

Service Manual

ORDER NO.
RRV4330

DVD SURROUND SYSTEM

DCS-424K

HTZ-424DVD

HTZ-421DVD

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

Model	Type	Power Requirement	DVD Region No.	Serial No.	Remarks
DCS-424K	YXE8	AC 220 V to 240 V	2	&&TL#####YY	YY:Europe
DCS-424K	SXE5	AC 220 V to 240 V	5	&&TL#####UR	UR: Russia
HTZ-424DVD	LXE	AC 110 V to 240 V	3	&&TL#####LE	LE:Aseana
HTZ-424DVD	TWXE	AC 220 V	3	&&TL#####TL	TL:Thailanda
HTZ-424DVD	DXERB	AC 110 V to 240 V	2	&&TL#####RB	RB : Mid-East-Asia
HTZ-424DVD	AXQ5	AC 220 V	6	&&TL#####CN	CN : China
HTZ-421DVD	DXECS	AC 110 V to 240 V	4	&&TL#####ME	ME : Latin America

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

Model No.	Order No.	Remarks
HTZ-121DVD/LXE	RRV4299	DCS-222K/YXE8

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

1.1 CONTRAST TABLE

DCS-424K

DCS-222K/YXE8, DCS-424K/YXE8 and DCS-424K/SXE5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DCS-222K/YXE8	DCS-424K/YXE8	DCS-424K/SXE5	Remarks
C		PCB ASSEMBLIES				
		P43-2 1..MAIN BOARD ASSY	08-DCS222-MA0	08-H89GBU-MA1R	08-H89GCU-MA1R	
		P43-3 1..POWER BOARD ASSY	08-DCS222-PW0	08-K250HH-PW1	08-K250HH-PW1	
	P43-5	1..AMP BOARD ASSY	08-DCS222-AM0	08-T102B6-AM1	08-T102B6-AM1	
		PACKING SECTION				
	P41-2	Remote Control Unit	06-AX7652-A000	06-AX7652-A000	06-AX7653-A000	
	P41-3	Video Cable	41-UH1200-0KK1A	41-UH1200-0KK1E	41-UH1200-0KK1A	
	P41-8	Operating Instructions (En/Fr/De/It/Nl/Es)	72-DCS222-EU0B2	72-DCS424-EU0B1	Not used	
	P41-8	Operating Instructions (Ru)	Not used	Not used	72-HTZ424-RUSB1	
	P41-14	Packing Case	76-111710-0ATB1	76-113180-0ATB2	76-113180-0ATB7	
D	P41-15	SPEAKER ASSY CENTER	SMX1124- -C	SMX1126- -C	SMX1126- -C	
	P41-16	SPEAKER ASSY FRONT L	SMX1124- -F-L	SMX1126- -F-L	SMX1126- -F-L	
	P41-17	SPEAKER ASSY FRONT R	SMX1124- -F-R	SMX1126- -F-R	SMX1126- -F-R	
	P41-18	SPEAKER ASSY SURROUND	SMX1124- -S-L	SMX1126- -S-L	SMX1126- -S-L	
	P41-19	SPEAKER ASSY SURROUND	SMX1124- -S-R	SMX1126- -S-R	SMX1126- -S-R	
	P41-20	Polyethylene Bag	3880V-S004A	Not used	Not used	
	P41-21	Packing Top Bottom	3920V-0019A	Not used	Not used	
	P41-22	SPEAKER ASSY SUB-WOOFER	SMX1128- -W	SMX1129- -W	SMX1129- -W	
	P41-23	Soft Bag	MAF62208304	3880L-S028A	3880L-S028A	
	P41-24	Packing Top Bottom	3920V-0002A	3920V-0028A	3920V-0028A	
E		EXTERIOR SECTION				
	P43-7	VOL Knob ASSY	02-DC22N1-XX0B2	02-DC22N1-XX0B1	02-DC22N1-XX0B1	
	P43-8	Cable 8pin 180mm	46-CD018T-08K	46-CD020T-08K	46-CD020T-08K	
	P43-12	FFC 24pin 110mm	46-KK011C-24AU	46-KK009C-24AU	46-KK009C-24AU	
	P43-16	Front Panel ASSY	08-DCS222-001	08-DCS424-001	08-DCS424-001	
	P43-17	TJC3-4Y/ASAN-4P	46-CD004T-04B	46-CD004T-06X	46-CD004T-06X	
	P43-19	Rear Panel	67-DC22B2-0E0B1	67-DC22B6-0E0B1	67-DC22B6-0E0B2	
	P43-20	Bottom Plate	67-DC22R1-0E0	67-DC22R2-0E0	67-DC22R2-0E0	
		DC Fan	Not used	43-FM412S-211	43-FM412S-211	No. 27
		M/C Screw B3.0 x 6.0	Not used	63-B40080-BF4	63-B40080-BF4	No. 28
F		Ground Plate	Not used	67-DC22Q1-0B0	67-DC22Q1-0B0	No. 29
		Thermal Silica	Not used	59-115780-000	59-115780-000	No. 30
		S/T Screw B 2.6 x 6	63-B26060-BF4	Not used	Not used	
		SUBWOOFER SECTION				
	P44-1	Panel Front ASSY	3721V-0007V	3721V-0007A	3721V-0007A	

Mark	No.	Symbol and Description	DCS-222K/YXE8	DCS-424K/YXE8	DCS-424K/SXE5	Remarks
	P44-4	Unit Woofer(N-Shield)	6400V-0018A	6400V-0019A	6400V-0019A	

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

For PCB ASSEMBLIES, Refer to "2. SCHEMATIC DIAGRAM" and "3. PCB CONNECTION DIAGRAM".

A

HTZ-424DVD

HTZ-121DVD/LXE, HTZ-424DVD/LXE, HTZ-424DVD/TWXE, HTZ-424DVD/DXERB and HTZ-424DVD/AXQ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	HTZ-121DVD /LXE	HTZ-424DVD /LXE	HTZ-424DVD /TWXE	HTZ-424DVD /DXERB	HTZ-424DVD /AXQ5	Remarks
		PCB ASSEMBLIES						
	P43-2	1..MAIN BOARD ASSY	08-HTZ121-MA0	08-HTZ121-MA0	08-H89GAU-MA1R	08-H89GAU-MA1R	08-H89GAU-MA1R	
⚠	P43-3	1..POWER BOARD ASSY	08-DCS222-PW0	08-HTZ424-PW0	08-K250HH-PW1	08-K250HH-PW1	08-K250HH-PW1	
	P43-5	1..AMP BOARD ASSY	08-DCS222-AM0	08-HTZ424-AM0	08-T102B6-AM1	08-T102B6-AM1	08-T102B6-AM1	
		PACKING SECTION						
⚠	P41-1	AC Power Cord	51-DC0120-0CRA3	51-DC0120-0CRA3	51-D50120-0CR03	51-DC0120-0CRA3	51-GC0120-0CRA5	
	P41-8	Operating Instructions (En/Zhtw)	72-HTZ121-AS0B2	72-HTZ222-AS0B1	Not used	Not used	Not used	
	P41-8	Operating Instructions (Th)	Not used	Not used	72-HTZ222-THAB1	Not used	Not used	
	P41-8	Operating Instructions (En/Ar)	Not used	Not used	Not used	72-HTZ222-MEAB1	Not used	
	P41-8	Operating Instructions (Zhcn)	Not used	Not used	Not used	Not used	72-HTZ222-CHNB1	
	P41-14	Packing Case	76-111710-0ATB2	76-113180-0ATB7	76-113180-0ATB4	76-113180-0ATB5	76-113180-0ATB3	
	P41-15	SPEAKER ASSY CENTER	SMX1124- -C	SMX1126- -C	SMX1126- -C	SMX1126- -C	SMX1133- -C	
	P41-16	SPEAKER ASSY FRONT L	SMX1124- -F-L	SMX1126- -F-L	SMX1126- -F-L	SMX1126- -F-L	SMX1133- -F-L	
	P41-17	SPEAKER ASSY FRONT R	SMX1124- -F-R	SMX1126- -F-R	SMX1126- -F-R	SMX1126- -F-R	SMX1133- -F-R	
	P41-18	SPEAKER ASSY SURROUND	SMX1124- -S-L	SMX1126- -S-L	SMX1126- -S-L	SMX1126- -S-L	SMX1133- -S-L	
	P41-19	SPEAKER ASSY SURROUND	SMX1124- -S-R	SMX1126- -S-R	SMX1126- -S-R	SMX1126- -S-R	SMX1133- -S-R	
	P41-20	Polyethylene Bag	3880V-S004A	Not used	Not used	Not used	Not used	
	P41-21	Packing Top Bottom	3920V-0019A	Not used	Not used	Not used	Not used	
	P41-22	SPEAKER ASSY SUB-WOOFER	SMX1128- -W	SMX1129- -W	SMX1129- -W	SMX1129- -W	SMX1135- -W	
	P41-23	Soft Bag	MAF62208304	3880L-S028A	3880L-S028A	3880L-S028A	3880L-S028A	
	P41-24	Packing Top Bottom	3920V-0002A	3920V-0028A	3920V-0028A	3920V-0028A	3920V-0028A	
		EXTERIOR SECTION						
	P43-7	VOL Knob ASSY	02-DC22N1-XX0B2	02-DC22N1-XX0B1	02-DC22N1-XX0B1	02-DC22N1-XX0B1	02-DC22N1-XX0B1	
	P43-8	Cable 8pin 180mm	46-CD018T-08K	46-CD020T-08K	46-CD020T-08K	46-CD020T-08K	46-CD020T-08K	
	P43-12	FFC 24pin 110mm	46-KK011C-24AU	46-KK009C-24AU	46-KK009C-24AU	46-KK009C-24AU	46-KK009C-24AU	
	P43-16	Front Panel ASSY	08-HTZ121-001	08-HTZ424-001	08-HTZ424-001	08-HTZ424-001	08-HTZ424-001	
	P43-17	TJC3-4Y/ASAN-4P	46-CD004T-04B	46-CD004T-06X	46-CD004T-06X	46-CD004T-06X	46-CD004T-06X	
	P43-19	Rear Panel	67-DC22B1-0E0B1	67-DC22B5-0E0B1	67-DC22B5-0E0B1	67-DC22B5-0E0B1	67-DC22B5-0E0B7	
	P43-20	Bottom Plate	67-DC22R1-0E0	67-DC22R2-0E0	67-DC22R2-0E0	67-DC22R2-0E0	67-DC22R2-0E0	
		DC Fan	Not used	43-FM412S-211	43-FM412S-211	43-FM412S-211	43-FM412S-211	No. 27
		M/C Screw B3.0 X 6.0	Not used	63-B40080-BF4	63-B40080-BF4	63-B40080-BF4	63-B40080-BF4	No. 28
		Ground Plate	Not used	67-DC22Q1-0B0	67-DC22Q1-0B0	67-DC22Q1-0B0	67-DC22Q1-0B0	No. 29
		Thermal Silica	Not used	59-115780-000	59-115780-000	59-115780-000	59-115780-000	No. 30
		S/T Screw B 2.6 X 6	63-B26060-BF4	Not used	Not used	Not used	Not used	
		SUBWOOFER SECTION						
	P44-1	Panel Front ASSY	3721V-0007V	3721V-0007A	3721V-0007A	3721V-0007A	None	
	P44-4	Unit Woofer(N-Shield)	6400V-0018A	6400V-0019A	6400V-0019A	6400V-0019A	6400V-0019A	

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

For PCB ASSEMBLIES, Refer to "2. SCHEMATIC DIAGRAM" and "3. PCB CONNECTION DIAGRAM".

HTZ-421DVD/DXECS

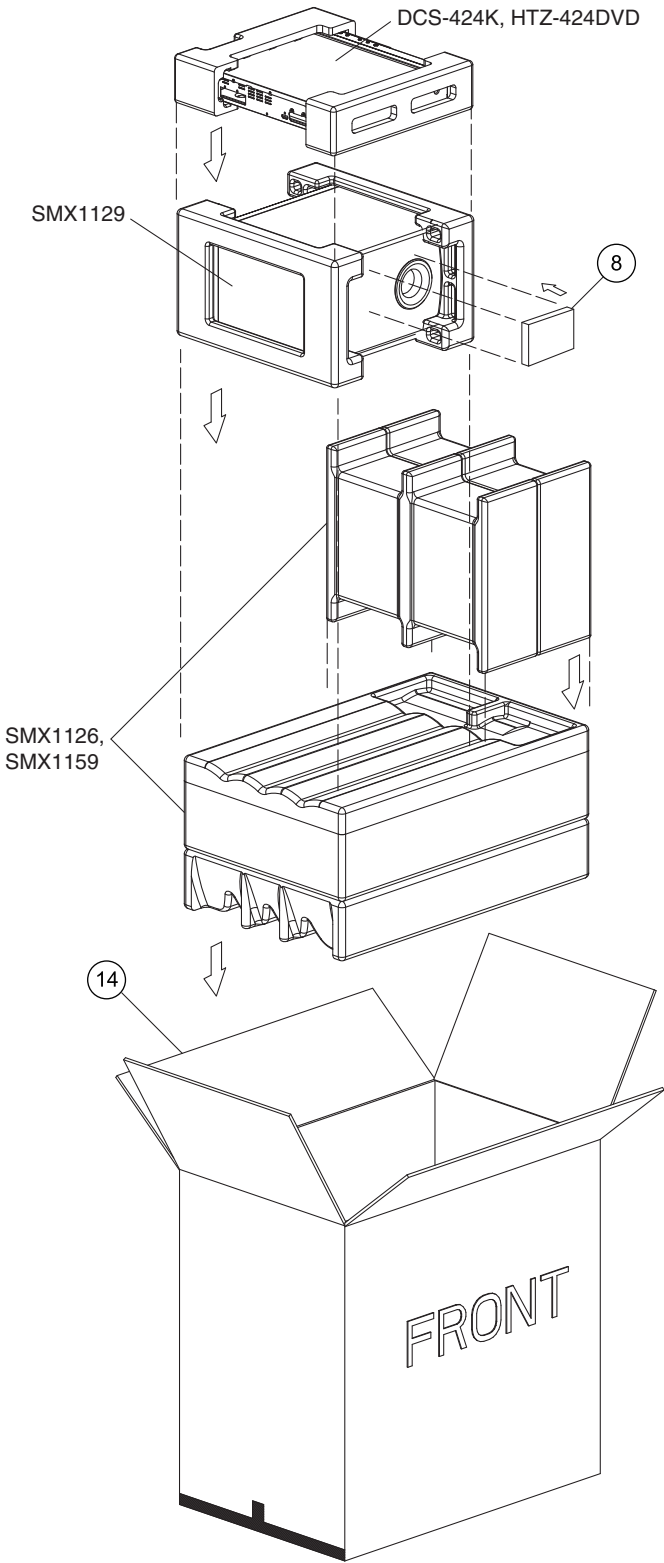
HTZ-121DVD/LXE and HTZ-421DVD/DXECS are constructed the same except for the following:

Mark	No.	Symbol and Description	HTZ-121DVD/LXE	HTZ-421DVD/DXECS	Remarks
A		PCB ASSEMBLIES			
	P43-2	1..MAIN BOARD ASSY	08-HTZ121-MA0	08-H89GAU-MA1R	
	 P43-3	1..POWER BOARD ASSY	08-DCS222-PW0	08-K250HH-PW1	
	P43-5	1..AMP BOARD ASSY	08-DCS222-AM0	08-T102B6-AM1	
		PACKING SECTION			
	P41-8	Operating Instructions (En/Zhtw)	72-HTZ121-AS0B2	Not used	
	P41-8	Operating Instructions (En/Es)	Not used	72-HTZ221-LAMB1	
	P41-14	Packing Case	76-111710-0ATB2	76-111710-0ATB7	
	P41-22	SPEAKER ASSY SUB-WOOFER	SMX1128- -W	SMX1129- -W	
	P41-23	Soft Bag	MAF62208304	3880L-S028A	
B	P41-24	Packing Top Bottom	3920V-0002A	3920V-0028A	
		EXTERIOR SECTION			
	P43-7	VOL Knob ASSY	02-DC22N1-XX0B2	02-DC22N1-XX0B1	
	P43-8	Cable 8pin 180mm	46-CD018T-08K	46-CD020T-08K	
	P43-12	FFC 24pin 110mm	46-KK011C-24AU	46-KK009C-24AU	
	P43-16	Front Panel ASSY	08-HTZ121-001	08-HTZ424-002	
	P43-17	TJC3-4Y/ASAN-4P	46-CD004T-04B	46-CD004T-06X	
	P43-19	Rear Panel	67-DC22B1-0E0B1	67-DC22B5-0E0B4	
	P43-20	Bottom Plate	67-DC22R1-0E0	67-DC22R2-0E0	
		DC Fan	Not used	43-FM412S-211	No. 27
C		M/C Screw B3.0 x.0	Not used	63-B40080-BF4	No. 28
		Ground Plate	Not used	67-DC22Q1-0B0	No. 29
		Thermal Silica	Not used	59-115780-000	No. 30
		S/T Screw B 2.6 x 6	63-B26060-BF4	Not used	
		SUBWOOFER SECTION			
	P44-1	Panel Front ASSY	3721V-0007V	3721V-0007A	
	P44-4	Unit Woofer(N-Shield)	6400V-0018A	6400V-0019A	

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

For PCB ASSEMBLIES, Refer to "2. SCHEMATIC DIAGRAM" and "3. PCB CONNECTION DIAGRAM".

EXPLODED VIEWS
PACKING SECTION (DCS-424K, HTZ-424DVD)



A

B

C

D

E

F

A

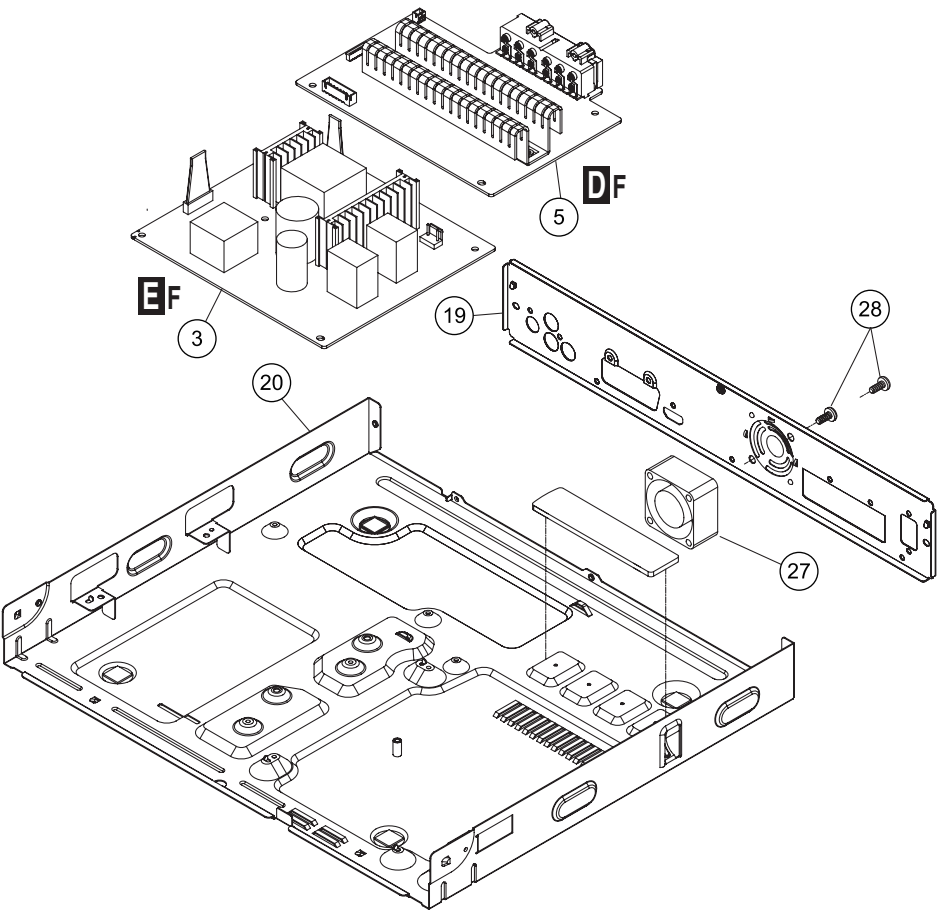
B

C

D

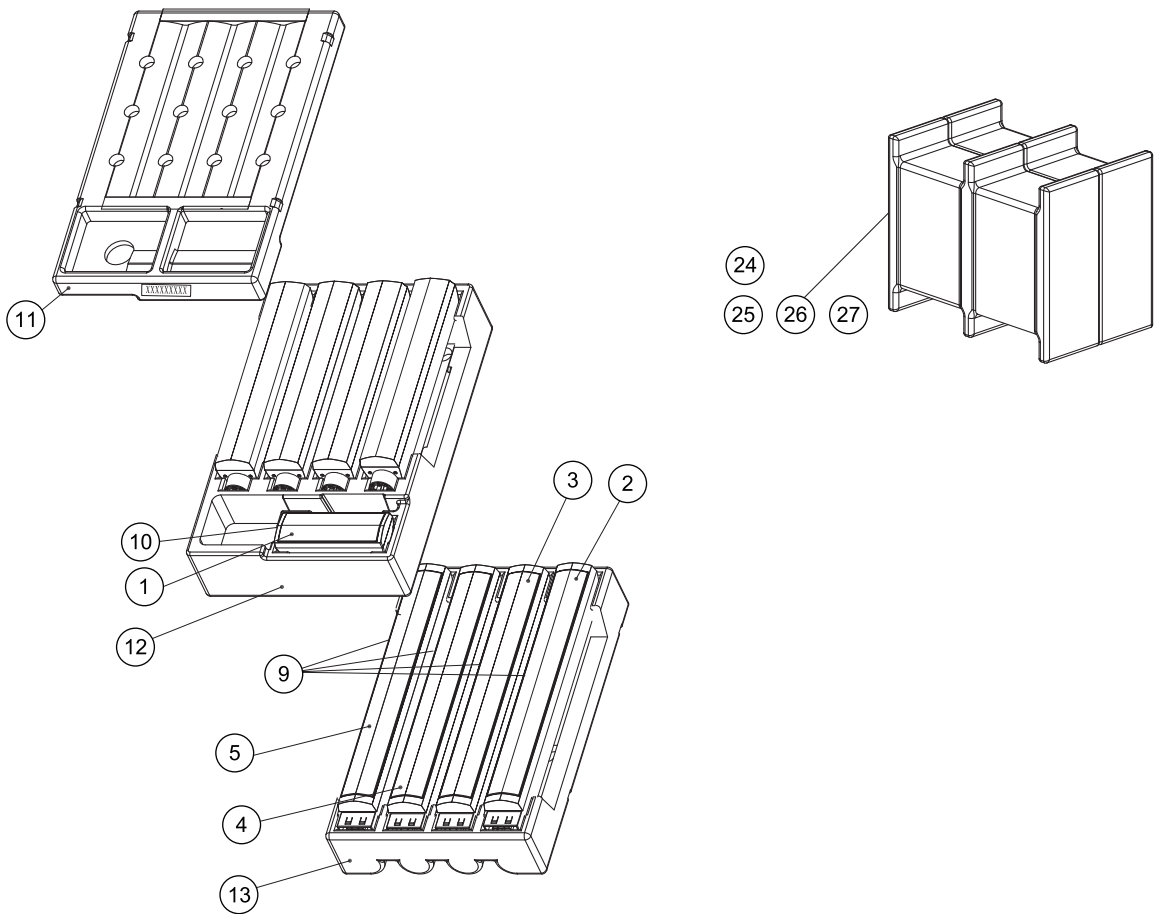
E

F

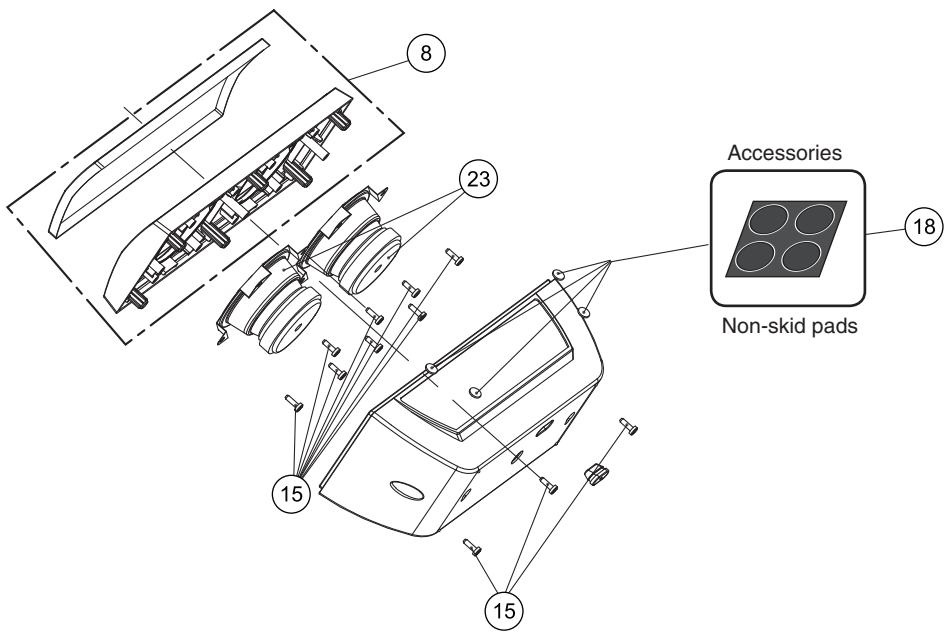


1.2 SATELLITE SPEAKER (DCS-424K, HTZ-424DVD)
SATELLITE SPEAKER SECTION

PACKING



CENTER SPEAKER

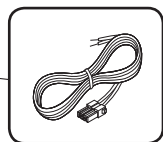


FRONT SPEAKER

Accessories

28

29



Colour-coded
Speaker cables (4)

Accessories

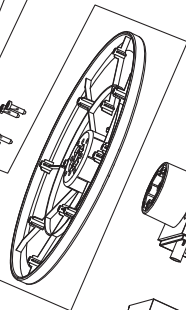
14



Screws M4 x 16 (16)
(They are used to fix to the
base and lower cabinet.)

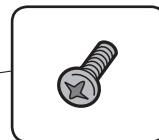
15

24



Accessories

16



Screws M4 x 12 (8)
(They are used to fix the
upper and lower cabinet.)

19

15

15

15

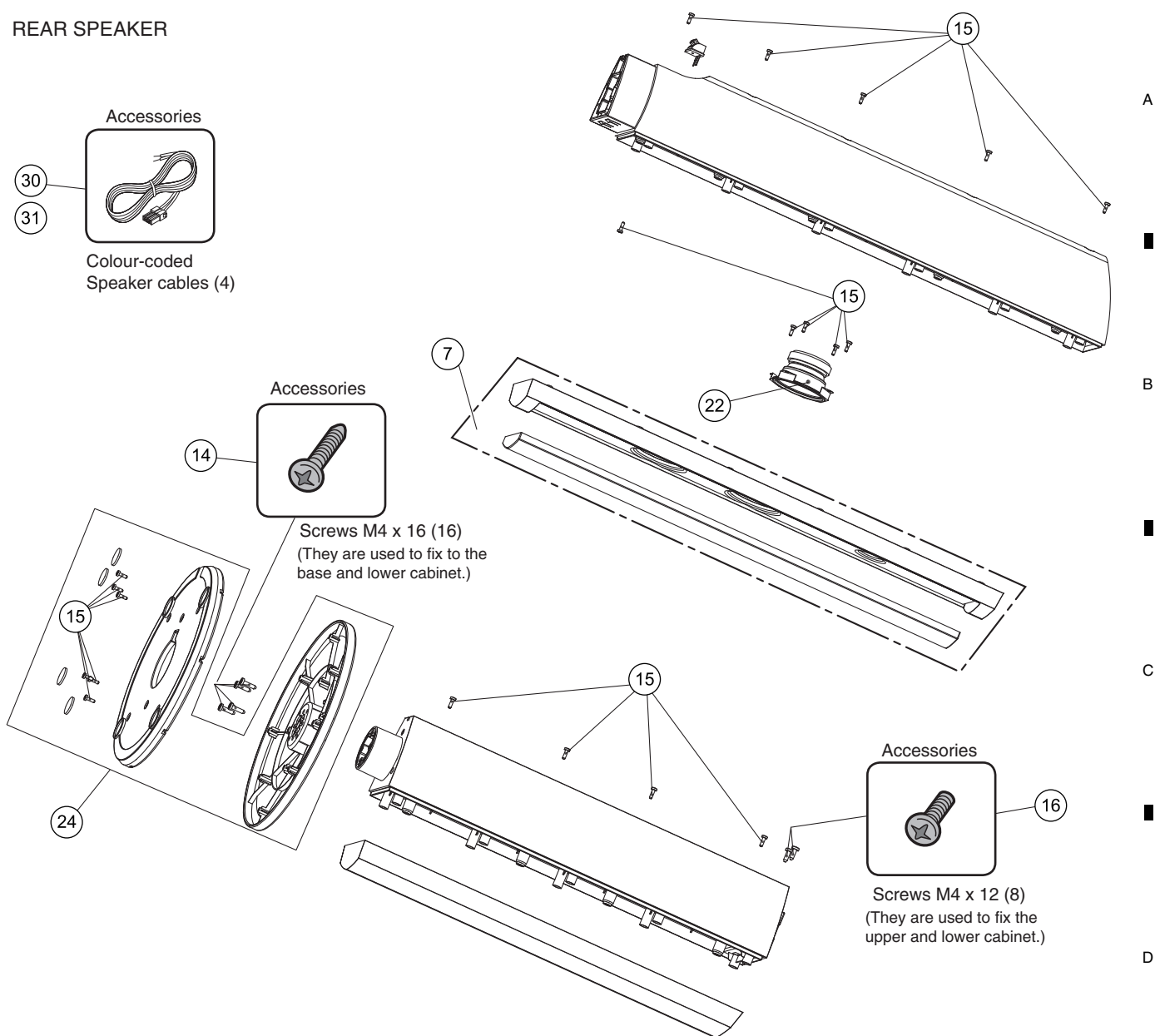
21

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6

15

REAR SPEAKER



SATELLITE SPEAKER SECTION PARTS LIST

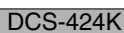
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	SPEAKER ASSY CENTER	SMX1126- -C	17		
2	SPEAKER ASSY FRONT L	SMX1126- -F-L	18	Cushion Foot	4850E-0036B
3	SPEAKER ASSY FRONT R	SMX1126- -F-R	19	Network Assy	5121V-0001A
4	SPEAKER ASSY SURROUND	SMX1126- -S-L	20	Tweeter	6400V-T003A
5	SPEAKER ASSY SURROUND	SMX1126- -S-R			
6	Panel Front Assy (Except AXQ5)	3721V-0005A	21	Unit Woofer	6400V-0014A
7	Panel Front Assy (Except AXQ5)	3721V-0005B	22	Unit Woofer	6400V-0015A
8	Panel Front Assy (Except AXQ5)	3721V-0006A	23	Unit Woofer	6400V-0016A
9	Bag Poly	3880V-S005A	24	Base Stand Assy	SMX1159-B_EXPORT
10	Bag Poly	3880V-S008A	25	Bag Poly	3880V-S007A
11	Packing Top	3920V-0024A	26	Packing Base Left	3920V-0027A
12	Packing Middle	3920V-0025A	27	Packing Base Right	3920V-0027B
13	Packing Bottom	3920V-0026A	28	Wire SPK Assy (White)	5101V-0002A
14	Screw Bind Head	4000V-T004C	29	Wire SPK Assy (Red)	5101V-0002B
15	Screw	4000V-0001U	30	Wire SPK Assy (Blue)	5101V-0002C
16	Screw Bind Head	4000V-0002J	31	Wire SPK Assy (Gray)	5101V-0002D

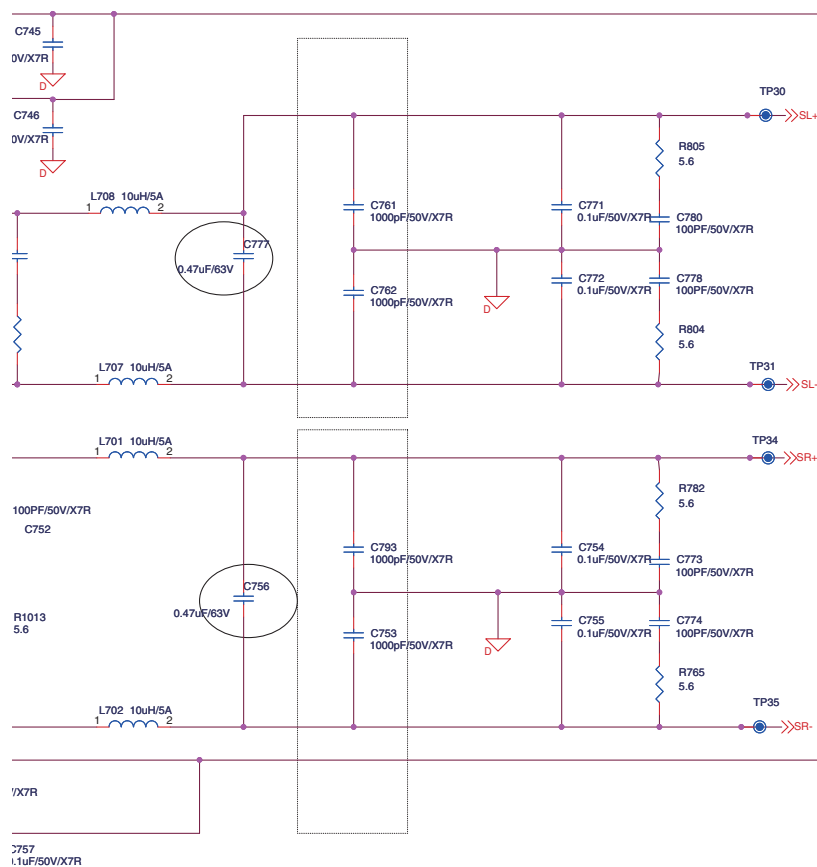
DCS-424K

F



D_{2/3F}

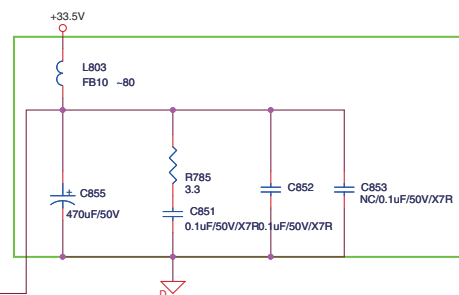
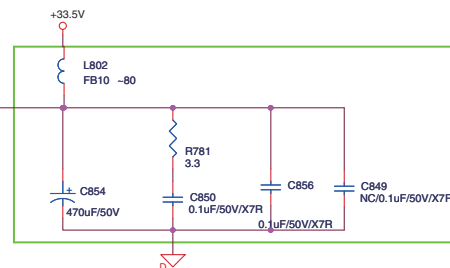
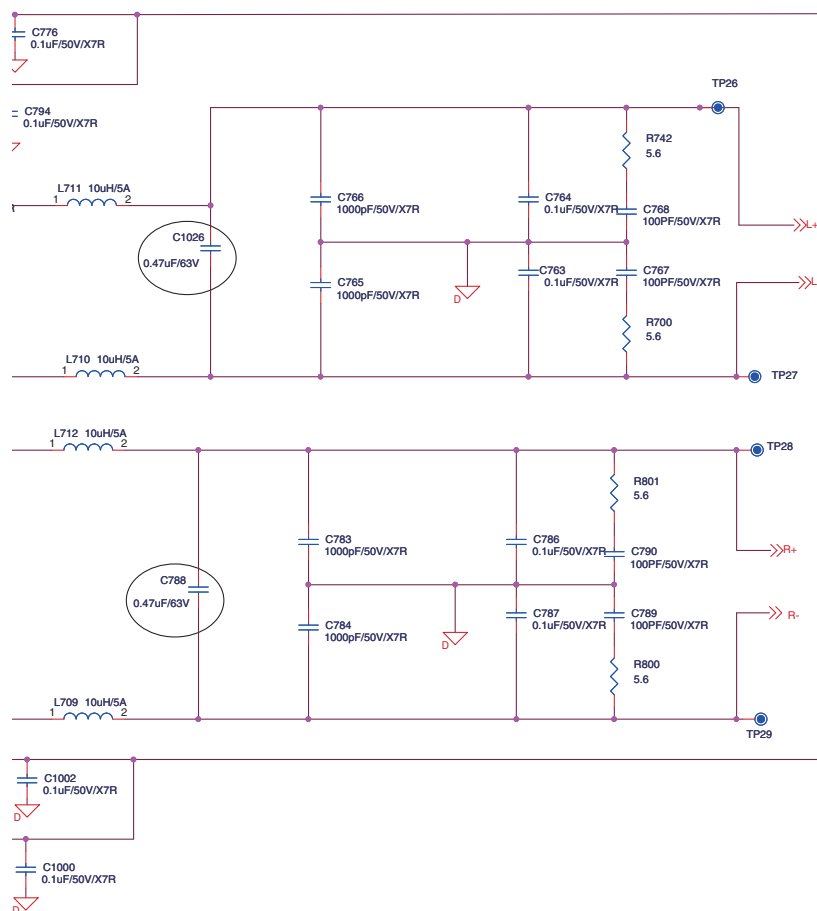
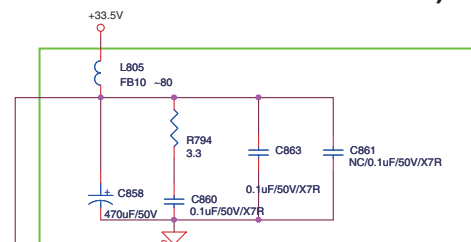
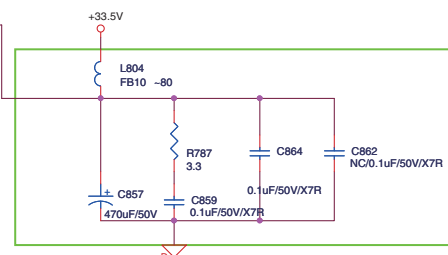




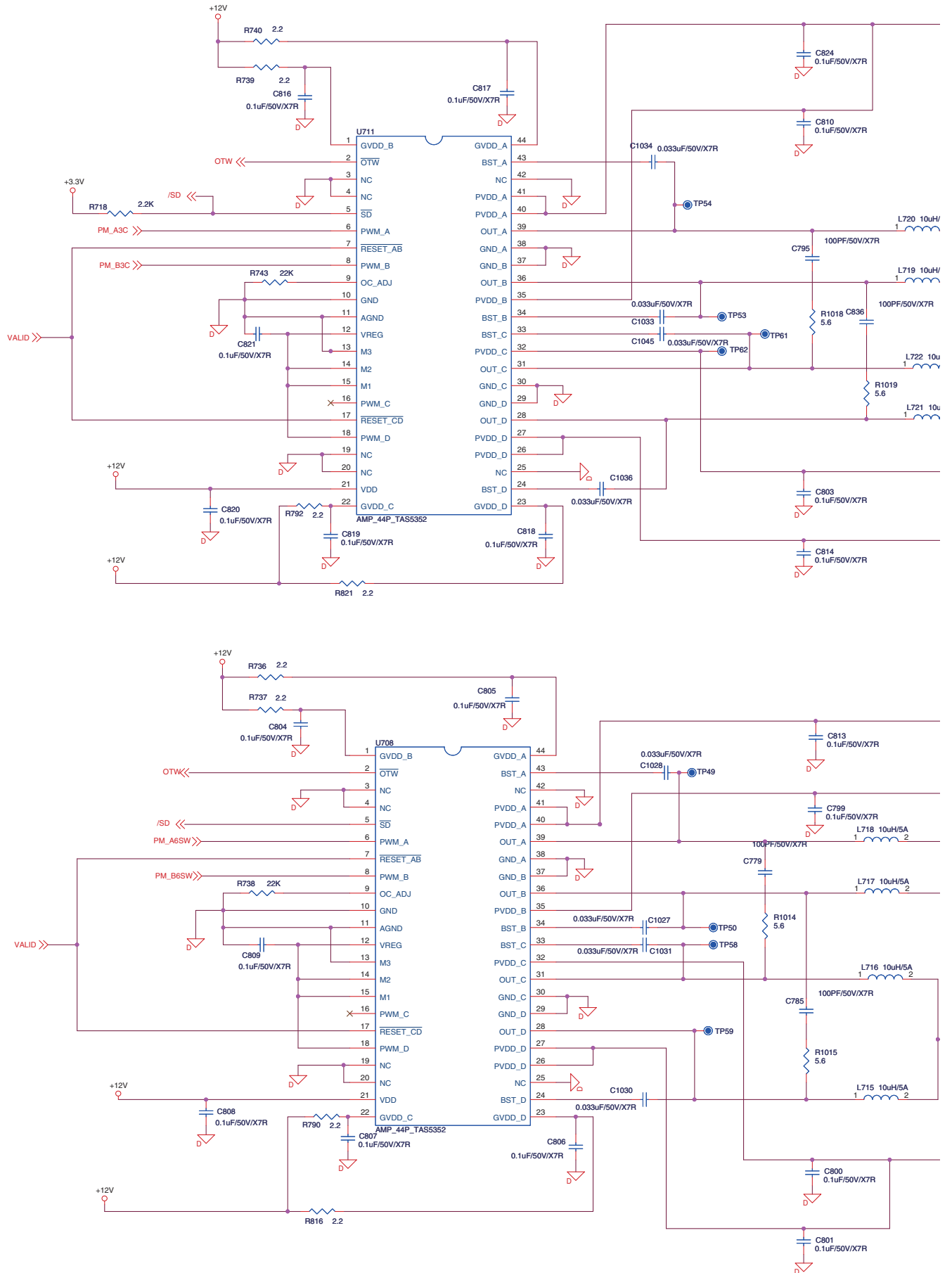
D2/3F

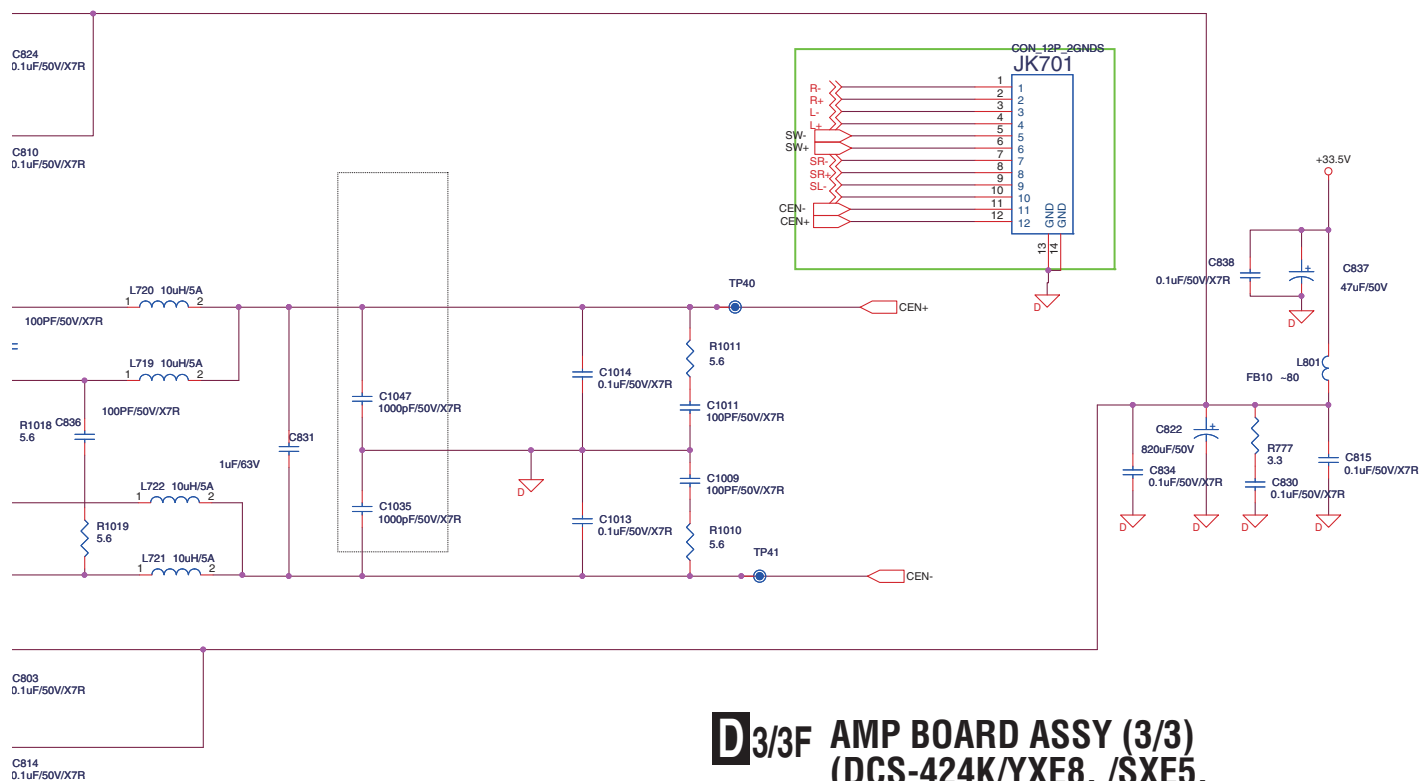
AMP BOARD ASSY (2/3)

(DCS-424K/YXE8, /SXE5,
HTZ-424DVD/TWXE, /DXERB, /AXQ5
HTZ-421DVD/DXECS : 08-T102B6-AM1)
(HTZ-424DVD/LXE : 08-HTZ424-AM0)

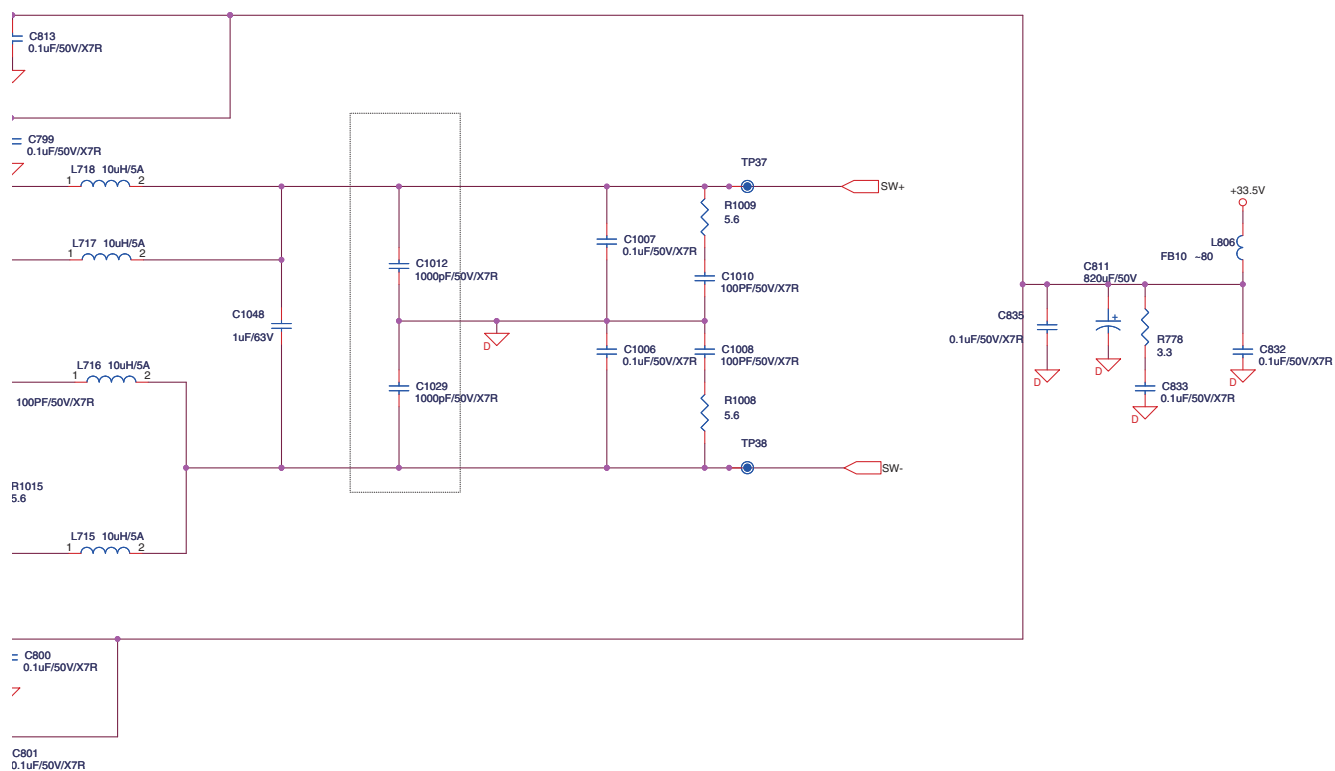


2.3 AMP BOARD ASSY (3/3)

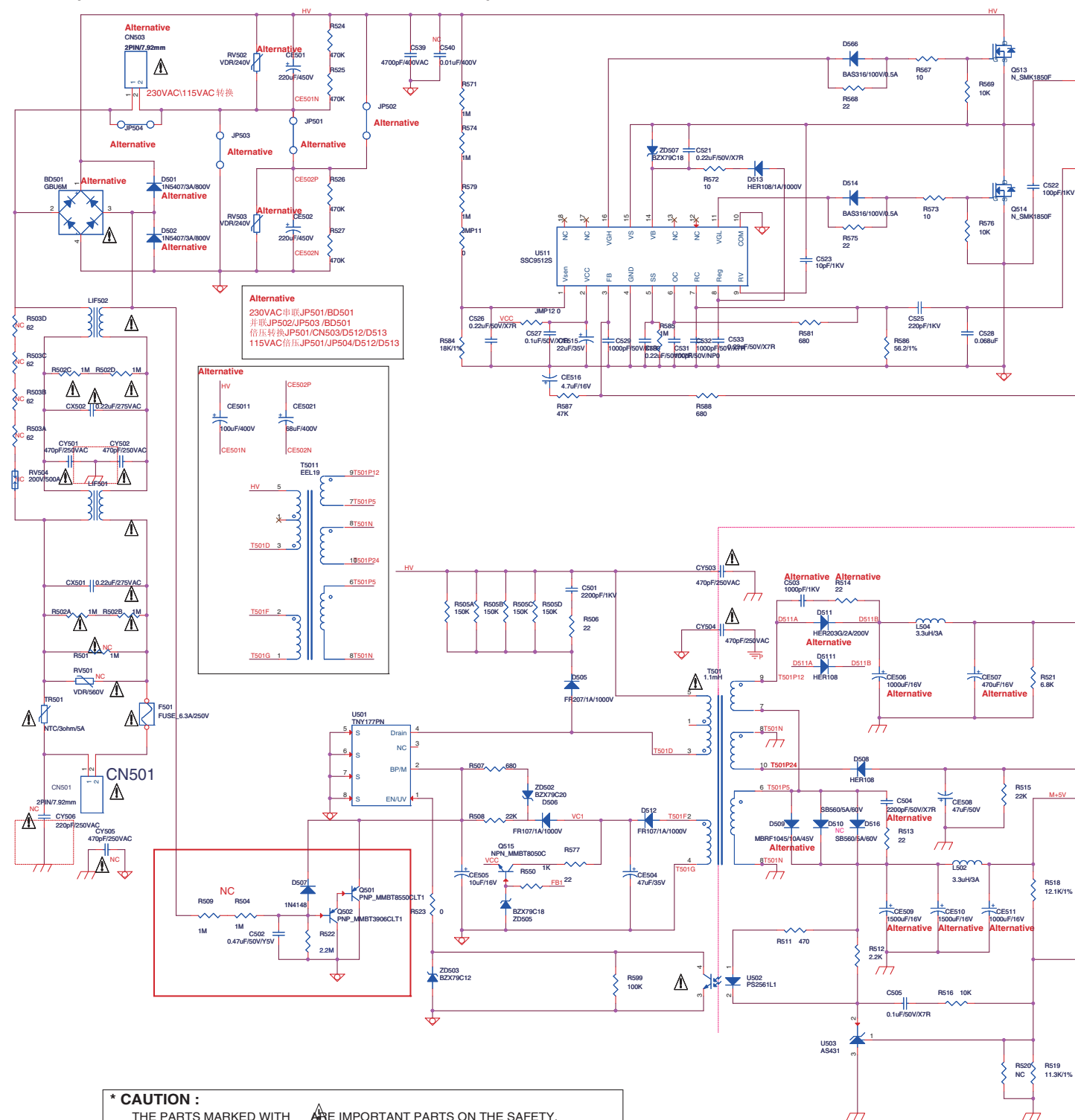




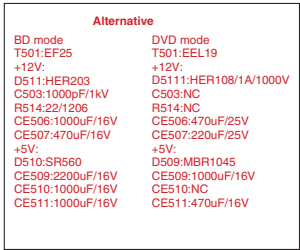
D3/3F AMP BOARD ASSY (3/3) **(DCS-424K/YXE8, /SXE5,** **HTZ-424DVD/TWXE, /DXERB, /AXQ5** **HTZ-421DVD/DXECS : 08-T102B6-AM1)** **(HTZ-424DVD/LXE : 08-HTZ424-AM0)**



EF POWER BOARD ASSY
(DCS-424K/YXE8, /SXE5,
HTZ-424DVD/TWXE, /DXERB, /AXQ5,
HTZ-421DVD/DXEC5 : 08-K250HH-PW1)
(HTZ-424DVD/LXE : 08-HTZ424-PW0)



* **CAUTION :**
THE PARTS MARKED WITH  ARE IMPORTANT PARTS ON THE SAFETY.
PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBER WITHOUT FAIL.

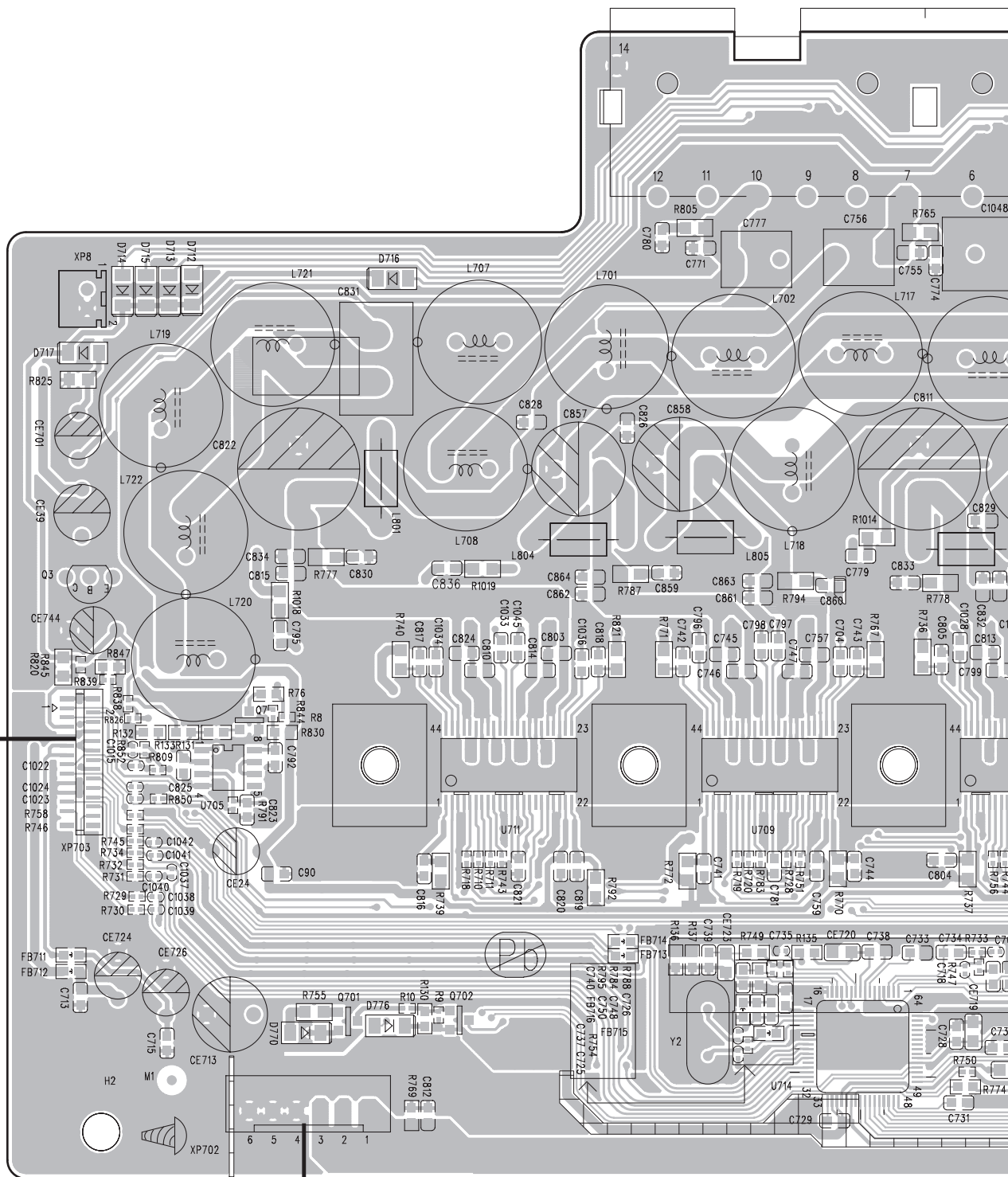


3. PCB CONNECTION DIAGRAM

3.1 AMP BOARD ASSY

SIDE A

DF AMP BOARD ASSY



XP702

DF CON502

DCS-424K

DF

SIDE A

A

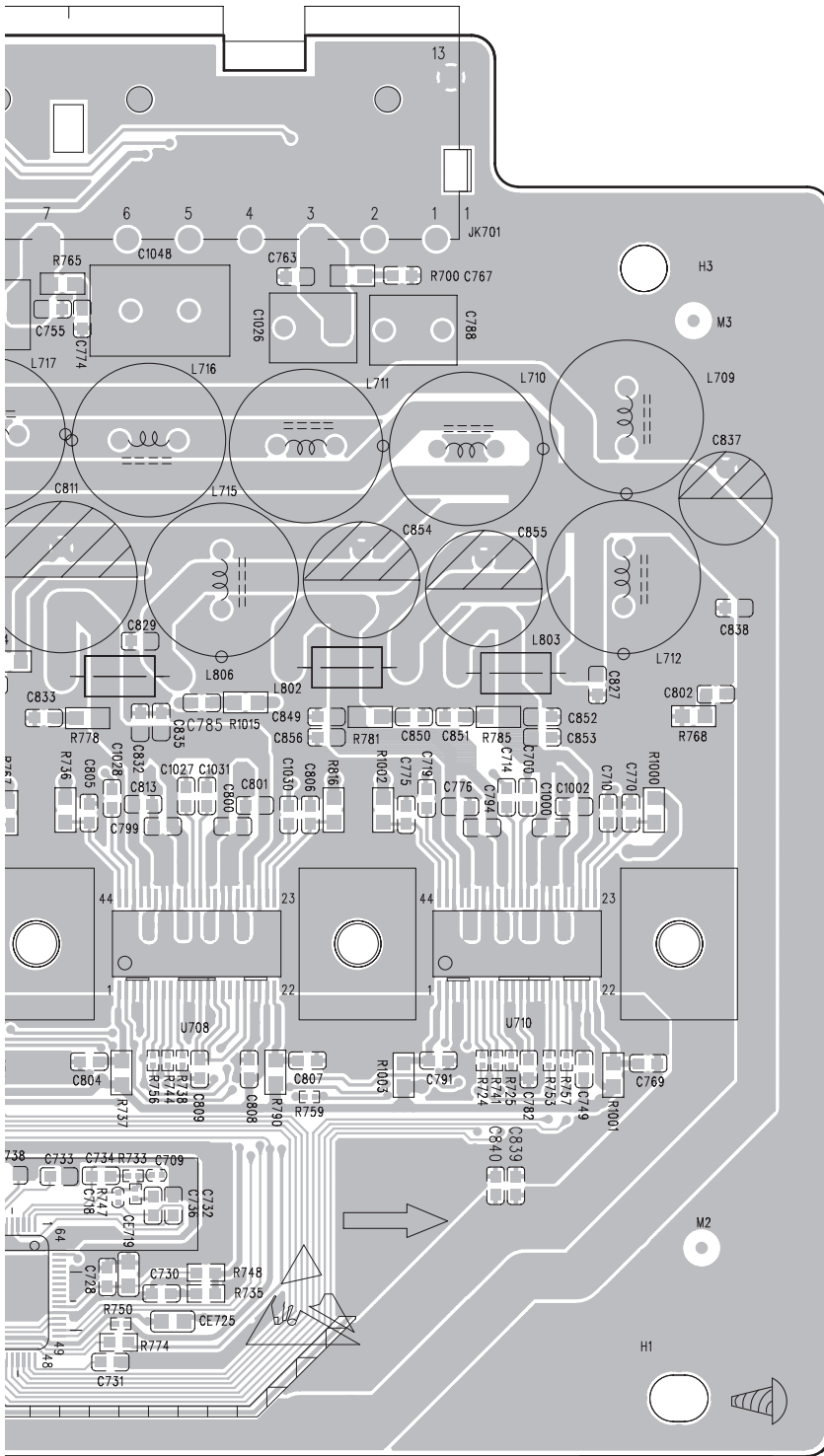
B

C

D

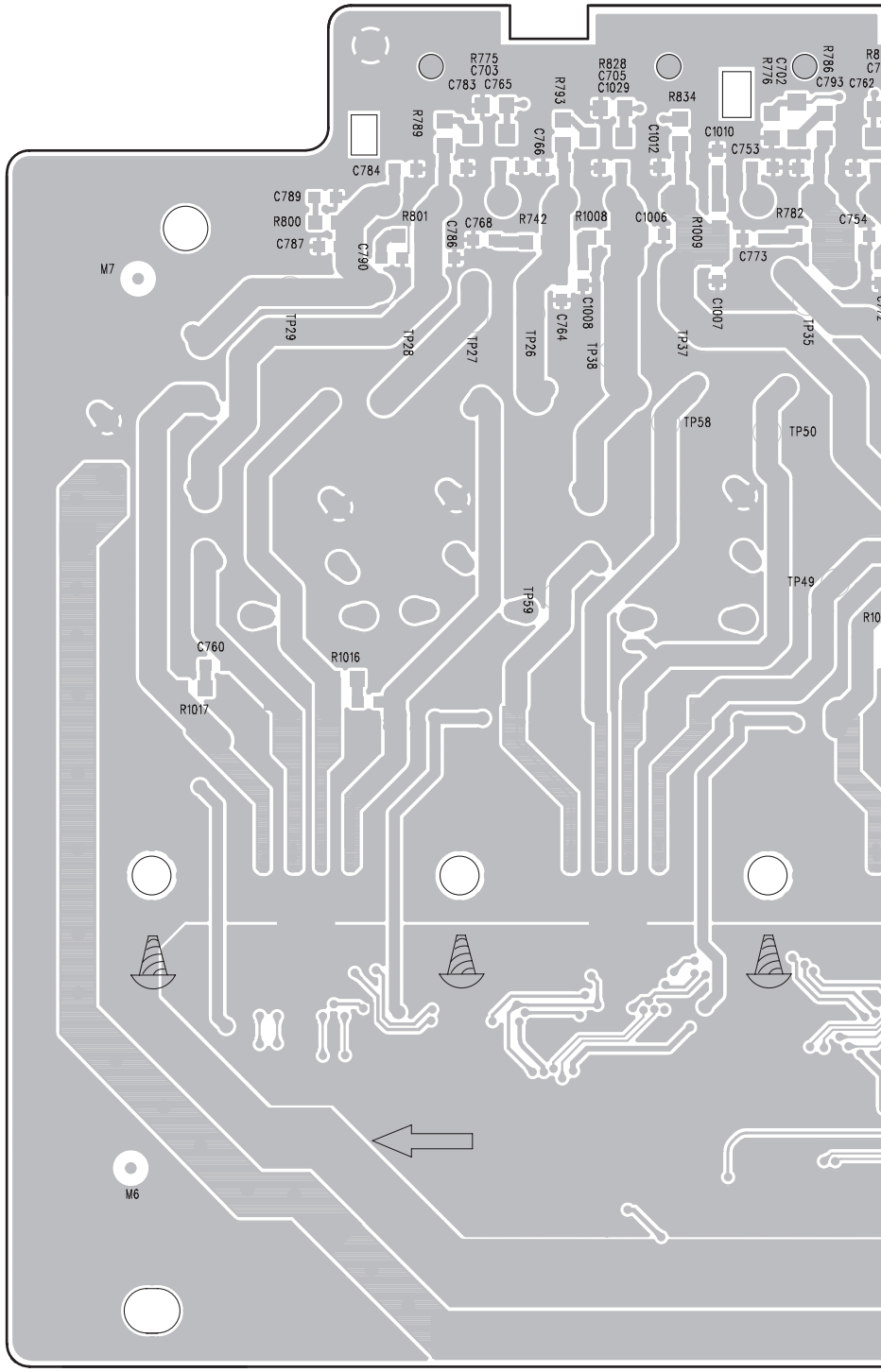
E

F



SIDE B

DF AMP BOARD ASSY



SIDE B

A

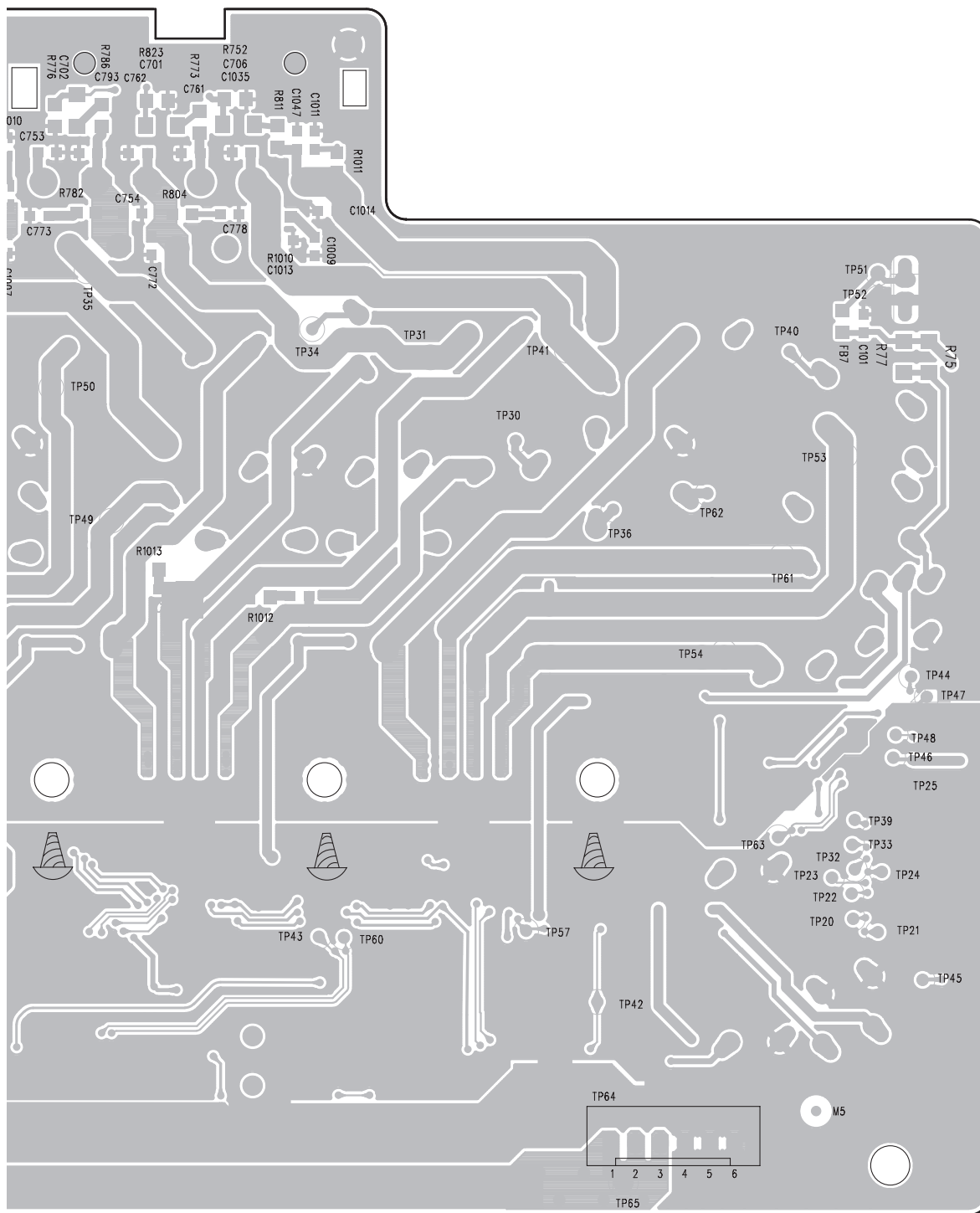
B

C

D

E

F



XP702

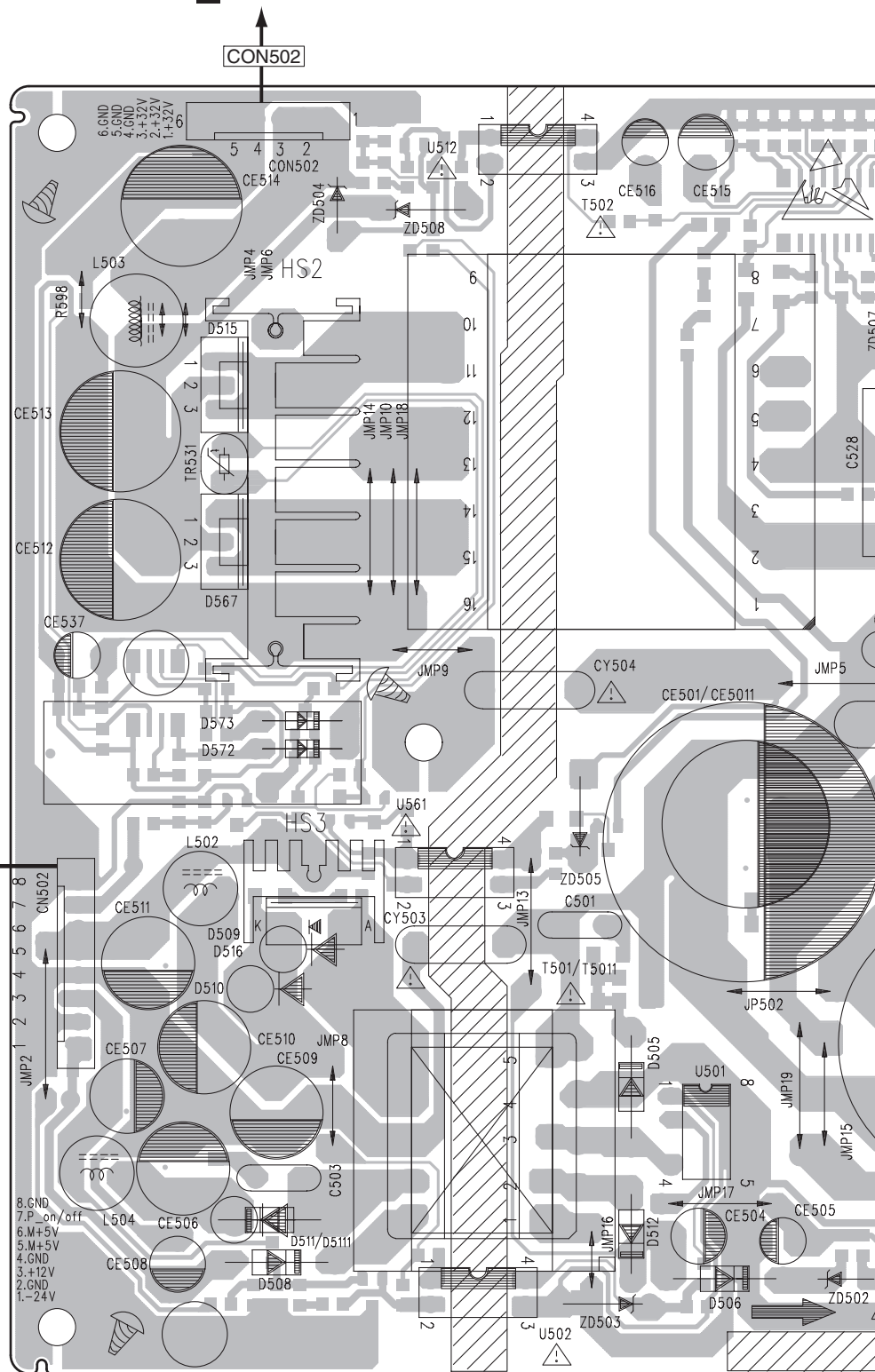
3.2 POWER BOARD ASSY

SIDE A

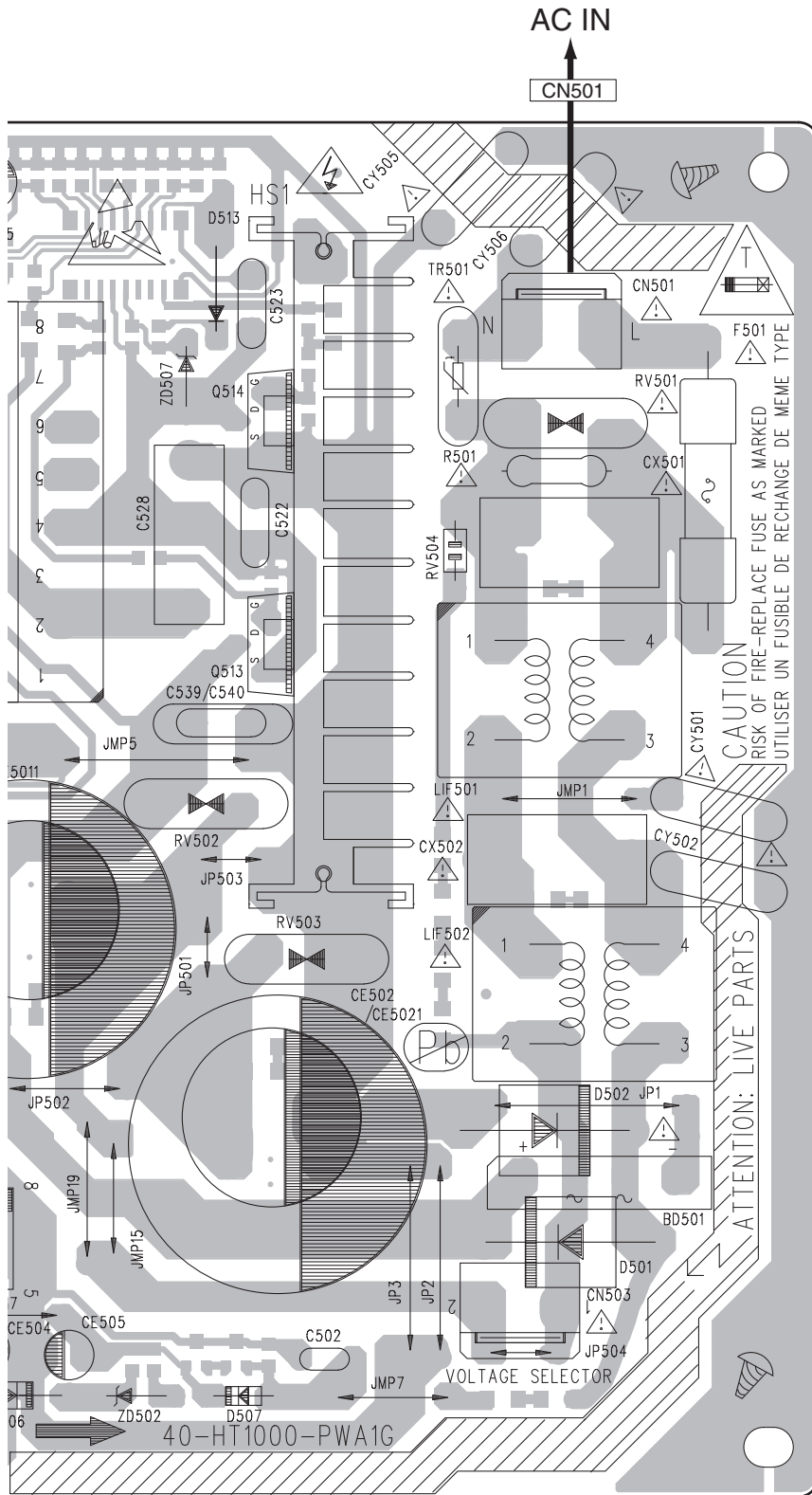
EF POWER BOARD ASSY

EF XP702

A XP1



DCS-424K



SIDE B

A

B

C

D

E

F

