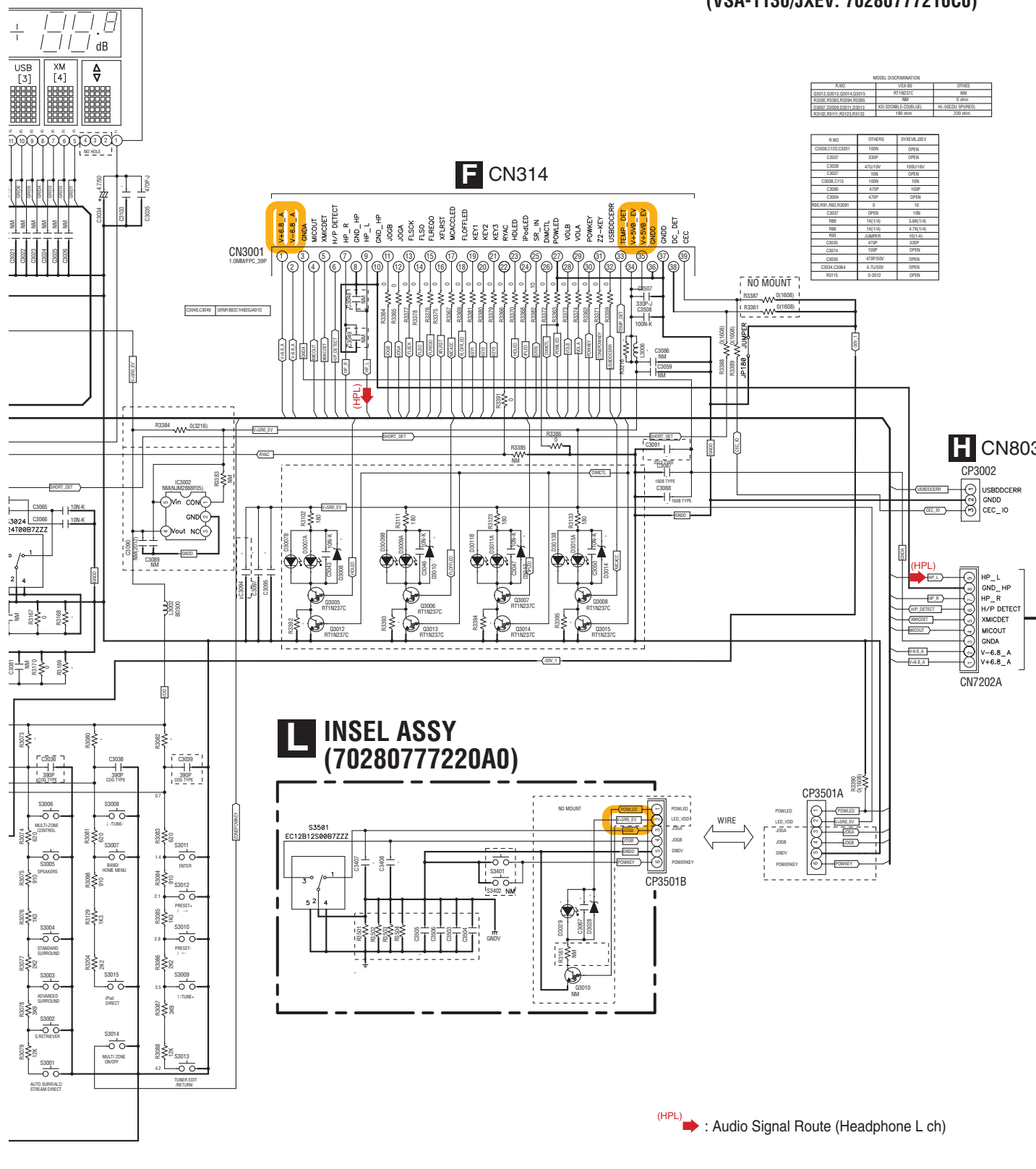
A



F

FRONT ASSY

(VSX-1130-K/CUXESM: 70280777210D0)
(VSX-90/CUXE: 70280777210A0)
(VSA-1130/JXEV: 70280777210C0)



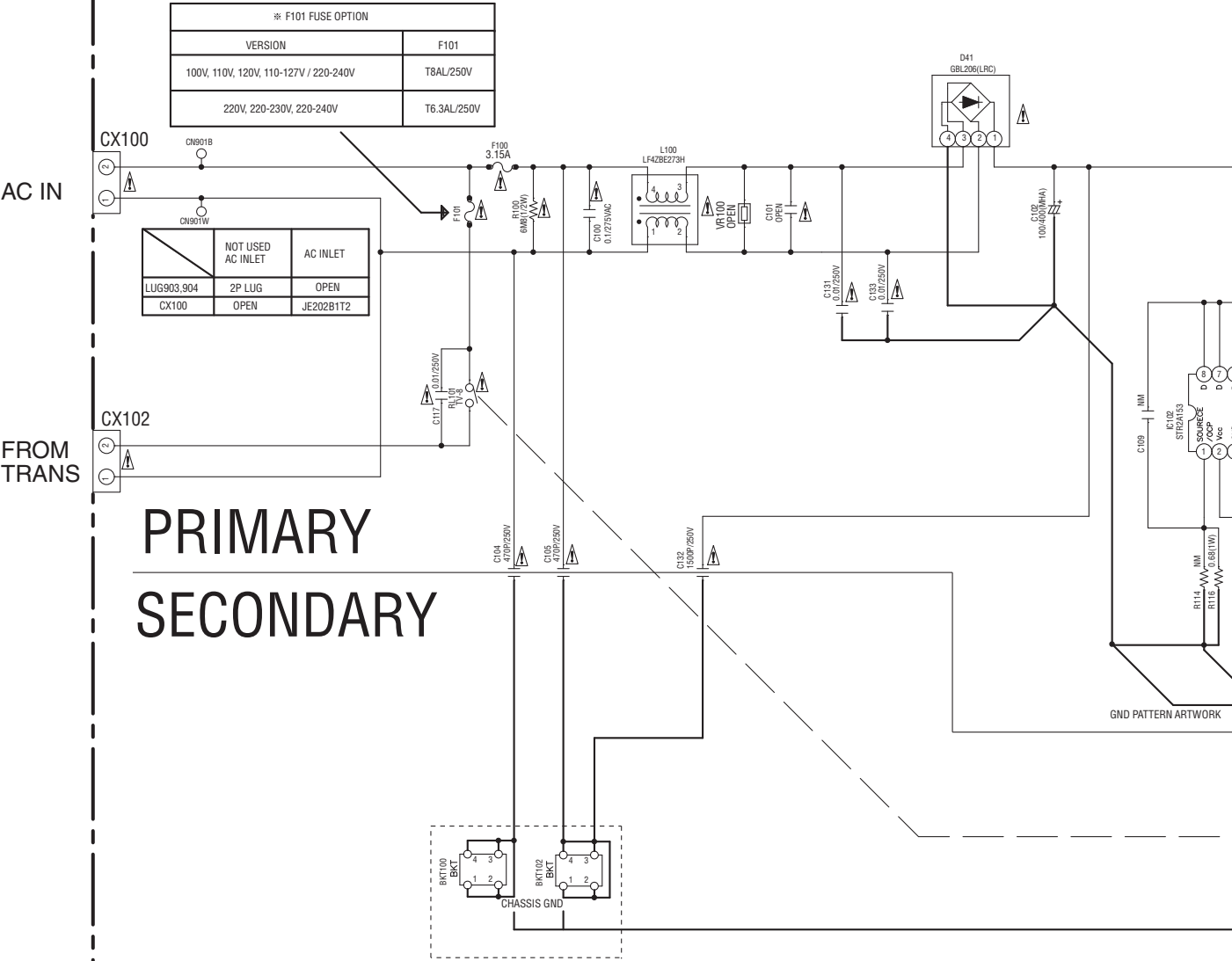
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Δ 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。

10.21 SMPS ASSY

NOTE FOR FUSE REPLACEMENT

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

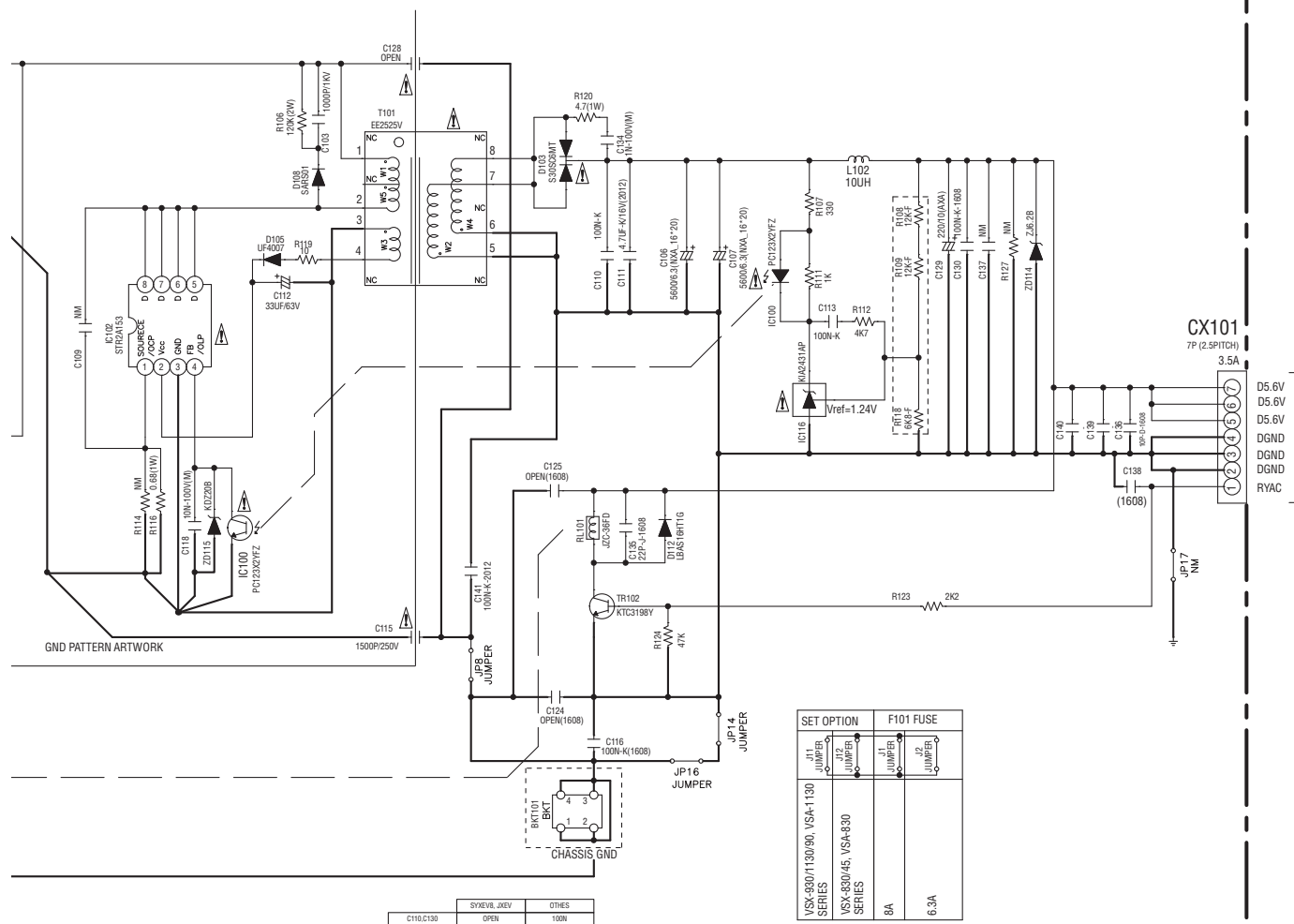


**M SMPS ASSY**

(VSX-1130-K/CUXESM: 702807336108B)

(VSX-90/CUXE: 702807336106B)

(VSA-1130/JXEV: 702807336109B)



	SYXEV8, JXEV	OTHES
C110,C130	OPEN	100N

SYXEV8, JXEV	OTHES
OPEN	100N

OTHERS
100N

SET OPTION	F101 FUSE
VSX-930/1130/90, VSA-1130 SERIES	J1 JUMPER
VSX-830/45, VSA-830 SERIES	J2 JUMPER
88A	J1 JUMPER
6.3A	J2 JUMPER

F101 FUSE	
J1 JUMPER	J2 JUMPER
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-microfarades]

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.

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.

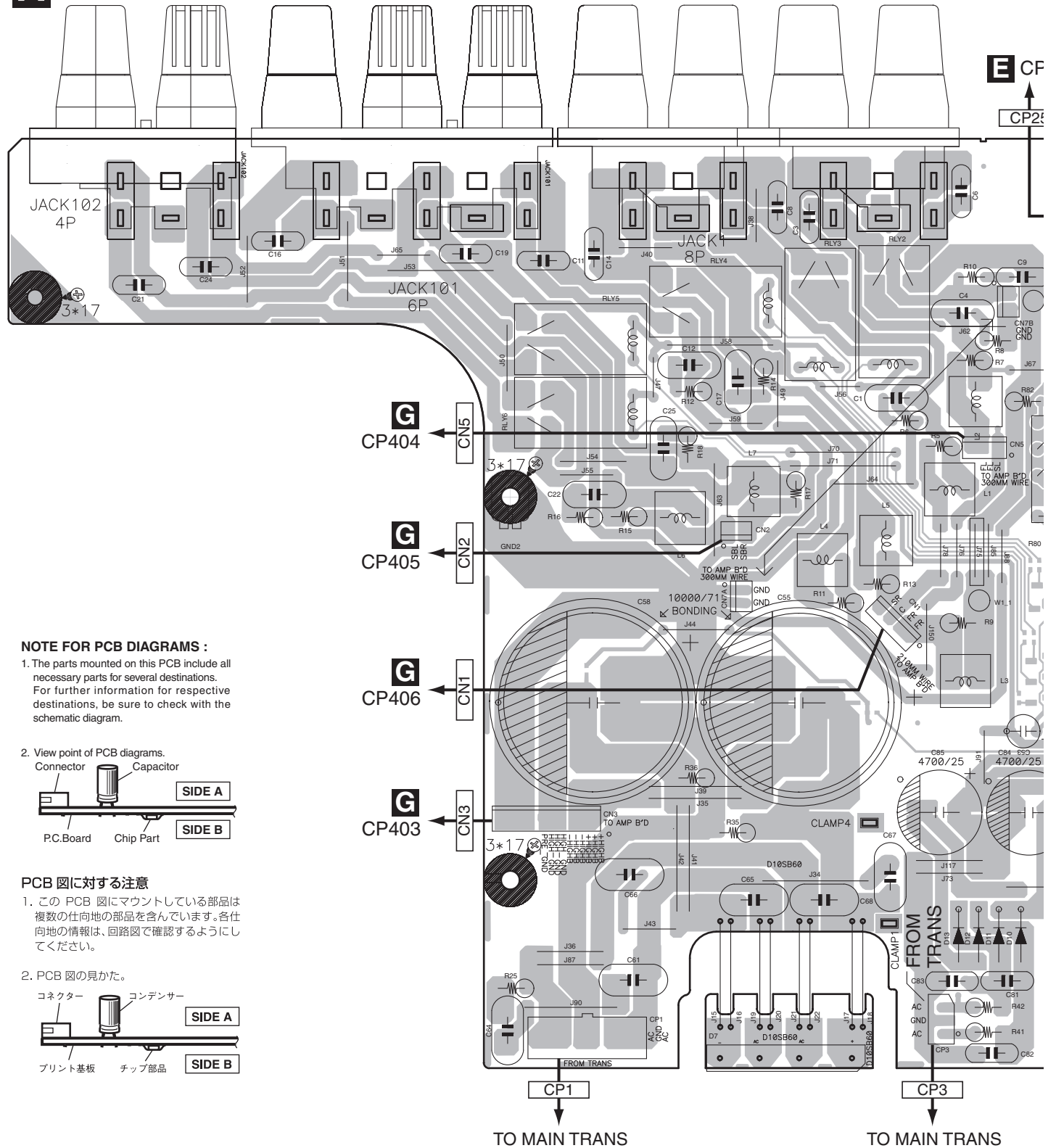
⚠ 印の部品は、安全上重要な部品です。
交換するときは、安全および性能維持のため
必ず指定の部品をご使用ください。

11. PCB CONNECTION DIAGRAM

11.1 MAIN ASSY

SIDE A

A MAIN ASSY



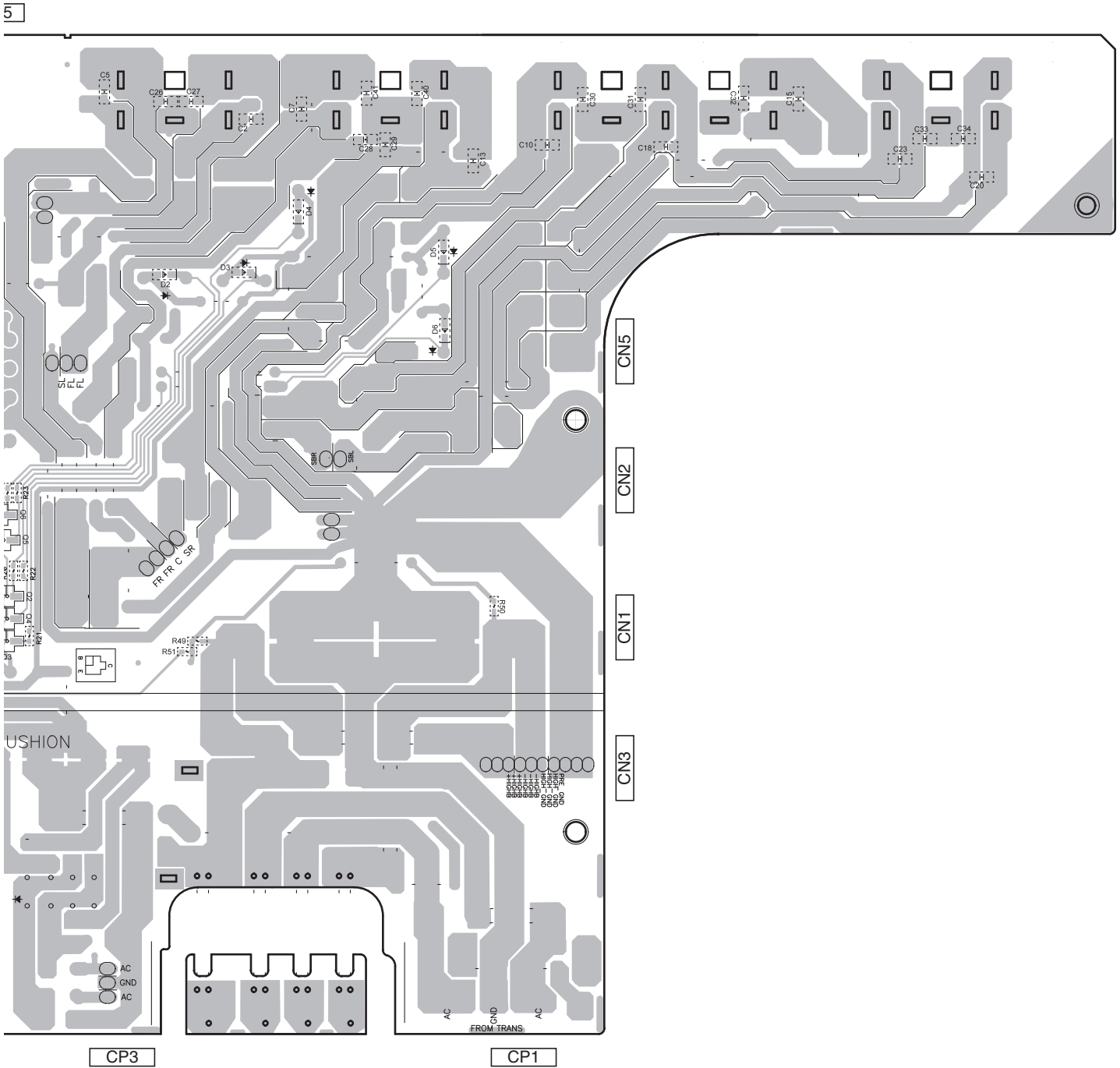
A



F

49

A
B
C
D
E
F



11.2 DMAIN ASSY

SIDE A

A

B DMAIN ASSY

H CP3603

CN9502

C CP2009

B CN1802

B

M CX101

CN9501

C

D

E

CN1801

CN1504

D CN2111

D CN2114

F

B

52

IC9408 IC451 IC9403 IC9602 IC9002 IC1602
 IC9510 IC1201 IC9703 IC9007 IC9523 IC1505 IC1511 IC1817 IC9101
 IC1801 IC1802 IC1206 IC1202 IC9008 IC1503 IC1515 IC1501 IC1509 IC9406 IC6
 IC1203 IC1518 Q1201 Q1501-Q1506
 IC1804 IC1506 IC1502
 Q9001

VSX-1130-K

1

2

3

4

NETWORK MODULE

SIDE A

H CP3601

CN9203
CN9204

CN9202

CN303A
F

CN902

CN302
F

CN607

D

E

JA9620

H JACK8203

CN601

F CN301

IC1602

IC9101
IC603

IC9207

IC9508
IC604

IC1605

IC1615

IC101-IC903
IC107IC101
IC9511

IC609

Q1001

IC9505
IC612IC9515
IC611

IC608

VSX-1130-K

B

SIDE B

A

B DMAIN ASSY

CN9202

CN9203
CN9204

B

CN902

C

CN607

D

E

JA9620

CN601

F

IC615
Q906-Q908
Q909-Q911
IC610

IC9206
IC9203
Q701
IC613

IC9202
IC909
IC103
IC105

IC9407
IC9502
IC102

IC1603
Q9606 Q9607
IC9009
IC9518
IC1521
IC9003

IC90

B

SIDE B

A

CN9502

CN1802

B

CN9501

C

D

E

CN1504

CN1801

3	Q9606 Q9607	Q9610	Q9608	Q9603	IC9603	IC9704	IC9702	IC1506
	IC9009	Q9611	Q9609		IC9520	IC1504	IC1205	
IC9518	IC9004		IC1601		IC9519			
IC1521	IC9003		IC1808 IC9001		IC9410	IC1204		
		IC9006 IC1812						

F

VSX-1130-K

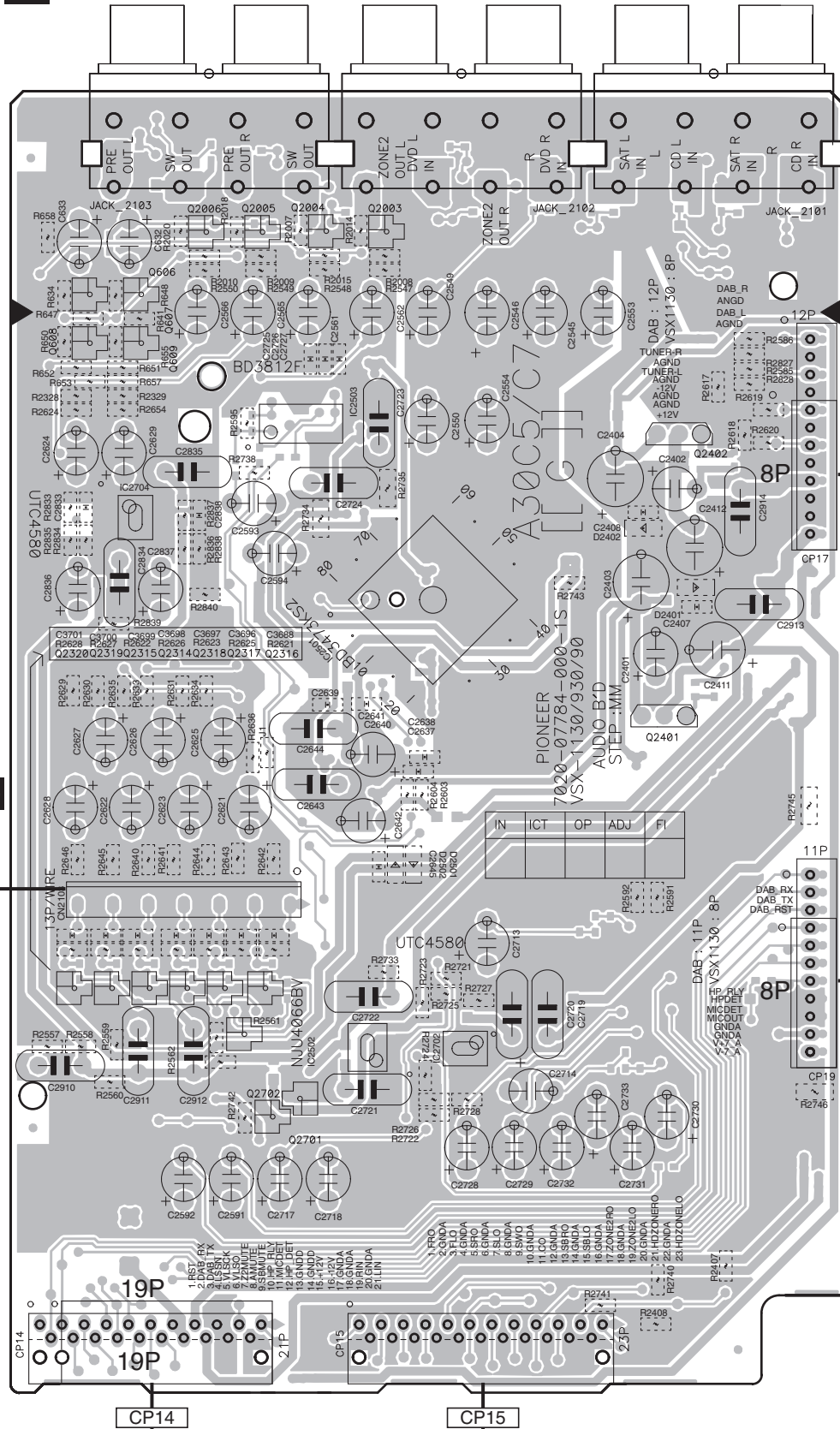
B

11.5 AUDIO ASSY

SIDE A

SIDE A

AUDIO ASSY



11.6 CPU ASSY

SIDE A

F CPU ASSY

B CN902

B CN607

CN303A

CN302

HIGH:17P

MID:9P

CLAMP3

CLAMP2

BURRING

BK300

JA300

JA301

JA302

JA303

JA304

JA305

JA306

JA307

JA308

JA309

JA310

JA311

JA312

JA313

JA314

JA315

JA316

JA317

JA318

JA319

JA320

JA321

JA322

JA323

JA324

JA325

JA326

JA327

JA328

JA329

JA330

JA331

JA332

JA333

JA334

JA335

JA336

JA337

JA338

JA339

JA340

JA341

JA342

JA343

JA344

JA345

JA346

JA347

JA348

JA349

JA350

JA351

JA352

JA353

JA354

JA355

JA356

JA357

JA358

JA359

JA360

JA361

JA362

JA363

JA364

JA365

JA366

JA367

JA368

JA369

JA370

JA371

JA372

JA373

JA374

JA375

JA376

JA377

JA378

JA379

JA380

JA381

JA382

JA383

JA384

JA385

JA386

JA387

JA388

JA389

JA390

JA391

JA392

JA393

JA394

JA395

JA396

JA397

JA398

JA399

JA400

JA401

JA402

JA403

JA404

JA405

JA406

JA407

JA408

JA409

JA410

JA411

JA412

JA413

JA414

JA415

JA416

JA417

JA418

JA419

JA420

JA421

JA422

JA423

JA424

JA425

JA426

JA427

JA428

JA429

JA430

JA431

JA432

JA433

JA434

JA435

JA436

JA437

JA438

JA439

JA440

JA441

JA442

JA443

JA444

JA445

JA446

JA447

JA448

JA449

JA450

JA451

JA452

JA453

JA454

JA455

JA456

JA457

JA458

JA459

JA460

JA461

JA462

JA463

JA464

JA465

JA466

JA467

JA468

JA469

JA470

JA471

JA472

JA473

JA474

JA475

JA476

JA477

JA478

JA479

JA480

JA481

JA482

JA483

JA484

JA485

JA486

JA487

JA488

JA489

JA490

JA491

JA492

JA493

JA494

JA495

JA496

JA497

JA498

JA499

JA500

JA501

JA502

JA503

JA504

JA505

JA506

JA507

JA508

JA509

JA510

JA511

JA512

JA513

JA514

JA515

JA516

JA517

JA518

JA519

JA520

JA521

JA522

JA523

JA524

JA525

JA526

JA527

JA528

JA529

JA530

JA531

JA532

JA533

JA534

JA535

JA536

JA537

JA538

JA539

JA540

JA541

JA542

JA543

JA544

JA545

JA546

JA547

JA548

JA549

JA550

JA551

JA552

JA553

JA554

JA555

JA556

JA557

JA558

JA559

JA560

JA561

JA562

JA563

JA564

JA565

JA566

JA567

JA568

JA569

JA570

JA571

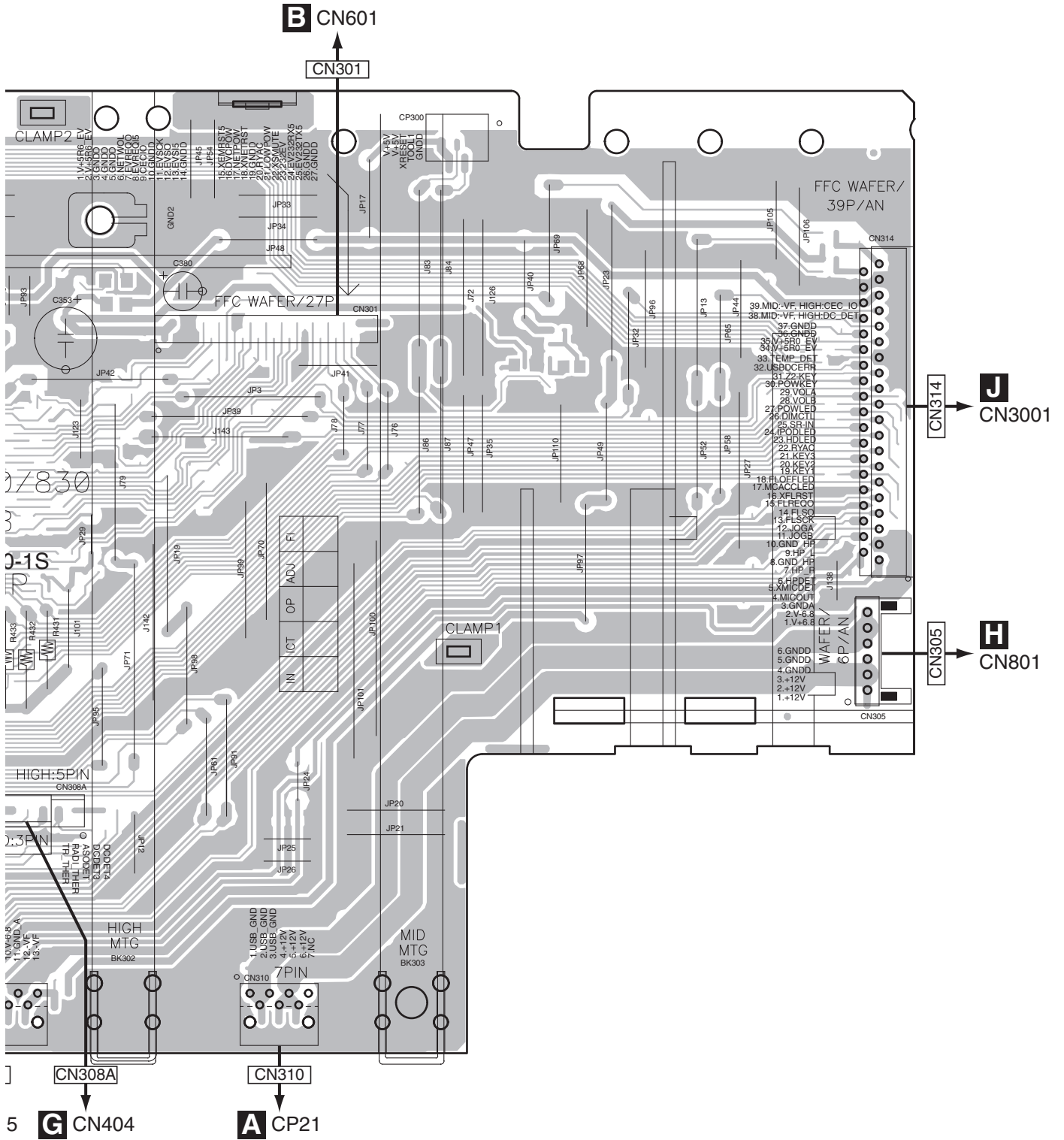
JA572

JA573

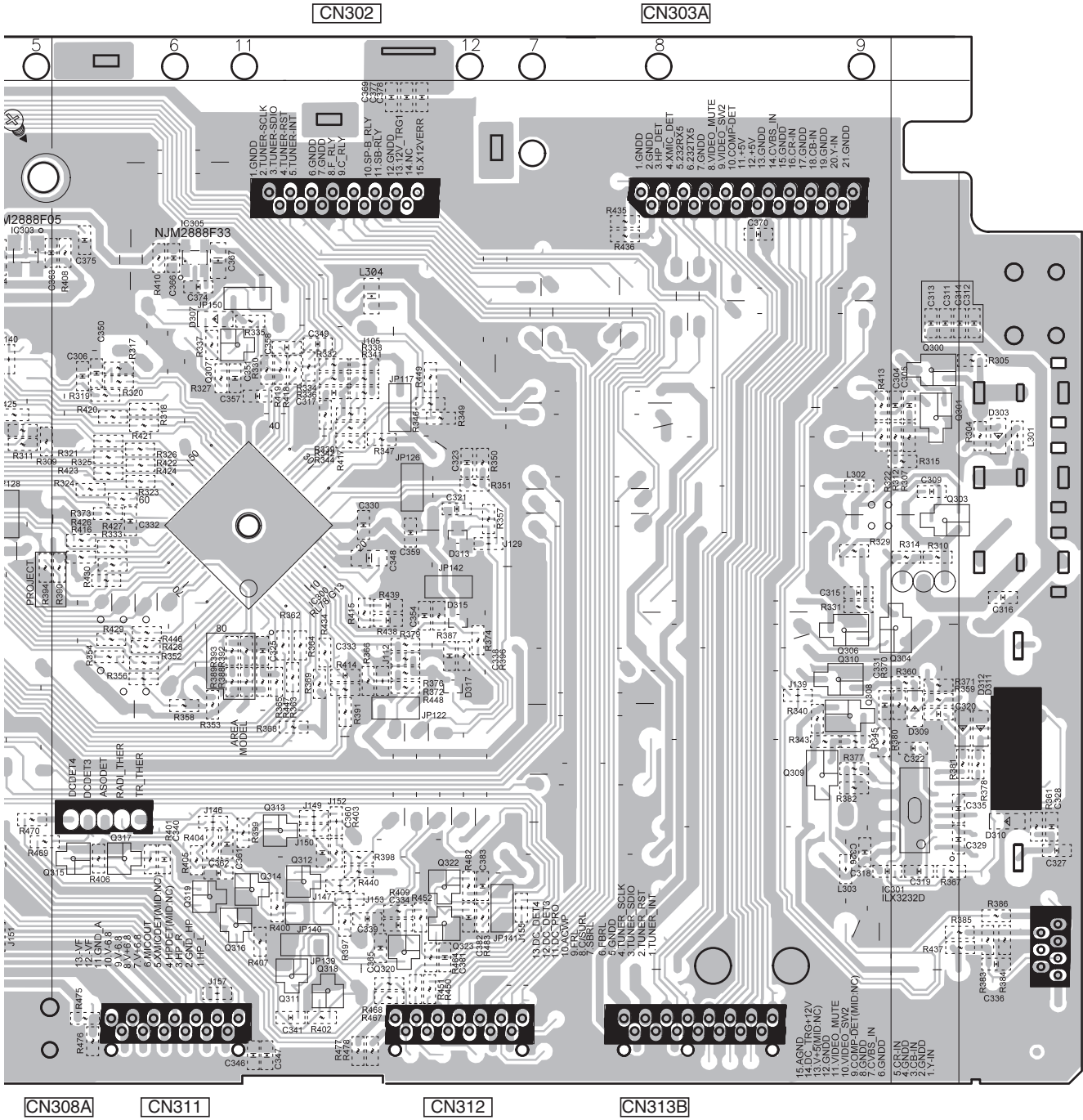
JA574

JA575

SIDE A



A
B
C
D
E
F

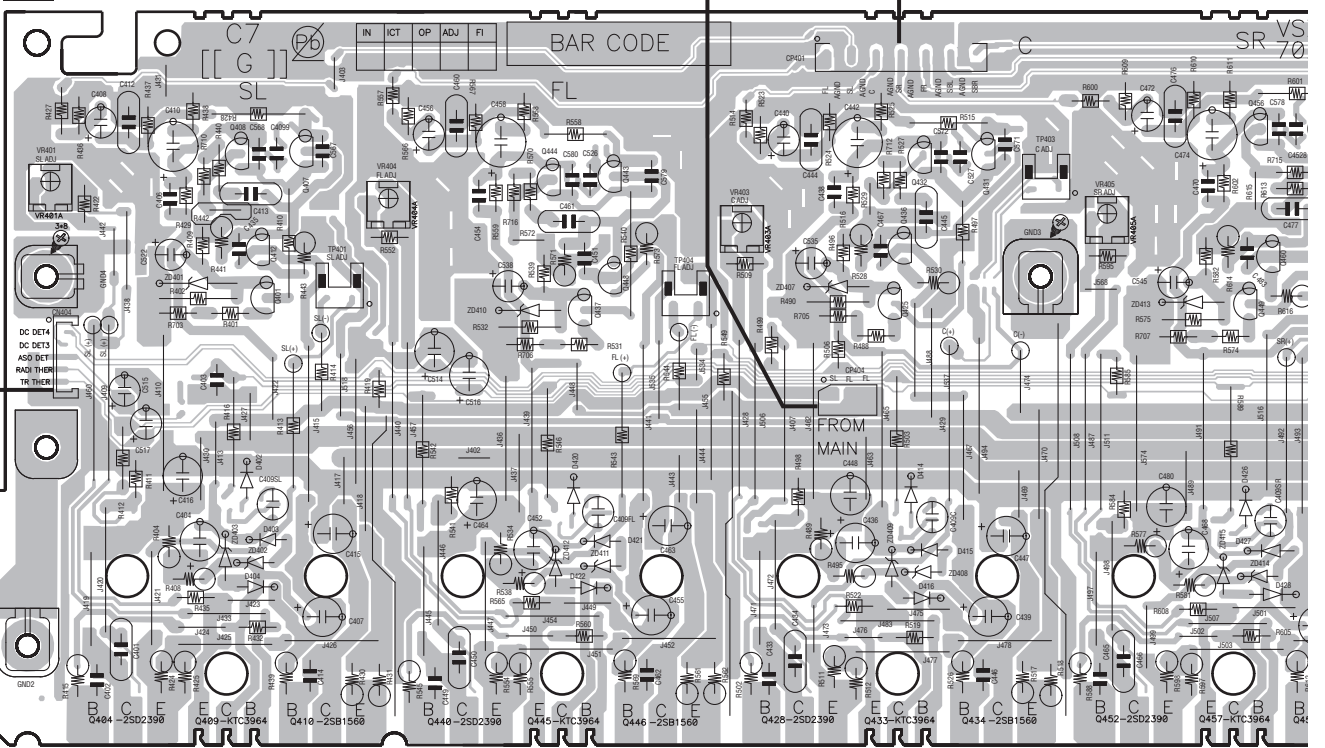


IC303	Q315	Q317	IC305	Q307	Q300
			IC300	Q313	Q301
			Q319	Q314	Q303
			Q316	Q311	
			Q318	Q320	Q308
				Q322	Q309
				Q323	IC301

11.7 AMP7 ASSY

SIDE A

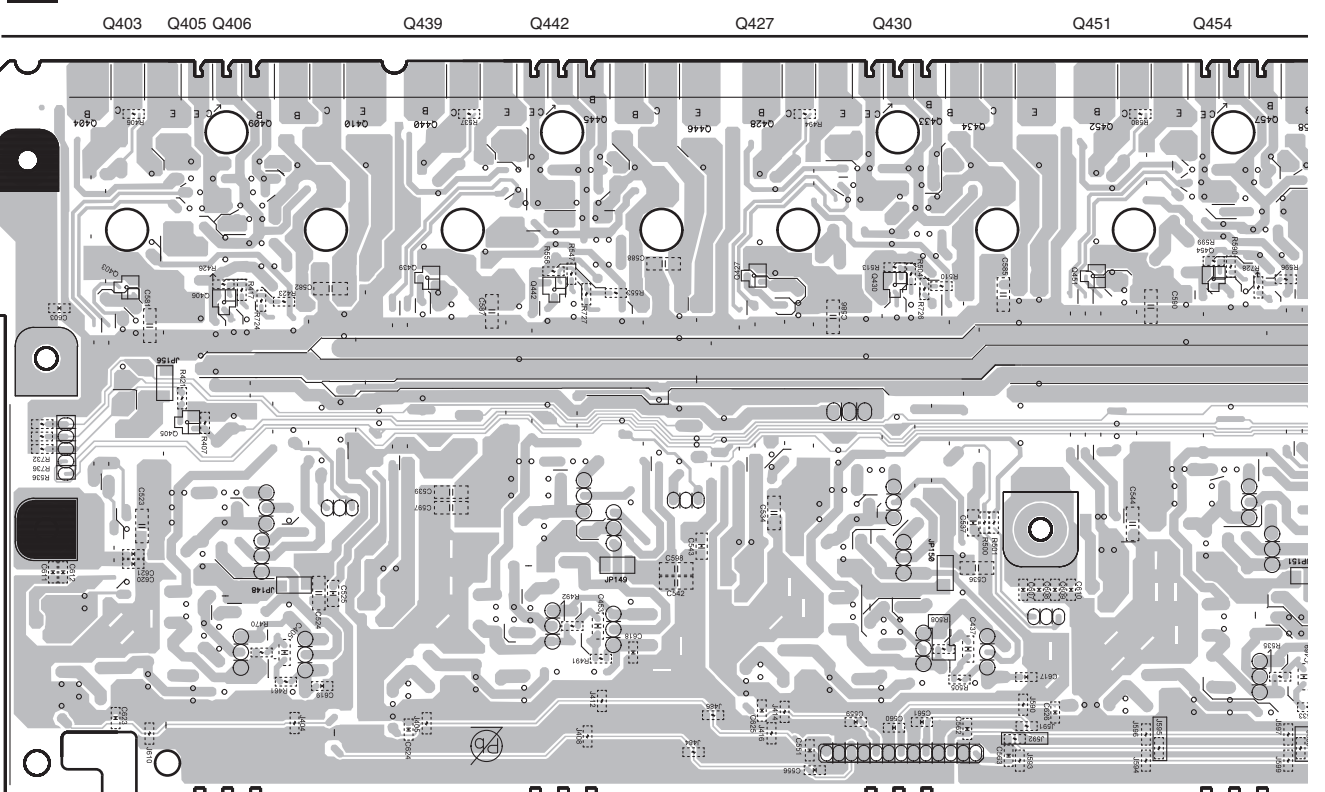
G AMP7 ASSY



VR401 Q408 Q412 Q407 VR404 Q444 Q448 Q443 VR403 Q432 Q431 VR405 Q456
Q404 Q409 Q401 Q410 Q440 Q445 Q437 Q446 Q428 Q433 Q434 Q452 Q460 Q449
Q457

SIDE B

G AMP7 ASSY



Q403 Q405 Q406 Q439 Q442 Q427 Q430 Q451 Q454

A CN1

A CN3

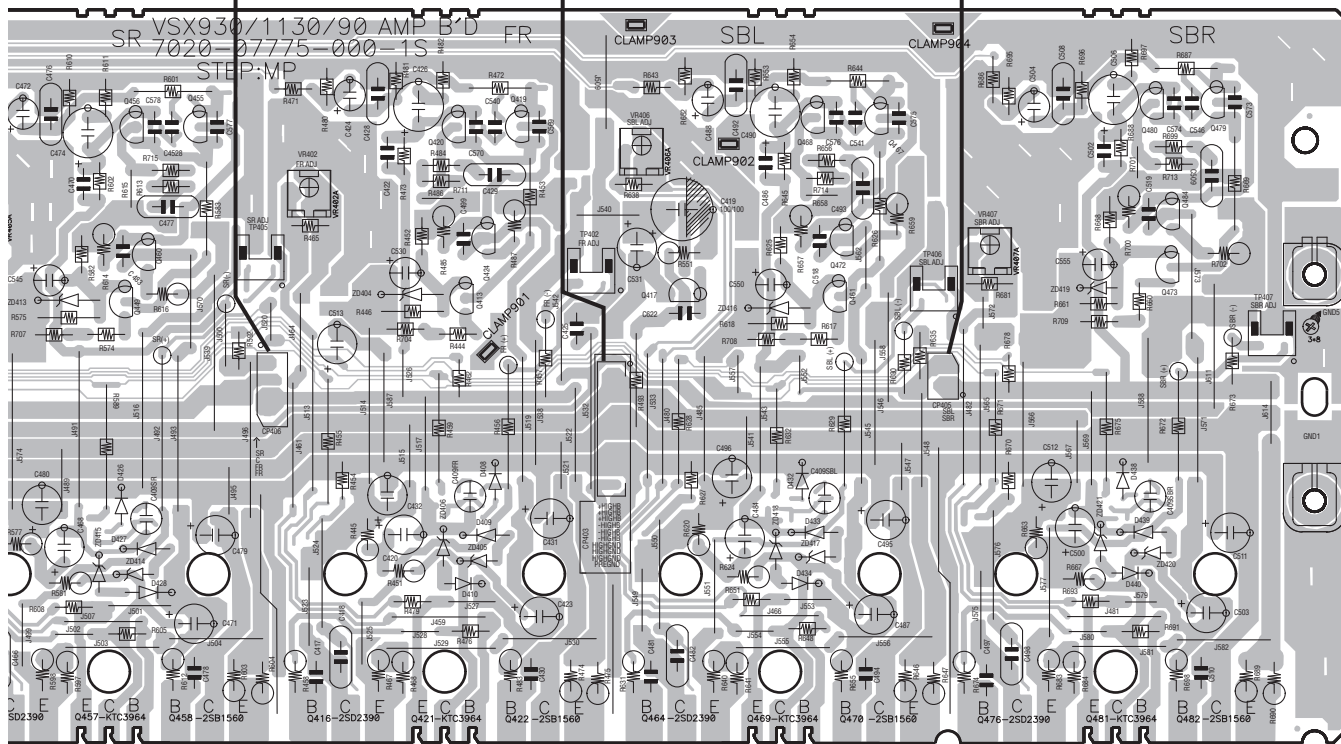
A CN2

SIDE A

A

B

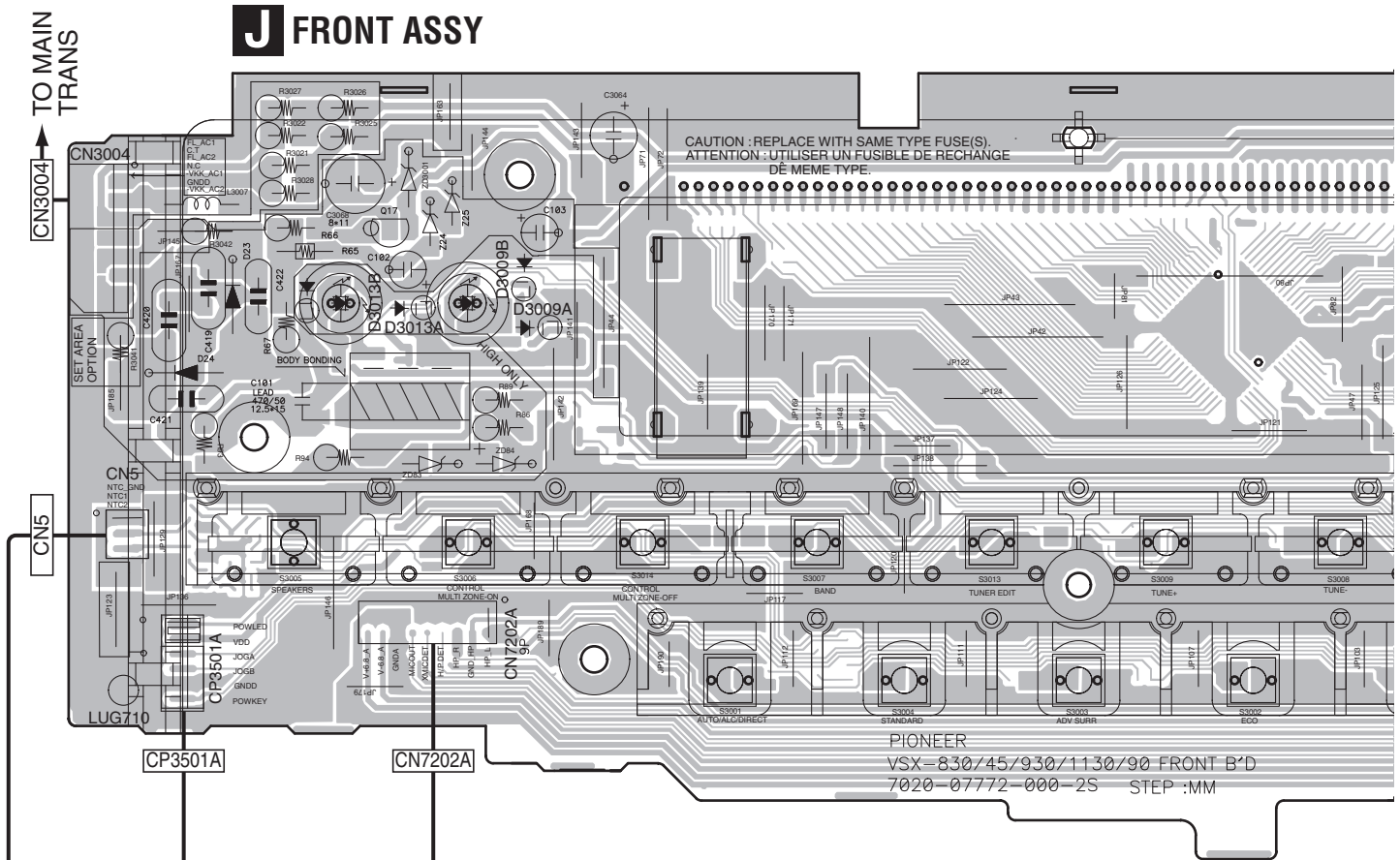
C



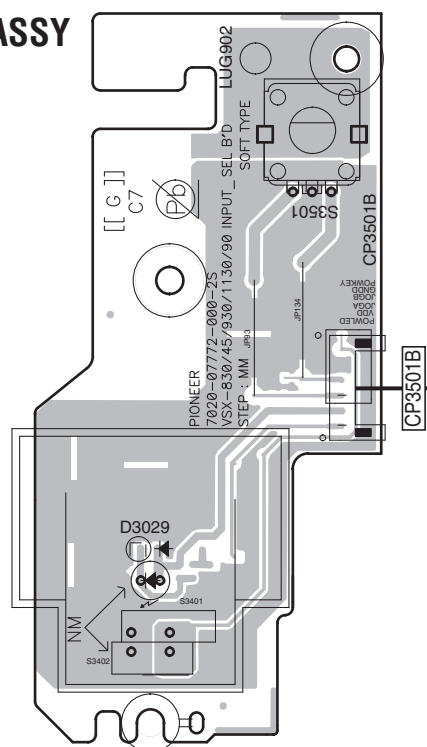
11.8 FHDMI, TEMP, FRONT, HPMIC and INSEL ASSYS

SIDE A

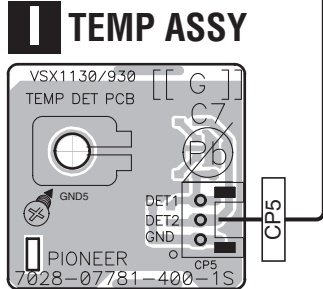
J FRONT ASSY



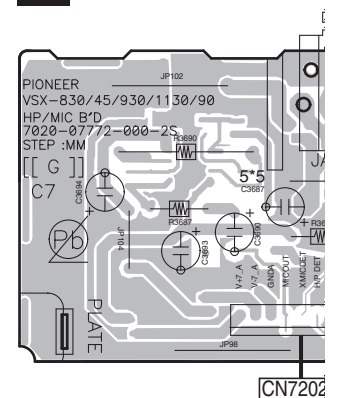
L INSEL ASSY



I TEMP ASSY



K HPMIC ASSY



I J K L

SIDE B

A

Q3007 Q3012
Q3014 Q3005
Q501 IC3002

IC301

J FRONT ASSY

B

CN3001

C

CP3002

D

H FHDMI ASSY

JACK8203 CN803 CP3603 CN801

E

K HPMIC ASSY

F

Q7504

CN7202B

IC3652

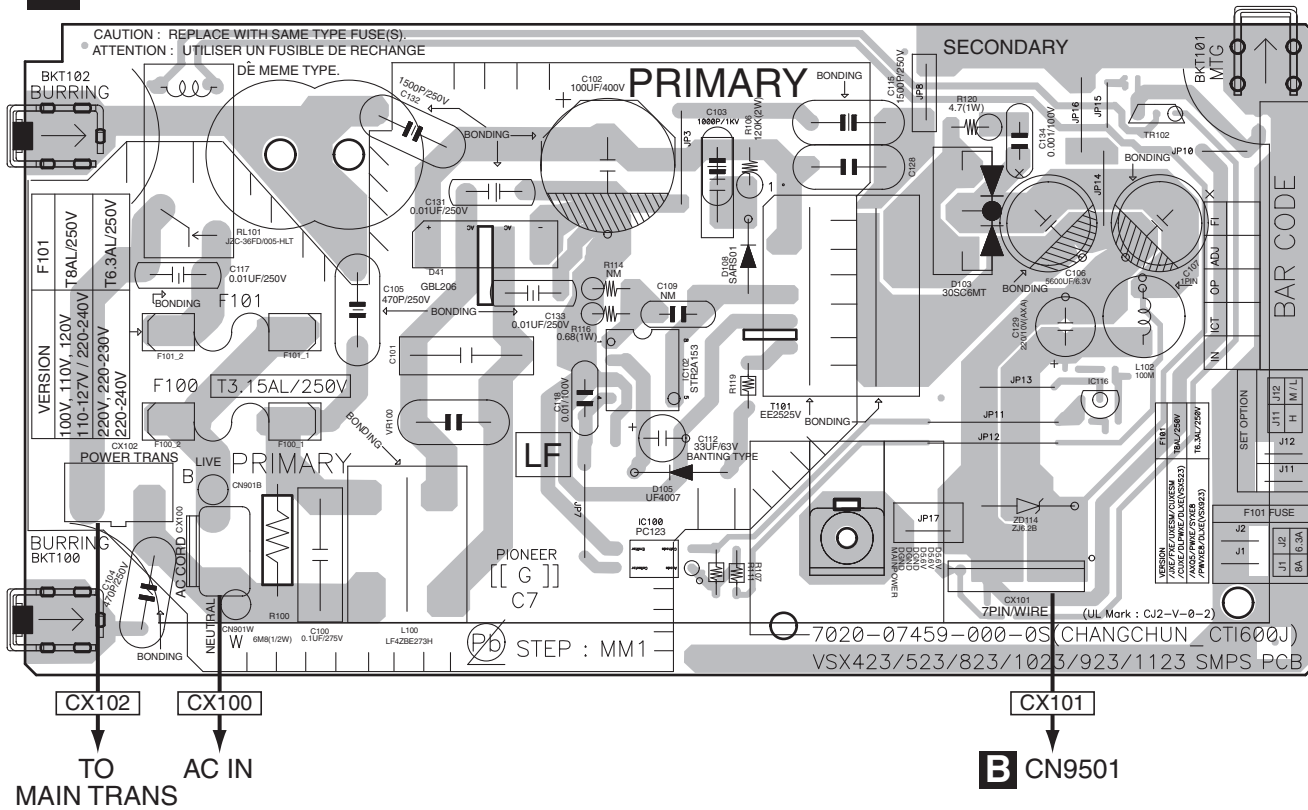
H J K

11.9 SMPS ASSY

SIDE A

SIDE A

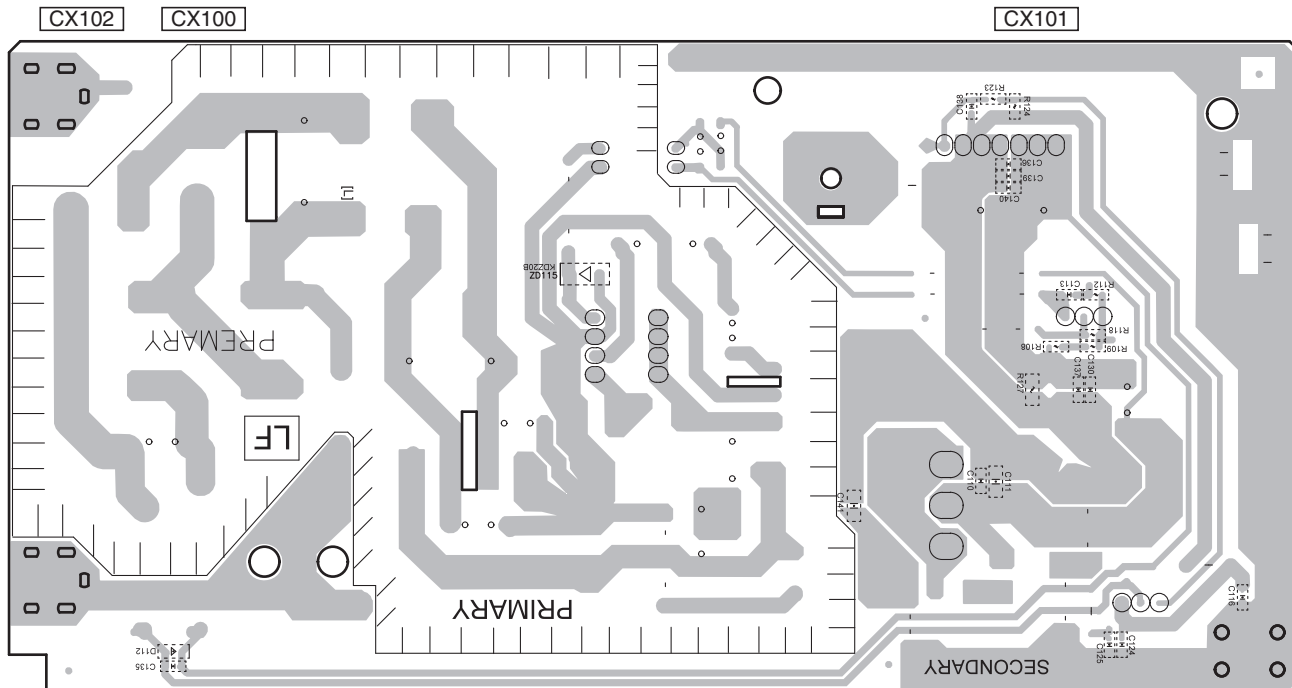
M SMPS ASSY



SIDE B

SIDE B

M SMPS ASSY



M

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 $\begin{bmatrix} 5 \\ 6 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \end{bmatrix} J$

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

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

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

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

5.62 k Ω $\rightarrow$ 562×10^1 $\rightarrow$ 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-1130-K /CUXESM	VSX-90 /CUXE	VSA-1130 /JXEV
NSP	1..PCB TTL ASSY MAIN	7025HK1401010	7025HK1401020	7025HK1401060
	2..MAIN ASSY (PCB SUB ASSY MAIN)	7028077811040	7028077811010	7028077811030
	2..BRIDGE ASSY (PCB SUB ASSY BRIDGE)	7028077812020	7028077812010	7028077812020
	2..GUI-A ASSY (PCB SUB ASSY GUI-A)	7028077813010	7028077813010	7028077813010
	2..G-R ASSY (PCB SUB ASSY G-R)	7028077814010	7028077814010	7028077814010
	2..G-L ASSY (PCB SUB ASSY G-L)	7028077815010	7028077815010	7028077815010
	2..TEMP ASSY (PCB SUB ASSY TEMP)	7028077816010	7028077816010	7028077816030
NSP	1..PCB TTL ASSY DMAIN	7025HK1401012	7025HK1401022	7025HK1401062
	2..DMAIN ASSY (PCB SUB ASSY DMAIN)	7028077871040	7028077871010	7028077871030
	2..NETWORK MODULE	AXX7293	AXX7293	AXX7293
NSP	1..PCB TTL ASSY FRONT	7025HK1401011	7025HK1401021	7025HK1401061
	2..FRONT ASSY (PCB SUB ASSY FRONT)	70280777210D0	70280777210A0	70280777210C0
	2..INSEL ASSY (PCB SUB ASSY INSEL)	70280777220A0	70280777220A0	70280777220A0
	2..OPTCO ASSY (PCB SUB ASSY OPTCO)	70280777230A0	70280777230A0	70280777230B0
	2..HPMIC ASSY (PCB SUB ASSY HPMIC)	70280777240A0	70280777240A0	70280777240A0
NSP	1..PCB TTL ASSY CPU	7025HK1401013	7025HK1401023	7025HK1401063
	2..CPU ASSY (PCB SUB ASSY CPU)	70280777310D0	70280777310A0	70280777310C0
NSP	1..PCB TTL ASSY AMP7	7025HK1401014	7025HK1401024	7025HK1401064
	2..AMP7 ASSY (PCB SUB ASSY AMP7)	7028077751010	7028077751010	7028077751030
NSP	1..PCB TTL ASSY AUDIO	7025HK1401015	7025HK1401025	7025HK1401065
	2..AUDIO ASSY (PCB SUB ASSY AUDIO)	7028077841040	7028077841010	7028077841030
NSP	1..PCB TTL ASSY SMPS	7025HK1401016	7025HK1401026	7025HK1401066
$\triangle$	2..SMPS ASSY (PCB SUB ASSY SMPS)	702807336108B	702807336106B	702807336109B
NSP	1..PCB TTL ASSY FHDMI	7025HK1401017	7025HK1401027	7025HK1401067
	2..FHDMI ASSY (PCB SUB ASSY FHDMI)	7028077881010	7028077881010	7028077881030

CONTRAST OF PCB ASSEMBLIES

A MAIN ASSY

7028077811040, 7028077811010 and 7028077811030 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077811040	7028077811010	7028077811030
⚠	IC5 Liner regulator IC	Not used	J126781200040-IL	Not used
	R85	Not used	C060033166050-IL	Not used
	50 Tuner,FM/AM	E903004100781S	E903004100781S	Not used

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

B DMAIN ASSY

7028077811040, 7028077811010 and 7028077811030 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077811040	7028077811010	7028077811030
	IC1802	Not used	AK4388ET	Not used

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

C OPTCO ASSY

70280777230A0 and 70280777230B0 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.

D BRIDGE ASSY

7028077812020 and 7028077812010 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077812020	7028077812010
	IC2802	Not used	J121458001010-IL

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

E AUDIO ASSY

7028077841040, 7028077841010 and 7028077841030 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	7028077841040	7028077841010	7028077841030
	IC2503	Not used	J084381200010S	Not used
	JA2102 Ter_RCA 4PIN	Not used	G602421E0002Y-IL	Not used
	JA2102 Ter_RCA 2PIN	Not used	Not used	G601206A0005Y-IL
	JA2103 Pin jack (2P)	G601206A0700Y-IL	G601206A0700Y-IL	Not used
	JA2103 Ter,RCA 4PIN	Not used	Not used	G602421E0046Y-IL

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

F CPU ASSY

70280777310D0, 70280777310A0 and 70280777310C0 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	70280777310D0	70280777310A0	70280777310C0
	IC301	Not used	J046323200020-IL	Not used
	Q302	Not used	J5000916Y0050-IL	Not used
	JA302 Jack_D3.5	Not used	G401PJ3080100-IL	Not used
	JA303 CN.Wafer Interface	Not used	L103090090040-IL	Not used

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

G AMP7 ASSY

7028077751010 and 7028077751030 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 FDMI ASSY

7028077881010 and 7028077881030 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 TEMP ASSY

7028077816010 and 7028077816030 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

70280777210D0, 70280777210A0 and 70280777210C0 are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	70280777210D0	70280777210A0	70280777210C0
	D3007,3009,3011,3013	K500052009011-IL	K500036000160-IL	K500052009011-IL

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

M SMPS ASSY

702807336108B, 702807336106B and 702807336109B are constructed the same with the exception of some components, including the following:

Mark	Symbol and Description	702807336108B	702807336106B	702807336109B
	CN9100 CN.Wafer 7.92MM	L108396030010-IL	L108396030010-IL	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 1	J126781200040-IL
IC 2	J126791200060-IL
IC 3	J126780500110-IL
IC 4	J127636300010S
IC 200	J127410500010-IL
Q 14,15	J522305200050-IL
Q 16	J520015301210-IL
D 7	K047100600220-IL
D 10-13	K000400700220-IL
D 19	K005041480230-IL
D 4912	K047604000030S
D 9002	K06004R744522-IL

MISCELLANEOUS

JA 1	TER_BOARD SCREW 8P	G614108V1010M-IL
JA 101	TER_BOARD SCREW 6P	G613602A0200Y-IL
JA 102	TER_BOARD SCREW 4P	G612405E0200Y-IL
JA 201	TER_RCA 6PIN	G603610A0051Y-IL
RY 2-6	RELAY	G680120502050-IL
RY 10	RELAY	G680240202030-IL
CN 9012,9015	CN_WAFER	L109012511340S
CN 9019,9025	CN.WAFER 2.0MM	L101911500810S
CN 9020	CN_WAFER	L109012511540S
CN 9021	CN.WAFER	L109012510740S

50	TUNER_FM/AM	E903004100781S
FU 33,34	FUSE_MICRO (4AL 250V)	G658402250050-IL

RESISTORS

R 5,7,9,11	C060010065050-IL
R 6,8,10,12	C060010066050-IL
R 13,15,17	C060010065050-IL
R 14,16,18	C060010066050-IL

Mark	No.	Description	Part No.
------	-----	-------------	----------

R 41,42	C060R22065050-IL
R 81,82	C060033166050-IL

CAPACITORS

C 55,58	D040103089230-IL
C 76	D040103083000-IL
C 84,85	D040472084020-IL

B DMAIN ASSY SEMICONDUCTORS

IC 101	R5S726B0D216FP
IC 102,9001,9702	J001986466020S
IC 103	8952VS1130011
IC 105,1521,1812,9006	TC7SH08FUS1
IC 107,608,612,1502	TC74VHCT08AFKS1

IC 603	PE7008A
IC 610,1509	74VHC126FT
IC 611	74VHCT126AFT
IC 613,1505,1601,1603	TC74VHC08FK
IC 901-903	74LCX541FT

IC 909	J044718100010-IL
IC 1201	AK5358AET
IC 1202	ES9006S
IC 1203-1206	J121456500090S
IC 1501,1503,1515,1516	TC74VHC157FK

IC 1504,1511	ICS511MLF
IC 1506	AK4118AEQ8
IC 1605,1615	AAT4610BIGV-1
IC 1801	AK4388ET
IC 1804,9003,9207	TC74VHC08FK

IC 1808,6304	TC7WHU04FK
IC 1817,1818	TC74VHC157FK

Mark	No.	Description	Part No.
------	-----	-------------	----------

	IC	9004	8952VS1130020
	IC	9007	TC7WZU04FK
	IC	9008	TC7SZU04FUS1

A

	IC	9101	74VHC541FT
	IC	9202	8952VS1130041
	IC	9208	TC7SH08FUS1
⚠	IC	9403,9408	MM3542BF
⚠	IC	9406	MM3411A50N

⚠	IC	9407,9508	MM3529A25P
⚠	IC	9410,9523	S-1172B12-E6
⚠	IC	9411	MM3411A33N
⚠	IC	9502	S-13A1A00-E6
⚠	IC	9505	MM3529A18P

B

⚠	IC	9510	MM3529A33P
⚠	IC	9511,9519	MM3529A50P
⚠	IC	9515	S-1172B1C-U5
⚠	IC	9518,9520	S-1172B13-E6
⚠	IC	9603	J046820650010S

	IC	9704	8952VS1130030
--	----	------	---------------

MISCELLANEOUS

JA 1601,1603,9601-9606	HDMI JACK	AKP7286
JA 9202	JACK_MODULAR	G4060RJ450230-IL
JA 9620	HDMI JACK	AKP7286

C

CAPACITORS

C 1509	D040222081000-IL
--------	------------------

C OPTCO ASSY
SEMICONDUCTORS

IC 2009	J040740400290-IL
---------	------------------

MISCELLANEOUS

JA 1305	MODULE	E100802000250-IL
JA 1306	TER_RCA 1PIN	G600107A0000Y-IL
CN2009	CN.WAFER	L101911500610S

D

D BRIDGE ASSY
SEMICONDUCTORS

IC 2803	J121458001010-IL
---------	------------------

MISCELLANEOUS

CN2107	CN_WAFER	L109012512340S
CN2111	CN_WAFER	L109012512740S
CN2114	CN_WAFER	L109012512540S
CN2204	CN_WAFER	L109012511940S

E

E AUDIO ASSY
SEMICONDUCTORS

IC 2501	BD3473KS2
IC 2502	J040406600010-IL
IC 2702,2704	J121458001010-IL
Q 2401	J5023198Y0000-IL
Q 2402	J5001266Y0050-IL

MISCELLANEOUS

JA 2101	TER_RCA 4PIN	G602421E0002Y-IL
JA 2103	PIN JACK (2P)	G601206A0700Y-IL

F

Mark	No.	Description	Part No.
------	-----	-------------	----------

F CPU ASSY
SEMICONDUCTORS

	IC	300	8952VS1130050
⚠	IC	303	NJM2888F05
⚠	IC	305	J126288833010S
	IC	306	J126077004210-IL
	IC	307	J126077004720S

MISCELLANEOUS

JA 300,301	JACK_D3.5	G401PJ3080100-IL
CN302	CN_WAFER	L109012511540S
CN303	CN_WAFER	L109012511740S

CAPACITORS

C 352,353	D040102081070-IL
-----------	------------------

G AMP7 ASSY
SEMICONDUCTORS

Q 401,407,408,413	J5000992FA050-IL
⚠ Q 404,416,428,440,452,467,476	J5032390Y0000-IL
Q 409,421,433,445,457,469,481	J502396400010-IL
⚠ Q 410,422,434,446,458,470,482	J5011560Y0000-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

RESISTORS

⚠ R 406,450,494,537	F320471001050-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 502,526,545,551	C060010165060-IL
⚠ R 511,512,517,518	N113136647820-IL
⚠ R 554,555,561,562	N113136647820-IL
R 569,588,612,631	C060010165060-IL

⚠ R 580,623,666	F320471001050-IL
⚠ R 597,598,603,604	N113136647820-IL
R 616,659,702	C060047065060-IL
⚠ R 640,641,646,647	N113136647820-IL
R 655,674,698	C060010165060-IL

⚠ R 683,684,689,690	N113136647820-IL
VR 401-407 VR_SEMI CARBON MOLD	C541102315020S

H FHDMI ASSY
SEMICONDUCTORS

⚠ IC 808	J046206501010S
IC 8202	PCA9517DGK

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
MISCELLANEOUS				MISCELLANEOUS			
	JA 600	CN_PLUG CONTACT	G480040030010S	⚠	L 100	COIL_LINE FILTER	D320201405510-IL
	JA 8082	CN.WAFER	L109100190250S	⚠	RY 101	RELAY	G680060103030-IL
I TEMP ASSY				⚠	T 101	TRANS_SWITCHING	E060252505510-IL
RESISTORS				⚠	CN 9100	CN.WAFER 7.92MM	L108396030010-IL
	R 83,84		F340160801030S	⚠	CN 9102	CN.WAFER 7.92MM	L108011430210-IL
J FRONT ASSY					100,102	BRACKET	4010215796000-IL
SEMICONDUCTORS					101	BRACKET	4010210196000-IL
	IC 3001		PD8198A	⚠	FU 100	FUSE GLASS TUBE 20MM (3.15 A)	N751503151160-IL
	Q 17		J5000916Y0050-IL	⚠	FU 101	FUSE GLASS TUBE 20MM (T8AL/250V)	N751508001160-IL
	Q 19,20,24		J522305200050-IL		Z 9115	D_ZENER CHIP	K06620R04P410-IL
	Q 3011		J5001266G0050-IL	RESISTORS			
	D 9,18,20		K005041480230-IL	⚠	R 100		C060068564520-IL
⚠	D 23,24		K000400700220-IL		R 106		C060012466050S
	D 3001		K06006R844522-IL		R 116		C060R68065050-IL
	D 3007,3009,3011,3013		K500052009011-IL		R 120		C0604R7065050-IL
	D 9024,9025,9083,9084		K06012R044522-IL	CAPACITORS			
MISCELLANEOUS				⚠	C 100		D02110407H010-IL
	V 3001	DISPLAY_FLT	K530166400012-IL		C 102		D04010108K000-IL
	S 3001-3015	SWITCH	G180501000010-IL		C 103		D00810207Q010-IL
	S 3024	SW_ENCODER	G121122400231S	⚠	C 104,105		D00847127H010-IL
	1	HOLDER	4320211306000-IL		C 106,107		D041562081001-IL
	U 3001	MODULE_REMOCON	E940349003810-IL		C 112		D041330088050S
RESISTORS				⚠	C 115,132		D00815248H010-IL
	R 66		N113135647920-IL	⚠	C 117,131,133		D008103589010-IL
	R 3021,3022		C0601R8065050S		C 129		D041221082230-IL
K HPMIC ASSY				C			
SEMICONDUCTORS				D			
	IC 3652		J121458001010-IL	D			
MISCELLANEOUS				D			
	JA 701	JACK_D6.5	G402PJ612AG1Y-IL	D			
	JA 3655	JACK_D3.5	G40132340000Y-IL	D			
L INSEL ASSY				D			
MISCELLANEOUS				D			
	S 3401	SWITCH	G180501000010-IL	D			
	S 3501	SW_ENCODER	G121121200230-IL	D			
M SMPS ASSY				D			
SEMICONDUCTORS				D			
⚠	IC 100		K614123000010-IL	D			
⚠	IC 102		J122201530080-IL	D			
⚠	IC 116		J126243118010-IL	D			
	Q 102		J5023198Y0000-IL	D			
⚠	D 41		K047200600010-IL	D			
⚠	D 103		K120300600010-IL	D			
	D 105		K050400700010-IL	D			
	D 108		K050010010010-IL	D			
	D 9114		K06006R244522-IL	D			