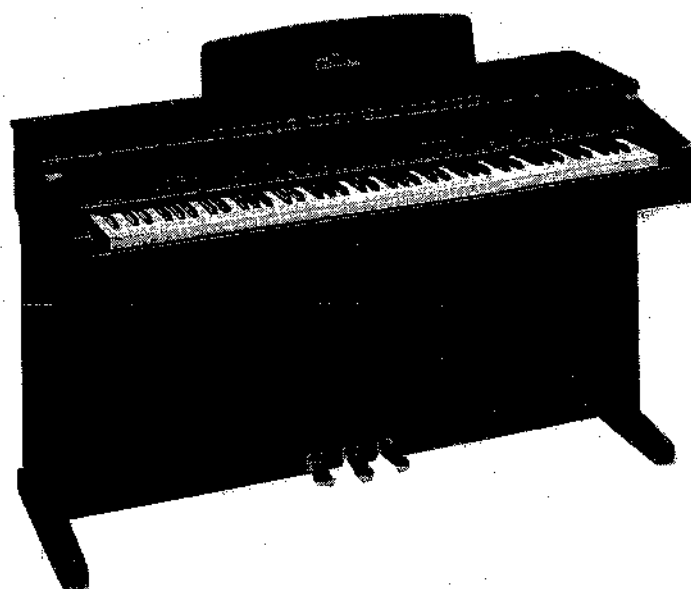


Clavinova®

CVP-92

SERVICE MANUAL



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CL 001585

YAMAHA CORP.

HAMAMATSU, JAPAN
1.75K-857 ① Printed in Japan '97.5

CVP-92

IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT: This presentation or sale of this manual to any individual or firm does not constitute authorization, certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity you body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss.)

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

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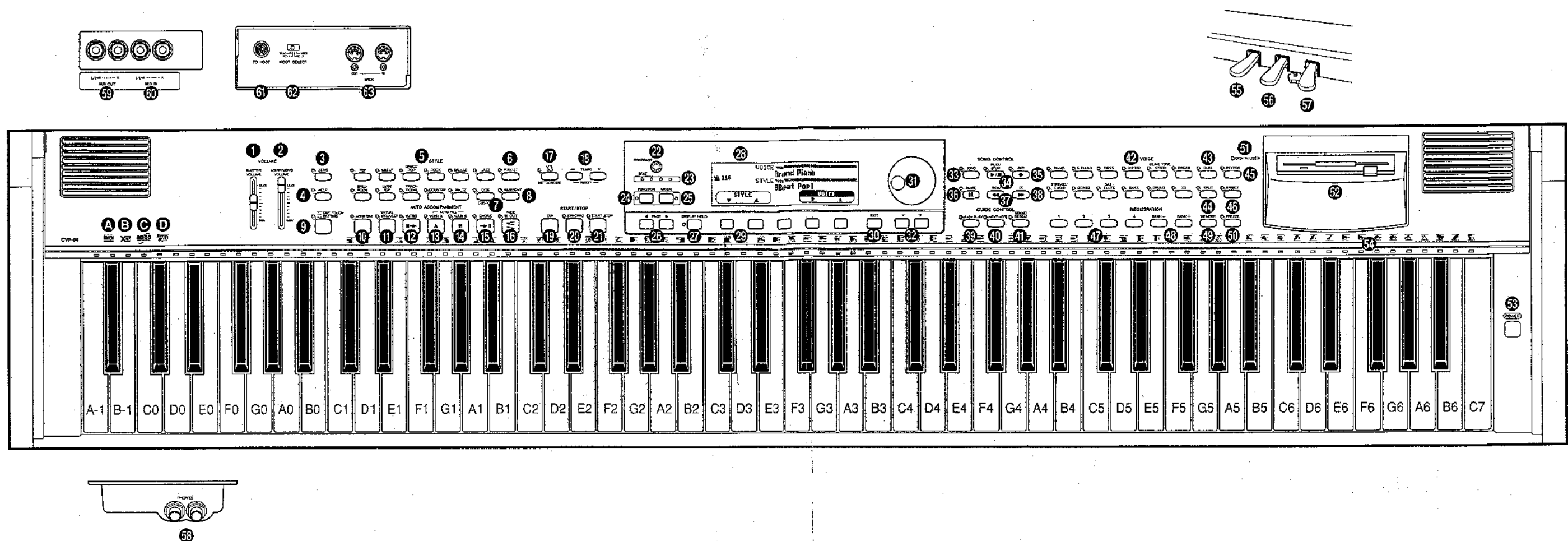
SPECIFICATIONS

KEYBOARD		88 keys (A-1 — C7)
TONE GENERATOR		AWM (Advanced Wave Memory)
MAXIMUM SIMULTANEOUS POLYPHONY		32
VOICES		Clavinova voices: 133 ; XG voices: 480 ; Drum Kits: 12 sets Voice Groups: Piano, Electric Piano, Vibraphone, Guitar, Clavinova Tone/Synth, Organ, Strings/Choir, Brass, Sax/Flute, Bass, Drums, XG Dual/Split
EFFECTS		Effect (25 types), Reverb (16 types)
ACCOMPANIMENT STYLES		Accompaniment Styles: 100; Pianist Styles: 40 Style Groups: Pop, 16 Beat, Dance Pop, Rock, Ballad, Jazz, Ballroom, Latin Pop, Traditional, Country, Waltz Disk/Custom Pianist Controls: Start/Stop, Syncro, Tap, Intro, Main A, Main B, Auto-fill, Ending, Fade in/out buttons Metronome, Tempo -/+ buttons
AUTO ACCOMPANIMENT		Single Finger, Multi Finger, Fingered, Full Keyboard Harmony, Pianist, One Touch Setting, Virtual Arranger, Synchro Stop, Small ACMP, Chord Assist, Individual Part Volume Control (Mixer)
REGISTRATION		Bank A - E x 4 memory locations (20), Freeze
SONG PLAY MODE		Song Playback, Repeat, Volume control of individual Parts (Mixer) Controls: Song, Play/Stop, Rewind, Fast forward, Pause Guide Control: Easy Play, Next Note, Sound Repeat
SONG RECORD MODE		Quick Recording, Track Recording, Chord Sequence, Song Name, Track Edit, Initial Edit
LCD/CONTROLS		240 x 64 dot liquid crystal display, Contrast dial, Beat lamp, Function button, Mixer button, Page ◀ ▶ buttons, Display hold button, LCD buttons, data dial, -/+ buttons, Exit button
VOLUME CONTROLS		Master volume, ACMP/Song volume
DEMO/HELP		27 Demo Songs; 5 help languages (English, Japanese, German, French, Spanish)
DISK DRIVE		3.5-inch micro floppy disk drive
PEDAL CONTROLS	RIGHT	Damper
	CENTER	Sostenuto
	LEFT	Soft, Start/Stop, Harmony On/Off, Registration+, Main A, Main B, Ending/Rit, Break, Fade In/Out
JACKS AND TERMINALS		Headphone jacks x 2, AUX OUT jacks (L/L+R, R), AUX IN jacks (L/L+R, R), TO HOST terminal, MIDI terminals (IN, OUT)
INPUT/OUTPUT SPECIFICATIONS		AUX OUT: Output Impedance: 600 Ω AUX IN: Input Impedance: 10 kΩ; Input Sensitivity: -10 dBm
MAIN AMPLIFIERS		60 W (30 W x 2)
SPEAKERS		16 cm x 2
DIMENSIONS (W x D x H)	Music stand down	1391 mm x 550 mm x 845.4 mm (54-3/4" x 21-5/8" x 33-5/16")
	Music stand up	1391 mm x 550 mm x 1019.8 mm (54-3/4" x 21-5/8" x 40-1/8")
WEIGHT		58.0 kg (123 lbs., 7 oz.)
OUTPUT		Refer to the Test program section of this manual

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PANEL LAYOUT



A This is the GM (General MIDI) logo. This indicates that the CVP-94/92 can playback GM-compatible disk software.

B This is the XG format logo. This indicates that the CVP-94/92 can playback XG-compatible disk software.

C This is the Disk Orchestra Collection (DOC) format logo. This indicates that the CVP-94/92 can playback DOC format disks.

D This is the Style File logo. This indicates that the CVP-94/92 can use optional Yamaha Style File disks.

Volume Section

- 1 [MASTER VOLUME]
- 2 [ACMP/SONG VOLUME]
- 3 [DEMO]
- 4 [HELP]

Accompaniment Style Section

- 5 STYLE buttons
- 6 [PIANIST]
- 7 [DISK/CUSTOM]
- 8 [HARMONY]
- 9 [ONE TOUCH SETTING]
- 10 [ACMP ON]
- 11 [VIRTUAL ARRANGER]
- 12 [INTRO]
- 13 [MAIN A]
- 14 [MAIN B]
- 15 [ENDING]
- 16 [FADE IN/OUT]
- 17 [METRONOME]
- 18 TEMPO [-/+]

Start/Stop Section

- 19 [TAP]
- 20 [SYNCHRO]
- 21 [START/STOP]

Display Control Section

- 22 [CONTRAST]
- 23 [BEAT]
- 24 [FUNCTION]
- 25 [MIXER]
- 26 PAGE [◀, ▶]
- 27 [DISPLAY HOLD]
- 28 LCD display
- 29 LCD buttons
- 30 [EXIT]
- 31 Data dial
- 32 [-/+]

Song Control Section

- 33 [SONG]
- 34 [PLAY/STOP]
- 35 [REC]
- 36 [PAUSE]
- 37 [REW]
- 38 [FF]

Guide Control Section

- 39 [EASY PLAY]
- 40 [NEXT NOTE]
- 41 [SOUND REPEAT]

Voice Section

- 42 VOICE buttons
- 43 [DUAL]
- 44 [SPLIT]
- 45 [REVERB]
- 46 [EFFECT]

Registration Section

- 47 REGISTRATION [1] - [4]
- 48 BANK [-] [+]
- 49 [MEMORY]
- 50 [FREEZE]
- 51 DISK IN USE lamp
- 52 Floppy disk drive (3.5")
- 53 [POWER]

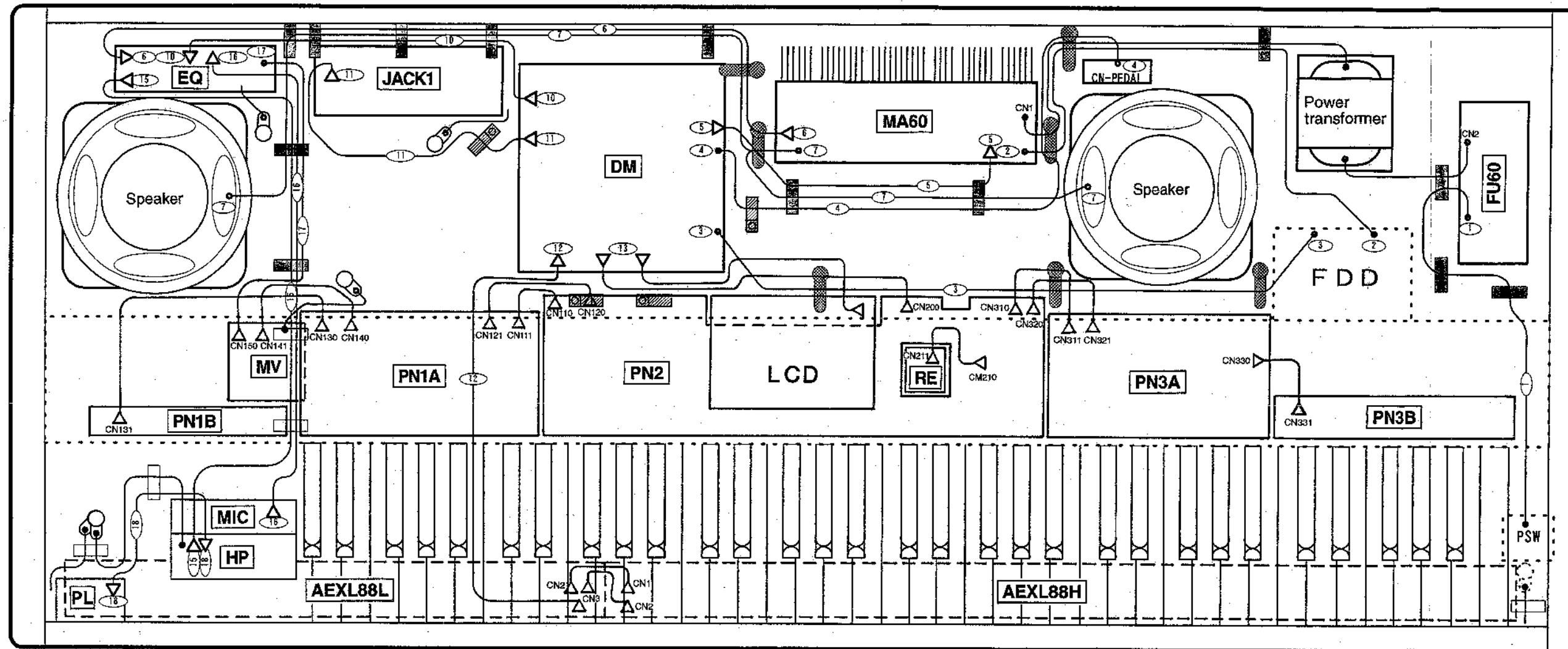
54 Keyboard guide-lamps

- 55 Soft pedal
- 56 Sostenuto pedal
- 57 Damper pedal
- 58 [PHONES]
- 59 AUX OUT [R], [L/L+R]
- 60 AUX IN [R], [L/L+R]
- 61 [TO HOST]
- 62 [HOST SELECT]
- 63 MIDI [IN], [OUT]

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CIRCUIT BOARD LAYOUT

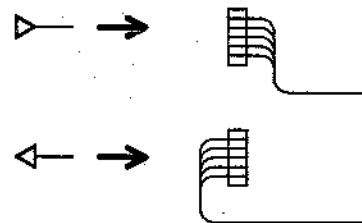


Note:

*1.MIC circuit board is installed Japanese model only.

*2.Connector assembly ⑯ VK11210 is installed Japanese model only.

*3.➡ and ➡ are indicated connector wire direction as shown below:



Connector assembly list

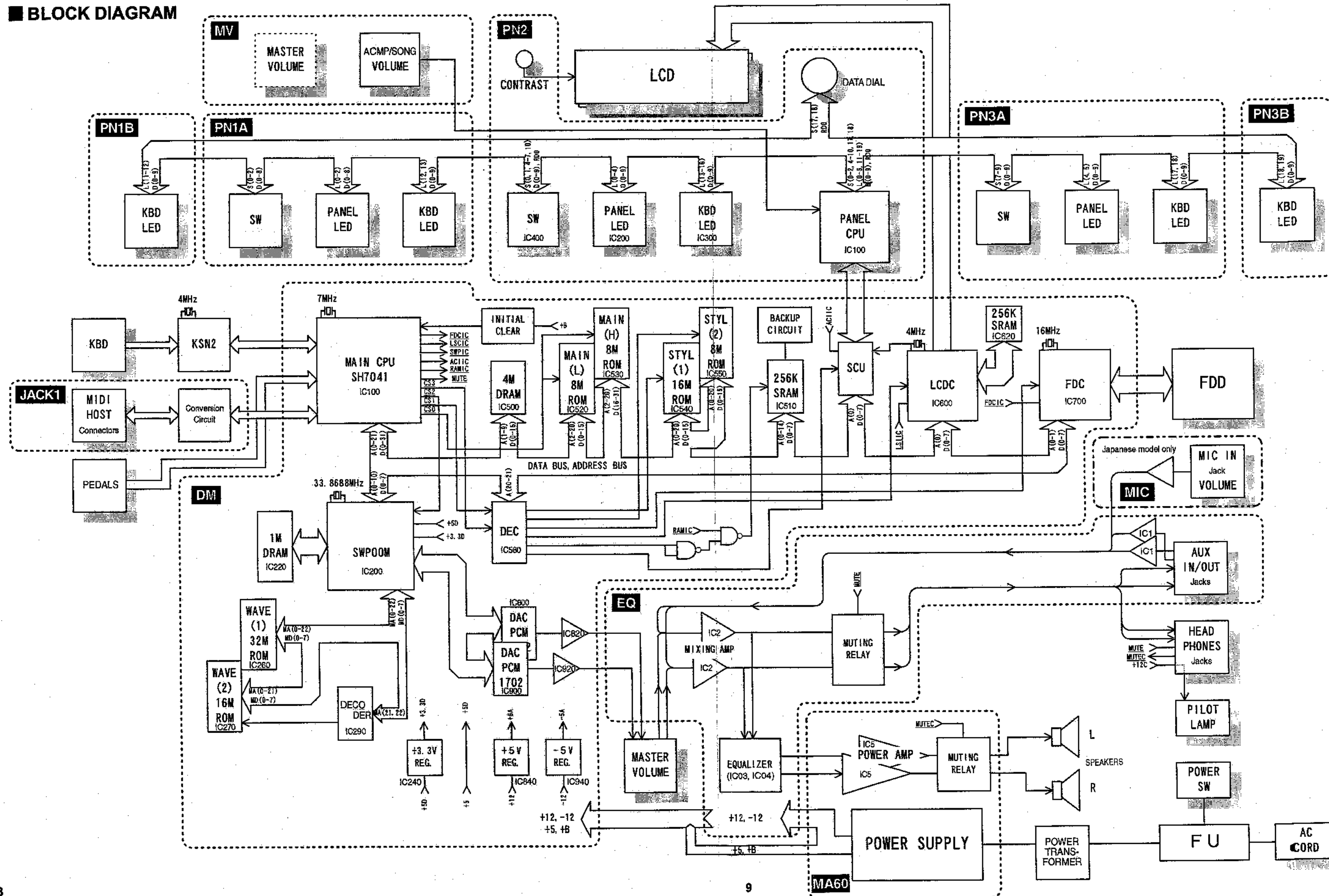
Location	Parts No.	Connector Assembly	Destination		Remarks
①	VV65000	P.S.W	FU60-CN1	POWER switch	3P-400L
②	VV652000	FDD-POW	MA60-CN3	FDD	3P-450L
③	VV853600	FDD-SIG	DM-CN750	FDD	34P-650L
④	VV85260	PK-LF	DM-CN310	Keybed	6P-650L
⑤	VK107900	KRD-KRD (Power supply)	DM-CN350	MA60-CN4	7P-350L
⑥	VK120000	KRD-KRD (EQ-OUT)	MA60-CN6	EQ-CN3	9P-750L
⑦	VV85570	SP	MA60-CN5	Speakers	4P-L:800 4P-R:400
⑩	VK111400	KRD-KRD (DM-OUT)	DM-CN850	EQ-CN2	12P-450L
⑪	VV85350	MIDI-LF	DM-CN320	JACK1-CN4	7P-450L
⑫	VV85230	MK-LF	AEXL88L-CN1	DM-CN330	8P-500L
⑬	VV85280	PN-LF	DM-CN450	PN2-CN200	11P-800L
⑮	VK115200	KRD-KRD (HP)	DM-CN650	LCD assembly	12P-500L
⑯*	VK11210	KRD-KRD (MIC)	HP-CN1	EQ-CN5	7P-600L
⑰	VV85560	VOL	MIC-CN1	EQ-CN6	4P-500L
⑱	VV85580		MV-CN150	EQ-CN1	8P-450L
⑲	VK10520	KRD-KRD (PL)	HP-CN2	PL-CN1	2P-300L

Note: Connector assembly listed above not available as servicing parts except VV652000, VV853600, VK107900, VK120000, VK111400 and VK115200.

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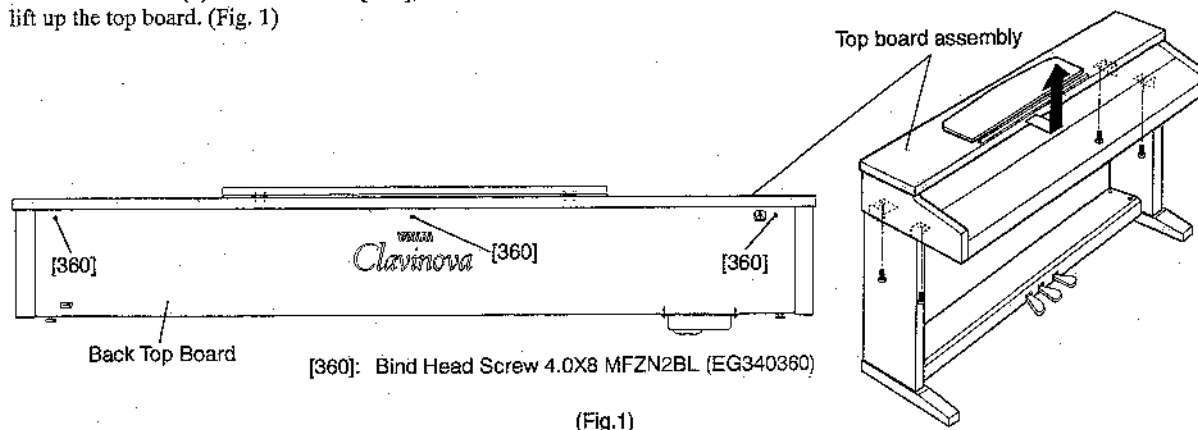
BLOCK DIAGRAM



DISASSEMBLY PROCEDURE

1 Top Board Assembly

Remove the three (3) screws marked [360]; slide and lift up the top board. (Fig. 1)



(Fig.1)

※ After removing the top board assembly, the following circuit boards and units can be checked and/or removed by removing the screws. (Fig. 2)

1-A DM circuit board:

Remove the seven (7) screws marked [330A].
For US model: Before removing the DM circuit board, it is necessary to remove the DM shield cover by removing the seven (7) screws marked [300A].

1-B FDD assembly:

Remove the screws marked [300B] and [310], there are two of each; remove the FDD assembly.
Remove the four (4) screws marked [5] then the floppy disk drive unit can be removed. (Fig. 3)

1-C Power transformer:

Remove the four (4) screws marked [300C].

1-D MA60 assembly:

Remove the two (2) screws marked [300E].
For US model: Before removing the MA60 assembly, it is necessary to remove the MA cover by removing the four (4) screws marked [300D].

1-E FU60 assembly:

Remove the FU cover by removing the two (2) screws marked [300F], and remove the two (2) screws marked [300G].

1-F A-JACK assembly:

Remove the two (2) screws marked [300H].

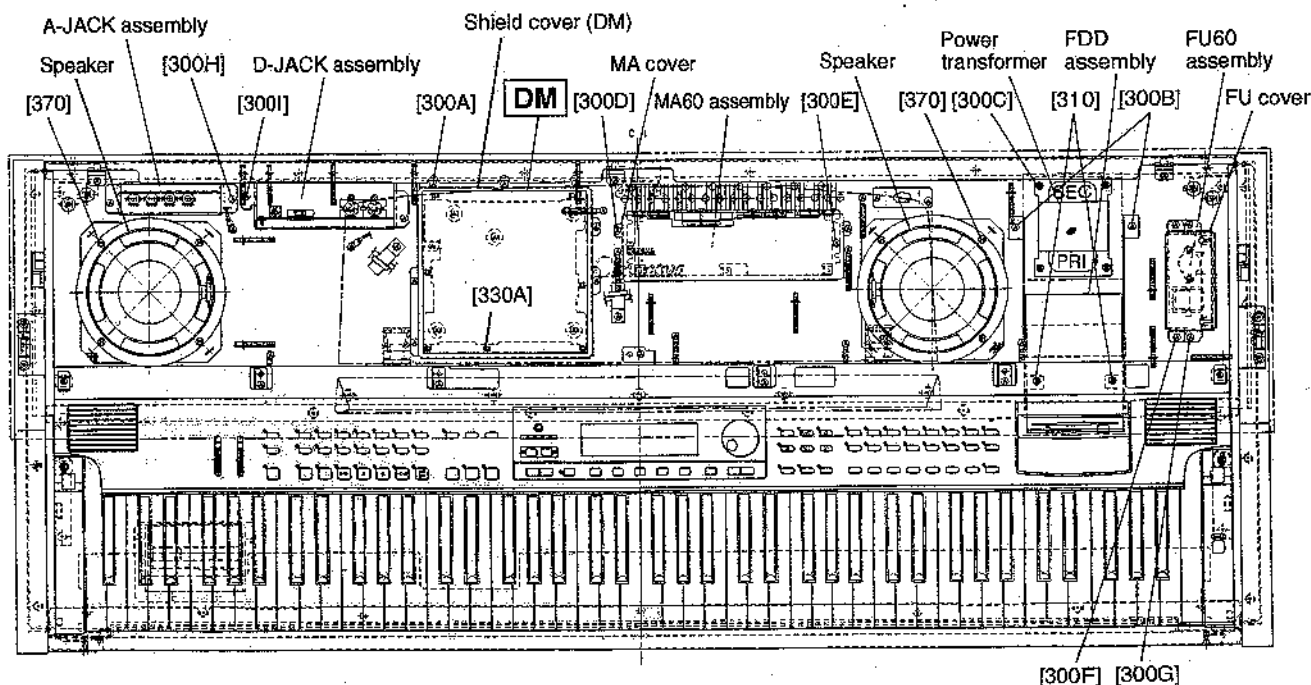
1-G D-JACK assembly:

Remove the two (2) screws marked [300I].

1-H Speakers:

Remove the four (4) screws marked [370].

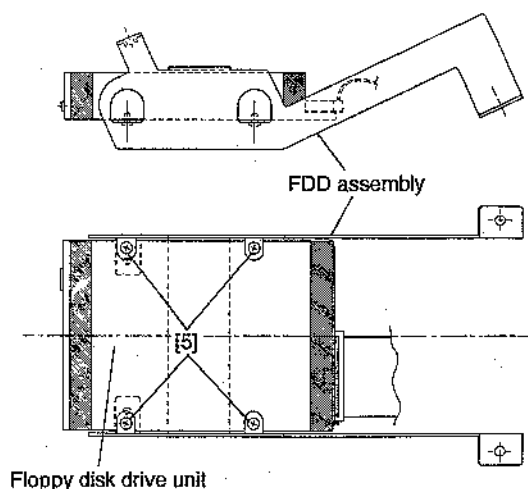
※ The right and left speakers can be removed in the same manner.



[300]: Bind Head Tapping Screw-1 3.5X12 MFZN2BL (EP030340)
[310]: Bind Head Screw 4.0X14 MFZN2Y (EG340210)
[330]: Bind Head Tapping Screw-B 3.0X8 MFZN2Y (EP600250)
[370]: Truss Head Tapping Screw-1 4X20 MFZN2Y (EX000850)

(Fig.2)

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[5]: Bind Head Screw 3.0X5 MFZN2Y (EG330150)

[Fig.3]

2 EQ Circuit Board

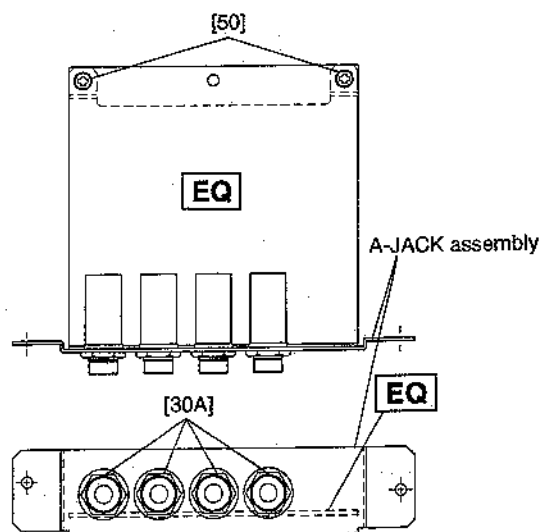
- 2-1 Remove the top board assembly. (See procedure 1.)
- 2-2 Remove the A-JACK assembly. (See procedure 1-F.)
- 2-3 Remove the two (2) screws marked [50] and the four (4) hexagonal nuts marked [30A]; remove the EQ circuit board. (Fig. 4)

3 JACK 1 Circuit Board

- 3-1 Remove the top board assembly. (See procedure 1.)
- 3-2 Remove the D-JACK assembly. (See procedure 1-G.)
- 3-3 Remove the three (3) screws marked [30B]; remove the JACK 1 circuit board. (Fig. 5)

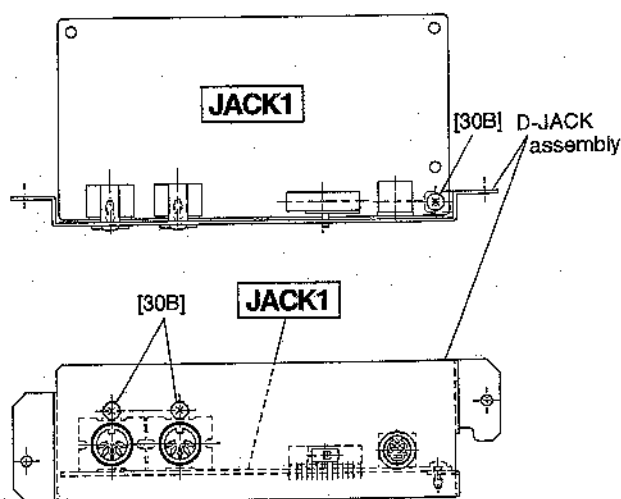
4 Key Cover Assembly (European model only)

- 4-1 Remove the top board assembly. (See procedure 1.)
- 4-2 Remove the screw marked [330B]; remove the rack cover. (Fig. 6)
- ※ The right and left rack covers can be removed in the same manner.
- 4-3 Set the either end of the rod at the slits of the guide and then lift the key cover assembly.



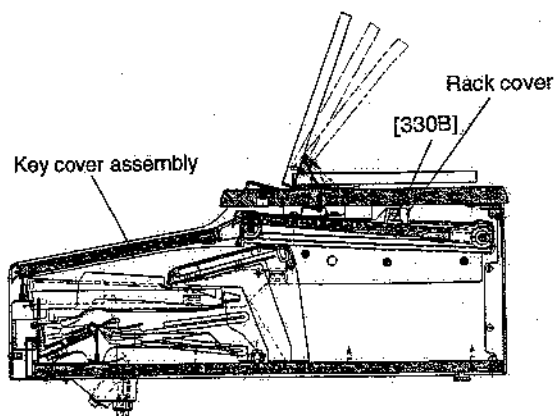
[30A]: Hexagonal Nut 12.0 14X2 MFZN2BL (VB508600)
[50]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)

(Fig.4)



[30B]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)

(Fig.5)

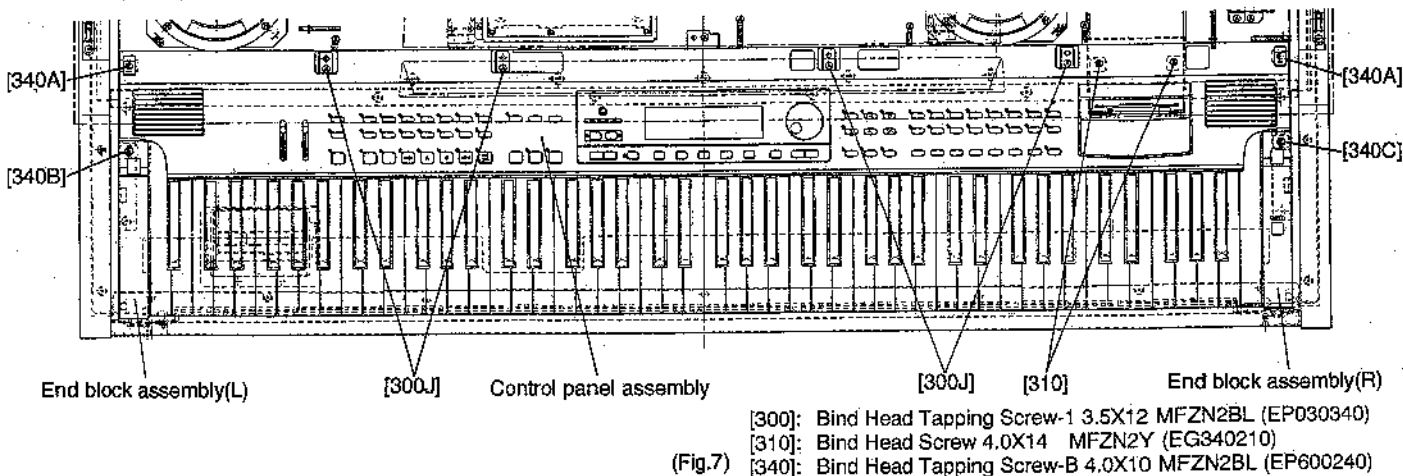


[330]: Bind Head Tapping Screw-B 3.0X8 MFZN2Y (EP600250)

(Fig.6)

5 Control Panel Assembly

- 5-1 Remove the top board assembly. (See procedure 1.)
 5-2 Remove the key cover assembly. (See procedure 4.)
 5-3 Remove the two (2) screws marked [310], the two (2) screws marked [340A] and the four (4) screws marked [300J]; remove the control panel assembly. (Fig. 7)



※ After removing the control panel assembly, the following circuit boards and units can be checked and/or removed by removing the following parts and screws. (Fig. 8)

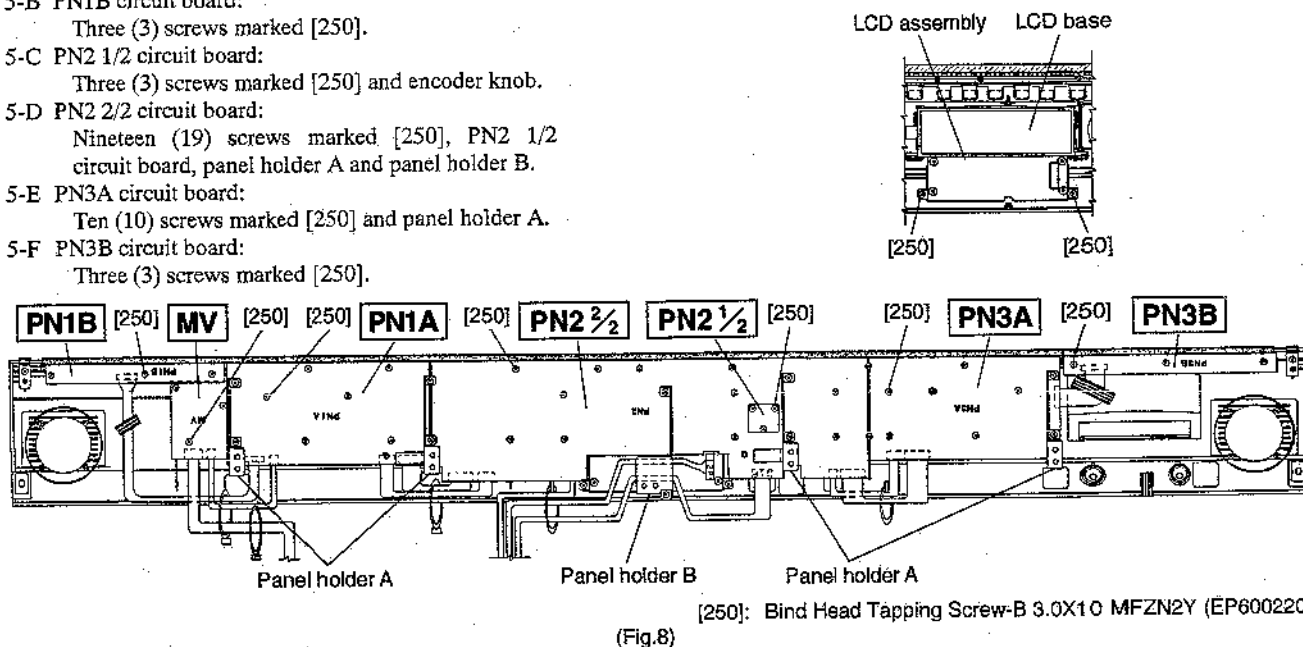
- 5-A PN1A circuit board:
 Ten (10) screws marked [250] and panel holder A.
 5-B PN1B circuit board:
 Three (3) screws marked [250].
 5-C PN2 1/2 circuit board:
 Three (3) screws marked [250] and encoder knob.
 5-D PN2 2/2 circuit board:
 Nineteen (19) screws marked [250], PN2 1/2 circuit board, panel holder A and panel holder B.
 5-E PN3A circuit board:
 Ten (10) screws marked [250] and panel holder A.
 5-F PN3B circuit board:
 Three (3) screws marked [250].

5-G MV circuit board:

Three (3) screws marked [250], PN1A and PN1B circuit boards and two (2) slide knobs.

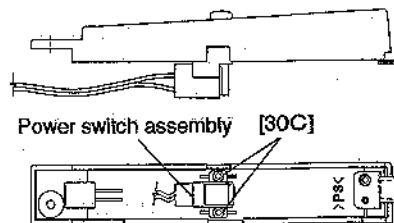
5-H LCD assembly:

Two (2) screws marked [250], PN2 1/2 and 2/2 circuit boards, LCD base and LCD spacer assembly.



6 Power Switch Assembly

- 6-1 Remove the top board assembly. (See procedure 1.)
 6-2 Remove the key cover assembly. (See procedure 4.)
 6-3 Remove the control panel assembly. (See procedure 5.)
 6-4 Remove the screw marked [340C]; remove the right end block. (Fig. 7)
 6-5 Remove the two (2) screws marked [30C]; remove the power switch assembly. (Fig. 9)



12
 (Fig.9)

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7 Keyboard Assembly

- 7-1 Remove the top board assembly. (See procedure 1.)
- 7-2 Remove the key cover assembly. (See procedure 4.)
- 7-3 Remove the control panel assembly. (See procedure 5.)
- 7-4 Remove the right end block. (See procedure 6-4.)
- 7-5 Remove the screw marked [340B]; remove the left end block. (Fig. 7)
- 7-6 Remove the screw marked [320A], the eight (8) screws marked [320B], and the two (2) screws marked [410]; remove the keyboard assembly. (Fig. 10)

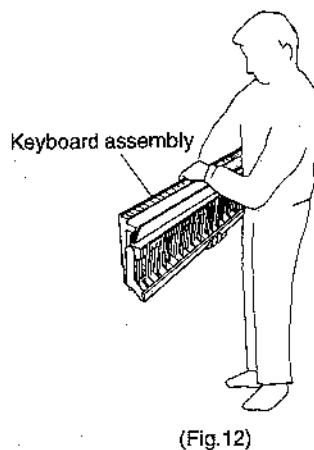
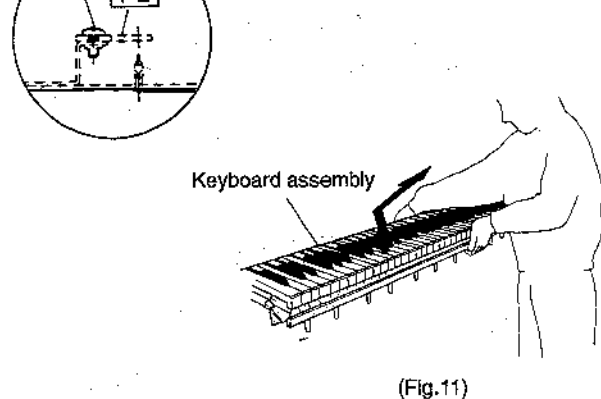
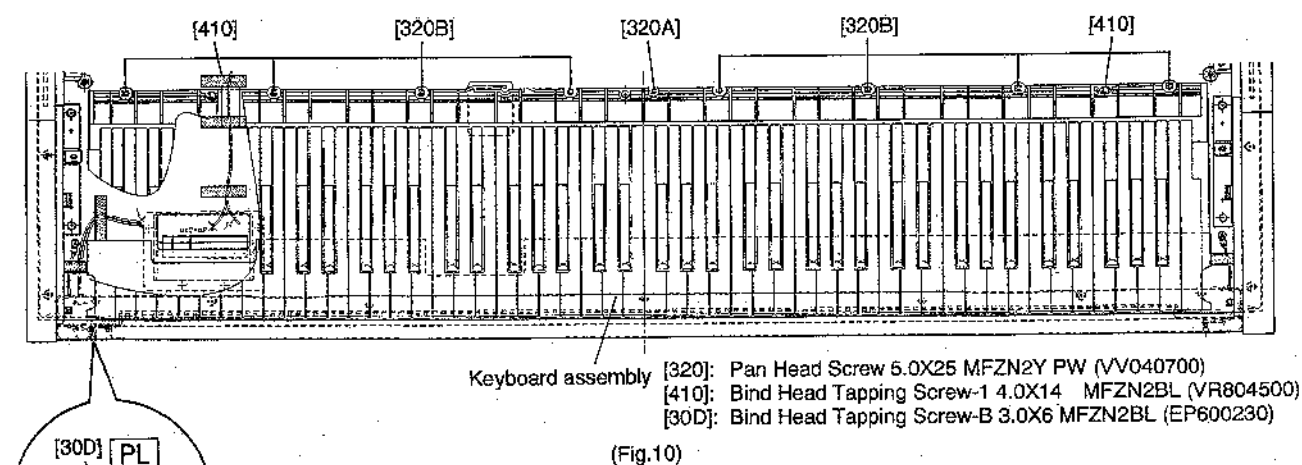
※ When you take the keyboard unit out of the main unit, slide it backward and hold the middle of it. Lift the keyboard unit from the front and take it out of the main unit as shown in the figures. (Fig. 11 and Fig. 12)

※ Do not hold both ends of the keyboard.

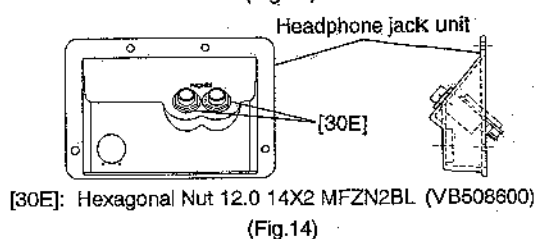
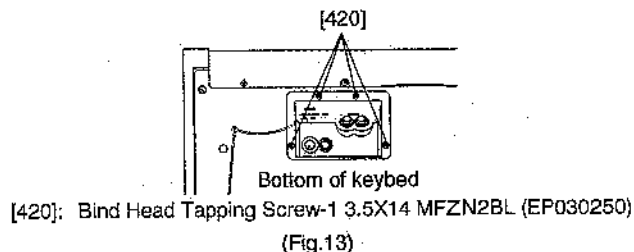
※ Tighten screws in this order: [320], [320A] and [320B].

8 PL Circuit Board

- 8-1 Remove the top board assembly. (See procedure 1.)
- 8-2 Remove the key cover assembly. (See procedure 4.)
- 8-3 Remove the control panel assembly. (See procedure 5.)
- 8-4 Remove the keyboard assembly. (See procedure 7.)
- 8-5 Remove the screw marked [30D]; remove the PL circuit board. (Fig. 10)

**9 HP Circuit Board**

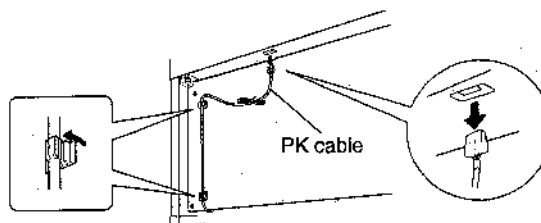
- 9-1 Remove the top board assembly. (See procedure 1.)
- 9-2 Remove the key cover assembly. (See procedure 4.)
- 9-3 Remove the control panel assembly. (See procedure 5.)
- 9-4 Remove the keyboard assembly. (See procedure 7.)
- 9-5 Remove the four (4) screws marked [420]; remove the headphone jack unit. (Fig. 13)
- 9-6 Remove the two (2) hexagonal nuts marked [30E]; remove the HP circuit board. (Fig. 14)



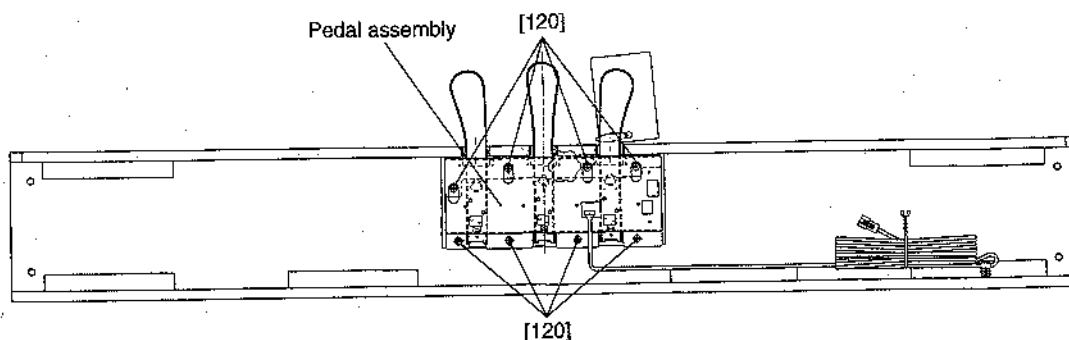
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10 Pedal Assembly

- 10-1 Disconnect the PK cable. (Fig. 15)
 10-2 Lay down the unit on a soft blanket placed on the floor, taking care not to damage the unit.
 10-3 Remove the eight (8) screws marked [120]; remove the pedal assembly. (Fig. 16)



(Fig.15)

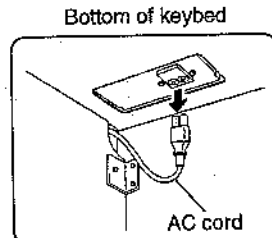


[120]: Bind Head Tapping Screw-B 3.0X8 MFZN2BL (EP600190)

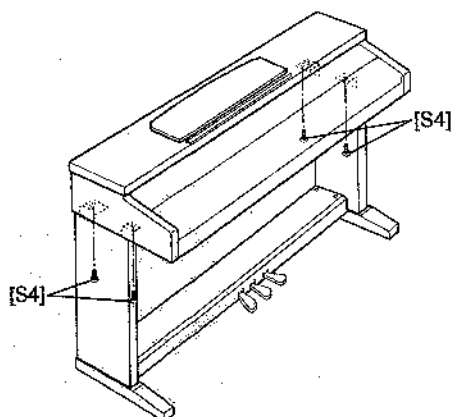
(Fig.16)

11 Main Unit

- 11-1 Disconnect the PK cable. (See procedure 10-1.)
 11-2 Disconnect the AC cord. (Fig. 17)
 11-2 Remove the four (4) screws marked [S4]; slide the main unit forward lifting it up to remove. (Fig. 18 and 19)
 ※ Be sure to place your hands at least 10 cm from either end of the main unit and take care not to pinch your fingers when removing it.

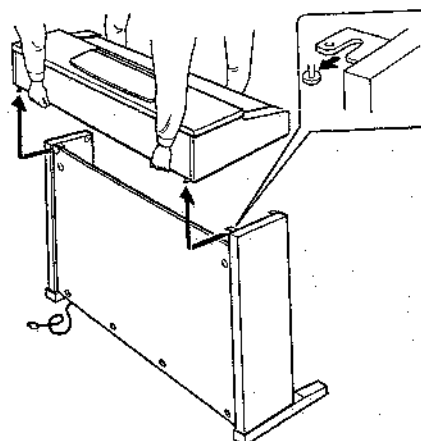


(Fig.17)



[S4]: Bind Head Screw 6.0X16 MFZN2BL (EG360020)

(Fig.18)



(Fig.19)

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12 Disassembling the Keyboard

※ After inserting a round stick or similar material between the frame and key, remove the circuit boards. (Fig. 20)

12-1 Take the keyboard unit out of the main unit. (See procedure 7.)

12-2 Remove the AEXL88 L circuit board by removing the seven (7) screws marked as [260A]. (Fig. 21)

12-3 Remove the AEXL88 H circuit board by removing the ten (10) screws marked as [260B]. (Fig. 21)

※ Keys can be removed without removing the circuit boards.

12-4 Insert a thin plate between white keys near the triangle mark around the fulcrum of the key and press the stopper marked [A] down to remove the key. (Fig. 20)

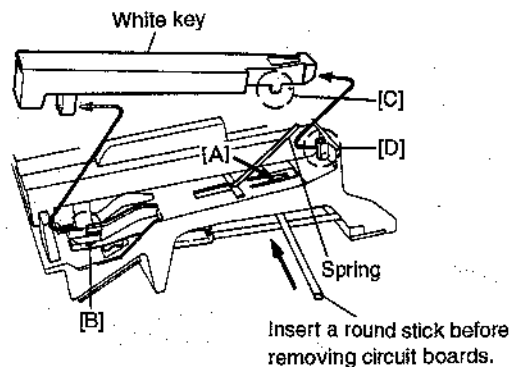
※ Take care not to damage the key spring when removing a key.

※ A black key can be removed after both adjacent white keys have been removed.

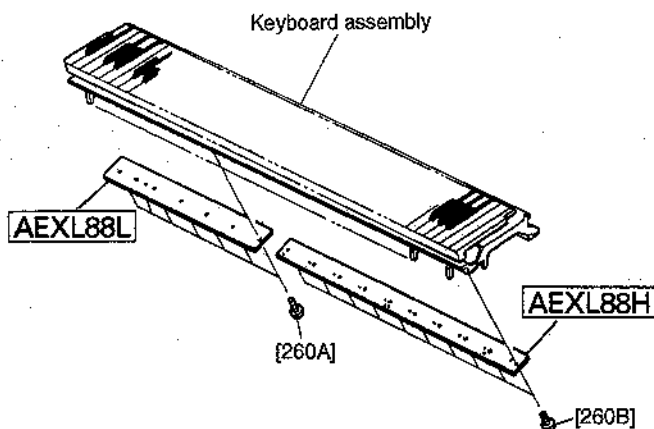
12-5 After a key has been removed, push the key spring down once to take it out of the hook. (Fig. 22)

Place the keyboard unit upside down and peel back the stopper, then the hammer of the white key which has been removed can be removed. (Fig. 23)

※ The hammer of a black key can be removed in the same manner.

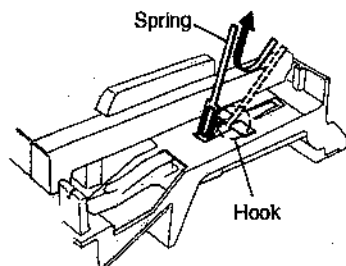


(Fig.20)

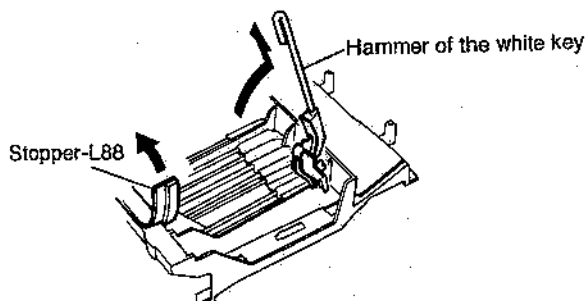


[260]: Bind Head Tapping Screw-P 3.0X10 MFZN2Y (EP600270)

(Fig.21)



(Fig.22)



(Fig.23)

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13 Assembling the Keyboard

13-1 Place the keyboard unit upside down and insert a hammer assembly to the frame and put the stopper on. (Fig. 24)

※ There are four (4) kinds of hammers that differ in weight.

13-2 Place the keyboard unit right side up and fix a key spring at the frame while setting it at the slit and pushing it down once. (Fig. 24 and 25)

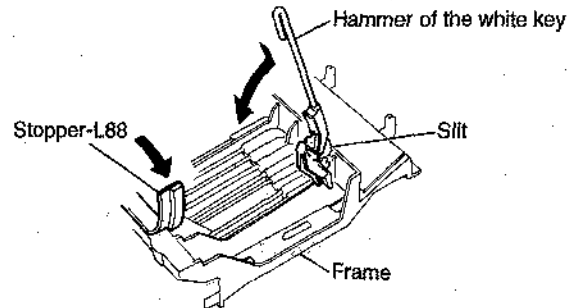
※ Be careful of the direction of the spring.

13-3 After a key has been fit to the part [F] and key guide, make sure that the spring is fixed to the key and then press the part [E] of the key down. (Fig. 26)

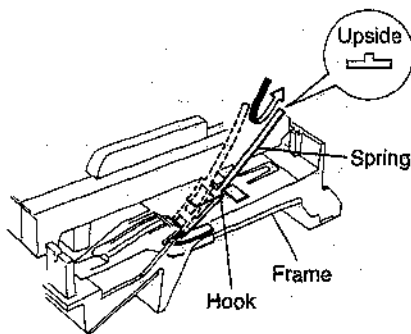
13-4 Tighten the seven (7) screws marked [260A] to fix the AEXL88 L circuit board. (Fig. 21)

13-5 Tighten the ten (10) screws marked [260B] to fix the AEXL88 H circuit board. (Fig. 21)

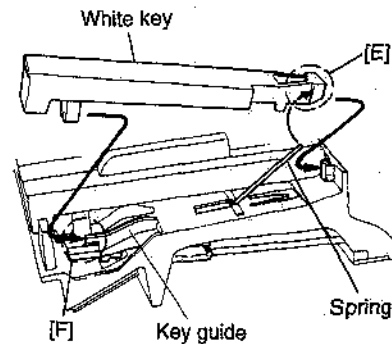
※ Set the slits of the rubber contact at the marks of the frame.



(Fig.24)



(Fig.25)



(Fig.26)

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■ LSI PIN DESCRIPTION

● PCM1702U (XP551A00) DAC (Digital to Analog Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DATA	I	Data input	11	+VCC		Power supply (+5 V)
2	CLK	I	Clock	12	BPO		Bipolar de-couple
3	NC			13	NC		
4	+VDD		Power supply (+5 V)	14	IOUT	O	Output current
5	D.GND		Digital ground	15	A.GND		Analog ground
6	-VDD		Power supply (-5 V)	16	A.GND		Analog ground
7	LE	I	Latch enable	17	SERV		Servo de-couple
8	NC			18	NC		
9	NC			19	REF		Reference de-couple
10	NC			20	-VCC		Power supply (-5 V)

● HD63266FP (XI939A00) FDC (Floppy Disk Controller)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	8"/5"	I	Data transmission speed	33	/TRKO	I	Track 00 signal
2	XTALSET	I	Clock select	34	/INDEX	I	Index signal
3	/RESET	I	Rest	35	/RDATA	I	Read data input from FDD
4	E//RD	I	Enable/Read	36	XTAL2		Clock
5	RW//WR	I	Read/write/Write	37	EXTAL2		
6	/CS	I	Chip select	38	NC		
7	/DACK	I	DMA acknowledge	39	XTAL1		Clock
8	RS0	I	Register select	40	EXTAL1		
9	RS1	I		41	VSS4		Ground
10	VSS1		Ground	42	VSS5		
11	VSS2			43	NC		
12	D0	I/O		44	VCC2		Power supply
13	D1	I/O		45	VCC3		
14	D2	I/O		46	VCC4		
15	D3	I/O	Data bus	47	/WGATE	O	Write control
16	D4	I/O		48	/WDATA	O	Write data to FDD
17	D5	I/O		49	VSS6		Ground
18	D6	I/O		50	/STEP	O	Step signal to control head of FDD
19	D7	I/O		51	/HDIR	O	Direction
20	/DREQ	O	DMA request	52	/HLOAD	O	Head load
21	/IRQ	O	Interrupt request	53	/HSEL	O	Head select
22	/DEND	I	Data end	54	VSS7		Ground
23	VSS3		Ground	55	/DS0	O	
24	1/2 EX1			56	/DS1	O	Drive select
25	VCC1		Power supply	57	/DS2	O	
26	NUM1	I		58	/DS3	O	
27	NUM3	I		59	VSS8		Ground
28	IFS	I	Host interface select	60	/MON0	O	
29	SFORM	I	Format data	61	/MON1	O	Motor on
30	/INP	I	Index pulse	62	/MON2	O	
31	/READY	I	Ready from FDD	63	/MON3	O	
32	/WPRT	I	Write control signal	64	VSS9		Ground

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● YMZ702-D (XR632A00) KSN2 (Key Scanner)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	BK5	O	Key block (open drain)	21	GND		Ground
2	BK4	O		22	VDD		Power supply
3	BK3	O		23	SO	O	Serial data
4	BK2	O		24	ACK	I	Acknowledge/Mode select
5	BK1	O		25	XCK	I	Clock for serial data
6	BK0	O	1st make contact	26	/IC	I	Initial clear
7	MK15	I		27	TST1	I	Test mode (L, L: normal mode, others: test)
8	MK14	I		28	TST2	I	
9	MK13	I		29	XCKINH	I	Inhibit of serial clock
10	MK12	I		30	BK14	O	Key block (open drain)
11	MK11	I	2nd make contact	31	BK13	O	
12	MK10	I		32	BK12	O	
13	MK05	I		33	BK11	O	
14	MK04	I		34	BK10	O	
15	MK03	I	Crystal osc. input (4 MHz)	35	BK9	O	Ground Power supply
16	MK02	I		36	BK8	O	
17	MK01	I		37	BK7	O	
18	MK00	I		38	BK6	O	
19	XIN	I		39	GND		
20	XOUT	O	Crystal osc. output (4 MHz)	40	VDD		

● MN101C027 (XS711100) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	S1	I	Switch matrix data	33	S12	I	Switch matrix data
2	S2	I		34	S13	I	
3	S3	I		35	S14	I	
4	S4	I		36	TXD	O	MIDI transmit data
5	S5	I		37	S15	I	Switch matrix data
6	VREF+	-	Power supply (+5V, analog)	38	S16	I	
7	VDD	-	Power supply (+5V)	39	S17	I	
8	OSC2	O	Crystal oscillator (8MHz)	40	S18	I	LED drive data
9	OSC1	I	Crystal oscillator (8MHz)	41	L16	O	
10	VSS	-	Ground	42	L17	O	
11	XI	I	Not used	43	L18	O	
12	XO	O	Not used	44	L19	O	
13	MMOD	I	Memory mode select (Grounded)	45	L8	O	LED and switch drive data
14	RD0	O	Rotary encoder data	46	L9	O	
15	RXD	I	MIDI receive data	47	L10	O	
16	D0	O	LED and switch drive data	48	L11	O	
17	D1	O		49	L12	O	
18	D2	O		50	L13	O	
19	D3	O		51	L14	O	LED and switch drive data
20	D4	O		52	L15	O	
21	/RST	I	Reset	53	L7	O	
22	D5	O	LED and switch drive data	54	L6	O	
23	D6	O		55	L5	O	
24	D7	O		56	L4	O	
25	D8	O		57	L3	O	
26	D9	O		58	L2	O	Grounded Analog input Analog input Switch matrix data
27	S6	I	Switch matrix data	59	L1	O	
28	S7	I		60	L0	O	
29	S8	I		61	VREF	-	
30	S9	I		62	AD0	I	
31	S10	I		63	AD1	I	
32	S11	I		64	S0	I	

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● TC203C06AF-001 (XS724A00) SWP00M (AWM Tone Generator) Standard Wave Processor

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vss	-	Ground	51	MD2	I	Wave memory data bus
2	/IC	I	Initial clear	52	MD6	I	
3	/CS	O	Chip select	53	MD1	I	
4	/WR	O	Write strobe	54	MD7	I	
5	Vdd (3.3V)	-	DC +3.3V supply	55	Vdd (3.3V)	-	DC +3.3V supply
6	/RD	I	Read control	56	MD0	I	Wave memory data bus
7	CA10	I	CPU address bus	57	MA0	O	Wave memory address bus
8	CA9	I					
9	CA8	I					
10	CA7	I					
11	CA6	I					
12	CA5	I					
13	CA4	I					
14	CA3	I	Ground	64	MA14	O	Ground
15	Vss	-					
16	CA2	I					
17	CA1	I					
18	CA0	I	CPU address bus	67	MA13	O	Wave memory address bus
19	CD7	I/O					
20	CD6	I/O					
21	CD5	I/O	CPU data bus	71	MA11	O	Wave memory address bus
22	CD4	I/O					
23	CD3	I/O					
24	CD2	I/O					
25	CD1	I/O					
26	CD0	I/O	DRAM address bus	74	Vss	-	Ground
27	RA8	O					
28	RA7	O					
29	RA6	O					
30	VddS (5V)	-		DC +5V supply	75	MA8	
31	RA5	O	DRAM address bus	76	MA9	O	
32	Vss	-	Ground	77	MA18	O	
33	RA4	O	DRAM address bus	78	MA20	O	
34	RA3	O					
35	RA2	O					
36	RA1	O					
37	RA0	O					
38	/RAS	O	Row address strobe	79	MA19	O	DC +5V supply
39	/RWE	O	DRAM write enable	80	VddS (5V)	-	
40	Vss	-	Ground	81	MA21	O	
41	VddS (5V)	-	DC +5V supply	82	MA22	O	
42	RD3	I/O	DRAM data bus	83	MA23	O	
43	RD2	I/O					
44	RD1	I/O					
45	RD0	I/O					
46	/CAS	O	Column address strobe	84	DACL	O	DAC output (L or L/R)
47	MD4	I	Wave memory data bus	85	DACR	O	DAC output R
48	Vss	-	Ground	86	BCLK	O	Bit clock
49	MD3	I	Wave memory data bus	87	WCLK	O	Word clock
50	MD5	I	Wave memory data bus	88	SYSCLK	O	1/2 master clock
				89	NSYSON	I	NSYS expansion enable
				90	Vss	-	Ground
				91	Vdd (3.3V)	-	DC +3.3V supply
				92	TESTON	I	Test pin
				93	ACIN	I	Test pin
				94	DCTEST	I	Test pin
				95	SYI	I	Synch. signal
				96	MCLKI	I	Master clock input
				97	MCLKO	O	Clock output
				98	Vss	-	Ground
				99	XOUT	O	Crystal oscillator
				100	XIN	I	Crystal oscillator

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● **μPD71051GU-10-E2 (XS762A00) Serial Controller**

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	D2	I/O	Data bus	15	TxRDY	O	Transmit ready
2	D3	I/O	Data bus	16	SYNC/BRK	I/O	Receiver/Break
3	RxD	I	Receive data	17	/CTS	I	MODEM control
4	GND	-	Ground	18	TxEMP	O	Transmitter empty
5	D4	I/O	Data bus	19	TxD	O	Transmit data
6	D5	I/O		20	CLK	I	Main clock
7	D6	I/O		21	RESET	I	Reset
8	D7	I/O		22	/DSR	I	MODEM control
9	/TxCLK	I	Transmitter clock	23	/RTS	O	
10	/WR	I	Write control	24	/DTR	O	
11	/CS	I	Chip select	25	/RxCLK	I	Receive clock
12	C/D	I	Read control	26	Vdd	-	Power supply (+5V)
13	/RD	I		27	D0	I/O	Data bus
14	RxRDY	O		28	D1	I/O	Data bus

● **SED1335F0B (XQ595A00) LCDC (LCD Controller)**

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VA5	O	VRAM address bus	31	XD2	O	Data bus output for 4 bit dot
2	VA4	O		32	XD1	O	
3	VA3	O		33	XD0	O	
4	VA2	O		34	XECL	O	S driver enable, chain clock
5	VA1	O	VRAM read/write	35	XSCL	O	Data bus shift clock
6	VA0	O		36	Vss	-	Ground
7	/VWR	O	Memory control	37	LP	O	X driver latch pulse
8	/VCE	O	Not used	38	WF	O	Frame signal for X/Y driver
9	/VRD	-	Initial clear	39	YDIS	O	Power down signal for displaying off mode
10	/RES	I	Not used	40	YD	O	Scan start signal
11	NC	-	Not used	41	YSCL	O	Scan shift clock
12	NC	-	Read strobe	42	VD7	I/O	VRAM data bus
13	/RD	I	Write strobe	43	VD6	I/O	
14	/WR	I	Bus select	44	VD5	I/O	
15	SEL2	I	Bus select	45	VD4	I/O	
16	SEL1	I	Clock	46	VD3	I/O	
17	OSC1	I	Clock	47	VD2	I/O	
18	OSC2	O	Chip select	48	VD1	I/O	
19	/CS	I	Data mode select	49	VD0	I/O	
20	A0	I	Power supply	50	VA15	O	VRAM address bus
21	Vdd	-	Data bus	51	VA14	O	
22	D0	I/O		52	VA13	O	
23	D1	I/O		53	VA12	O	
24	D2	I/O		54	VA11	O	
25	D3	I/O		55	VA10	O	
26	D4	I/O		56	VA9	O	
27	D5	I/O		57	VA8	O	
28	D6	I/O		58	VA7	O	
29	D7	I/O	Data bus output for 4 bit dot	59	VA6	O	
30	XD3	O		60	NC	-	Not used

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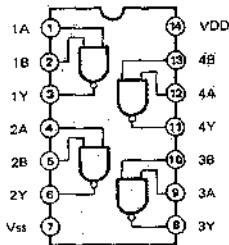
● HD6437043E00F (XS936A00) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	/WRHH	O	HH write	73	D15	I/O	Data bus
2	DACK0	O	DMA transfer strobe	74	D14	I/O	
3	/WRHL	O	HL write	75	D13	I/O	
4	/CASHH	O	HH Column address strobe	76	D12	I/O	
5	PE15	I/O	Port E	77	VCC	I	Power supply
6	VSS	I	Ground	78	D11	I/O	Data bus
7	A0	O	Address bus	79	VSS	I	Ground
8	A1	O		80	D10	I/O	Data bus
9	A2	O		81	D9	I/O	
10	A3	O		82	D8	I/O	
11	A4	O	Power supply	83	D7	I/O	Data bus
12	VCC	I		84	D6	I/O	
13	A5	O		85	VCC	I	
14	VSS	I		86	D5	I/O	Power supply
15	A6	O	Address bus	87	VSS	I	Data bus
16	A7	O	Ground	88	D4	I/O	Ground
17	A8	O		89	D3	I/O	Data bus
18	A9	O		90	D2	I/O	
19	A10	O		91	D1	I/O	
20	A11	O	Address bus	92	D0	I/O	
21	A12	O		93	VSS	I	Ground
22	A13	O		94	XTAL	I	Crystal oscillator
23	A14	O		95	MD3	I	Mode select
24	A15	O	Power supply	96	EXTAL	I	Crystal oscillator
25	A16	O		97	MD2	I	Mode select
26	VCC	I		98	NMI	I	Non-maskable interrupt
27	A17	O		99	VCC	I	Power supply
28	VSS	I	Ground	100	PA16	I/O	Port A
29	/CASHL	O	HL Column address strobe	101	PA17	I/O	Port A
30	PA19	I/O	Port A	102	MD1	I	Mode select
31	/RAS	O	Row address strobe	103	MD0	I	Mode select
32	/CASL	O	Column address strobe (low)	104	PLLVC	I	PLL Power supply
33	PA18	I/O	Port A	105	PLLCAP	I	PLL capacitor
34	/CASH	O	Column address strobe (high)	106	PLLVS	I	PLL Ground
35	VSS	I	Ground	107	PA15	I/O	Port A
36	RDWR	O	DRAM read/write	108	/RES	I	Reset
37	A18	O	Address bus	109	/DREQ0	I	DMA transfer request
38	A19	O		110	TIOC0B	I/O	MTU input capture/output compare (ch0)
39	A20	O		111	PE2	I/O	Port E
40	VCC	I		112	VCC	I	Power supply
41	A21	O	Address bus	113	PE3	I/O	Port E
42	VSS	I	Ground	114	PE4	I/O	
43	/RD	O	Read	115	PE5	I/O	
44	/WDTOVF	O	Watch dog timer overflow	116	PE6	I/O	
45	D31	I/O	Data bus	117	VSS	I	Ground
46	D30	I/O	Data bus	118	AN0	I	Analog input
47	/WRH	O	High write	119	AN1	I	
48	/WRL	O	Low write	120	AN2	I	
49	/CS1	O	Chip select	121	AN3	I	
50	/CS0	O	Chip select	122	PF4	I/O	Port F
51	/IRQ3	I	Interrupt request	123	PF5	I/O	Port F
52	/IRQ2	I	Interrupt request	124	AVSS	I	Analog ground
53	/CS3	O	Chip select	125	PF6	I/O	Port F
54	/CS2	O	Chip select	126	PF7	I/O	Port F
55	VSS	I	Ground	127	AVREF	I	Analog reference voltage
56	D29	I/O	Data bus	128	AVCC	I	Analog power supply
57	D28	I/O		129	VSS	I	Ground
58	D27	I/O		130	RxD0	I	Receive data
59	D26	I/O		131	TxD0	O	Transmit data
60	D25	I/O	Ground	132	/IRQ1	I	Interrupt request
61	VSS	I		133	RxD1	I	Receive data
62	D24	I/O		134	PA4	I/O	Port A
63	VCC	I		135	VCC	I	Power supply
64	D23	I/O	Data bus	136	SCK1	I/O	Serial clock
65	D22	I/O		137	PE7	I/O	Port E
66	D21	I/O		138	PE8	I/O	
67	D20	I/O		139	PE9	I/O	
68	D19	I/O	Ground	140	PE10	I/O	
69	D18	I/O		141	VSS	I	Ground
70	D17	I/O		142	TIOC3D	I/O	MTU input capture/output compare (ch 3)
71	VSS	I	Ground	143	PE12	I/O	Port E
72	D16	I/O	Data bus	144	PE13	I/O	Port E

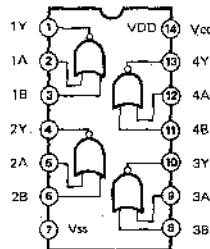
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■ IC BLOCK DIAGRAM

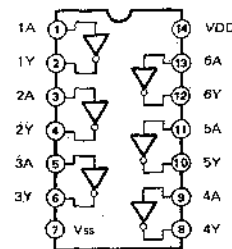
- **SN74HC00NSR(XE165A00)**
Quad 2 Input NAND



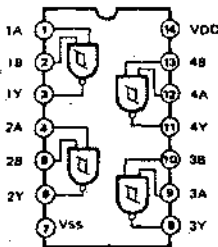
- **SN74HC02NSR(XC724A00)**
Quad 2 Input NOR



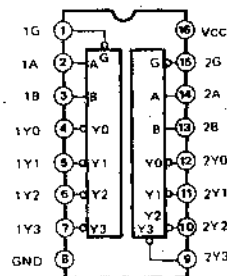
- **SN74HCU04N(IG142250)**
Hex Inverter



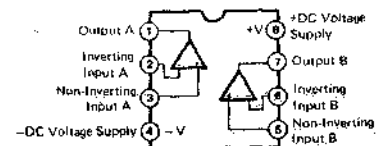
- **SN74HC132NS-R(XL112A00)**
Quad 2 Input NAND Schmitt Triggers



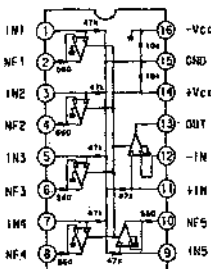
- **SN74HC139NSR(XC727A00)**
Dual 2 to 4 Demultiplexer



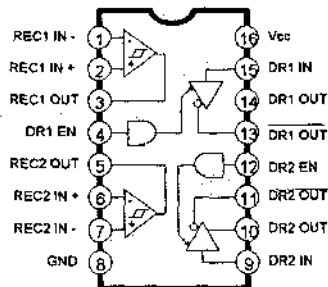
- **μPC4570G2(XF291A00)**
Dual Operational Amplifier



- **M5227FP(XL252A00)**
5-Band Graphic Equalizer

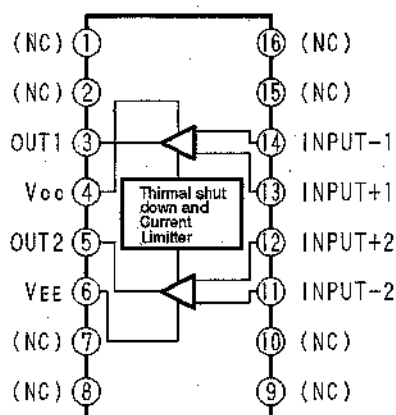


- **MC34051P(XP094A00)**
Dual EIA-422/423 Transceiver

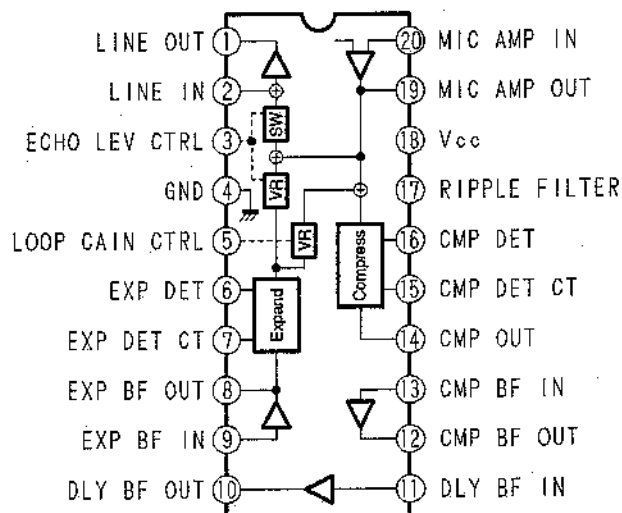


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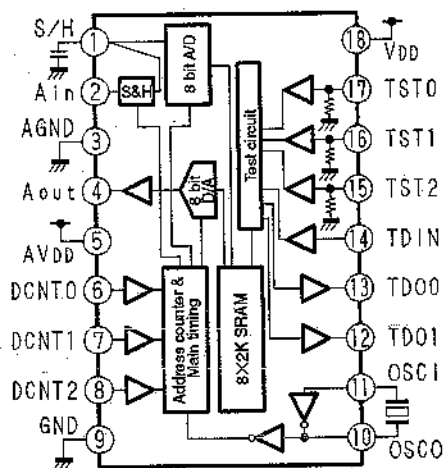
● **LA6517M-TE-R(XT131A00)**
Dual Operational Amplifier



● **BA7725FS-E2(XT129A00)**
Comparder



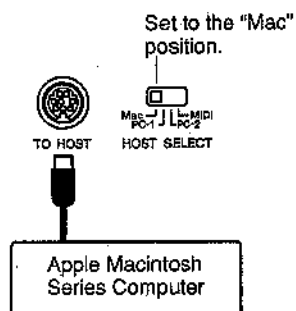
● **BU9252F-E2(XT130A00)**
Digital Delay



■ CONNECTING CABLES

• Connecting to an Apple Macintosh Series Computer

Apple Macintosh Peripheral cable (M0197). Maximum length 2 meters
System Peripheral cable - 8 (YAMAHA CCJ-MAC)

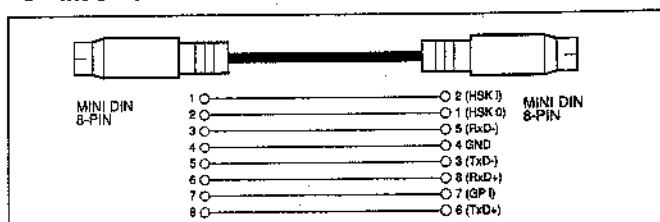


• Connector Pin Numbers

MINI DIN 8-PIN



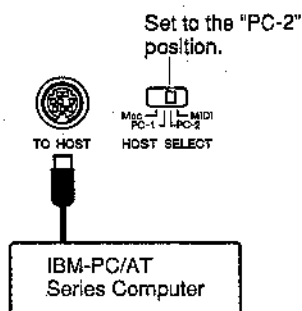
• "Mac" Cable Connections



- 8-pin system peripheral cable.
- Data transfer rate: 31,250 bps.

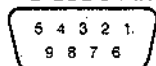
• Connecting to an IBM-PC/AT Series Computer

mini DIN 8-pin → D-SUB 9-pin (YAMAHA CCJ-PC2)

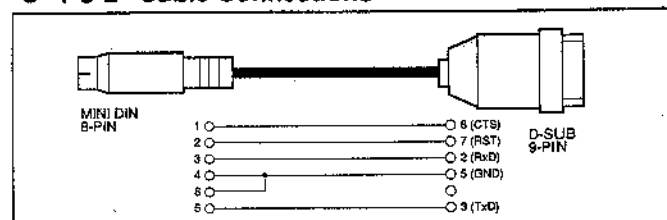


• Connector Pin Numbers

D-SUB 9-PIN



• "PC-2" Cable Connections

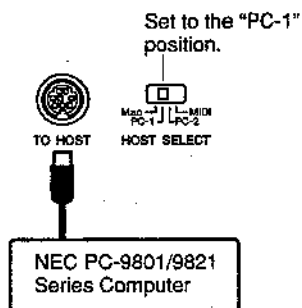


- 8-pin mini DIN → 9-pin D-SUB cable. Use a "PC-1" type cable if your computer uses a 25-pin serial port.
- Data transfer rate: 38,400 bps.

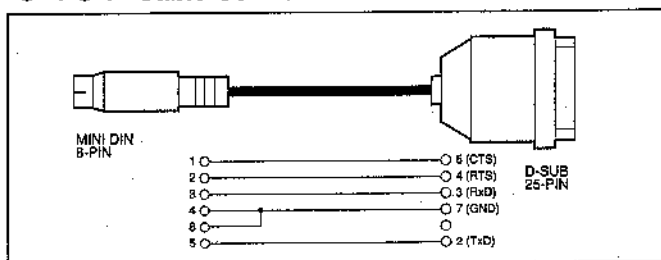
VP-92

• Connecting to an NEC PC-9801/9821 Series Computer

mini DIN 8-pin → D-SUB 25-pin (YAMAHA CCJ-PC1)

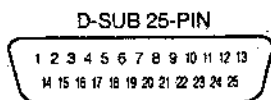


• "PC-1" Cable Connections



- 8-pin mini DIN → 25-pin D-SUB cable. Use a "PC-2" type cable if your computer uses a 9-pin serial port.
- Data transfer rate: 31,250 bps.

• Connector Pin Numbers



Trademarks

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- PC-9801/9821 is a trademark of NEC Corporation.
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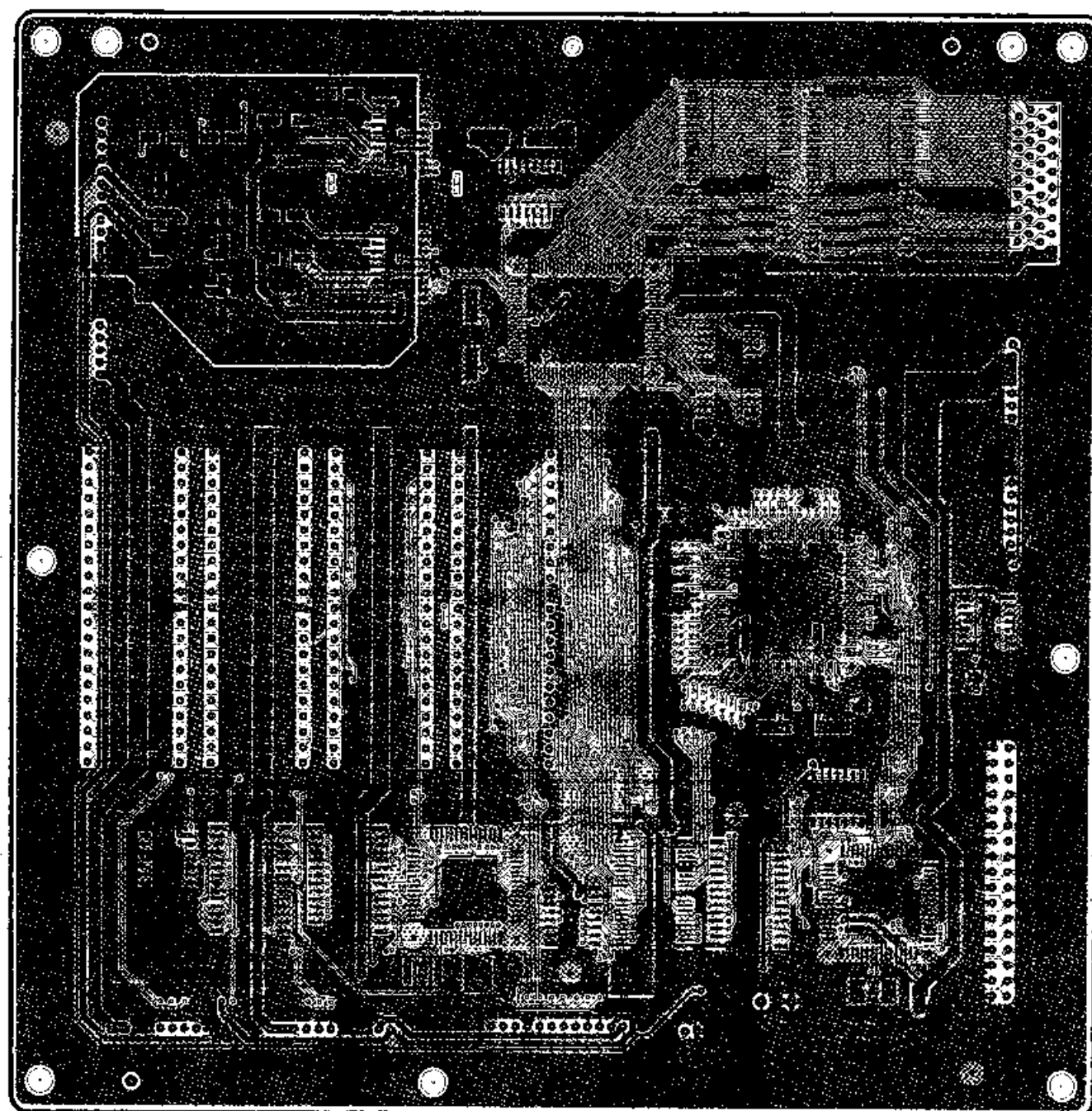
CVP-92

CVP-92

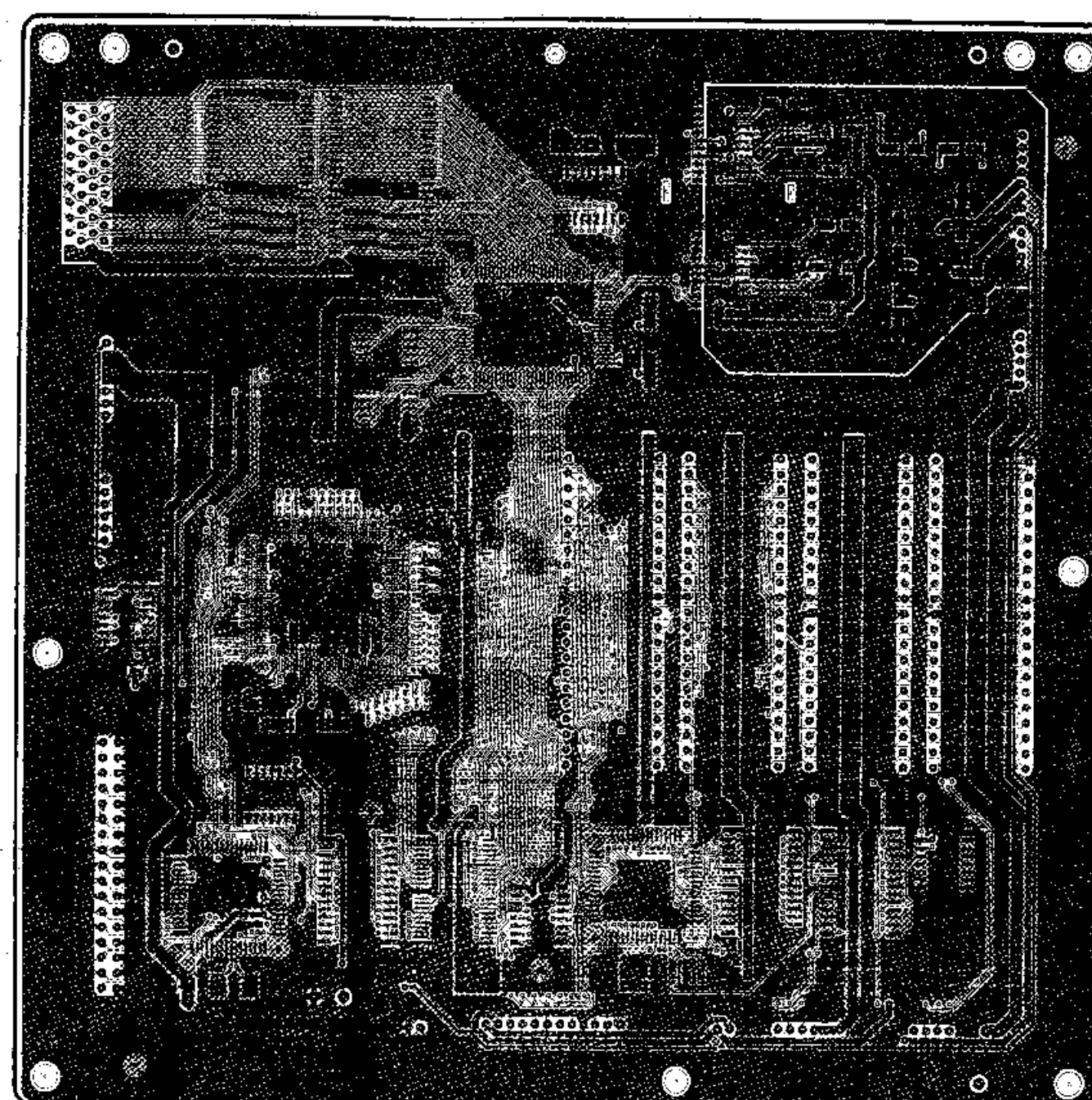
CIRCUIT BOARDS

DM Circuit Board

DM Circuit Board



Component side



Pattern side

Notes)

Cm

1. IC

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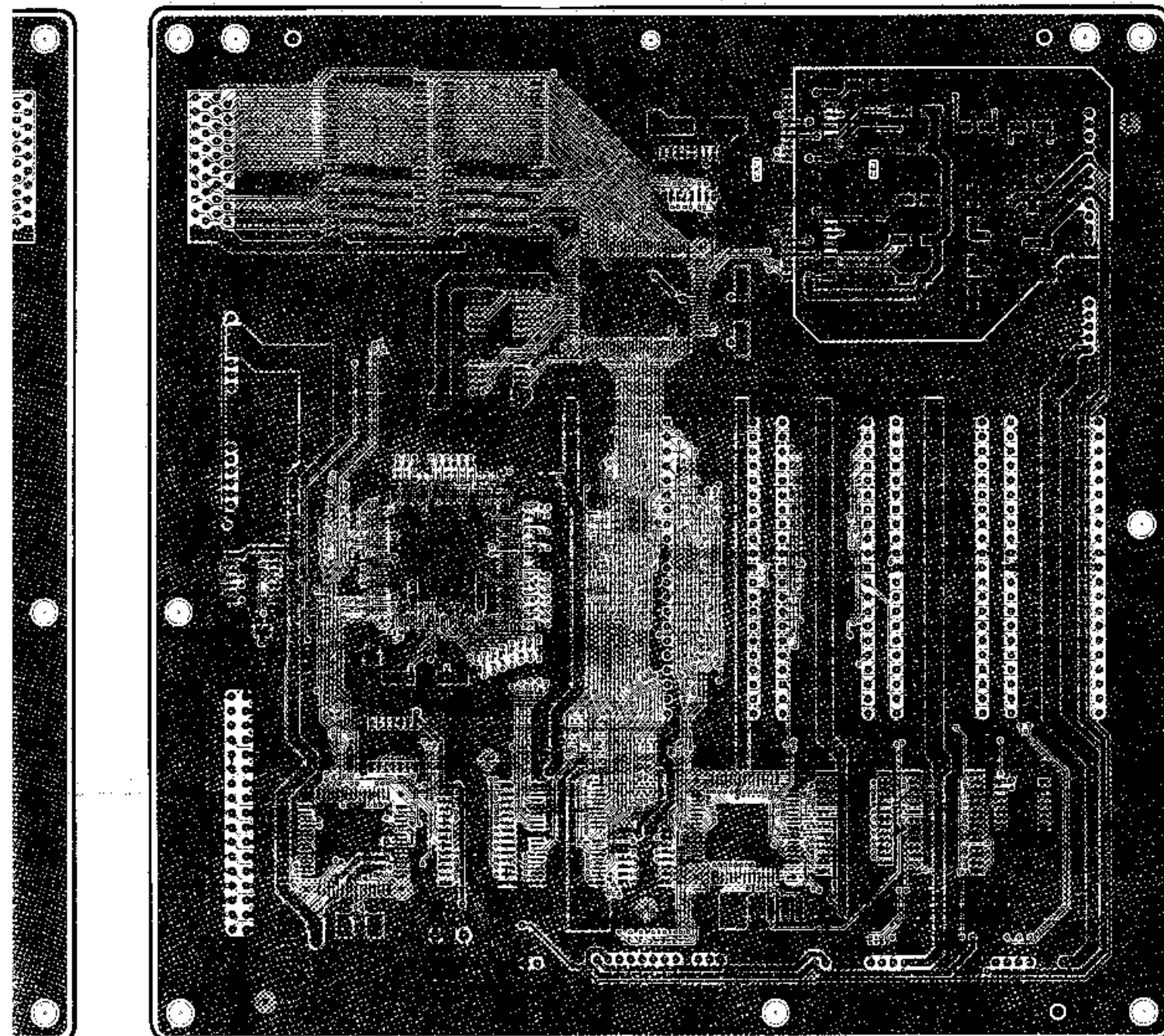
IC

IC

IC

IC

• DM Circuit Board



Pattern side

at side

Notes)

Circuit Board: DM (VV516000) XS780B0

1. IC

IC100: HD6437043E00F (XS936A00) CPU
 IC190: SN74HC132NS-R (XL112A00) NAND
 IC200: TC203C080AF-001 (XS724A00) SWP00M
 IC220: LH64256BK-70 (XS507A00) DRAM 256K or
 LH64256CK-70 (XS915A00) DRAM 256K
 IC240: UPC2933T (XS516A00) REGULATOR 3.3V
 IC260: LHMV55ND (XS937100) WAVE 1, MASK ROM 32M
 IC270: LHMV75YD (XS938100) WAVE 2, MASK ROM 32M
 IC290: SN74HC139NSR (XC727A00) DECODER
 IC400: UPD71051GU-10-E2 (XS782A00) SERIAL CONTROLLER
 IC410: SN74HC02NSR (XC724A00) NOR
 IC500: KM416C256BLT-7 (XQ588A00) DRAM 4M or
 MSM44260CTP-7 (XS438A00) DRAM 4M or
 MSM44260CTP-7 (XS444A00) DRAM 4M
 IC510,620: MSM5256DFP-70LL (XN279C00) SRAM 256K
 IC515: SN74HC00NSR (XE165A00) NAND
 IC520: MAIN (XS944E00) MAIN L, EPROM 8M
 IC530: MAIN (XS945E00) MAIN H, EPROM 8M
 IC540: LH537U0Y (XS942100) MASK ROM 16M STILE 1
 IC550: LH538U0R (XS943100) MASK ROM 8M STILE 2
 IC560: HD74LVC139FP (XS048A00) DECODER
 IC600: SED1335F0B (XQ595A00) LCDC
 IC700: HD63268F (XG939A00) FDC
 IC800,900: PCM1702U (XP551A00) D/A CONVERTER
 IC820,920: UPC4570G2 (XF291A00) OP AMP
 IC840: NJM78L05UA (XJ598A00) REGULATOR 5V
 IC940: NJM79L05UA (XN086A00) REGULATOR -5V

2. Transistor

TR 190: 2SA1162 O.Y. (VJ927200)
 TR 191,630: 2SC2412K Q,R,S (VV556400)

3. Diode

D 190,510,511, 950: MA221 (VB493900)

4. Zener Diode

ZD 510: UDZ 5.6BTE-17.5 (VU172000)
 ZD 630: UDZ 12B TE-17.1 (VU172900)

5. Ceramic Capacitor-CH (chip)

C 001,050,100,150,190,200-202, 204-206,220,260,270,290,310, 320,330,400,410,450,455,500, 510,511,515,520,530,540,550, 560,600,620,650,660,700,701, 824,825,841,924,925,941,950: 0.0100 50V K (US064100)
 C 010,011: 27P 50V J (US061270)
 C 012,014,160, 161: 0.1000 16V Z (US135100)
 C 013: 470P 50V J (US062470)
 C 210,211,710, 711: 10P 50V D (US061100)
 C 311-313,321-324,331-334,451 -454,651-659: 100P 50V J (US062100)
 C 820,920: 2200P 50V K (US063220)

C 821,921: 1200P 50V K (US063120)
 C 822,922: 330P 50V J (US062330)

6. Electrolytic Cap. (chip)

C 051,151,191, 203,501,702: 10 16V (UF037100)
 C 240: 1 50V (UF066100)
 C 242,601,801, 840,842,901, 940,942: 100 16V (UF038100)
 C 350,351: 330 6.3V UUR0 (UF118330)
 C 800,900: 22 6.3V (UF017220)
 C 802,902: 47 6.3V (UF017470)

7. Electrolytic Cap.-BP (chip)

C 823,923: 0.47 50V (UF265470)

8. Super Capacitor

C 512: 0.100F 5.5V FYD0 (M055000)

9. Chip Inductance

L310,311,312, 313: 56U LEM2520 T 56 (VR243700)

10. Carbon Resistor (chip)

R 000-021,030,031,040-043, 050-054,100-131,170-173, 200,201,292,321-324,331- 334,410,451-453,511,560, 561,570-573,651-658,824, 924: 100 63M J (RD355100)
 R 032,033,044-049,055-058, 150-152,154-156,164,165, 174,176,177: 47K 63M J (RD357470)
 R 060,211: 680 63M J (RD355680)
 R 061: 3.3K 63M J (RD356330)
 R 062: 220 63M J (RD355220)
 R 063,251,253,999: 0 63M J (RD350000)
 R 153,163,193,196,630,631, 700,750,822,823,922,923: 10K 63M J (RD357100)
 R 160,161,172,195,701,751, 758,759,760: 1.0K 63M J (RD356100)
 R 162,194,196,950: 470K 63M J (RD358470)
 R 175: 1.5K 63M J (RD356150)
 R 190: 2.7K 63M J (RD356270)
 R 191: 8.2K 63M J (RD356820)
 R 192,197: 22K 63M J (RD357220)
 R 210: 1.0M 63M J (RD359100)
 R 510: 470.0 0.1 J (RD255470)
 R 752,753,754,755,756,757, 761: 330 63M J (RD355330)
 R 820,920: 5.6K 63M J (RD356560)
 R 821,921: 2.2K 63M J (RD356220)

11. Quartz Crystal Unit

XL 200: 33.8688M SMD-49 (VT685200)
 XL 100: 7M SMD-49 (VV762900)

12. Ceramic Resonator

CL 700: 16M CSACS16.00MX (VQ274900)
 CL 400: CSTCC4.00MG0H6-T (VV905100)

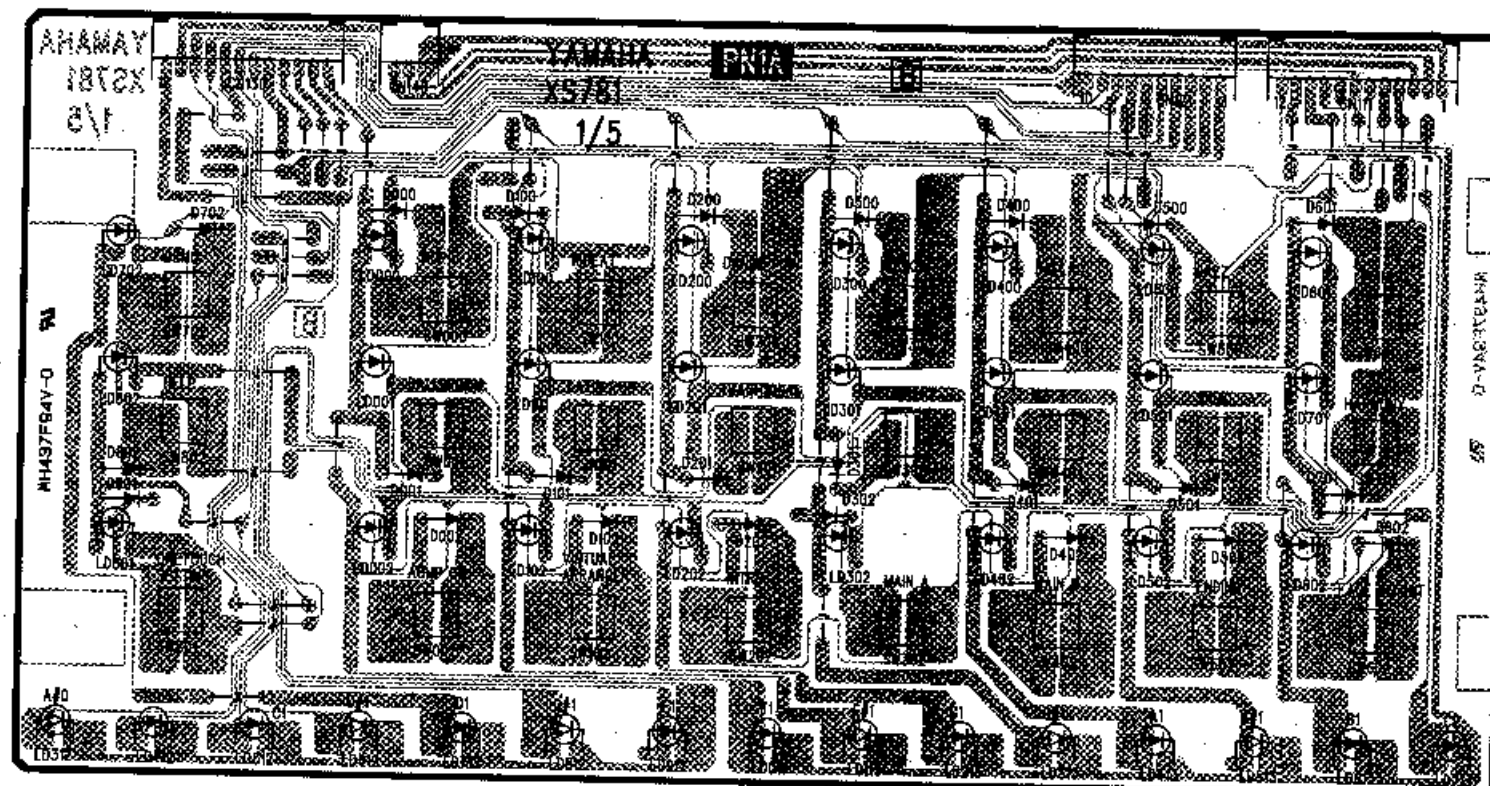
13. IC Socket

: DIOF-42CS-E (VK863100)

14. Connector

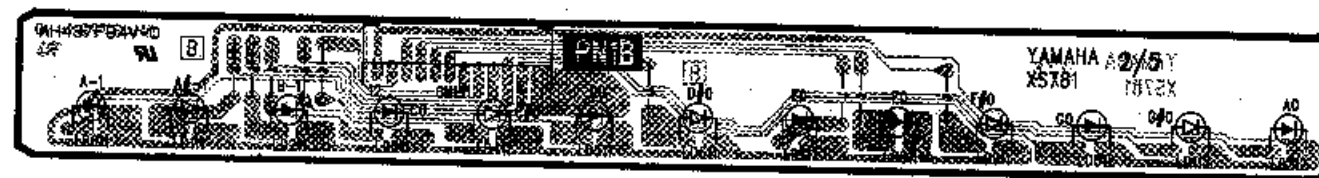
CN 310: PH-6P TE (VB390200) to pedal
 CN 320: PH-7P TE (VB390300) to JACK1-CN4
 CN 330: PH-8P TE (VB390400) to AEXL88 L-CN1
 CN 350: PH-7P TE (VB390300) to MA60-CN4
 CN 450: PH-11P TE (VB390700) to PN2-CN200
 CN 650: PH-12P TE (VB390800) to panel LCD
 CN 750: 34P TE (VQ391300) to FDD
 CN 850: PH-12P TE (VB390600) to EQ-CN2

• PN1A Circuit Board



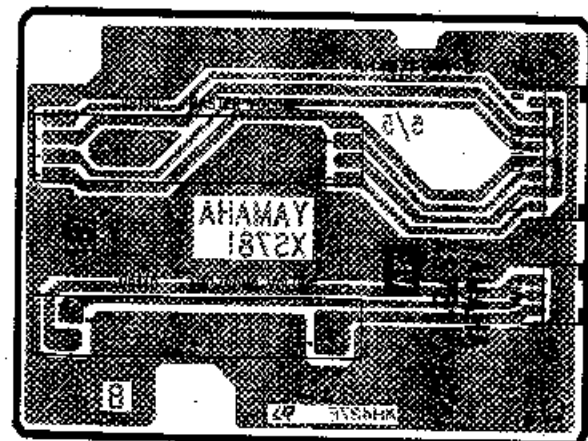
Component side

• PN1B Circuit Board



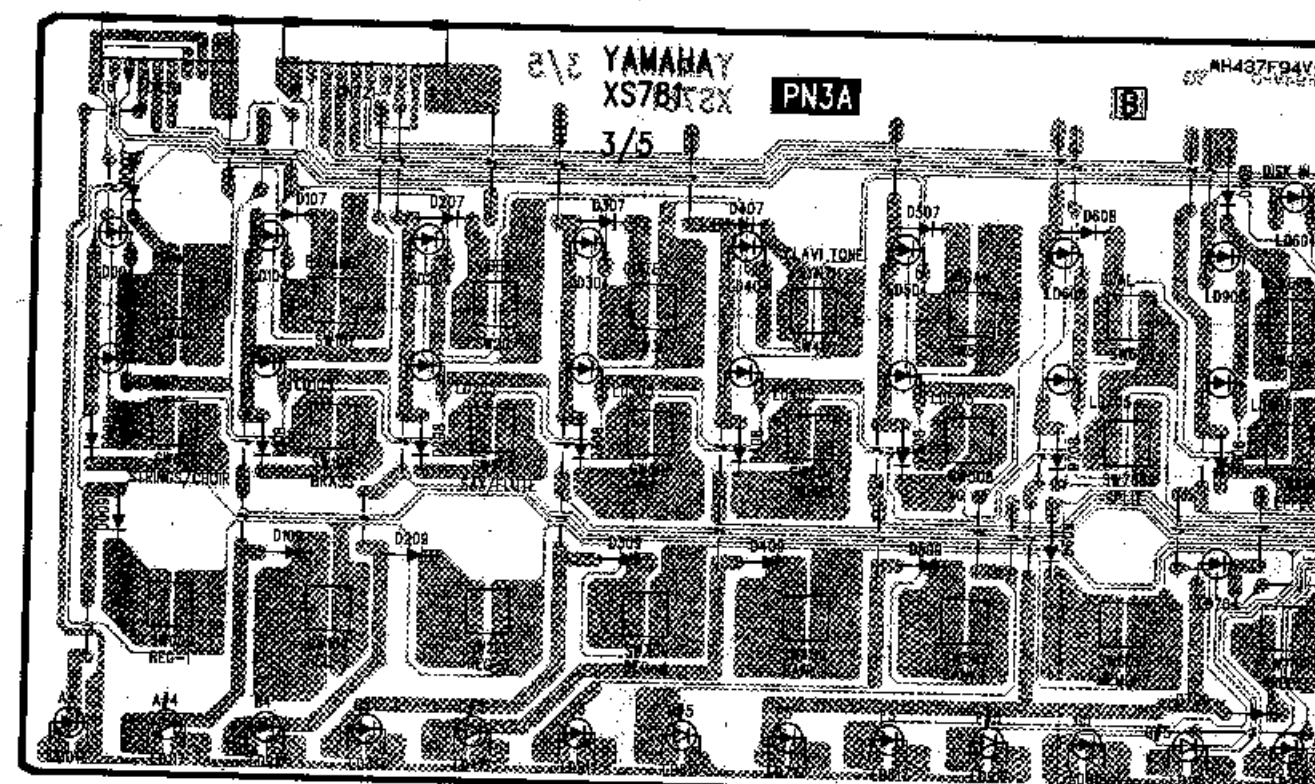
Component side

• MV Circuit Board



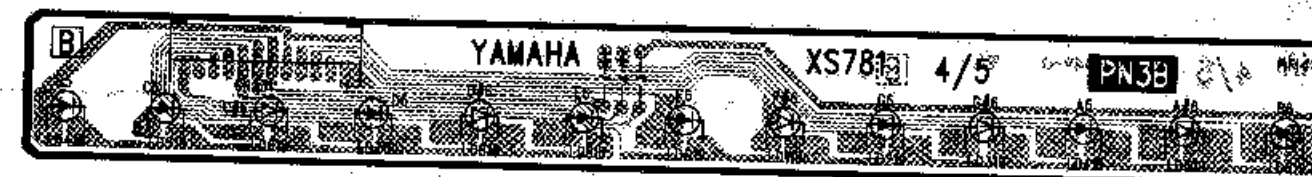
Component side

• PN3A Circuit Board



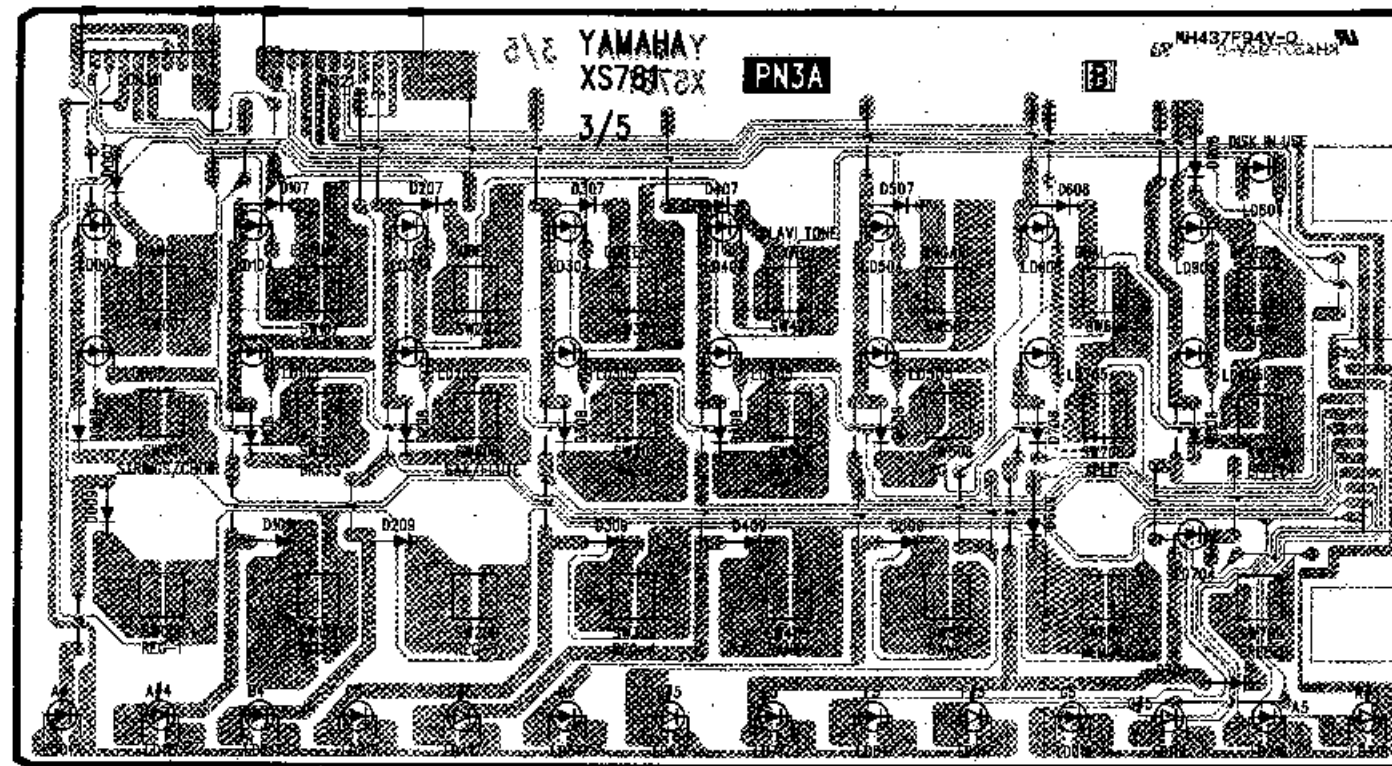
Component side

• PN3B Circuit Board



Component side

• PN3A Circuit Board



Component side

Component side

• PN3B Circuit Board



Component side

Notes)

Circuit Board: PN1A (VV516300) XS781B0
PN1B (VV516400) XS781B0
PN3A (VV516500) XS781B0
PN3B (VV516600) XS781B0
MV (VV516700) XS781B0

1. Diode

D 000-002,007-009,100-102,
107-109,200-202,207-209,
300-302,307-309,400-402,
407-409,500-502,507-509,
601,602,608,609,701,702,
708,709,801,802,808,908;
1SS133,1SS176 (VB941200)

2. LED

LD 011-013,017-019,211-213,
217-219,311,317,412,413,
418,419,511,512,517,518,
613,619,711-713,717-719,
811,817,912,918;
SEL4225R TP2 RE (VT392600)
LD 111-113,117-119,312,313,
318,319,411,417,513,519,
611,612,617,618,812,818,
911,917;
SEL4725Y TP2 YE (VT393400)
LD 000-002,004,005,100-102,
104,105,200-202,204,205,
300-302,304,305,400-402,
404,405,500-502,504,505,
601,602,604,605,701,702,
704,705,801,802,805,905;
SLZ-190B-17-T1 RE (VT425100)

3. Tact Switch

SW 000-002,007-009,100-102,
107-109,200-202,207-209,
300-302,307-309,400-402,
407-409,500-502,507-509,
601,602,608,609,701,702,
708,709,801,802,808,908;
SKHVBLO42A H=7 (VQ371700)

4. Slide Variable Resistor

VR 140: B 10.0K RS30111 (VK368700)
ABC/SONG VOLUME
VR 150: A 10.0K RS30112 (VK369000)
MASTER VOLUME

5. Connector Base Post

CN 111: PH-12P SE (VC166500) to PN2-
CN110
CN 121: PH-10P SE (VB858900) to PN2-
CN120
CN 130: PH-12P SE (VC166500) to PN1B-
CN131
CN 131: PH-12P SE (VC166500) to PN1A-
CN130
CN 140: PH-3P SE (VB858200) to MV-CN141
CN 141: PH-3P SE (VB858200) to PN1A-
CN140
CN 150: PH-8P SE (VB858700) to EQ-CN1
CN 311: PH-8P SE (VB858700) to PN2-CN310
CN 321: PH-10P SE (VB858900) to PN2-
CN320
CN 330: PH-12P SE (VC166500) to PN3B-
CN331
CN 331: PH-12P SE (VC166500) to PN3A-
CN330

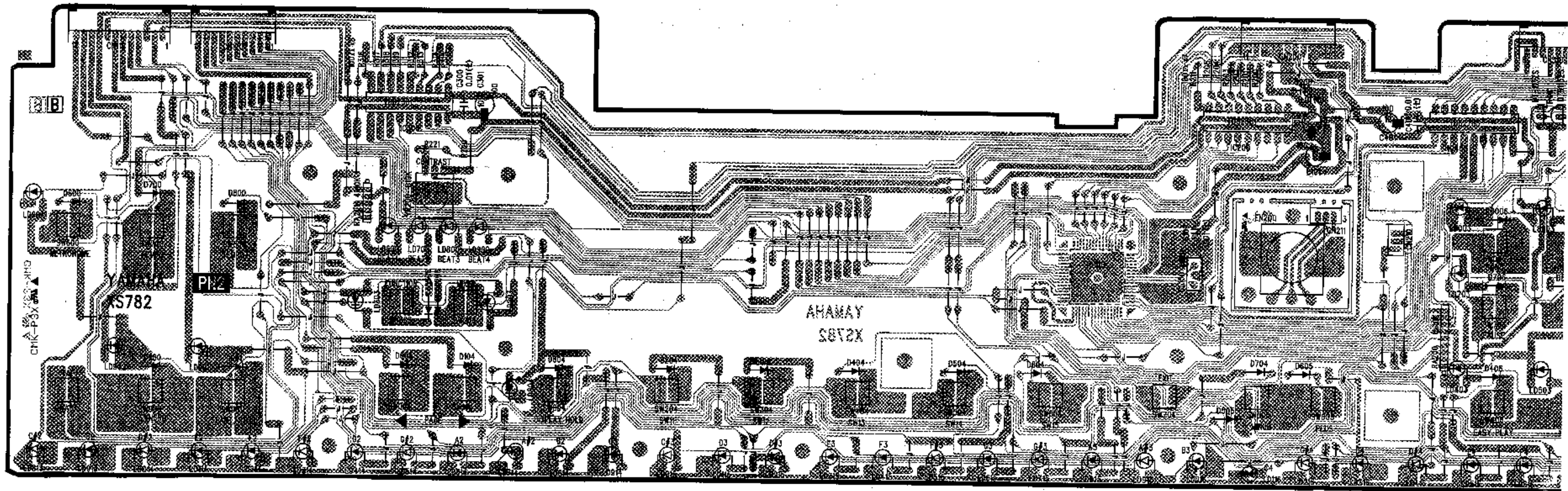
6. Jumper Wire

0.55 (VA078900)

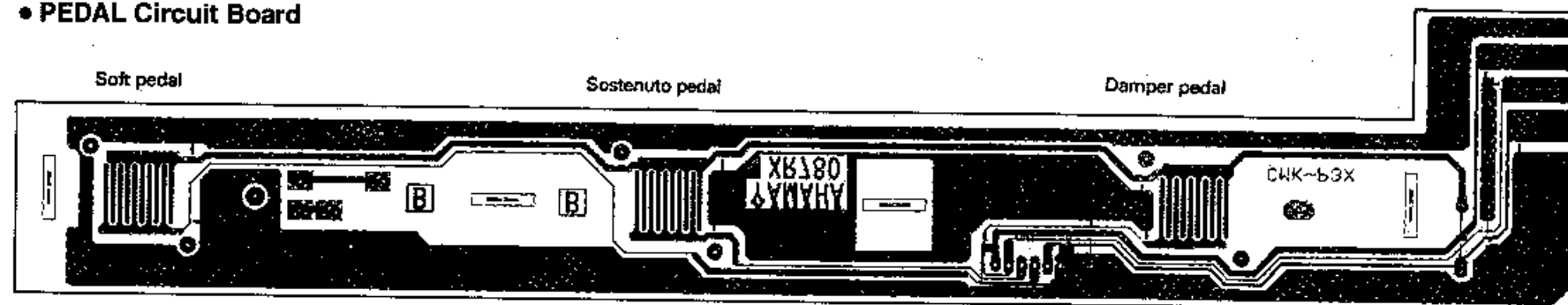
CVP-92

CVP-92

• PN2 Circuit Board



• PEDAL Circuit Board



Component side

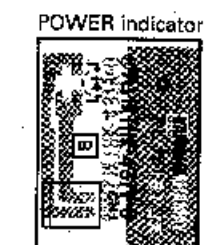
PN2 : 2NA-VV51620 Δ
 PEDAL : 2NA-VV69120
 PL : 2NA-VN63740 Δ

Notes)

- Circuit Board: PEDAL (VU466600) (XR780B0)
 1. Connector Base Post
 : PH- 6P TE (VB390200) to DM-CN310
 2. Jumper Wire
 : 0.55 (VD041700)

32

• PL Circuit Board

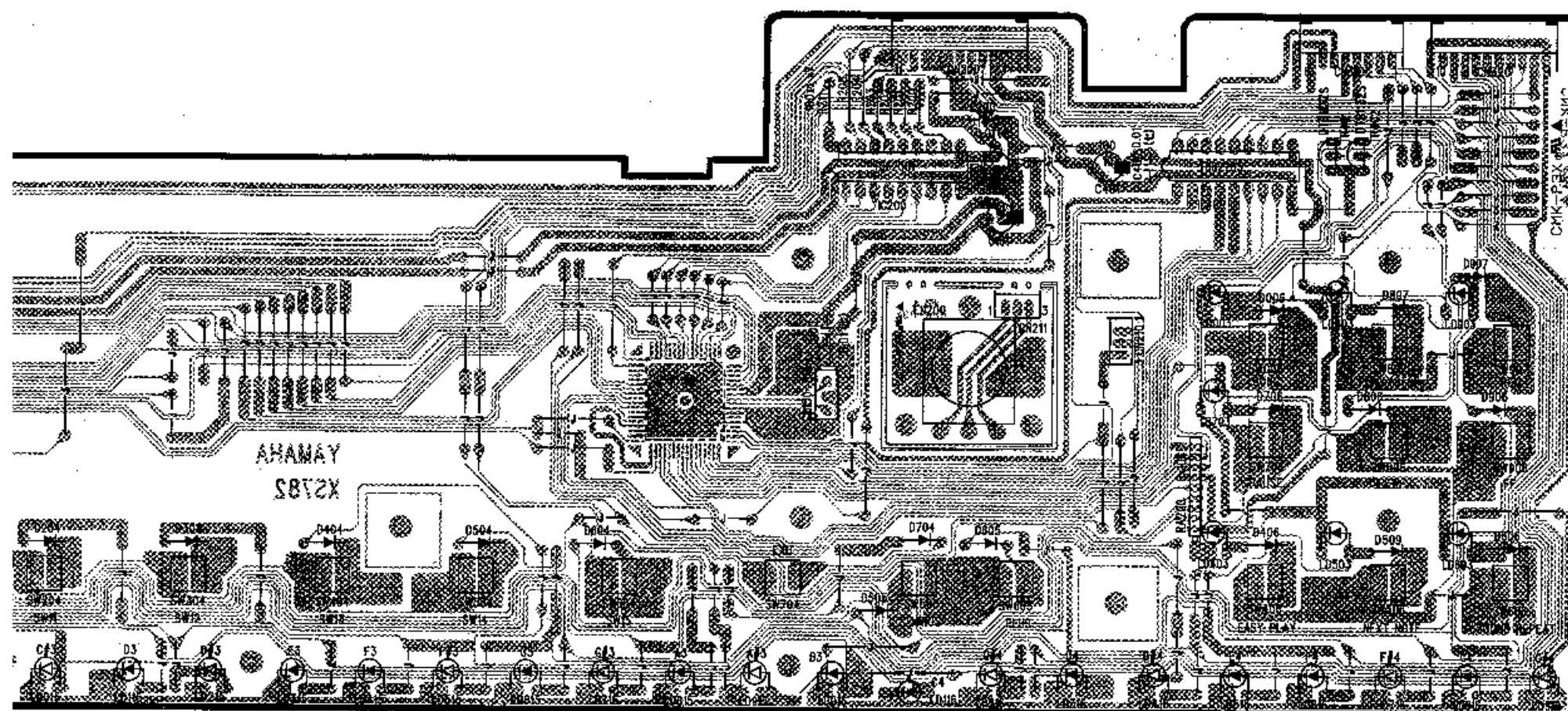


Component side

Notes)

- Circuit Board: PL (VN637600) (XL151B0)
 1. LED
 LED 1: SLZ-190B-03 RE (VD180000)
 2. Connector Base Post
 CN 1: PH- 2P SE (VB358100) to HP-CN2

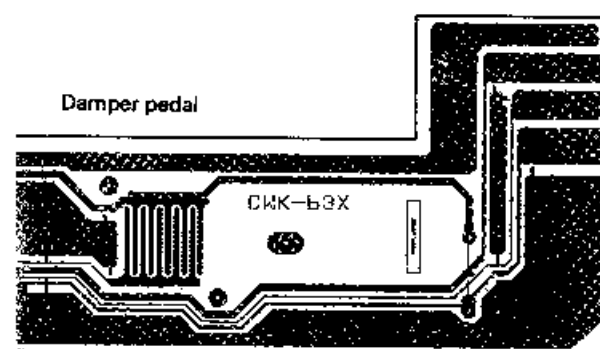
33



Component side

Notes)

- Circuit Board: PN2 (V515900) (XS782B0)
- IC**
IC100: MN101C027 (XS711100) CPU
 - Digital Transistor**
TR 401,402: DTB113ZS TP (VT817300)
 - Transistor Array**
IC200,300: TD62381P (VJ041400)
IC400: TD62785P SOURCE (VH885000)
 - Diode**
D 004,006,104,204,206,304,306,
404,406,504,506,606,600,804,
806,807,900,901,906,907:
1SS133,1SS176 (VB941200)
 - LED**
LD 016,114-116,214,315,316,414,
415,516,614-616,814-816,913,
914: SEL422SR TP2 RE (VT392600)
LD 014,015,215,216,314,416,514,
515,714,715,716,813,915,916:
SEL4725Y TP2 YE (VT393400)
LD 003,203,303,403,503,600,
603,703,803,804,901-904:
SLZ-190B-17-T1 RE (VT425100)
LD 700,800,900: SLZ-290B-17-T1 GR (VT425300)
 - Ceramic Capacitor-F**
C 100,200,300,
400: 0.0100 50V Z (FG644100)
 - Electrolytic Cap.**
C 101,201,301,
401: 100.00 10.0V (U1528100)
 - Carbon Resistor**
R 200,201,202,203,204,205,
211,312,313,314,315:
100.0 1/4 J (HF755100)
R 220: 27.0K 1/4 J (HF757270)
R 221: 6.8K 1/4 J (HF756680)
R 316,317,318,319: 100.0 1/4 J (HF755100)
 - Resistor Array**
RA 200: RGL6X103J (VF771900)
RA 201: RGL4X103J (VF773500)
 - Rotary Variable Resistor**
VR 200: B10.0K RK09K113D (VS368200)
CONTRAST
 - Rotary Encoder**
EN 200: REB161 PVB 15F (VU481300)
 - Ceramic Resonator**
CL 150: 8 MHz EFO-FC8004 (VE222400)
 - Tact Switch**
SW A10,004,006,104,204,206,304,
306,404,406,504,506,606,600,
604,606,607,700,704,706,800,
804,806,807,900,901,906,907:
SKHVBL042A H=7 (VQ371700)
 - Connector Base Post**
CN 110: PH-12P SE (VC166500) to PN1A-
CN111
CN 120: PH-10P SE (VB858900) to PN1A-
CN121
CN 200: PH-11P SE (VB389600) to DM-CN450
CN 310: PH-8P SE (VB858700) to PN3A-
CN311
CN 320: PH-10P SE (VB858900) to PN3A-
CN321
 - Connector Assembly**
CW210: 3P-50 (--)
 - Jumper Wire**
: 0.55 (VA078900)

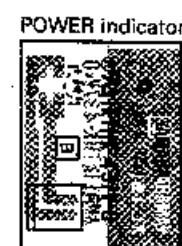


Component side

Notes)

- Circuit Board: PEDAL (VU466800) (XR780B0)
- Connector Base Post**
: PH-6P TE (VB390200) to DM-CN310
 - Jumper Wire**
: 0.55 (VD041700)

• PL Circuit Board

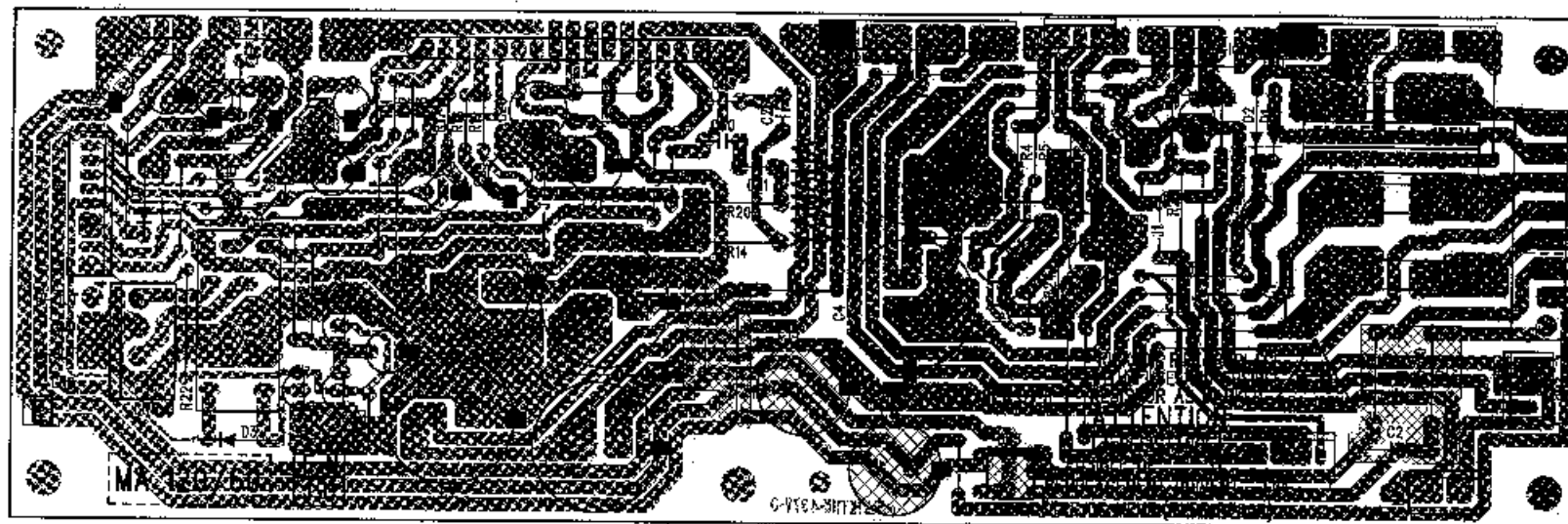


Component side

Notes)

- Circuit Board: PL (VN637600) (XL151B0)
- LED**
LED 1: SLZ-190B-03 RE (VD180000)
 - Connector Base Post**
CN 1: PH-2P SE (VB858100) to HP-CN2

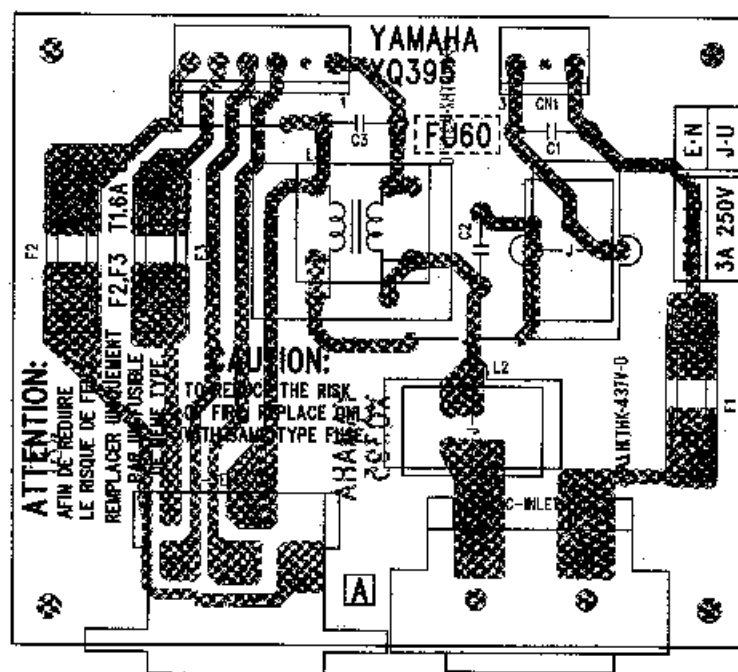
• MA60 Circuit Board



* R1, R2, C2, C14, C15 and DB3 are not installed on a MA60 circuit board.

Components side

• FU60 Circuit Board



VOLTAGE
SELECTOR

AC Inlet

Component side

Notes)

Circuit Board:

FU60 (-) J VT15140, XQ395A0
FU60 (-) U VT15150, XQ03950
FU60 (-) BE VT15160, XQ03950
FU60 (-) X VT15290, XQ03950

1. Capacitor

C 01: 0.01 400V J.U.C (VT575200)
C 02,03: 4700P 400V U.C.S (F1383470)

2. Coil

L3: SU10V-D20010 (VF790900)

3. Fuse

F1: TL 1.60A (KB003060) BE
T 3.00A (KB003590) JUX
TL 1.60A (KB003060) X

4. Voltage Selector

M1684-B (VT139600) X

5. AC Inlet

CCT9302-0101M (VT308100) JBEX
CCT9302-0201 (VT308200) U

6. Fuse Holder

PC-PH1 (LB201530) JUBEX

5. Base Post Connector

CN 1: VH-3P TE (LB932030) to power switch
CN 2: VH-6P TE (LB932060) to power transformer primary

7. Jumper Wire

J1: 0.55 (VD041700)
JUBE
L1,2: 0.55 (VD041700)

Notes)

Circuit Board:

MA60 (-) JU (VT14390)
XQ393E0
MA60 (-) BEX (VT14400)
XQ393E0

1. IC

IC1: SI-3051N (XQ437A00) REGULATOR
+5V
IC2: M5237L (XQ667A00) REGULATOR
+5V
IC3: NJM78M12FA (XJ602A00)
REGULATOR +12V
IC4: NJM79M12FA (XD343A00)
REGULATOR -12V
IC5: STK401-040 (XL972A00) POWER
AMPLIFIER

2. Transistor

TR 1: 2SA1451 O.Y (VJ828100)
TR 2-4: 2SC1815 Y,GR (IC1815M0)

3. Diode

D 1-3: 11ES4 (VB481800)

4. Diode Stack

DB 1: D5SBA20 6.0A 20 (VK421800)
DB 2: D3SBA20-4103 4. (VQ111500)

5. Ceramic Capacitor

C 1: 0.0100 500V P (VA302600)
C 12,22,27: 1000P 50V K (FG613100)

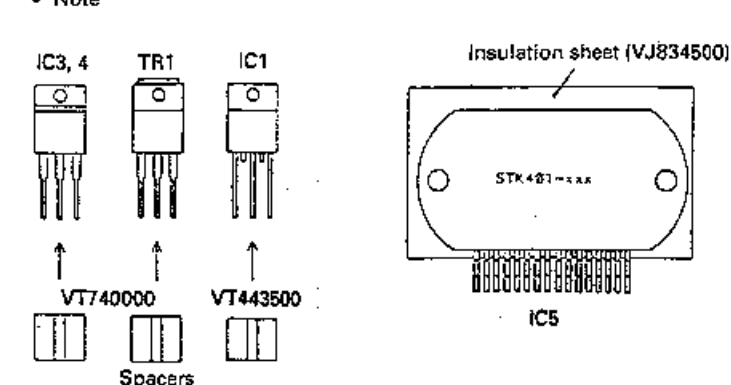
6. Semiconductive Cera. Cap.

C 17,25,26,30,31: 0.1000 25V Z (VC694800)

7. Electrolytic Cap.

C 3,4: 4700 16.0V (VU642700)
C 5-8: 3300 35.0V (VL232400)
C 9-11,16,18,19, 23,28: 1.00 50.0V (UJ866100)
C 13,24,29,32: 100.00 16.0V (UJ838100)
C 20,21: 100.00 50.0V (UJ868100)
C 33: 3.30 50.0V (UJ866330)

• Note

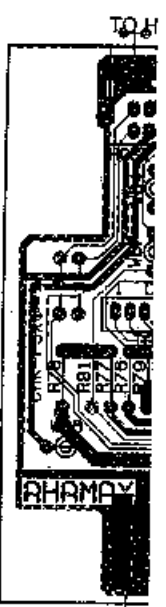


CAUTION: REPLACE WITH SAME TYPE
5A 125V FUSE.

ATTENTION: UTILISER UN FUSIBLE DE
RECHANGE DE MÊME TYPE DE 5A 125V.

NOTE: The symbol () shows Slow operating fuse.

• JACK1 (



*J1, J2, J3 are

Notes)

Circuit Board:

1. IC
IC5:
IC7:

2. Transistor

TR 2,4:

3. Diode

D 2-5:

4. Photo Cou

IC3:

5. Ceramic C

C 1,4,5,7,7:

6. Electrolytic

C 8:

7. Electrolytic

C 6:

8. Carbon Res

R 69,71-75,

79,83:

R 70,82:

R 76,77:

R 80,81,84-

R 89:

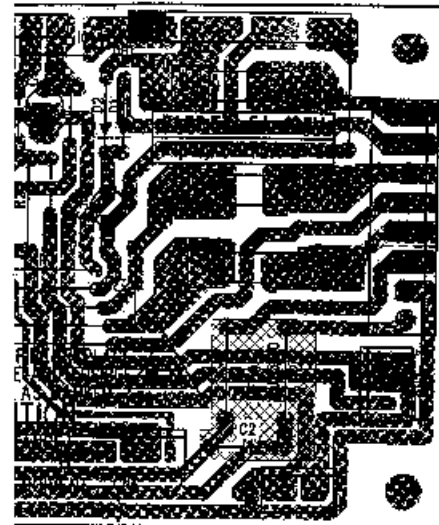
R 91-93:

MA60 : 2NA-VT14340

FU60 : 2NA-VT15170

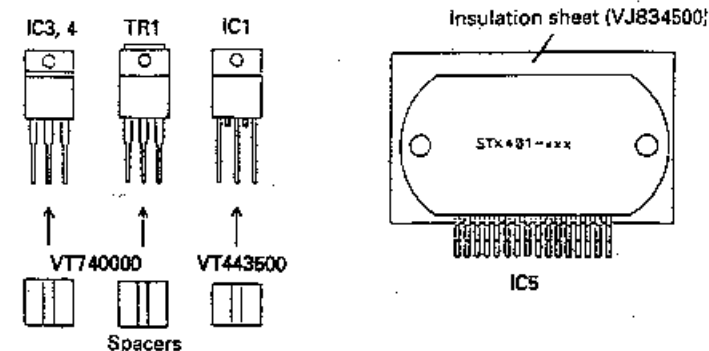
35 JACK1 : 2NA-VU26770

CVP-92




Components side

• Note



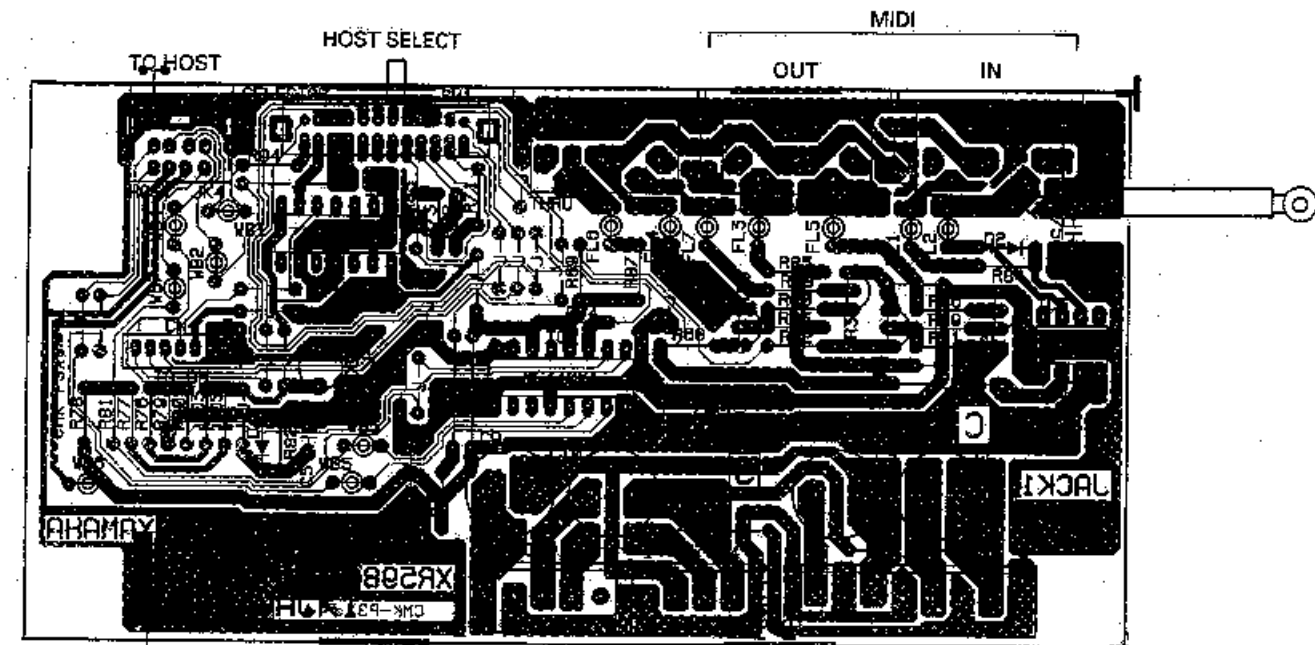
CAUTION: REPLACE WITH SAME TYPE
5A 125V FUSE.

ATTENTION: UTILISER UN FUSIBLE DE
RECHANGE DE MÊME TYPE DE 5A 125V.

NOTE: The symbol () shows Slow operating fuse.

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• JACK1 Circuit Board



※J1, J2, J3 are not installed.

Component side

Notes)

Circuit Board:

MA60 (--) JU (VT14390)
XQ393E0
MA60 (--) BEX (VT14400)
XQ393E0

1. IC

IC1: SI-3051N (XQ437A00) REGULATOR
+5V
IC2: M5237L (XQ867A00) REGULATOR
+5V
IC3: NJM78M12FA (XJ602A00)
REGULATOR +12V
IC4: NJM79M12FA (XD343A00)
REGULATOR -12V
IC5: STK401-D40 (XL972A00) POWER
AMPLIFIER

2. Transistor

TR 1: 2SA1451 O.Y (VJ828100)
TR 2-4: 2SC1815 Y.GR (IC1815M0)

3. Diode

D 1-3: 11ES4 (VB481900)

4. Diode Stack

DB 1: D5SBA20 6.0A 20 (VK421800)
DB 2: D3SBA20-4103 4. (VQ111500)

5. Ceramic Capacitor

C 1: 0.0100 500V P (VA302600)
C 12,22,27: 1000P 50V K (FG613100)

6. Semiconductor Cera. Cap.

C 17,25,26,30,31: 0.1000 25V Z (VC694800)

7. Electrolytic Cap.

C 3,4: 4700 16.0V (VJ642700)
C 5-8: 3300 35.0V (VL232400)
C 9-11,16,18,19,
23,28: 1.00 50.0V (UJ866100)
C 13,24,29,32: 100.00 16.0V (UJ838100)
C 20,21: 100.00 50.0V (UJ868100)
C 33: 3.30 50.0V (UJ868330)

8. Carbon Resistor

R 3: 1.0K 1/4 J (HF756100)
R 4: 220.0 1/4 J (HF755220)
R 5: 56.0 1/4 J (HF754560)
R 6,11,13,15,17,
19,21: 10.0K 1/4 J (HF757100)
R 7,22,23: 3.3K 1/4 J (HF756330)
R 10,12,16,18: 560.0 1/4 J (HF755560)

9. Metal Oxide Film Resistor

R 14,20: 10.0 1W J (VC742500)

10. Fuse Resistor

R 8,9: 100.0 1/4 J (HW095100)

11. Fuse

F 1-3: TL 5.00A S (KB003240) EBX
T 5.00A JU (KB003630) JU

12. Relay

RY 1: DC G5Z-2A-YA (VK881200)

13. Connector

CN 1: VH-5P TE (LB932050) to power
transformer secondary
CN 3: XH-3P TE (LB918030) to FDD unit
CN 4: PH-7P TE (VB390300) to DM-CN350
CN 5: VH-4P TE (LB932040) to speaker (L, R)
CN 6: PH-9P TE (VB390500) to EQ-CN3

14. Fuse Holder

FUHL: EYF-52BC (VP206500)

15. Jumper Wire

: 0.55 (VD041700)

Notes)

Circuit Board:

JACK1 (VY715100) XR596C0

1. IC

IC5: SN74HCU04N (IG142250) INVERTER
IC7: MC34051P (XP094A00) LINE
TRANSCEIVER

2. Transistor

TR 2,4: 2SC1740S R.S (IC174070)

3. Diode

D 2-5: 1SS133,1SS176 (VB941200)

4. Photo Coupler

IC3: 6N137 (VD473200)

5. Ceramic Capacitor-F

C 1,4,5,7,74,75: 0.0100 50V Z (FG644100)

6. Electrolytic Cap.

C 8: 10.00 16.0V (UJ837100)

7. Electrolytic Cap.-BP

C 6: 47.00 6.3V (UN817470)

8. Carbon Resistor

R 69,71-75,78,
79,83: 10.0K 1/4 J (HF757100)
R 70,82: 1.0K 1/4 J (HF756100)
R 76,77: 100.0 1/4 J (HF755100)
R 80,81,84-86: 220.0 1/4 J (HF755220)
R 89: 1.5K 1/4 J (HF756150)
R 91-93: 22.0K 1/4 J (HF757220)

9. Slide Switch

SW 1: SSSF144-S06N-0 (VQ665200) HOST
SELECT

10. Coil

FL 1-5: FL5R200QNT (VB835000)

11. Ferrite Bead

WB 1-7: BL02RN2-R62T4 (GE300670)

12. DIN Connector

JK 1,2: 5P YKF51-50 (VT202500) MIDI
IN/OUT
JK 4: DIN-8P MD-S810 (VM761000) TO
HOST

13. Connector Base Post

CN 4: PH-7P TE (VB390300) to DM-CN320

14. Jumper Wire

: 0.55 (VD041700)

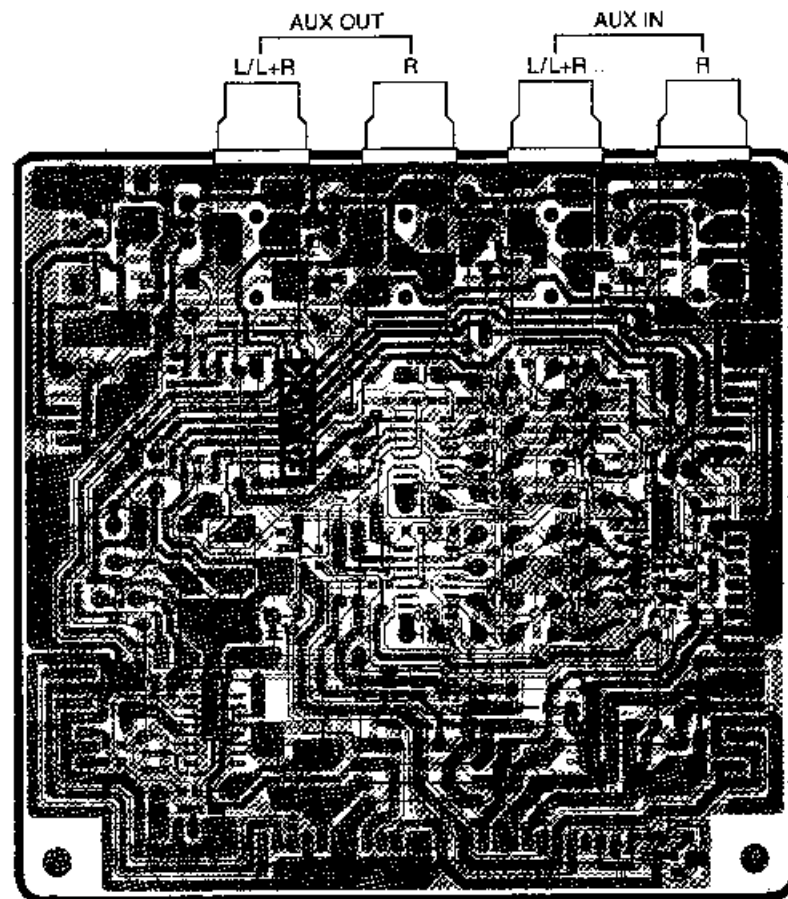
15. Cable, Earth

: (VG925900)

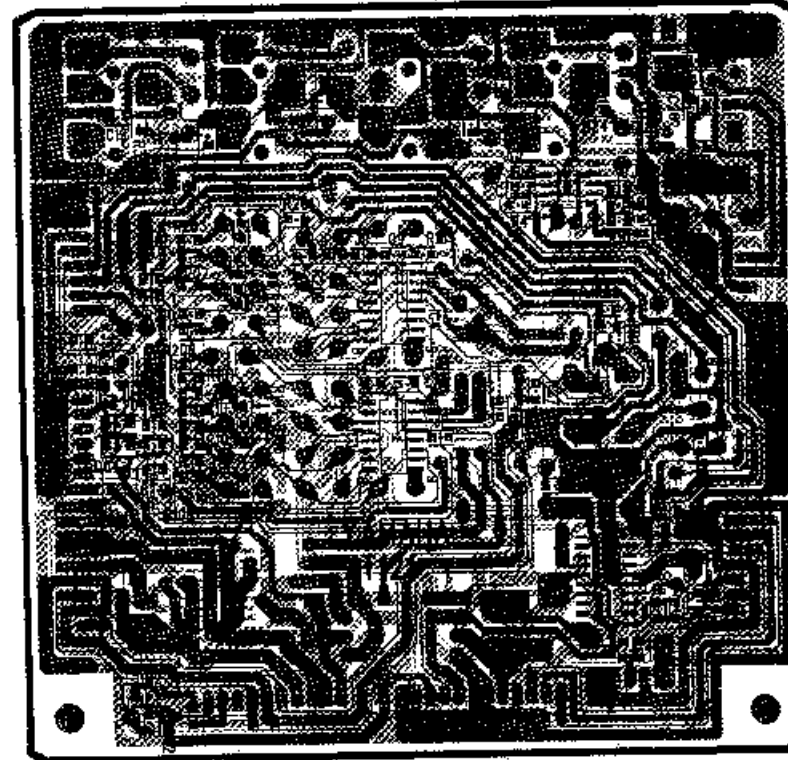
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• EQ Circuit Board



Component side

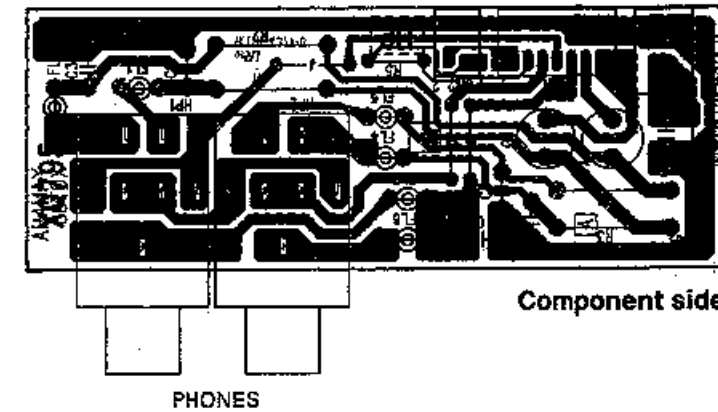


Pattern side

Notes)

- Circuit Board: EQ (VY637800) XT121C0
- IC**
IC 01: UPC4570G2 (XF291A00) OP AMP
IC 02: LA6517M-TE-R (XT131A00) OP AMP
IC 03,04: M5227FP (XL252A00) EQUALIZER
 - Transistor**
TR 1: 2SC2412K Q,R,S (VY556400)
 - Diode**
D 01: MA221 (VB493900)
 - Mylar Capacitor**
C 104,204: 0.0560 50V J (UA354560)
C 105,205: 0.0330 50V J (UA354330)
C 106,206: 0.0220 50V J (UA354220)
C 107,207: 6800P 50V J (UA353880)
C 108,109,208,209: 8200P 50V J (UA353820)
C 110,210: 100P 50V J (UA352100)
 - Monolithic Mylar Capacitor**
C 13,14: 0.10 50V J (VE326000) or ECQ-V1H104JL3 (VR168300)
C 101,201: 0.27 50V J (VE326500) or ECQ-V1H274JL3 (VR168900)
C 102,103,202,203: 0.12 50V J (VE326100) or ECQ-V1H124JL3 (VR168400)
 - Monolithic Ceramic Cap.**
C 01,03: SL 560P 50V J (UB052560)
C 06,09: B 1500P 50V K (UB013150)
C 11,12: SL 120P 50V J (UB052120)
C 16,18,19,20: B 1000P 50V K (UB013100)
C 21: F 0.010 50V Z (UB044100)
 - Electrolytic Cap.**
C 15,17: 1.00 50.0V (UJ866100)
C 23,24: 100.00 16.0V (UJ838100)
 - Electrolytic Cap.-BP**
C 05,08: 47.00 25.0V (UN847470)
 - Carbon Resistor (chip)**
JP: 0.0 0.0 J (RD250000)
R 01,07: 12.0K 0.1 J (RD257120)
R 02,08,106,206: 22.0K 0.1 J (RD257220)
R 04,10,23,24,28: 10.0K 0.1 J (RD257100)
R 05,11: 3.9K 0.1 J (RD256390)
R 13,15,30: 4.7K 0.1 J (RD256470)
R 14,16: 3.3K 0.1 J (RD256330)
R 18,21: 39.0K 0.1 J (RD257390)
R 19,22: 33.0 0.1 J (RD254330)
R 25,26: 470.0 0.1 J (RD255470)
R 27,29,101,103,105,201,203,205: 1.0K 0.1 J (RD256100)
R 102,104,109,202,204,209: 18.0K 0.1 J (RD257180)
R 107,207: 2.7K 0.1 J (RD256270)
R 108,208: 15.0K 0.1 J (RD257150)
R 110,210: 1.5K 0.1 J (RD256150)
 - Coil**
FL 2,4,8,9: SBT-0210T (VT733400)
 - Chip Inductance**
FL 1,3: 56U LEM2520 T 56 (VR243700)
 - Relay**
RY 01: DC RY12W (KC001900) or DC G5V-2 (VL406800) or DC G5V-2-H1 (VR745400)
 - Phone Jack**
JK 1,2,3,4: LGR4609-7000 BL (VS115400) AUX IN/OUT
 - Connector Base Post**
CN 1: PH- 8P TE (VB390400) to MV-CN150
CN 2: PH-12P TE (VB390800) to DM-CN850
CN 3: PH- 9P TE (VB390500) to MA60-CN6
CN 5: PH- 7P TE (VB390300) to HP-CN1
CN 6: PH- 4P TE (VB390000) to MIC-CN1
 - Jumper Wire**
C 6,7: 0.55 (VD041700)
 - Cable, Earth**
: (VG925900)

• HP Circuit Board



Component side

Notes)

- Circuit Board: HP (VT478400) (XQ795A0)
- Semiconductive Cera. Cap.**
C 1-5: 0.1000 25V Z (VE659000)
 - Coil**
FL 1-6: FL5R200QN (VB971100)
 - Carbon Resistor**
R 1-4: 68.0 1/2 J (VK992200)
 - Phone Jack**
HP 1,2: YKB21-5006 (LB101870)
 - Connector**
CN 1: PH- 7P SE (VB858600) to EQ-CN5
CN 2: PH- 2P SE (VB858100) to PL-CN1
CN 3: XH- 2P SE (LB919020) to key bed and front rail ground
 - Jumper Wire**
C 6,7: 0.55 (VD041700)
R 5: 0.55 (VD041700)

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■ TEST PROGRAM

1. Preparation

To check the unit using the test program, the following measuring instruments and jigs will be required:

Measuring instruments and jigs:

Level meter (IIF-C cave)

Frequency counter

Notes: Impedance must be 1M Ω or above.

Use stereo plugs, and connect 33 Ω load at PHONES terminal.

Floppy disks (2HD and 2DD)

Unit setting:

MASTER VOLUME: Maximum

Tone: PIANO

Pedal: OFF

Reverb: OFF

Other terminals: Not connected

2. How to enter the Test Program

While depressing the [C2#], [F2] and [G2#] keys, turn the power switch ON.

3. Proceeding through the Test Program

The LCD will display "TEST MODE" when enter the test program.

To select the program number, use [Tempo +/-].

To start the test, press the [Start/Stop] button.

The LCD will display "OK" when the test result is OK.

When the test result is "NG", turn the power switch off and re-enter the test program.

Test items

No.	LCD display for each test	Test Functions and Judgment criteria
1	001:Version	Displays version for ROM (MAIN, WAVE, SCAN, STYLE, PARAM).
2	002:ROM Check1	Checks the Program ROM and Data ROM.
3	003:RAM Check1	Checks all RAMs which are connected to CPU.
4	004:Wave ROM Check1	Checks wave ROM.
7	007:FDD Check	Checks the floppy disk drive unit.
9	009:Effect1 RAM Check	Checks Reverb effect RAM. Check that C3 note is output and there is no noise.
11	011:TG1 Check	Outputs the sine wave by changing the channels in sequence from A0 to C6. When a voice switch is depressed, the tone of the voice will sound. After autoscaling is finished, individual keys can be played. (If playing two or more keys simultaneously, the first depressed key has priority to make sound)
13	013:Pitch Check	Check that the 441.0 ± 0.1 Hz signal is output.
14	014:Output R	Check output level (1 kHz). AUX OUT L: Less than -35 dBm (-22 dBm \pm 2 dB) AUX OUT R: -17 dBm \pm 2 dB When the Rch plug is disconnected, the output level is shown in (). PHONES L: Less than -35 dBm, PHONES R: -26 dBm \pm 2 dB
15	015:Output L	Check output level (1 kHz). AUX OUT L: -17 dBm \pm 2 dB AUX OUT R: Less than -35 dBm PHONES L: -26 dBm \pm 2 dB, PHONES R: Less than -35 dBm
16	016:EQ Low	For factory test use only.
17	017:EQ Mid	For factory test use only.
18	018:EQ High	For factory test use only.
19	019:D/A Noise	Check D/A converter noise. Play a note and check that there is no noise during the PIANO 1 release time. (Damper pedal is ON)

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20	020:SW, LED Check	Check switches and LEDs on the panel. Press the switch which is displayed on the LCD. A pre-assigned note is output when depressing the switch. (With some switches, the corresponding LED will light up). Also check the dial by turning it; the LCD displays OK. The LCD will display the numbers from 50~100 when turning the dial clockwise from center and from 50~0 when turning the dial counter-clockwise from center.
21	021:All Panel LED On	Check that all panel LEDs are lit.
22	022:All Red Panel LED On	Check that all red panel LEDs are lit.
23	023:All Green Panel LED On	Check that all green panel LEDs are lit.
25	025:All Key LED On	Check that all keyboard guide LEDs are lit.
26	026:All Red Key LED On	Check that all red keyboard LEDs are lit.
27	027:All Green Key LED On	Check that all green keyboard LEDs are lit.
28	028:All LCD Dot On	Check that all LCD dots are ON. The LCD display becomes black.
29	029:All LCD Dot Off	Check that all LCD dots are OFF. The LCD display becomes white.
31	031:Soft Pedal Check	Check that C3 note is output when pushing the pedal and C4 is output when releasing the pedal, and the LCD displays OK.
32	032:Soste. Pedal Check	Check that C3 note is output when pushing the pedal and C4 is output when releasing the pedal, and the LCD displays OK.
33	033:Damper Pedal Check	Check that C3 note is output when pushing the pedal and C4 is output when releasing the pedal, and the LCD displays OK.
34	034:ABC VOLUME Check	Check that C3 note is output and the LCD displays 0 at minimum position, and C4 note is output and the LCD displays 127 at maximum position, and the LCD displays OK.
37	037:MIDI Check	After connecting the MIDI IN and MIDI OUT, execute the test. The test result appears on the LCD display.
38	038:To Host Check	Connect 1 pin to 2 pin, 3 pin to 5 pin and 6 pin to 8 pin on the TO HOST terminal and execute the test. Check that the following notes are output when changing the HOST SELECT switch position according to the LCD indication, and the LCD displays OK: Mac position: note C5, PC1 position: note C4, PC2 position: note C3
41	041:ROM Check 2	For factory test use only.
42	042:RAM Check 2	For factory test use only.
43	043:Wave ROM Check 2	For factory test use only.
46	046:Back Up Check 2	For factory test use only.
47	047:Factory Set	All RAMs are initialized and set to the factory preset data when executing this test.
48	048:Test Mode Exit	Exit from the test program when executing this test.

Note: 0 dBm = 0.775 V

■ Inspections

1. AUX IN and AUX OUT

1-1 Apply a 1 kHz, -20 dBm sine wave to the AUX IN L/L+R and a $-\infty$ dB signal to the AUX R. Confirm that the output meet the following specifications:

AUX OUT L/L+R	-1 dBm \pm 2 dB	PHONES L	-10 dBm \pm 2 dB
AUX OUT R	Less than -50 dBm	PHONES R	Less than -55 dBm

1-2 Apply a 1 kHz, -20 dBm sine wave to the AUX R and a $-\infty$ dB signal to the AUX IN L/L+R. Confirm that the output meet the following specifications:

AUX OUT L/L+R	Less than -50 dBm	PHONES L	Less than -55 dBm
AUX OUT R	-1 dBm \pm 2 dB	PHONES R	-10 dBm \pm 2 dB












2. Noise Level

Confirm that the PHONES L and R output noise level is less than -85 dBm when no sound is produced.










Note: 0 dBm = 0.775 V

■ MESSAGES




● Common Messages

 No disk !	<p>This prompt appears when there is no disk in the disk drive.</p> <p>⇒ Put the proper disk in the drive and attempt the operation again.</p>
 No song !	<p>When renaming the original song or converting the data this prompt will warn you in the event that there is no song data.</p> <p>⇒ Select a data-containing song, or insert a disk with song data into the floppy disk drive.</p>
 No file !	<p>This message appears if there is no Registration Memory, Micro Tuning, or related data on the currently inserted disk when you attempt a file-related operation.</p> <p>⇒ Create a file or insert a disk with a proper file.</p>
 Start disk format ?	<p>This message appears when a new disk or a non-Clavinova formatted disk has been inserted into the disk drive. (See page 94 in the Owner's Manual.)</p> <p>⇒ Press OK if you want to format the disk. Press CANCEL if you want to abort the formatting process.</p>
 Protected disk !	<p>This message appears when you attempt to record or perform other file operations to a disk whose write-protect tab is set to "write protect."</p> <p>⇒ Set the write-protect tab to the recordable position (page 7 in the Owner's Manual) then try the operation again. If the operation still cannot be performed, the disk itself has internal write protection, making it impossible to perform recording or file operations on the disk.</p>
 Protected song !	<p>This message appears when you attempt to record over parts or perform other operations on files that are incompatible or do not allow such operations. Depending on the file type, operations such as additional recording, copying, deleting, etc. may not be possible on the CVP-94/92.</p>
 Disk read/write error !	<p>An error occurred while writing to (as in recording or storing files) or reading from the disk.</p> <p>⇒ Try the operation again after pressing the OK button. If the error occurs a second time, the disk or the disk drive unit may be faulty. If you suspect the drive to be at fault, refer the problem to your Yamaha dealer.</p>
 Completed !	<p>This appears for a few seconds when a time consuming operation such as format, song copy, etc. is finished.</p>
 Don't remove the disk !	<p>This message appears when data is being transferred between the Clavinova and the disk.</p> <p>⇒ The message disappears automatically when the operation is finished.</p>
 Are you sure ?	<p>When operations such as Song Delete or Format are selected, this prompts you to confirm whether you want to go ahead with the operation or not.</p> <p>⇒ Press YES to execute the operation. Press NO to return to the previous display.</p>
 Disk full !	<p>The currently loaded disk is full and cannot hold any more data.</p> <p>⇒ Press the OK button, then delete any unnecessary data in the disk (page 123 in the Owner's Manual), or use a disk that has more available space. If this appears during song recording, recording will stop and recorded data up to that point will be saved automatically.</p>



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 Too Many files ! <input type="button" value="OK"/>	<p>A 2DD and a 2HD disk can hold up to 60 song files each. A 2DD disk can hold about 110 files (of various types), and a 2HD disk can hold up to about 220 files.</p> <p>This message appears when you try to produce more files than the disk is capable of storing.</p> <p>⇒ Press the OK button, then delete any unnecessary files in the disk (page 123 in the Owner's Manual), or use a disk that has more available space.</p>
 Same name ! Overwrite ? <input type="button" value="OK"/> <input type="button" value="CANCEL"/>	<p>A file with the same name exists.</p> <p>⇒ Press the OK button if you wish to overwrite the original file with new data, or press CANCEL to abort the operation.</p>
 This button can't be used during recording or playback !	<p>This message appears when you try to perform operations which cannot be done during recording or playback, such as data conversion, etc.</p> <p>⇒ Stop song recording or playback, or exit from the recording/playback mode, then perform the operation again.</p>
 This button can't be used during playback !	<p>This appears when you try to execute operations that cannot be performed during playback, such as changing the number of repeats of the Guide function.</p> <p>⇒ Stop song playback, or exit from the playback mode, then perform the operation again.</p>
 Button not valid !	<p>A button that does not have a function in the current mode has been pressed.</p>
 Disk read/write operation in process !	<p>This message appears when you try to execute other operations while reading data from the disk or saving data.</p> <p>⇒ Wait until the data read/write operation is completed, then perform the operation again.</p>
 Memory write operation in process !	<p>This message appears when you attempt to execute another operation while writing edited data of a song recorded to internal RAM.</p> <p>⇒ Complete the data write operation, then perform the other operation.</p>
 Delete CVP MEMORY ? <input type="button" value="YES"/> <input type="button" value="NO"/>	<p>This message appears when executing an operation that results in deleting data recorded to the internal RAM, such as playback of disk software.</p> <p>⇒ Press YES to delete the data recorded to the internal RAM, then perform the desired operation. Press the NO button if you want to keep the data.</p>
 Convert to CVP songs ? <input type="button" value="YES"/> <input type="button" value="NO"/>	<p>This message appears when you attempt to record over or edit data of commercially available software or data recorded on Clavinovas other than the CVP-94/92/98/96.</p> <p>⇒ Press YES to convert the data for recording/editing on the CVP-94/92/98/96. Press NO if you don't want to convert the data.</p>












● Song Copy Related Messages

 Number of disk exchange (1) <input type="button" value="OK"/> <input type="button" value="CANCEL"/>	<p>This message informs you of the number of times the disks must be exchanged when copying a song to a different disk before starting the song copy operation. (See page 122 in the Owner's Manual.)</p>
 Insert Disk 2, (1 / 3) <input type="button" value="CANCEL"/>	<p>Insert the destination disk to be copied. (See page 122 in the Owner's Manual.)</p>
 Please select destination song number. <div style="border: 1px solid black; padding: 2px; display: inline-block;">SON16</div> <input type="button" value="OK"/> <input type="button" value="CANCEL"/>	<p>When copying a song from the source disk to another disk, this message prompts you to specify the song number in the destination disk to which the song is to be copied, when the disk is first inserted. (See page 122 in the Owner's Manual.)</p>

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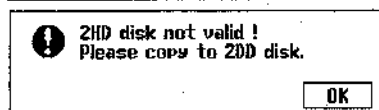
 Insert Disk 1. (2 / 3) <input type="button" value="CANCEL"/>	<p>This message prompts you to insert the source disk when copying songs to a second disk. (See page 122 in the Owner's Manual.)</p>
 Select a different number ! 	<p>This appears when the same song number is selected for both source and destination in the song copy operation.</p> <p>⇒ Change the destination song number.</p>

● Custom Style Related Messages

 CUSTOM STYLE Please select a source style. 	<p>This message appears for a few seconds when the Custom Style mode is engaged. (See page 59 in the Owner's Manual.)</p>
 Clear style ? <input type="button" value="OK"/> <input type="button" value="CANCEL"/>	<p>This confirmation prompt appears when you attempt to change the beat parameter in the Custom Style mode. (See page 60 in the Owner's Manual.)</p>
 Clear section ? <input type="button" value="OK"/> <input type="button" value="CANCEL"/>	<p>This confirmation prompt appears when you attempt to change the number of measures in the Custom Style mode. (See page 61 in the Owner's Manual.)</p>
 Clear part ? <input type="button" value="OK"/> <input type="button" value="CANCEL"/>	<p>This confirmation prompt appears when you attempt to perform operations which can only be done after deleting the part of the original style in the Custom Style mode. (See page 62 in the Owner's Manual.)</p>
 Store Bossa NovaX ? <div style="border: 1px solid black; padding: 2px; display: inline-block;">MEMORY No. 11TEMP.STYLE</div> <input type="button" value="OK"/> <input type="button" value="CANCEL"/>	<p>This confirmation prompt appears when you attempt a store operation in the Custom Style mode. (See page 64 in the Owner's Manual.)</p> <p>This also appears when you attempt to change styles before storing. (See page 68 in the Owner's Manual.)</p>
 Store Bossa NovaX ? <div style="border: 1px solid black; padding: 2px; display: inline-block;">MEMORY No. 11TEMP.STYLE</div> <input type="button" value="YES"/> <input type="button" value="NO"/> <input type="button" value="CANCEL"/>	<p>This confirmation prompt appears when you attempt to exit from the Custom Style mode before storing data. (See page 68 in the Owner's Manual.)</p> <p>⇒ Select YES to store. Press NO to exit without storing data. Press CANCEL to return to the previous display without storing data. (See page 68 in the Owner's Manual.)</p>
 Can't recall ! <input type="button" value="OK"/>	<p>This message appears when the Recall Section operation in the Custom Style mode cannot be performed, due to changes in the time signature (beat). (See page 64 in the Owner's Manual.)</p>
 Please store to memory before saving to disk <input type="button" value="OK"/>	<p>If the data has not been stored to memory before saving to disk in the Custom Style mode, this message prompts you to store the data before proceeding. (See page 66 in the Owner's Manual.)</p>
 Not enough memory ! Please delete an unneeded style or simplify the current style. <input type="button" value="DELETE"/> <input type="button" value="CANCEL"/>	<p>This message appears if there is not enough internal memory space left when storing data in the Custom Style mode. (See page 67 in the Owner's Manual.)</p>
 Delete style ? <div style="border: 1px solid black; padding: 2px; display: inline-block;">MEMORY No. 118Beat Pool K17KB</div> <input type="button" value="OK"/> <input type="button" value="CANCEL"/>	<p>This message appears when DELETE is selected from the display shown above.</p> <p>⇒ Select the style to be deleted and press the OK button. Press CANCEL if you do not want to delete the style.</p>
 Not enough memory ! <input type="button" value="OK"/>	<p>This message appears when memory capacity has become full during recording in the Custom Style mode (page 68 in the Owner's Manual). This also appears when memory has become full during recording of a song to internal RAM. In this case, recording will stop and data recorded up to that point will be saved automatically.</p>

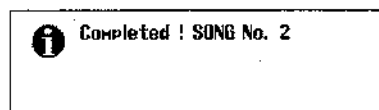
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● Recorded Data Conversion Related Messages



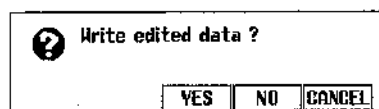
This message appears if a 2HD disk is used when performing conversion of the recorded data.

⇒ Press **OK** and copy the song data to be converted to a 2DD disk, then perform the data conversion using the disk.



Following conversion of the song data, this message displays the song number to which the data was saved.

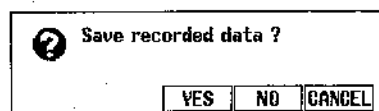
● Initial Data Change Related Messages



This confirmation message appears if you attempt to exit the Initial Edit function without writing the data.

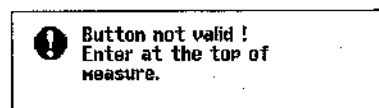
⇒ Press **YES** to write the changed data. Press **NO** to exit without writing. Press **CANCEL** to return to the Initial Edit display without writing.

● Chord Sequence Related Messages



This confirmation message appears if you attempt to exit the Chord Sequence function during recording.

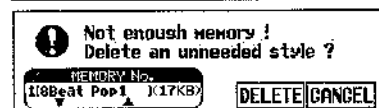
⇒ Press **YES** to store the recorded data. Press **NO** to exit without storing. Press **CANCEL** to return to the Chord Sequence display without storing.



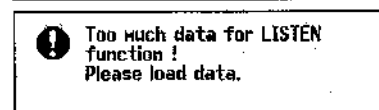
This message appears during Chord Sequence recording when you attempt to enter an accompaniment style or section change at a position other than the beginning of a measure.

⇒ Record changes of accompaniment style or section only at the beginning of the measure. (See page 105 in the Owner's Manual.)

● Style File Load Related Messages

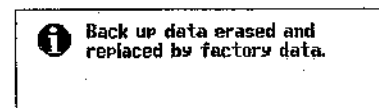


This message appears when you attempt to load a Style file without there being enough memory to hold the specified file. (See page 70 in the Owner's Manual.)



Some Style Files are too large to be handled by the **LISTEN** feature in the Style File Load function. (See page 70 in the Owner's Manual.)

● Other Messages

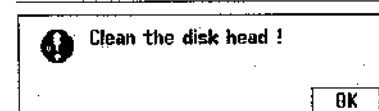


As long as the Clavinova is regularly used, data is retained in memory. If the instrument is left unused for a week or longer before being turned on again, the data is erased and this message appears. This message also appears when you recall all factory data. (See page 132 in the Owner's Manual.)



A problem has been detected in the hardware system during power on.

⇒ Refer the problem to your Yamaha dealer.



The disk head is dirty. Clean the disk head using a commercially available head cleaning disk.

MIDI DATA FORMAT

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter "H" as a suffix. Also, "n" can freely be defined as any whole number.

To enter data/values, refer to the table below.

Decimal	Hexadecimal	Binary
0	00	0000 0000
1	01	0000 0001
2	02	0000 0010
3	03	0000 0011
4	04	0000 0100
5	05	0000 0101
6	06	0000 0110
7	07	0000 0111
8	08	0000 1000
9	09	0000 1001
10	0A	0000 1010
11	0B	0000 1011
12	0C	0000 1100
13	0D	0000 1101
14	0E	0000 1110
15	0F	0000 1111
16	10	0001 0000
17	11	0001 0001
18	12	0001 0010
19	13	0001 0011
20	14	0001 0100
21	15	0001 0101
22	16	0001 0110
23	17	0001 0111
24	18	0001 1000
25	19	0001 1001
26	1A	0001 1010
27	1B	0001 1011
28	1C	0001 1100
29	1D	0001 1101
30	1E	0001 1110
31	1F	0001 1111
32	20	0010 0000
33	21	0010 0001
34	22	0010 0010
35	23	0010 0011
36	24	0010 0100
37	25	0010 0101
38	26	0010 0110
39	27	0010 0111
40	28	0010 1000
41	29	0010 1001
42	2A	0010 1010
43	2B	0010 1011
44	2C	0010 1100
45	2D	0010 1101
46	2E	0010 1110
47	2F	0010 1111
48	30	0011 0000
49	31	0011 0001
50	32	0011 0010
51	33	0011 0011
52	34	0011 0100
53	35	0011 0101
54	36	0011 0110
55	37	0011 0111
56	38	0011 1000
57	39	0011 1001
58	3A	0011 1010
59	3B	0011 1011
60	3C	0011 1100
61	3D	0011 1101
62	3E	0011 1110
63	3F	0011 1111

• Except the table above, for example 144-159(decimal)/9nH/1001 0000-1001 1111(binary) displays the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 displays the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 displays the Program Change Message for each channel (1-16). 240/FOH/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.

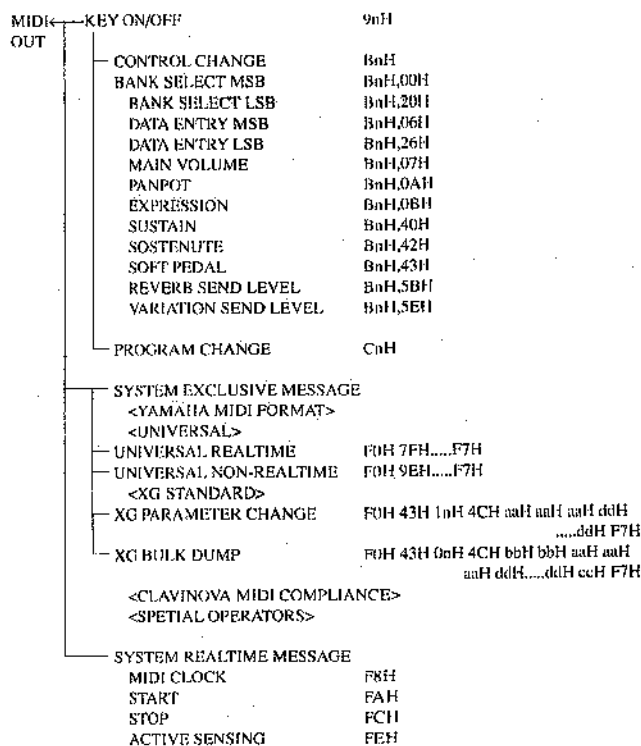
• aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.

• bbH/0bbbbb denotes the byte count.

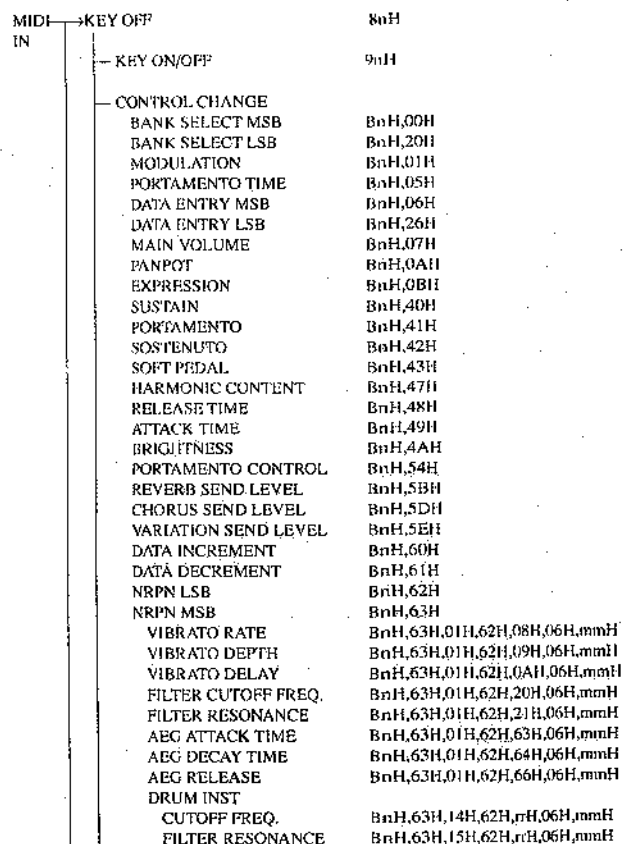
• ccH/0ccccccc denotes the check sum.

• ddH/0ddddd denotes the data/value.

(1) TRANSMIT FLOW



(2) RECEIVE FLOW



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AEG ATTACK RATE	BnH,63H,16H,62H,rH,06H,mmH
AEG DECAY RATE	BnH,63H,17H,62H,rH,06H,mmH
PITCH COARSE	BnH,63H,18H,62H,rH,06H,mmH
PITCH FINE	BnH,63H,19H,62H,rH,06H,mmH
LEVEL	BnH,63H,1AH,62H,rH,06H,mmH
PANPOT	BnH,63H,1CH,62H,rH,06H,mmH
REVERB SEND	BnH,63H,1DH,62H,rH,06H,mmH
CHORUS SEND	BnH,63H,1EH,62H,rH,06H,mmH
VARIATION SEND	BnH,63H,1FH,62H,rH,06H,mmH
RPN LSB	BnH,64H
RPN MSB	BnH,65H
PITCH BEND SENS.	BnH,65H,00H,64H,00H,06H,mmH
FINE TUNING	BnH,65H,00H,64H,01H,06H,mmH, 26H,11H
COARSE TUNING	BnH,65H,00H,64H,02H,06H,mmH
NULL	BnH,65H,7FH,64H,7FH
ALL SOUND OFF	BnH,78H,00H
RESET ALL CONTROLLERS	BnH,79H,00H
ALL NOTES OFF	BnH,7BH
OMNI OFF	BnH,7CH
OMNI ON	BnH,7DH
MONO	BnH,7EH
POLY	BnH,7FH
PROGRAM CHANGE	CaH
CHANNEL AFTER TOUCH	DnH
PITCH BEND CHANGE	EnH
SYSTEM EXCLUSIVE MESSAGE	
<YAMAHA MIDI FORMAT>	
<UNIVERSAL>	
UNIVERSAL REALTIME	F0H 7FH.....F7H
UNIVERSAL NON-REALTIME	F0H 4EH.....F7H
<XG STANDARD>	
XG PARAMETER CHANGE	F0H 43H 1nH 4CH aaH aaH aaH ddHddH F7H
XG BULK DUMP	F0H 43H 0nH 4CH bbH bbH aaH aaHddH F7H
PARAMETER REQUEST	F0H 43H 1nH 4CH aaH aaH aaH F7H
DUMP REQUEST	F0H 43H 2nH 4CH aaH aaH aaH F7H
<CLAVINOVA MIDI COMPLIANCE>	
<SPECIAL OPERATORS>	
<Others>	
SYSTEM REALTIME MESSAGE	
MIDI CLOCK	F8H
START	FAH
STOP	FCH
ACTIVE SENSING	FEH

* PROGRAM NUMBER: XG SFX KIT number correspondence

P = 1 SFX1 Kit
P = 2 SFX2 Kit

When DRUM VOICE is selected and program change data for a different DRUM VOICE is received, the currently selected DRUM VOICE will be replaced with the new DRUM VOICE.

(3-1-4) CHANNEL AFTER TOUCH (Receive only)

STATUS 1101nnnn(DnH) n = 0 - 15 VOICE CHANNEL NUMBER
VALUE 0vvvvvvv v = 0 - 127 AFTER TOUCH VALUE

(3-1-5) PITCH BEND CHANGE

STATUS 1110nnnn(EnH) n = 0 - 15 VOICE CHANNEL NUMBER
LSB 0vvvvvvv PITCH BEND CHANGE LSB
MSB 0vvvvvvv PITCH BEND CHANGE MSB

(3-1-6) CONTROL CHANGE

STATUS 1011nnnn(BnH) n = 0 - 15 VOICE CHANNEL NUMBER
CONTROL NUMBER 0ccccccc
CONTROL VALUE 0vvvvvvv

* Transmit CONTROL NUMBER.

c = 0 BANK SELECT MSB ; v = 0: XG NORMAL, 64: SFX NORMAL, 126: XG SFX KIT, 127: XG DRUM
c = 32 BANK SELECT LSB ; v = 0 - 127 *3
c = 6 DATA ENTRY MSB ; v = 0 - 127 *1
c = 38 DATA ENTRY LSB ; v = 0 - 127 *1
c = 7 MAIN VOLUME ; v = 0 - 127
c = 10 PANPOT ; v = 0 - 127
c = 11 EXPRESSION ; v = 0 - 127
c = 64 SUSTAIN ; v = 0-63: OFF, 64-127: ON *2
c = 66 SOSTENUTO ; v = 0-63: OFF, 64-127: ON *2
c = 67 SOFT PEDAL ; v = 0-63: OFF, 64-127: ON *2
c = 91 REVERB SEND LEVEL ; v = 0 - 127
c = 94 VARIATION SEND LEVEL ; v = 0 - 127
(When only Connection = 1[System])

* Receive CONTROL NUMBER.

c = 0 BANK SELECT MSB ; v = 0: XG NORMAL, 64: SFX NORMAL, 126: XG SFX KIT, 127: XG DRUM
c = 32 BANK SELECT LSB ; v = 0 - 127 *3
c = 1 MODULATION ; v = 0 - 127 *2
c = 5 PORTAMENTO TIME ; v = 0 - 127 *2
c = 6 DATA ENTRY MSB ; v = 0 - 127 *1
c = 38 DATA ENTRY LSB ; v = 0 - 127 *1
c = 7 MAIN VOLUME ; v = 0 - 127
c = 10 PANPOT ; v = 0 - 127
c = 11 EXPRESSION ; v = 0 - 127
c = 64 SUSTAIN ; v = 0-63: OFF, 64-127: ON *2
c = 66 PORTAMENTO ; v = 0-63: OFF, 64-127: ON *2
c = 66 SOSTENUTO ; v = 0-63: OFF, 64-127: ON *2
c = 67 SOFT PEDAL ; v = 0-63: OFF, 64-127: ON *2
c = 71 HARMONIC CONTENT ; v = 0-64 - 64:0 - 127:+63 *2
c = 72 RELEASE TIME ; v = 0-64 - 64:0 - 127:+63 *2
c = 73 ATTACK TIME ; v = 0-64 - 64:0 - 127:+63 *2
c = 74 BRIGHTNESS ; v = 0-64 - 64:0 - 127:+63 *2
c = 84 PORTAMENTO CONTROL ; v = 0 - 127 *2
c = 91 REVERB SEND LEVEL ; v = 0 - 127
c = 93 CHORUS SEND LEVEL ; v = 0 - 127
c = 94 VARIATION SEND LEVEL ; v = 0 - 127
(When only Connection = 1[System])
c = 96 DATA INCREMENT ; v = 127 *1
c = 97 DATA DECREMENT ; v = 127 *1

*1 Only when setting the appointed parameter with RPN.

*2 Does not effect Rhythmic Voice.

*3 MSB=0, anything other than 63 is 0.

• Until a PROGRAM CHANGE message is received, the BANK SELECT operation will be suspended. When a Voice, including VOICE BANK, is changed, set the BANK SELECT and Program Change Message, and transmit in the following order, BANK SELECT MSB, LSB, PROGRAM CHANGE.

• MODULATION controls the Vibrato Depth.

• PORTAMENTO TIME controls the Pitch Change Speed when the Portamento Switch = ON. 0 being the shortest time, and 127 being the longest.

) TRANSMIT/RECEIVE DATA

-1) CHANNEL VOICE MESSAGES

(3-1-1) KEY OFF (Receive only)

STATUS 1000nnnn(8nH) n = 0 - 15 VOICE CHANNEL NUMBER
NOTE NUMBER 0kkkkkkk k = 0 (C-2) - 127 (G8)
VELOCITY 0vvvvvvv v: ignored

(3-1-2) KEY ON/OFF

STATUS 1001nnnn(9nH) n = 0 - 15 VOICE CHANNEL NUMBER
NOTE NUMBER 0kkkkkkk k = 0 (C-2) - 127 (G8)
VELOCITY 0vvvvvvv (v ≠ 0) NOTE ON
00000000 (v = 0) NOTE OFF

(3-1-3) PROGRAM CHANGE

STATUS 1110nnnn(CnH) n = 0 - 15 VOICE CHANNEL NUMBER
PROGRAM NUMBER 0ppppppp p = 0 - 127

* PROGRAM NUMBER: XG DRUM VOICE number correspondence

P = 1 Standard Kit
P = 2 Standard2 Kit
P = 9 Room Kit
P = 17 Rock Kit
P = 25 Electric Kit
P = 26 Analog Kit
P = 28 Dance Kit
P = 33 Jazz Kit
P = 41 Brush Kit
P = 49 Classic Kit

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- PANPOT changes the value for the melody voice and rhythm voice in relation to the preset value.
- Portamento time is fixed to 0 when the PORTAMENTO CONTROL is used.
- HARMONIC CONTENT applies adjustment to the resonance value that is set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. As values get higher the sound becomes increasingly eccentric. Note that for some voices the effective parameter range is narrower than the legal parameter range.
- RELEASE TIME applies adjustment to the envelope release time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.
- ATTACK TIME applies adjustment to the envelope attack time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.
- BRIGHTNESS applies adjustment to the cut-off frequency set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. Lower voices produce a softer sound. For some voices the effective parameter range is narrower than the legal parameter range.

(3-2) CHANNEL MODE MESSAGES

STATUS 1011nnnn(BnH) n = 0 - 15 VOICE CHANNEL NUMBER
 CONTROL NUMBER 0ccccccc c = CONTROL NUMBER
 CONTROL VALUE 0vvvvvvvv v = DATA VALUE

(3-2-1) ALL SOUND OFF (Receive only)

(CONTROL NUMBER = 78H, DATA VALUE = 0)

Switches off all sound from the channel. Does not reset Note On and Hold On conditions established by Channel Messages.

(3-2-2) RESET ALL CONTROLLERS (Receive only)

(CONTROL NUMBER = 79H, DATA VALUE = 0)

Resets controllers as follows.

PITCH BEND CHANGE 0 (Center)
 AFTER TOUCH 0 (min.)
 MODULATION 0 (min.)
 EXPRESSION 127 (max.)
 SUSTAIN 0 (off)
 SOSTENUTO 0 (off)
 SOFT PEDAL 0 (off)
 NRPN Sets number to null. (Internal data remains unchanged)
 RPN Sets number to null. (Internal data remains unchanged)
 PORTAMENTO CONTROL Resets portamento source note number
 PORTAMENTO 0 (off)

(3-2-3) ALL NOTES OFF (Receive only)

(CONTROL NUMBER = 78H, DATA VALUE = 0)

Switches off all of the channel's "on" notes. However, any notes being held by SUSTAIN or SOSTENUTO continue to sound until SUSTAIN/SOSTENUTO goes off.

(3-2-4) OMNI OFF (Receive only) (CONTROL NUMBER = 7CH, DATA VALUE = 0)

Same processing as for All Notes Off.

(3-2-5) OMNI ON (Receive only) (CONTROL NUMBER = 7DH, DATA VALUE = 0)

Same processing as for All Notes Off. Omni On is not executed.

(3-2-6) MONO (Receive only) (CONTROL NUMBER = 7EH, DATA VALUE = 0)

Same processing as for All Notes Off. If the 3rd byte is in a range of 0-16 the corresponding channel will be changed to Mode # (m=1).

(3-2-7) POLY (Receive only) (CONTROL NUMBER = 7FH, DATA VALUE = 0)

Same processing as for All Sounds Off and the corresponding channel will be changed to Mode 3.

(3-3) REGISTERED PARAMETER NUMBER(RPN)

STATUS 1011nnnn(BnH) n = 0 - 15 VOICE CHANNEL NUMBER
 LSB 01100100(64H)
 RPN LSB 0ppppppp p = RPN LSB(refer to the list below)
 MSB 01100101(65H)
 RPN MSB 0qqqqqqq q = RPN MSB(refer to the list below)
 DATA ENTRY MSB 00000110(06H)
 DATA VALUE 0mmmmmmm m = Data Value
 DATA ENTRY LSB 00100110(26H)
 DATA VALUE 0lllllll l = Data Value

First appoints the parameter for RPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.

RPN	D.ENTRY	PARAMETER NAME	DATA RANGE
00H 00H	nnnn --	PITCH BEND SENSITIVITY	00H - 18H (0 - 24 semitones)
01H 00H	nnnn IIII	FINE TUNE	(null,0H) = 00H,00H - 40H,00H - 17FH,7FH (-8192*100/8192) - 0 - (+8192*100/8192)
02H 00H	nnH --	COARSE TUNE	28H - 40H - 58H (-24 - 0 - +24 semitones)
7FH 7FH	-- --	NULL	

Clears the current RPN number setting. Does not change the internal parameter settings.

(3-4) NON-REGISTERED PARAMETER NUMBER(NRPN) (Receive only)

STATUS 1011nnnn(BnH) n = 0 - 15 VOICE CHANNEL NUMBER
 LSB 01100100(62H)
 RPN LSB 0ppppppp p = NRPN LSB(refer to the list below)
 MSB 01100011(63H)
 RPN MSB 0qqqqqqq q = NRPN MSB(refer to the list below)
 DATA ENTRY MSB 00000110(06H)
 DATA VALUE 0mmmmmmm m = Data Value

First appoints the parameter for NRPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.

NRPN	D.ENTRY	PARAMETER NAME	DATA RANGE
01H 08H	nnH --	VIBRATO RATE	00H - 40H - 7FH (-64 - 0 - +63)
01H 09H	nnH --	VIBRATO DEPTH	00H - 40H - 7FH (-64 - 0 - +63)
01H 0AH	nnH --	VIBRATO DELAY	00H - 40H - 7FH (-64 - 0 - +63)
01H 20H	nnH --	FILTER CUTOFF FREQUENCY	00H - 40H - 7FH (-64 - 0 - +63)
01H 21H	nnH --	FILTER RESONANCE	00H - 40H - 7FH (-64 - 0 - +63)
01H 61H	nnH --	EG ATTACK TIME	00H - 40H - 7FH (-64 - 0 - +63)
01H 64H	nnH --	EG DECAY TIME	00H - 40H - 7FH (-64 - 0 - +63)
01H 66H	nnH --	EG RELEASE	00H - 40H - 7FH (-64 - 0 - +63)
14H nH	nnH --	DRUM FILTER CUTOFF FREQ.	00H - 40H - 7FH (-64 - 0 - +63)
15H nH	nnH --	DRUM FILTER RESONANCE	00H - 40H - 7FH (-64 - 0 - +63)
16H nH	nnH --	DRUM AEG ATTACK RATE	00H - 40H - 7FH (-64 - 0 - +63)
17H nH	nnH --	DRUM AEG DECAY RATE	00H - 40H - 7FH (-64 - 0 - +63)
18H nH	nnH --	DRUM PITCH COARSE	00H - 40H - 7FH (-64 - 0 - +63)
19H nH	nnH --	DRUM PITCH FINE	00H - 40H - 7FH (-64 - 0 - +63)
1AH nH	nnH --	DRUM LEVEL	00H - 7FH (0 - max.)
1CH nH	nnH --	DRUM PANPOT	00H - 01H - 40H - 7FH (random, left - center - right)
1DH nH	nnH --	DRUM REVERB SEND LEVEL	00H - 7FH (0 - max.)
1EH nH	nnH --	DRUM CHORUS SEND LEVEL	00H - 7FH (0 - max.)
1FH nH	nnH --	DRUM VARIATION SEND LEVEL	00H - 7FH (0 - max.)

The MSG14H-1FH (for drums) message is accepted as long as the channel is set with a drum voice.

nH: drum instrument note number

(3-5) SYSTEM REALTIME MESSAGES

(3-5-1) MIDI CLOCK

STATUS 11110000 (F8H)

Transmission: 96 clocks per measure are transmitted.

Reception: If the instrument's clock is set to external, after FAH is received from the external device the instrument's clock will sync with the 96 beats per measure received from the external device.

Decides whether the internal clock, or Tuning Clocks received via the MIDI IN will be used.

(3-5-2) START

STATUS 11110100 (FAH)

Transmission: Transmitted when instrument's Rhythm or Song playback is started.

Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will start.

(3-5-3) STOP

STATUS 11111100 (FCH)

Transmission: Transmitted when instrument's Rhythm or Song playback is stopped.

Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will stop.

(3-5-4) ACTIVE SENSING

STATUS 11111110 (FEH)

Transmission: Transmitted approximately once every 200msec.

Reception: Sensing is started once this Code is received. If Status or Data is not received within 400ms, the MIDI Receive Buffer will be cleared, and all notes, including those being sustained, will be cut OFF. Also, all control values will be reset to their factory defaults.

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(3-6) SYSTEM EXCLUSIVE MESSAGE

(3-6-1) YAMAHA MIDI FORMAT

(3-6-1-1) SECTION CONTROL

binary	hexadecimal	Exclusive status
11110000	F0	YAMAHA ID
01000011	43	Style
01111110	7E	Switch No.
00000000	00	00H : INTRO A
00000000	00	01H-07H : INTRO B
00000000	00	08H : MAIN A
00000000	00	09H-0FH : MAIN B
00000000	00	10H : FILL IN AA
00000000	00	11H-17H : FILL IN BB
00000000	00	18H : FILL IN AB
00000000	00	19H-1FH : FILL IN BA
00000000	00	20H : ENDING A
00000000	00	21H-27H : ENDING B
00000000	00	Switch On/Off: 00H(Off), 7FH(On)
00000000	00	End of Exclusive

When an ON code is received, the appointed section will be changed.

(3-6-1-2) START/STOP CONTROL(Receive only)

binary	hexadecimal	Exclusive status
11110000	F0	YAMAHA ID
01000011	43	Substatus=6
01100000	6N	When N is received N=0-F, whichever is received.
00000000	00	When N is transmitted N always=0.
00000000	00	Message No.: 7AH(Reset Start), 7DH(Stop & Rewind)
00000000	00	End of Exclusive

The Style's START/STOP can be used in a song.

(3-6-1-3) TEMPO CONTROL

binary	hexadecimal	Exclusive status
11110000	F0	YAMAHA ID
01000011	43	Style
01111110	7E	Tempo4
00000000	00	Tempo3
00000000	00	Tempo2
00000000	00	Tempo1
00000000	00	End of Exclusive

The internal clock will be set to the received Tempo value.

Tempo Meta Event is a large data block (24-bit), it is divided into 4 groups with 7-bits going into each of the Tempos 1-4 (4 receives the remaining 3 bits).

(3-6-2) UNIVERSAL SYSTEM EXCLUSIVE

(3-6-2-1) UNIVERSAL REALTIME MESSAGE

(3-6-2-1-1) MIDI MASTER VOLUME (Receive only)

binary	hexadecimal	Exclusive status
11110000	F0	Universal Realtime
01111110	7F	ID of target Device
01111111	7F	Sub-ID #1=Device Control Message
00001001	04	Sub-ID #2=Master Volume
00000001	01	Volume LSB
00000000	00	Volume MSB
00000000	00	End of Exclusive
or		
11110000	F0	Exclusive status
01111110	7F	Universal Realtime
0xxxxxxx	XN	When N is received N=0-F, whichever is received.
00001001	04	Sub-ID #1=Device Control Message
00000001	01	Sub-ID #2=Master Volume
00000000	00	Volume LSB
00000000	00	Volume MSB
11110111	F7	End of Exclusive

The volume for all channels will be changed simultaneously.

The TT value is used as the MIDI Master Volume value. (the ss value is ignored.)

(3-6-2-2) UNIVERSAL NON REALTIME MESSAGE

(3-6-2-2-1) GENERAL MIDI SYSTEM ON

binary	hexadecimal	Exclusive status
11110000	F0	Universal Non-Realtime
01111110	7E	ID of target Device
00001001	09	Sub-ID #1=General MIDI Message
00000001	01	Sub-ID #2=General MIDI On
11110111	F7	End of Exclusive
or		
11110000	F0	Exclusive status
01111110	7E	Universal Non-Realtime
0xxxxxxx	XN	When N is received N=0-F, whichever is received.
00001001	09	Sub-ID #1=General MIDI Message
00000001	01	Sub-ID #2=General MIDI On
11110111	F7	End of Exclusive

Depending upon the received ON message, the System Mode will be changed to XG.

Except MIDI Master Tuning, all control data be reset to default values.

This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

(3-6-3) XG STANDARD

(3-6-3-1) XG PARAMETER CHANGE

(3-6-3-1-1) XG SYSTEM ON

binary	hexadecimal	Exclusive status
11110000	F0	YAMAHA ID
01000011	43	Device Number
01001100	4C	Model ID
00000000	00	Address High
00000000	00	Address Mid
01111110	7E	Address Low
00000000	00	Data
11110111	F7	End of Exclusive

Depending upon the received ON message, the SYSTEM MODE will be changed to XG. Controllers will be reset, all values of Multi Part and Effect, and All System values denoted by "XG" data within All System will be reset to default values in the table.

This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

(3-6-3-1-2) XG PARAMETER CHANGE

binary	hexadecimal	Exclusive status
11110000	F0	YAMAHA ID
01000011	43	Device Number
01001100	4C	Model ID
0xxxxxxx	AA	Address High
0xxxxxxx	AA	Address Mid
0xxxxxxx	AA	Address Low
00000000	00	Data
11110111	F7	End of Exclusive

For parameters with data size of 2 or 4, transmit the appropriate number of data bytes.

For more information on Address and Parameters, refer to < Table 1-2 > (page 51) and < Table 1-4 > ~ < Table 1-6 > (pages 52-55).

The 4 data types listed below are transmitted and received.

(These are transmitted only after a Parameter change request is received.)

XG System Data
Multi Effect Data
Multi Part Data
Drums Setup Data

(3-6-3-2) XG BULK DUMP

binary	hexadecimal	Exclusive status
11110000	F0	YAMAHA ID
01000011	43	Device Number
01001100	4C	Model ID
00000000	00	ByteCount
00000000	00	ByteCount
0xxxxxxx	AA	Address High
0xxxxxxx	AA	Address Mid
0xxxxxxx	AA	Address Low
00000000	00	Data
11110111	F7	End of Exclusive

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For more information on Address and Byte Count, refer to < Table 1-2 > ~ < Table 1-6 > (pages 51-55).

The Check Sum value is set such that the sum of Byte Count, Address, Data, and Check Sum has value zero in its seven least significant bits.
If the top of the block is appointed to the Address the XG Bulk Dump, Bulk Request will be received.

The Block is a unit that consists of the data, arranged in the list, as the Total Size.

The 5 data types listed below are transmitted and received.

(These are transmitted only after a Bulk Dump request is received.)

System Data
Multi Effect Data (Individual effect unit)
Multi Part Data (Individual part unit)
Drums Setup Data (Individual note unit)
System Information (Individual only)

(3-6-3-3) XG PARAMETER REQUEST (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0011nnnn	3n	Device Number
01001100	4C	Model ID
0nnnnnnn	AA	Address High
0nnnnnnn	AA	Address Mid
0nnnnnnn	AA	Address Low
11110111	F7	End of Exclusive

For more information on Address and Byte Count refer to < Table 1-2 > (page 51) and < Table 1-4 > ~ < Table 1-6 > (pages 52-55).

The 4 data types listed below are received.

System Data
Multi Effect Data
Multi Part Data
Drums Setup Data

(3-6-3-4) XG DUMP REQUEST (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0011nnnn	3n	Device Number
01001100	4C	Model ID
0nnnnnnn	AA	Address High
0nnnnnnn	AA	Address Mid
0nnnnnnn	AA	Address Low
11110111	F7	End of Exclusive

For more information on Address and Byte Count refer to < Table 1-2 > ~ < Table 1-6 > (pages 51-55).

The 5 data types listed below are received.

System Data
Multi Effect Data (Individual module unit)
Multi Part Data (Individual part unit)
Drums Setup Data (Individual note unit)
System Information

(3-6-4) CLAVINOVA MIDI COMPLIANCE

(3-6-4-1) INTERNAL CLOCK / EXTERNAL CLOCK (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
0000001n	0N	N: 2 (Internal Clock), 3 (External Clock)
11110111	F7	End of Exclusive

(3-6-4-2) DOC MULTI TIMBRE ON / OFF (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
00000110	1N	N: 3 (DOC Multi Timbre Off), 4 (DOC Multi Timbre On)
11110111	F7	End of Exclusive

(3-6-4-3) PANEL LED ON / OFF (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	45	CVP-98/96/94/92
00011010	1A	PANEL LED On/Off
0nnnnnnnn	MM	MM: 00H (LED Off), 01H (LED On), 02H (The LED flashes) 03H (LED All off), 04H (Panel LED returns to normal operation)

00000000	00	LED No.
0nnnnnnn	NN	End of Exclusive
11110111	F7	End of Exclusive

Remotely switches the Panel LED On/Off.

(3-6-4-4) STYLE NUMBER

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	45	CVP-98/96/94/92
00011101	1D	Style No.
00000000	00	
0ccccccc	CC	Style No. MSB
0ddddddd	DD	Style No. LSB
11110111	F7	End of Exclusive

(3-6-4-5) MIDI FA CANCEL (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
01100001	61	MIDI FA Cancel
11110111	F7	End of Exclusive

If this message is received, even if FAH is received the Rhythm will not start.

(3-6-5) SPECIAL OPERATORS

(3-6-5-1) SPLIT POINT

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	
00010100	14	Split Point
0ddddddd	DD	Split Key No.
11110111	F7	End of Exclusive

(3-6-5-2) FINGERING

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	
01000000	40	Fingering
0000dddd	DD	0D: 00H (Off), 01H (Single Finger), 02H (Fingered), 04H (Full Keyboard), 07H (Multi Finger)
11110111	F7	End of Exclusive

(3-6-5-3) ACCOMP VOLUME

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
0000nnnn	0N	N: 00H (All Part), 05H (Rhythm), 0AH (Bass), 06H (Chord), 0DH (Pad), 07H (Phrase)
01000000	42	Accomp Volume
0ddddddd	DD	Volume Data: 00H ~ 7FH
11110111	F7	End of Exclusive

(3-6-5-4) CHANNEL DETUNE

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	45	CVP-98/96/94/92 ID
00010001	11	Sub ID
0000nnnn	0N	N = MIDI Channel
01000011	43	Dual Detune
0vvvvvvv	VV	Value VV: 00H - 40H - 7FH (-64 - 0 - +63)
11110111	F7	End of Exclusive

The Channel Detune message only affects the specified channel.

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(3-6-5-5) VOLUME, EXPRESSION AND PAN REALTIME CONTROL OFF

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	45	CVP-98/96/94/92 ID
00010001	11	Sub ID
0000nnnn	0N	N = MIDI Channel
01001001	45	Volume and Expression Realtime Control Off
0vvvvvvv	VV	Value VV: 00H=on, 7FH=off
11110111	F7	End of Exclusive

When "On" is received, subsequent volume, expression, and PAN changes are only valid after the reception of the next key on. Normal operation resumes when "Off" is received.

(3-6-5-6) MIDI KEY LED MODE ON / OFF (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	
00010001	11	Sub ID
0000nnnn	0N	N = MIDI Channel
01000111	47	MIDI Key LED Mode On / Off
0ddddd	DD	DD: 00H(Key LED Mode Off), 01H(Key LED Mode On + no tone), 02H(Key LED Mode On + tone)
11110111	F7	End of Exclusive

(3-6-6) Others

(3-6-6-1) MIDI MASTER TUNING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1N	When N is received N=0-F, whichever is received.
00100111	27	Model ID
00110000	30	Sub ID
00000000	00	
00000000	00	
0mmmmmm	MM	Master Tune MSB
0lllll	LL	Master Tune LSB
0cccccc	CC	don't care
11110111	F7	End of Exclusive

Changes tuning of all channels.

MM, LL values are used to define the MIDI Master Tuning value.

$T = M - 128$

T : Tuning value (-99cent - +99cent)

M : A single byte value (28-228) consists of bytes 0-3 of MM = MSB, bytes 0-3 of LL = LSB.

In this setting, GM System ON, XG System ON will not be reset.

< Table 1-1 >

Parameter Basic Address

	Parameter Change Address			Description
	(H)	(M)	(L)	
SYSTEM	00	00	00	System
	00	00	7D	Drum Setup Reset
	00	00	7E	XG System On
	00	00	7F	All Parameter Reset
INFORMATION	01	00	00	System Information
EFFECT 1	02	01	00	Effect 1 (Reverb, Chorus, Variation)
MULTI PART	08	00	00	Multi Part 1
	08	0F	00	Multi Part 16
	08	10	00	Reserved
DRUM	30	0D	00	Drum Setup 1
	31	0D	00	Drum Setup 2
	32	0D	00	Reserved
	33	0D	00	Reserved
	34	0D	00	Reserved
	3F	nn	nn	Reserved

Address	Parameter
3n 0D 00	note number 13
3n 0E 00	note number 14
3n 5D 00	note number 93

< Table 1-2 >

MIDI Parameter Change table (SYSTEM)

Address (H)	Size	Data (H)	Parameter Name (H)	Description	Default	Value(H)
00	00	00	0000	Master Tune	-102.4...+102.3[cent]	00 04 00 00
		01	..07FF		1st bit3-0 -> bit15-12	(0400)
		02			2nd bit3-0 -> bit11-8	(With XG, GM On, it will not reset.)
		03			3rd bit3-0 -> bit7-4	
		04	00..7F	Master Volume	4th bit3-0 -> bit3-0	7F
	01			Not Used	0..127	
	06	1	28..58	Transpose	-24...+24[semitones]	40
	7D	n		Drum Setup Reset	n=Drum Setup Number	
	7E	00		XG System On	00=XG System on	
	7F	00		All Parameter Reset	00=on (receive only)	
TOTAL SIZE 6						

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< Table 1-3 >

MIDI Parameter table (System information)

Address (H)	Size (H)	Data (H)	Parameter Name (H)	Description
01	00	00	E	20..7F Model Name
		0D		32..127(ASCII)
		0E	1	00
		0F	1	00

TOTAL SIZE 10

(Transmitted by Dump Request. Not received. Bulk Dump Only)

< Table 1-4 >

MIDI Parameter Change table (EFFECT 1)

Address (H)	Size (H)	Data (H)	Parameter Name (H)	Description	Default	Value(H)
02	01	00	2	00..7F Reverb Type MSB	Refer to the Effect Type List	01(=HALL1)
				00..7F Reverb Type LSB	00 : basic type	00
		02	1	00..7F Reverb Parameter 1	Refer to the Ef. Parameter List	Depend on Reverb type
		03	1	00..7F Reverb Parameter 2	Refer to the Ef. Parameter List	Depend on Reverb type
		04	1	00..7F Reverb Parameter 3	Refer to the Ef. Parameter List	Depend on Reverb type
		05	1	00..7F Reverb Parameter 4	Refer to the Ef. Parameter List	Depend on Reverb type
		06	1	00..7F Reverb Parameter 5	Refer to the Ef. Parameter List	Depend on Reverb type
		07	1	00..7F Reverb Parameter 6	Refer to the Ef. Parameter List	Depend on Reverb type
		08	1	00..7F Reverb Parameter 7	Refer to the Ef. Parameter List	Depend on Reverb type
		09	1	00..7F Reverb Parameter 8	Refer to the Ef. Parameter List	Depend on Reverb type
		0A	1	00..7F Reverb Parameter 9	Refer to the Ef. Parameter List	Depend on Reverb type
		0B	1	00..7F Reverb Parameter 10	Refer to the Ef. Parameter List	Depend on Reverb type
		0C	1	00..7F Reverb Return	-∞..0,+6dB(0..96..127)	60
		0D	1	01..7F Reverb Pan	L63..C..R63(1..64..127)	40
TOTAL SIZE 0E						
02	01	10	1	00..7F Reverb Parameter 11	Refer to the Ef. Parameter List	Depend on Reverb type
		11	1	00..7F Reverb Parameter 12	Refer to the Ef. Parameter List	Depend on Reverb type
		12	1	00..7F Reverb Parameter 13	Refer to the Ef. Parameter List	Depend on Reverb type
		13	1	00..7F Reverb Parameter 14	Refer to the Ef. Parameter List	Depend on Reverb type
		14	1	00..7F Reverb Parameter 15	Refer to the Ef. Parameter List	Depend on Reverb type
		15	1	00..7F Reverb Parameter 16	Refer to the Ef. Parameter List	Depend on Reverb type
TOTAL SIZE 6						
02	01	20	2	00..7F Chorus Type MSB	Refer to the Effect Type List	41(=Chorus1)
				00..7F Chorus Type LSB	00 : basic type	00
		22	1	00..7F Chorus Parameter 1	Refer to the Ef. Parameter List	Depend on Chorus Type
		23	1	00..7F Chorus Parameter 2	Refer to the Ef. Parameter List	Depend on Chorus Type
		24	1	00..7F Chorus Parameter 3	Refer to the Ef. Parameter List	Depend on Chorus Type
		25	1	00..7F Chorus Parameter 4	Refer to the Ef. Parameter List	Depend on Chorus Type
		26	1	00..7F Chorus Parameter 5	Refer to the Ef. Parameter List	Depend on Chorus Type
		27	1	00..7F Chorus Parameter 6	Refer to the Ef. Parameter List	Depend on Chorus Type
		28	1	00..7F Chorus Parameter 7	Refer to the Ef. Parameter List	Depend on Chorus Type
		29	1	00..7F Chorus Parameter 8	Refer to the Ef. Parameter List	Depend on Chorus Type
		2A	1	00..7F Chorus Parameter 9	Refer to the Ef. Parameter List	Depend on Chorus Type
		2B	1	00..7F Chorus Parameter 10	Refer to the Ef. Parameter List	Depend on Chorus Type
		2C	1	00..7F Chorus Return	-∞..0,+6dB(0..96..127)	60
		2D	1	01..7F Chorus Pan	L63..C..R63(1..64..127)	40
		2E	1	00..7F Send Chorus To Reverb	-∞..0,+6dB(0..96..127)	00
TOTAL SIZE 0F						
02	01	30	1	00..7F Chorus Parameter 11	Refer to the Ef. Parameter List	Depend on Chorus Type
		31	1	00..7F Chorus Parameter 12	Refer to the Ef. Parameter List	Depend on Chorus Type
		32	1	00..7F Chorus Parameter 13	Refer to the Ef. Parameter List	Depend on Chorus Type
		33	1	00..7F Chorus Parameter 14	Refer to the Ef. Parameter List	Depend on Chorus Type
		34	1	00..7F Chorus Parameter 15	Refer to the Ef. Parameter List	Depend on Chorus Type
		35	1	00..7F Chorus Parameter 16	Refer to the Ef. Parameter List	Depend on Chorus Type
TOTAL SIZE 6						
02	01	40	2	00..7F Variation Type MSB	Refer to the Effect Type List	"05(=DELAY L,C,R)"
				00..7F Variation Type LSB	00 : basic type	00
		42	2	00..7F Vari. Param. 1 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F Vari. Param. 1 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		44	2	00..7F Vari. Param. 2 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F Vari. Param. 2 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		46	2	00..7F Vari. Param. 3 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F Vari. Param. 3 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		48	2	00..7F Vari. Param. 4 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F Vari. Param. 4 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type

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4A	2	00..7F	Vari. Param. 5 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
		00..7F	Vari. Param. 5 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
4C	2	00..7F	Vari. Param. 6 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
		00..7F	Vari. Param. 6 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
4E	2	00..7F	Vari. Param. 7 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
		00..7F	Vari. Param. 7 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
50	2	00..7F	Vari. Param. 8 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
		00..7F	Vari. Param. 8 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
52	2	00..7F	Vari. Param. 9 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
		00..7F	Vari. Param. 9 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
54	2	00..7F	Vari. Param. 10 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
		00..7F	Vari. Param. 10 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type		
56	1	00..7F	Variation Return	-∞..0..+6dB(0..96..127)	60		
57	1	01..7F	Variation Pan	L63..C..R63(1..64..127)	40		
58	1	00..7F	Send Vari. To Reverb	-∞..0..+6dB(0..96..127)	00		
59	1	00..7F	Send Vari. To Chorus	-∞..0..+6dB(0..96..127)	00		
5A	1	00..01	Variation Connection	0:insertion,1:system	00		
5B	1	00..1F	Variation Part	part1..32(0..31)..off(127)	7F		
5C	1	01..7F	MW Vari. Ctrl Depth	-63..+63	40		
5D	1	01..7F	PB Vari. Ctrl Depth	-63..+63	40		
5E	1	01..7F	CAT Vari. Ctrl Depth	-63..+63	40		
5F	1	01..7F	Not Used				
60	1	01..7F	Not Used				
TOTAL SIZE 21							
02	01	70	1	00..7F	Variation Parameter 11	option Parameter	Depend on Variation Type
		71	1	00..7F	Variation Parameter 12	option Parameter	Depend on Variation Type
		72	1	00..7F	Variation Parameter 13	option Parameter	Depend on Variation Type
		73	1	00..7F	Variation Parameter 14	option Parameter	Depend on Variation Type
		74	1	00..7F	Variation Parameter 15	option Parameter	Depend on Variation Type
		75	1	00..7F	Variation Parameter 16	option Parameter	Depend on Variation Type
TOTAL SIZE 6							

< Table 1-5 >

MIDI Parameter Change table (MULTI PART)

Address (H)	Size	Data (H)	Parameter Name (H)	Description	Default	Value(H)
08	nn	00	1	00..20	Element Reserve	0..32 0(Part10),2(Others)
	nn	01	1	00..7F	Bank Select MSB	0..127 7F(Part10),00(Others)
	nn	02	1	00..7F	Bank Select LSB	0..127 00
	nn	03	1	00..7F	Program Number	1..128 00
	nn	04	1	00..0F, 7F	Rev Channel	0..16:1..16,127:off Part No.
	nn	05	1	00..01	Mono/Poly Mode	0:mono,1:poly 01
	nn	06	1	00..02	Same Note Number Key On Assign	0:single 1:multi 2:inst (for DRUM) 00
	nn	07	1	00..02	Part Mode	0:normal 1..3:drum thru,drum1..2 00 (Except Part 10.) 01 (Part10)
	nn	08	1	28..58	Note Shift	-24..+24[semitones] 40
	nn	09	2	00..FF	Detune	-12.8..+12.7[Hz] 08 00 (80)
	nn	0A			1st bit3..0 → bit7..4 2nd bit3..0 → bit3..0	
	nn	0B	1	00..7F	Volume	0..127 64
	nn	0C	1	00..7F	Velocity Sense Depth	0..127 40
	nn	0D	1	00..7F	Velocity Sense Offset	0..127 40
	nn	0E	1	00..7F	Pan	0:random L63..C..R63(1..64..127) 40
	nn	0F	1	00..7F	Note Limit Low	C-2..G8 00
	nn	10	1	00..7F	Note Limit High	C-2..G8 7F
	nn	11	1	00..7F	Dry Level	0..127 7F
	nn	12	1	00..7F	Chorus Send	0..127 00
	nn	13	1	00..7F	Reverb Send	0..127 28
	nn	14	1	00..7F	Variation Send	0..127 00
	nn	15	1	00..7F	Vibrato Rate	-64..+63 40
	nn	16	1	00..7F	Vibrato Depth	-64..+63 40
	nn	17	1	00..7F	Vibrato Delay	-64..+63 40
	nn	18	1	00..7F	Filter Cutoff Freq.	-64..+63 40
	nn	19	1	00..7F	Filter Resonance	-64..+63 40
	nn	1A	1	00..7F	EG Attack Time	-64..+63 40
	nn	1B	1	00..7F	EG Decay Time	-64..+63 40
	nn	1C	1	00..7F	EG Release Time	-64..+63 40

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nn	1D	1	28.58	MW Pitch Control	-24...+24[semitones]	40
nn	1E	1	00.7F	MW Filter Control	-9600...+9450[cent]	40
nn	1F	1	00.7F	MW Amp. Control	-100...+100[%]	40
nn	20	1	00.7F	MW LFO PMod Depth	0...127	0A
nn	21	1	00.7F	MW LFO FMod Depth	0...127	00
nn	22	1	00.7F	MW LFO AMod Depth	0...127	00
nn	23	1	28.58	Bend Pitch Control	-24...+24[semitones]	42
nn	24	1	00.7F	Bend Filter Control	-9600...+9450[cent]	40
nn	25	1	00.7F	Bend Amp. Control	-100...+100[%]	40
nn	26	1	00.7F	Bend LFO PMod Depth	0...127	00
nn	27	1	00.7F	Bend LFO FMod Depth	0...127	00
nn	28	1	00.7F	Bend LFO AMod Depth	0...127	00
TOTAL SIZE 29						
nn	30			Not Used		
nn	40			Not Used		
nn	41	1	00.7F	Scale Tuning C	-64...+63[cent]	40
nn	42	1	00.7F	Scale Tuning C#	-64...+63[cent]	40
nn	43	1	00.7F	Scale Tuning D	-64...+63[cent]	40
nn	44	1	00.7F	Scale Tuning D#	-64...+63[cent]	40
nn	45	1	00.7F	Scale Tuning E	-64...+63[cent]	40
nn	46	1	00.7F	Scale Tuning F	-64...+63[cent]	40
nn	47	1	00.7F	Scale Tuning F#	-64...+63[cent]	40
nn	48	1	00.7F	Scale Tuning G	-64...+63[cent]	40
nn	49	1	00.7F	Scale Tuning G#	-64...+63[cent]	40
nn	4A	1	00.7F	Scale Tuning A	-64...+63[cent]	40
nn	4B	1	00.7F	Scale Tuning A#	-64...+63[cent]	40
nn	4C	1	00.7F	Scale Tuning B	-64...+63[cent]	40
nn	4D	1	28.58	CAT Pitch Control	-24...+24[semitones]	40
nn	4E	1	00.7F	CAT Filter Control	-9600...+9450[cent]	40
nn	4F	1	00.7F	CAT Amplitude Control	-100...+100[%]	40
nn	50	1	00.7F	CAT LFO PMod Depth	0...127	00
nn	51	1	00.7F	CAT LFO FMod Depth	0...127	00
nn	52	1	00.7F	CAT LFO AMod Depth	0...127	00
nn	53			Not Used		
nn	66			Not Used		
nn	67	1	00.01	Portamento Switch	off/on	00
nn	68	1	00.7F	Portamento Time	0...127	00
nn	69			Not Used		
nn	6E			Not Used		
TOTAL SIZE 3F						

nn = PartNumber

If there is a Drum Voice assigned to the Part, the following parameters are ineffective.

- Bank Select LSB
- Amp EG
- Portamento
- Soft Pedal
- Mono/Poly
- Scale Tuning

< Table 1-6 >

MIDI Parameter Change table (DRUM SETUP)

Address (H)	Size (H)	Data (H)	Parameter Name (H)	Description	Default	Value(H)
3n	rr	00	00.7F	Pitch Coarse	-64...+63	40
3n	rr	01	00.7F	Pitch Fine	-64...+63[cent]	40
3n	rr	02	00.7F	Level	0...127	Depend on the Note
3n	rr	03	00.7F	Alternate Group	0:off, 1:127	Depend on the Note
3n	rr	04	00.7F	Pan	0:random, 1:63, C, R63(1...64...127)	Depend on the Note
3n	rr	05	00.7F	Reverb Send Level	0...127	Depend on the Note
3n	rr	06	00.7F	Chorus Send Level	0...127	Depend on the Note
3n	rr	07	00.7F	Variation Send Level	0...127	7F
3n	rr	08	00.01	Key Assign	0:single, 1:midi	00
3n	rr	09	00.01	Rev Note Off	off/on	Depend on the Note
3n	rr	0A	00.01	Rev Note On	off/on	01

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3n	rr	0B	1	00..7F	Filter Cutoff Freq.	-64..63	40
3n	rr	0C	1	00..7F	Filter Resonance	-64..63	40
3n	rr	0D	1	00..7F	BG Attack Rate	-64..63	40
3n	rr	0E	1	00..7F	BG Decay1 Rate	-64..63	40
3n	rr	0F	1	00..7F	BG Decay2 Rate	-64..63	40

TOTAL SIZE 10

n: Drum Setup Number(0 - 1)

rr: note number(0DH - 54H)

If XG SYSTEM ON and/or GM On message is received, all Drum Setup Parameter will be reset to default values.

According to the Drum Setup Reset message, individual Drum Setup Parameters can be reset to default values.

< Table 1-7 > Effect Type List

XG ESSENTIAL EFFECT

Same as LSB=0

XG OPTION EFFECT

* If the received value does not contain an effect type in the TYPE LSB, The LSB will be directed to TYPE 0.

* Panel Effects are based on the "[Number] Effect Name".

REVERB TYPE

TYPE	TYPE LSB	01	02	03..07	08	09..15	16	17	18	19	20	21..
000	NO EFFECT											
001	[1]HALL1	[2]HALL2				[3]HALL3	[4]HALL4	[5]HALL5				
002	[6]ROOM1	ROOM2				[8]ROOM3	ROOM	ROOM		[9]ROOM4		
003	[10]STAGE1	[11]STAGE2				STAGE	[12]STAGE3					
004	[13]PLATE					PLATE	PLATE					
005..015	NO EFFECT											
016												
017												
018												
019												
020..127	NO EFFECT											

CHORUS TYPE

TYPE	TYPE LSB	01	02	03..07	08	09..15	16	17	18	19	20	21..
000	NO EFFECT											
001..064	NO EFFECT											
065	CHORUS1	CHORUS2	CHORUS3									
066	CELESTE1	CELESTE2	CELESTE3				CELESTE	CELESTE				
067	FLANGER 1	FLANGER2					FLANGER	FLANGER				
068..127	NO EFFECT											

VARIATION EFFECT TYPE

TYPE	TYPE LSB	01	02	03..07	08	09..15	16	17	18	19	20	21..
000	NO EFFECT											
001	[1]HALL1	[2]HALL2				[3]HALL3	HALL	HALL				
002	[4]ROOM1	ROOM2				[6]ROOM3	ROOM	ROOM	ROOM			
003	[7]STAGE1	[8]STAGE2				STAGE	[9]STAGE3					
004	PLATE					PLATE	PLATE					
005	DELAY L.C.R					[17]DELAY LCR						
006	[18]DELAY L.R											
007	[19]ECHO											
008	[20]CROSS DELAY											
009	ER1	ER2										
010	GATE REVERB											
011	REVERS GATE											
012..019	NO EFFECT											
020	KARAOKE 1	KARAOKE 2	KARAOKE 3									
021..063	NO EFFECT											
064	THRU											
065	CHORUS1	CHORUS2	CHORUS			CHORUS	[10]CHORUS1	[22]ROTARY FAST	[23]ROTARY SLOW			
066	[13]CELESTE	[12]CHORUS3	CELESTE3			[14]FLANGER	FLANGER					
067	FLANGER 1	FLANGER				[15]SYMPHONIC						
068	SYMPHONIC					Rotary Sp						
069	ROTARY SP.					[21]TREMOLO	Rotary Sp					
070	TREMOLO					[16]AUTO PAN	Rotary Sp	Rotary Sp	Tremolo	Gtr Tremolo		
071	AUTO PAN											
072	[24]PHASER											
073	DISTORTION											
074	OVER DRIVE											
075	AMP SIM.											
076	3BAND EQ						DIST.HARD	DIST.SOFT				
077	2BAND EQ						EQ DISCO	EQ TEL				
078	AUTO WAH						[25]WAH					
079..127	THRU											

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PARTS LIST

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Note) DESTINATION ABBREVIATIONS

J : Japanese model	A : Australian model
U : U. S. A. model	E : European model
C : Canadian model	D : German model
X : General model	B : British model
M : South African model	I : Indonesian model
H : North European model	

- The numbers in "QTY" show quantities for each unit.
- The parts with "--" in "PART NO." are not available as spare parts.

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■ ELECTRICAL PARTS

REF. NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ランク
		ELECTRICAL PARTS	電 気 部 品	CVP-92		
	VU342300	Circuit Board	AEXL88 L	(XR775C0)	12	
	VU342400	Circuit Board	AEXL88 H	(XR776C0)	13	
	VV516000	Circuit Board	DM	(XS780B0)		
	VY637800	Circuit Board	EQ	(XT121C0)		
	—	Circuit Board	FU60	J VT15140(XQ395A0)		
	—	Circuit Board	FU60	U VT15150(XQ395A0)		
	—	Circuit Board	FU60	B,E VT15160(XQ395A0)		
	—	Circuit Board	FU60	X VT15290(XQ395A0)		
	VT478400	Circuit Board	HP	(XQ795A0)	10	
	VY715100	Circuit Board	JACK1	(XR598C0)		
	—	Circuit Board	MA60	J,U (VT14390, XQ393E0)		
	—	Circuit Board	MA60	B,E,X (VT14400, XQ393E0)		
	VY636000	Circuit Board	MIC	J (XT119B0)		
	VU466600	Circuit Board	PEDAL	(XR780B0)	06	
	VN637600	Circuit Board	PL	(XL151B0)	05	
	VV516300	Circuit Board	PN1A	(XS781B0)		
	VV516400	Circuit Board	PN1B	(XS781B0)		
	VV516500	Circuit Board	PN3A	(XS781B0)		
	VV516600	Circuit Board	PN3B	(XS781B0)		
	VV516700	Circuit Board	MV	(XS781B0)		
	VV515900	Circuit Board	PN2	(XS782B0)		
	VU342300	Circuit Board	AEXL88 L	(XR775C0)	12	
	XR632A00	IC	YMZ702-D	KSN2	09	
	VB390400	Connector Base Post	PH- 8P TE	コネクタベースポスト	01	
	VB390500	Connector Base Post	PH- 9P TE	コネクタベースポスト	03	
	VB390800	Connector Base Post	PH-12P TE	コネクタベースポスト	01	
	VB941200	Diode	1SS133,1SS176	ダイオード	01	
	—	Dust Proof Cloth	不 織 布	(VU45960)		
C1	F6644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F	01	
C2	F6644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F	01	
C3	F6644100	Ceramic Capacitor-F	0.0100 50V Z	セラコン F	01	
C5	VF760000	Electrolytic Cap.	100.00 10.0V	ケミコン K S	01	
J1	VD041700	Jumper Wire	0.55	ジャンパー 線		
J2	VD041700	Jumper Wire	0.55	ジャンパー 線		
R1	HF759100	Carbon Resistor	1.0M 1/4 J	カーボン 抵抗	01	
R2	HF755100	Carbon Resistor	100.0 1/4 J	カーボン 抵抗	01	
R3	HF755100	Carbon Resistor	100.0 1/4 J	カーボン 抵抗	01	
R4	HF756100	Carbon Resistor	1.0K 1/4 J	カーボン 抵抗	01	
CL1	VI653000	Ceramic Resonator	CST4.00MGW040	セラミック 振動子	01	
RA1	VU483500	Resistor Array	RGLD12X103J	抵抗 アレイ	01	
	VU342400	Circuit Board	AEXL88 H	(XR776C0)	13	
	VB390500	Connector Base Post	PH- 9P TE	コネクタベースポスト	03	
	VB390800	Connector Base Post	PH-12P TE	コネクタベースポスト	01	
	VB941200	Diode	1SS133,1SS176	ダイオード	01	
	—	Dust Proof Cloth	不 織 布	(VU45980)		
	VV516000	Circuit Board	DM	(XS780B0)		
	XF291A00	IC	UPC4570G2	C OP AMP	03	
	XJ598A00	IC	NJM78L05UA	C REGULATOR +5V	02	
	XN086A00	IC	NJM79L05UA	C REGULATOR -5V	02	
	XS516A00	IC	UPC2933T	C REGULATOR +3.3V	02	
	XC724A00	IC	SN74HC02NSR	C NOR	01	
	XC727A00	IC	SN74HC139NSR	C DECODER	02	
	XE165A00	IC	SN74HC00NSR	C NAND	01	
	XL112A00	IC	SN74HC132NS-R	C NAND	03	
	XS048A00	IC	HD74LVC139FP	C DECODER	03	
	XI939A00	IC	HD63266F	C FDC	09	
	XQ595A00	IC	SED1335F0B	C LCDC	08	
	XS724A00	IC	TC203C060AF-001	C SWP00M	09	
	XS762A00	IC	UPD71051GU-10-E2	C SERIAL CONTROLLER	06	
	XS936A00	IC	HD6437043E00F	C CPU	11	
	XN279C00	IC	M5M5258DFP-70LL	C SRAM 256K	07	
	XQ586A00	IC	KM416C256BLT-7	C DRAM 4M	16	
	XS438A00	IC	M5M44260CTP-7	C DRAM 4M	16	
	XS444A00	IC	M5M44260CTP-7	C DRAM 4M	16	
	XS507A00	IC	LH64256BK-70	C DRAM 256K	08	
	XS915A00	IC	LH64256CK-70	C DRAM 256K	08	

* New Parts (新規部品)

ランク : Japan only

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REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ランク
	XS937100	IC	LHMV55N0	WAVE 1 MASK ROM 32M		14
	XS938100	IC	LHMV75YD	WAVE 2 MASK ROM 16M		10
	XS942100	IC	LH537U0Y	STYLE1 MASK ROM 16M		
	XS943100	IC	LH538U0R	STYLE2 MASK ROM 8M		
	XS944E00	IC		MAIN L, EPROM 8M		
	XS945E00	IC		MAIN H, EPROM 8M		
	XP551A00	IC	PCM1702U	D/A CONVERTER		08
	VJ927200	Transistor	2SA1162 Q,Y			01
	VV556400	Transistor	2SC2412K Q,R,S			01
	VB493900	Diode	MA221			01
	VU172000	Zener Diode	UDZ 5.6BTE-17 5.6V	ツェナーダイオード		01
	VU172800	Zener Diode	UDZ 12B TE-17 12V	ツェナーダイオード		01
	US061100	Ceramic Capacitor-CH (chip)	10P 50V D	チップセラ C H		01
	US061270	Ceramic Capacitor-CH (chip)	27P 50V J	チップセラ C H		01
	US062100	Ceramic Capacitor-SL (chip)	100P 50V J	チップセラ S L		01
	US062330	Ceramic Capacitor-SL (chip)	330P 50V J	チップセラ S L		01
	US062470	Ceramic Capacitor-SL (chip)	470P 50V J	チップセラ S L		01
	US063120	Ceramic Capacitor-B (chip)	1200P 50V K	チップセラ B		01
	US063220	Ceramic Capacitor-B (chip)	2200P 50V K	チップセラ B		01
	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K	チップセラ B		01
	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z	チップセラ F		01
	UF017220	Electrolytic Cap. (chip)	22 6.3V	チップケミコン		01
	UF017470	Electrolytic Cap. (chip)	47 6.3V	チップケミコン		01
	UF037100	Electrolytic Cap. (chip)	10 16V	チップケミコン		01
	UF038100	Electrolytic Cap. (chip)	100 16V	チップケミコン		01
	UF066100	Electrolytic Cap. (chip)	1 50V	チップケミコン		01
	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3	チップケミコン		01
	UF265470	Electrolytic Cap.-BP (chip)	0.47 50V	チップB Pコン		01
	VI055000	Super Capacitor	0.100F 5.5V FYD0H	スーパーキャパシタ		04
	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ		01
	RD350000	Carbon Resistor (chip)	0 63M J	チップ抵抗		01
	RD255470	Carbon Resistor (chip)	470.0 0.1 J	チップ抵抗		01
	RD355100	Carbon Resistor (chip)	100 63M J	チップ抵抗		01
	RD355220	Carbon Resistor (chip)	220 63M J	チップ抵抗		01
	RD355330	Carbon Resistor (chip)	330 63M J	チップ抵抗		01
	RD355680	Carbon Resistor (chip)	680 63M J	チップ抵抗		01
	RD356100	Carbon Resistor (chip)	1.0K 63M J	チップ抵抗		01
	RD356150	Carbon Resistor (chip)	1.5K 63M J	チップ抵抗		01
	RD356220	Carbon Resistor (chip)	2.2K 63M J	チップ抵抗		01
	RD356270	Carbon Resistor (chip)	2.7K 63M J	チップ抵抗		01
	RD356330	Carbon Resistor (chip)	3.3K 63M J	チップ抵抗		01
	RD356560	Carbon Resistor (chip)	5.6K 63M J	チップ抵抗		01
	RD356820	Carbon Resistor (chip)	8.2K 63M J	チップ抵抗		01
	RD357100	Carbon Resistor (chip)	10K 63M J	チップ抵抗		01
	RD357220	Carbon Resistor (chip)	22K 63M J	チップ抵抗		01
	RD357470	Carbon Resistor (chip)	47K 63M J	チップ抵抗		01
	RD358470	Carbon Resistor (chip)	470K 63M J	チップ抵抗		01
	RD359100	Carbon Resistor (chip)	1.0M 63M J	チップ抵抗		01
	VT685200	Quartz Crystal Unit	33.8688M SMD-49	水晶振動子		04
	VV762900	Quartz Crystal Unit	7M SMD-49	水晶振動子		03
	VQ274900	Ceramic Resonator	16M CSACS16.00MX24	セラミック振動子		03
	VV905100	Ceramic Resonator	CSTCC4.00MG0H6-TC	セラミック振動子		01
	VB390200	Connector Base Post	PH- 6P TE	コネクタベースポスト		01
	VB390300	Connector Base Post	PH- 7P TE	コネクタベースポスト		01
	VB390400	Connector Base Post	PH- 8P TE	コネクタベースポスト		01
	VB390700	Connector Base Post	PH-11P TE	コネクタベースポスト		01
	VB390800	Connector Base Post	PH-12P TE	コネクタベースポスト		01
	VQ391300	Connector	34P TE	コネクタ		03
	VK863100	IC Socket	DICF-42CS-E	ICソケット		03
	VY637800	Circuit Board	EQ	E Q シート	(XT121C0)	
	XF291A00	IC	UPC4570G2	OP AMP		03
	XT131A00	IC	LA6517M-TE-R	OP AMP		04
	XL252A00	IC	M5227FP	EQUALIZER		03
	VV556400	Transistor	2SC2412K Q,R,S	トランジスタ		01
	VB493900	Diode	MA221	ダイオード		01
	UA352100	Mylar Capacitor	100P 50V J	マイラコン		01
	UA353680	Mylar Capacitor	6800P 50V J	マイラコン		01
	UA353820	Mylar Capacitor	8200P 50V J	マイラコン		01
	UA354220	Mylar Capacitor	0.0220 50V J	マイラコン		01

* New Parts (新規部品)

ランク: Japan only

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REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	ランク
	UA354330	Mylar Capacitor	0.0330 50V J	マ イ ラ ー コ ン			01
	UA354560	Mylar Capacitor	0.0560 50V J	マ イ ラ ー コ ン			01
	VE326000	Monolithic Mylar Capacitor	0.10 50V J	積 層 マ イ ラ ー コ ン			01
	VE326100	Monolithic Mylar Capacitor	0.12 50V J	積 層 マ イ ラ ー コ ン			01
	VE326500	Monolithic Mylar Capacitor	0.27 50V J	積 層 マ イ ラ ー コ ン			01
	VR168300	Monolithic Mylar Capacitor	ECQ-V1H104JL3	積 層 マ イ ラ ー コ ン			01
	VR168400	Monolithic Mylar Capacitor	ECQ-V1H124JL3	積 層 マ イ ラ ー コ ン			01
	VR168900	Monolithic Mylar Capacitor	ECQ-V1H274JL3	積 層 マ イ ラ ー コ ン			01
	UB013100	Monolithic Ceramic Cap.	B 1000P 50V K	チ ャ ッ プ 積 層 セ ラ コ ン			01
	UB013150	Monolithic Ceramic Cap.	B 1500P 50V K	チ ャ ッ プ 積 層 セ ラ コ ン			01
	UB052120	Monolithic Ceramic Cap.	SL 120P 50V J	チ ャ ッ プ 積 層 セ ラ コ ン			01
	UB052560	Monolithic Ceramic Cap.	SL 560P 50V J	チ ャ ッ プ 積 層 セ ラ コ ン			01
	UB044100	Monolithic Ceramic Cap.	F 0.010 50V Z	チ ャ ッ プ 積 層 セ ラ コ ン			01
	UJ838100	Electrolytic Cap.	100.00 16.0V	ケ ミ コ ン			01
	UJ866100	Electrolytic Cap.	1.00 50.0V	ケ ミ コ ン			01
	UN847470	Electrolytic Cap.-BP	47.00 25.0V	B P ケ ミ コ ン			01
	VT733400	Coil	SBT-0210T 10 uH	コ イ ル 1 0 u H			02
	VR243700	Chip Inductance	56U LEM2520 T 560J	巻 線 チ ャ ッ プ イ ン ダ ク タ			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J	チ ャ ッ プ 抵 抗			01
	RD254330	Carbon Resistor (chip)	33.0 0.1 J	チ ャ ッ プ 抵 抗			01
	RD255470	Carbon Resistor (chip)	470.0 0.1 J	チ ャ ッ プ 抵 抗			01
	RD256100	Carbon Resistor (chip)	1.0K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD256150	Carbon Resistor (chip)	1.5K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD256270	Carbon Resistor (chip)	2.7K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD256330	Carbon Resistor (chip)	3.3K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD256390	Carbon Resistor (chip)	3.9K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD256470	Carbon Resistor (chip)	4.7K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD257120	Carbon Resistor (chip)	12.0K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD257150	Carbon Resistor (chip)	15.0K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD257180	Carbon Resistor (chip)	18.0K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD257220	Carbon Resistor (chip)	22.0K 0.1 J	チ ャ ッ プ 抵 抗			01
	RD257390	Carbon Resistor (chip)	39.0K 0.1 J	チ ャ ッ プ 抵 抗			01
	KC001900	Relay	DC RY12W	リ レ ー 1 2 V			07
	VL406800	Relay	DC G5V-2	リ レ ー 1 2 V			05
	VR745400	Relay	DC G5V-2-H1	リ レ ー 1 2 V			04
	VS115400	Phone Jack	LGR4609-7000 BL	ホ ー ン コ ネ ク タ (黒)	AUX IN/OUT		01
	VB390000	Connector Base Post	PH- 4P TE	コ ネ ク タ ベ ー ス ポ ス ト			01
	VB390300	Connector Base Post	PH- 7P TE	コ ネ ク タ ベ ー ス ポ ス ト			01
	VB390400	Connector Base Post	PH- 8P TE	コ ネ ク タ ベ ー ス ポ ス ト			01
	VB390500	Connector Base Post	PH- 9P TE	コ ネ ク タ ベ ー ス ポ ス ト			03
	VB390800	Connector Base Post	PH-12P TE	コ ネ ク タ ベ ー ス ポ ス ト			01
	VD041700	Jumper Wire	0.55	ジ ャ ン パ ー 線			03
	VG925900	Cable, Earth		ア ー ス 束 線 1 0 0 mm			03
	—	Circuit Board	FU60	F U 6 0 シ ー ト	J VT15140(XQ395A0)		04
	—	Circuit Board	FU60	F U 6 0 シ ー ト	U VT15150(XQ395A0)		02
	—	Circuit Board	FU60	F U 6 0 シ ー ト	B,E VT15160(XQ395A0)		01
	—	Circuit Board	FU60	F U 6 0 シ ー ト	X VT15290(XQ395A0)		01
	VT139600	Voltage Selector	M1694-B	電 圧 切 替 器	X		04
	VT308100	AC Inlet	CCT9302-0101M	A C イ ン レ ッ ト 2 P	J,B,E,X		02
	VT308200	AC Inlet	CCT9302-0201	A C イ ン レ ッ ト 2 P	U		02
	LB201530	Fuse Holder	PC-PH1	ヒ ュ ー ズ ホ ル ダ			01
	F1383470	Capacitor	4700P 400V U.C.S.V	規 格 認 定 コ ン			01
	VT575200	Capacitor	0.01 400V J.U.C.S	規 格 認 定 コ ン K C			01
	VF790900	Coil	SU10V-D200 10 uH	コ イ ル 1 0 u H			01
	LB932030	Base Post Connector	VH- 3P TE	ベ ー ス ポ ス ト			01
	LB932060	Base Post Connector	VH- 6P TE	ベ ー ス ポ ス ト			01
	VD041700	Jumper Wire	0.55	ジ ャ ン パ ー 線			01
F1	KB003060	Fuse	TL 1.60A	ヒ ュ ー ズ	B,E		01
F1	KB003590	Fuse	T 3.00A	ヒ ュ ー ズ	J,U,X		01
F3	KB003060	Fuse	TL 1.60A	ヒ ュ ー ズ	X		01
J1	VD041700	Jumper Wire	0.55	ジ ャ ン パ ー 線	J,U,B,E		01
	VT478400	Circuit Board	HP	H P シ ー ト	(XQ795A0)		10
	VE659000	Semiconductive Cera. Cap.	0.1000 25V Z	半 導 体 セ ラ コ ン			01
	VB971100	Coil	FL5R200QN 20 uH	コ イ ル 2 0 u H			01
	YK992200	Carbon Resistor	68.0 1/2 J	カ ー ボ ン 抵 抗			01
	LB101870	Phone Jack	YKB21-5006	ホ ー ン コ ネ ク タ	PHONES		03
	LB919020	Base Post Connector	XH- 2P SE	ベ ー ス ツ キ ポ ス ト			01

* New Parts (新規部品)

ランク : Japan only

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REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ラング
	VB858100	Connector Base Post	PH- 2P SE	コネクタベースポスト		01
	VB858600	Connector Base Post	PH- 7P SE	コネクタベースポスト		01
	VD041700	Jumper Wire	0.55	ジャンパー線		
	VY715100	Circuit Board	JACK1	J A C K 1 シート (XR598C0)		
	IG142250	IC	SN74HCU04N	I C	INVERTER	01
	XP094A00	IC	MC34051P	I C	LINE TRANSCEIVER	05
	IC174070	Transistor	2SC1740S R,S	ト ラ ン ジ ス タ		01
	VB941200	Diode	1SS133,1SS176	ダ イ オード		01
	VD473200	Photo Coupler	6N137	フ ォ ト カ プ ラ		05
	F6844100	Ceramic Capacitor-F	0.0100 50V Z	セ ラ コ ン F		01
	UJ837100	Electrolytic Cap.	10.00 16.0V	ケ ミ コ ン		01
	UN817470	Electrolytic Cap.-BP	47.00 6.3V	B P ケ ミ コ ン		01
	VB835000	Coil	FL5R200QNT 20 uH	コ イ ル 2 0 u H		01
	GE300670	Ferrite Bead	BL02RN2-R62T4	フ ェ ラ イ ト ビーズ		02
	HF755100	Carbon Resistor	100.0 1/4 J	カ ー ボ ン 抵 抗		01
	HF755220	Carbon Resistor	220.0 1/4 J	カ ー ボ ン 抵 抗		01
	HF756100	Carbon Resistor	1.0K 1/4 J	カ ー ボ ン 抵 抗		01
	HF756150	Carbon Resistor	1.5K 1/4 J	カ ー ボ ン 抵 抗		01
	HF757100	Carbon Resistor	10.0K 1/4 J	カ ー ボ ン 抵 抗		01
	HF757220	Carbon Resistor	22.0K 1/4 J	カ ー ボ ン 抵 抗		01
	VQ665200	Slide Switch	SSSF144-S06N-0	ス ラ イ ド ス W	HOST SELECT	03
	VT202500	DIN Connector	5P YKF51-50	D I N コ ネ ク タ	MIDI IN/OUT	01
	VM761000	DIN Connector	DIN-8P MD-S810	複 合 コ ネ ク タ	TO HOST	03
	VB390300	Connector Base Post	PH- 7P TE	コネクタベースポスト		01
	VD041700	Jumper Wire	0.55	ジャンパー線		
	VG925900	Cable, Earth	アース線 100mm	アース線 100mm		03
	—	Grounding Metal	PU	アース金具	(BB00576)	
	—	Circuit Board	MA60	M A 6 0 シート	J,U (VT14390,XQ393E0)	
	—	Circuit Board	MA60	M A 6 0 シート	B,E,X (VT14400,XQ393E0)	
	XL972A00	IC	STK401-040	I C	POWER AMPLIFIER	08
	XD343A00	IC	NJM79M12FA	I C	REGULATOR -12V	03
	XJ602A00	IC	NJM78M12FA	I C	REGULATOR +12V 0.5A	02
	XQ437A00	IC	SI-3051N	I C	REGULATOR +5V	03
	XQ667A00	IC	M5237L	I C	REGULATOR +5V	02
	VJ828100	Transistor	2SA1451 O,Y	ト ラ ン ジ ス タ		
	IC1815M0	Transistor	2SC1815 Y,GR	ト ラ ン ジ ス タ		01
	VB481900	Diode	11ES4	ダ イ オード		01
	VK421800	Diode Stack	D5SBA20 6.0A 200V	ダイオードスタック		
	VQ111500	Diode Stack	D3SBA20-4103 4.0A	ダイオードスタック		03
	F6613100	Ceramic Capacitor-B	1000P 50V K	セ ラ コ ン B		01
	VA302600	Ceramic Capacitor-E	0.0100 500V P	セ ラ コ ン (E)		01
	UJ838100	Electrolytic Cap.	100.00 16.0V	ケ ミ コ ン		01
	UJ866100	Electrolytic Cap.	1.00 50.0V	ケ ミ コ ン		01
	UJ866330	Electrolytic Cap.	3.30 50.0V	ケ ミ コ ン		01
	UJ868100	Electrolytic Cap.	100.00 50.0V	ケ ミ コ ン		01
	VL232400	Electrolytic Cap.	3300 35.0V	ケ ミ コ ン		04
	VU642700	Electrolytic Cap.	4700 16.0V	ケ ミ コ ン		03
	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z	半 導 体 セ ラ コ ン		01
	HF754560	Carbon Resistor	56.0 1/4 J	カ ー ボ ン 抵 抗		01
	HF755220	Carbon Resistor	220.0 1/4 J	カ ー ボ ン 抵 抗		01
	HF755560	Carbon Resistor	560.0 1/4 J	カ ー ボ ン 抵 抗		01
	HF756100	Carbon Resistor	1.0K 1/4 J	カ ー ボ ン 抵 抗		01
	HF756330	Carbon Resistor	3.3K 1/4 J	カ ー ボ ン 抵 抗		01
	HF757100	Carbon Resistor	10.0K 1/4 J	カ ー ボ ン 抵 抗		01
	VG742500	Metal Oxide Film Resistor	10.0 1W J	酸 化 金 属 被 膜 抵 抗		01
	HW095100	Fuse Resistor	100.0 1/4 J	ヒ ュー ズ 抵 抗		01
	KB003630	Fuse	T 5.00A JU	ヒ ュー ズ	J,U	01
	KB003240	Fuse	TL 5.00A S	ヒ ュー ズ	E,B,X	01
	VK881200	Relay	DC G5Z-2A-YA	リレー 1 2 V		
	LB918030	Base Post Connector	XH- 3P TE	ベースツキポスト		01
	LB932040	Base Post Connector	VH- 4P TE	ベースポスト		01
	LB932050	Base Post Connector	VH- 5P TE	ベースポスト		01
	VB390300	Connector Base Post	PH- 7P TE	コネクタベースポスト		01
	VB390500	Connector Base Post	PH- 9P TE	コネクタベースポスト		03
	VP206500	Fuse Holder	EYF-52BC	ヒューズホルダ		01
	VT443500	Support, PCB	T=8	三端子用スプーサー		03
	VT740000	Support, PCB	3T-9 T=9	三端子用スプーサー		03
	VJ834500	Insulation Sheet		放熱シート (パワー)		

* New Parts (新規部品)

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REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY
	VD041700	Jumper Wire	0.55	ジャンパー線	
	VY636000	Circuit Board	MIC	J (XT119B0)	05
	XT129A00	IC	BA7725FS-E2	COMPANDER	01
	XJ597A00	IC	NJM78L09A	REGULATOR +9V	01
	XT130A00	IC	BU9252F-E2	DIGITAL DELAY	05
	VU171900	Zener Diode	UDZ 5.1BTE-17 5.1V	ツェナーダイオード	01
	UB012680	Monolithic Ceramic Cap.	B 680P 50V K	チップ積層セラコン	01
	UB012820	Monolithic Ceramic Cap.	B 820P 50V K	チップ積層セラコン	01
	UB013100	Monolithic Ceramic Cap.	B 1000P 50V K	チップ積層セラコン	01
	UB013220	Monolithic Ceramic Cap.	B 2200P 50V K	チップ積層セラコン	01
	UB013560	Monolithic Ceramic Cap.	B 5600P 50V K	チップ積層セラコン	01
	UB044100	Monolithic Ceramic Cap.	F 0.010 50V Z	チップ積層セラコン	01
	UB044150	Monolithic Ceramic Cap.	F 0.015 50V Z	チップ積層セラコン	01
	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z	チップ積層セラコン	01
	UJ828100	Electrolytic Cap.	100.00 10.0V	ケミコン	01
	UJ865470	Electrolytic Cap.	0.47 50.0V	ケミコン	01
	UJ867220	Electrolytic Cap.	22.00 50.0V	ケミコン	01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J	チップ抵抗	01
	RD255330	Carbon Resistor (chip)	330.0 0.1 J	チップ抵抗	01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J	チップ抵抗	01
	RD256330	Carbon Resistor (chip)	3.3K 0.1 J	チップ抵抗	01
	RD256390	Carbon Resistor (chip)	3.9K 0.1 J	チップ抵抗	01
	RD256470	Carbon Resistor (chip)	4.7K 0.1 J	チップ抵抗	01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J	チップ抵抗	01
	RD257330	Carbon Resistor (chip)	33.0K 0.1 J	チップ抵抗	01
	RD257560	Carbon Resistor (chip)	56.0K 0.1 J	チップ抵抗	01
	VF668800	Coil	SBT-0260TF 60uH	コイル S B 6 0 u H	01
	VR243700	Chip Inductance	56U LEM2520 T 560J	巻線チップインダクタ	01
	VY643900	Rotary Variable Resistor	B10KX2 RK097232000	ロータリー V R	06
	VJ958100	Ceramic Resonator	CSB455E	セラロック	03
	LB101870	Phone Jack	YKB21-5006	ホーンコネクタ	03
	VB858300	Connector Base Post	PH- 4P SE	コネクタベースポスト	01
	VD041700	Jumper Wire	0.55	ジャンパー線	
	VU466600	Circuit Board	PEDAL	ペダルシート	06
	VB390200	Connector Base Post	PH- 6P TE	コネクタベースポスト	01
	VD041700	Jumper Wire	0.55	ジャンパー線	
	VN637600	Circuit Board	PL	P L シート	06
	VB858100	Connector Base Post	PH- 2P SE	コネクタベースポスト	01
	VD180000	LED	SLZ-190B-03 RE	L E D	01
	VV516300	Circuit Board	PN1A	P N 1 A シート	01
	VV516400	Circuit Board	PN1B	P N 1 B シート	01
	VV516500	Circuit Board	PN3A	P N 3 A シート	01
	VV516600	Circuit Board	PN3B	P N 3 B シート	01
	VV516700	Circuit Board	MV	M V シート	01
	VB941200	Diode	1SS133,1SS176	ダイオード	01
	VT392600	LED	SEL4225R TP2 RE	L E D	01
	VT393400	LED	SEL4725Y TP2 YE	L E D	01
	VT425100	LED	SLZ-190B-17-T1 RE	L E D	01
	VK368700	Slide Variable Resistor	B 10.0K RS30111A9	スライド V R	03
	VK369000	Slide Variable Resistor	A10KX2 RS30112A9	二速スライド V R	03
	VQ371700	Tact Switch	SKHVBLO42A H=7	タクト S W	01
	VB858200	Connector Base Post	PH- 3P SE	コネクタベースポスト	01
	VB858700	Connector Base Post	PH- 8P SE	コネクタベースポスト	01
	VB858900	Connector Base Post	PH-10P SE	コネクタベースポスト	01
	VC166500	Connector Base Post	PH-12P SE	コネクタベースポスト	01
	—	GND Wire	CVP59-79	アース束線	
	VA078900	Jumper Wire	0.55	ジャンパー線	
	VV515900	Circuit Board	PN2	P N 2 シート	06
	XS711100	IC	MN101C027	I C CPU	01
	VT817300	Digital Transistor	DTB113ZS TP	デジタルトランジスタ	01
	VH885000	Transistor Array	TD62785P SOURCE	トランジスタアレイ	04
	VJ041400	Transistor Array	TD62381P	トランジスタアレイ	04
	VB941200	Diode	1SS133,1SS176	ダイオード	01
	VT392600	LED	SEL4225R TP2 RE	L E D	01
	VT393400	LED	SEL4725Y TP2 YE	L E D	01

* New Parts (新規部品)

ランク : Japan only

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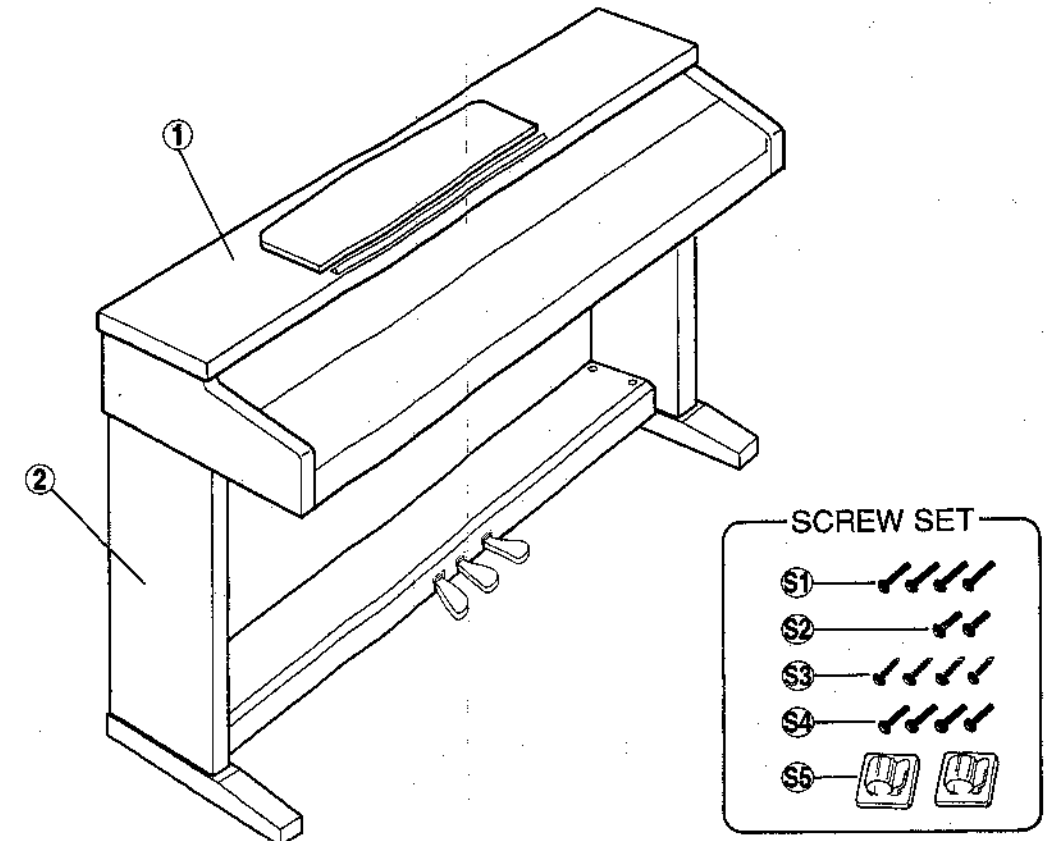
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OVERALL ASSEMBLY

REF. NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY
VT425100	LED	SLZ-190B-17-T1 RE	L E D		01
VT425300	LED	SLZ-290B-17-T1 GR	L E D		01
F6644100	Ceramic Capacitor-F	0.0100 50V Z	セラミックコンデンサ		01
U1528100	Electrolytic Cap.	100.00 10.0V	ケミコン		01
HF755100	Carbon Resistor	100.0 1/4 J	カーボン抵抗		01
HF756680	Carbon Resistor	6.8K 1/4 J	カーボン抵抗		01
HF757270	Carbon Resistor	27.0K 1/4 J	カーボン抵抗		01
VF771900	Resistor Array	RGLE8X103J	抵抗アレイ		01
VF773500	Resistor Array	RGLE4X103J	抵抗アレイ		01
V0371700	Tact Switch	SKHVBL042A H=7	タクトスイッチ		01
VU481300	Rotary Encoder	REB161 PVB 15F	16形エンコーダ		03
VB389600	Connector Base Post	PH-11P SE	コネクタベースポスト		01
VB858700	Connector Base Post	PH-8P SE	コネクタベースポスト		01
VB858900	Connector Base Post	PH-10P SE	コネクタベースポスト		01
VC166500	Connector Base Post	PH-12P SE	コネクタベースポスト		01
VE222400	Ceramic Resonator	8 MHz EFO-FC8004A4	セラミック発振子		03
VS368200	Rotary Variable Resistor	B10.0K RK09K1130BN	ロータリーVR 1連	CONTRAST (VT19590)	01
VA078900	Connector Assembly	DS-DS 3P-50L	D S - D S 束線		
	Jumper Wire	0.55	ジャンパー線		
VT015700	AC Cord Set	2P 2.5m 7A	電源コードセット J		05
VT015800	AC Cord Set	2P 2.44m 7A	電源コードセット U		06
VT016000	AC Cord Set	2P 2.5m	電源コードセット B		08
VT015900	AC Cord Set	2P 2.5m	電源コードセット EX		05
VK726100	Connector	CCT5902	電源コネクタ X		03
XR748A00	Power Transformer	GA60J	電源トランス J		12
XR748B00	Power Transformer	GA60J	電源トランス U		12
VU908200	Power Transformer Assembly	CLP-511 U	トランスアッセンブリ U		17
XR750B00	Power Transformer	GA60E IEC65 E	電源トランス B,E		14
XR751A00	Power Transformer	GA60N IEC65 E	電源トランス X		12
XR751B00	Power Transformer	GA60N IEC65 E	電源トランス X		12
VT152000	FU60 Assembly		F U 6 0 A s s ' y J		10
VT152100	FU60 Assembly		F U 6 0 A s s ' y U		10
VT152200	FU60 Assembly		F U 6 0 A s s ' y B,E		10
VT153300	FU60 Assembly		F U 6 0 A s s ' y X		12
VT144300	MA60 Assembly		M A 6 0 A s s ' y J		
VT144300	MA60 Assembly		M A 6 0 A s s ' y U		
VT144400	MA60 Assembly		M A 6 0 A s s ' y B,E,X		
VC843500	Push Switch	SDDL1216A J.U.C.S	プッシュスイッチ	POWER switch	03
XQ740A00	Speaker	18.0cm 8ohm 30W	スピーカ		08
VT300900	LCD	EDMMR03D00	液晶ディスプレイモジュール		16
VV982200	Floppy Disk Drive	DF354H034A	3.5" FDD ALPS		16
VV853600	Connector Assembly	FDD-SIG	FDD-SIG束線		09
VV652000	Connector Assembly	FDD	FDD電源束線		
VU374600	Connector Assembly	PK	P K ケーブル		09

* New Parts (新規部品)

ランク: Japan only



REF. NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY
1	—	OVERALL ASSEMBLY	総 組 立	CVP-92	
1	—	Main Unit	メインユニット J	(VV67670)	
1	—	Main Unit	メインユニット U	(VV67680)	
1	—	Main Unit	メインユニット B	(VV67690)	
1	—	Main Unit	メインユニット E	(VV67700)	
1	—	Main Unit	メインユニット X	(VV67710)	
2	—	Stand Assembly	スタンドアッセンブリ	(VV67770)	
		ACCESSORIES	付属品		
	VT015700	AC Cord Set	電源コードセット J		05
	VT015800	AC Cord Set	電源コードセット U		06
	VT016000	AC Cord Set	電源コードセット B		08
	VT015900	AC Cord Set	電源コードセット EX		05
	VG176500	Floppy Disk	フロッピーディスク		07
	VV686300	Japanese Guide Sheet	和文シートセット		
	VV688100	Floppy Disk	MUSIC DISK J		04
	VV688200	Floppy Disk	MUSIC DISK U,B,E,X		04
	—	Bench	椅子	(VU42180)	
	—	Bench	椅子	(VU67740)	
	—	Screw Set	ネジセット		
	—	Top Cover	トップカバー	U,B,E,X	
	VK726100	Connector	電源コネクタ X		
		SCREW SET	ネジセット	(VV68540)	
S1	VU711900	Truss Head Screw	+トラス小ネジ		4 01
S2	VP367300	Truss Head Screw	+トラス小ネジ		2 01
S3	VR321000	PW Head Tapping Screw-1	+P W H T P 1種		4 01
S4	EG360020	Bind Head Screw	+バインド小ネジ		4 01
S5	VR410300	Cord Clamp Set	コードクランプセット		

* New Parts (新規部品)

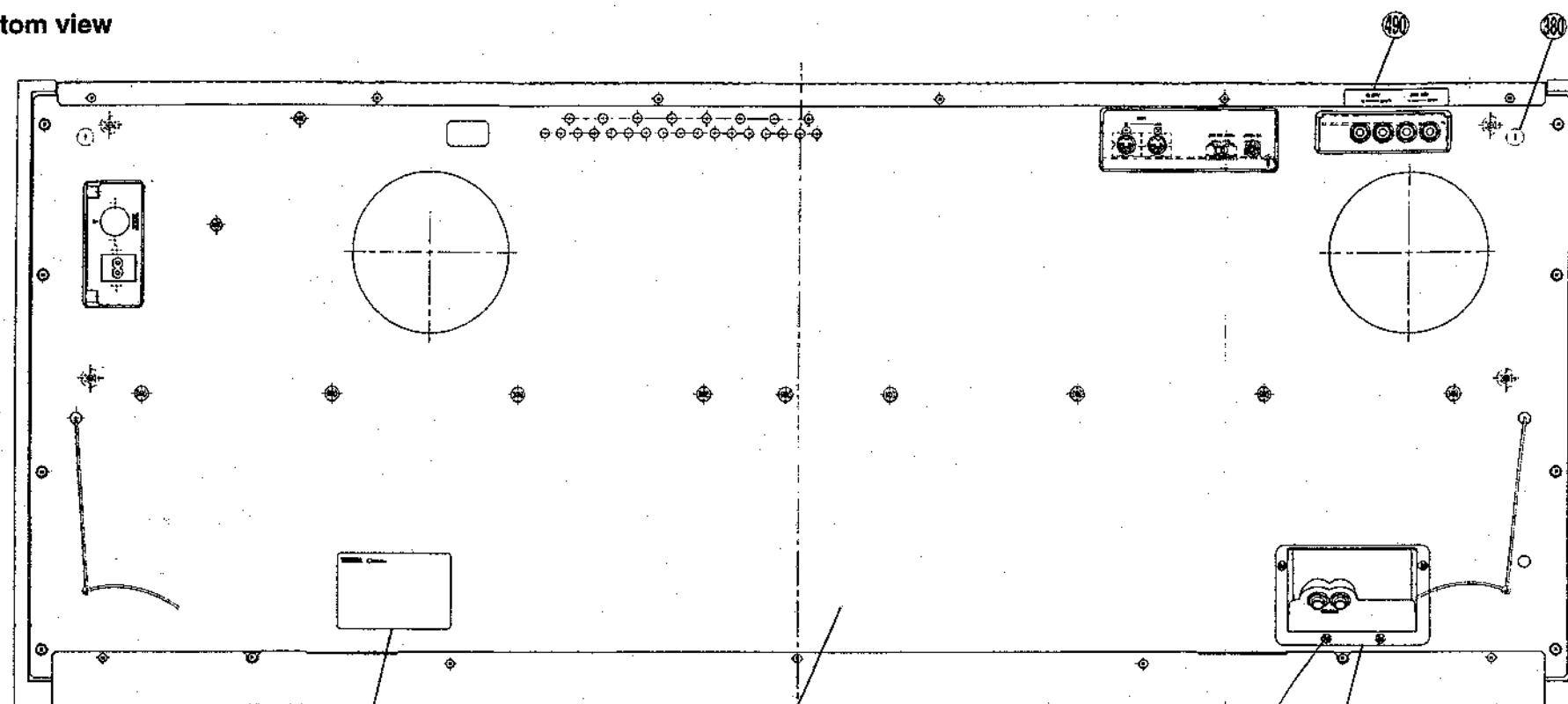
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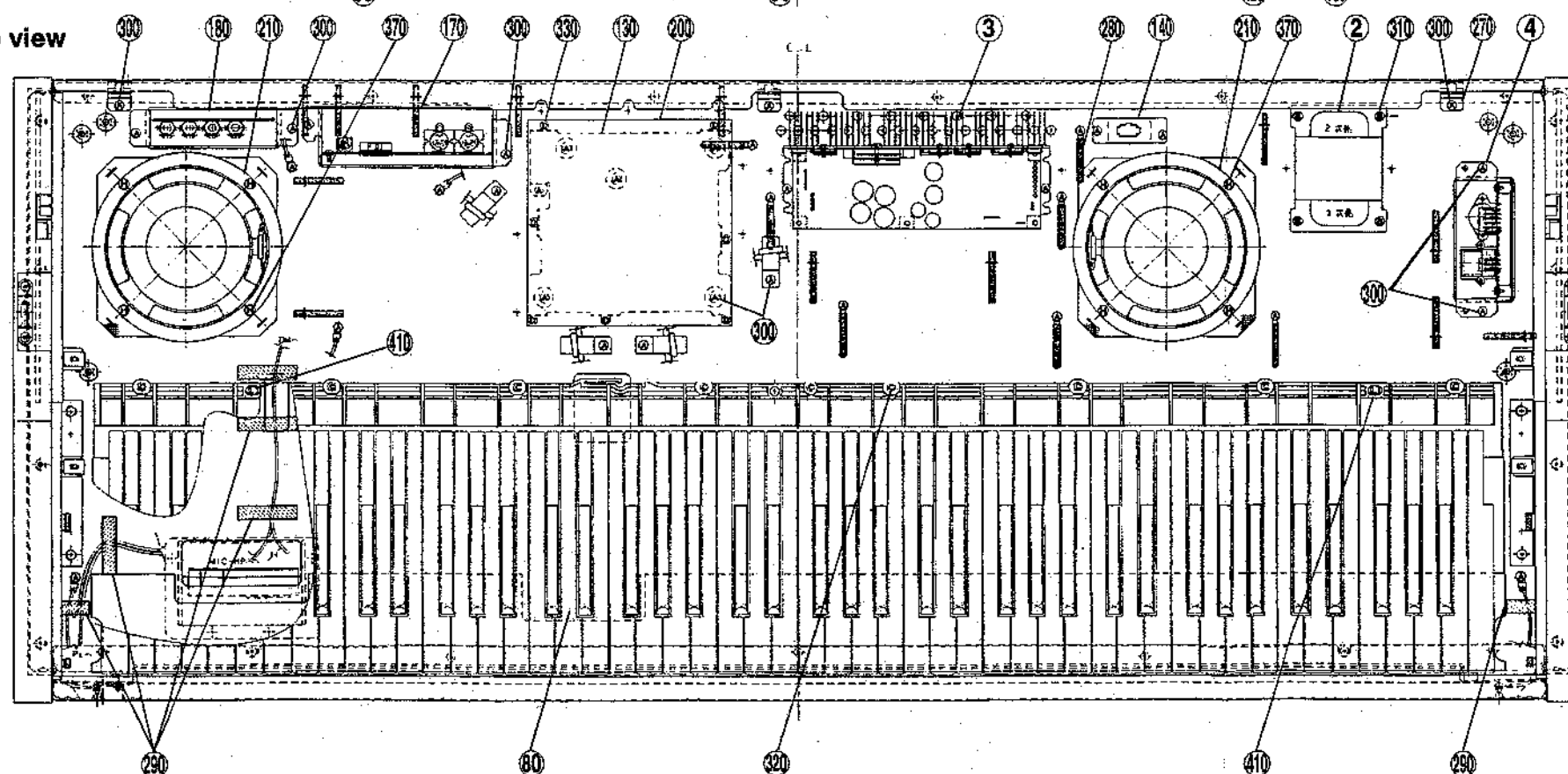
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■ MAIN UNIT 1/2

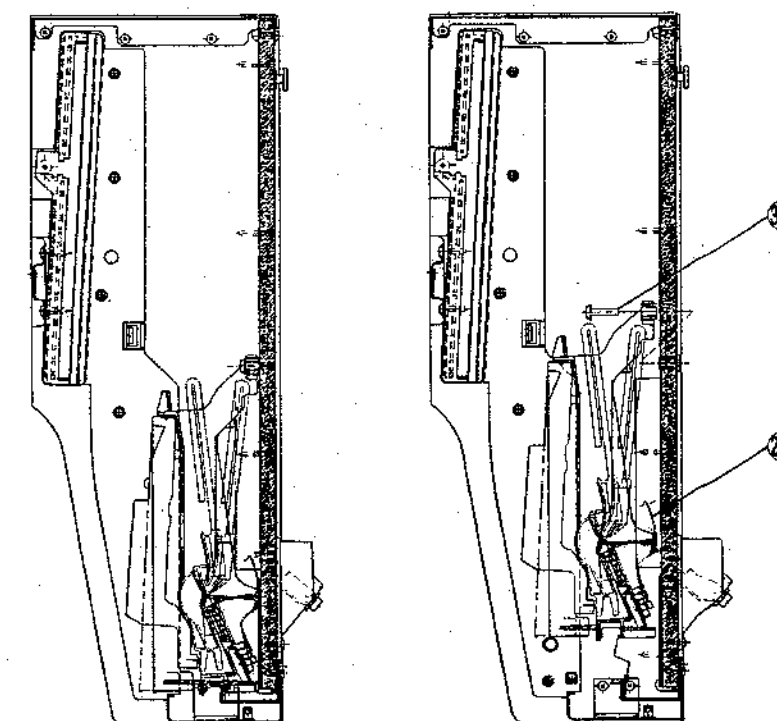
● Bottom view



● Top view



● Side view



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REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ランク
	---	MAIN UNIT	メ イ ン ユ ニ ッ ト	CVP-92		
	---	Main Unit	メ イ ン ユ ニ ッ ト	J (VV67670)		
	---	Main Unit	メ イ ン ユ ニ ッ ト	U (VV67680)		
	---	Main Unit	メ イ ン ユ ニ ッ ト	B (VV67690)		
	---	Main Unit	メ イ ン ユ ニ ッ ト	E (VV67700)		
	---	Main Unit	メ イ ン ユ ニ ッ ト	X (VV67710)		
2	XR748A00	Power Transformer	電 源 ト ラ ン ス	J	12	
2	XR748B00	Power Transformer	電 源 ト ラ ン ス	J	12	
2	VU908200	Power Transformer Assembly	ト ラ ン ス A s s ' y	U	17	
2	XR750B00	Power Transformer	電 源 ト ラ ン ス	B,E	14	
2	XR751A00	Power Transformer	電 源 ト ラ ン ス	X	12	
2	XR751B00	Power Transformer	電 源 ト ラ ン ス	X	12	
3	VT144300	MA60 Assembly	MA 6 0 A s s ' y	J		
3	VT144300	MA60 Assembly	MA 6 0 A s s ' y	U		
3	VT144400	MA60 Assembly	MA 6 0 A s s ' y	B,E,X		
4	VT152000	FU60 Assembly	F U 6 0 A s s ' y	J	10	
4	VT152100	FU60 Assembly	F U 6 0 A s s ' y	U	10	
4	VT152200	FU60 Assembly	F U 6 0 A s s ' y	B,E	10	
4	VT153300	FU60 Assembly	F U 6 0 A s s ' y	X	12	
10	---	Music Rest Assembly	譜 面 板 A s s ' y			(VV69340)
20	VV693900	Top Board Assembly	屋 根 A s s ' y (国内)	J,E		
20	VV694000	Top Board Assembly	屋 根 A s s ' y (海外)	U,B,X		
30	---	Upper Case Assembly	上 部 本 体 集 成			(VV69700)
40	---	End Block Assembly	拍 子 木 A s s ' y	L		(VV60330)
50	---	End Block Assembly	拍 子 木 A s s ' y	R		(VV60320)
60	---	Control Panel Assembly	コ ン パ ネ A s s ' y			(VV69550)
70	---	FDD Assembly	F D D A s s ' y			(VV69570)
80	VU431800	Keyboard Assembly	GH鍵盤 A s s ' y	B8	73	
95	VT475700	Cover, MA	M A カ バ ー	U	07	
96	VU348800	Cover, FU	F U カ バ ー	U	06	
98	---	Graphic Mark	グ ラ フ ィ ッ ク マ ー ク	U		(VB95140)
99	---	Name Plate	銘 板	J		(VV68870)
99	---	Name Plate	銘 板	J		(VV66730)
99	---	Name Plate	銘 板	U		(VV68880)
99	---	Name Plate	銘 板	U		(VV66740)
99	---	Name Plate	銘 板	B		(VV68890)
99	---	Name Plate	銘 板 (前)	E		(VV68900)
99	---	Name Plate	銘 板	X		(VV68920)
100	VV936800	Key Cover Assembly	ス ラ イ ド 蓋 A s s ' y	J,E		
110	VG900500	Grease	フ ロ イ ル			
120	VT215100	Rack Cover	ラ ッ ク カ バ ー	J	2	03
130	VV614500	Holder, DM P.C.B.	D M シ ー ト 固 定 金 具			06
140	VN891200	Connector Panel	コ ネ ク タ ー パ ネ ル			03
160	VT501000	Label	A C I N L E T ラ ベ ル			03
170	---	D-JACK Assembly	D-JACK A s s ' y			(VV98110)
180	---	A-JACK Assembly	A-JACK A s s ' y			(VV63610)
190	---	Mic. & Phones Unit	M I C-H P J ユ ニ ッ ト	J		(VV66490)
190	---	Headphones Jack Unit	H P J ユ ニ ッ ト	U,C,B,E		(VT47940)
200	VV516000	Circuit Board	D M シ ー ト			(XS780B0)
205	VV997700	Shield Cover, DM	D M シ ー ル ド カ バ ー	U		
210	XQ740A00	Speaker	ス ピ ー カ		2	06
270	V1338600	Earth Plate	ア ー ス 金 具		3	03
280	GB817510	Cord Binder	束 線 止 め		7	03
290	VP834600	Adhesive Tape	粘 着 テ ー プ		7	02
300	EP030340	Bind Head Tapping Screw-1	+ バ イ ン ド T P 1 種	U	13	01
310	EG340210	Bind Head Screw	+ バ イ ン ド 小 ネ ジ	B,E,X	4	01
320	VV040700	Pan Head Screw	+ ナ ベ 小 ネ ジ		9	01
330	EP600250	Bind Head Tapping Screw-B	+ バ イ ン ド B タ イ ト		7	01
340	EP600240	Bind Head Tapping Screw-B	+ バ イ ン ド B タ イ ト		4	01
350	EP030310	Bind Head Tapping Screw-1	+ バ イ ン ド T P 1 種		4	01
360	EG340360	Bind Head Screw	+ バ イ ン ド 小 ネ ジ		3	01
370	EX000850	Truss Head Tapping Screw-1	+ ト ラ ス ト P 1 種		8	
380	VN887900	Guide Screw	ガ イ ド ス ク リ ュ		2	03
390	EP030240	Bind Head Tapping Screw-1	+ バ イ ン ド T P 1 種	For protect string fixing	2	01
400	VK348200	Cup Screw	カ ッ プ ス ク リ ュ	U	4	01
410	VR804500	Bind Head Tapping Screw-1	+ バ イ ン ド T P 1 種		2	
420	EP030250	Bind Head Tapping Screw-1	+ バ イ ン ド T P 1 種		4	01
490	---	A-JACK Label	A-JACK ラ ベ ル			(VV97150)
500	---	Connector Assembly	M K-L F 束 線			(VV65230)
510	---	Connector Assembly	P K-L F 束 線			(VV65260)

* New Parts (新規部品)

ランク : Japan only

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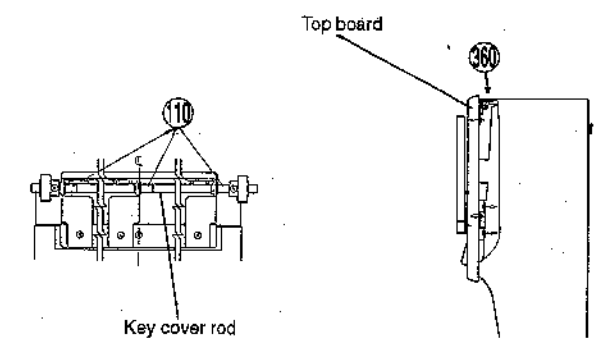
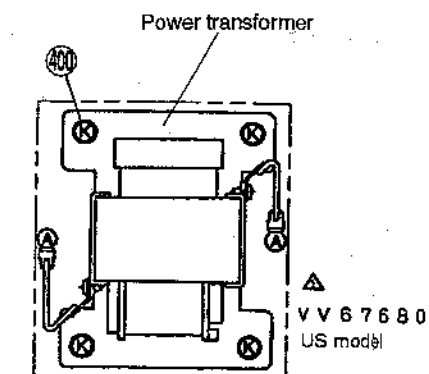
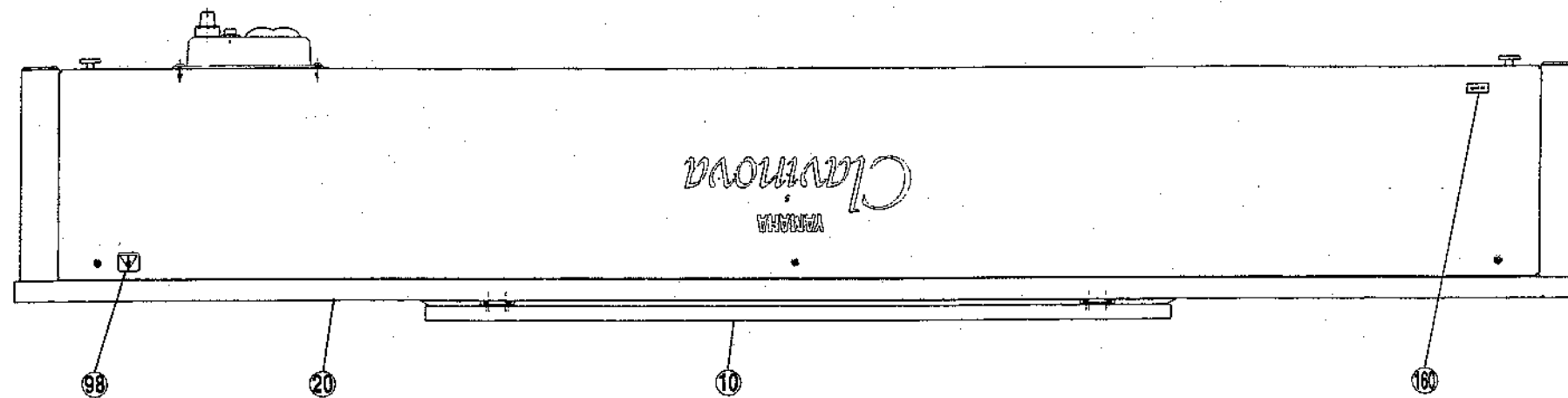
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CVP-92

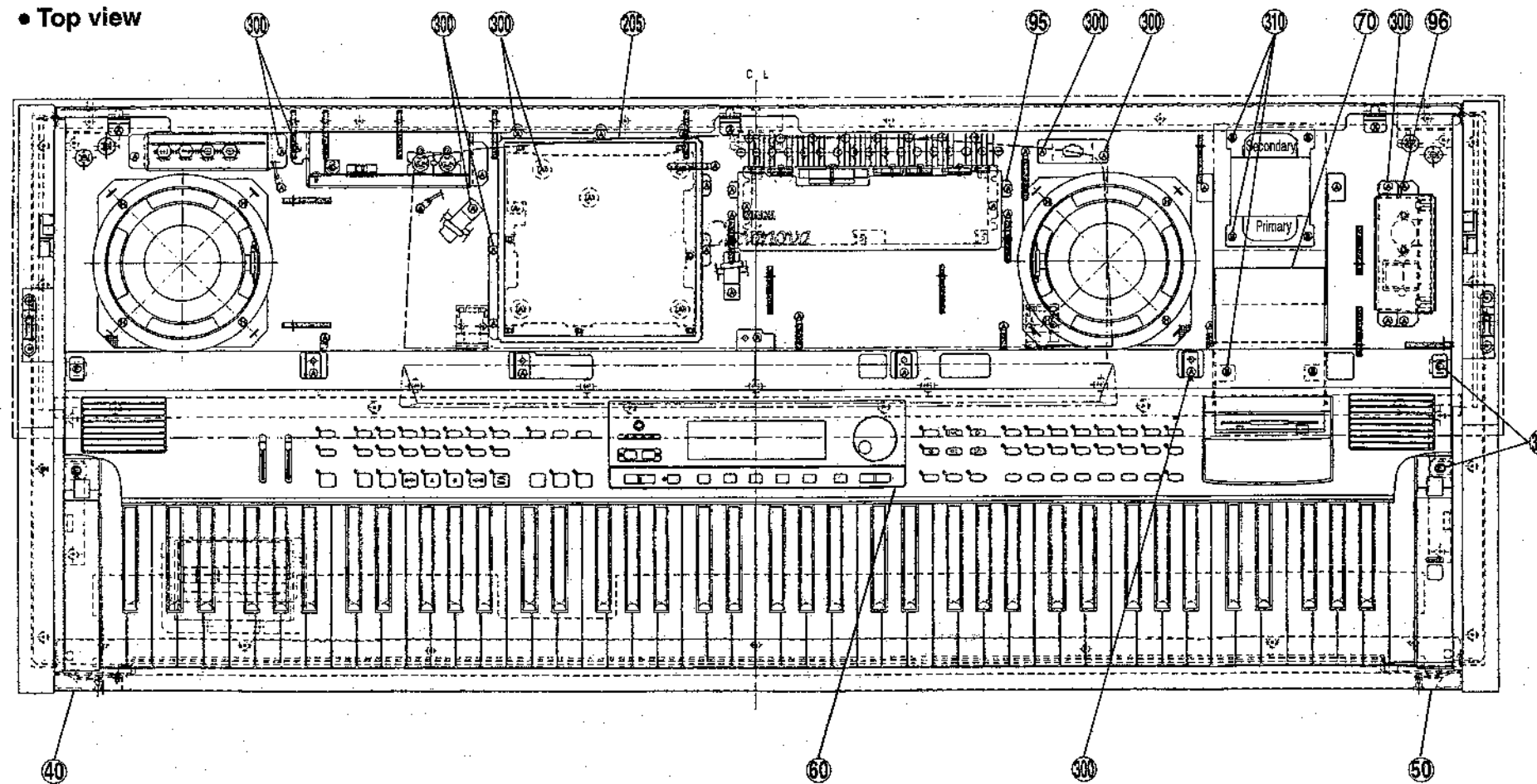
CVP-92

MAIN UNIT 2/2

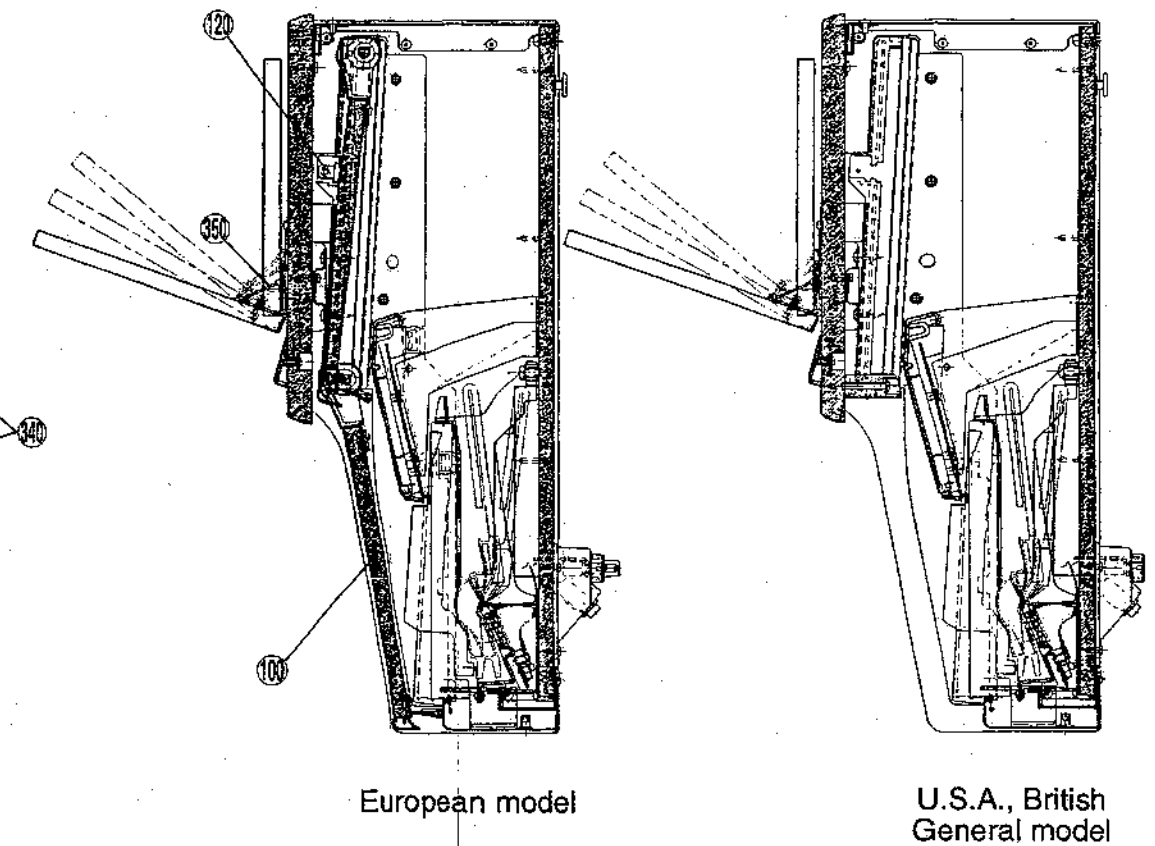
• Rear view



• Top view



• Side view

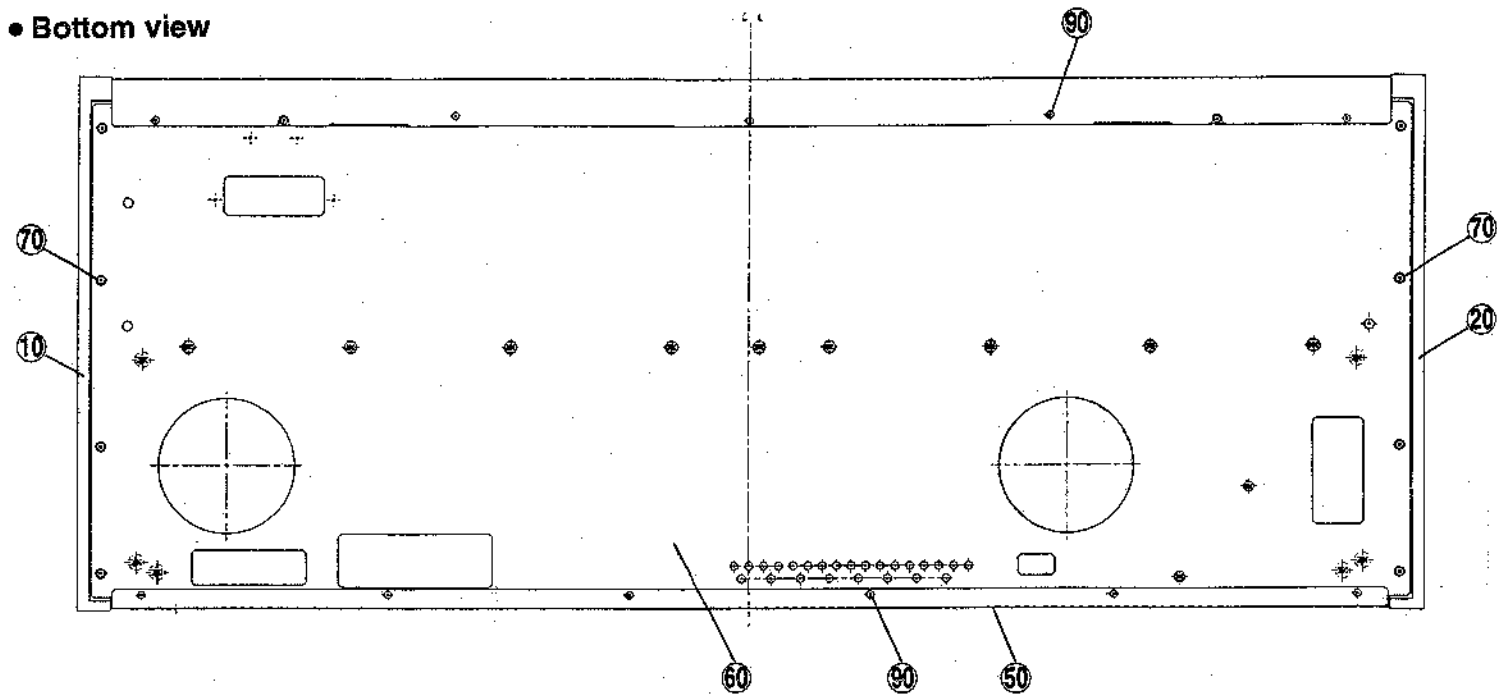


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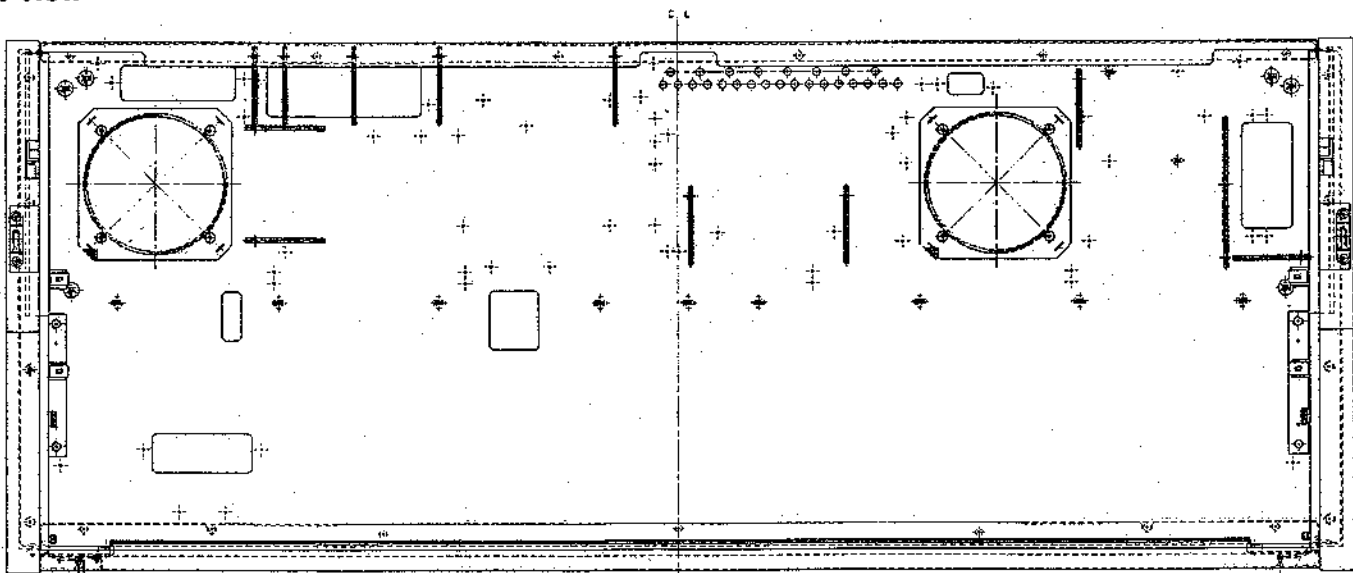
CVP-92

■ UPPER CASE ASSEMBLY

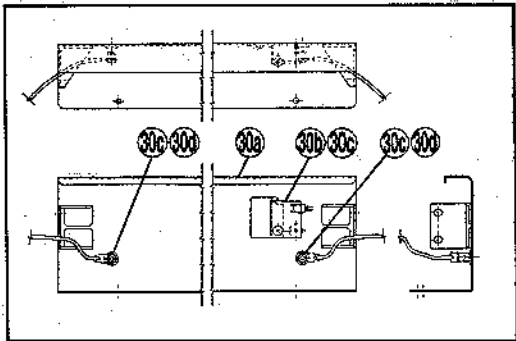
● Bottom view



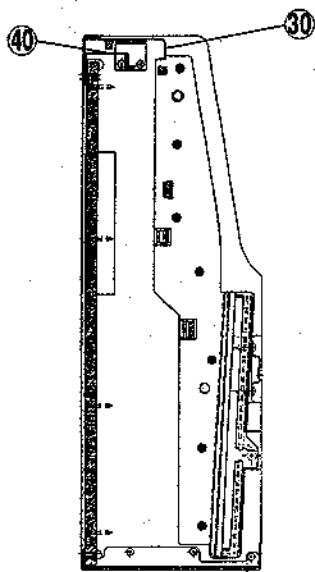
● Top view



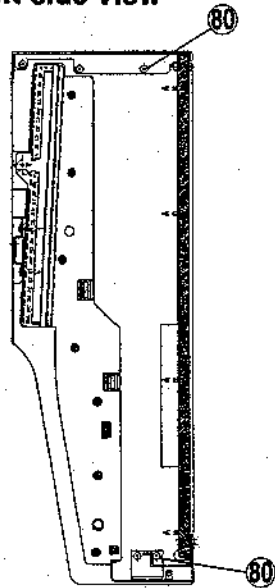
● Front rail assembly



● Right side view



● Left side view



REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	522
10	VV694200	UPPER CASE ASSEMBLY	上 部 本 体 集 成	CVP-92 (VV69700)		
20	VV694300	Side Cover Assembly	腕 木 A s s ' y L			
30		Side Cover Assembly	腕 木 A s s ' y R			
30a	VV614200	Front Rail Assembly	口 金 A s s ' y	(VV61410)		
30a	VV614200	Front Rail	口 金			
30b	VN637600	Circuit Board	P L シ ー ト	(XL151B0)	05	
30c	EP600230	Bind Head Tapping Screw-B	+ バ イ ン ド B タ イ ト		3	01
30d	VH871600	GND Wire	ア ー ス 線		2	04
40	VV606200	Keyboard Holder Assembly	鍵 盤 前 金 具 A s s ' y			
50	VY845300	Back Top Board	背 面 框 印 刷 品			
60	VV696000	Keybed Assembly	棚 板 集 成		8	01
70	EN630190	Truss Head Tapping Screw-1	+ ト ラ ス T P 1 種			
80	EP030190	Bind Head Tapping Screw-1	+ バ イ ン ド T P 1 種		10	01
90	EP030250	Bind Head Tapping Screw-1	+ バ イ ン ド T P 1 種		13	01

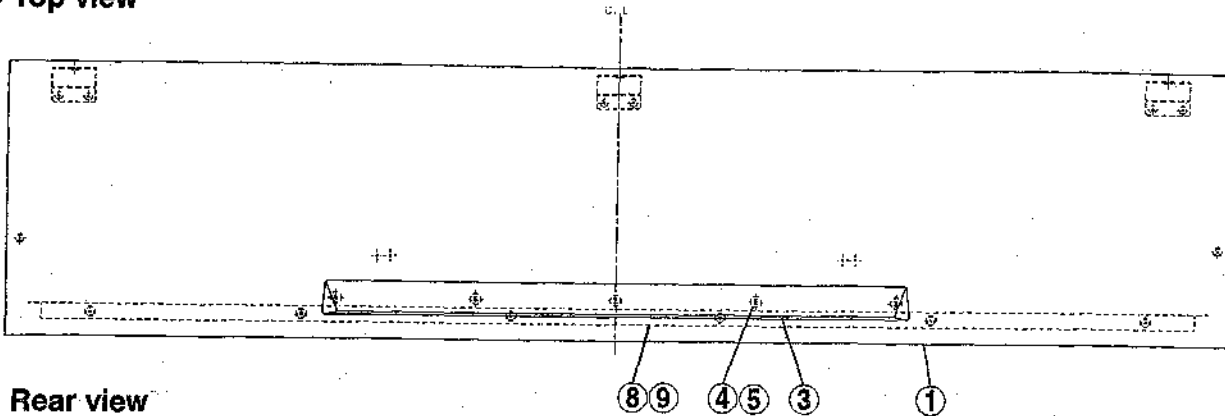
* New Parts (新規部品)

ランク : Japan only

CVP-92

TOP BOARD ASSEMBLY

• Top view



• Rear view



REF. NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ラング
	VV693900	TOP BOARD ASSEMBLY	屋根 A s s ' y	CVP-92		
	VV694000	Top Board Assembly	屋根 A s s ' y (国内)	J,E		
	—	Top Board Assembly	屋根 A s s ' y (海外)	U,B,X		
1	—	Top Board	屋根 固定金具 R	(VV69890)	3	05
2	VQ485800	Holder, Top Board	踏面止レール A s s ' y			
3	VY891000	Stopper Rail, Music Score	+ バインド P タイ		5	01
4	EP600270	Bind Head Tapping Screw-P	平 座 金 みがき丸		5	01
5	VK287600	Flat Washer	+ バインド T P 1 種		6	01
6	EP040170	Bind Head Tapping Screw-1	シヨルダースクリュー		2	03
7	VV444100	Screw	屋根 飾り 面 棒	U,B,X		
8	VV699100	Ornament, Top Board	+ トラス T P 1 種	U,B,X	6	01
9	VQ488900	Truss Head Tapping Screw-1	屋根 飾り クッション	U,B,X	2	
10	VT479700	Cushion				

* New Parts (新規部品)

ラング : Japan only

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■ CONTROL PANEL ASSEMBLY

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	522
5	VV793400	CONTROL PANEL ASSEMBLY	コンパネ A s s ' y	CVP-92 (VV69550)		
10	VV822400	Control Panel	コンパネ部材上がり		2	05
20	VV823200	Push Button	ツマミ 1 A			05
30	VV823400	Push Button	ツマミ 1 G			04
40	VV823500	Push Button	ツマミ 2 E			04
50	VV823700	Push Button	ツマミ 1 H			04
60	VV823900	Push Button	ツマミ J 1			03
70	VV824100	Push Button	ツマミ K 1		2	04
80	VV824300	Push Button	ツマミ 2 I			04
90	VV824600	Push Button	ツマミ F 1			04
100	VV824800	Push Button	ツマミ 3 E			04
110	VV825100	Push Button	ツマミ 1 B			05
120	VV825300	Push Button	ツマミ 1 C			06
130	VV825500	Push Button	ツマミ 2 C			05
140	VV795000	LCD Cover	LCDカバー印刷品			07
150	VT191300	Sheet	押鍵LEDシート		2	04
160	VS179900	Slide Knob	ツマミ(スライド)			03
170	VQ664100	Encoder Knob	エンコーダツマミ			02
180	VT196300	Felt	フェルト			04
190	VV618600	Knob	ツマミ			03
200	VV516300	Circuit Board	PN1Aシート	(XS781B0)		
205	VV516400	Circuit Board	PN1Bシート	(XS781B0)		
210	VV515900	Circuit Board	PN2シート	(XS782B0)		
220	VV516500	Circuit Board	PN3Aシート	(XS781B0)		
225	VV516600	Circuit Board	PN3Bシート	(XS781B0)		
230	VV516700	Circuit Board	MVシート	(XS781B0)		
240	EP600450	Bind Head Tapping Screw-B	3.0X5 MFZN2BL		4	01
250	EP600220	Bind Head Tapping Screw-B	3.0X10 MFZN2Y		51	01
260	VV615100	Holder A, Panel	パネル固定金具 A		4	03
270	VV615700	Holder B, Panel	パネル固定金具 B			05
290	VT280400	Panel Holder Assembly	パネル前固定金具Ass'y		2	03
300	VT699400	LCD Holder Assembly	LCD固定金具Ass'y			05
310	VT300900	LCD	液晶ディスプレイマツシタ			16
320	VB390800	Connector Base Post	EDMMR03D00 FH-12P TE	コネクタベースポスト		01
410	—	Connector Assembly	PN-LF	P N - L F 束線		
430	VK098300	Connector Assembly	KRD-KRD, 8P-100L	K R D - K R D 束線		05
440	VJ989200	Connector Assembly	KRD-KRD, 10P-100L	K R D - K R D 束線		05
450	VK098800	Connector Assembly	KRD-KRD, 12P-100L	K R D - K R D 束線		05
460	—	Connector Assembly	PN-LF	P N - L F 束線 2		
480	VK104700	Connector Assembly	KRD-KRD, 12P-250L	K R D - K R D 束線		
490	—	Connector Assembly	VOL	V O L 束線		
510	VK099800	Connector Assembly	KRD-KRD, 3P-150L	K R D - K R D 束線		04
600	VT336100	LCD Base	L C D 土台			06
630	VT259300	Spacer Assembly	スパーサーAss'y			04
640	VP834600	Adhesive Tape	12X50	粘着テープ	3	02
650	CB069250	Cord Holder	BK-1	インシュロックタイ	5	01
670	—	Tape, D	防振シート D	(VY72690)		
680	—	Tape, E	防振シート E	(VY72700)		
690	—	Tape, C	防振シート C	(VT84930)		
700	EX001310	Bind Head Screw	4.0X10 MFZN2Y	＋バインド小ネジ	2	
710	EX001320	Hexagonal Nut	4.0 MFZN2Y	フランジ付六角ナット	2	

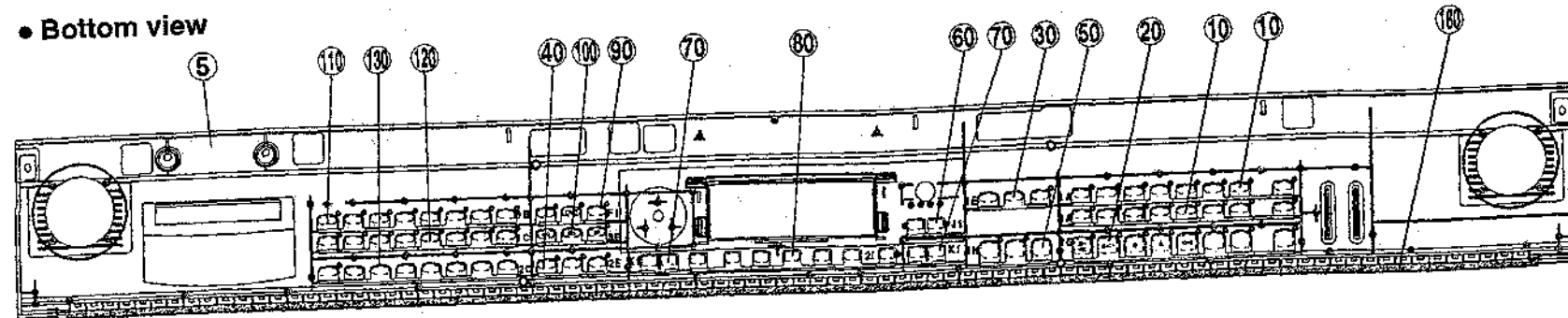
* New Parts (新規部品)

ランク : Japan only

CVP-92

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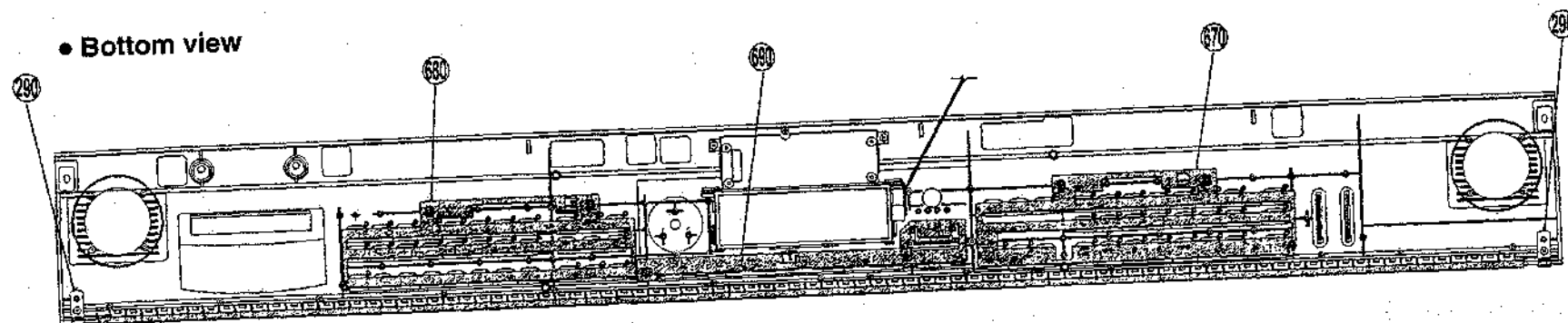
• Bottom view



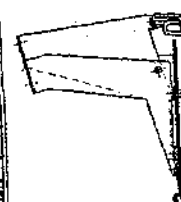
• Side view



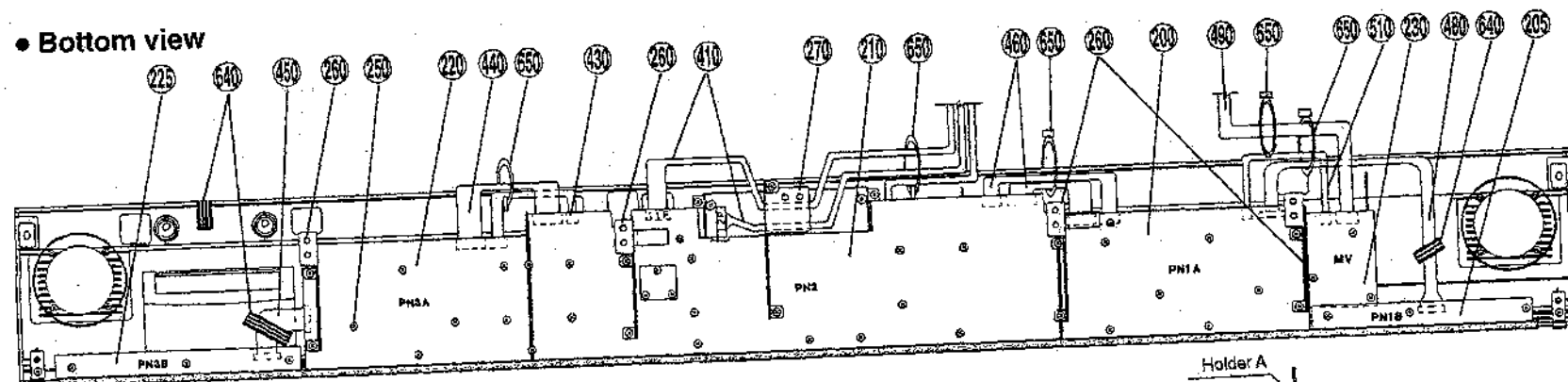
• Bottom view



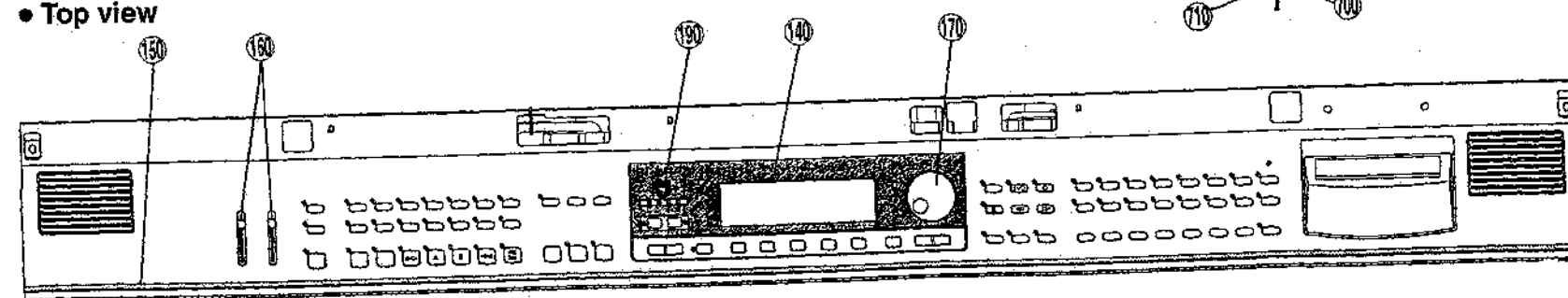
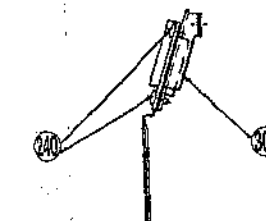
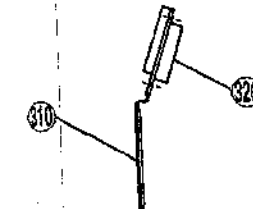
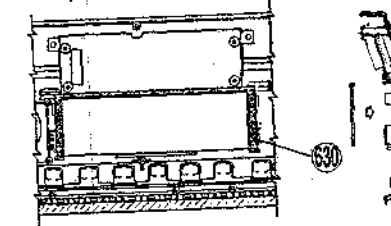
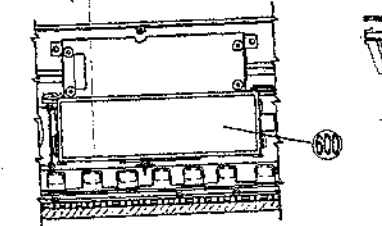
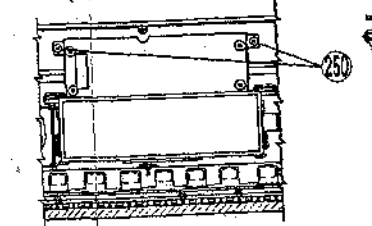
• Side view



• Bottom view



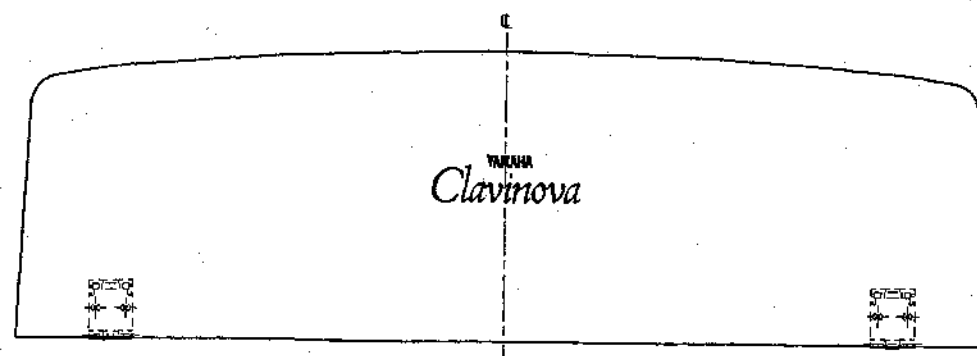
• Top view

• LCD assembly
(Side view)• LCD assembly
(Internal view)• LCD assembly
(Internal view)• LCD assembly
(Internal view)

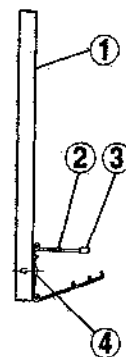
CVP-92

MUSIC REST ASSEMBLY

• Front view



• Side view



REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY
1	—	MUSIC REST ASSEMBLY	鍵盤板 A s s y	CVP-92 (VV69340)	2 07
2	VV603100	Music Rest	鍵盤板印刷品	(VV69780)	2 03
3	VV965900	Hinge	鍵盤板ネジ		4
4	EX001070	Hinge Cap	鍵盤板ネジキャップ		
		Bind Head Tapping Screw-1	3.0X10 MFZN2BL	(2040420)	

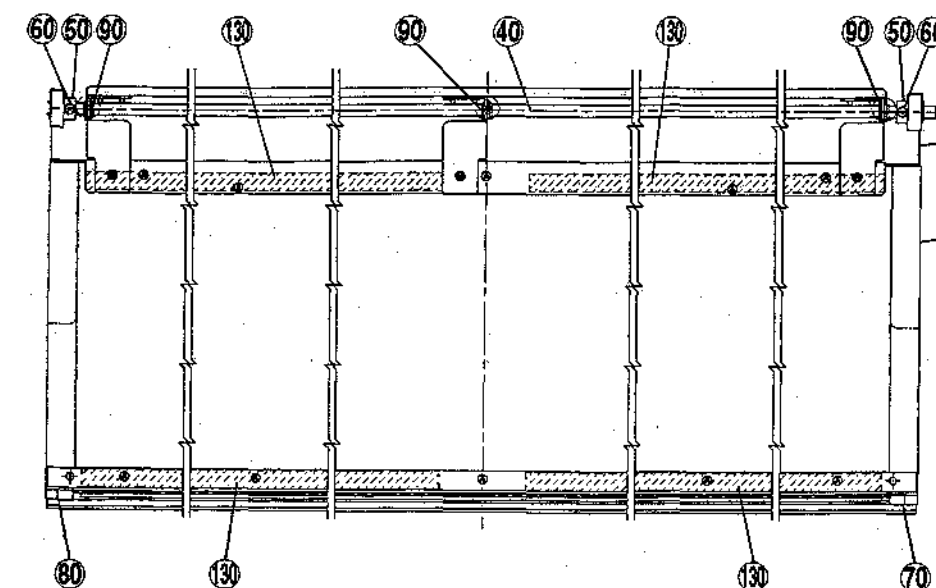
* New Parts (新規部品)

ランク : Japan only

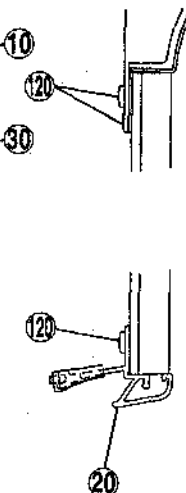
CVP-92

KEY COVER ASSEMBLY

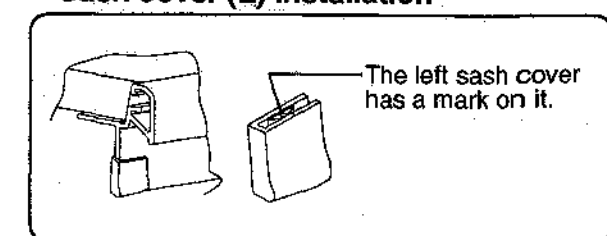
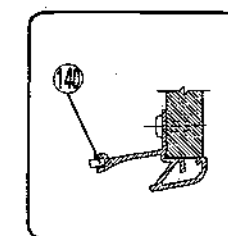
• Bottom view



• Side view



• Sash cover (L) installation



REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY
	VV936800	KEY COVER ASSEMBLY	スライド蓋 A s s y	CVP-92	12
10	VV696500	Key Cover Assembly	スライド蓋 A s s y	J,E	
20	VV926600	Sash Assembly	サッシ R A s s y	J,E	
30	—	Sash	サッシ F	J,E	
		Slide Cover	スライド蓋	J,E (VV93660)	
40	VT190800	Rod	連動棒	J,E	10
50	VT190400	Gear	ビニオンギヤ	J,E	2 03
60	EG330060	Bind Head Screw	3.0X10 MFZN2Y	J,E	2 01
70	VU274900	Sash Cover	サッシカバー L	J,E	03
80	VU275000	Sash Cover	サッシカバー R	J,E	03
90	VS368500	Bushing	ブッシュ	J,E	3 03
120	EP030320	Bind Head Tapping Screw-1	3.5X10 MFZN2BL	J,E	21 01
130	—	Adhesive Tape	#500 600X12	J,E	4
140	—	Cushion	421X2.5X5	J,E	3

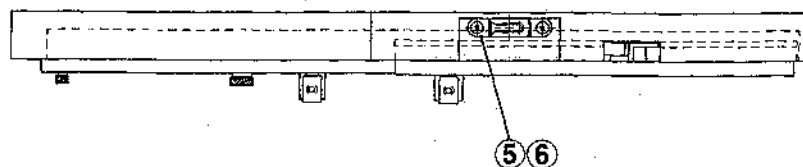
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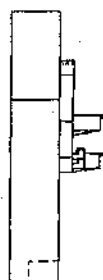
CVP-92

■ SIDE COVER ASSEMBLY (L, R)

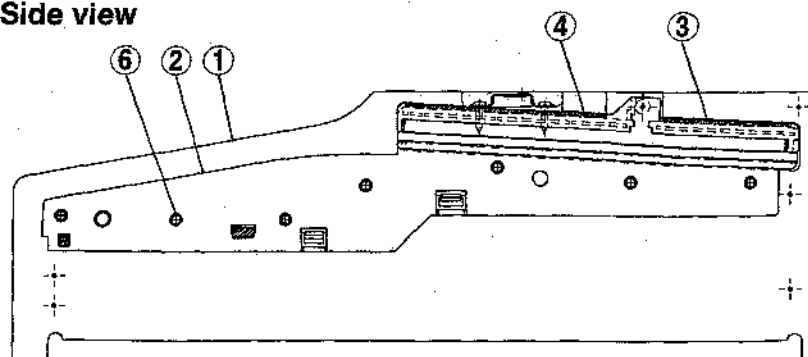
● Top view



● Front view



● Side view



● SIDE COVER ASSEMBLY(L)

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	
1	VV694200	SIDE COVER ASSEMBLY	LEFT	腕木 A s s ' y L	CVP-92		
	—	Side Cover	LEFT	腕 木 (L)	(VV71730)		
2	VV720000	Inner Cap Assembly	LEFT	山板 A s s ' y L			
3	—	Cushion	0.25X6X85	防 振 材 A	(VT81370)		
4	—	Cushion	0.25X6X135	防 振 材 B	(VT81380)		
5	—	Holder, Top Board	1.20	屋 根 固 定 金 具	(VV44420)		
6	EP030190	Bind Head Tapping Screw-1	3.5X16 MFZN2Y	+ バ イ ン ド T P 1 種		9	01

* New Parts (新規部品)

ランク : Japan only

● SIDE COVER ASSEMBLY(R)

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	
1	VV694300	SIDE COVER ASSEMBLY	RIGHT	腕木 A s s ' y R	CVP-92		
	—	Side Cover	RIGHT	腕 木 (R)	(VV71760)		
2	VV720200	Inner Cap Assembly	RIGHT	山板 A s s ' y R			
3	—	Cushion	0.25X6X85	防 振 材 A	(VT81370)		
4	—	Cushion	0.25X6X135	防 振 材 B	(VT81380)		
5	—	Holder, Top Board	1.20	屋 根 固 定 金 具	(VV44420)		
6	EP030190	Bind Head Tapping Screw-1	3.5X16 MFZN2Y	+ バ イ ン ド T P 1 種		9	01

* New Parts (新規部品)

ランク : Japan only

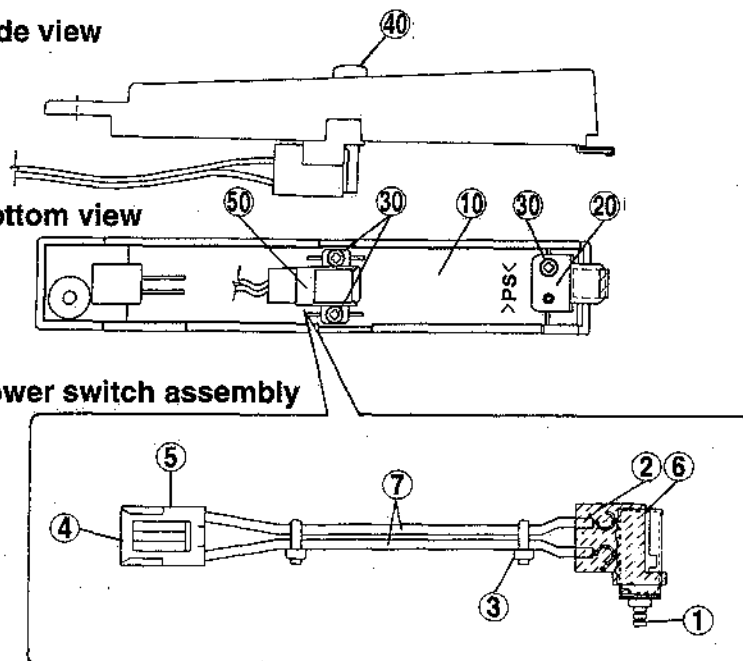
CVP-92

■ END BLOCK ASSEMBLY (L, R) & POWER SWITCH ASSEMBLY

● Side view

● Bottom view

● Power switch assembly



● END BLOCK ASSEMBLY(L)

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	コ ン
10	VV599700	END BLOCK ASSEMBLY	LEFT	拍子木 A s s ' y L	CVP-92 (VV60330)	06
20	VL732000	End Block	LRFT	拍子木 塗 装 品 L		04
30	EP600190	Holder Assembly		拍子木固定金具 F Ass'y		01
		Bind Head Tapping Screw-B	3.0X8 MFZN2BL	+ バインド B タイ		

* New Parts (新規部品)

ランク : Japan only

● END BLOCK ASSEMBLY(R)

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	コ ン
10	VV599600	END BLOCK ASSEMBLY	RIGHT	拍子木 A s s ' y R	CVP-92 (VV60320)	06
20	VL732000	End Block	RIGHT	拍子木 塗 装 品 R		04
30	EP600190	Holder Assembly		拍子木固定金具 F Ass'y		01
40	VF663400	Bind Head Tapping Screw-B	3.0X8 MFZN2BL	+ バインド B タイ	3	02
		Knob	BL	ブッシュ ツマミ		
50		Power Switch Assembly	P.SW	P S W 束 線	(VV65000)	

* New Parts (新規部品)

ランク : Japan only

● POWER SWITCH ASSEMBLY

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	コ ン
1	VC843500	POWER SWITCH ASSEMBLY	P.SW	P S W 束 線	CVP-92 (VV65000)	03
2	CB049980	Push Switch	SDDL1216A J.U.C.S	ブッシュ S W	POWER switch	01
3	CB069250	Switch Cover	BL	パワースイッチカバー		01
3		Cord Holder	BK-1	インシュロックタイ		01
		Cord Binder	AZ-100	結 束 バ ン ド	(VV55840)	02
4	LB101710	Connector Pin	SVH-21T-P1.1	圧 着 端 子		01
5	LB015030	Connector Housing	VH- 3P	ハ ウ ジ ン グ		01
6	VH664300	Cushion	UN-2	防振材 UN-2 t=3		03
7		Cable	AWG20 1672 AWM	ビニール線 . ハイ	(VA16400)	
7		Cable	AWG20 1672 AWM	ビニール線 . シロ	(VA16410)	

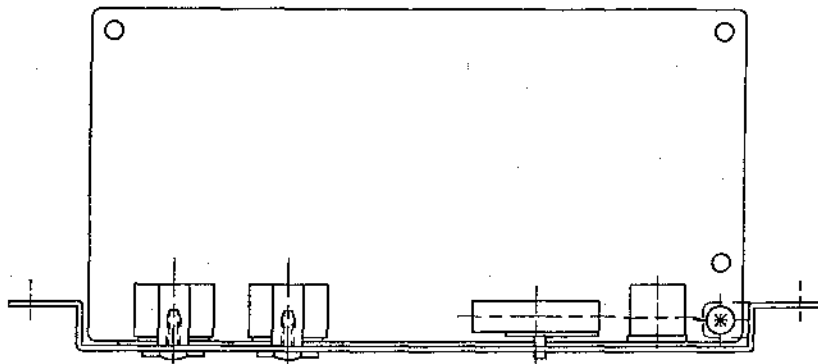
* New Parts (新規部品)

ランク : Japan only

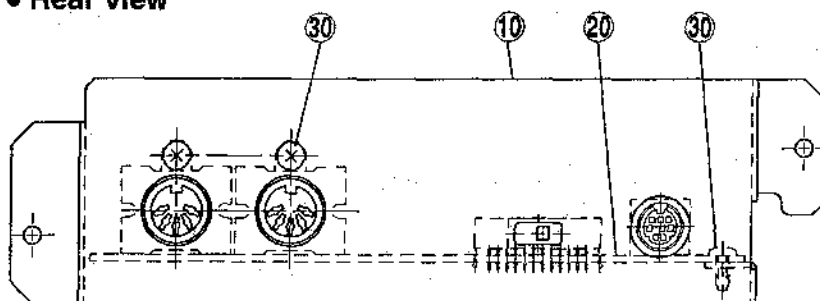
CVP-92

■ D-JACK ASSEMBLY

● Top view



● Rear view



REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ランク
10	VY662000	D-JACK ASSEMBLY	D-JACK Ass'y	CVP-92 (VV98110)		06
20	VY715100	MIDI Plate	M I D I 金具印刷品			
30	EP600190	Circuit Board	J A C K 1 シート	(XR598C0)	3	01
		Bind Head Tapping Screw-B	3.0X8 MFZN2BL	+ バインド B タイト		

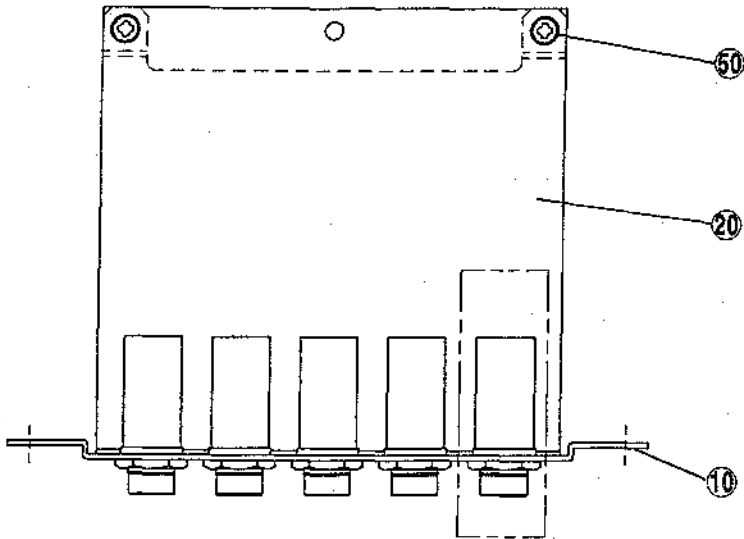
* New Parts (新規部品)

ランク : Japan only

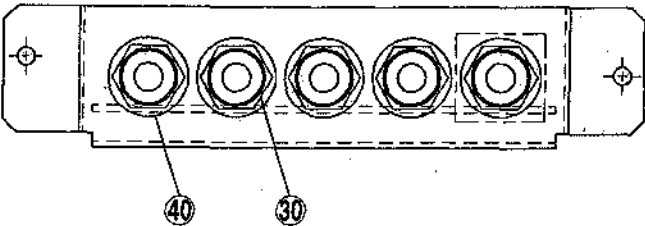
VP-92

A-JACK ASSEMBLY

Top view



Rear view



REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ランク
10	VV604700	A-JACK ASSEMBLY	A-JACK Ass'y	CVP-92 (VY63610)		05
20	VY637800	A-JACK Plate	A-JACK 金具			
30	VY637800	Circuit Board	E Q シ ー ト	(XT121C0)		
30	VB508600	Hexagonal Nut	特 殊 六 角 ナ ッ ト		4	01
40	VJ869400	Washer	ワ ッ シ ャ ー		4	02
50	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL	＋バインド B タイト	2	01

* New Parts (新規部品)

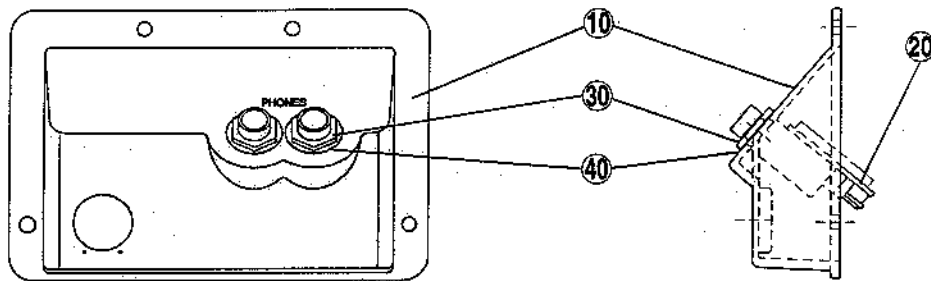
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CVP-92

HEADPHONES JACK UNIT

● Bottom view

● Side view



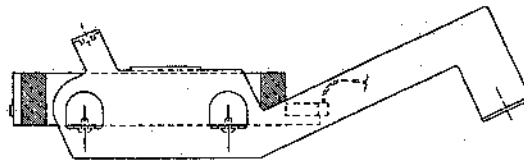
REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	ランク
	—	HEADPHONES JACK UNIT		H P J ユ ニ ッ ト	CVP-92		
10	VT519000	Headphones Jack Unit		H P J ユ ニ ッ ト	U,B,E,X (VT47940)		07
20	VT478400	Headphones Cover		H P J カ バ ー 印 刷 品			10
30	VB508600	Circuit Board	HP	H P シ ー ト	(XQ795A0)	2	01
		Hexagonal Nut	12.0 14X2 MFZN2BL	特 殊 六 角 ナ ッ ト			
40	VJ869400	Washer	BL	ワ ッ シ ャ ー		2	02

* New Parts (新規部品)

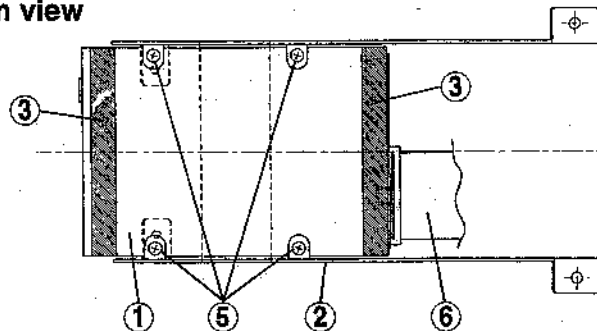
ランク : Japan only

FDD ASSEMBLY

● Side view



● Bottom view



REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	ランク
	—	FDD ASSEMBLY		F D D A s s ' y	CVP-92		
1	VV982200	Floppy Disk Drive	DF354H034A	3. 5" FDD ALPS	(VV69570)		16
2	VV617200	Holder		デ ィ ス ク 固 定 金 具			07
3	—	Tape	590F 15X30M	粘 着 テ ー プ	(VT74450)		
3	—	Tape	15X175	粘 着 テ ー プ	(VZ01620)	2	
5	EG330150	Bind Head Screw	3.0X5 MFZN2Y	+ バ イ ン ド 小 ネ ジ		4	01
6	VV853600	Connector Assembly	FDD-SIG	F D D - S I G 束 線			09

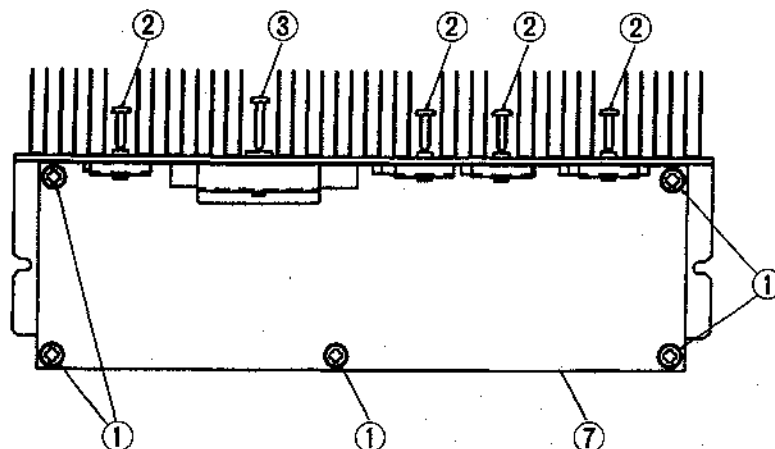
* New Parts (新規部品)

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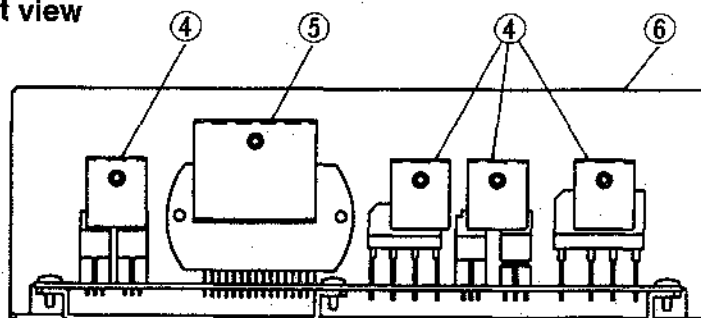
CVP-92

MA60 ASSEMBLY

Top view



Front view



REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ランク
	VT144300	MA60 ASSEMBLY	MA 6 0 A s s ' y	CVP-92		
	VT144400	MA60 Assembly	MA 6 0 A s s ' y	U,C		
1	EP640410	Bind Head Tapping Screw-B	MA 6 0 A s s ' y	B,E,X	5	01
2	EP600220	Bind Head Tapping Screw-B	+ バインド B タイ	U,B,E,X	4	01
3	EP600390	Bind Head Tapping Screw-B	+ バインド B タイ	U,B,E,X		01
4	VT461100	Transistor Holder A	トランジスターホルダーA	U,B,E,X	4	03
5	VT461200	Transistor Holder B	トランジスターホルダーB	U,B,E,X		03
6	VT444300	Heat Sink	放 熱 器	U,B,E,X		11
7	—	Circuit Board	MA60	J,U (VT14390,XQ393E0)		
7	—	Circuit Board	MA60	M A 6 0 シ ー ト B,E,X (VT14400,XQ393E0)		

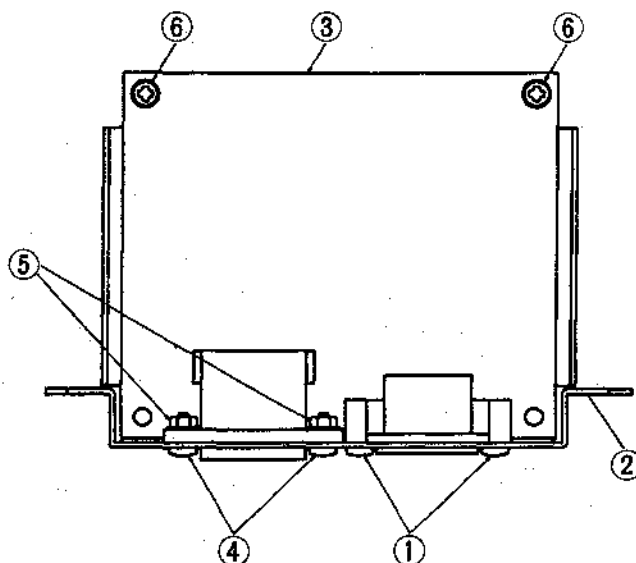
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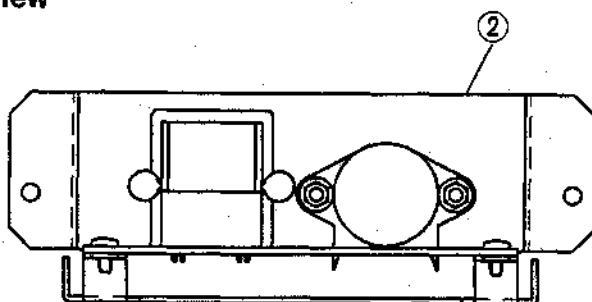
CVP-92

FU60 ASSEMBLY

Top view



Rear view



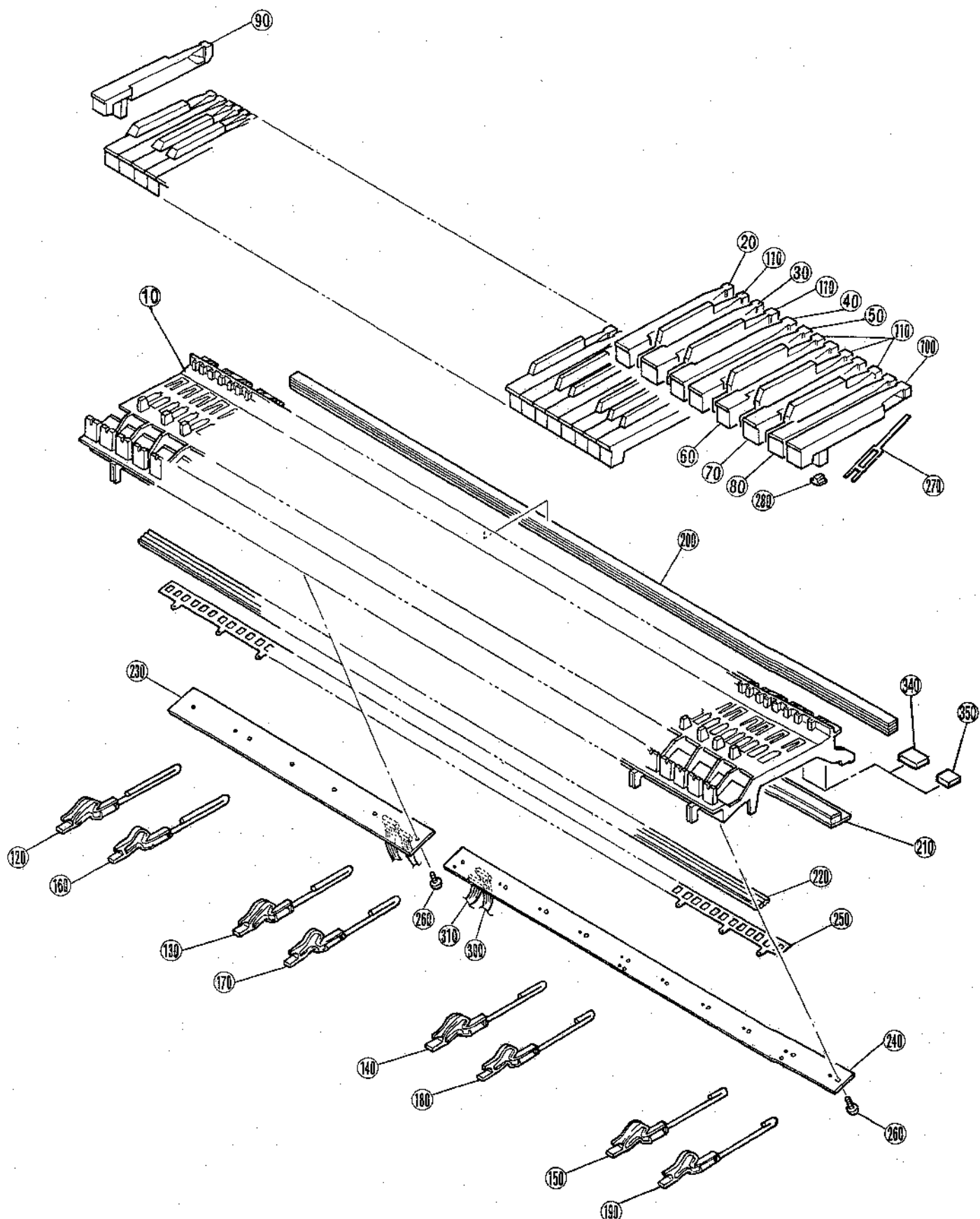
REF. NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ランク
	VT152000	FU60 ASSEMBLY	F U 6 0 A s s ' y	CVP-92		
	VT152100	FU60 Assembly	F U 6 0 A s s ' y	J		10
	VT152200	FU60 Assembly	F U 6 0 A s s ' y	U		10
	VT153300	FU60 Assembly	F U 6 0 A s s ' y	B,E		10
			F U 6 0 A s s ' y	X		12
1	EP600190	Bind Head Tapping Screw-B	+ バインド B タイ		2	01
2	VT172900	Plate, AC Inlet	A C インレット金具	J,U,C,B,E		07
2	VT488700	Panel, AC Inlet	A C インレット金具印刷品	X		08
3	—	Circuit Board	F U 6 0 シ ー ト	J		
3	—	Circuit Board	F U 6 0 シ ー ト	U		
3	—	Circuit Board	F U 6 0 シ ー ト	B,E		
3	—	Circuit Board	F U 6 0 シ ー ト	X		
4	E6330380	Bind Head Screw	+ バインド小ネジ		2	01
5	VA211900	Hexagonal Nut	フランジ付六角ナット		2	01
6	VE683000	Bind Head Tapping Screw-B	+ バインド B タイ		2	01

* New Parts (新規部品)

ランク : Japan only

CVP-92

■ KEYBOARD ASSEMBLY



CVP-92

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	ランク
10	VU431800	KEYBOARD ASSEMBLY	A88 K6	GH鍵盤 Ass'y 88	CVP92		73
20	---	MK Frame		フレーム 88 アウトサート	(VU42210)		
30	VU101000	White Key	C	白 鍵 C		7	05
40	VU101100	White Key	D	白 鍵 D		7	05
50	VU101200	White Key	E	白 鍵 E		7	05
60	VU101300	White Key	F	白 鍵 F		7	05
70	VU101400	White Key	G	白 鍵 G		7	05
80	VU101500	White Key	A	白 鍵 A		7	05
90	VU101600	White Key	B	白 鍵 B		8	05
100	VU101700	White Key	A'	白 鍵 A'		8	05
110	VU101800	White Key	C	白 鍵 C		36	05
120	VU102100	Black Key	BL	黒 鍵		13	06
130	VU102200	Hammer, White Key		ハンマ ー 白 鍵 1		13	06
140	VU102300	Hammer, White Key		ハンマ ー 白 鍵 2		13	06
150	VU102400	Hammer, White Key		ハンマ ー 白 鍵 3		13	06
160	VU102500	Hammer, White Key		ハンマ ー 白 鍵 4		9	06
170	VU102600	Hammer, Black Key		ハンマ ー 黒 鍵 1		9	06
180	VU102700	Hammer, Black Key		ハンマ ー 黒 鍵 2		9	06
190	VU102800	Hammer, Black Key		ハンマ ー 黒 鍵 3		9	06
200	VU102900	Hammer, Black Key		ハンマ ー 黒 鍵 4		9	06
210	VU342100	Stopper		ストッパ ー U 88			09
220	VU342200	Stopper		ストッパ ー L 88			09
230	VY693500	Rubber Contact	AEX88	GH 可動導電ゴム			11
240	VU342300	Circuit Board	AEXL88 L	AEXL88 シート L	(XR775C0)		12
250	VU342400	Circuit Board	AEXL88 H	AEXL88 シート H	(XR776C0)		13
260	VU266500	Insulation Spacer	AEX88	絶縁スベ ーサー			06
270	EP600270	Bind Head Tapping Screw-P	3.0X10 MFZN2Y	ナット		17	01
280	VU237300	Spring	GH	スプリング		88	03
290	VU237500	Rubber Grease	PG-661	駆動ラバ ー		88	03
300	VU341800	Connector Assembly	9P	中継束線ブロック	AEXL88 L-CN1-DM-CN330		06
310	VU341900	Connector Assembly	12P	中継束線ノット	AEXL88 L-CN2-AEXL88 H-CN1		07
340	VY467900	Stopper Felt A	35.5 X 20	ストッパ ー サポート A		7	
350	VY468100	Stopper Felt B	24 X 20	ストッパ ー サポート B		12	

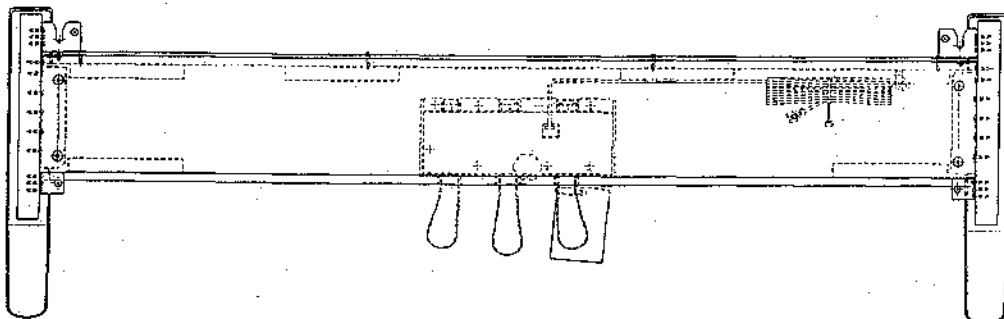
* New Parts (新規部品)

ランク : Japan only

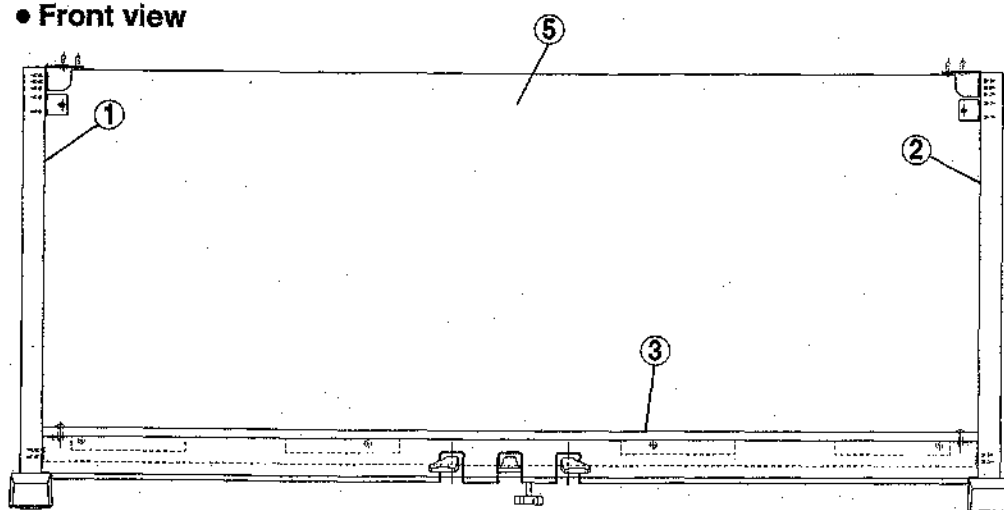
CVP-92

STAND ASSEMBLY

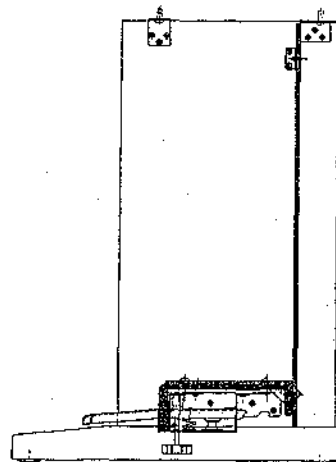
• Top view



• Front view



• Side view



REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY	ランク
	—	STAND ASSEMBLY		ス タ ン ド A s s ' y	CVP-92 (VV67770)		
1	—	Stand Base Assembly	LEFT	側板裏土台 A s s ' y L	(VV68820)		
2	—	Stand Base Assembly	RIGHT	側板裏土台 A s s ' y R	(VV68830)		
3	—	Pedal Box Assembly		ペダルBOX A s s ' y	(VV68840)		
5	VV688100	Back Board Set		裏 板 セ ッ ト			

* New Parts (新規部品)

ランク : Japan only

CVP-92

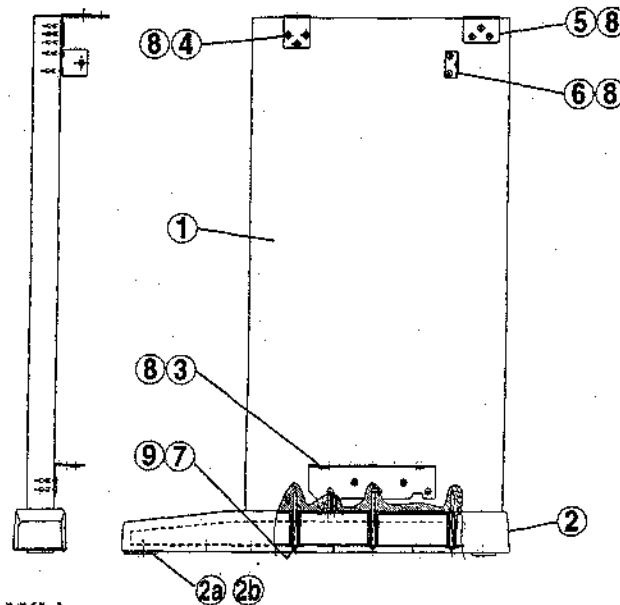
■ SIDE BOARD ASSEMBLY (L, R)

● Top view



● Front view

● Side view



● SIDE BOARD ASSEMBLY(L)

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ラック
1	VV873600	SIDE BOARD ASSEMBLY	LEFT	側板妻土台 Ass'y L	CVP-92 (VV68820)	
2	VZ177500	Stand Base Assembly	LEFT	側板 (L)		
2a	VP316200	Foot	YFP70	妻土台 Ass'y		01
2b	VA914400	Bind Head Tapping Screw-B	4.0X12 MFZN2Y	スベリ座		01
3	VN899100	Holder, Pedal Box	LEFT	ペダルBOX取付金具 L		05
4	VN973100	Angle Bracket, ST		ST, アングル		04
5	VS295500	Holder, L	LEFT	ST, 受け金具 L		05
6	VQ958300	Holder, Back Board		裏板取付金具		05
7	VV444000	Pan Head Screw-1	4.0X65 MFZN2Y	ナベTP 1種		3
8	EP030580	Bind Head Tapping Screw-1	3.5X20 MFZN2BL	ナベTP 1種		13
9	03765410	Flat Washer	4.0X10X0.8 MFZN2Y	平座金みがき丸		3

* New Parts (新規部品)

ラック : Japan only

● SIDE BOARD ASSEMBLY(R)

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ラック
1	VV873800	SIDE BOARD ASSEMBLY	RIGHT	側板妻土台 Ass'y R	CVP-92 (VV68830)	
2	VZ177500	Stand Base Assembly	RIGHT	側板 (R)		
2a	VP316200	Foot		妻土台 Ass'y		01
2b	VA914400	Bind Head Tapping Screw-B	4.0X12 MFZN2Y	スベリ座		01
3	VN899200	Holder, Pedal Box	RIGHT	ペダルBOX取付金具 R		05
4	VN973100	Angle Bracket, ST		ST, アングル		04
5	VS295600	Holder, R	RIGHT	ST, 受け金具 R		05
6	VQ958300	Holder, Back Board		裏板取付金具		05
7	VV444000	Pan Head Tapping Screw	4.0X65 MFZN2Y	ナベTP 1種		3
8	EP030580	Bind Head Tapping Screw-1	3.5X20 MFZN2BL	ナベTP 1種		13
9	03765410	Flat Washer	4.0X10X0.8 MFZN2Y	平座金みがき丸		3

* New Parts (新規部品)

ラック : Japan only

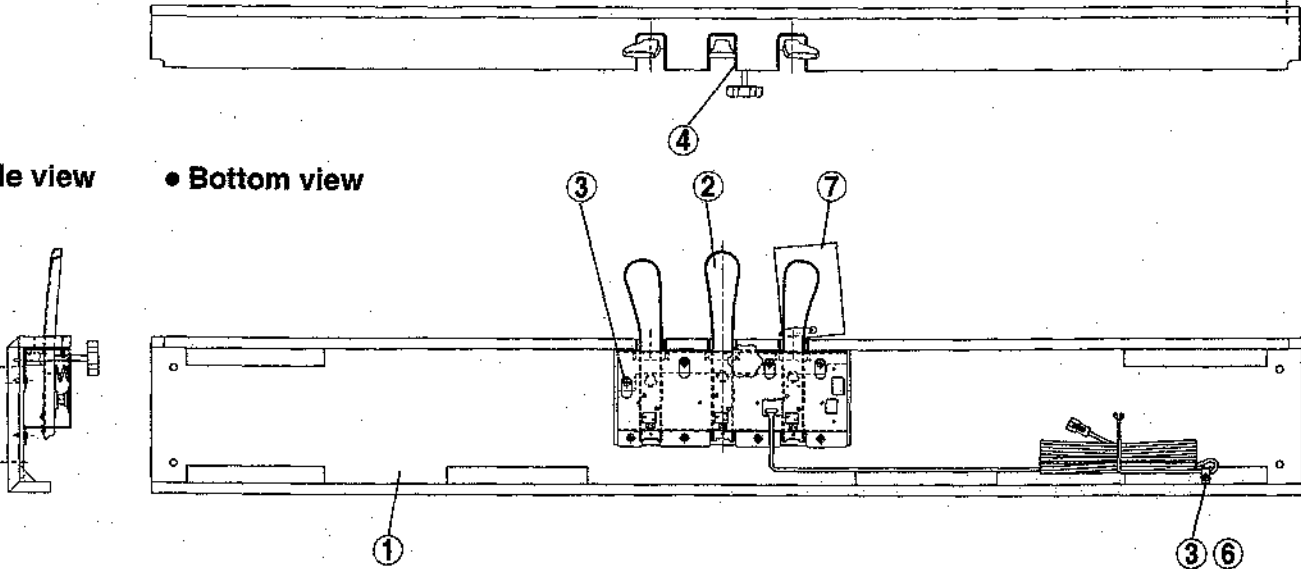
CVP-92

■ PEDAL BOX ASSEMBLY

● Front view

● Side view

● Bottom view



REF. NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	UNIT
	—	PEDAL BOX ASSEMBLY	ペダルBOX Ass'y	CVP-92 (VV68840)		18
1	VV877100	Pedal Box	ペダルボックス木部集成			01
2	VU362400	Pedal Assembly	ペダル Ass'y (B)			03
3	EP040230	Bind Head Tapping Screw-1	+ バインド T P 1 種		9	01
4	VU464300	Felt	フ ェ ル ト		3	03
6	CB900030	Cord Binder	コ ー ド 押 え			01
7	—	Caution Label	ペ ダ ル 注 意 書	(VD98610)		03

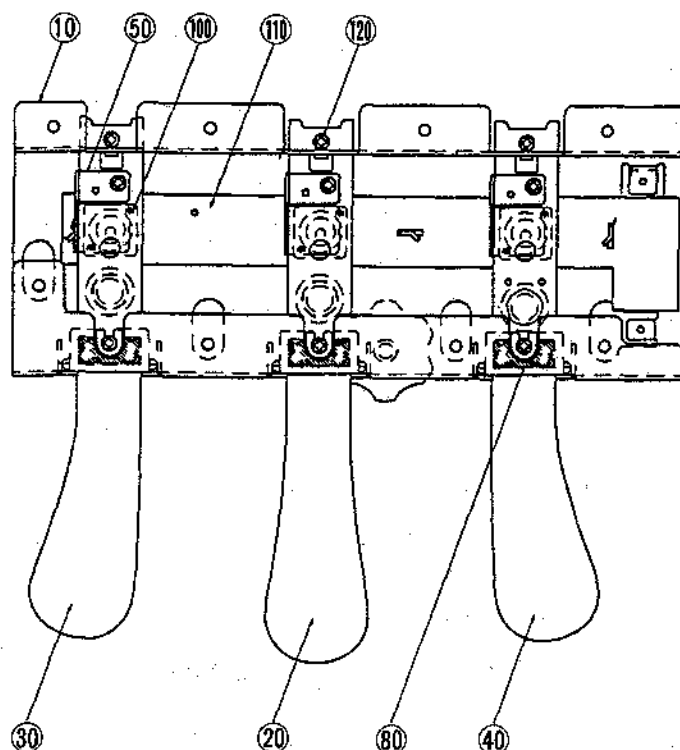
* New Parts. (新規部品)

ランク : Japan only

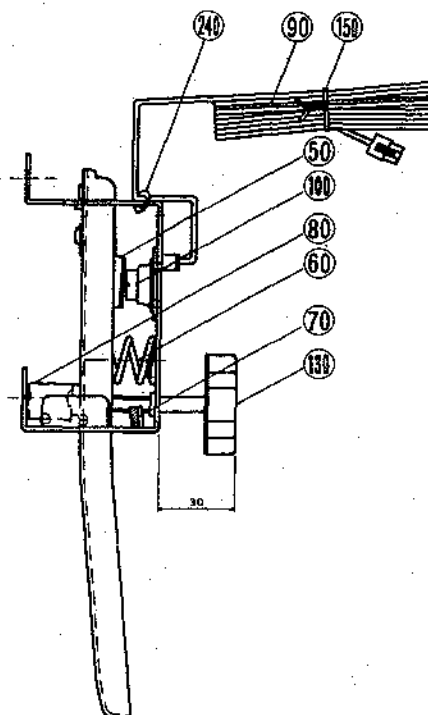
CVP-92

PEDAL ASSEMBLY

Top view



Side view



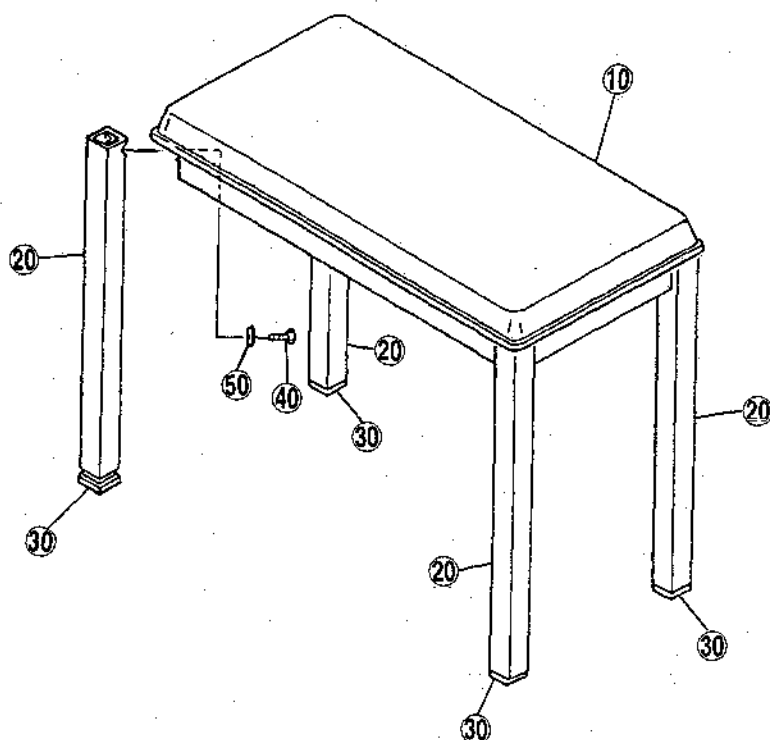
REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	ラング
	VU362400	PEDAL ASSEMBLY	ベダル A s s y (B)	CVP-92		18
10	VU339700	Pedal Frame	ベダル フ レーム			09
20	VU362000	Pedal Piece	ベダル 本 体 セ ッ ト (C)			08
30	VU362100	Pedal Piece	ベダル 本 体 セ ッ ト (L)			08
40	VU362200	Pedal Piece	ベダル 本 体 セ ッ ト (R)			08
50	VV433500	Actuator	ア ク チ ュ エー タ		3	03
60	VP348100	Pedal Spring	ベ ダ ル パ ネ		3	03
70	VU346500	Felt	フ ェ ル ト P A		6	03
80	VU339800	Shutter	シ ャ ッ ター		3	03
90	VU374600	Connector Assembly	P K ケーブル			09
100	VU456000	Rubber Contact	接 点 ゴ ム ドー ム		3	03
110	VU466600	Circuit Board	ベ ダ ル シー ト	(XR780B0)		08
120	EP600190	Bind Head Tapping Screw-B	+ バ イ ン ド B タ イ ト		9	01
130	VU379700	Adjuster	ア ジ ャ ス ター			02
140	VE968500	Grease	グ リ ャ ス			46
150	CB033610	Cord Binder	束 縛 止 め			01
240	CB069250	Cord Holder	イ ン シ ュ ロ ッ ク タ イ			01

* New Parts (新規部品)

ラング : Japan only

CVP-92

BENCH

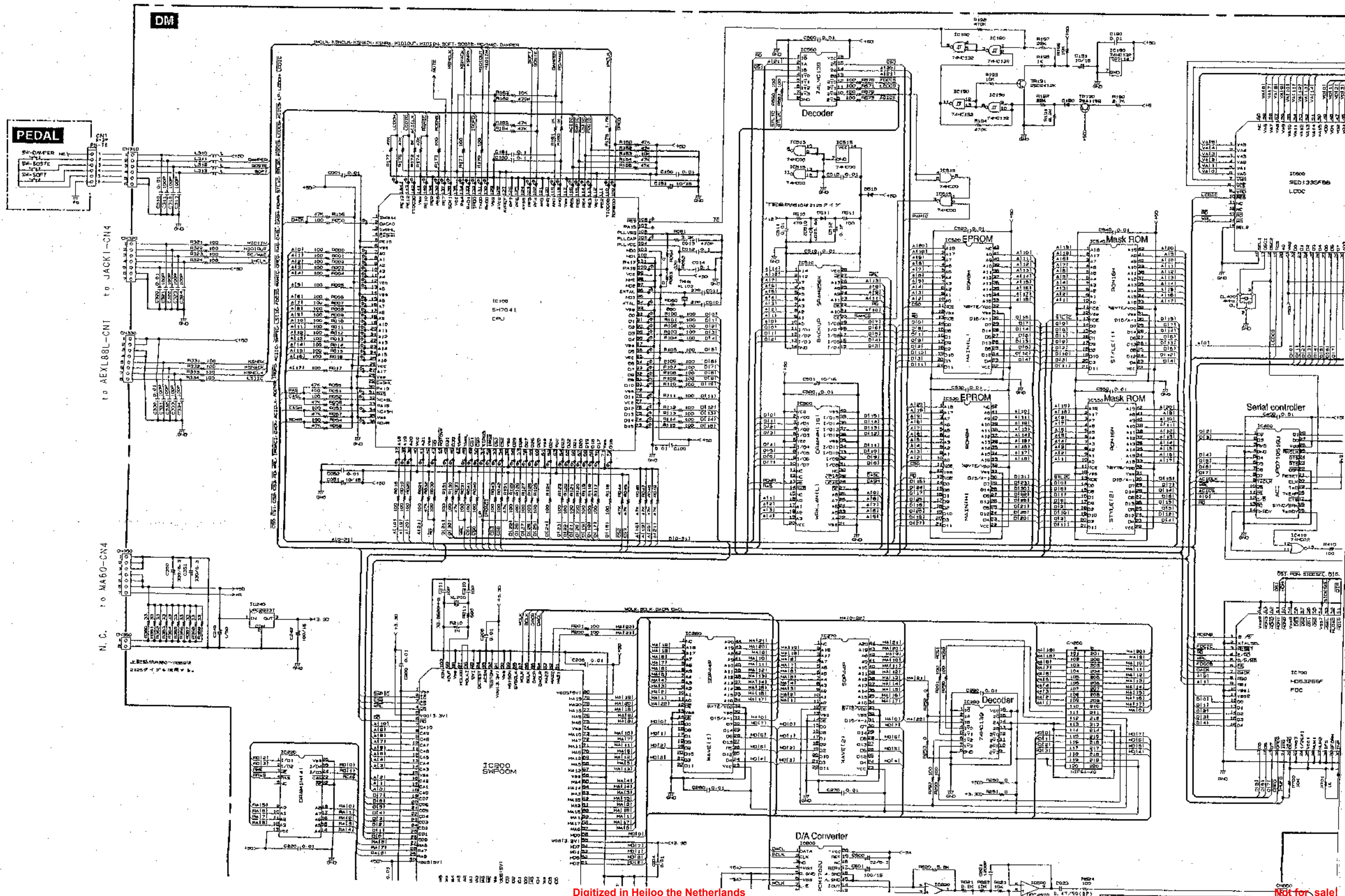


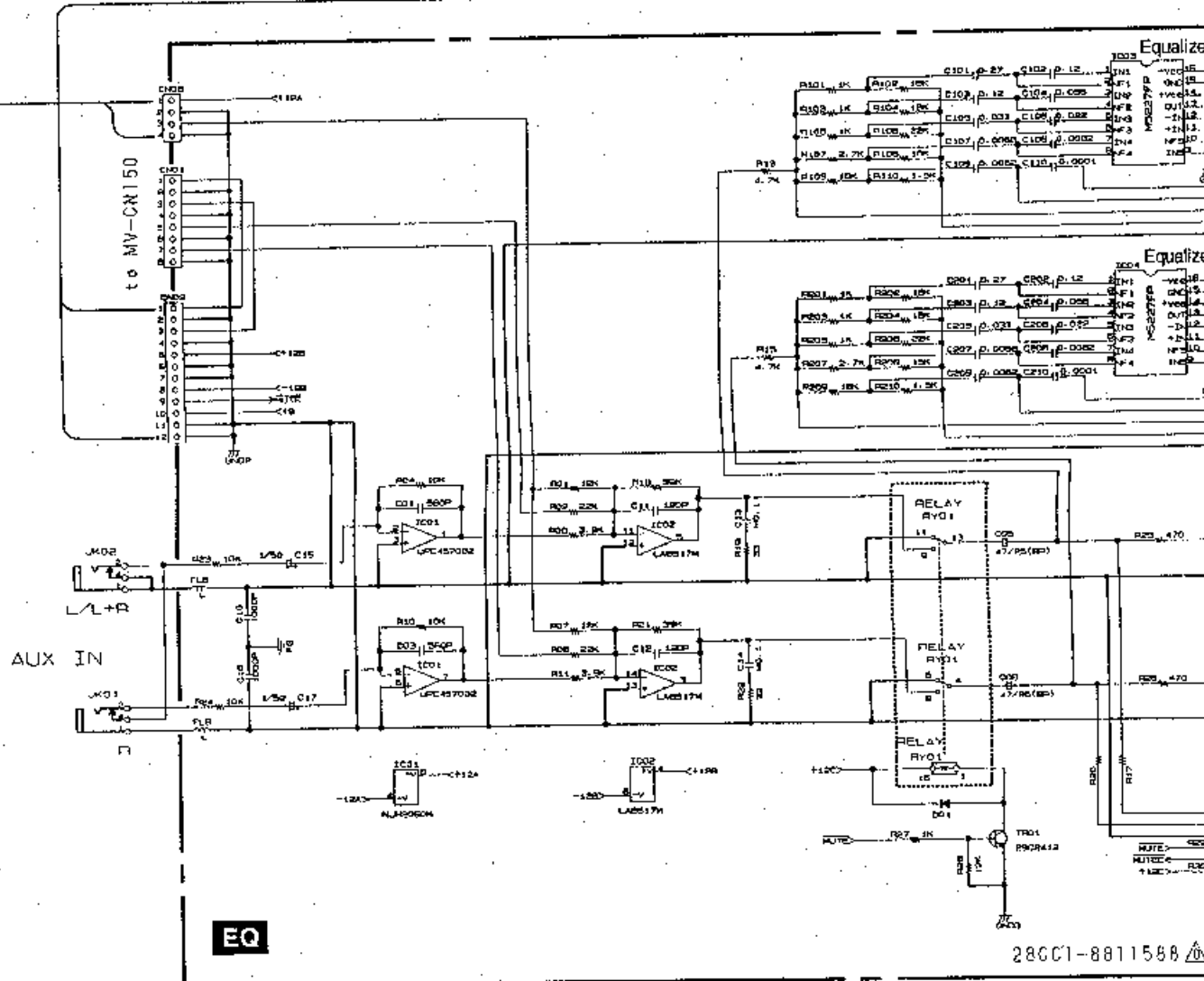
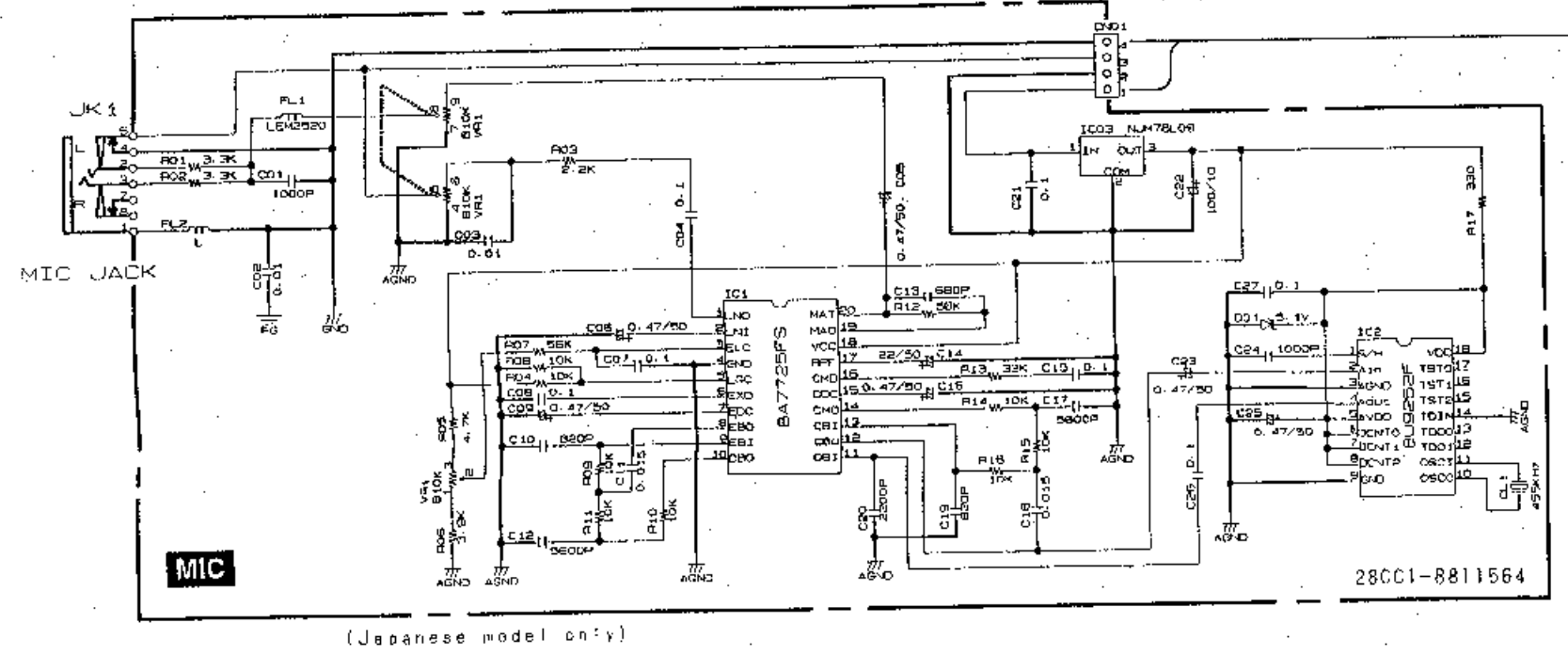
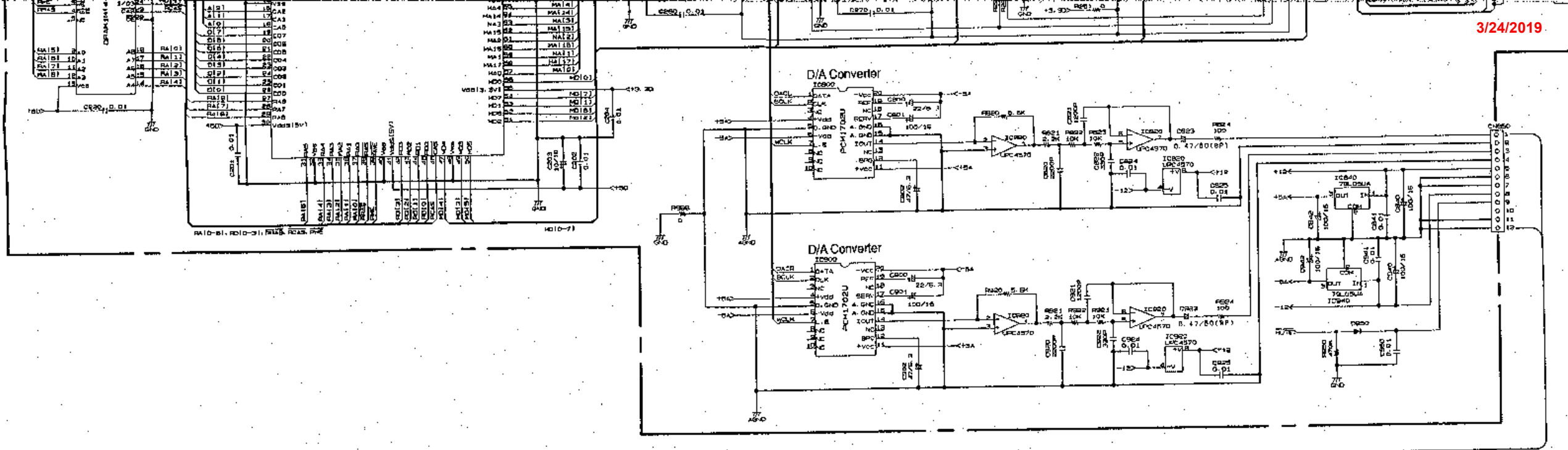
REF. NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY	5-20
10	NX818190	Bench	椅 子	U,X, CVP92 (VU67740)		
20	AX817730	Bench Board Assembly	座板 A s s ' y (U)	U,X	4	
30	CX816040	Leg Assembly	脚柱 A s s ' y (U)	U,X	4	
40	EX803780	Cap	脚 キ ャ ッ プ		4	
50	EX801050	Hexagonal Head Bolt	六 角 頭 ボ ル ト		4	
		Spring Washer	スプリングワッシャー		4	

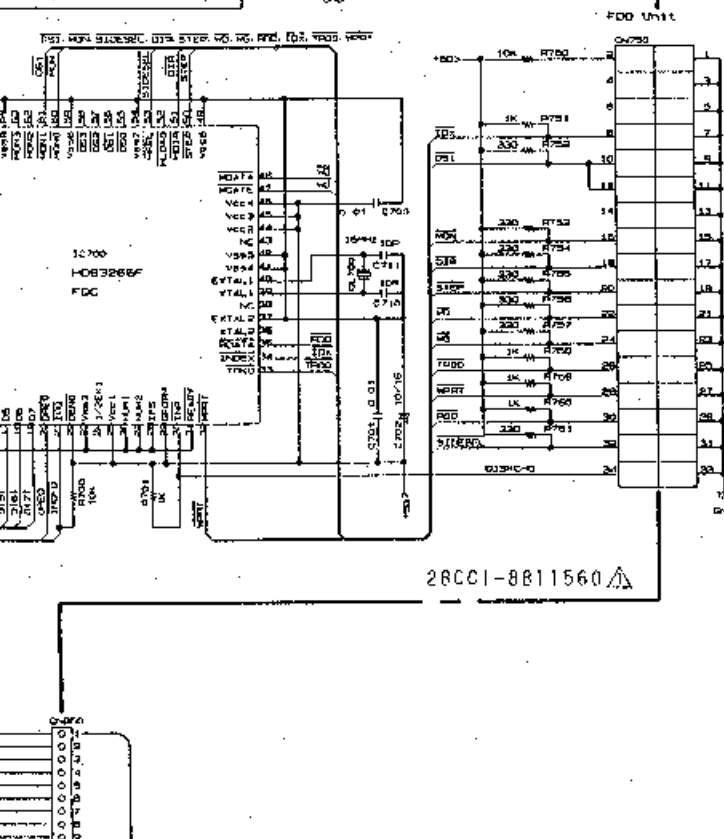
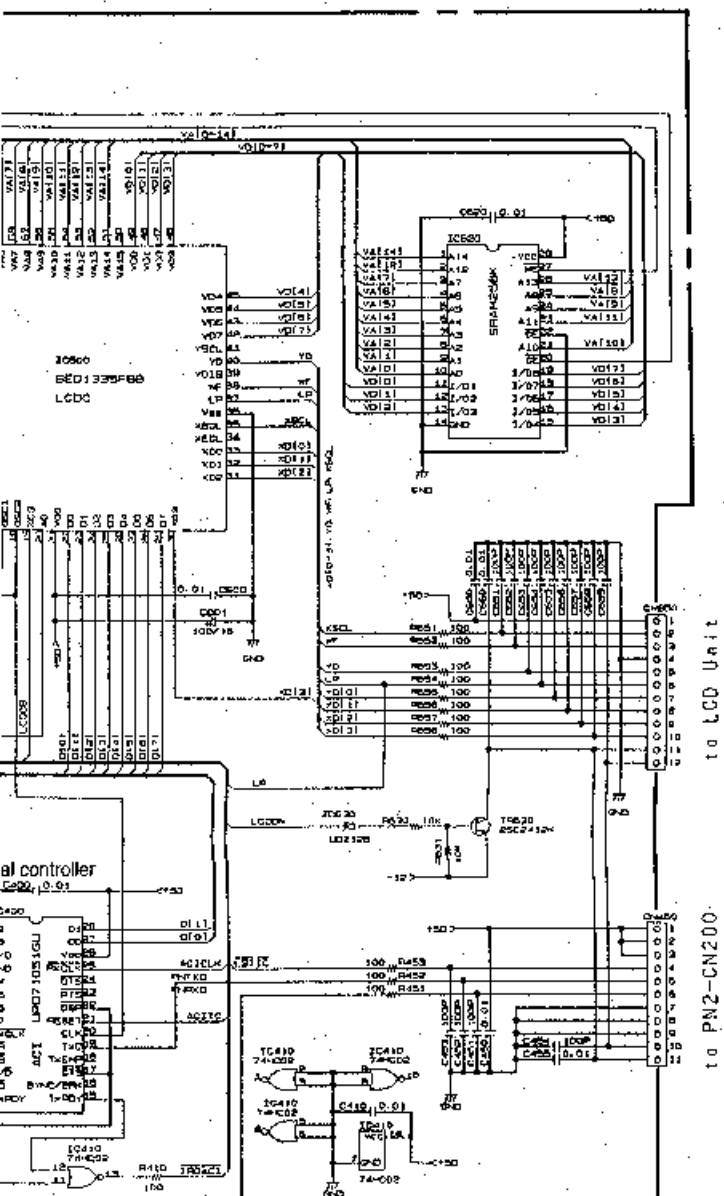
* New Parts (新規部品)

ランク : Japan only

■ CVP-92 OVERALL CIRCUIT DIAGRAM 1/2(DM, EQ, MIC, JACK1, HP, PEDAL, PL)







Notes

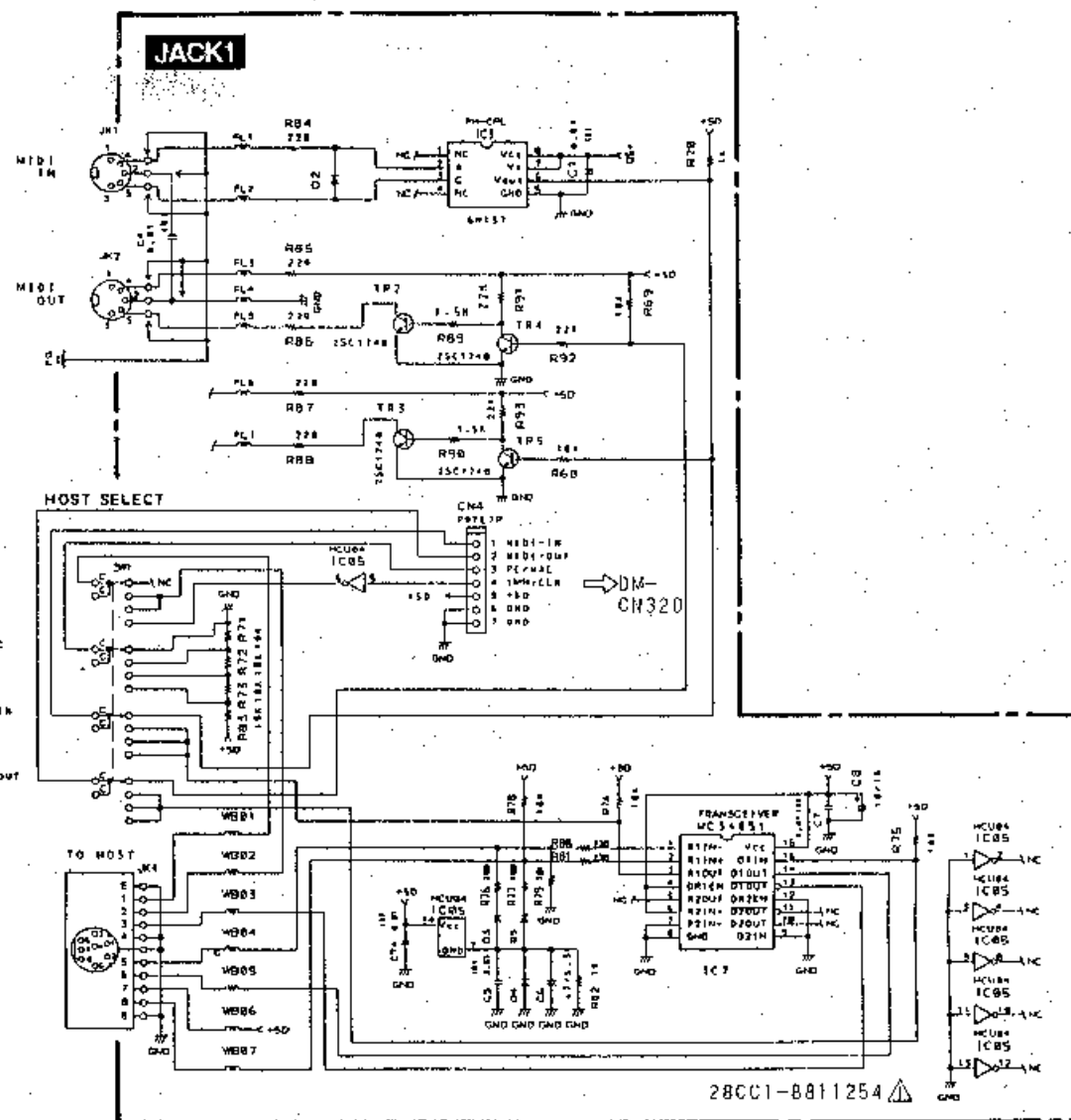
Circuit Board:

DM (VV516000) XS780B0

1. IC

- IC100: HD6437043E00F (XS936A00) CPU
 IC190: SN74HC132NS-R (XL112A00) NAND
 IC200: TC203C060AF-001 (XS724A00) SWP00M
 IC220: LH64256BK-70 (XS507A00) DRAM 256K or
 LH64256CK-70 (XS915A00) DRAM 256K
 IC240: UPC2933T (XS616A00) REGULATOR 3.3V
 IC260: LHMV55N0 (XS937100) WAVE 1, MASK ROM 32M
 IC270: LHMV75YD (XS938100) WAVE 2, MASK ROM 32M
 IC290: SN74HC139NSR (XC727A00) DECODER
 IC400: UPD71051GU-10-E2 (XS762A00) SERIAL CONTROLLER
 IC410: SN74HC02NSR (XC724A00) NOR
 IC500: KM416C256BLT-7 (XQ586A00) DRAM 4M or
 M5M44260CTP-7 (XS438A00) DRAM 4M or
 M5M5256DFP-70LL (XN279C00) SRAM 256K
 IC510,620: SN74HC00NSR (XE165A00) NAND
 IC520: MAIN (XS944E00) MAIN L, EPROM 8M
 IC530: MAIN (XS945E00) MAIN H, EPROM 8M
 IC540: LH537U0Y (XS942100) MASK ROM 16M STILE 1
 IC550: LH536U0R (XS943100) MASK ROM 8M STILE 2
 IC560: HD74LVC139FP (XS048A00) DECODER
 IC600: SED1335F0B (XQ585A00) LCDC
 IC700: HD63266F (XJ939A00) FDC
 IC800,900: PCM1702U (XP551A00) D/A CONVERTER
 IC820,920: UPC4570G2 (XF291A00) OP AMP

- C 821,921: 1200P 50V K (US063120)
 C 822,922: 330P 50V J (US062330)
 6. Electrolytic Cap. (chip)
 C 051,151,191: 203,501,702: 10 16V (UF037100)
 C 240: 1 50V (UF086100)
 C 242,601,801, 840,842,901, 940,942: 100 16V (UF088100)
 C 350,351: 330 6.3V UUR0 (UF118330)
 C 800,900: 22 6.3V (UF017220)
 C 802,902: 47 6.3V (UF017470)
 7. Electrolytic Cap.-BP (chip)
 C 823,923: 0.47 50V (UF265470)
 8. Super Capacitor
 C 612: 0.100F 5.5V FYD0 (V055000)
 9. Chip Inductance
 L310,311,312, 313: 56U LEM2520 T 56 (VR243700)
 10. Carbon Resistor (chip)
 R 000-021,030,031,040-043, 050-054,100-131,170-173, 200,201,292,321-324,331-334,410,451-453,511,550, 561,570-573,651-658,824, 924: 100 63M J (RD355100)
 R 032,033,044-049,055-058, 150-152,154-156,164,165, 174,176,177: 47K 63M J (RD357470)
 R 060,211: 880 63M J (RD355680)
 R 061: 3.3K 63M J (RD356330)
 R 062: 220 63M J (RD355220)
 R 063,251,253,989: 0 63M J (RD350000)
 R 153,163,193,195,630,631, 700,750,822,823,922,923: 10K 63M J (RD357100)
 R 160,161,172,195,701,751, 758,759,760: 1.0K 63M J (RD356100)
 R 175,176,180,181,182,183,184,185, 186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000



Notes

Circuit Board:

HP (VT478400) XO795A0

1. IC

C 1-5:

Semiconductive Cera. Cap.

0.1000 25V Z (VE659000)

2. Coil

FL 1-6:

FL5R200QN (VB971100)

3. Carbon Resistor

R 1-4:

68.0 1/2 J (VK992200)

4. Phone Jack

HP 1-2:

YKB21-5006 (LB101870)

5. Connector

CN 1:

PH-7P SE (VB858600) to EQ-CN5

CN 2:

PH-2P SE (VB858100) to PL-CN1

CN 3:

XH-2P SE (LB919020) to key bed and front rail ground

6. Jumper Wire

C 6,7:

0.65 (VD041700)

R 5:

0.55 (VD041700)

Notes

Circuit Board:

JACK1 (VY715100) XR598C0

1. IC

IC5:

SN74HCU04N (IG142250) INVERTER

IC7:

MC34051P (XP094A00) LINE TRANSCEIVER

2. Transistor

TR 2,4:

2SC1740S R,S (IC174070)

3. Diode

D 2-5:

1SS133,1SS176 (VB941200)

4. Photo Coupler

IC3:

6N137 (VD473200)

5. Ceramic Capacitor-F

C 1,4,5,7,74,75:

0.0100 50V Z (FG644100)

6. Electrolytic Cap.

C 8:

10.00 16.0V (UJ837100)

7. Electrolytic Cap.-BP

C 6:

47.00 6.3V (UN817470)

8. Carbon Resistor

R 69,71-75,78,

79,83: 10.0K 1/4 J (HF757100)

R 70,82:

1.0K 1/4 J (HF756100)

Notes

Circuit Board:

EQ (VY637800) XT121C0

1. IC

IC01:

UPC4570G2 (XF291A00) OP AMP

IC02:

LA6517M-TE-R (XT131A00) OP AMP

IC03,04:

M5227FP (XL252A00) EQUALIZER

2. Transistor

TR 1:

2SC2412K O,R,S (VV556400)

3. Diode

D 01:

MA221 (VB493900)

3. Mylar Capacitor

C 104,204:

0.0560 50V J (UA354560)

C 105,205:

0.0330 50V J (UA354330)

C 106,206:

0.0220 50V J (UA354220)

C 107,207:

6800P 50V J (UA353680)

C 108,109,208,

209: 8200P 50V J (UA353820)

C 110,210:

100P 50V J (UA352100)

4. Monolithic Mylar Capacitor

C 13,14:

0.10 50V J (VE326000) or

ECQ-V1H104JL3 (VR168300)

C 101,201:

0.27 50V J (VE326500) or

ECQ-V1H274JL3 (VR168900)

C 102,103,202,

203: 0.12 50V J (VE326100) or

ECQ-V1H124JL3 (VR168400)

5. Monolithic Ceramic Cap.

C 01,03:

SL 560P 50V J (UB052560)

C 06,09:

B 1500P 50V K (UB013150)

C 11,12:

SL 120P 50V J (UB052120)

C 16,18,19,20:

B 1000P 50V K (UB013100)

C 21:

F 0.010 50V Z (UB044100)

6. Electrolytic Cap.

C 15,17:

1.00 50.0V (UJ866100)

C 23,24:

100.00 16.0V (UJ838100)

7. Electrolytic Cap.-BP

C 05,08:

47.00 25.0V (UN847470)

8. Carbon Resistor (chip)

JP:

0.0 0.0 J (RD250000)

R 01,07:

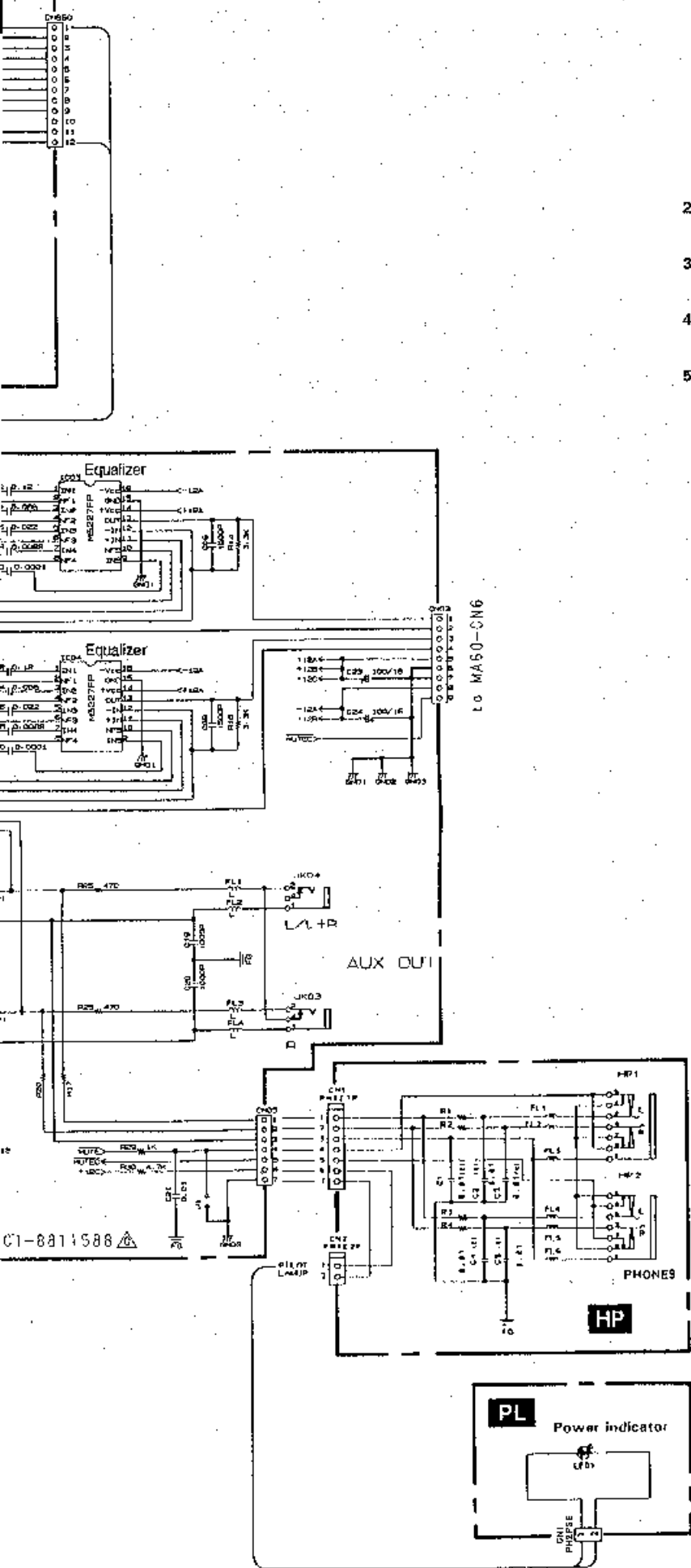
12.0K 0.1 J (RD257120)

R 02,08,106,208:

22.0K 0.1 J (RD257220)

R 04,10,23,24,28:

10.0K 0.1 J (RD257100)



IC550:	18M STILE 1 LH538UOR (XS943100) MASK ROM
IC560:	8M STILE 2 HD74LVC139FP (XS048A00) DECODER
IC600:	SED1335F0B (XC595A00) LCDC
IC700:	HD63266F (X1839A00) FDC
IC800,900:	PCM1702U (XP561A00) D/A CONVERTER
IC820,920:	UPC4570G2 (XF291A00) OP AMP
IC840:	NJM78L05UA (XJ598A00) REGULATOR 5V
IC940:	NJM78L05UA (XN086A00) REGULATOR -5V
2. Transistor	
TR 190:	2SA1162 O.Y. (VJ927200)
TR 191,630:	2SC2412K Q,R,S (VV568400)
3. Diode	
D 190,510,511, 950:	MA221 (VB493900)
4. Zener Diode	
ZD 510:	UDZ 5.6BTE-17.5 (VU172000)
ZD 630:	UDZ 12B TE-17.1 (VU172800)
5. Ceramic Capacitor-CH (chip)	
C 001,050,100,150,190,200-202, 204-206,220,260,270,290,310, 320,330,400,410,450,465,500, 510,511,515,520,530,540,550, 560,600,620,650,660,700,701, 824,825,841,924,925,941,950:	
C 010,011:	0.0100 50V K (US064100)
C 012,014,160, 161:	0.1000 16V Z (US135100)
C 013:	470P 50V J (US062470)
C 210,211,710, 711:	10P 50V D (US061100)
C 311-313,321-324,331-334,451, 454,651-659:	100P 50V J (US062100)
C 820,920:	2200P 50V K (US063220)

R 061:	3.3K 63M J (RD356330)
R 062:	220 63M J (RD355220)
R 063,251,253,999:	0.63M J (RD350000)
R 153,163,193,198,630,631, 700,750,822,823,922,923:	10K 63M J (RD357100)
R 160,161,172,195,701,751, 758,759,760:	1.0K 63M J (RD356100)
R 162,194,198,950:	470K 63M J (RD358470)
R 175:	1.5K 63M J (RD356150)
R 190:	2.7K 63M J (RD356270)
R 191:	8.2K 63M J (RD356820)
R 192,197:	22K 63M J (RD357220)
R 210:	1.0M 63M J (RD359100)
R 510:	470.0 0.1 J (RD255470)
R 752,753,754,755,756,757, 761:	330 63M J (RD356330)
R 820,920:	5.6K 63M J (RD356560)
R 821,921:	2.2K 63M J (RD356220)
11. Quartz Crystal Unit	
XL 200:	33.8688M SMD-49 (VT685200)
XL 100:	7M SMD-49 (VV762900)
12. Ceramic Resonator	
CL 700:	16M CSACS16.00MX (VQ274900)
CL 400:	CSTCC4.00MG0H6-T (VV905100)
13. IC Socket	
	DICF-42CS-E (VK863100)
14. Connector	
CN 310:	PH- 6P TE (VB390200) to pedal
CN 320:	PH- 7P TE (VB390300) to JACK1-CN4
CN 330:	PH- 8P TE (VB390400) to AEXL88 L-CN1
CN 350:	PH- 7P TE (VB390300) to MA60-CN4
CN 450:	PH-11P TE (VB390700) to PN2-CN200
CN 650:	PH-12P TE (VB390800) to panel LCD
CN 750:	34P TE (VQ391300) to FDD
CN 850:	PH-12P TE (VB390800) to EQ-CN2

Notes

Circuit Board:	MIC (VY636000) XT119B0
1. IC	
IC01:	BA7726FS-E2 (XT129A00) COMPANDER
IC02:	BU9252F-E2 (XT130A00) DIGITAL DELAY
IC03:	NJM78L09A (XJ597A00) REGULATOR +9V
2. Zener Diode	
D 01:	UDZ 5.1BTE-17.5 (VU171900)
3. Monolithic Ceramic Cap.	
C 01,24:	B 1000P 50V K (UB013100)
C 02,03:	F 0.010 50V Z (UB044100)
C 04,07,08,15,21, 26,27:	F 0.100 25V Z (UB245100)
C 10,19:	B 820P 50V K (UB012820)
C 11,18:	F 0.015 50V Z (UB044150)
C 12,17:	B 5600P 50V K (UB013560)
C 13:	B 680P 50V K (UB012680)
C 20:	B 2200P 50V K (UB013220)
4. Electrolytic Cap.	
C 05,06,09,16, 23,25:	0.47 50.0V (UJ865470)
C 14:	22.00 50.0V (UJ867220)
C 22:	100.00 10.0V (UJ828100)
5. Carbon Resistor (chip)	
JP:	0.0 0.0 J (RD250000)
R 01,02:	3.3K 0.1 J (RD256330)
R 03:	2.2K 0.1 J (RD256220)
R 04,08,09,10, 11,14,15,16:	10.0K 0.1 J (RD257100)
R 05:	4.7K 0.1 J (RD256470)
R 06:	3.9K 0.1 J (RD256390)
R 07,12:	56.0K 0.1 J (RD257560)
R 13:	33.0K 0.1 J (RD257330)
R 17:	330.0 0.1 J (RD255330)

C 1,4,5,7,74,75:	0.0100 50V Z (FG644100)
6. Electrolytic Cap.	
C 8:	10.00 16.0V (UJ837100)
7. Electrolytic Cap.-BP	
C 6:	47.00 6.3V (UN817470)
8. Carbon Resistor	
R 89,71-75,78, 79,83:	10.0K 1/4 J (HF757100)
R 70,82:	1.0K 1/4 J (HF756100)
R 76,77:	100.0 1/4 J (HF755100)
R 80,81,84-86:	220.0 1/4 J (HF755220)
R 89:	1.5K 1/4 J (HF756150)
R 91-93:	22.0K 1/4 J (HF757220)
9. Slide Switch	
SW 1:	SSSF144-S06N-0 (VQ865200) HOST SELECT
10. Coil	
FL 1-5:	FL5R200QNT (VB835000)
11. Ferrite Bead	
WB 1-7:	BL02RN2-R62T4 (GE300670)
12. DIN Connector	
JK 1,2:	5P YKF51-50 (VT202500) MIDI IN/OUT
JK 4:	DIN-8P MD-S810 (VM761000) TO HOST
13. Connector Base Post	
CN 4:	PH- 7P TE (VB390300) to DM-CN320
14. Jumper Wire	
	0.55 (VD041700)
15. Cable, Earth	
	(VG925900)

6. Electrolytic Cap.	
C 15,17:	1.00 50.0V (UJ866100)
C 23,24:	100.00 16.0V (UJ838100)
7. Electrolytic Cap.-BP	
C 05,08:	47.00 25.0V (UN847470)
8. Carbon Resistor (chip)	
JP:	0.0 0.0 J (RD250000)
R 01,07:	12.0K 0.1 J (RD257120)
R 02,08,106,206:	22.0K 0.1 J (RD257220)
R 04,10,23,24,28:	10.0K 0.1 J (RD257100)
R 05,11:	3.9K 0.1 J (RD256390)
R 13,15,30:	4.7K 0.1 J (RD256470)
R 14,16:	3.3K 0.1 J (RD256330)
R 18,21:	39.0K 0.1 J (RD257390)
R 19,22:	33.0 0.1 J (RD254330)
R 25,26:	470.0 0.1 J (RD255470)
R 27,29,101,103,105,201, 203,205:	1.0K 0.1 J (RD256100)
R 102,104,109, 202,204,209:	18.0K 0.1 J (RD257180)
R 107,207:	2.7K 0.1 J (RD256270)
R 108,208:	15.0K 0.1 J (RD257150)
R 110,210:	1.5K 0.1 J (RD256150)
9. Coil	
FL 2,4,6,9:	SBT-0210T (VT733400)
10. Chip Inductance	
FL 1,3:	56U LEM2520 T 56 (VR243700)
11. Relay	
RY 01:	DC RY12W (KC001900) or DC G5V-2 (VL406800) or DC G5V-2-H1 (VR745400)
12. Phone Jack	
JK 1,2,3,4:	LGR1609-7000 BL (VS115400) AUX IN/OUT
13. Connector Base Post	
CN 1:	PH- 8P TE (VB390400) to MV-CN150
CN 2:	PH-12P TE (VB390800) to DM-CN850
CN 3:	PH- 9P TE (VB390500) to MA60-CN6
CN 5:	PH- 7P TE (VB390300) to HP-CN1
CN 6:	PH- 4P TE (VB390000) to MIC-CN1
14. Jumper Wire	
	0.55 (VD041700)
15. Cable, Earth	
	(VG925900)

Notes

Circuit Board:	MIC (VY636000) XT119B0
1. IC	
IC01:	BA7726FS-E2 (XT129A00) COMPANDER
IC02:	BU9252F-E2 (XT130A00) DIGITAL DELAY
IC03:	NJM78L09A (XJ597A00) REGULATOR +9V
2. Zener Diode	
D 01:	UDZ 5.1BTE-17.5 (VU171900)
3. Monolithic Ceramic Cap.	
C 01,24:	B 1000P 50V K (UB013100)
C 02,03:	F 0.010 50V Z (UB044100)
C 04,07,08,15,21, 26,27:	F 0.100 25V Z (UB245100)
C 10,19:	B 820P 50V K (UB012820)
C 11,18:	F 0.015 50V Z (UB044150)
C 12,17:	B 5600P 50V K (UB013560)
C 13:	B 680P 50V K (UB012680)
C 20:	B 2200P 50V K (UB013220)
4. Electrolytic Cap.	
C 05,06,09,16, 23,25:	0.47 50.0V (UJ865470)
C 14:	22.00 50.0V (UJ867220)
C 22:	100.00 10.0V (UJ828100)
5. Carbon Resistor (chip)	
JP:	0.0 0.0 J (RD250000)
R 01,02:	3.3K 0.1 J (RD256330)
R 03:	2.2K 0.1 J (RD256220)
R 04,08,09,10, 11,14,15,16:	10.0K 0.1 J (RD257100)
R 05:	4.7K 0.1 J (RD256470)
R 06:	3.9K 0.1 J (RD256390)
R 07,12:	56.0K 0.1 J (RD257560)
R 13:	33.0K 0.1 J (RD257330)
R 17:	330.0 0.1 J (RD255330)

Notes

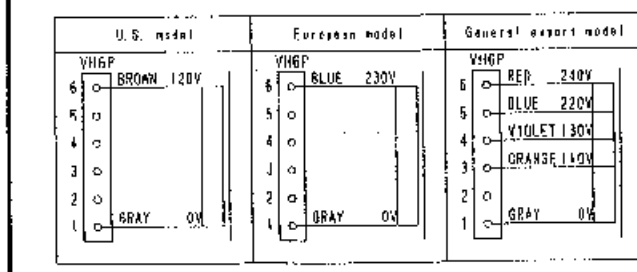
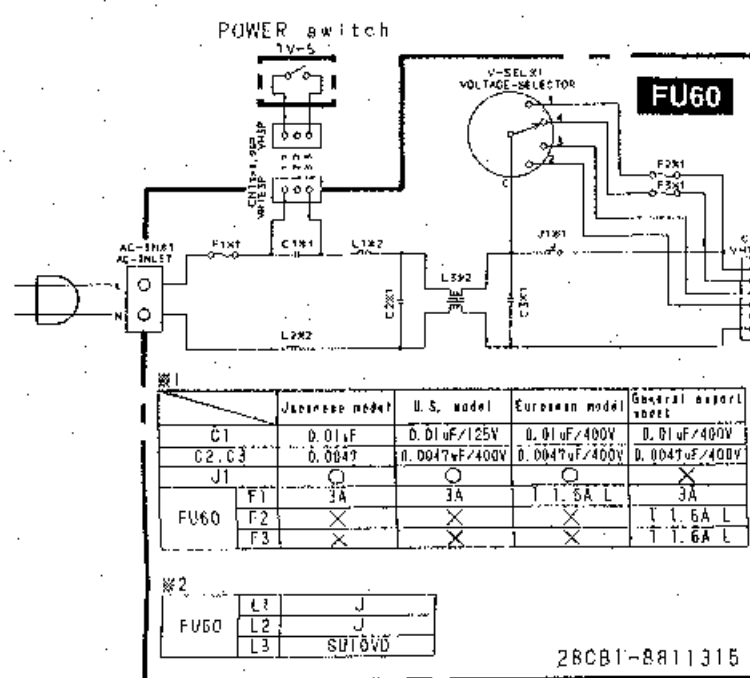
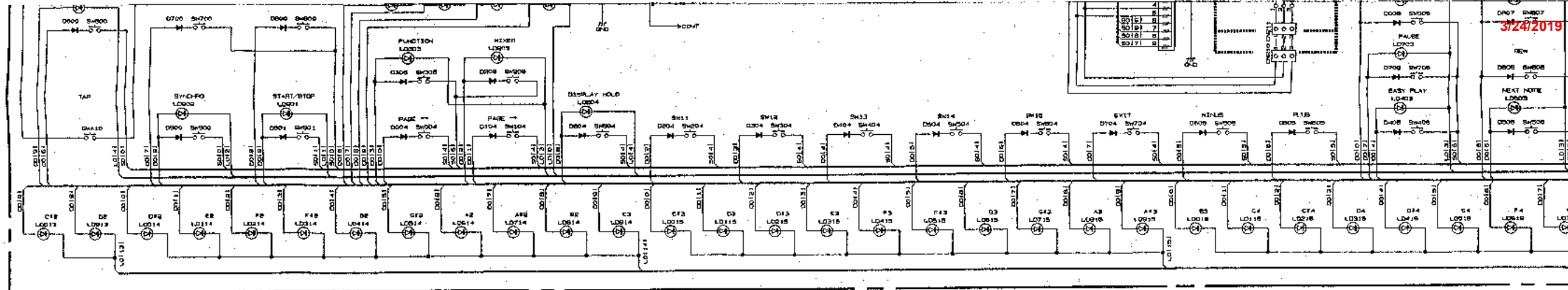
Circuit Board:	PEDAL (VU468800) (XR780B0)
1. Connector Base Post	
CN 01:	PH- 6P TE (VB390200) to DM-CN310
2. Jumper Wire	
	0.55 (VD041700)

Notes

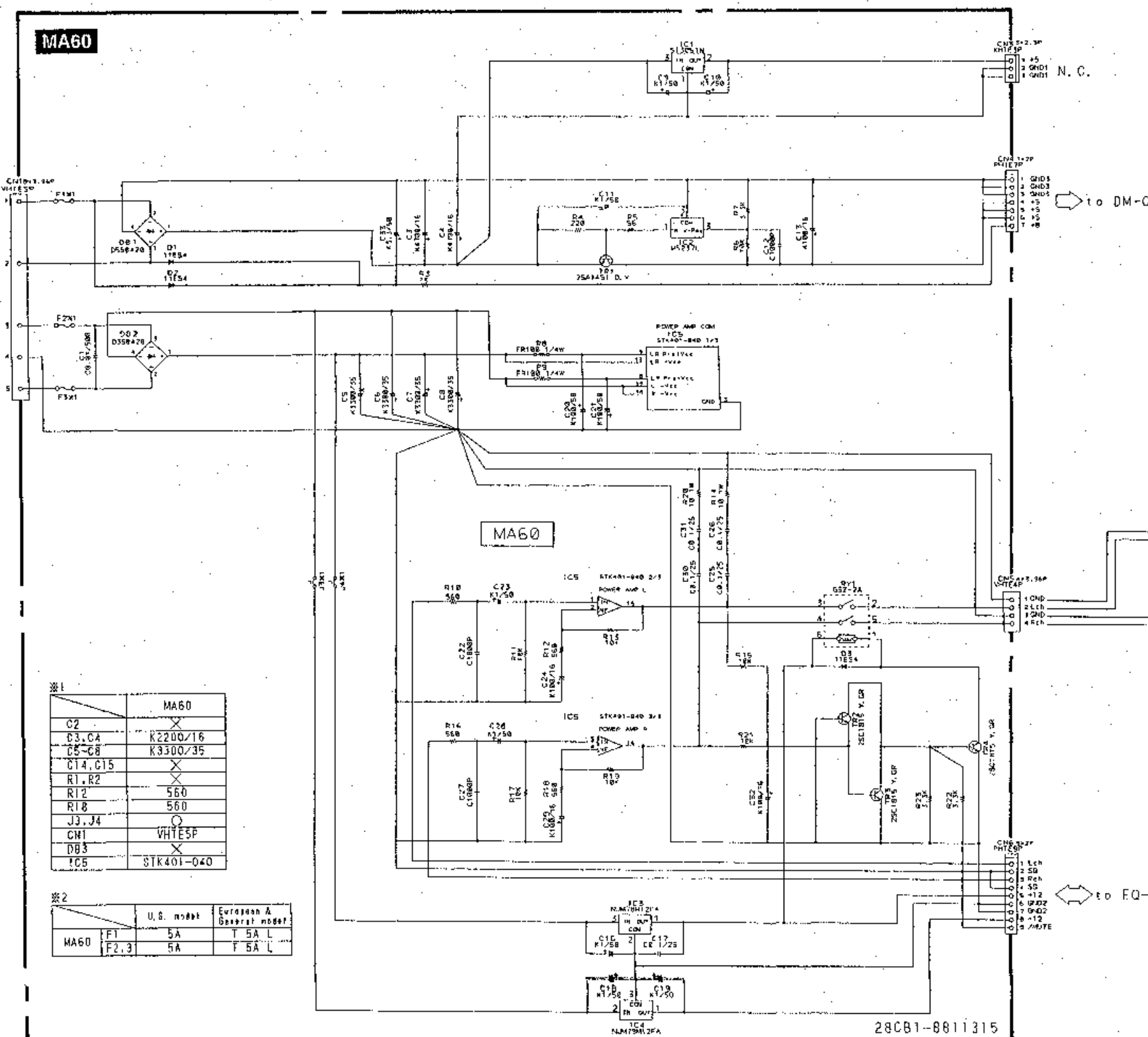
Circuit Board:	PL (VN637600) (XL151B0)
1. LED	
LED 1:	SLZ-190B-03 RE (VD180000)
2. Connector Base Post	
CN 1:	PH- 2P SE (VB858100) to HP-CN2

2		3
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MA60

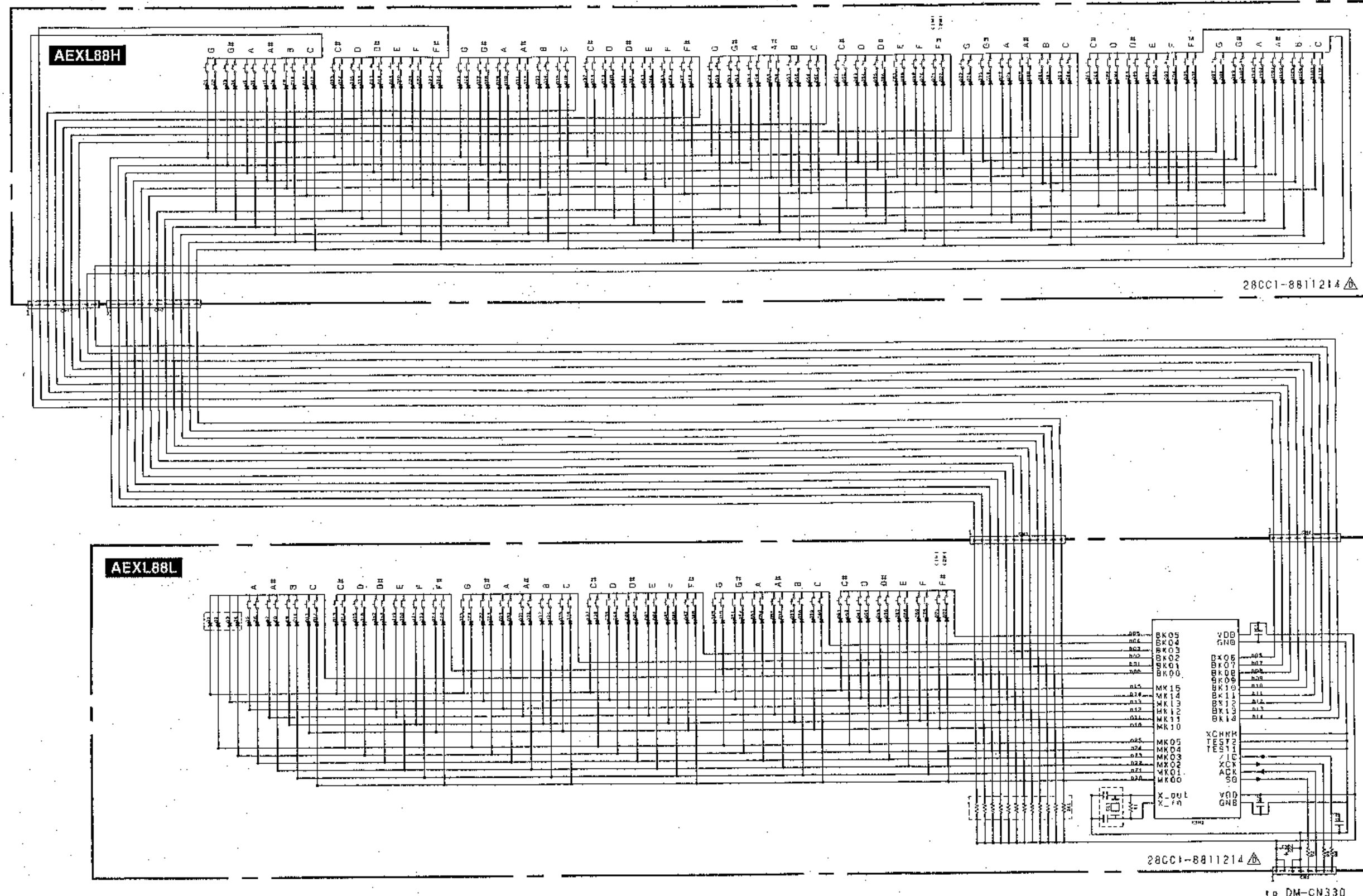
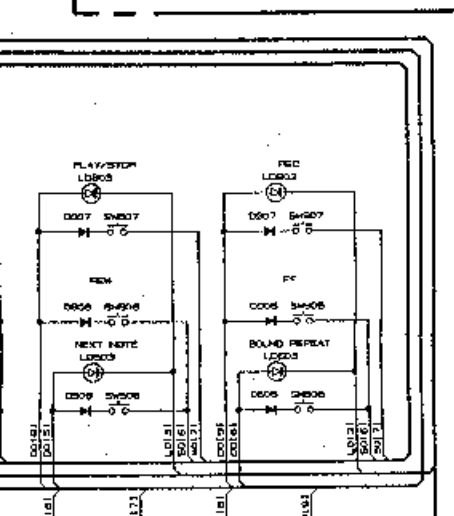
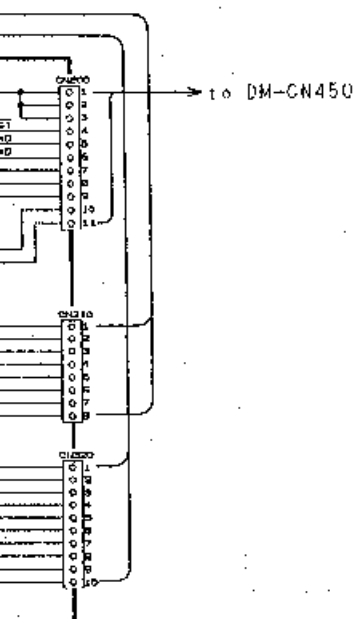
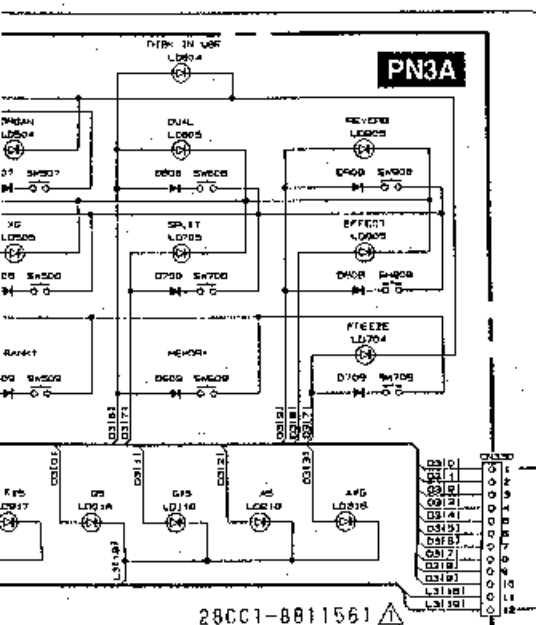
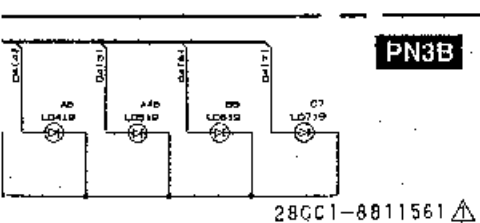


MA60

C2	
C3, C4	K2200/16
C5-C8	K3300/35
C14, C15	
R1, R2	560
R12	560
J3, J4	
CN1	WHITE5P
DB3	
IC5	STK401-040

MA60

	U.S. model	European & General export model
F1	5A	1.5A L
F2, F3	5A	1.5A L



Notes)

Circuit Board: PN1A (V516300) XS781B0
 PN1B (V516400) XS781B0
 PN3A (V516500) XS781B0
 PN3B (V516600) XS781B0
 MV (V516700) XS781B0

1. Diode

D 000-002,007-009,100-102,
 107-109,200-202,207-209,
 300-302,307-309,400-402

Notes)

Circuit Board: PN2 (V515900) (XS782B0)
 1. IC
 IC100: MN101C027 (XS711100) CPU
 2. Digital Transistor
 TR 401,402: DTB113ZS TP (VT817300)
 3. Transistor Array
 IC200,300: TD823B1P (VJ041400)
 IC400: TD823B1P SOURCE (VJ041400)

4. Diode

Digitized by Renzo de Vries

Notes)

Circuit Board: MA60 (--) JU (VT14390)
 XQ393E0
 MA60 (--) BEX (VT14400)
 XQ393E0

1. IC

IC1: SI3051N (XQ437A00) REGULATOR
 +5V
 IC2: M5237L (XQ667A00) REGULATOR
 +5V

Notes)

Circuit Board: FU60 (--) J VT15140, XQ395A0
 FU60 (--) U VT15150, XQ395B0
 FU60 (--) BE VT15160, XQ395C0
 FU60 (--) X VT15290, XQ395D0

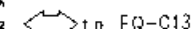
1. Capacitor

C 01: 0.01 400V J.U.C (VT575200)
 C 02,03: 4700P 400V U.C.S (F1383470)

2. Coil

L3: SU10V-D20010 (VF790900)

Not for sale!



- | | |
|-------------------------------|---|
| Notes) | |
| Circuit Board: | FUE60 (--) J VT15140, XQ0395A0
FU60 (--) U VT15150, XQ03950
FU50 (--) BE VT15160, XQ03950
FU60 (--) X VT15290, XQ03950 |
| 1. Capacitor | |
| C 01: | 0.01 400V J.U.C (VT575200) |
| C 02,03: | 4700P 400V U.C.S (F1383470) |
| 2. Coil | |
| L3: | SU10V-D20010 (VF790900) |
| 3. Fuse | |
| F1: | TL 1.60A (KB003060) BE
T 3.00A (KB003590) JUX
TL 1.60A (KB003060) X |
| F2,3: | |
| 4. Voltage Selector | M1684-B (VT139600) X |
| 5. AC Inlet | CCT9302-0101M (VT308100) JBEX
CCT9302-0201 (VT308200) U |
| 6. Fuse Holder | PC-PH1 (LB201530) JUBEX |
| 5. Base Post Connector | |
| CN 1: | VH- 3P TE (LB932030) to power switch |
| CN 2: | VH- 6P TE (LB932060) to power transformer primary |
| 7. Jumper Wire | |
| | 0.55 (VD041700) |
| J 1: | 0.55 (VD041700) JUBE |
| L 1,2: | 0.55 (VD041700) |
| Notes) | |
| Circuit Board: | AEXL88 L (VU342300) XR775C0 |
| 1. IC | |
| KSN2: | YMZ702-D (XR632A00) KSN2 |
| 2. Diode | |
| D: | 1SS133, 1SS176 (VB941200) |
| 3. Ceramic Capacitor-F | |
| C 1,2,3: | 0.0100 50V Z (FG644100) |
| 4. Electrolytic Cap. | |
| C 5: | 100.00 10.0V (VF760000) |
| 5. Carbon Resistor | |
| R 1: | 1.0M 1/4 J (HF759100) |
| R 2,3: | 100.0 1/4 J (HF755100) |
| R 4: | 1.0K 1/4 J (HF756100) |
| 6. Resistor Array | |
| RA 1: | RGLD12X103J (VU463500) |
| 7. Ceramic Resonator | |
| CL 1: | CST4.00MGW040 (VI653000) |
| 8. Connector Base Post | |
| CN 1: | PH- 8P TE (VB390400) to DM-CN330 |
| CN 2: | PH- 9P TE (VB390500) to AEXL88H-CN1 |
| CN 3: | PH-12P TE (VB390800) to AEXL88H-CN2 |
| 9. Jumper Wire | |
| J 1,2: | 0.55 (VD041700) |
| Notes) | |
| Circuit Board: | AEXL88 H (VU342400) XR776C0 |
| 1. Diode | |
| D: | 1SS133, 1SS176 (VB941200) |
| 2. Connector Base Post | |
| CN 1: | PH- 9P TE (VB390500) to AEXL88L-CN2 |
| CN 2: | PH-12P TE (VB390800) to AEXL88L-CN3 |

