

Service Manual

ORDER NO.
RRV4343

AV Receiver

VSX-322-K

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

Model	Type	Power Requirement	Remarks
VSX-322-K	SYXE8	AC 220 V to 230 V	
VSX-322-K	DLPWXE	AC 220 V to 240 V	

This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
HTP-071/SYXE8	RRV4273	VSX-321-K-P/SYXE8, DLPWXE

For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.

1. CONTRAST OF MISCELLANEOUS PARTS

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

● Screws adjacent to ▼ mark on product are used for disassembly.

● For the applying amount of lubricants or glue, follow the instructions in this manual.

(In the case of no amount instructions, apply as you think it appropriate.)

● Nos. indicate the pages and Nos. in the service manual for the base model.

● 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 47k ohm (tolerance is shown by J=5%, and K=10%).

560Ω → 56 x 10¹ → 561 RD1/4PU    J

47kΩ → 47 x 10³ → 473 RD1/4PU    J

0.5Ω → R50 RN2H    K

1Ω → 1R0 RS1P    K

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

5.62kΩ → 562 x 10¹ → 5621 RN1/4PC     F

CONTRAST TABLE

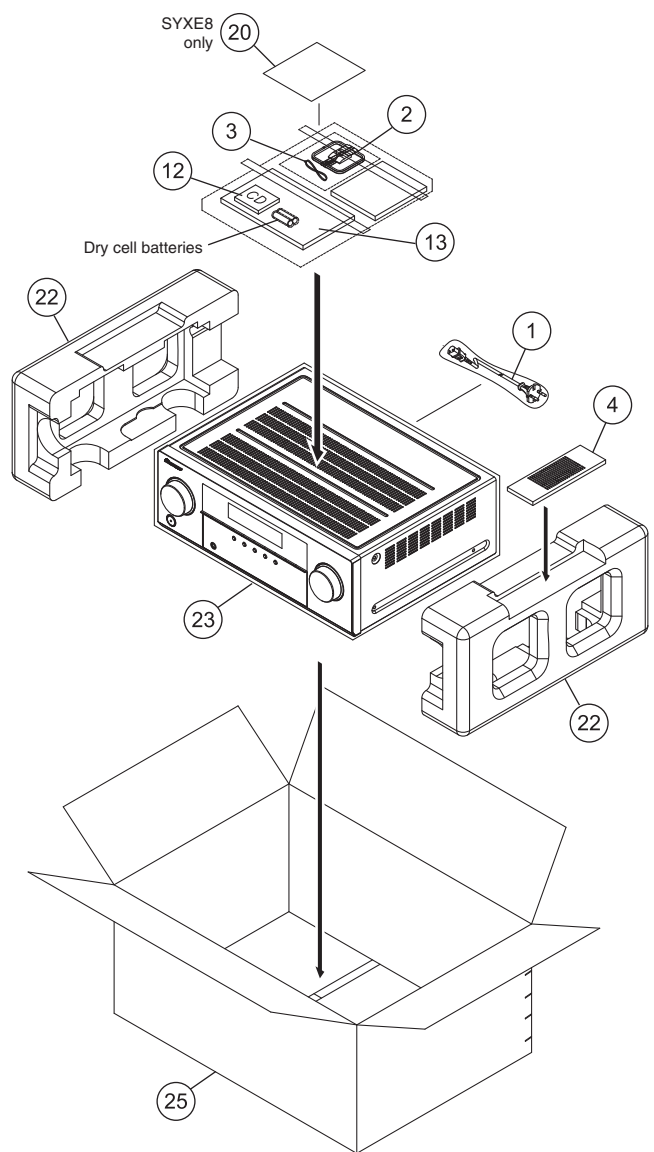
VSX-321-K-P/SYXE8, VSX-322-K/SYXE8 and VSX-322-K/DLPWXE are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-321-K-P/SYXE8	VSX-322-K/SYXE8	VSX-322-K/DLPWXE	Remarks
NSP	P58-4	PCB ASSEMBLIES				
		1..PCB TTL ASSY FRONT	7025HK1103011-IL	7025HK1123021-IL	7025HK1123031-IL	
	2..HP Assy	7028071134010-IL	7028071134050-IL	7028071134050-IL		
	P58-5	1..PCB TTL ASSY D-MAIN	7025HK1103012-IL	7025HK1123022-IL	7025HK1123032-IL	
		2..D-MAIN Assy	7028071161010-IL	7028071161040-IL	7028071161040-IL	
	P58-6 P58-7	1..PCB TTL ASSY INPUT	7025HK1103013-IL	7025HK1123023-IL	7025HK1123033-IL	
2..DG Assy		7028071111010-IL	7028071113010-IL	7028071113010-IL		
NSP	P58-7	2..INPUT Assy	7028071112010-IL	7028071114010-IL	7028071114010-IL	
NSP	P58-8	1..PCB TTL ASSY AMP	7025HK1103014-IL	7025HK1123024-IL	7025HK1123034-IL	
		2..AMP Assy	7028071141010-IL	7028071143010-IL	7028071143010-IL	
NSP		1..PCB TTL ASSY CNT	7025HK1103015-IL	7025HK1123025-IL	7025HK1123035-IL	
NSP	P58-10 P58-11	1..PCB TTL ASSY MAIN	7025HK1103040-IL	7025HK1123020-IL	7025HK1123030-IL	
		2..MAIN Assy	7028071121040-IL	7028071121050-IL	7028071121060-IL	
		2..STBY Assy	7028071122040-IL	7028071122040-IL	7028071122020-IL	
	PACKING SECTION					
	P55-1	Power Cord	L068250160020-IL	L068250160020-IL	L068250160020-IL	
	P55-2	AM Loop Antenna	E601019000010-IL	E601019000010-IL	E601019000010-IL	
	P55-3	FM Wire Antenna	E605010140010-IL	E605010140010-IL	E605010140010-IL	
	P55-4	Remote Control (AXD7618)	8300761800010-IL	8300761800010-IL	8300761800010-IL	
	P55-12	Operating Instructions (CD-ROM)	6517000000440-IL	6517000000770-IL	6517000000790-IL	
NSP	P55-13	Quick Start Guide	5707000006110-IL	5707000006850-IL	5707000006870-IL	
	P55-20	Warranty Card	ARY7127	ARY7158	Not used	
	P55-22	Cushion, Snow	6230212914000-IL	6230212914000-IL	6230212914000-IL	
	P55-23	PE, Sheet	6327040059000-IL	6327040059000-IL	6327040059000-IL	
	P55-25	Box, Gift	6007211970030-IL	60072118201E0-IL	60072118201F0-IL	
	VSX-321-K-P SECTION					
	P58-30	Front Panel	3067215081140-IL	3067215081150-IL	3067215081150-IL	
	P58-31	Chassis Back	3207214056110-IL	3207214056200-IL	3207214056210-IL	
		Sheet	Not used	1210210772100-IL	1210210772100-IL	No. 62
		Screw Cover	Not used	4050211745100-IL	4050211745100-IL	No. 63

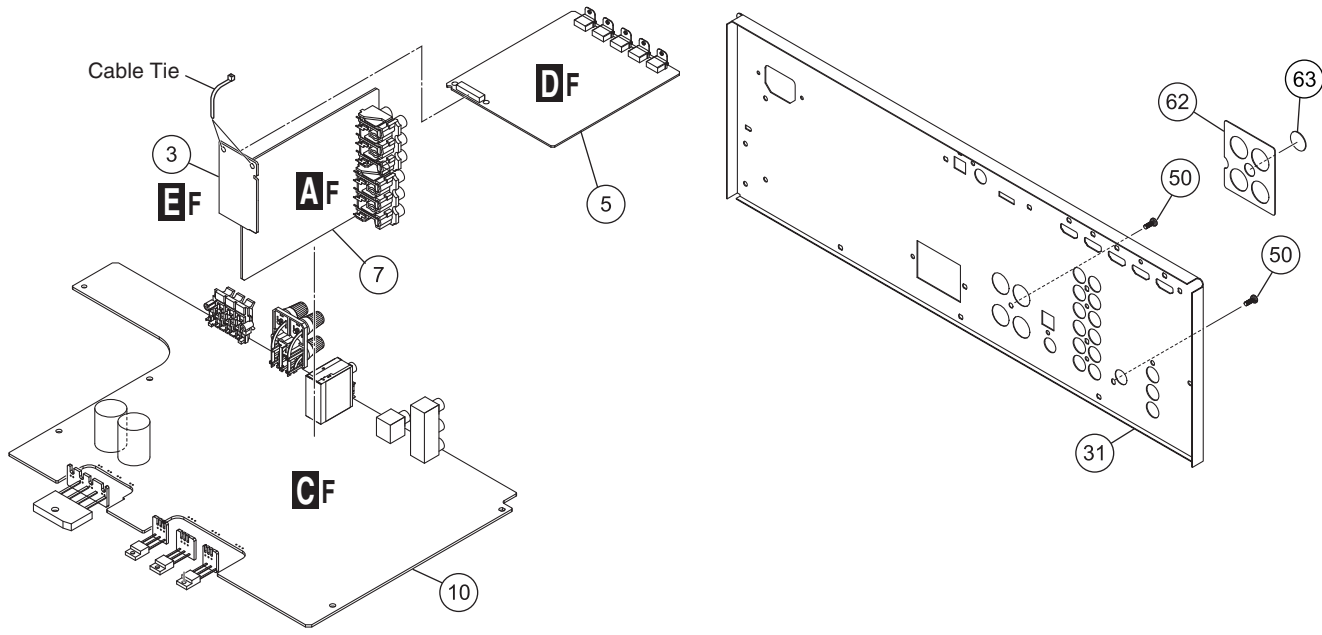
Notes : The numbers in the remarks column correspond to the numbers on the "EXPLODED VIEWS".

For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES" and "3. SCHEMATIC DIAGRAM".

EXPLODED VIEWS
PACKING SECTION



VSX-321-K-P SECTION



CONTRAST OF PCB ASSEMBLIES

A F INPUT ASSY

A 7028071112010-IL and 7028071114010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071112010-IL	7028071114010-IL	Remarks
	Q425, Q428	J544117Y01150-IL	Not used	
	Q429, Q430	Not used	J544049201210-IL	
	J400 CN,WIRE 2MM	L002201122620-IL	Not used	
	500 RING,TER WIRE	8410201010070-IL	Not used	

Note: For the above Assy's, apart from the registered parts for service described above, some nonregistered parts are also different.

B F AMP ASSY

B 7028071141010-IL and 7028071143010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071141010-IL	7028071143010-IL	Remarks
	D208	J5001268B0050-IL	Not used	
	Q203, Q207	J5023200B0050-IL	J5023206Y0050-IL	

Note: For the above Assy's, apart from the registered parts for service described above, some nonregistered parts are also different.

C F MAIN ASSY

C 7028071121040-IL, 7028071121050-IL and 7028071121060-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071121040-IL	7028071121050-IL	7028071121060-IL	Remarks
	IC203	8952VS3210010-IL	8952VS3220010-IL	8952VS3220010-IL	
	Q602, Q603	Not used	J5222875B0010-IL	J5222875B0010-IL	
	JA1 TER,BOARD PUSH 4P	G594408SA030Y-IL	Not used	Not used	
	JA1 TER,BOARD SCREW 4P	Not used	G612405E0200Y-IL	G612405E0200Y-IL	
	JA2 TER,BOARD PUSH 8P	G598801SA050Y-IL	Not used	Not used	
	JA2 TER,BOARD PUSH 6P	Not used	G598801SA021Y-IL	G598801SA021Y-IL	
	JA4 TER,RCA 1PIN	Not used	G600107A0000Y-IL	G600107A0000Y-IL	
	601 TUNER,FM/AM	E903104100780-IL	E903104100780-IL	E903004100780-IL	
	R17, R18	C060010065050-IL	Not used	Not used	

Note: For the above Assy's, apart from the registered parts for service described above, some nonregistered parts are also different.

D F D-MAIN ASSY

D 7028071161010-IL and 7028071161040-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071161010-IL	7028071161040-IL	Remarks
	IC201	8952VS3210020-IL	8952VS3220020-IL	

Note: For the above Assy's, apart from the registered parts for service described above, some nonregistered parts are also different.

F F HP ASSY

E 7028071134010-IL and 7028071134050-IL are constructed the same except for the following:

Mark	Symbol and Description	7028071134010-IL	7028071134050-IL	Remarks
	JA 701 JACK,D6.5	G402PJ612AG1Y-IL	G402PJ612A09Y-IL	

I F DG ASSY

Although 7028071111010-IL and 7028071113010-IL are different in part number and they are NOT COMPATIBLE, they consist of the same service components.

N F STBY ASSY

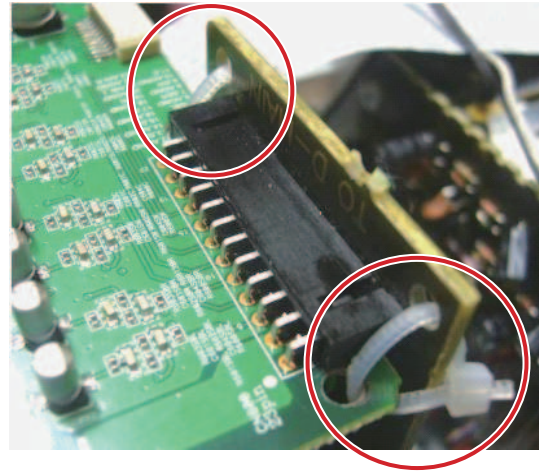
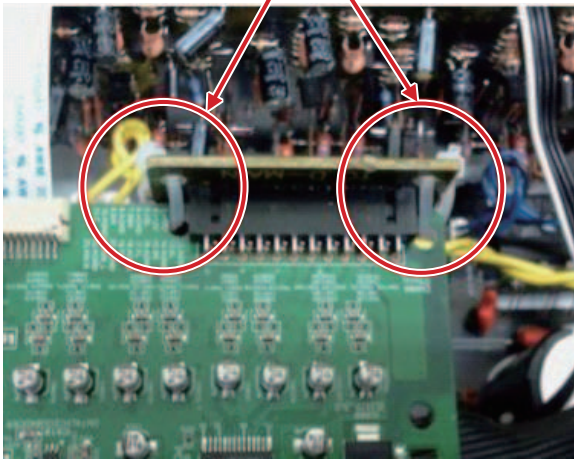
F Although 7028071122040-IL and 7028071122020-IL are different in part number and they are NOT COMPATIBLE, they consist of the same service components.

2. DISASSEMBLY

2.1 D-MAIN ASSY

Unlike VSX-321-K(HTP-071), D-MAIN ASSY of VSX-322 is fixed by additional cable ties to BRIDGE ASSY.

Additional cable ties

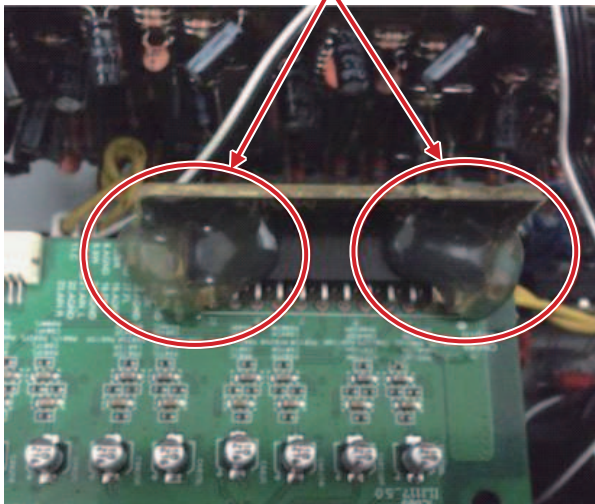


Therefore when replcing D-MAIN ASSY, cut the cable ties first, and then disconnect BRIDGE ASSY.

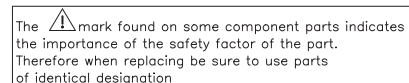
Note:

Some of D-MAIN ASSY of this model is fixed by hot melt to BRIDE ASSY and it is not removable.
Therefore if replacing that D-MAIN ASSY, order BRIDGE ASSY and replace it at the same time.
After replacing the D-MAIN ASSY and BRIDGE ASSY, fix them by cable ties like the above pictures.
(All of service parts of D-MAIN ASSY and BRIDGE ASSY have holes for fixing them by cable ties)

HOT MELT



BF CP201



VSX-322-K

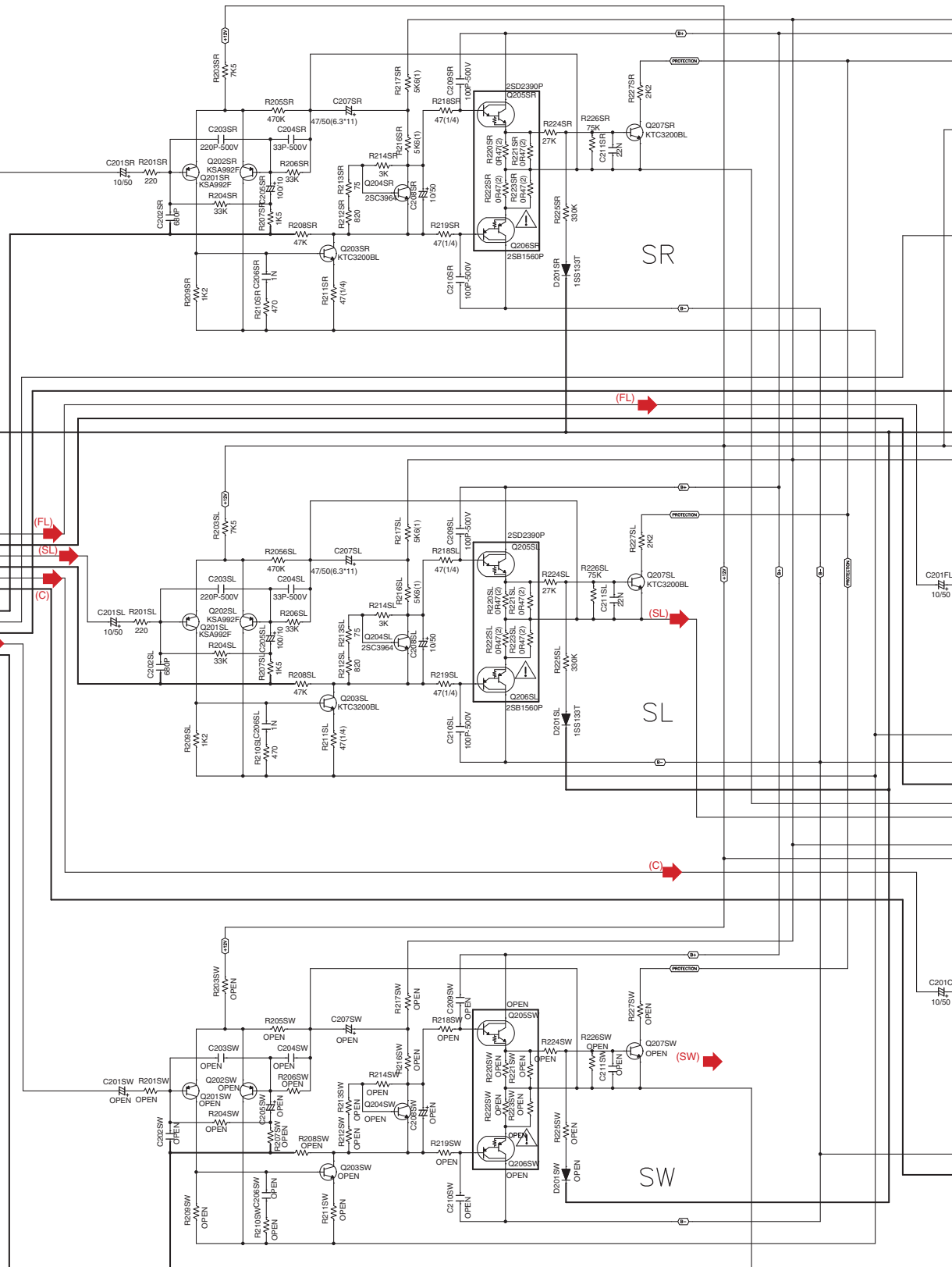
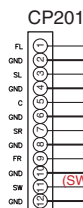
3.2 AMP ASSY

B F AMP ASSY (7028071143010-IL)

VSX322 AMP B'D

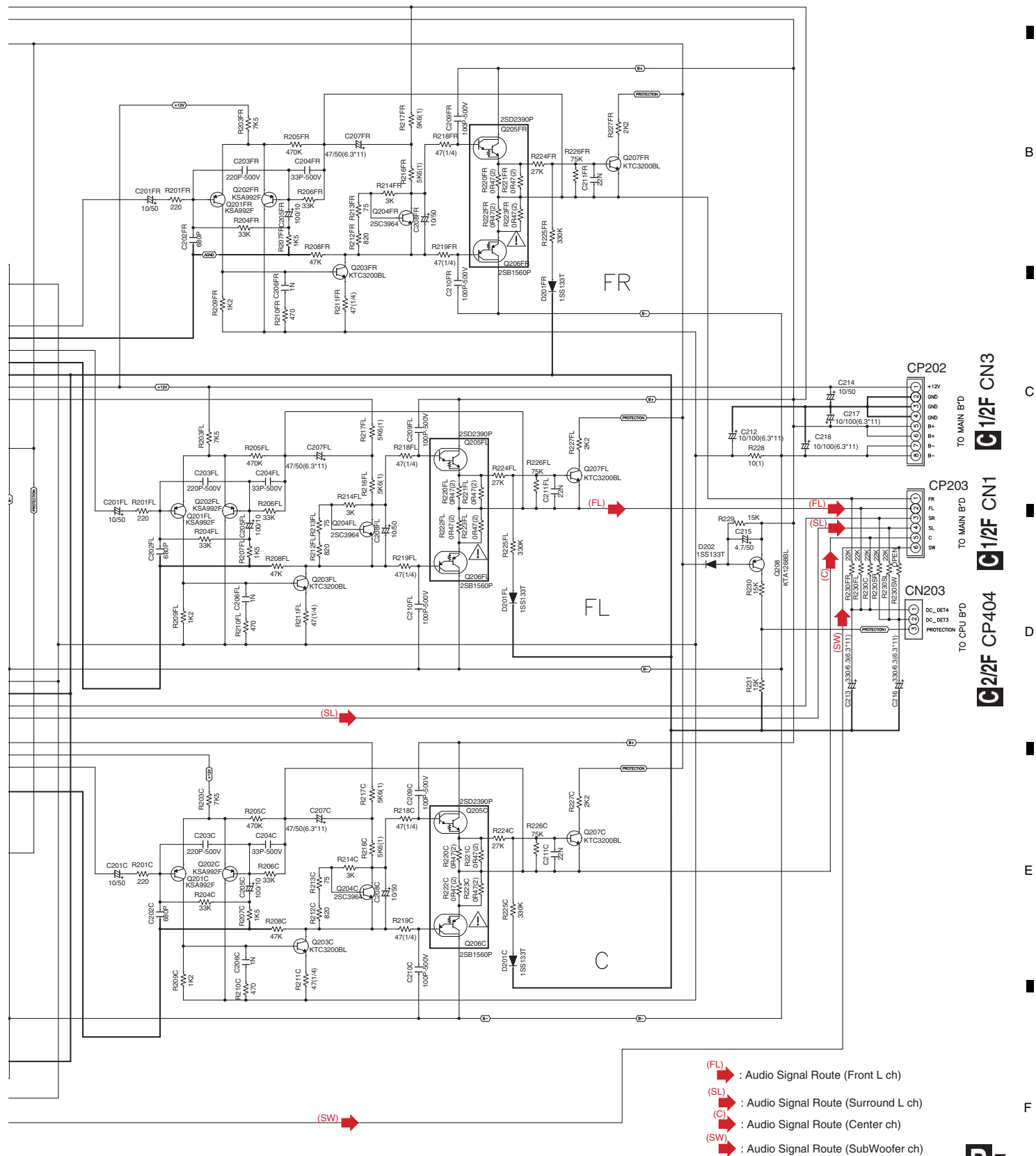
AF CN400

FROM INPUT B'D



VSX-322-K

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

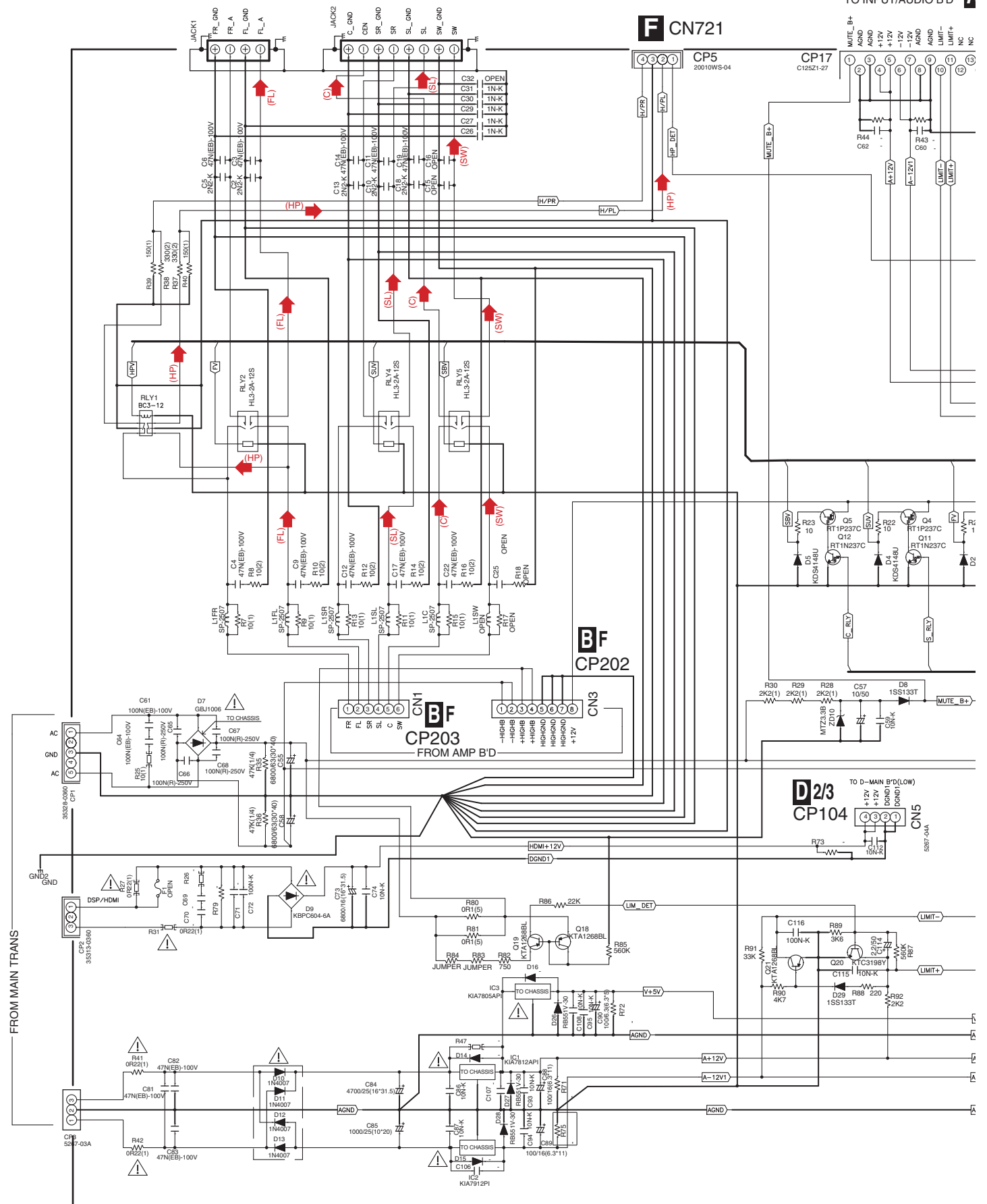


3.3 MAIN ASSY (1/2)

VSX322 MAIN B'D

SPEAKER TERMINAL

TO INPUT/AUDIO B'D

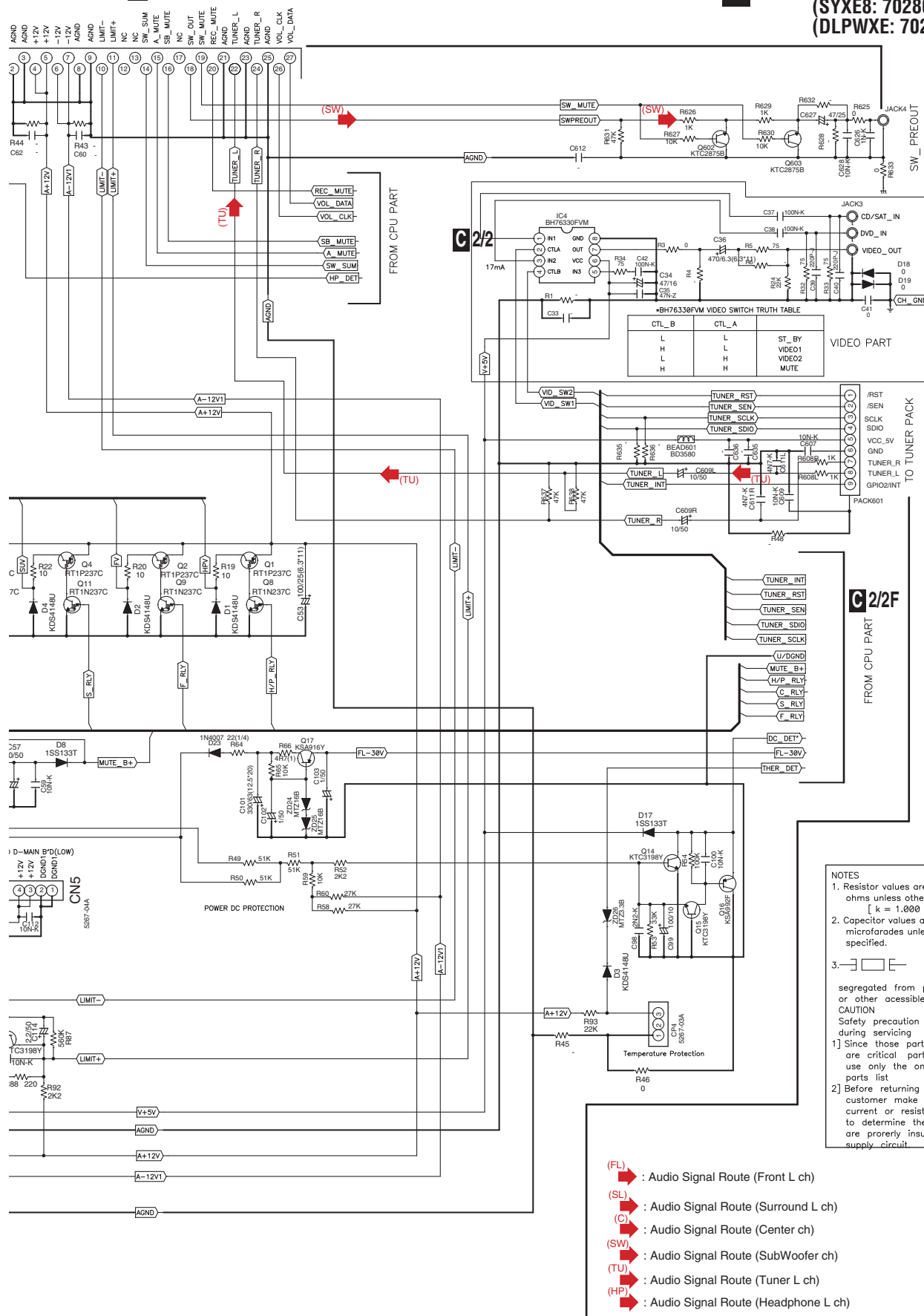


C1/2 F

VSX-322-K

) INPUT/AUDIO B'D

AF CP401

C1/2F MAIN ASSY (MAIN BLOCK)
(SYXE8: 7028071121050-IL)
(DLPWXE: 7028071121060-IL)


VSX322 CPU PART

