# DENON

## **SERVICE MANUAL**

## **ELECTRONIC PIANO**

## MODEL EP-5500

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NIPPON COLUMBIA CO., LTD.

#### **CAUTIONS**

#### **CAUTION:**

• Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if it the resistance from chassis to either side of the power cord is less than 240 Kohms, the unit is defective.

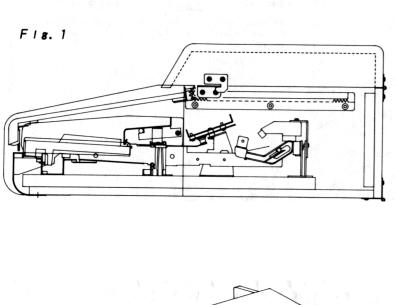
#### **WARNING:**

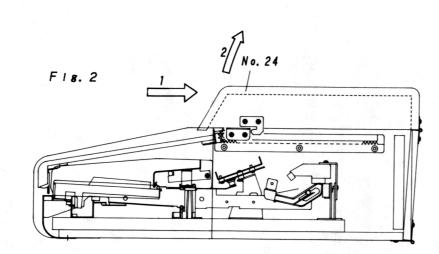
- Parts marked with this symbol have critical characteristics.
   Use ONLY replacement parts recommended by the manufacturer.
- DO NOT return the unit to the customer until the problem is located and corrected.

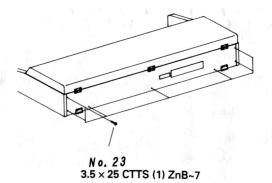
#### LIST OF P.C. Board UNIT

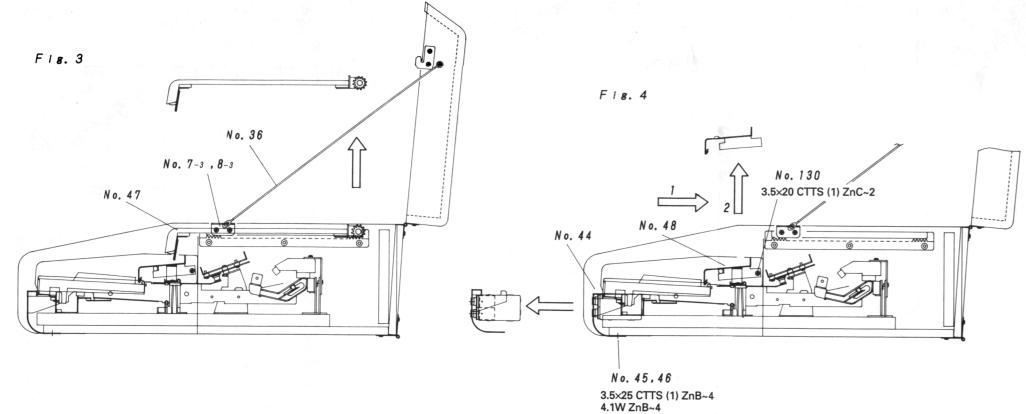
Name of P.C. Board	UNIT No.	Remarks
SWITCH BOARD I	BP-343	
SWITCH BOARD II	BP-339	
SWITCH BOARD III	BP-344	
SWITCH BOARD IV	BP-341	
MAIN PCB	BP-421-2	
EFFECT BOARD	BP-422-1	·
POWER BOARD	BP-419-1	-
PANEL BOARD	BP-420-3	
L/FILTER BOARD	BP-393-2	U.S.A., Canada Models
	BP-393-3	Europe, U.K., Asia Models

## **EP-5500 CABINET MECHANICAL PARTS REMOVAL**

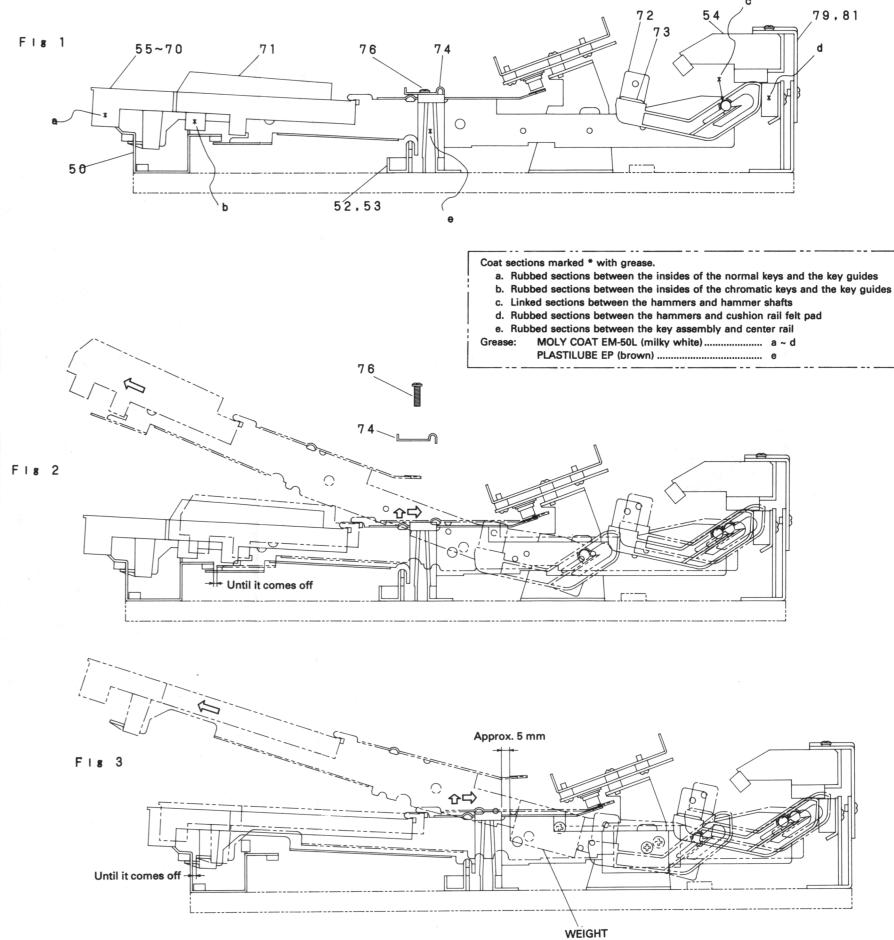


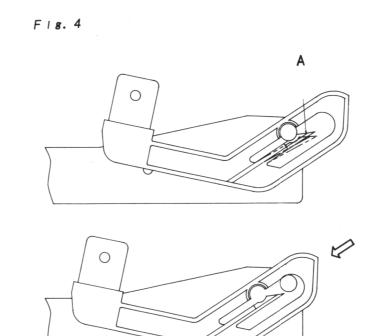






- 1. Remove roof board assembly 24. (Fig. 1)
- 1) Remove seven (7) screws 23 (3.5  $\times$  25 CTTS(1)).
- 2) Move roof board assembly 24 in the direction of arrow 1 and lift it in the direction of arrow 2.
- 3) Hook stay 36 to joint bracket (A) 7-3. (Fig. 2)
- 2. Remove key cover assembly 47. (Fig. 3)1) Lift key cover assembly 47 to remove it.
- 3. Remove top panel semi-assembly 48 and front panel 44. (Fig. 4)
- 1) Remove two (2) screws 130 (3.5  $\times$  20 CTTS(1)) and move top panel semi-assembly 48 in the direction of arrow 1 and then in the direction of arrow 2 to remove it.
- 2) Remove four (4) screws 45 (3.5  $\times$  25 CTTS(1)) and four (4) washers 46 (4.1 W), then remove front panel 44 in the direction of the arrow.





### Keyboard Removal (grand hammer action) - Section View (Fig. 1)

- \* Remove chromatic keys first, and install normal keys first.
- 1. Chromatic key removal (Fig. 2)
- 1) Remove two (2) screws 76 (3.5  $\times$  12 CBTS (2)) (1 block) and then key stopper 74.
- 2) Lift key assembly (B) 71 and move it backwards, then release the upper limit stopper at the front bottom from front guide rail assembly 50.
- 3) Lift the front of the chromatic key and pull it out to the front.Since hammers 72 and 73 rotate freely at this time, hold them with your fingers
- 2. Normal key removal (Fig. 3)

so the key can be pulled out easily.

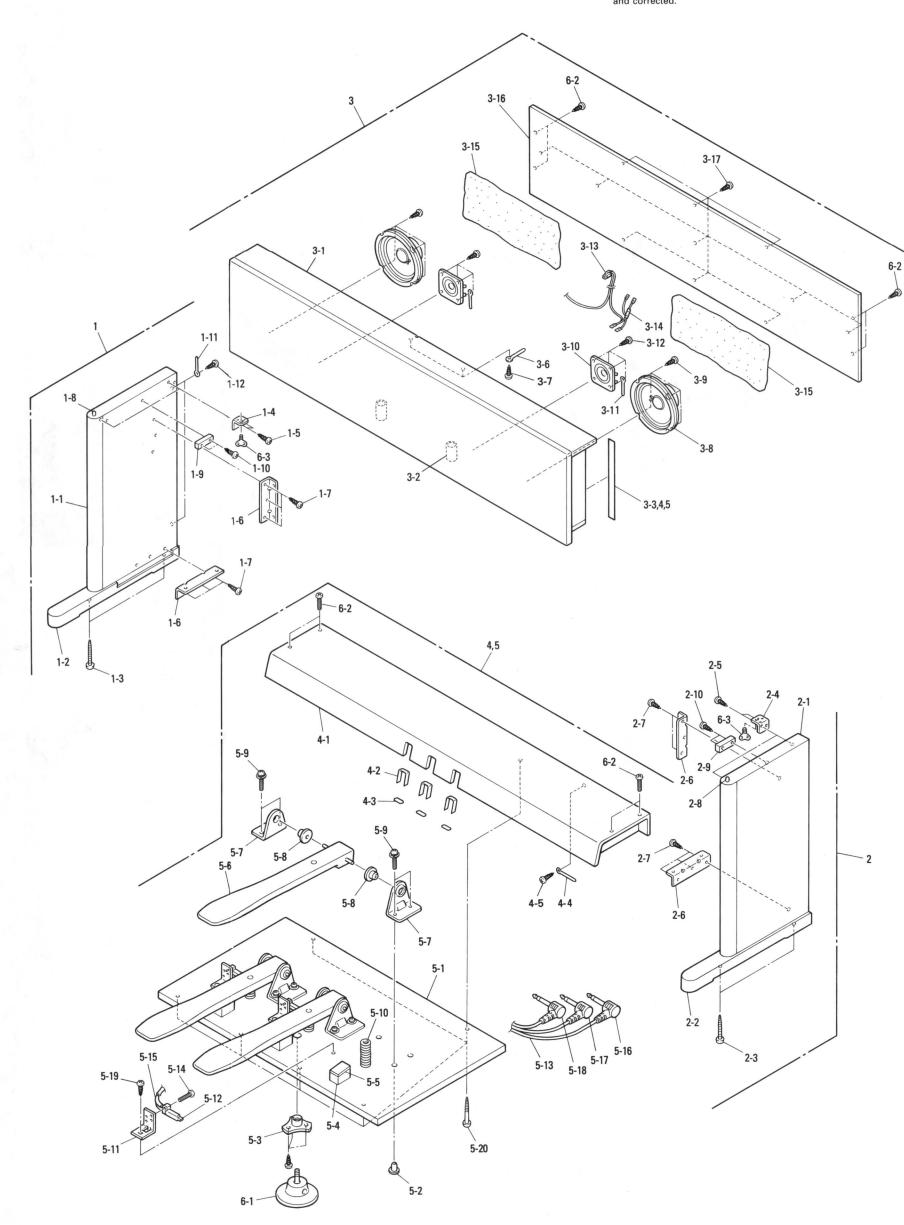
- 1) Lift key assemblies (W) 55~70 and move them backwards, then release the upper limit stopper at the front bottom from front guide rail assembly 50.
- 2) Lift the front of the normal key and pull it to the front obliquely until approx. 5 mm before the weight hits center rails 52 and 53, then twist it to the left or right by approx. 45° to pull it out.
- Since hammers 72 and 73 rotate freely at this time, hold them with your fingers so the key can be pulled out easily.
- 3. Hammer removal (Fig. 4)
- 1) Push section A of hammers 72 and 73 to widen it and push the hammer in the direction of the arrow.

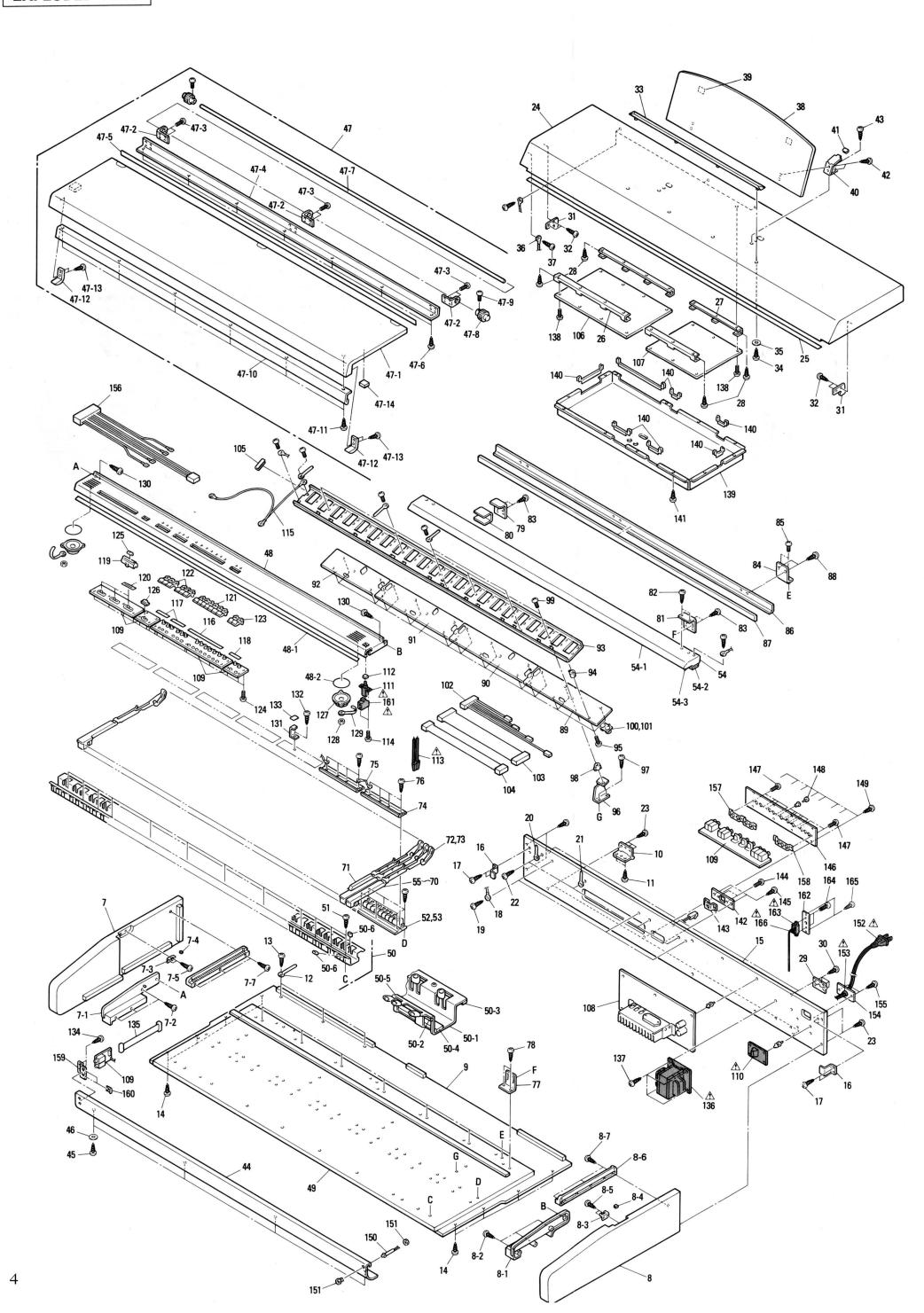
#### WARNING:

Parts marked with  $\triangle$  this symbol have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

DO NOT return the unit to the customer until the problem is located and corrected.





## PARTS LIST OF EXPLODED VIEW

No. Part Name			_		
SIDE PANEL (L) ASS'Y	N <sub>C</sub>	Part Namo		P-5500	
1 SIDE PANEL (L) ASS'Y 1 1 1077519002 2 FOOT (L) 1 1 1077520004 3 4 × 40 CTTS (1) 2 4734803032 4 JOINT BRACKET 2 4 1277184009 5 3.5 × 16 CTTS (1) 4 4734806626 6 JOINT BRACKET (B) 2 41727209007 7 3.5 × 16 CTTS (1) 6 4734806026 8 DOWEL 66 × 30 1 1 1077521003 1 1 1077521003 1 1 1077521003 1 1 10 3.1 × 25 CFWS 2 4722311015 1 10 CORD HOLDER 2 EP-4772 2 13 × 16 CTRS (1) 1 1 1077522002 2 SIDE PANEL (R) ASS'Y 1 1 1077522002 2 SIDE PANEL (R) ASS'Y 1 1 1077523001 2 SIDE PANEL (R) 3 1 × 40 CTTS (1) 2 4734803032 4 JOINT BRACKET 2 4127184009 3 4 × 40 CTTS (1) 2 4734803032 4 JOINT BRACKET 2 4127184009 5 3.5 × 16 CTTS (1) 4 4734806026 6 JOINT BRACKET (B) 2 4127209007 7 3.5 × 16 CTTS (1) 4 4734806026 6 JOINT BRACKET (B) 2 4127209007 7 3.5 × 16 CTTS (1) 4 4734806026 6 JOINT BRACKET (B) 1 107752400 1 3.1 × 25 CFWS 1 1077525009 1 1 1 1077525009 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,40.	rait ivaine	Q'ty	Part No.	Remarks
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4-1 PEDAL BOX 1 1077533004 -2 PEDAL FELT 3 1247131016 -3 PEDAL FELT 3 1247119009 -4 CORD HOLDER 1 EP-4772 -5 3 × 8 CBRTS (1) 1 1077305009 -2 SPECIAL NUT 1 10J-0103M -4 PEDAL STOPPER 3 1017960006 -5 STOPPER FELT 3 1247112006 -6 PEDAL 3 4367263023 -7 PEDAL FLANG 6 4367082000 -8 PF. BUSH 6 4367083106 -9 4 × 4 CPS (WITH W. SW) 12 4700021026 -10 PEDAL SWIRCH 3 4127160104 -12 PEDAL SWITCH 3 2127001003 -13 3P PEDAL WIRE 1 2039461003 -14 2 × 10 CPS 3 4711810006 -15 UL TUBE 14mm 3 -16 DAN. PLUG SHEET 1 5137146007 -18 SOS. PLUG SHEET 1 5137148005 -19 3.5 × 10 CBTS (1) 3 4733804003 -20 3.5 × 25 CRWS 6 4720411014 -6 ENVELOPE ASS'Y (1) 5057063008	-17	3.5 × 25 CTTS (1)	15	4734806002	
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-7 PEDAL FLANG 6 4367082000 -8 PF. BUSH 6 4367083106 -9 4 × 4 CPS (WITH W. SW) 12 4700021026 -10 PEDAL SPRING 3 4367148009 -11 PEDAL SW BRACKET 3 4127160104 -12 PEDAL SWITCH 3 2127001003 -13 3P PEDAL WIRE 1 2039461003 -14 2 × 10 CPS 3 4711810006 -15 UL TUBE 14mm 3 -16 DAN. PLUG SHEET 1 5137146007 -17 SOF. PLUG SHEET 1 5137147006 -18 SOS. PLUG SHEET 1 5137148005 -19 3.5 × 10 CBTS (1) 3 4733804003 -20 3.5 × 25 CRWS 6 4720411014 -6 ENVELOPE ASS'Y (1) 5057063008					
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-16     DAN. PLUG SHEET     1     5137146007       -17     SOF. PLUG SHEET     1     5137147006       -18     SOS. PLUG SHEET     1     5137148005       -19     3.5 × 10 CBTS (1)     3     4733804003       -20     3.5 × 25 CRWS     6     4720411014       6     ENVELOPE ASS'Y     (1)     5057063008	-14	2 × 10 CPS	3	4711810006	
-17 SOF. PLUG SHEET 1 5137147006 -18 SOS. PLUG SHEET 1 5137148005 -19 3.5 × 10 CBTS (1) 3 4733804003 -20 3.5 × 25 CRWS 6 4720411014 6 ENVELOPE ASS'Y (1) 5057063008			_		
-18     SOS. PLUG SHEET     1     5137148005       -19     3.5 × 10 CBTS (1)     3     4733804003       -20     3.5 × 25 CRWS     6     4720411014       6     ENVELOPE ASS'Y     (1)     5057063008			+		
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		Lagrande T. J. T. S.			

NI-	Dowt Name	E	P-5500	
No.	Part Name	Q'ty	Part No.	Remarks
-2	6 × 25 CTS	8		
-3	PRESS WING SCREW	4	MMP1142	
7	SIDE BOARD (L) SEMI	(1)	1077466100	
-1	KEY BLOCK (L)	1	1037131103	
-2	3.5 × 16 CTTS (1)	3	4734806071	
-3	JOINT BRACKET (A)	1	4127200103	
-4 -5	HIMELON 3.5 × 10 CBTS (1)	1	1247073006	
-6	RACK (L)	1	4733804003 4357011104	
-7	3.5 × 20 CTTS (1)	3	4734806039	
8	SIDE BOARD (R) SEMI	(1)	1077467109	
-1	KEY BLOCK (R)	1	1037132102	
-2 -3	3.5 × 16 CTTS (1) JOINT BRACKET (A)	3	4734806071	
-4	HIMELON	1	4127200103 1247073006	
-5	3.5 × 10 CBTS (1)	2	4733804003	
-6	RACK (R)	1	4357012103	
-7	3.5 × 20 CTTS (1)	3	4734806039	
9	BOTTOM BOARD ASS'Y	(1)	1077456107	
10 11	REAR HINGE 3.5 × 10 CBTS (1)	4	4017034007	
12	CORD HOLDER	3	4733804087 EP-6214	
13	3.5 × 10 CBTS (1)	3	4733804003	
14	3.5 × 20 CTTS (1)	1	4734806000	•
15	REAR BOARD ASS'Y	(1)	1077458105	
16	HANGER	2	4127208008	
17 18	3.5 × 10 CBTS (1) STAY	3	4733804003 1297010022	
19	3.5 × 10 CBTS (1)	3	4733804003	
_	CORD HOLDER	3	EP-4772	
21	CORD HOLDER	1	EP-6214	
22	3.5 × 10 CBTS (1)	4	4733804003	
23	3.5 × 20 CTTS (1)	7	4734806000	
25	ROOF BOARD ASS'Y PROTECTION FELT	(1)	1077460009 1247146001	
26	BRACKET (A)	2	4127158006	
27	EARTH BRACKET (S)	2	4127180100	
28	3 × 8 CBRTS (1)	12	4730304014	
29	ROOF HINGE	3	4017035103	
31	3 × 10 CBTS (1)  JOINT PLATE	12	4733804006 4127201005	
32	3.5 × 10 CBTS (1)	4	4733804003	
33	MUSIC STOPPER	1	4397035108	
34	3 × 14 CBTS (1)	4		
35	3.5 W	4	4751134001	
36	STAY	1	1297014002	
37 38	3.5 × 10 CBTS (1) SCORE HOLDER ASS'Y	(1)	4733804003 1077464005	
39	LID CUSHION	2	4617026017	
40	SCORE HINGE	2	4017027108	
41	PROTECTION SHEET	2	1247123008	
42	3 × 8 CBTS (1)	4	4733830006	
43 44	3 × 10 CBTS (1) FRONT PANEL	1	4733804006 1027242002	
45	3.5 × 25 CTTS (1)	4	4734804002	
46	4.1 W	4	4751152009	
47	KEY COVER ASS'Y	(1)	1077462308	
-1	KEY COVER	1	1077463006	
-2	BRACKET (A)	3	4127202208	
-3 -4	3 × 6 CBTS (S) BRACKET (B)	6	4737002005 4127203207	
-5	HIMELON SHEET	1	1247142018	
-6	3.5 × 10 CBTS (1)	7	4733804003	
-7	SHAFT	1	4357010105	
-8	GEAR	2	4247001101	
-9 10	3 × 8 CBTS (S)	2	4737002018	
-10 -11	FRONT COVER  3.5 × 10 CBTS (1)	1 12	1027229203 4733804003	
-12	PROTECTER	2	4317005202	

			EP-5500		1			-	EP-5500	
No.	Part Name	Q'ty		Remarks	'	No.	Part Name	Q'ty		Remarks
-13	2.6 × 10 CFTS (1)	4	4732205027		l '	105	EDGING 45mm	1		
-14		2	1247144003		'	106	MAIN PCB UNIT	1	BP-421-2	
48	TOP PANEL SEMI ASS'Y	(1)	1027231408		'	107	EFFECT PCB UNIT	1	BP-422-1	
-1 -2	KEN OSAE FELT SPEAKER HIMELON	1 2	1247095068 1227032009		'	108	PŌWER PCB UNIT PANEL BOARD UNIT	1	BP-419-1 BP-420-3	
49	UNDER BOARD	1	1077491007		$ \Lambda $	110	L/FILTER BOARD UNIT	1	BP-393-2	U.S.A.,Canada
50	FRONT GUIDE RAIL ASS'Y	(1)	4307073639		$\Delta$	110	L/FILTER BOARD UNIT	1	BP-393-3	Asia,Europe U.K.
-1	FRONT GUIDE RAIL	1	4367237211		$\overline{\Lambda}$	111	POWER SWITCH	1	2128590018	
-2	FRONT RAIL FELT	1	1247109006			112	PUSH BUTTON	1	1137015048	
-3	FRONT RAIL FELT	1	1247110008		$ \Lambda$	113	SW CONNECTOR ASS'Y	1	2033512055	
-4	FRONT RAIL FELT	1	1247111007		1 '	114	3 × 6 CBTS (S)	2	4737002034	
-5		1	1247070038		1 '	115	EARTH WIRE ASS'Y	1	2097038025	
-6		88	4317002001		1 '	116	BLIND SHEET	1	1227029135	
51 52	3.5 × 14 CBTS (1) (SW) CENTER RAIL	50 6	4718003007 4367179104		1 '	117	BLIND SHEET	1	1227029164	
53	CENTER RAIL (S)	1	4367317005		1 '	118	BLIND SHEET  VOLUME PANEL	3	1227029177 1037092116	
54	BACK RAIL ASS'Y	(1)	1007129116		1 '	120	BLIND SHEET	3	1227027108	
-1	BACK RAIL	1	1017315017		1 '	121	SWITCH BUTTON	1	1137030117	
-2		1	1247087018		1 '	122	SWITCH BUTTON (S)	2	1137032021	
-3	BACK RAIL FELT	1	1247087034		1 '	123	SWITCH BUTTON (S)	1	1137032034	
55	KEY ASS'Y (W) A	5	4367343008		1 '	124	3 × 6 CBTS (S)	20	4737002034	
56	KEY ASS'Y (W) A	2	4367344007		1 '	125	SLIDE VOLUME KNOB	3	1137031116	
57	KEY ASS'Y (W) B	6	4367343011		1 '	126	SLIDE SW. KNOB	1	1137033101	
58	KEY ASS'Y (W) B	2	4337344010		1 '	127	PT-01M (CONE TWEETER)	2	3017023006	
59	KEY ASS'Y (W) C	6	4367343024	<u> </u>	1	128	3 NUT-W	4	SC-1082-2	
60	KEY ASS'Y (W) C	1	4367344023	· · · · · · · · · · · · · · · · · · ·	1 '	129	CORD HOLDER	2	EP-4772	
61	KEY ASS'Y (W) D	6	4367343037	<u> </u>	<b>(</b> '	130	3.5 × 20 CTTS (1)	2	4734806039	
62	KEY ASS'Y (W) D	1	4367344036	<del></del>	<b>l</b> '	131	PANEL SUPPORT	1	4127204002	<u> </u>
63	KEY ASS'Y (W) E	6	4367343040	<del> </del>	'	132	3.5 × 12 CBRTS (2)	1	4730800013	-
64 65	KEY ASS'Y (W) E	6	4367344049 4367343053	<del> </del>	'	133	LID CUSHION	1	1247124007	-
66	KEY ASS'Y (W) F KEY ASS'Y (W) F	1	4367344052	<del></del>	1	134	3 × 6 CBTS (S) 5P CONNECTOR ASS'Y	1	4737002034 2039460017	<del> </del>
67	KEY ASS'Y (W) G	6	4367344052	<u> </u>	$\Delta$	136	POWER TRANS	1	2338539005	U.S.A.,Canada
68	KEY ASS'Y (W) G	1	4367344065		$\stackrel{\triangle}{\mathbb{A}}$	136	POWER TRANS	1	2338542005	Asia Asia
69	KEY ASS'Y (W) A'	1	4367343079		$\stackrel{\perp}{\mathbb{A}}$	136	POWER TRANS	1	2338544003	Europe
70	KEY ASS'Y (W) C'	1	4367344078		$\Delta$	136	POWER TRANS	1	2338541006	U.K.
71	KEY ASS'Y (B) A#	1	4367344052		_	137	4 × 14 CTS	4	4714408020	
72	HAMMER (H)	81	4367339009			138	3 × 6 CBTS (S)	16	4737002034	
73	HAMMER (L)	7	4367340001			139	SHIELD CASE	1	4147026008	
74	KEY STOPPER	7	4367341107			140	EDGING 630mm	1		
75		6	1297010035		1	141	3 × 8 CBRTS (1)	12	4730301014	
-	3.5 × 12 CBRTS (2)	28	4730800013	<u> </u>		142	CONNECTOR PLATE	1	4127205108	
77		7	4127126009	<del> </del>			CONNECTOR BRACKET	1	4127206000	
78		14	4718003007	<u> </u>	'	144		2	4737002021	
79		5	4367342009	<del> </del>	1	145		2	4733814006	<del> </del>
80		5	1247141103 4127126009	<del> </del>	'		AUX PANEL (BLACK COATING)  AUX PANEL (VINYL CHLORIDE STEEL PLATE)	1	1027193012	-
82		4	4718003007	<u> </u>		147	3 × 8 CBTS (S)	6	1027252005 4737002021	<del>                                     </del>
-	4 × 6 CTTS (S)	14	4738003007			148		6	4770210003	<del> </del>
		3	4127130008		1	149		8	4733814006	
85		6	4718003007		1	150	LED ASS'Y	1	3937019006	
	CUSHION RAIL	1	4367254100			151	LED BUSHING	1	4430310007	
87	CUSHION RAIL FELT	1	1247094014		$\Delta$	152	AC CORD WITH PLUG	1	2062021009	U.S.A.,Canada
88	4 × 6 CTTS (S)	6	4738003003		$\overline{\Lambda}$	152	AC CORD WITH PLUG	1	2062002031	Asia,Europe
89	SWITCH BOARD I UNIT	1	BP-343		$\Lambda$	152	AC CORD WITH PLUG	1	2007057009	U.K.
90	SWITCH BOARD II UNIT	1	BP-339		$\Delta$	153	BUSHING	1	4450047004	U.S.A.,Canada Asia,Europe
91	SWITCH BOARD III UNIT	1	BP-344	<u> </u>	1	154	BUSHING PLATE	1	4127133005	U.S.A.,Canada Asia,Europe
	SWITCH BOARD IV UNIT	1	BP-341	<b></b> '	1	154		2	4127223009	U.K.
-	SWITCH BASE	1	4117092211	<u> </u>	1		3 × 10 CBTS (1)	2	4733814006	
94		30	4497023010	<u> </u>			SPEAKER WIRE ASS'Y	1	2045058206	
	3 × 10 CBRTS (S)	14	4737005002			157	JACK BRACKET	2	4127138000	
96		4	4127144104	<u> </u>	1	158		1	4127185008	<u> </u>
9/	3.5 × 14 CBTS (1) (SW)	8	4718003007		1	10000000	H/J BRACKET	1	4127207106	-
00	COLLAR	4	4497023010	<del> </del>		160	SNAP PLATE SWITCH COVER	2	445700800E	
-	12 0 16 COOTE (C)		4737005031	<b></b>	$\Delta$			1	4157006005 4127199007	Asia
99	3 × 16 CBRTS (S) 8 KEY BURBER SWITCH	11	2128582107	•	•	1167				Asia
99 100	8 KEY RUBBER SWITCH	11	2128582107		1	*****************	SWITCH PLATE VOLTAGE SELECTOR SW			-
99 100 101	8 KEY RUBBER SWITCH 1 KEY RUBBER SWITCH	1	2128584105		$\Phi$	163	VOLTAGE SELECTOR SW.	1	2122001008	Asia
99 100 101 102	8 KEY RUBBER SWITCH				lack	163 164				+

#### **WARNING:**

Parts marked with  $\triangle$  this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacturer. DO NOT return the unit to the customer until the problem is located and corrected.

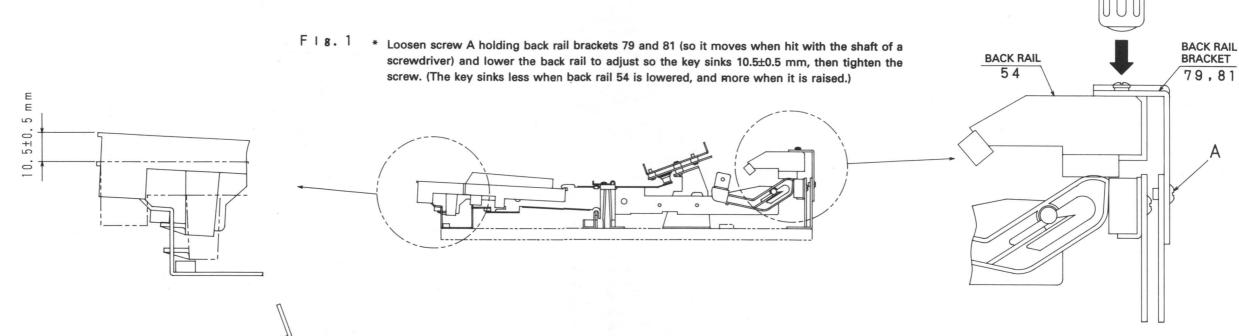


Fig. 2

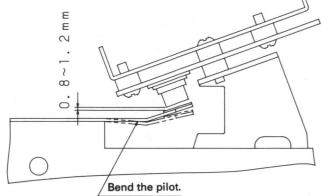
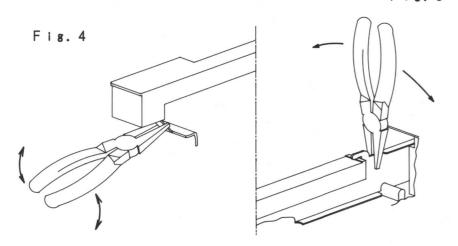


Fig. 3



#### Causes of defects and how to repair and adjust

1. Key does not return or it returns incorrectly.

a) The key arm is in contact with the switch base bracket. \_\_\_

b) No grease on key guide.

c) No grease at center rail. \_ d) Hammer does not turn smoothly

(no grease on shaft or engaged incorrectly).

2. Key noise

a) No grease between center rail and key arm.

b) The key arm is in contact with the switch base bracket.

c) The center rail and key arm pivot lift (when the key pressed hits against the key cushion first).

d) Keys are in contact with each other. \_

3. Adjustments

The following adjustments can be done with this model.

a) Key tilt adjustment (Fig. 3)

b) Key row adjustment (left/right) (Fig. 4)

c) Key sink adjustment (amount of sink) (Fig. 1)

d) Adjustment of gap between rubber switch and actuator (Fig. 2)

Bend the key arm so they do not touch each other. Coat with grease (Moly coat EM-50L \*Milky white)

Coat with grease (Plastilube EP \*Brown) Coat with grease (Moly coat EM-50L \*Milky white)

\* Replace the hammer if it is engaged incorrectly.

Coat with grease (Plastilube EP \*Brown)

Bend the key arm so they do not touch each other.

The key sink adjustment is faulty. (Refer to key sink adjustment)

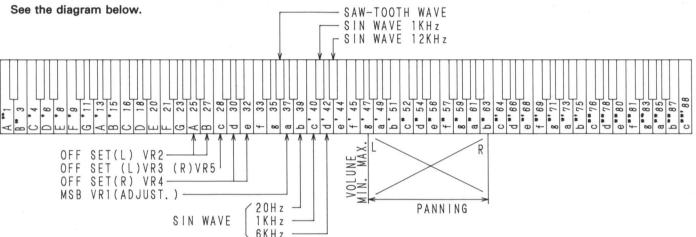
Adjust the tilt of keys. (Refer to key tilt adjustment.)

#### **TEST MODE AND ADJUSTMENT**

#### **BP-421 MAIN PCB**

#### **Test Mode**

- (1) How to set to the test mode:
  - Press the BASS button and hold it, then set the POWER switch to ON. Only the PIANO 1 indicator lights.
- (2) How to clear the test mode:
  - Press the timbre select button once or set the POWER switch to OFF and then ON again.
- (3) Details of test mode
  - **OFFSET** adjustment
  - MSB adjustment
  - Sine-wave outputs (20Hz, 1kHz, 6kHz, 12kHz)
  - Sine-wave outputs (higher than the above at 1kHz)
  - Panning
- (4) Relationship between test mode and keyboard



#### Adjustment

- (1) Test equipment necessary for adjustment Millivoltmeter
- (2) Before starting

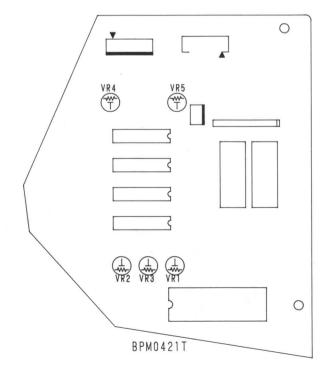
Warm up for 5 minutes and set to the test mode before starting adjustment.

- (3) Adjustment point locations
  - See the diagram on the right.
- (4) Order of adjustments

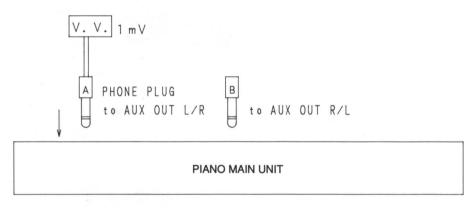
1	Warm up	М	ore than 5 minutes
2	Test mode		8
3	MSB adjustment		VR1
4	OFFSET adjustment	1	VR5 (R Side)
		2	VR4 (R Side)
		3	VR3 (L Side)
		4	VR2 (L Side)

(5) Settings of VRs on panel

Name of VR	VOLUME	BRILLIANCE
Setting	MAX.	BRIGHT



#### (6) How to connect



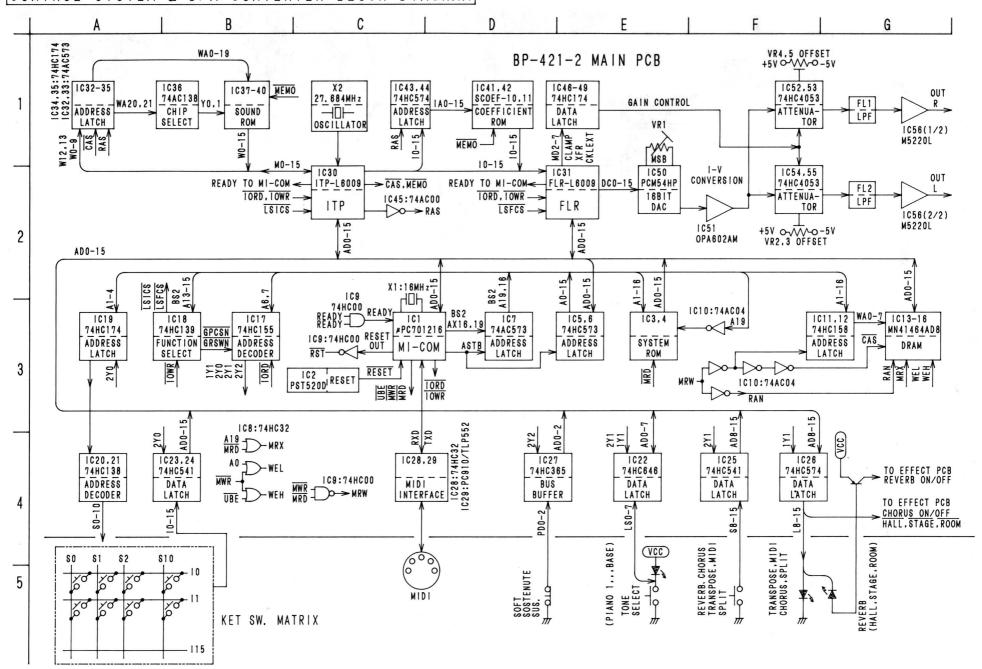
#### (7) Adjustment procedure

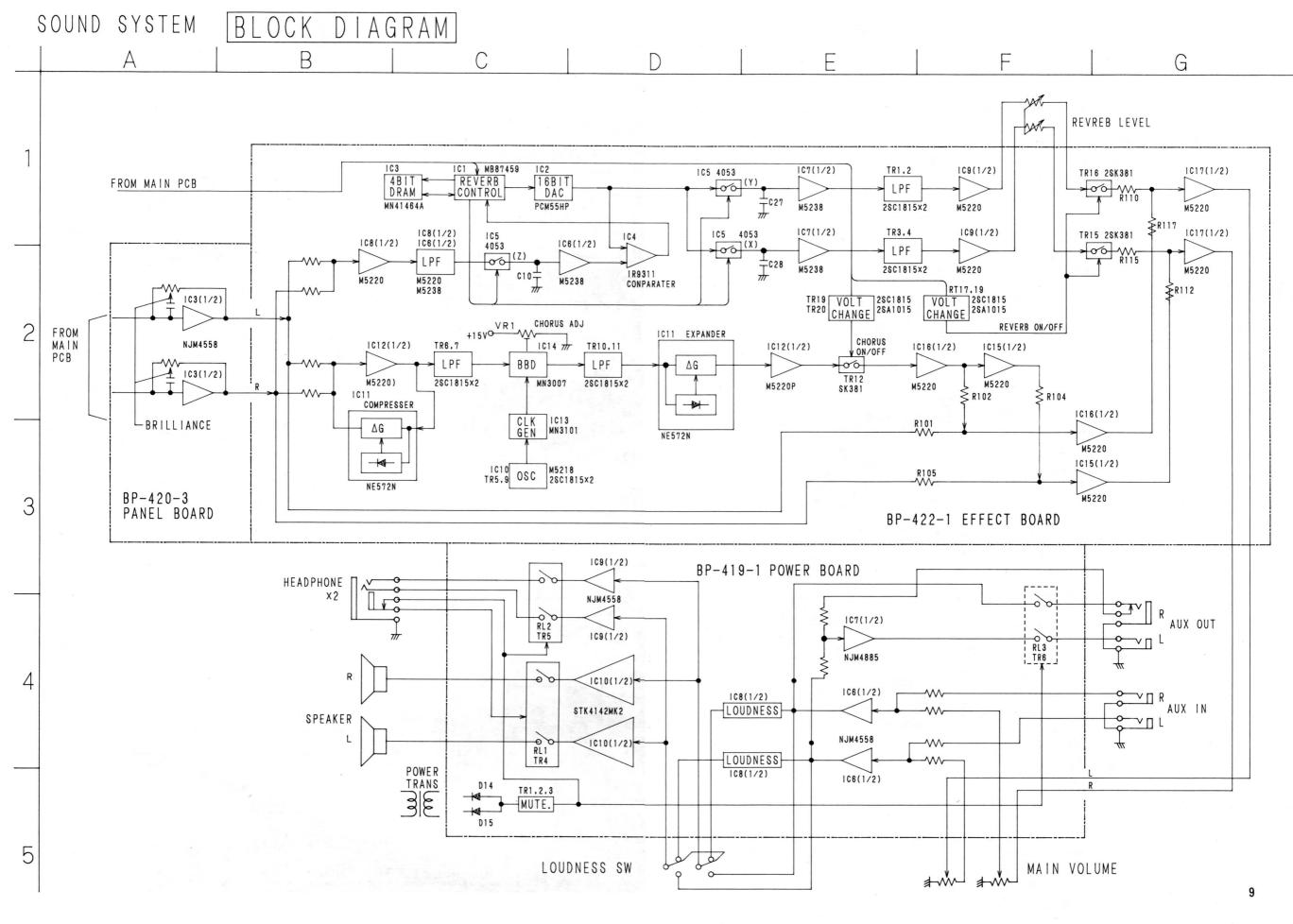
Adjust the VRs so the millivoltmeter reading is minimum.

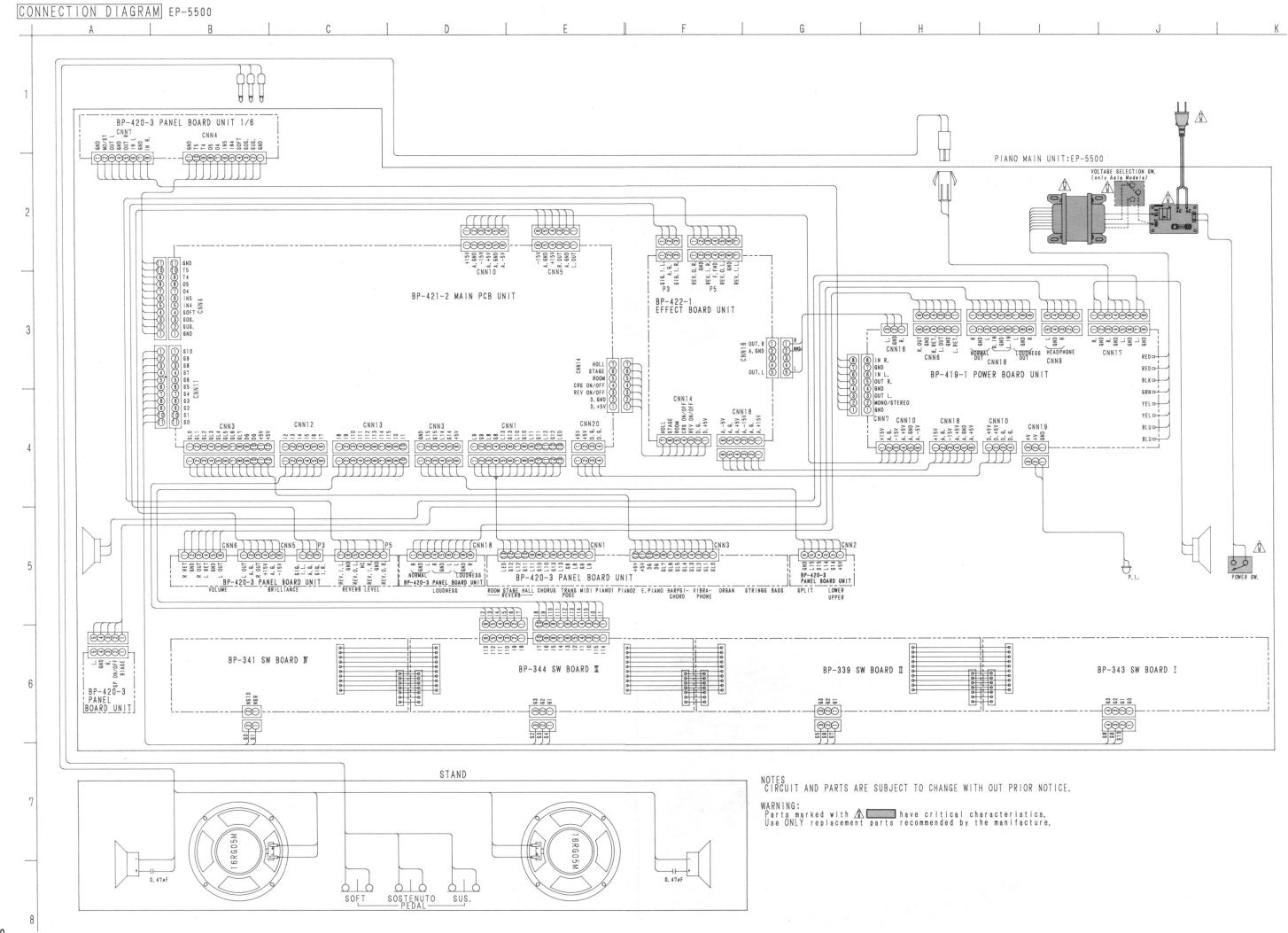
	VR No.	Plug positions (AUX OUT)		No. of keys	Operation	
		Α	В			
1	VR1	R	L	37 (A)	Set A to ON.	
2	VR5	R	L	28 (C)	Set C to ON repeatedly.	
3	VR4	R	L	30, 32 (D, E)	Set D and E to ON alternately and repeatedly.	
4	VR3	L	R	28 (C)	Set C to ON repeatedly.	
5	VR2	L	R	25, 27 (A, B)	B) Set A and B to ON alternately and repeatedly.	

Note: For item 1 adjust to the volume is minimum when listening.

#### **BLOCK DIAGRAM** D В Α BLOCK DIAGRAM SYSTEM KEY SWITCH & BOARDS TONE LPF AMP MEMORY CONTROL INTERPOLATION DCF/DCA D/A CONVERTER PEDALS BRILLIANCE FLR DAC ITP MI-COM MIDI TONE LPF ATT PANEL BOARD BUTTON/LEDRD SOUND AMP MEMORY POWER 3 AMP LOUDNESS LOUDNESS SPEAKER VOLUME POWER LOUDNESS AMP HEADPHON 4 AMP CHORUS HEADPHON DIGITAL REVERB AMP Reverb level







## PARTS LIST Printed Circuit Board: EP-5500

#### BP-421-2 MAIN PCB

Ref. No.	Part No.	Part Name	Remarks
IC1	2621535004	#PD70216GF-8-3B8	
102	2630803002	PST520D-2	
103	2621726075	27C512-5500-3.0-L	
1C4	2621727074	27C512-5500-3.0-M	
105.6	2621313006	TC74HC573AP	
107,32,33	2621538001	CD74AC573E	
108,28	2621321001	TC74HC32AP	
109	2621318001	TC74HC00AP	
IC10	2621542000	HD74AC04P	
IC11,12	2621552003	HD74AC158P	
IC13-16	2621551004	MN4164A-08	
IC17	2621544008	TC74HC155AP	
IC18	2621159008	TC74HC139AP	
IC19,34.	2621543002	TC74HC174AP	
35,46-49			
1020,21	2621160000	TC74HC138AP	
1022	2621077009	TC74HC646AP	
1023-25	2621315004	TC74HC541AP	
1026,43,44	2621314005	TC74HC574AP	
1027	2621553002	TC74HC365AP	
1029	3939330000	TLP552/PC910	
1030	2621536003	ITP-L6009	
IC31	2621537002	FLR-L6009	
IC36	2621592005	TC74AC138P	
1037	2621730003	LH538K13 AWV-100-3	
1038	2621731002	LH538K14 AWV-100-4	
1039	2621728002	LH538K11 AWV-100-1	
IC40	2621729001	LH538K12 AWV-100-2	
IC41	2621545007	SCOEF10-512 9743-081	
1042	2621546006	SCOEF11-512 9743-081	
IC45	2621541001	HD74ACOOP	
1050	2620672007	PCM54HP	
1051	2630804001	OPA602AM	
1052-55	2621550005	CD74HC4053E	
1056	2630226003	M5220L	
FL1.2	2610123003	LP YC258BLR-5589N	
R20,21	2412315035	RD1482E3306FRF	330
R38-41	2412371011	RD14B2E150GFRF	150
X1		HC-49/U-S 16.000MHz	
X2	3997002008	COX-042C 27.684MHz	
RA1-3	2462045038	RK99=1H103JP8	10K0×8
RA4	2462085001	RK99=1H103JP3	10K0×3
VR1	2116089010	K07PB105	B−1MK □
VR2-5	2116089007	K07PB502	B−5K Ω
			L

#### BP-422-1 EFFECT BOARD

D N -	Dana Nama	D
		Remarks
2760432000	18827UA	
2760460001	U7050 1	
S		
2730198028	2801815(GR)	
0.0000000000000000000000000000000000000	00400148.53	
and the second second second	A STATE OF THE STA	
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	A PART CARE	
2630806009	IR9311	
2621562006	TC74HC4053AP	
2630679000	M5238P	
2630317006	M5220P	
2630711000	M5218AP	
2630807008	NE572N	
2620212001	MN3101	
2630152009	MN3007	
3997002024	HC-49/U-S 20.000MHz	
2412371011	RD14B2E150GFRF	150
2462077006	RK99=1H104JP4	100K0×4
2116056072	V06PB203	B-20K0
2350023007	BL02RN2-R62	
2350090001	SBT-0240	
	2760432000 2760460001 2730198028 2750048006 2730415002 2710102021 2631486001 2621561007 2621551004 2630806009 2621562006 2630679000 2630317006 2630807008 262012001 2630152009 3997002024 2412371011 2462077006 2116056072	Part No. Part Name 2760432000 1SS270A  2760460001 HZS5C-1 2730198028 2SC1815(GR)  2750048006 2CK381(D/E) 2730415002 2SC3330T 2710102021 2SA1015(GR)  2631486001 MB87459PF-001 2621561007 PCM55HP 2621551004 MN41464A-08 1R9311 TC74HC4053AP 2630806009 M5238P 2630317006 M5238P 2630317006 M5220P  2630711000 M5218AP 2630807008 NE572N 2620212001 MN3101 2630152009 MN3007 3997002024 HC-49/U-S 20.000MHz 2412371011 RD14B2E150GFRF 2462077006 RK99=1H104JP4 2116056072 V06PB203 2350023007 BL02RN2-R62

#### BP-420-3 PANEL BOARD

01 720 0	TANLL DO	7110	
Ref. No.	Part No.	Part Name	Remarks
103	2630081002	NJM4558D	
SW1-16	2124388004	TACT SWITCH	
SSW1	2128600005	SLIDE SWITCH	
LD1-16	3939490005	LN221RP	
VR1,3	2117050006	J3020VBB103	B-10K₽
VR2	2117050019	J3020VBB503	B-50K₽
L1-12	2350050009	BEAD INDUCTOR	
R29-32	2412314007	RD14B2E101JNBF	1000
MIDI	2049431007	DIN SOCKET	
AUX IN	2049437001	PHONE JACK	
AUX OUT	2049436002	PHONE JACK	
PEDAL	2049444007	PHONE JACK	
HEADPHONE	2049443008	PHONE JACK	

#### FP-419-1 POWER BOARD

	EP-419-1	POWER BO	ARD	
	Ref. No.	Part No.	Part Name	Remarks
	1C1.	2360053006	NJM7805FA	
	102	2630561001	NJM7915FA	
	103	2630560002	NJM7815FA	
	1C4	2630567005	NJM78M05FA	
	105	2630501003	NJM79M05FA	
	106-8	2630405002	NJM4558S	
	109	2630485006	NJM4556S	
	IC10	2650074002	STK4142MK2	
$\Lambda$	D1	2780505005	DBA208	
	D2.3.5-12	2760432000	188270A	
	14-19			
	D4	2760504006	DBA10C	
$\Lambda$	D13	2780804003	DBABOC	
	ZD1	2760468003	HZ\$9B-(1)	
	TR1,4-6	2730198028	2SC1815(GR)	
	TR2.3	2710102021	2SA1015(GR)	
	RL1	2140146000	G6B2214P-US DC12V	
	RL2.3	2140148008	G5A-234P DA12	
$\Lambda$	F1.2	2061039092	FUSE 4A 125V	U. S. A Canada
	F1.2	2081015087	FUSE 4A 125V	Europe, U. K.
$\Lambda$	F1.2	2061035070	FUSE 4A 125V	Asia
$\Lambda$	F3.4	2061039021	FUSE 500mA 125V	U. S. A Canada
$\Lambda$	F3,4	2061015003	FUSE 500 mA 250V	Europe. U. K.
	F3.4	2061035083	FUSE 630mA 125V	Asia
	F5	2061039034	FUSE 1A 125V	U. S. A Canada
	F5	2061015029	FUSE 1A 250V	Europe, U. K.
	F5	2061053007	FUSE 1A 125V	Asia
	R69.78	2412314007	RD1482E101JNBF	1000
$\Lambda$	R76.77	2452381003	RN14B3D4R7JNBF	4. 70
$\Lambda$	R80	2412321029	RD14B2E152JNBF	1.5K0
Æ	R92	2412314081	RD14B2E561JNBF	5600
Â	R95.98	2412321087	RD14B2E121JNBF	1200
$\Lambda$	R105,106	2412314049	RD14B2E100JNBF	100
	L1-5	2350050009	BEAD INDUCTOR	

#### BP-344,339,343 KEY SWITCH BOARD

Ref. No.	Part No.	Part Name	Remarks
D1-48	2760049008	182706	
	2128582107	8KEY RUBBER SWITCH	

#### BP-341 KEY SWITCH BOARDN

Ref. No.	Part No.	Part Name	Remarks
D1-34	2760049008	182706	
	2128582107	8 KEY RUBBER SWITCH	
	2128584105	1 KEY RUBBER SWITCH	

#### WARNING:

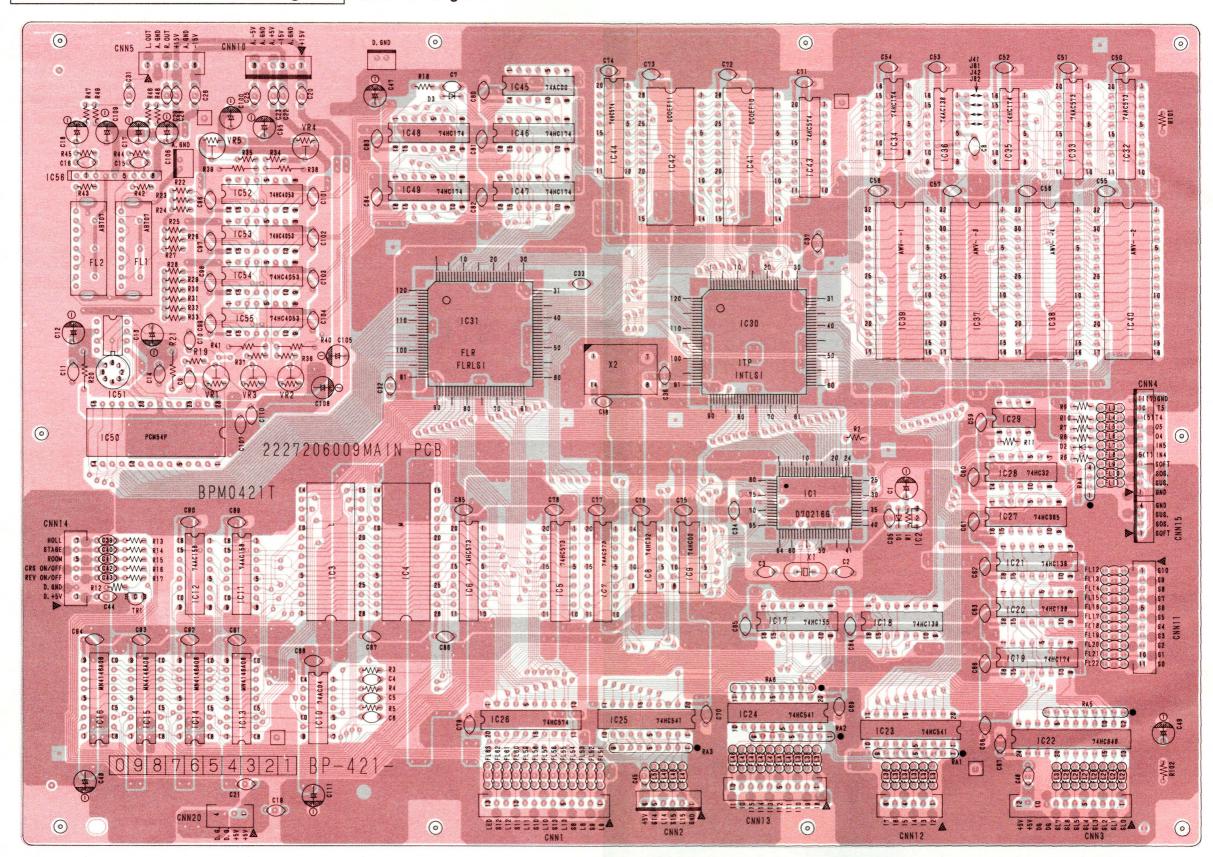
Parts marked with A havecritical characteristics.
Use ONLY replacement parts recommended by the manifacture.

#### BP-393-2 L/FILTER BOARD(U.S.A./Canada)

Ref. No.	Part No.	Part Name	Remarks
Λ F	2061056004	FUSE 2A 125V	
7	2397001008	LINE FILTER	
C1.2	2538012005	GK45F2GAC222M	
∑ c3	2538015002	CK45F2GAC103P	
SW	2033518004	2P CONNECTOR BASE	

#### BP-393-3 L/FILTER BOARD(Europe, U.K., Asia)

Ref. No.	Part No.	Part Name	Remarks
î F	2061015061	FUSE 2A 250V	
Ú	2020014003	FUSE CLIP	
7	2397001008	LINE FILTER	
C1.2	2538012005	CK45F2GAC222M	
/ c3	2538015002	CK45F2GAC103P	
î\ sw	2033518004	2P CONNECTOR BASE	



CNN2(to PANEL B.: SPLIT) CNN1(to PANEL B.) 13P-XH

D6 L15 815 L14 L14 +5V

CNN12(to KEY UNIT) CNN13(to KEY UNIT) 10P-XH

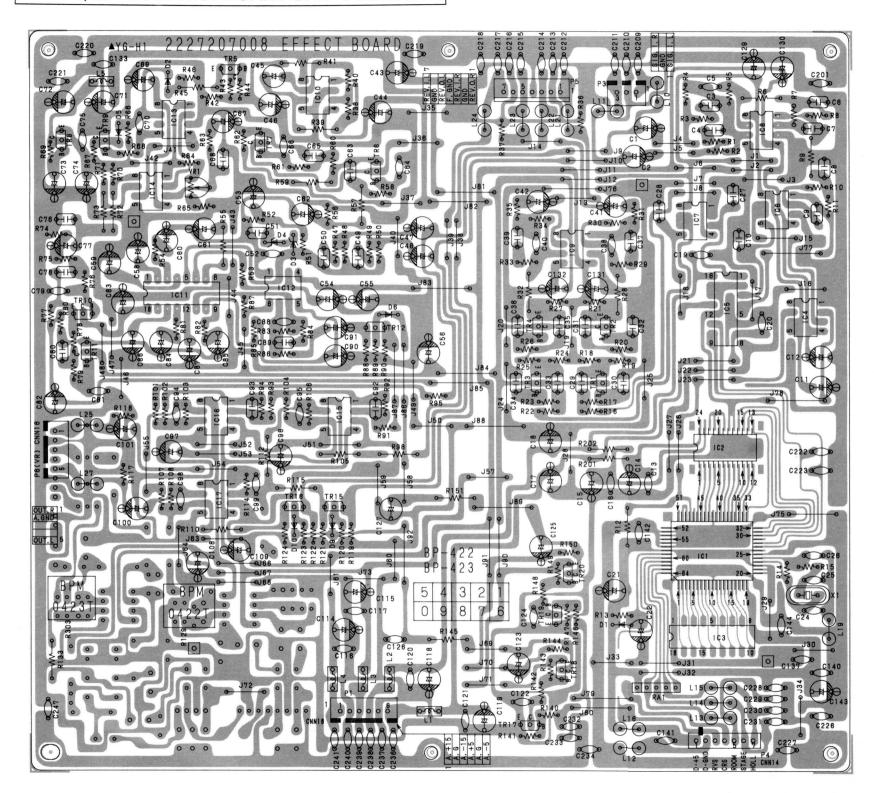
CNN3(to PANEL B.: TONE SELECT) 12P-XH

13

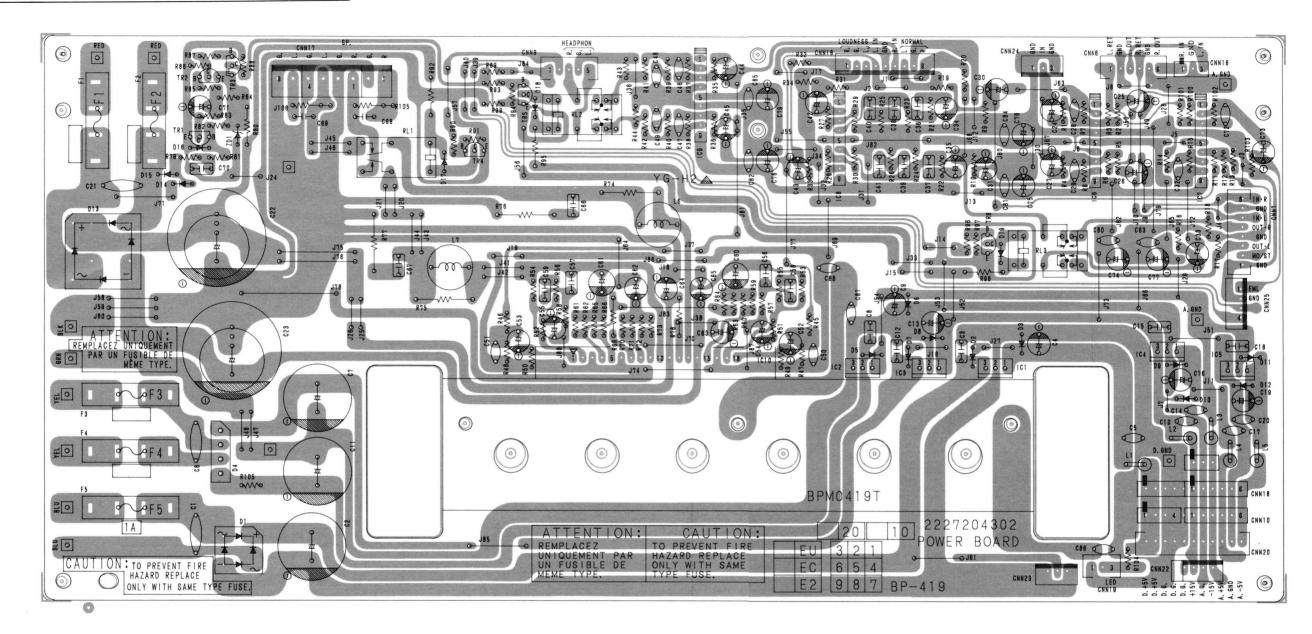
ALL RESISTANCE VALUES IN OHM K=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE IN \( \mu = \mu | \text{ICRO FARAD } \) p=MICRO-MICRO FARAD
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

Parts marked with The have critical characteristics.

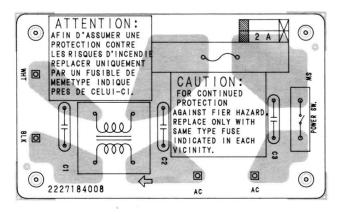
Use ONLY replacement parts recommended by the manifacture.



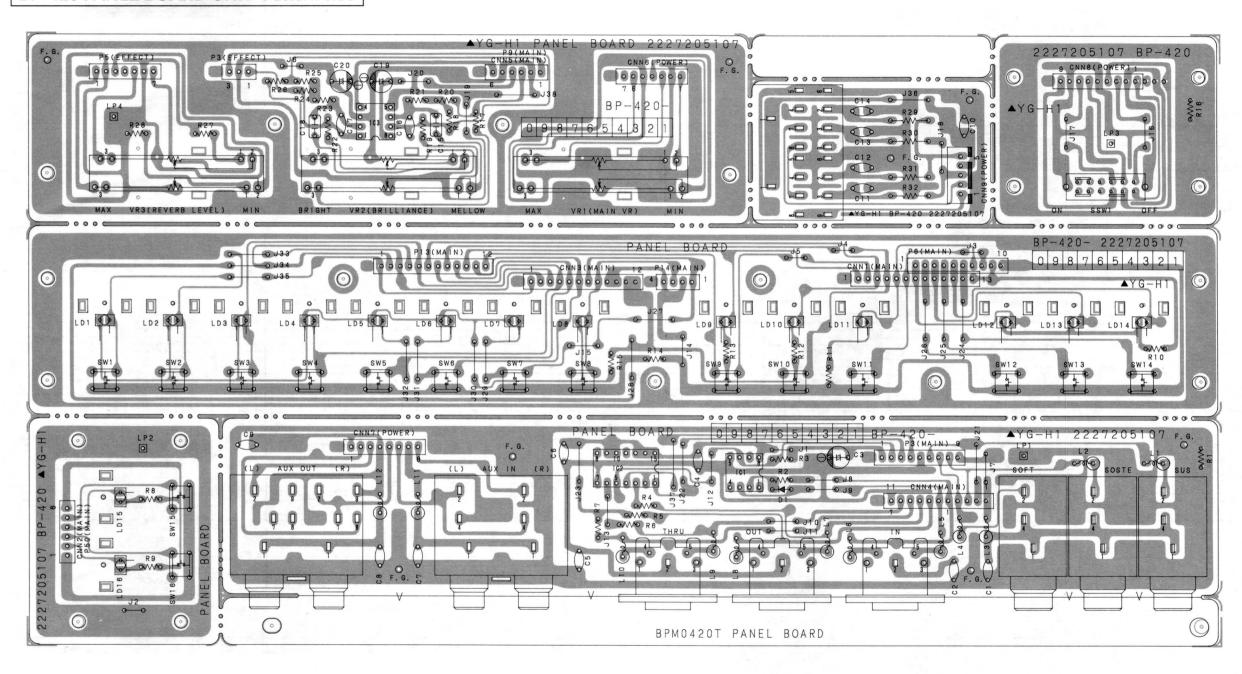
#### **BP-419 POWER BOARD UNIT Pattern side**

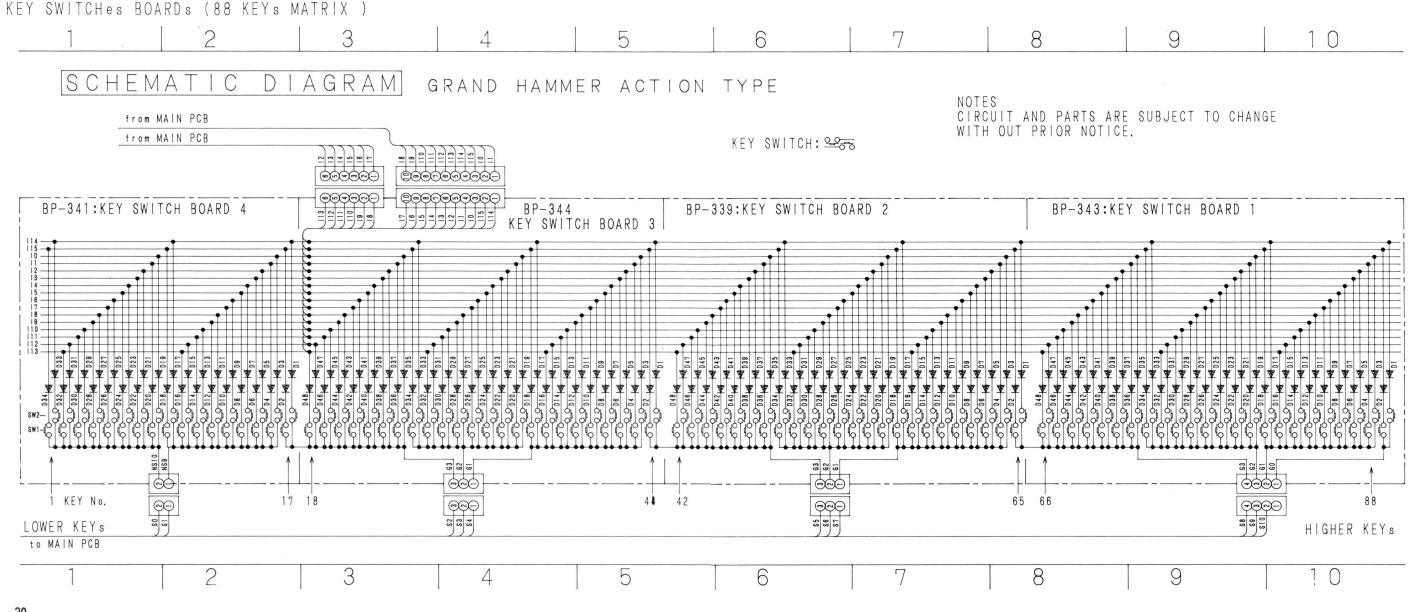


#### BP-393 L/FILTER BOARD Pattern side

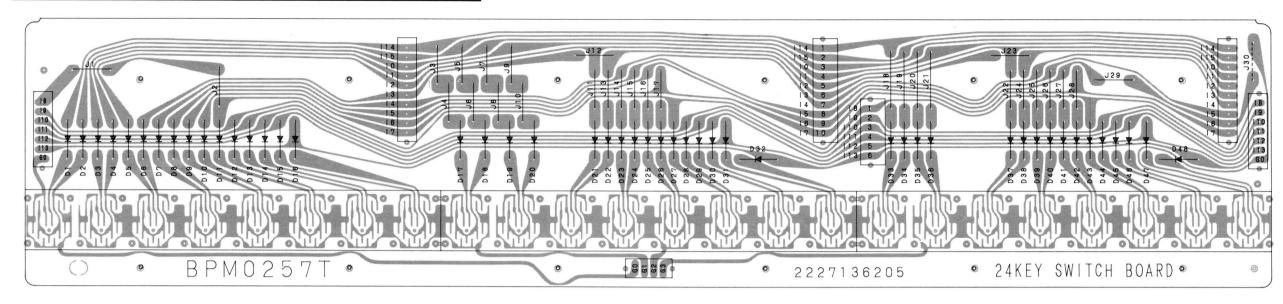


#### **BP-420 PANEL BOARD UNIT Pattern side**

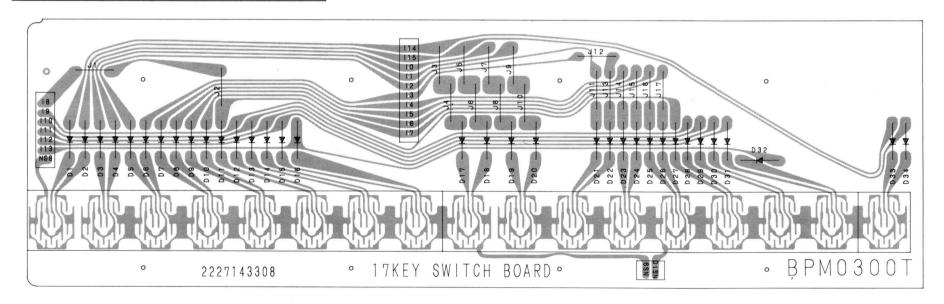




#### BP-344, BP-339, BP-343 SWITCH BOARD Soldering side



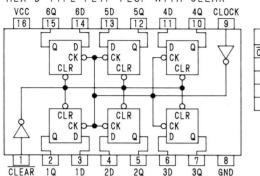
#### **BP-341 SW BOARD IV Soldering side**



#### **SEMICONDUCTORS**



HEX D-TYPE FLIP FLOP WITH CLEAR

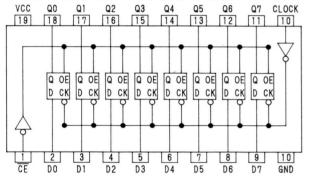


	FUNCT	ION	TABLE	
	INPUT		OUTPUT	FILLIOTION
CLEAR	D	CLOCK	Q	FUNCTION
L	X	X	L	CLEAR
Н	L		L	
Н	Н		Н	
Н	X	_V_	Qo	NO CHANGE
	X:Don'	t care		

	-UNC I	ION	TABLE		
INPUT			OUTPUT	FILLETTON	
CLEAR	D	CLOCK	Q	FUNCTION	
L	Χ	X	L	CLEAR	
Н	L		L		
Н	Н		Н	_	
Н	Χ	¬v_	Qo	NO CHANGE	
	X:Don'	t care			

74HC574

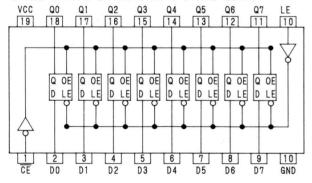
OCTAL D-TYPE FLIP FLOP WITH 3-STAGE OUTPUT

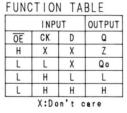


FUNC	1101	I I A	RLF	
	INPL	JT	OUTPUT	
ŌE	CK	D	Q	
Н	Χ	Χ	Z	
L	_ <b>V</b> _	X	Qo	
L		L	L	
L		Н	Н	
X:Don't care				
Z:HIGH-IMPEDANCE				
	Qo:N	O CHA	NGE	

74HC573:74AC573

OCTAL D-TYPE LATCH WITH 3-STAGE OUTPUT





INPUT

LL

LL

G1 G2 An

H X X

X H X

L

Н

X:Don't care Z:HIGH-IMPEDANCE

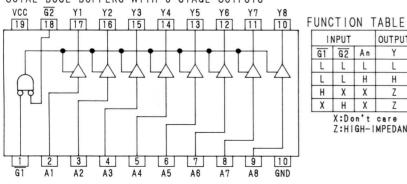
OUTPUT

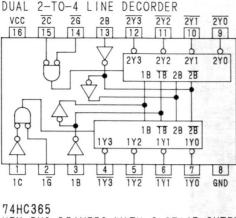
Υ

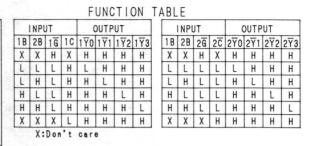
Н

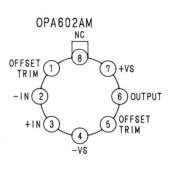
74HC541

OCTAL BUSE BUFFERS WITH 3-STAGE OUTPUTS



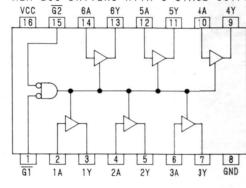


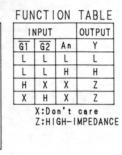




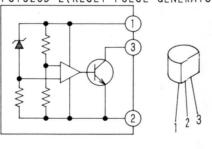
74HC155

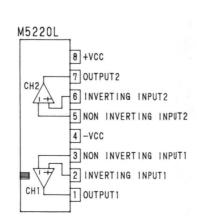
HEX BUS DRIVERS WITH 3-STAGE OUTPUTS





PST520D-2(RESET PULSE GENERATOR)

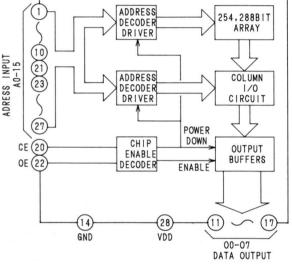


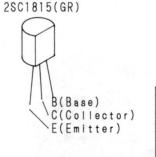


ADDRESS DECODER DRIVER (10)(21)

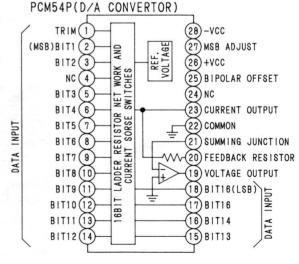
(512K BIT C-MOS MASK PROGRAMMABLE ROM)

SCOEF10-512/SCOEF11-512





2SA1015(GR)



#### **SEMICONDUCTORS**

