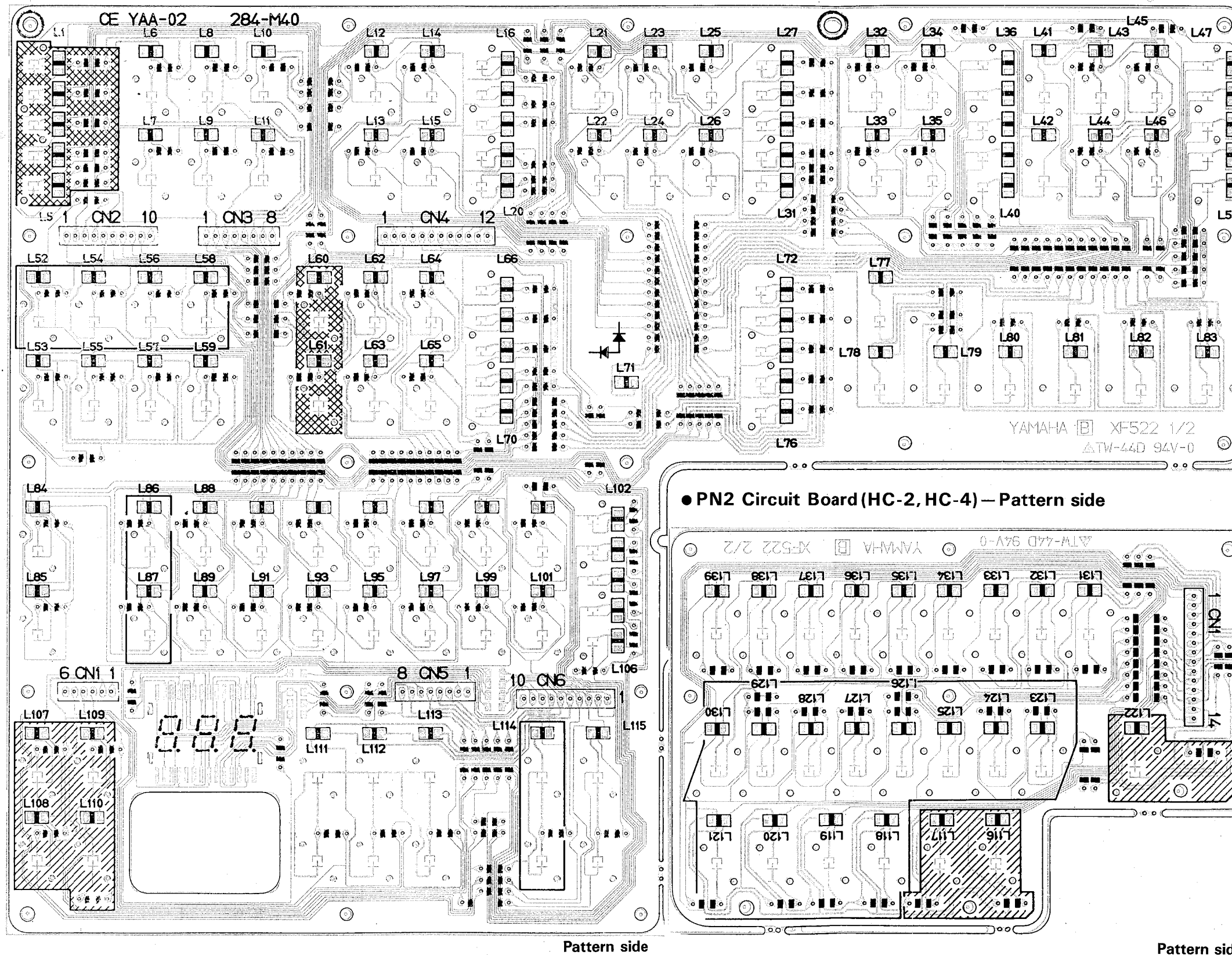
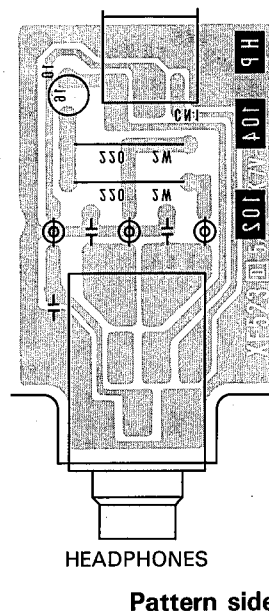


● PN1 Circuit Board (HC-2, HC-4) – Pattern side



● HP Circuit Board (HC-2,HC-4)



Pattern side

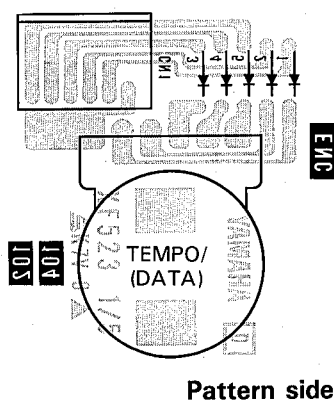
Notes)

- *Circuit Board: HP (VH299000) XF523D0


- | MVR | | CN1 | |
|---------|----------|------------|-------------|
| Pin No. | Pin Name | Wire Color | Destination |
| 1 | MI | | DM-CN19-1 |
| 2 | + 15 | | DM-CN19-2 |
| 3 | E | | DM-CN19-3 |
| 4 | - 15 | | DM-CN19-4 |
| 5 | MO | | DM-CN19-5 |
| 6 | E | | DM-CN19-6 |

HP		CN1	
Pin No.	Pin Name	Wire Color	Destination
1	HI	YE	PU-CN6-3
2	E	WH	PU-CN6-4
3	E	GR	NW-E
4	NW	BR	NW-L

Notes)

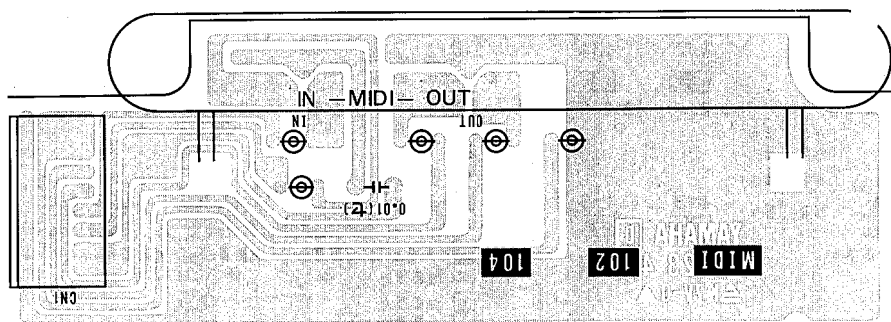


*Circuit Board:

- | | |
|--|-------------------------------|
| 1. Diode | ENC (VH298600) XP52SDU (HC-4) |
|  1~5: | 1SS176 (IX000760) |
| 2. Rotary Encoder | |
| TEMPO: | EC24BG5D (VH572900) (HC-2) |
| TEMPO/(DATA): | EC24BG5D (VH572800) (HC-4) |

ENC		CN1	
Pin No.	Pin Name	Wire Color	Destination
1	1S2		PN1-CN1-1
2	1S3		PN1-CN1-2
3	1S4		PN1-CN1-3
4	1S5		PN1-CN1-4
5	1S6		PN1-CN1-5
6	1D9		PN1-CN1-6


● MIDI Circuit Board (HC-2, HC-4)



Components side

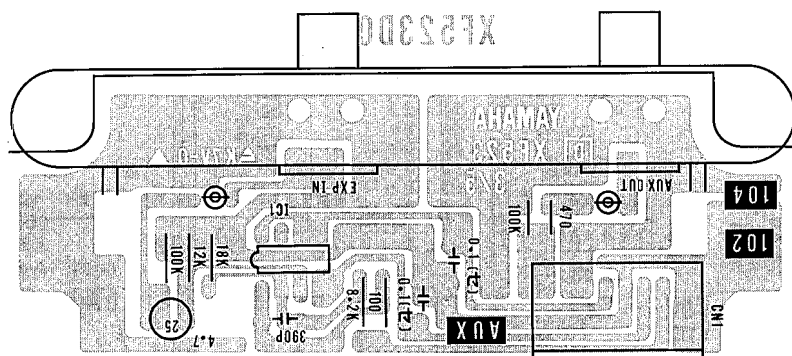
Notes)

*Circuit Board: MIDI (VH298800) XF523D0

1. Semiconductive Cera. Cap. 0.1 (セ): 0.1 μ 25V Z (FZ004130)
2. Coil : 60 μ H SBT-0460T (VD473700)
3. Connector MIDI IN, OUT: ABS (VA724900)

MIDI			CN1
Pin No.	Pin Name	Wire Color	Destination
1	OUT3		DM-CN17-1
2	OUT3		DM-CN17-2
3	OUT2		DM-CN17-3
4	OUT1		DM-CN17-4
5	IN2		DM-CN17-5
6	IN1		DM-CN17-6
7	Vss		DM-CN17-7
8	Vss		DM-CN17-8


● AUX Circuit Board (HC-2, HC-4)



Components side

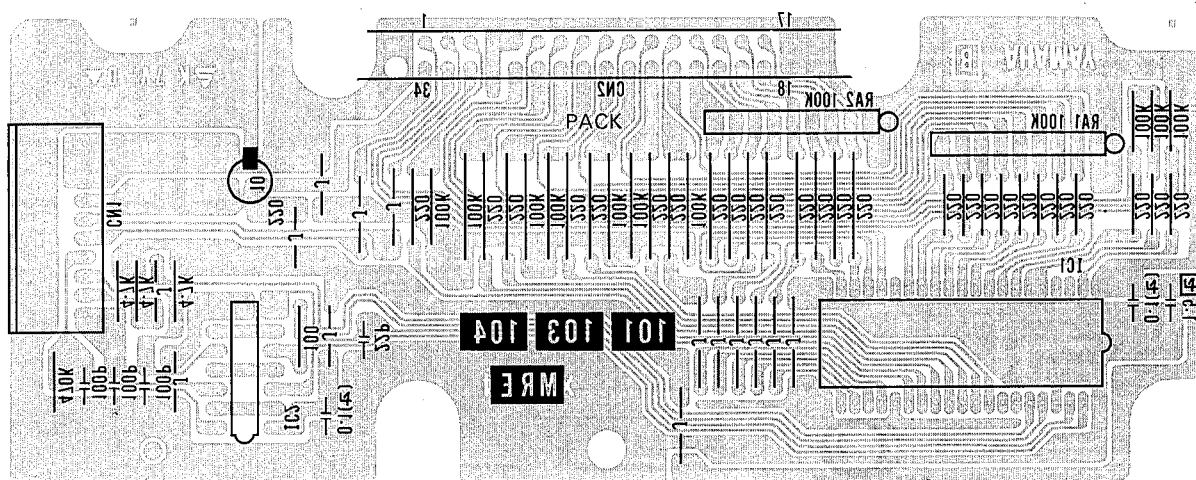
Notes)

*Circuit Board: AUX (VH298900) XF523D0

1. IC
IC 1: RC4558D-V (IG001390) OP AMP.
2. Semiconductive Cera. Cap.
0.1 (セ): 0.1 μ 25V Z (FZ004130)
3. Coil
: 60 μ H SBT-0460T (VD473700)
4. Connector
EXP.IN, AUX.OUT: LAP1000 (VH306800)

AUX		CN1	
Pin No.	Pin Name	Wire Color	Destination
1	AUX-OUT		DM-CN20-1
2	E		DM-CN20-2
3	E		DM-CN20-3
4	+ 15		DM-CN20-4
5	E		DM-CN20-5
6	- 15		DM-CN20-6
7	EXP-IN		DM-CN20-7
8	E		DM-CN20-8

● MRE Circuit Board (HC-4 only)



Pattern side

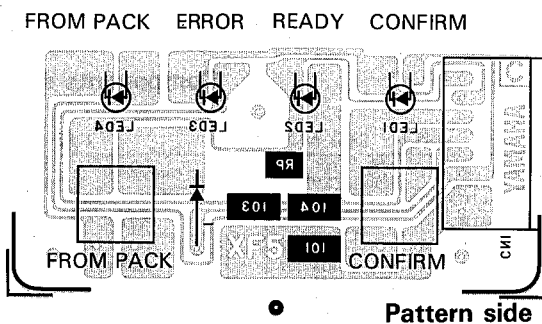
Notes)



*Circuit Board: MRE (NX004140) XF524B0 (HC-4)

1. IC
IC 1: TC17G005AN-0019 (XB810001) SI-1
IC 2: TC74HC14P (IR001400) INV
2. Resistor Array
RA 1, 2: RGLD8X104J (VE331300)
3. Semiconductive Cera. Cap.
0.1 (セ): 0.1 μ 25V Z (FZ004130)
4. Monolithic Cera. Cap.
1.5 (セ): 1.5 μ 25V Z (FZ005610)

MRE		CN1	
Pin No.	Pin Name	Wire Color	Destination
1	SCLK		DM-CN12-1
2	SIO		DM-CN12-2
3	D1R1		DM-CN12-3
4	D1C2		DM-CN12-4
5	MIN		DM-CN12-5
6	WP		DM-CN12-6
7	VDD		DM-CN12-7
8	VSS		DM-CN12-8
9	VSS		DM-CN12-9
10	VSS		DM-CN12-10


● **RP Circuit Board (HC-4 only)**



MRE: 2NA-VH29930
RP: 2NA-VH29940 
NW: 2NA-VE91910 
EXP: 2NA-VH51330 : HC-2
2NA-VF11150 : HC-4

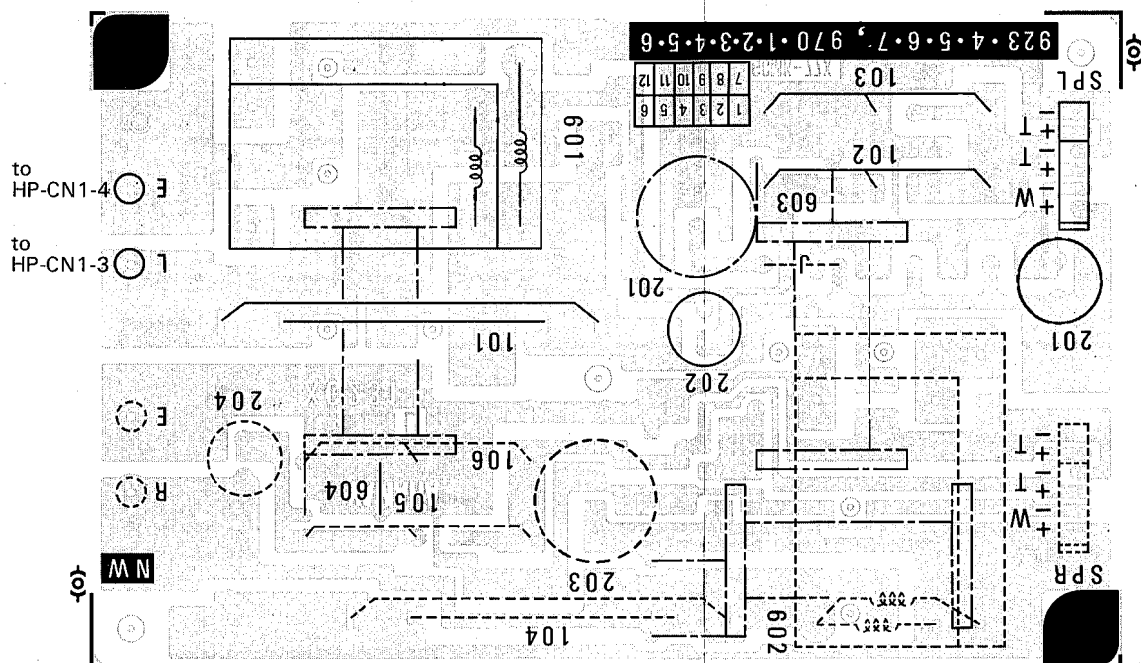
Notes)

*Circuit Board: RP (NX004150) XF525CO (HC-4)

1. Diode
 1: 1SS176 (IX000760)
2. LED
 LED 1, 3, 4: RE SLP-951B-51 (VF101300) CONFIRM, ERROR,
 FROM PACK
 LED 2: GR SLP-351B-51 (VF101400) READY
3. Push Switch
 SW 1, 2: SKEVAD001A (KA907010) CONFIRM, F.PACK

RP		CN1	
Pin No.	Pin Name	Wire Color	Destination
1	1D7		DM-CN3-1
2	1D8		DM-CN3-2
3	CONF		DM-CN3-3
4	1L2		DM-CN3-4
5	1S1		DM-CN3-5
6	1L1		DM-CN3-6
7	Vss		DM-CN3-7
8	Vss		DM-CN3-8

●NW Circuit Board (HC-2,HC-4)



Components side

Notes)

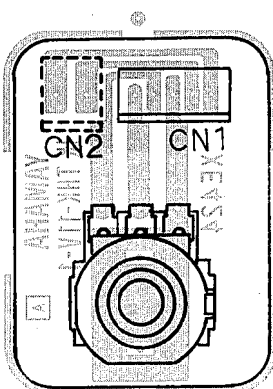
*Circuit Board: NW (VE919200) XC231D0

1. Network Coil
601: 0.6mH (VC929300)
603: 0.35mH (VE919400)

NW		CN1	
Pin No.	Pin Name	Wire Color	Destination
1	E	GR	HP-CN1-3
2	L	BR	HP-CN1-4

NW		SPL	
Pin No.	Pin Name	Wire Color	Destination
1	W+	YE	Woofers ⊕
2	W-	WH	Woofers ⊖
3	T+	BR	Tweeters ⊕
4	T-	GR	Tweeters ⊖

●EXP Circuit Board (HC-2,HC-4)



Components side

Notes)

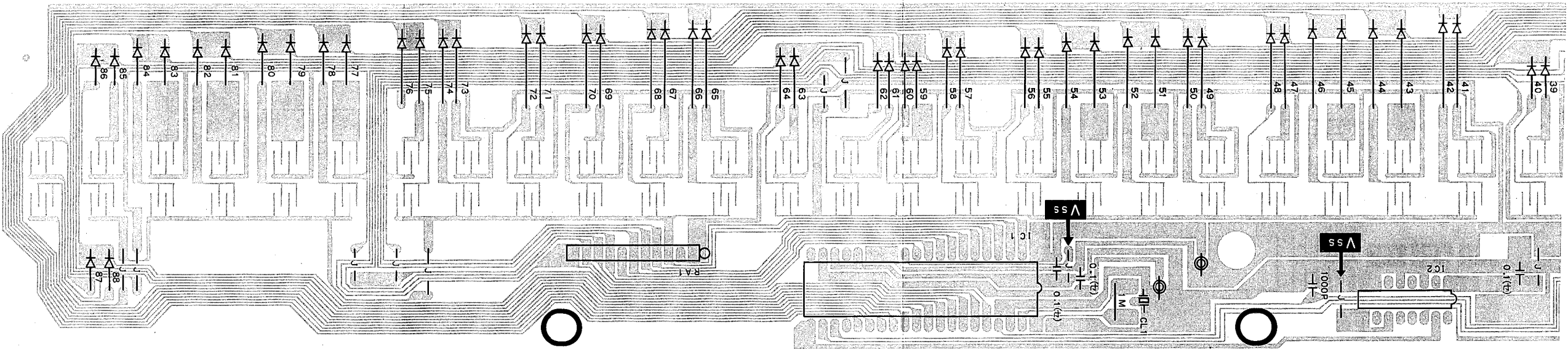
*Circuit Board: EXP (VH513300) XE424A0 (HC-2)
EXP (VF111500) XE424A0 (HC-4)

1. Variable Resistor: B10K RK16Y11L (VA228800)

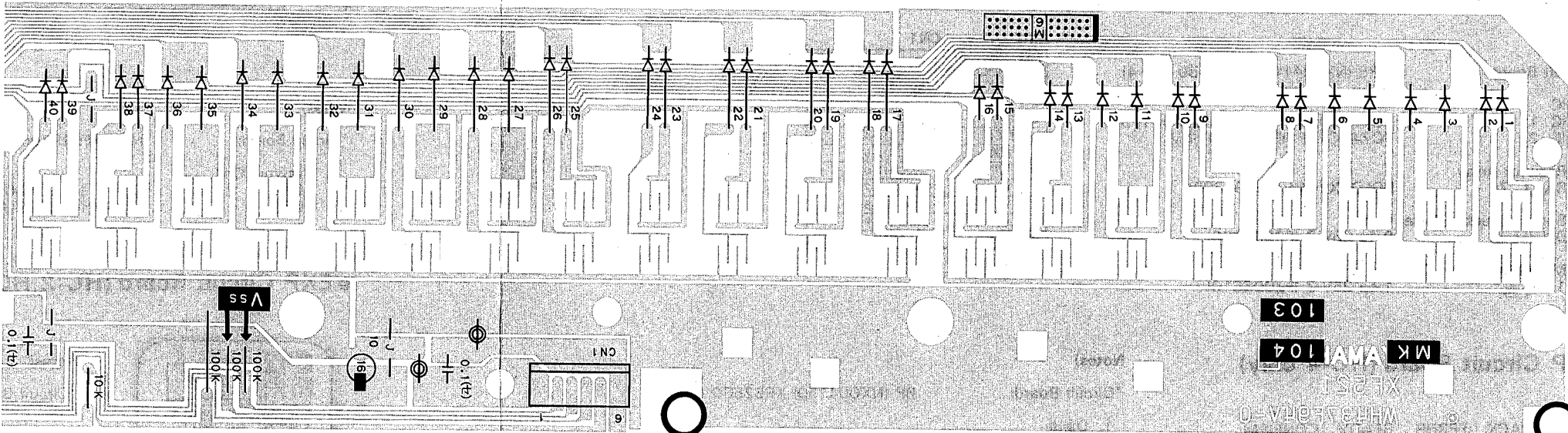
EXP		CN1	
Pin No.	Pin Name	Wire Color	Destination
1	1S2		PK-CN2-1
2	1D8		PK-CN2-2
3	Vss		PK-CN2-3
4	VREF		PK-CN2-4
5	EXP		PK-CN2-5

EXP		CN2 (HC-4 only)	
Pin No.	Pin Name	Wire Color	Destination
1	1S2		FOOT-SW
2	1D8		FOOT-SW

●MK44 Circuit Board (HC-4)



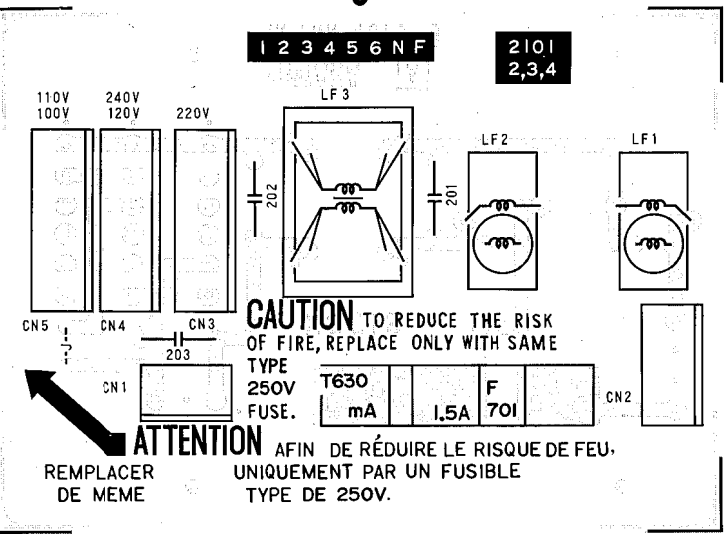
- Notes)
- *Circuit Board: MK44 (VH299100) XF521C0 (HC-4)
- 1. IC
IC 1: YM3430 (XF497A00) KBS2
IC 2: TC4050BP (IG001740) BUF
 - 2. Diode
1~88: 1SS176 (IX000760)
 - 3. Resistor Array
RA 1: RKC1/8B10 33K J (VB747600)
 - 4. Semiconductive Cera. Cap.
0.1 (セ): 0.1 μ 25V Z (FZ004130)
 - 5. Coil
60 μ H SBT-0460T (VD473700)
 - 6. Ceramic Resonator
CL 1: 3.25MHz (VB467100)



Components side

MK44 (UK) CN1				MK44 (LK) CN1			
Pin No.	Pin Name	Wire Color	Destination	Pin No.	Pin Name	Wire Color	Destination
1	VDD		DM-CN16-1	1	VDD		DM-CN14-1
2	DIC1		DM-CN16-2	2	DIC1		DM-CN14-2
3	DRU		DM-CN16-3	3	DRL		DM-CN14-3
4	KDU		DM-CN16-4	4	KDL		DM-CN14-4
5	CLK		DM-CN16-5	5	CLK		DM-CN14-5
6	VSS		DM-CN16-6	6	VSS		DM-CN14-6

●PRM Circuit Board (HC-2,HC-4)



Components side

Notes)

*Circuit Board:

- PRM (VH631700) XG016A0 (X, M)
PRM (VH631400) XG016A0 (U, C)
PRM (VH631500) XG016A0 (E, B, A, D)
1. Ceramic Cap.
201~203: 0.01 μ 125V P (FZ002030)
 2. Choke Coil
LF 1, 2: CL01BD131 (VA131100)
 3. Line Filter
LF 3 (X, M, E, B, A, D): LF-4A 28 (VB566000)
LF 3 (U, C): SU10VD-20020 (VI486800)
 4. Fuse
F701 (X, M): T 1.5A 250V (KB000340)
F701 (U, C): T 1.5A 250V (KB001590)
F701 (E, B, A, D): T630mA 250V S (KB002600)

PRM

CN1

Pin No.	Pin Name	Wire Color	Destination
1	AC	WH	POWER SW
2	NC	—	—
3	AC	GY	POWER SW

PRM

CN2

Pin No.	Pin Name	Wire Color	Destination
1	AC	—	AC Cord
2	NC	—	—
3	NC	—	—
4	AC	—	AC Cord

PRM

CN3 (X, M, E, B, A)

Pin No.	Pin Name	Wire Color	Destination
1	0V	GY	PT-Primary
2	—	—	—
3	—	—	—
4	—	—	—
5	220V	BE	PT-Primary (X, E)
6	—	—	—

PRM

CN5 (X, M)

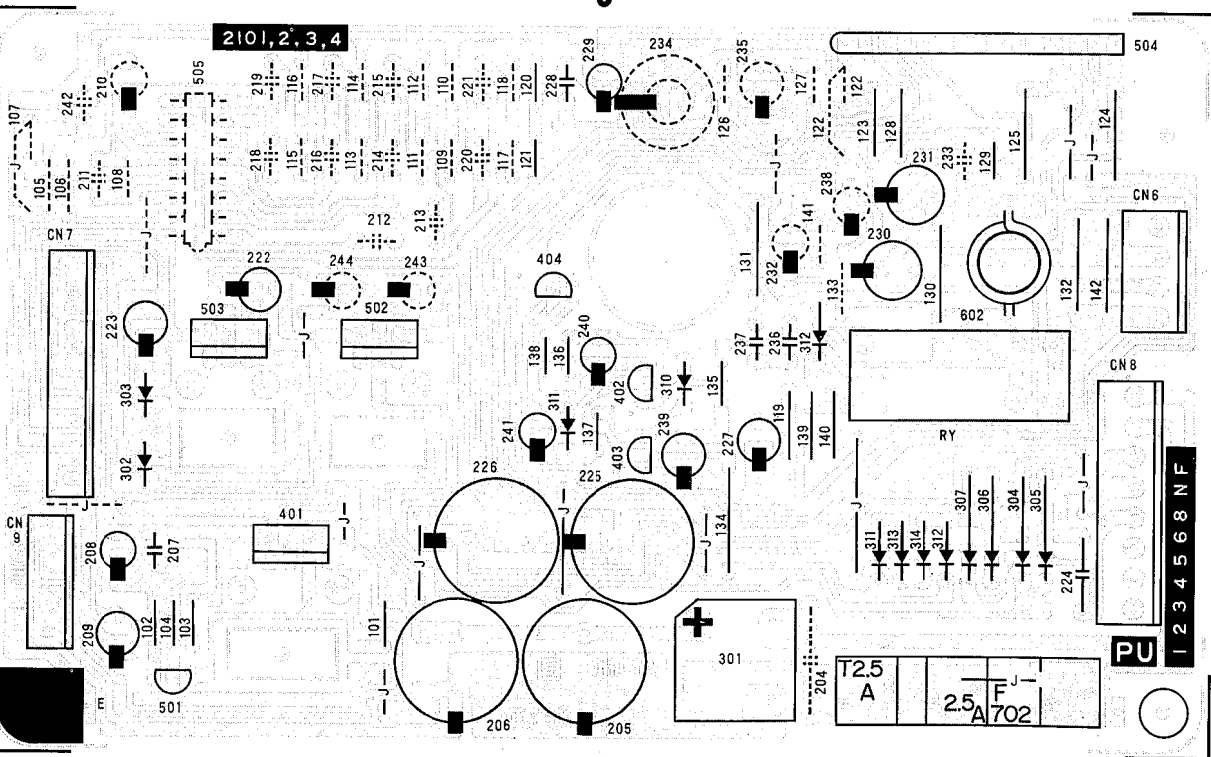
Pin No.	Pin Name	Wire Color	Destination
1	0V	GY	PT-Primary
2	100V (110V)	YE WH	PT-Primary (X)
3	—	—	—
4	—	—	—
5	—	—	—
6	—	—	—

PRM

CN4

Pin No.	Pin Name	Wire Color	Destination
1	0V	GY, BR	PT-Primary
2	—	—	—
3	120V	VI, OR	PT-Primary (X, U, C)
4	—	—	—
5	—	—	—
6	240V	RE	PT-Primary (B)

●PU Circuit Board (Power Amplifier Unit) (HC-2,HC-4)



Components side

Notes)

*Circuit Board:

- PU XF701B0
1. IC
501: M5236L (XB420001) REGULATOR
502: NJM7815A (IG147400) 15V 1A
503: NJM7915A (IG147500) -15V 1A
504: STK4026-2 (XC567001) 25W 1CH
505: M5227P (XF751A00) EQUALIZER
 2. Transistor
401: 2SA1328 O, Y (IX602260)
402~404: 2SC1815 Y, GR (IC181580)
 3. Diode
302~307, 309, 313, 314: 11ES4 (VB481900)
308, 310~312: 1SS178 (IX802720)
 4. Diode Stack
301: S4VB20 3A 200V (IH001210)
 5. Metal Oxide Film Resistor
142: 0.22 Ω 1W (HL312220)
130, 131: 10 Ω 1W K (HL314100)
 6. Fuse Resistor
124, 125: 100 Ω 1/4W J (HW095100)
 7. Relay
RY: DC 24V (KC001990)
 8. Ceramic Cap.
224: 0.01 μ 500V P (VA302600)
 9. Mylar Cap. (E, B, A, D)
204: 0.47 μ 100V (FC085470)
 10. Semiconductive Cera. Cap.
236, 237: 0.1 μ 25V Z (FZ004130)
 11. Coil
602: 1.5 μ H RZ-001 (GD900470)
 12. Fuse
702 (U, C): T 2.5A 250V (KB002680)
702 (E, B, A, D): T 2.5A 250V S (KB000690)

PU

CN6

Pin No.	Pin Name	Wire Color	Destination
1	NC	—	—
2	E	—	—
3	OUT	—	HP-CN1-1
4	E	—	HP-CN1-2

PU

CN8

Pin No.	Pin Name	Wire Color	Destination
1	V1	—	PT-Secondary
2	V2	—	PT-Secondary
3	V3	—	PT-Secondary
4	E	—	PT-Secondary
5	V4	—	PT-Secondary
6	NC	—	—
7	NC	—	—
8	NC	—	—

PU

CN7

Pin No.	Pin Name	Wire Color	Destination
1	+5	—	DM-CN18-1
2	+5	—	DM-CN18-2
3	+5	—	DM-CN18-3
4	Vss	—	DM-CN18-4
5	Vss	—	DM-CN18-5
6	Vss	—	DM-CN18-6
7	+15	—	DM-CN18-7
8	E	—	DM-CN18-8
9	-15	—	DM-CN18-9
10	OUT	—	DM-CN18-10
11	E	—	DM-CN18-11
12	E	—	DM-CN18-12

PU

CN9

Pin No.	Pin Name	Wire Color	Destination
1	+V	—	DM-CN11-1
2	+V	—	DM-CN11-2
3	+V	—	DM-CN11-3
4	VSSL	—	DM-CN11-4
5	VSSL	—	DM-CN11-5
6	VSSL	—	DM-CN11-6

PRM: 2NA-VH63130 Δ

PU: 2NA-VG80350 Δ