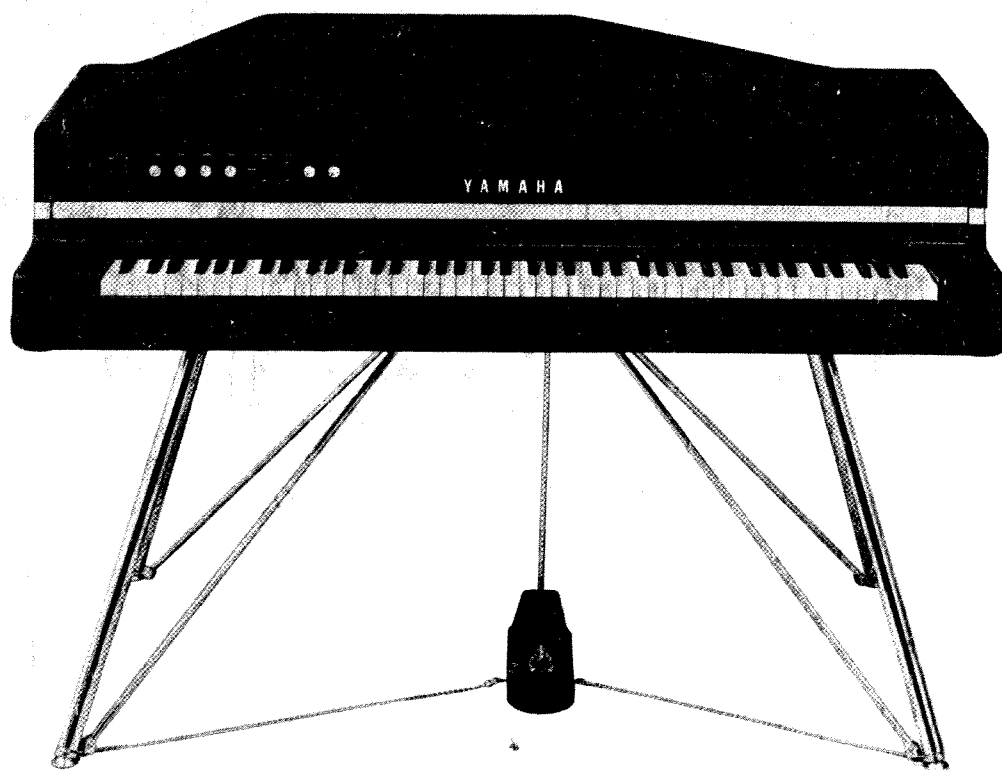




YAMAHA

ELECTRIC GRAND

CP-80



SERVICE MANUAL

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● GENERAL SPECIFICATIONS 仕様

- | | | |
|--|---|--|
| <p>1. Keys 88 Keys $\frac{1}{4}$ (A₂ ~ C₅)</p> <p>2. Actions . . . GP action</p> <p>3. Hammers . . Rubber (urethane) + artificial leather</p> <p>4. Pickups . . . Piezo-electric elements 88 nos. Independent pickup system</p> <p>5. Controls . . . Volume control
Tone control
BASS, MIDDLE, TREBLE
Brilliance level
HIGH, MEDIUM, LOW
Tremolo effect
TREMOLLO Switch (ON/OFF)
SPEED $0.8 \pm 0.5 \sim 10 \pm 1$ Hz
continuously variable
DEPTH more than 40% max,
less than 15% min.</p> <p>6. Pedal Damper pedal</p> | <p>7. Others PATCH OUT
-20 dBm 600Ω Unbalanced
PATCH IN
-20 dBm 100kΩ Unbalanced
Power SW
Pilot lamp
Line out (2 nos.)
-20 dBm 600Ω Balanced
Jack out (2 nos.)
-20 dBm 600Ω Unbalanced</p> <p>8. Rated power consumption . . . US, CANADIAN
AC120V 60Hz 5W (GA50063)
AUSTRALIAN, S. AFRICAN
AC220V 50Hz 6VA (GA50065)
EUROPEAN
AC220V 50Hz 6VA (GA50066)
GENERAL
AC220 ~ 240V
50Hz 6VA (GA50069)
60Hz 5.5VA (GA50069)</p> | <p>12. Outer covering . . . Suitcase style (separable to upper and lower parts)
Upper body Leather lined
(1460 x 1006 x 173)
(mainly cord, damper and electrical system)
Lower body Leather lined
(1460 x 656 x 248)
(mainly action, key board)
(Lower body and top lid case can accommodate legs, stay and pedal)</p> <p>13. Outer dimensions . . Overall width 1460 mm
Overall depth 1150 mm
Overall height 947 mm
Gross weight
As musical instrument, 121 kg
(upper body 76 kg, lower body 66 kg)
(in case of the AC adaptor in use).</p> |
|--|---|--|

Specifications subject to change without notice.

● CODING GUIDE サービスマニュアルを読む前に

1. IDENTIFICATION OF SIGNAL SYSTEM IN THE CIRCUITS SIGNAL

Signal



DC Control voltage



Jamper

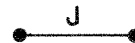
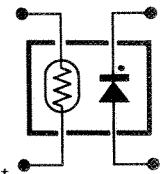
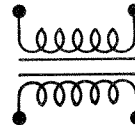


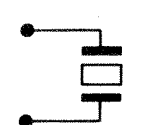
Photo Coupler



Trans Former



Piezo Electric Element



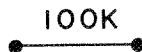
2. IDENTIFICATION OF CIRCUIT BOARD PATTERN DRAWING AND WIRING

1. Circuit board pattern drawings are wholly viewed from parts side.
2. Parts identification on circuit board pattern drawing.

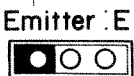
Transistor



Resistor



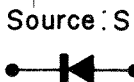
FET



Variable Resistor



Diode



Semi Fixed Type



Zener Diode



Capacitor



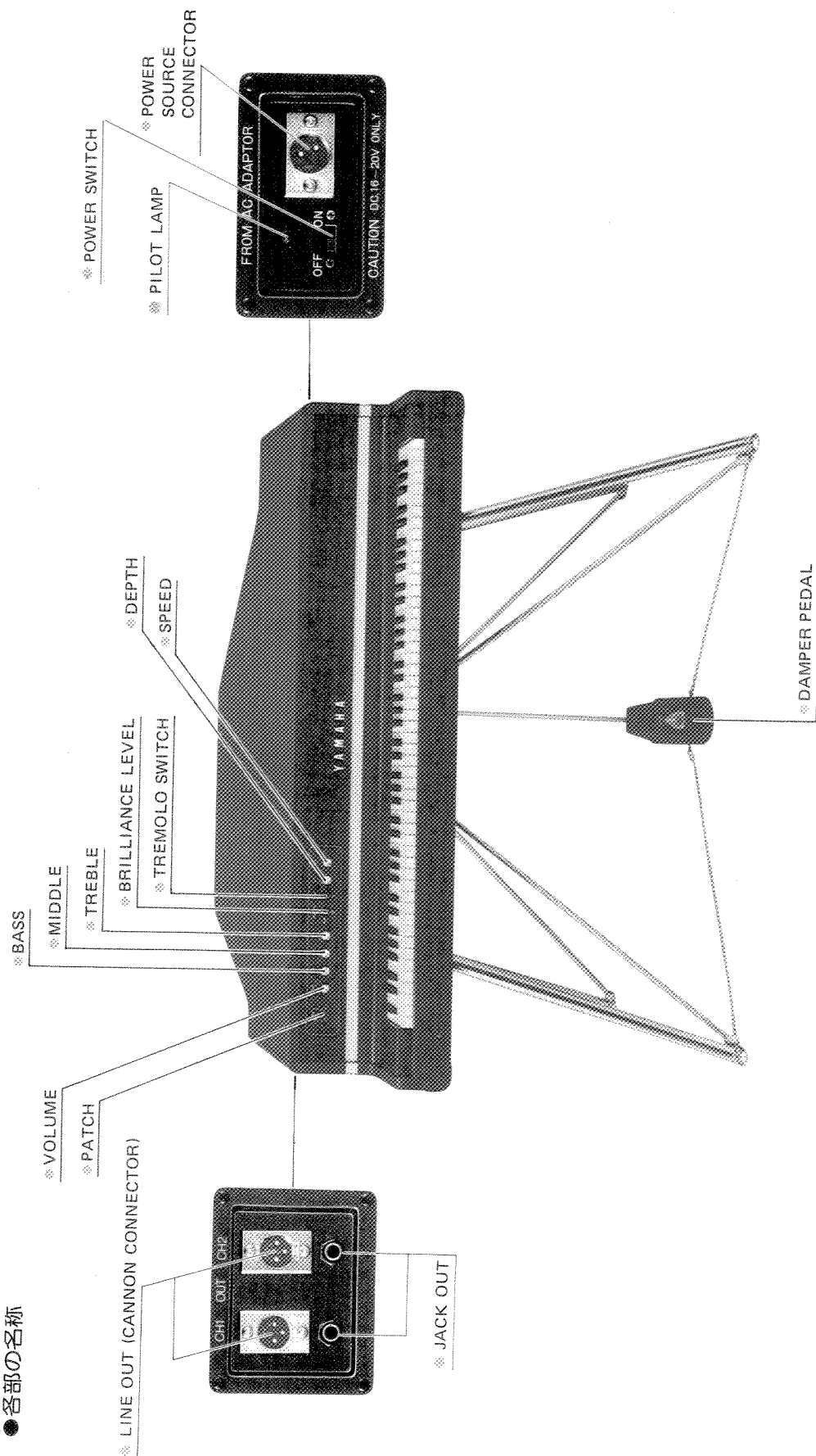
3. IDENTIFICATION OF WIRING MATERIALS

1. Color identification (provided that abbreviation only is used in the pattern drawing)

BL (black)	YE (yellow)
BR (brown)	GR (green)
RE (red)	BE (blue)
OR (orange)	WH (white)
GG (grass green)	TR (transparent)
SB (sky blue)	J (jumper)
PK (pink)	
VI (violet)	
GY (gray)	

●UNIT LAYOUT ユニット配置図

●各部の名称

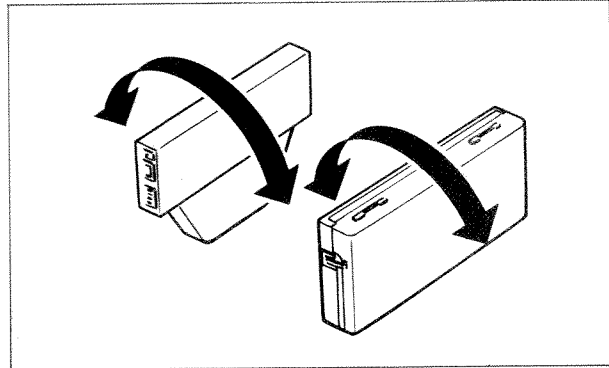


● ASSEMBLY PROCEDURES 組み立て手順

▼ Caution ご注意

1. The model comes in two parts. If they are stood apart separately, they may topple over. This can be dangerous.

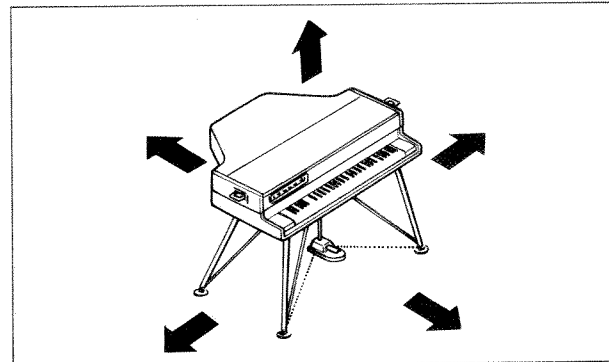
本機を分離し、立てたまま放置すると、転倒することがあり危険です。



2. If the model is moved with the damper pedal attached, the function of the pedal may be impaired. Fully assemble the model, move it to its installation location and then attach the pedal.

ダンパーペダルをつけたままでの移動は、ペダル機能を損なうことがあります。

ペダルは、最終セット位置へ移動後取りつけてください。



3. The special accessory AC adaptor of this model is not interchangeable with power cords which you can buy in electrical appliance stores.

The internal electrical circuit of the model may be damaged if you use any AC adaptor other than the one supplied. Take sufficient care in handling and storing this accessory cord.

本機に付属の専用ACアダプターは、市販の電源コードとは互換性がありません。

専用ACアダプター以外を使用しますと内部電気回路が破損することがあります。取り扱い、保管には充分ご注意ください。

- * When operating the model, make sure that you use an AC adaptor which is suitable for the power line voltage of your area.

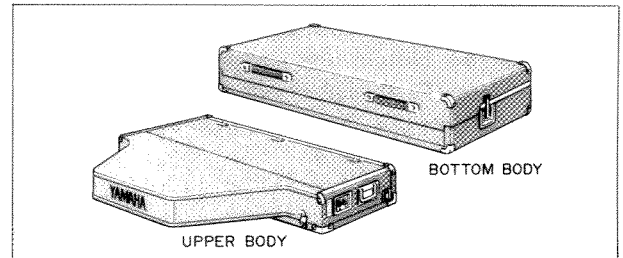
AC ADAPTORS

- JAPANESE MODEL : GA50061 AC100V 50/60Hz
- U.S. and CANADIAN MODEL : GA50063 AC120V 60Hz
- AUSTRALIAN and S. AFRICAN MODEL : GA50065 AC220V 50/60Hz
with Primary Cord
- EUROPEAN MODEL : GA50066 AC220V 50Hz
- GENERAL EXPORT MODEL : GA50069 AC220 ~ 240V 50/60Hz
with Plug U.S. CANADIAN MODEL Type

▼ Assembly 組み立て

1. CHECK THE TOP AND BOTTOM UNITS.

上・下本体の確認

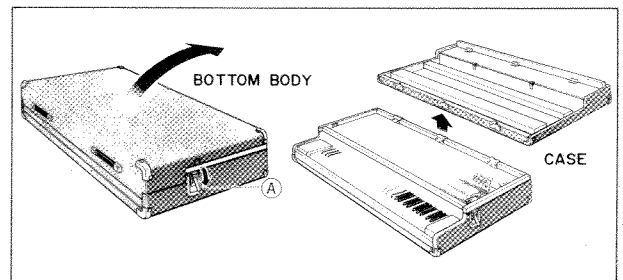


2. REMOVING THE BOTTOM UNIT FROM THE CASE.

Release hooks (A) both at the left and right. Then set the case upright and detach the unit from the hooks.

下本体・ケースの着脱

左右両サイドの(A)フックをはずした後、ケースを完全に起こし引っかけ蝶番よりはずします。



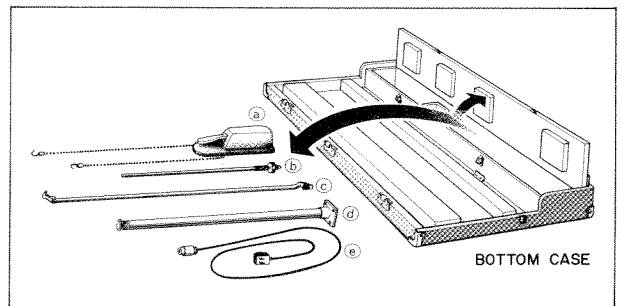
3. REMOVING THE PART CONTAINED IN THE BOTTOM CASE.

- (a) Pedal (b) Pedal Rod
- (c) Foot stays (2 with screws, 2 without)
- (d) Feet (4) (e) AC Adaptor

下ケース収納部品の取り出し

①ペダル ②ペダル突き上げ棒

③脚ステー { ネジ付き×2 ④脚×4 ⑤専用AC
 { ネジ無し×2 アダプター

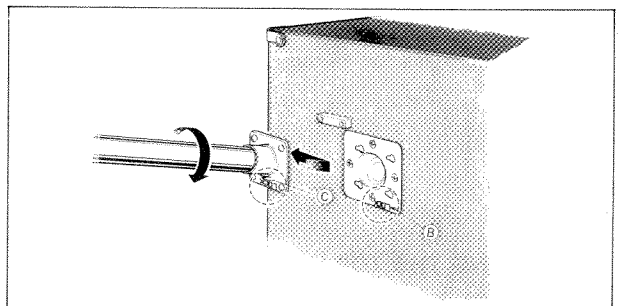


4. ATTACHING THE FEET

Set the bottom unit upright on the keyboard. Insert the feet in the lock (B) direction, and after sliding them into the grooves, rotate them in the lock (C) direction and secure.

脚の取り付け

鍵盤側を上にな本体を起こします。⑥ Lock 方向に脚を差し込み、溝にスライドさせた後⑦ Lock 方向に脚を廻ししっかり固定します。

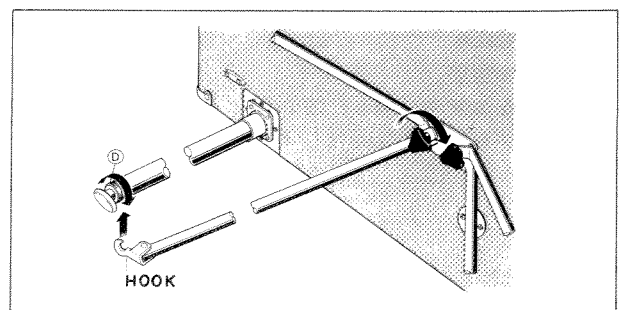


5. MOUNTING THE FOOT STAYS

Place the two stays with screws over the two stays without screws, and secure them temporarily. Then attach the hooks and tighten rings (D). Finally, tighten the stay screws.

脚ステーの取り付け

ネジ無しステーに、ネジの付いたステーを重ね仮り締めを行なった後、フックを掛け⑧リングを締めつけます。最後に、ステーのネジを締めつけます。

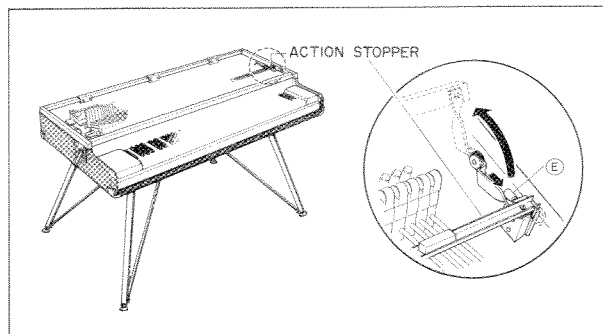


6. SETTING THE BOTTOM UNIT ON ITS FEET

First, set the bottom unit upright, and then depress the buttons (E) at either side. Remove the action stoppers. (Take out the Phone jack cords (2) from the back of the hammer.)

下本体組みあがり

下本体を起こした後、左右両サイドの(E)ボタンを押しアクションストッパーをはずします。(ホーンジャックコード×2をハンマー奥より取り出してください。)

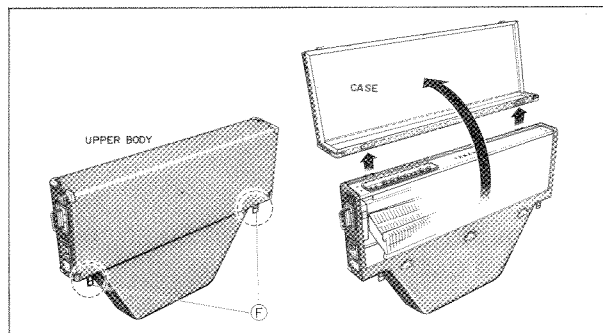


7. REMOVING THE TOP UNIT FROM THE CASE

Stand the top unit up with the YAMAHA identification plate face down, and remove hooks (F). Then set the case upright and detach the unit from the hooks.

上本体ケースの着脱

YAMAHAプレートを下に、上本体を立て(F)フックをはずします。ケースを起こし、引っかけ蝶番よりはずします。

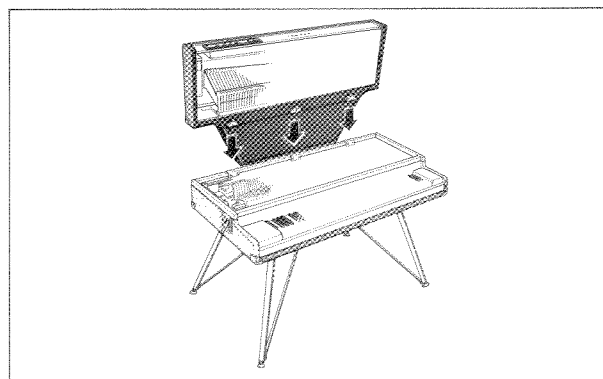


8. MOUNTING THE TOP UNIT

Lift the top unit up vertically, slide it into the hooks and mount.

上本体の取り付け

上本体を垂直に持ち上げ、引っかけ蝶番にはめ込み取りつめます。

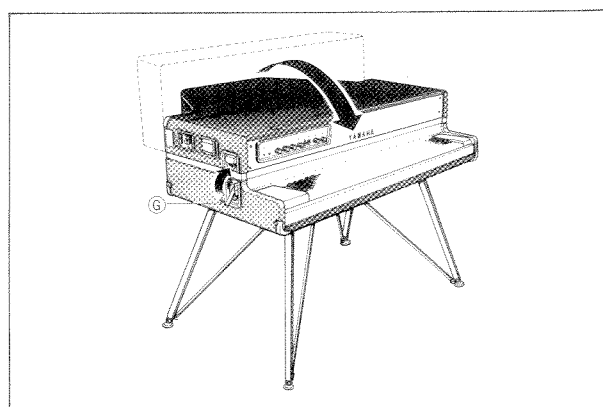


9. SECURING THE TOP UNIT

Lower the top unit down onto the keyboard, and secure it to the bottom unit with hooks (G) at either side.

上本体の装着

上本体を鍵盤側に倒し、左右両サイドの(G)フックで上・下本体をしっかり固定します。

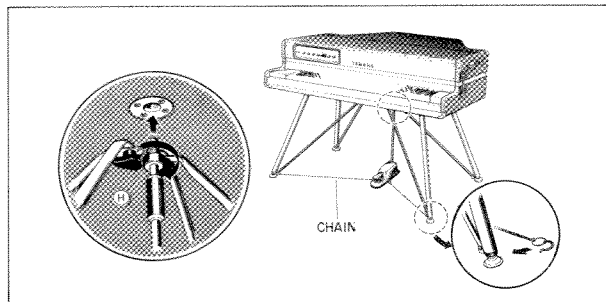


10. ATTACHING THE PEDAL

Insert the pedal Rod securely into the pedal. Then align the bar with the pedal opening and secure it using ring (H). Finally, hook the chains into place.

ペダルの取り付け

ペダルに、ペダル突き上げ棒をしっかりと差し込んだ後、突き上げ棒をペダル穴にあわせ(H)リングで固定します。最後にチェーンを掛けてください。

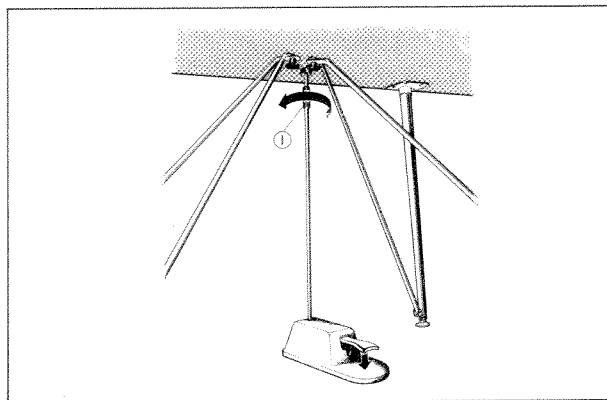


11. ADJUSTING THE PEDAL

Press the pedal down a little at a time with your foot and adjust with ring (I) so that there is no more play. (Play will increase if rotated in the direction of the arrow, and decrease if rotated in the opposite direction.)

ペダル調整

ペダルをこきざみに踏み、あそびがなくなるよう①リングで調整してください。(矢印方向に廻せばあそびは増え、反対方向でなくなってきます。)

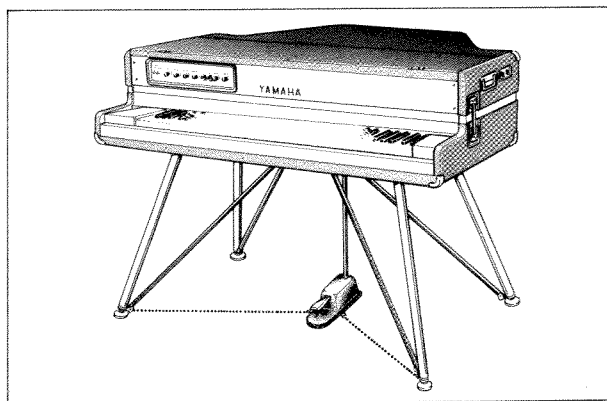


12. COMPLETING THE ASSEMBLY

Connect the AC Adaptor to the right panel and the output cord to the left panel. You have now completed the assembly. (Refer to BLOCK diagram for details on the connections.)

SET-UP完了

専用ACアダプターを右パネルへ、出力コードを左パネルへ接続すれば完了です。(接続についてはブロックダイアグラムをご覧ください。)



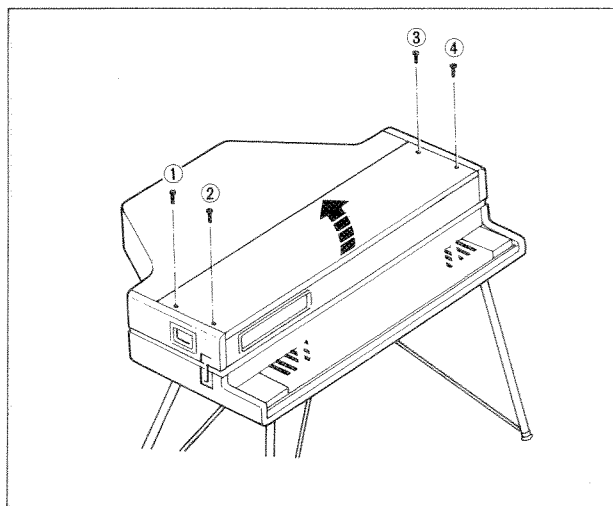
● DISASSEMBLY PROCEDURES 分解手順

1. OPENING THE TOP LID

Unscrew screws (1) to (4) and lift the top lid up.

上蓋の開き方

①～④のスクリューをはずし、上蓋を上を持ち上げます。

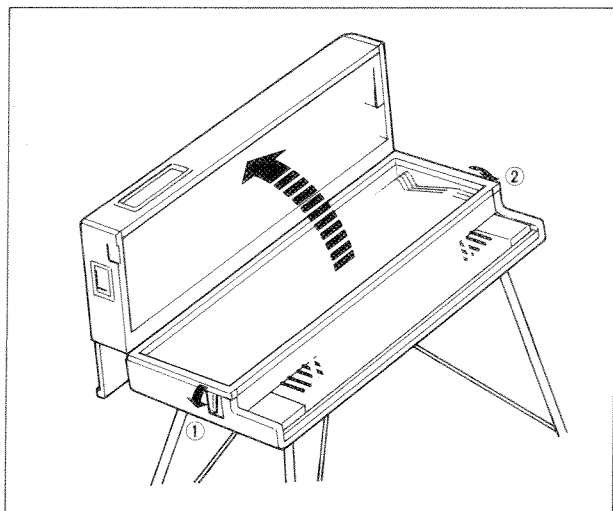


2. OPENING THE TOP UNIT

Release hooks (1) and (2) at the left and right, and lift the top unit up slowly.

上本体の開き方

①、②の左右フックをはずし、ゆっくり上を持ち上げます。

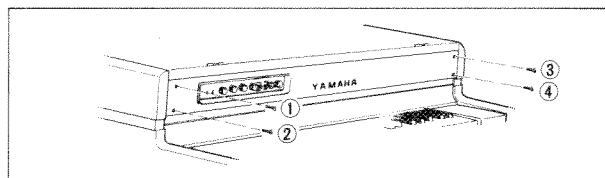


3. DETACHING THE CONTROL PANEL

After opening the top lid, unscrew screws (1) to (4) and detach the control panel, taking care not to damage the wires.

コントロールパネルのはずし方

上蓋を開いた後①～④のスクリューをはずし、束線に注意しながら取りはずします。

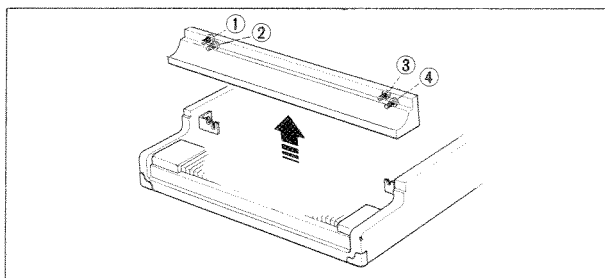


4. REMOVING THE ACTION

Loosen screws (1) to (4), draw the front panel up, and detach the action.

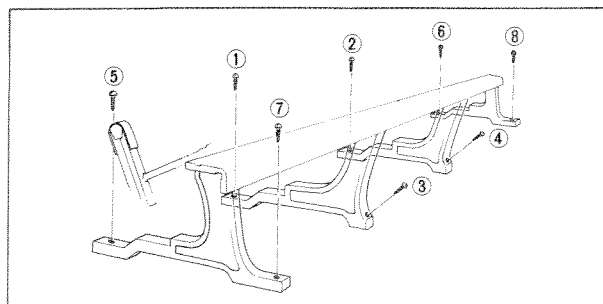
アクションのはずし方

①～④のスクリューを緩め、前板を上に取りはずします。



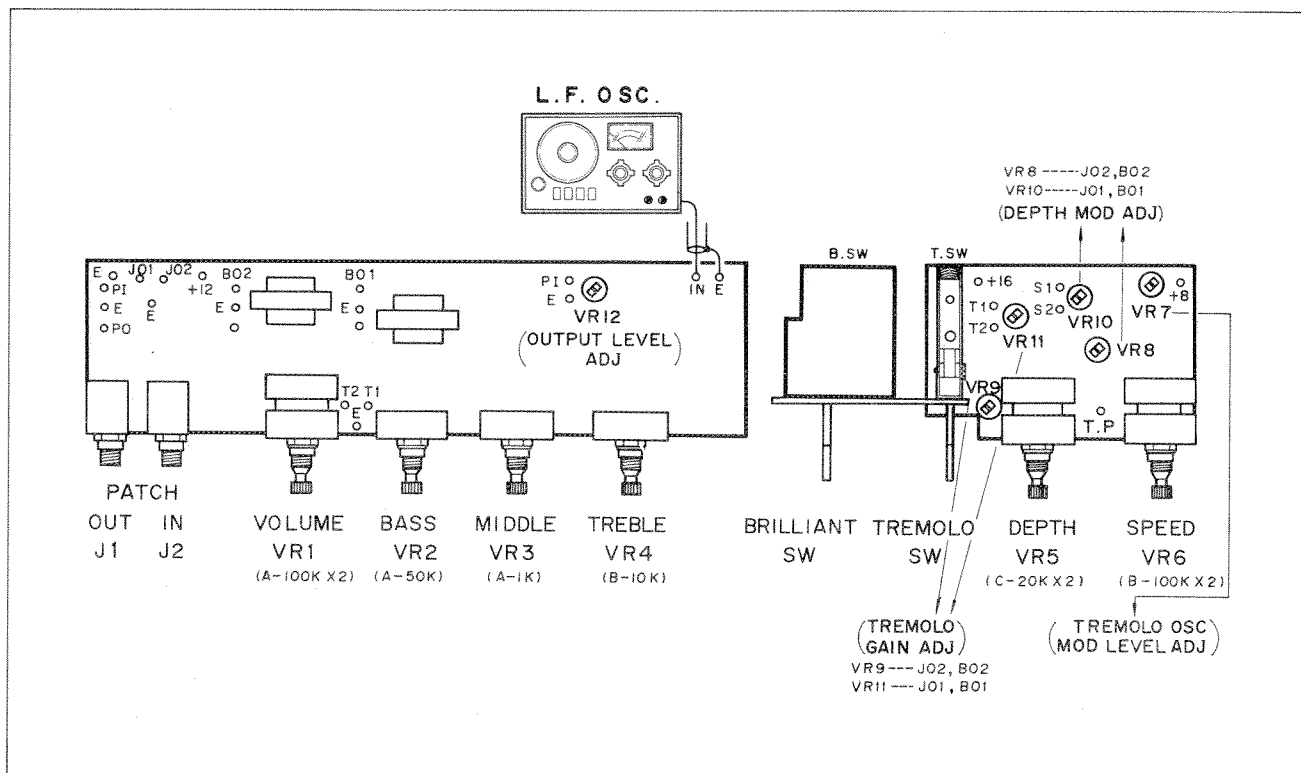
5. Next, remove the screws in order from (1) to (8). When attaching, tighten the screws in order from (8) to (1). (The removal of the action may affect the touch of the keyboard. Avoid this at all cost.)

次に①～⑧のスクリューを順に従ってはずします。取り付けの際は⑧～①の順でスクリューを締めます。
(アクションの取りはずしは、鍵盤のタッチに影響を与えることがありますので極力避けてください。)



▼ TR Circuit Adjustments TRシートの調整

■ Measuring Adjusting 調整箇所



Measuring instruments used: low-frequency oscillator
digital voltmeter

使用測定器：低周波発振器
デジタルボルトメーター

- Set the volume, bass, middle, treble, depth, and speed controls (VR1 to VR6) on the control panel to their rightmost positions, and then set the brilliance level switch to MEDIUM and the tremolo switch to OFF.
コントロールパネルのVOLUME, BASS, MIDDLE, TREBLE, DEPTH, SPEEDの各つまみ (VR1~VR6) は、最大 (時計方向一杯) に回し、BRILLIANCE LEVEL スイッチは MEDIUM、TREMLO スイッチは OFF にセットしておきます。
- Connect the low-frequency oscillator to IN terminal of the TR printed circuit board. Adjust VR12 (10KB) to obtain a -29.0 ± 0.5 dBm output at the P0 terminal when a -32 dBm, 500 Hz signal is applied.
TRシートのIN端子に低周波発振器を接続し、 -32 dBm 500Hzの信号を加えたとき、P0端子に -29.0 ± 0.5 dBm の出力が得られるよう VR12 (10KB) で調整します。
- Adjust VR9 (100KB) and VR11 (100KB) so that a -31 dBm output signal is obtained at J01 and J02 terminals.
J01、J02端子にそれぞれ -31 dBmの出力が得られるよう、VR9 (100KB)、VR11 (100KB) を調整します。
- Check that an output signal of -17.0 ± 1.5 dBm is obtained at the J01 and J02 terminals when the frequency of the input signal is set to 50 Hz. Furthermore, check that an output signal of -19.0 ± 1.5 dBm is obtained at the B01 and B02 terminals.
入力信号周波数を50Hzとしたとき、J01、J02端子の出力は -17.0 ± 1.5 dBmが得られることを確認します。また、B01、B02端子では -19.0 ± 1.5 dBmが得られることを確認します。

5. Set the bass (VR2) control to its leftmost position and check that the output at the J01 terminal is -34.0 ± 1.5 dBm.

BASS(VR2)ツマミを最小にし、J01に -34.0 ± 1.5 dBmの出力が得られることを確認します。

6. Set the bass (VR2) control to its rightmost position again, and check that an output of -23.0 ± 1.5 dBm is obtained at the J01 and J02 terminals and also then an output of -23.0 ± 1.5 dBm is obtained at the B01 and B02 terminals when the frequency of the input signal is set to 5 kHz.

BASS(VR2) ツマミを最大に戻し、入力信号周波数を5kHzにしたとき、J01、J02端子の出力は -23.0 ± 1.5 dBm、またB01、B02端子では -23.0 ± 1.5 dBmが得られることを確認します。

7. Check that the output at the J01 terminals is -35.5 ± 1.5 dBm when the treble (VR4) control is set to its leftmost position.

TREBLE(VR4)ツマミを最少にしたときJ01端子の出力は -35.5 ± 1.5 dBmが得られることを確認します。

8. The output at the J01 terminal should be not more than -70 dBm when the frequency of the input signal is set to 500 Hz, the treble (VR4) control is returned to its rightmost position and when the horn jack is inserted into PATCH OUT (J1). Furthermore, check that the output at the J01 terminal is -31 ± 1 dBm when the other end is inserted into PATCH IN (J2).

入力信号周波数を500Hzとし、TREBLE(VR4) ツマミを最大に戻してホーンプラグをPATCH OUT (J1) に挿入したとき、J01端子の出力は -70 dBm 以下のこと。また、もう一端をPATCH IN(J2)に挿入したとき、J01端子には -31 ± 1 dBmが得られることを確認します。

9. The output at the J01 terminal should not be more than -70 dBm when the volume, bass, middle and treble (VR1 to VR4) controls are set to their leftmost positions. Furthermore, check that the output at the J01 terminal is not more than -70 dBm and that the output at the B91 terminal is -31.0 ± 1.5 dBm when the bass, middle and treble (VR2 to VR4) controls are set to their rightmost positions.

VOLUME, BASS, MIDDLE, TREBLE, (VR1~VR4) の各ツマミを最少にしたとき、J01端子の出力は -70 dBm

以下のこと、またBASS, MIDDLE, TREBLE (VR2~VR4)の各ツマミを最大にしたときJ01端子の出力が、 -70 dBm以下、B01端子では -31.0 ± 1.5 dBmが得られることを確認します。

10. Return the volume (VR1) control to its rightmost position, set the bass, middle and treble (VR2 to VR4) controls to 5, and check that an output of -29.5 ± 1.5 dBm is obtained when the frequency of the input signal is set to 5KHz.

Also check that an output of -24 ± 1.5 dBm is obtained when brilliance level switch is set to HIGH and likewise -41.5 ± 1.5 dBm when it is set to LOW.

VOLUME(VR1)ツマミを最大に戻しVR2~VR4を5の位置にして入力信号周波数を5kHzとしたとき -29.5 ± 1.5 dBm得られること、BRILLIANCE LEVEL スイッチを HIGH にしたとき -24 ± 1.5 dBm、Low にしたとき -41.5 ± 1.5 dBm得られること。

11. Adjust VR7 (22KB) so that the output at TP (pin 7 of IC) is $+16.0 \pm 0.5$ dBm when the volume (VR1) control is returned to its rightmost position.

VOLUME(VR1) ツマミを最大に戻し、TP端子(ICの7番ピン)で $+16.0 \pm 0.5$ dBmの出力が得られるようVR7 (22KB)を調整します。

12. Adjust VR10 (100KB) and VR8 (100KB) so that the modulation fluctuates from more than 40% to less than 15% when the tremolo switch is set to ON, and the depth (VR5) control is varied between its rightmost and leftmost positions.

* The modulation frequency should be 10 ± 1 Hz.

TREMOLO スイッチをONにし、DEPTH(VR5) ツマミを最大から最少に変化させたときの変調度が40%以上から15%以下まで変化するようVR10(100KB) およびVR8(100KB) を調整します。

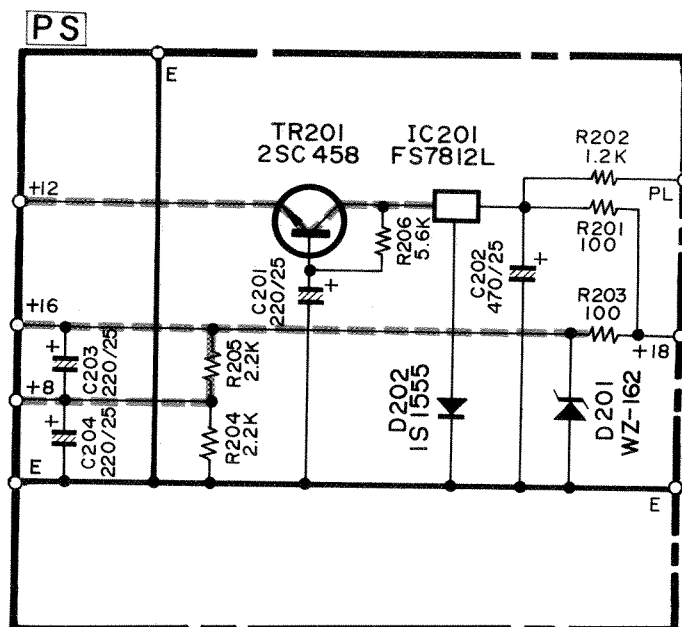
※このときの変調周波数は 10 ± 1 Hzであること。

13. Check that the modulation frequency is 0.8 ± 0.5 Hz when the speed (VR6) control is set to its leftmost position.

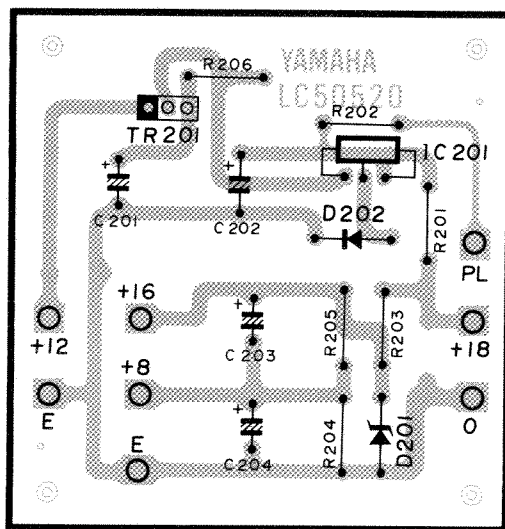
SPEED (VR6) ツマミを最少にしたとき、変調周波数は 0.8 ± 0.5 Hzであることを確認してください。

2, PS CIRCUIT BOARD PSシート (NA50032)

▼ PS CIRCUIT PSシート回路図



▼ PS CIRCUIT BOARD シート図

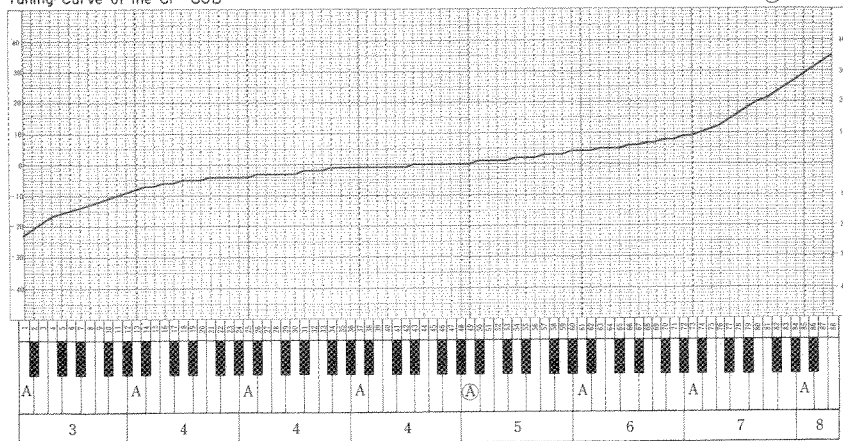


●TUNING THE CP-80 CP-80の調律

49 $\text{\textcircled{A}}$ =440 Hz

Key No.	Cent	DT-4 OctaveSW	Key No.	Cent	DT-4 OctaveSW	Key No.	Cent	DT-4 OctaveSW	Key No.	Cent	DT-4 OctaveSW
1 A	-23	③	23 G	-4	④	45 F	0	④	67 D #	+6	⑥
2 A #	-21	③	24 G #	-4	④	46 F #	0	④	68 E	+7	⑥
3 B	-19	③	25 A	-4	④	47 G	0	④	69 F	+7	⑥
4 C	-17	③	26 A #	-3	④	48 G #	0	④	70 F #	+8	⑥
5 C #	-16	③	27 B	-3	④	49 A	0	⑤	71 G	+8	⑥
6 D	-15	③	28 C	-3	④	50 A #	+1	⑤	72 G #	+9	⑥
7 D #	-14	③	29 #	-3	④	51 B	+1	⑤	73 A	+9	⑦
8 E	-13	③	30 D	-3	④	52 C	+1	⑤	74 A #	+10	⑦
9 F	-12	③	31 D #	-2	④	53 C #	+1	⑤	75 B	+11	⑦
10 F #	-11	③	32 E	-2	④	54 D	+2	⑤	76 C	+12	⑦
11 G	-10	③	33 F	-2	④	55 D #	+2	⑤	77 C #	+14	⑦
12 G #	-9	③	34 F #	-1	④	56 E	+2	⑤	78 D	+16	⑦
13 A	-8	④	35 G	-1	④	57 F	+3	⑤	79 D #	+18	⑦
14 A #	-7	④	36 G #	-1	④	58 F #	+3	⑤	80 E	+20	⑦
15 B	-7	④	37 A	-1	④	59 G	+3	⑤	81 F	+21	⑦
16 C	-6	④	38 A #	-1	④	60 G #	+4	⑤	82 F #	+23	⑦
17 C #	-6	④	39 B	-1	④	61 A	+4	⑥	83 G	+25	⑦
18 D	-5	④	40 C	-1	④	62 A #	+4	⑥	84 G #	+27	⑦
19 D #	-5	④	41 C #	-1	④	63 B	+5	⑥	85 A	+29	⑧
20 E	-5	④	42 D	-1	④	64 C	+5	⑥	86 A #	+31	⑧
21 F	-4	④	43 D #	0	④	65 C #	+5	⑥	87 B	+33	⑧
22 F #	-4	④	44 E	0	④	66 D	+6	⑥	88 C	+35	⑧

Tuning Curve of the CP-80B

49 $\text{\textcircled{A}}$ =440 Hz

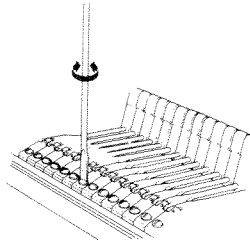
NOTE:

Because of the nature of the harmonics of a vibrating string, it is generally possible to have a string correctly tuned and still hear a "beat" when the string is sounded simultaneously with another tone one octave higher. This phenomenon may be more pronounced in the CP-80 due to its basic design concept aiming at the maximum portability.

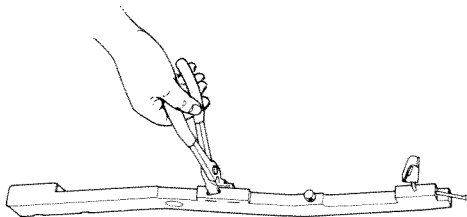
The accompanying curve will be helpful when tuning.

● TONE ADJUSTMENT PROCEDURES 整調手順

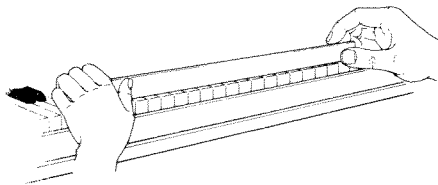
◎ Works content	Hammer spacing, cord adjustment
Purpose	To improve cord striking efficiency of hammer
Dimensions	
Used tools	Screw driver, glue, paper shank pliers



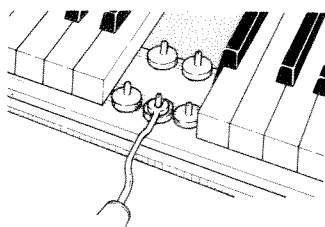
※ Works content	Key board adjustment
Purpose	To smoothen the movement of key board
Dimensions	
Used tools	Key pliers, key hole pinch bar



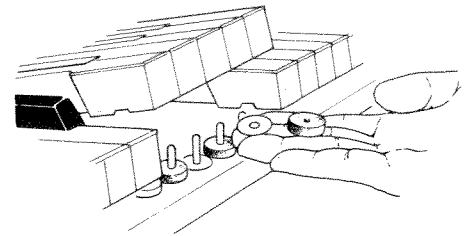
※ Works content	Key board height adjustment
Purpose	To obtain correct touch by keeping correct dimensions
Dimensions	Surface of white key — 64 mm from the shelf Black key — 12 mm from the white key
Used tools	Levelling rule, scale, tweezer, balance paper punching



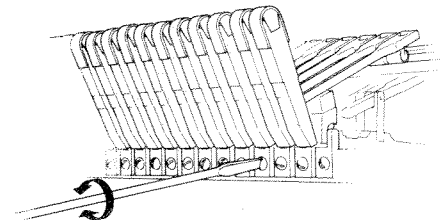
Works content	Key board spacing adjustment
Purpose	To prevent noise by aligning key board
Dimensions	
Used tools	Adjuster of oval key pin



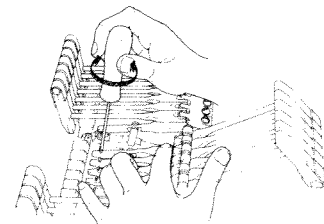
Works content	Key board depth adjustment
Purpose	To obtain correct touch
Dimensions	10 mm
Used tools	Scribing rule, front paper punching



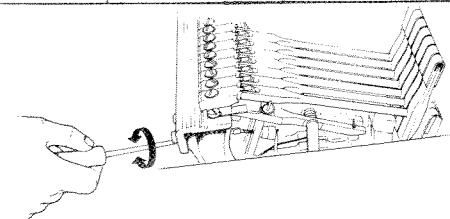
※ Works content	Whippen alignment
Purpose	To eliminate loss of shank pushing-up
Dimensions	
Used tools	Screw driver



◎ Works content	Adjustment of up-and downward movement of jack
Purpose	To eliminate loss of key striking force together with ensuring smooth return of jack
Dimensions	0.1 mm — 0.2 mm
Used tools	Screw driver of jack



◎ Works content	Back and forth movement of jack
Purpose	To eliminate loss of key striking force
Dimensions	
Used tools	Jack screw driver

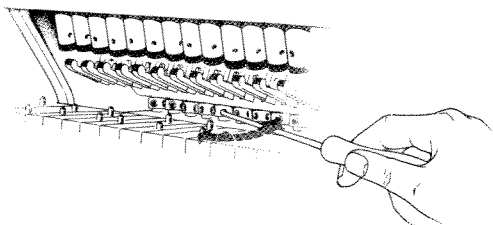


※..... Perform the work with the action released. (Ref. P.8 — 4)

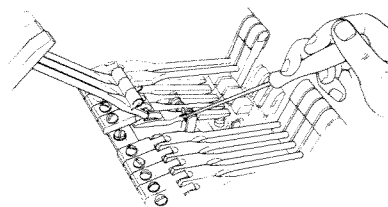
◎..... Perform with the upper unit released. (Ref. P.8 — 2)

● TONE ADJUSTMENT PROCEDURES 整調手順

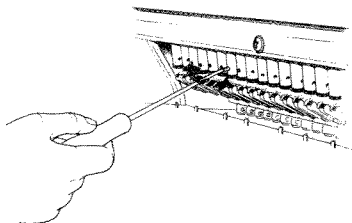
Works content	Hammer adjusting
Purpose	To make touch uniform by equalizing cord striking distance
Dimensions	40 mm
Used tools	Cord striking distance rule, button driver



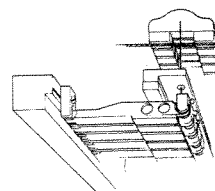
Works content	Spring adjustment of repetition lever
Purpose	To make touch uniform by ensuring correct return of jack and repetition lever
Dimensions	
Used tools	Spring corrector



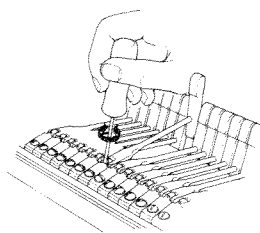
Works content	Hammer approach
Purpose	To obtain correct touch
Dimensions	Low-pitched sound 2.5 mm Middle-pitched sound 2.0 mm High-pitched sound 1.5 mm
Used tools	Button driver



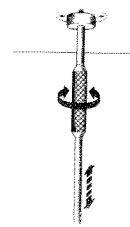
※ Works content	Damper finish
Purpose	To improve pedal effect and sound stop
Dimensions	
Used tools	Screw driver



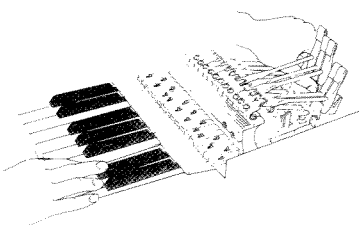
Works content	Hammer return
Purpose	To obtain correct touch
Dimensions	From closest point, 2 mm
Used tools	Repetition regulating screw driver



Works content	Pedal adjustment
Purpose	To improve pedal effect
Dimensions	
Used tools	



Works content	Hammer stop
Purpose	To facilitate the next cord striking quickly
Dimensions	Low 14 mm, Medium 13 mm, High 12 mm
Used tools	Rule



Works content	Overall inspection
Purpose	Uniformity of touch, sound stop
Dimensions	
Used tools	

※.....Perform the work with the action released. (Ref. P.8 - 4)

◎.....Perform with the upper unit released. (Ref. P.8 - 2)

Notes

Old Part No.	New Part No.	Description	CP-70	CP-70B	CP-80
30 03 00 13 00 01 80	BX 50 00 30	Top Hinge ロ ン グ ヒ ン ジ			●
30 03 00 10 00 07 00	BX 50 00 40	Damper Rod ダ ン パ ー ロ ッ ド			●
30 03 00 67 00 01 60	CX 50 00 20	Latch Cover(1) ク ラ ン プ カ バ ー (1)	●	●	●
30 03 00 67 00 01 70	CX 50 00 30	" (2) " (2)	●	●	●
30 05 00 30 00 27 20	CX 50 00 40	Black Key Top 黒 鍵	●	●	●
30 03 70 95 08 02 10	DX 50 00 90	Top Lid(Front) 屋 根 (前)	●	●	
30 03 80 00 08 02 10	DX 50 01 00	" (") "			●
30 03 70 95 08 02 20	DX 50 01 10	" (Back) 屋 根 (後)	●	●	
30 03 80 00 08 02 20	DX 50 01 20	" (") "			●
30 03 70 95 08 39 20	DX 50 01 30	Harp Section Cover Assy 上 ケ ー ス 蓋 A s s y	●	●	
30 03 80 00 08 39 20	DX 50 01 40	" " "			●
30 03 70 95 08 39 30	DX 50 01 50	Keyboard Section Cover Assy 下 ケ ー ス 蓋 A s s y	●	●	
30 03 80 00 08 39 30	DX 50 01 60	" " "			●
30 03 70 95 08 17 10	DX 50 01 70	Upstop Rail 鍵 盤 押 え	●	●	
30 03 80 00 08 17 10	DX 50 01 80	" " "			●
30 03 80 00 08 15 00	DX 50 01 90	Keyslip 口 棒			●
30 03 71 00 08 54 60	NX 50 28 90	Bass String(Set) 巻 線		●	
30 03 80 00 08 54 60	NX 50 29 00	" (Set) "			●

Since the left side parts numbers in the above description have been revised to the right side new ones, please order them with new numbers.

上記リストの部品はパーツNo.を変更しました。今後は新No.でオーダー下さい。



PARTS LIST

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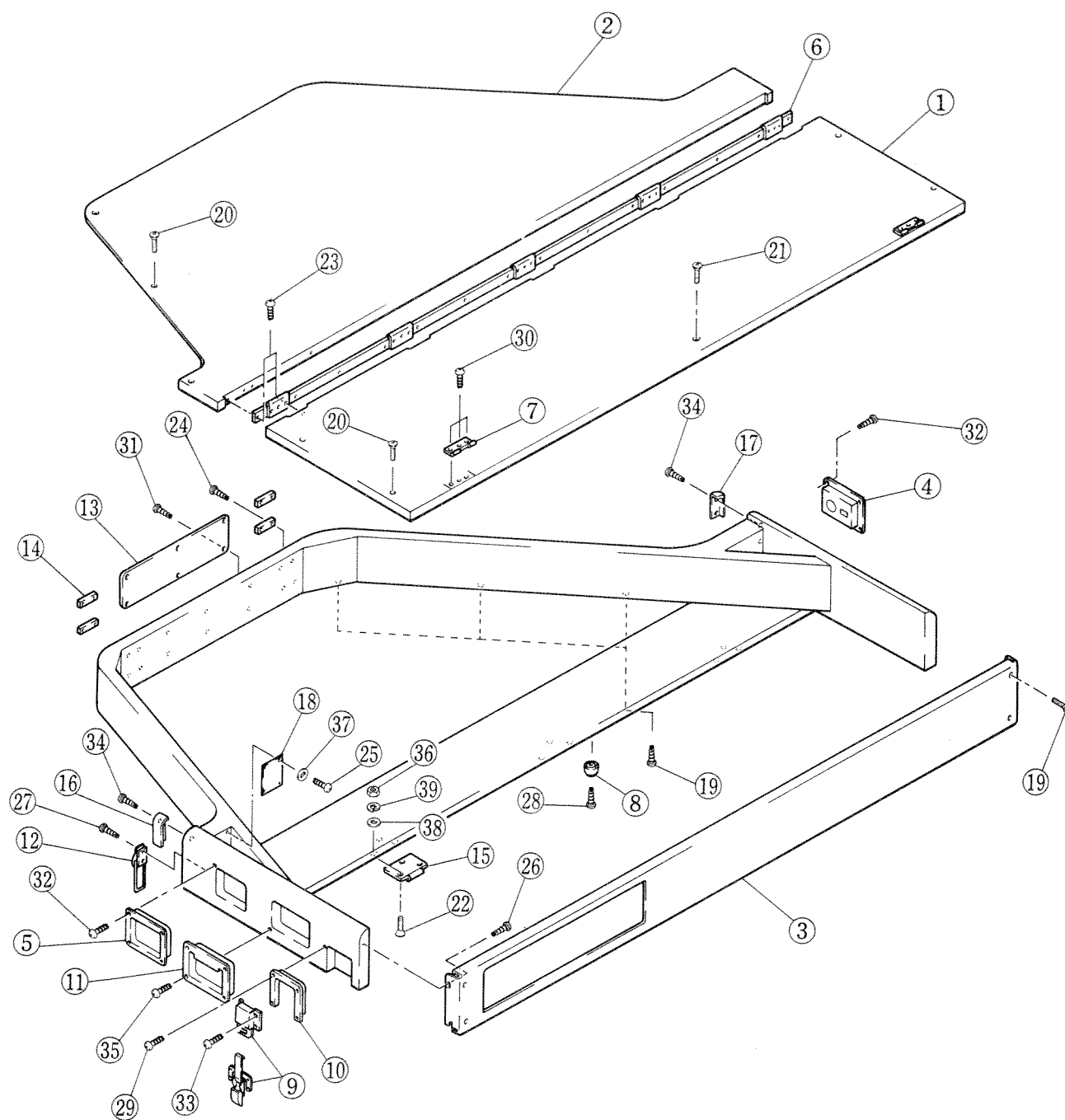
1. Electronic Components (電気部品)	1
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4. Side Panel (左右パネル)	7
5. Keyboard Section (下本体)	9
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1. Electronic Components (電気部品)

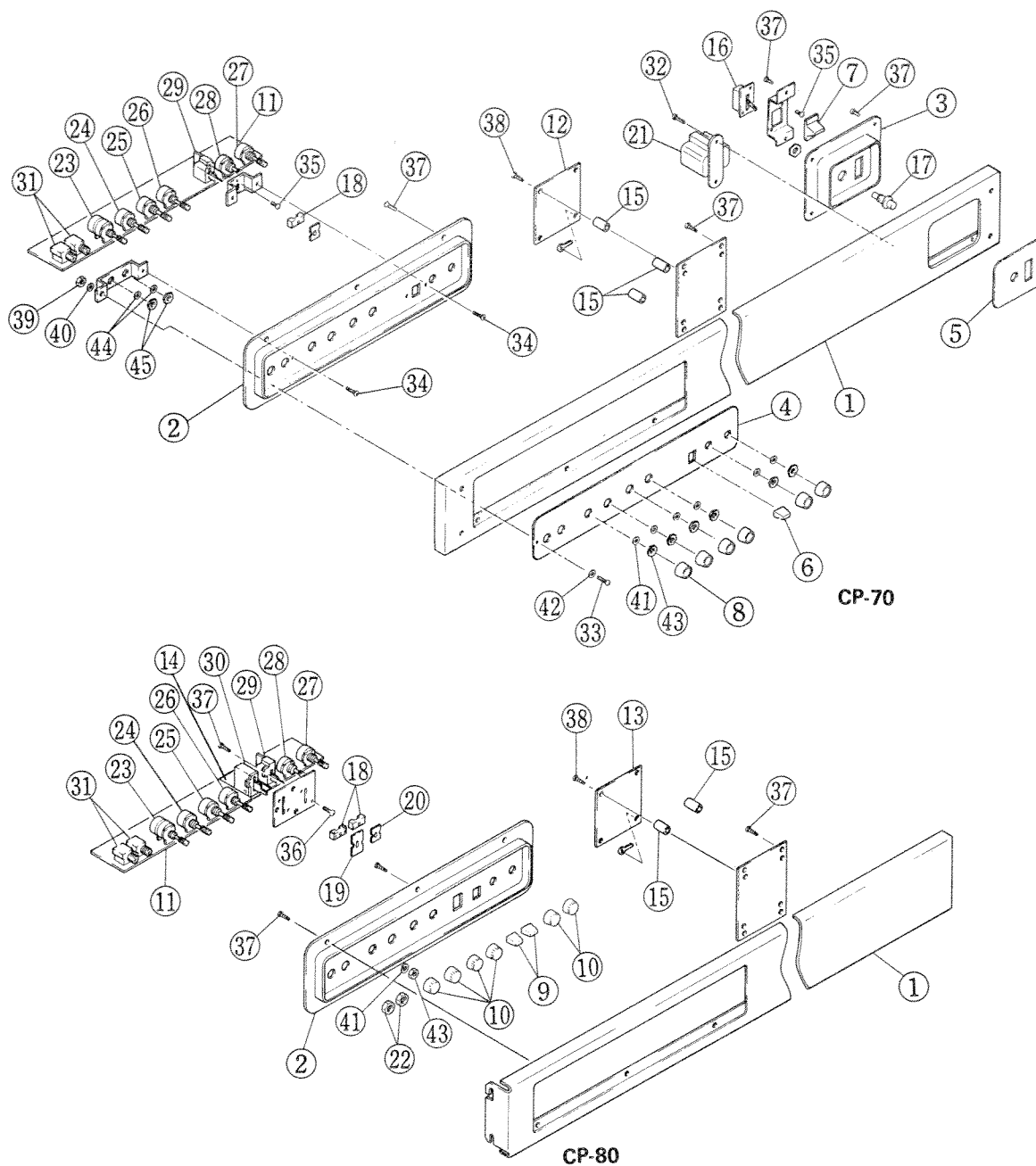
Ref. No.	Part No.	Description	部 品 名	CP-70	CP-70B	CP-80		
	NA 50 01 50	Circuit Board, TR	T R シ ー ト	*				
	NA 50 03 10	- do. - , TR	"		*			
	NA 50 03 50	- do. - , TR	"			*		
	NA 50 01 70	- do. - , DC	D C シ ー ト	*				
	NA 50 01 80	- do. - , LT	L T シ ー ト	*				
	NA 50 03 20	- do. - , PS	P S シ ー ト		*	*		
	LC 50 55 00	P.C. Board, BR	BRシートプリント基板			*		
	i G 00 13 90	IC	NJM4558DV	I C	*	*	*	
	i G 02 78 00	- do. - \Rightarrow iG027850	FS7812L	"		*	*	
	i G 02 78 50	- do. -	μ PC78L12	"		*	*	
	i C 04 58 30	Transistor	2SC458(C)	ト ラ ン ジ ス タ		*	*	
	i C 13 45 30	- do. -	2SC1345(D)	"	*			
	i E 00 00 10	FET	2SK30A-Y	F E T	*	*	*	
	i F 00 00 40	Diode	1S1555	ダ イ オ ー ド		*	*	
	i F 00 06 00	LED	BD-301RR	L E D		*	*	
	i F 00 06 50	Zener Diode	WZ162	ツェナーダイオード		*	*	
	i F 00 08 80	- do. -	WZ050	"	*	*	*	
	i H 00 02 40	Diode	1S1885	ダ イ オ ー ド	*			
	i K 00 01 50	Photo-Coupler	MCD527	フ ォ ト カ プ ラ ー	*			
	i K 00 01 80	- do. - (Low Noise)	MCD527	"		*	*	
	HS 42 01 10	Variable Resistor (Volume)	A100K Ω x 2	可 変 抵 抗 器	*	*	*	
	HS 42 01 20	- do. - (Bass)	A50K Ω	"	*	*	*	
	HS 42 01 30	- do. - (Middle)	A1K Ω	"	*	*	*	
	HS 42 01 40	- do. - (Treble)	B10K Ω	"	*	*	*	
	HS 42 01 50	- do. - (Speed)	B100K Ω x 2	"	*	*	*	
	HS 42 01 60	- do. - (Depth)	C20K Ω x 2	"	*	*	*	
	HT 41 00 70	Semi Variable Resistor	B10K Ω	半 固 定 抵 抗	*	*	*	
	HT 41 00 80	- do. -	B22K Ω	"	*	*	*	
	HT 41 00 90	- do. -	B100K Ω	"		*	*	
	FM 11 61 00	B.P. Capacitor	1 μ F/50V	B P コ ン デ ン サ	*	*	*	
	FM 11 62 20	- do. -	2.2 μ F/50V	"		*	*	
	FP 35 54 70	Tantalum Capacitor	0.47 μ F/35V	タ ン タ ル コ ン		*	*	
	GA 50 04 30	Power Transformer	(J, U, C)	電 源 ト ラ ン ス	*			
	GA 50 04 50	- do. -	(SA, AU)	"	*			
	GA 50 04 70	- do. -	(NE)	"	*			
	GA 50 06 10	AC Adaptor	(J)	A C ア ダ プ タ ー		*	*	
	GA 50 06 30	- do. -	(U, C)	"		*	*	
	GA 50 06 50	- do. -	(AU, SA)	"		*	*	
	GA 50 06 60	- do. -	(NE)	"		*	*	
	GA 50 06 90	- do. -	(G)	"		*	*	
	GD 90 02 50	Line Transformer		ラ イ ン ト ラ ン ス	*	*	*	

J: Japanese, U: U.S., C: Canadian, AU: Australian, SA: S. African, NE: N. European G: General

2. Harp Section (上本体)



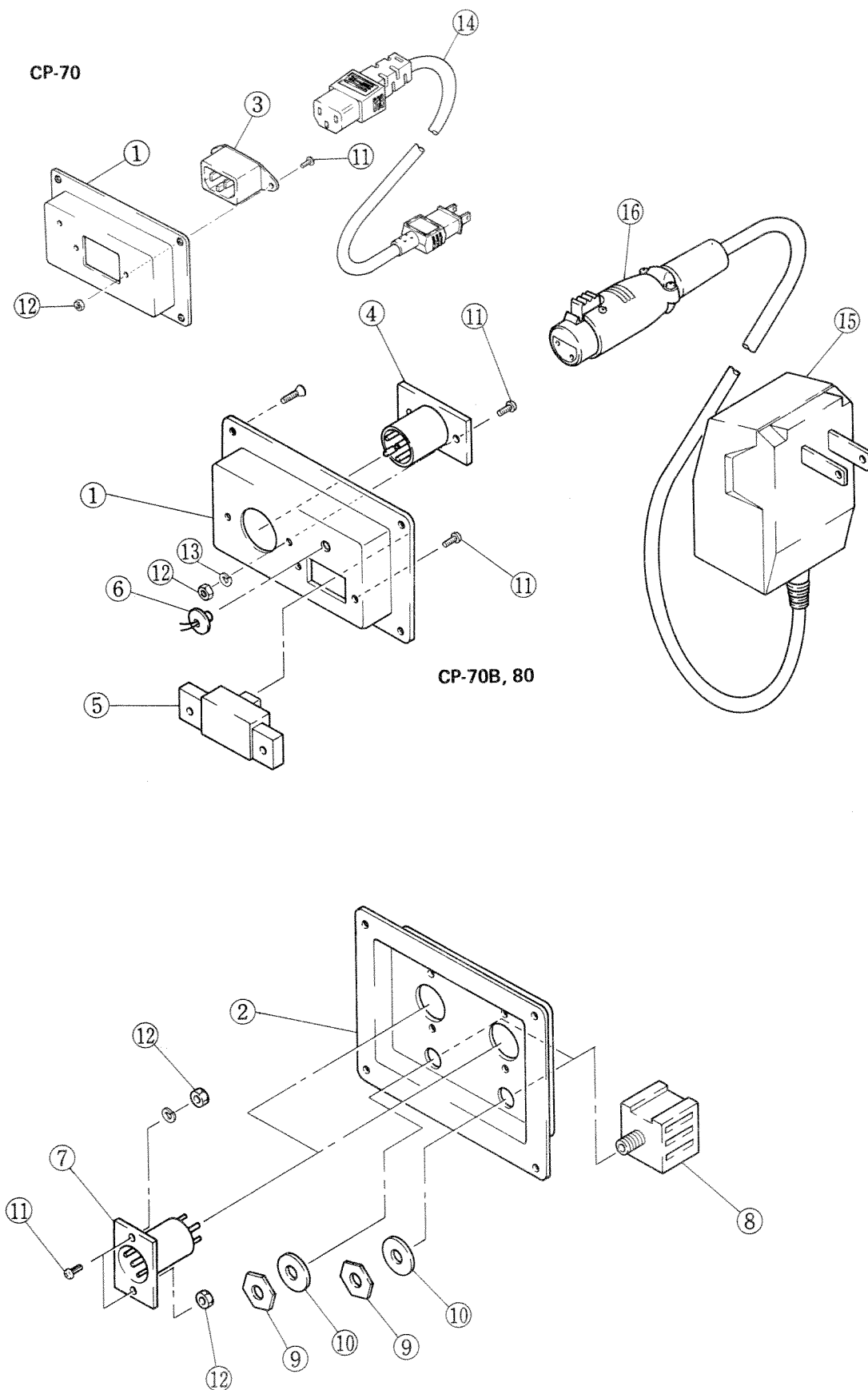
3. Front Panel (前板)



Ref. No.	Part No.	Description	部 品 名	CP-70	CP-70B	CP-80		
1	AA 50 18 60	Front Panel	前 板	●				
"	AA 50 19 50	- do. -	"		●			
"	AA 50 18 70	- do. -	"			●		
2	CB 50 07 30	Control Panel, (A)	操 作 パ ネ ル (A)	●	●			
3	CB 50 07 40	- do. - , (B)	" (B)	●				
"	CB 50 13 40	- do. -	"			●		
4	AA 50 11 00	Control Panel, (A)	操 作 パ ネ ル 化 粧 (A)	●	●			
5	AA 50 11 10	- do. - , (B)	" (B)	●				

J: Japanese, U: U.S., C: Canadian, AU: Australian, SA: S. African, NE: N. European, G: General

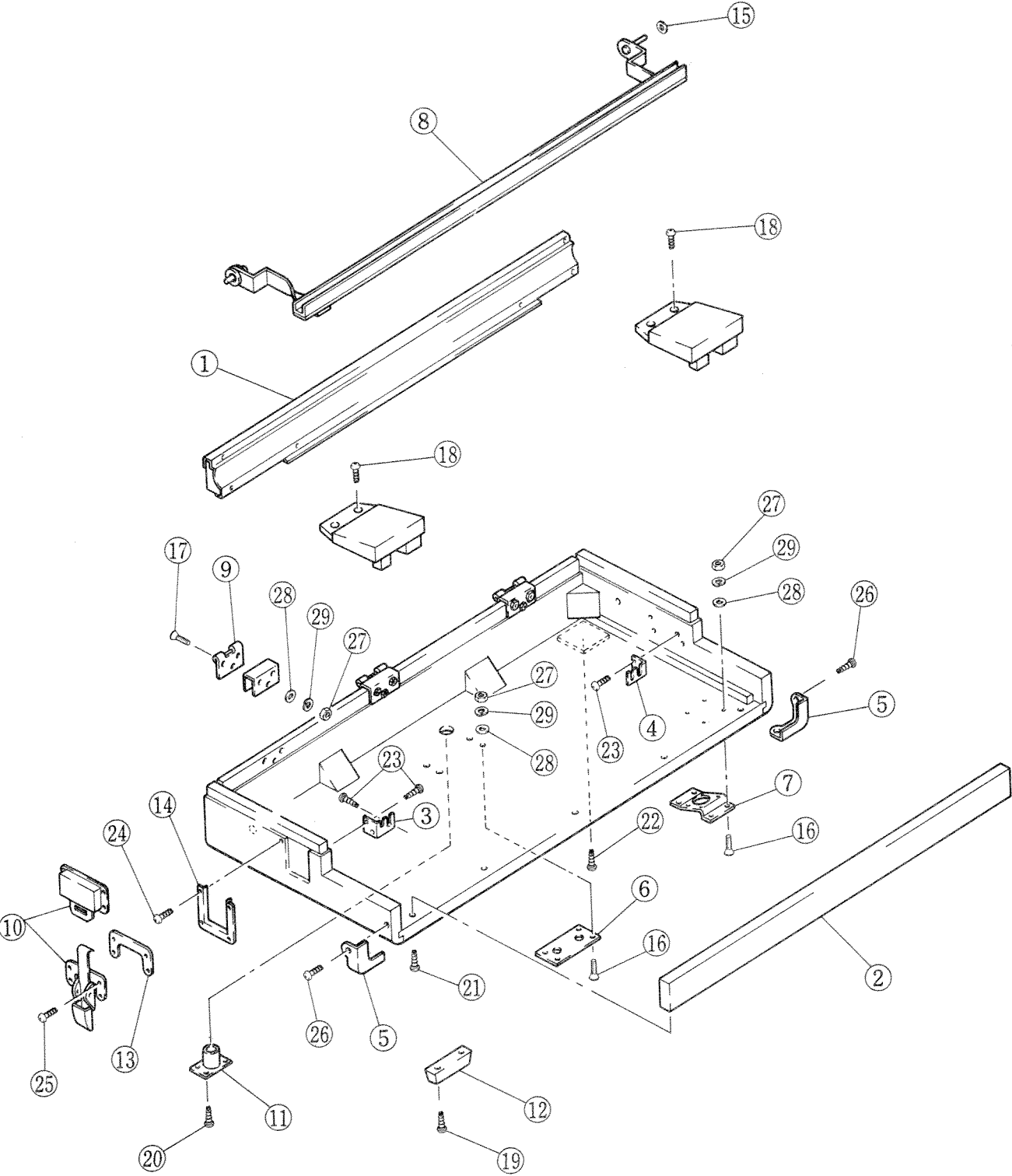
4. Side Panel (左右パネル)



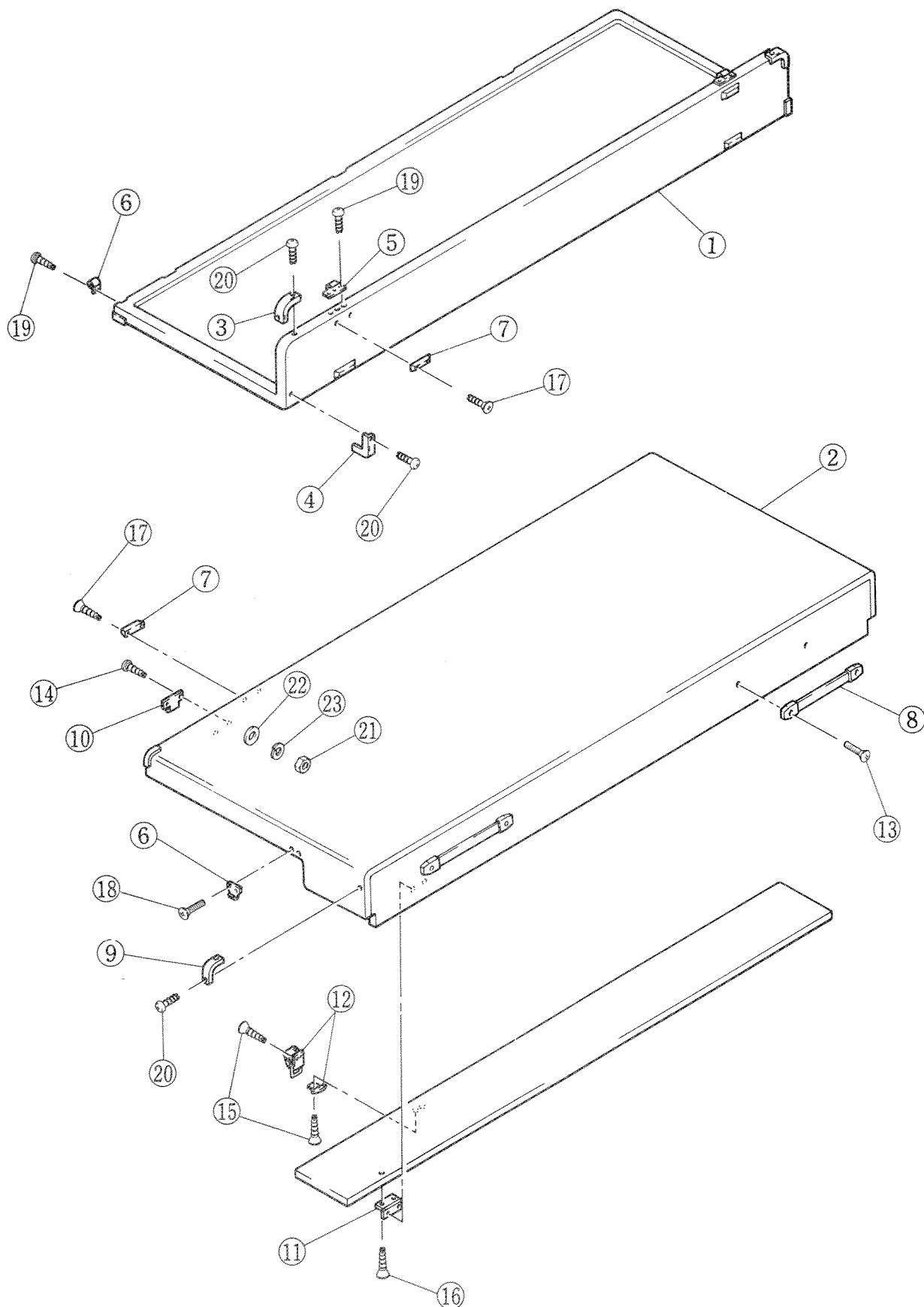
Ref. No.	Part No.	Description		部 品 名	CP-70	CP-70B	CP-80		
1	AA:50:08:60	Panel (Right)		パ ネ ル (右)	●				
"	AA:50:19:40	— do. — (- do. —)		"		●	●		
2	AA:50:20:40	— do. — (Left)		パ ネ ル (左)	●	●	●		
3	LB:30:05:60	AC Socket		A C ソ ケ ッ ト	●				
4	LB:20:07:60	Connector	XLR-2-32	キャノンソケット		●	●		
5	KA:40:06:10	Slide Switch	POWER	スライドスイッチ		●	●		
6	i F:00:06:00	LED BD-301RR	POWER IND.	L E D		●	●		
7	LB:30:01:60	Connector	XLR-3-32	キャノンソケット	●	●	●		
8	LB:20:06:30	Phone Jack		ホ ー ン ジャ ッ ク	●	●	●		
9	CB:06:20:10	Phone Nut	⇒ BA500360	ホ ー ン ナ ッ ト	●	●	●		
"	BA:50:03:60	— do. —		"	●	●	●		
10	EK:00:23:70	Fiber Washer		ファイバーワッシャー	●	●	●		
11	EA:23:01:00	Pan Head Screw	M3 x 10 CR	ナ ベ 小 ネ ジ	●				
"	EF:23:01:00	Oval Head Screw	M3 x 10 CR	丸 皿 小 ネ ジ		●	●		
12	EV:10:00:30	Hexagonal Nut	M3 YE	六 角 ナ ッ ト	●	●	●		
13	EV:30:00:30	Spring Lock Washer	3S YE	パ ネ 座 金		●	●		
14	MG:00:05:60	AC Cord	(J)	電 源 コ ー ド	●				
"	MG:00:05:80	— do. —	(U, C)	"	●				
"	MG:00:03:60	— do. —	(NE)	"	●				
"	MZ:80:06:50	— do. —	(SA)	"	●				
"	MZ:80:17:40	— do. —	(AU)	"	●				
15	GA:50:06:10	AC Adaptor For 100V	(J)	A C ア ダ プ タ ー		●	●		
"	GA:50:06:30	— do. — For 120V	(U, C)	"		●	●		
"	GA:50:06:50	— do. — For 220V	(AU, SA)	"		●	●		
"	GA:50:06:60	— do. — For 220V	(NE)	"		●	●		
"	GA:50:06:90	— do. — For 200V	(G)	"		●	●		
16	LB:20:07:80	Connector	XLR-2-11C	キャノンプラグ		●	●		

J: Japanese, U: U.S., C: Canadian, AU: Australian, SA: S. African, NE: N. European, G: General

5. Keyboard Section (下本体)

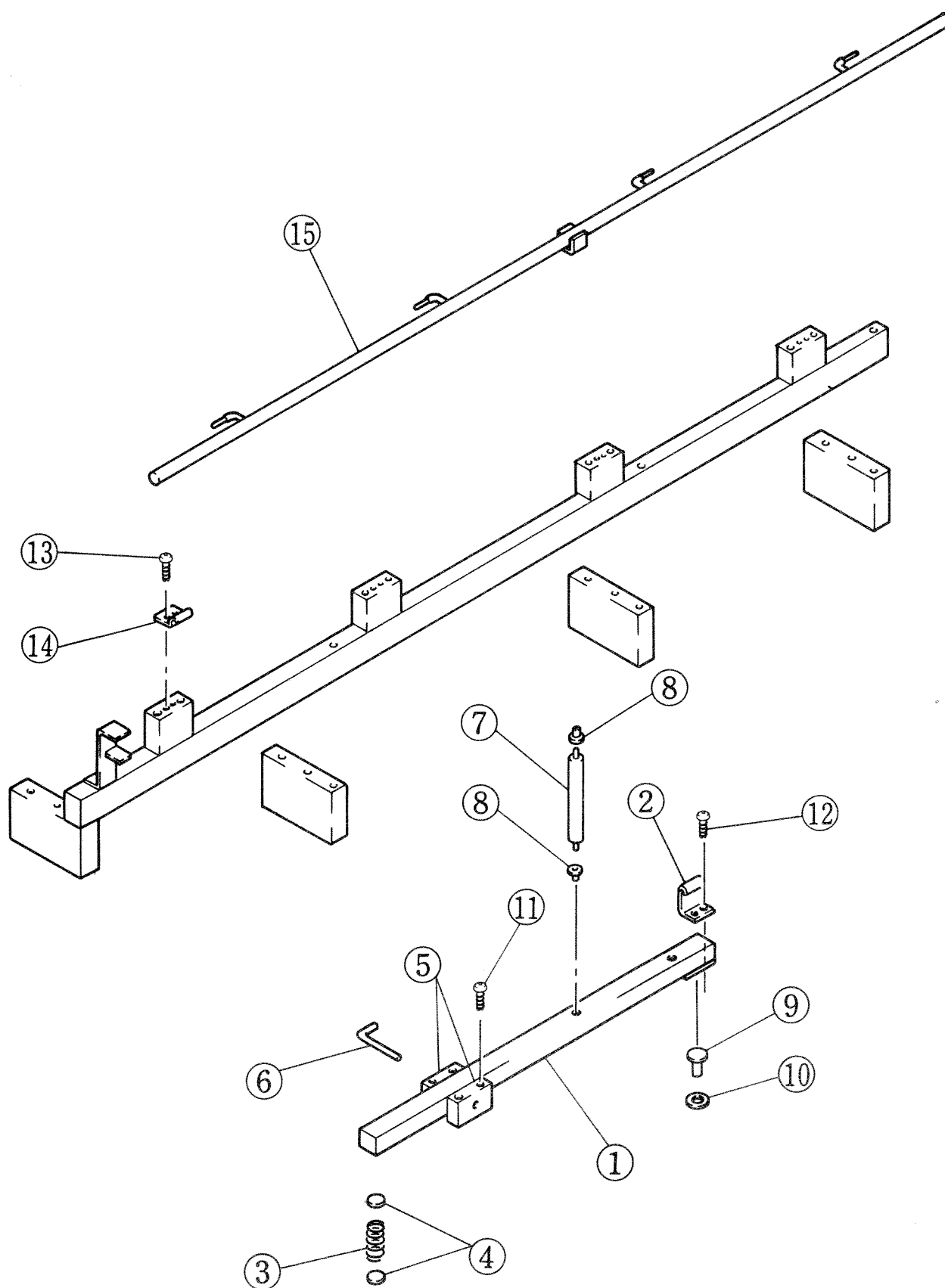


6. Cover (蓋)

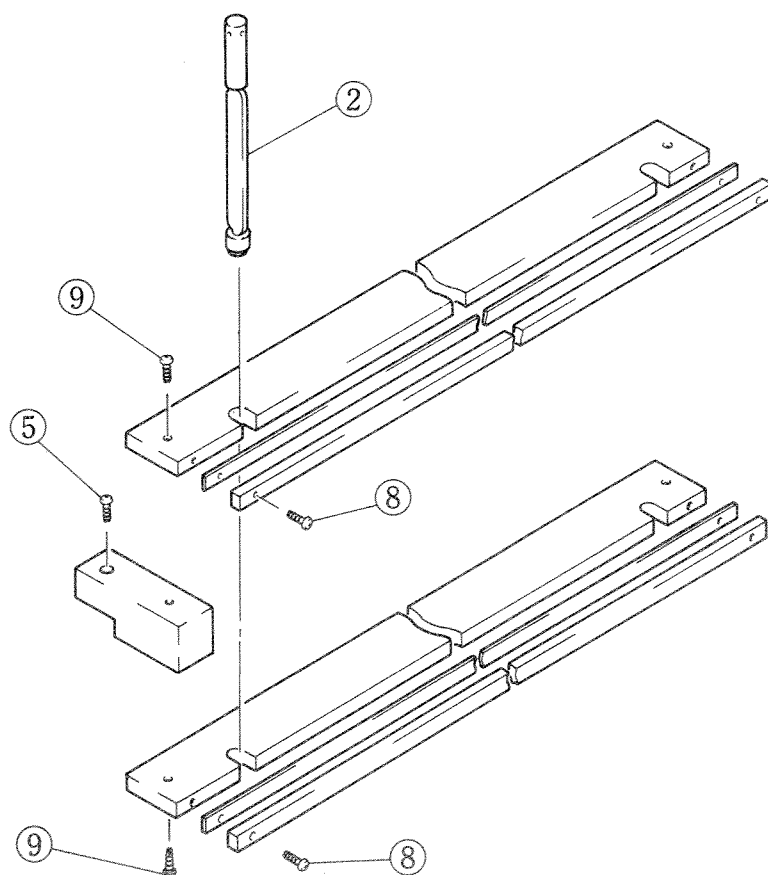
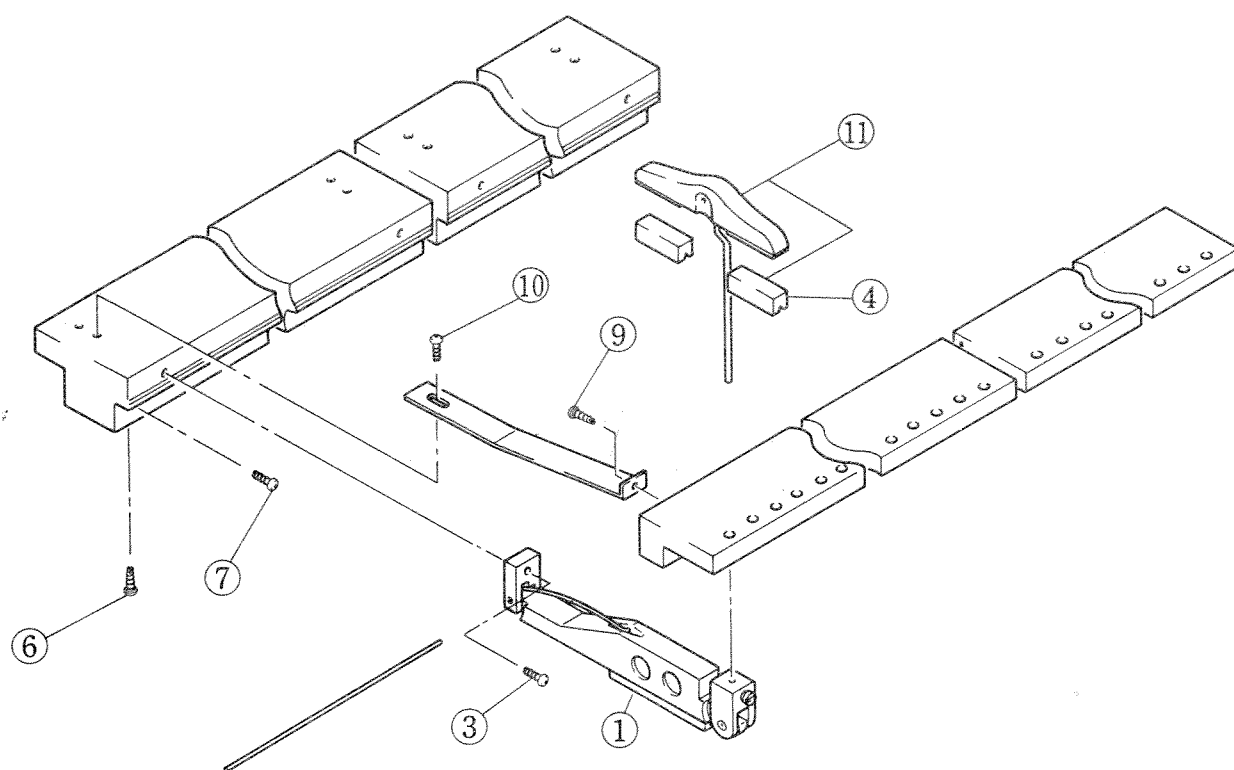


This diagram illustrates the exploded view of a mechanical assembly, featuring 22 numbered components. The assembly includes a base plate (1) with a handle (20) and a trigger mechanism (4). A vertical rod (2) is connected to the base via a pin (9) and a bush (1). A horizontal rod (15) is connected to the vertical rod via a pin (17) and a bush (19). A long vertical rod (16) is connected to the horizontal rod via a pin (14) and a bush (18). A horizontal rod (13) is connected to the vertical rod (16) via a pin (21) and a bush (22). A horizontal rod (7) is connected to the vertical rod (16) via a pin (8) and a bush (11). A horizontal rod (3) is connected to the vertical rod (16) via a pin (10) and a bush (12). A horizontal rod (6) is connected to the vertical rod (16) via a pin (5) and a bush (21). A horizontal rod (5) is connected to the vertical rod (16) via a pin (4) and a bush (21). A horizontal rod (1) is connected to the vertical rod (16) via a pin (3) and a bush (21).

8. Pedal Lever, Rod (ペダルレバー, ロッド)



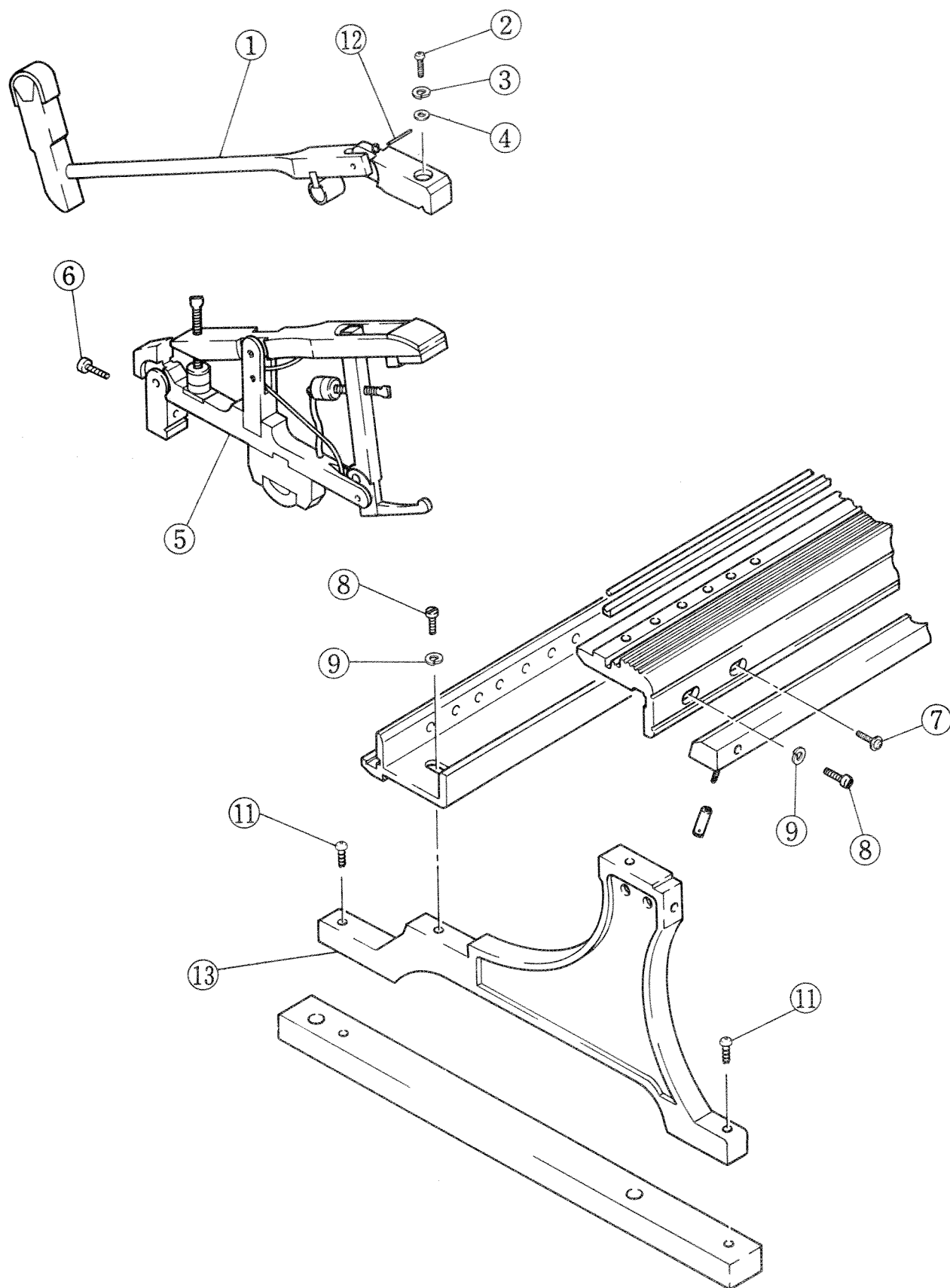
9. Damper Assy (ダンパー Assy)



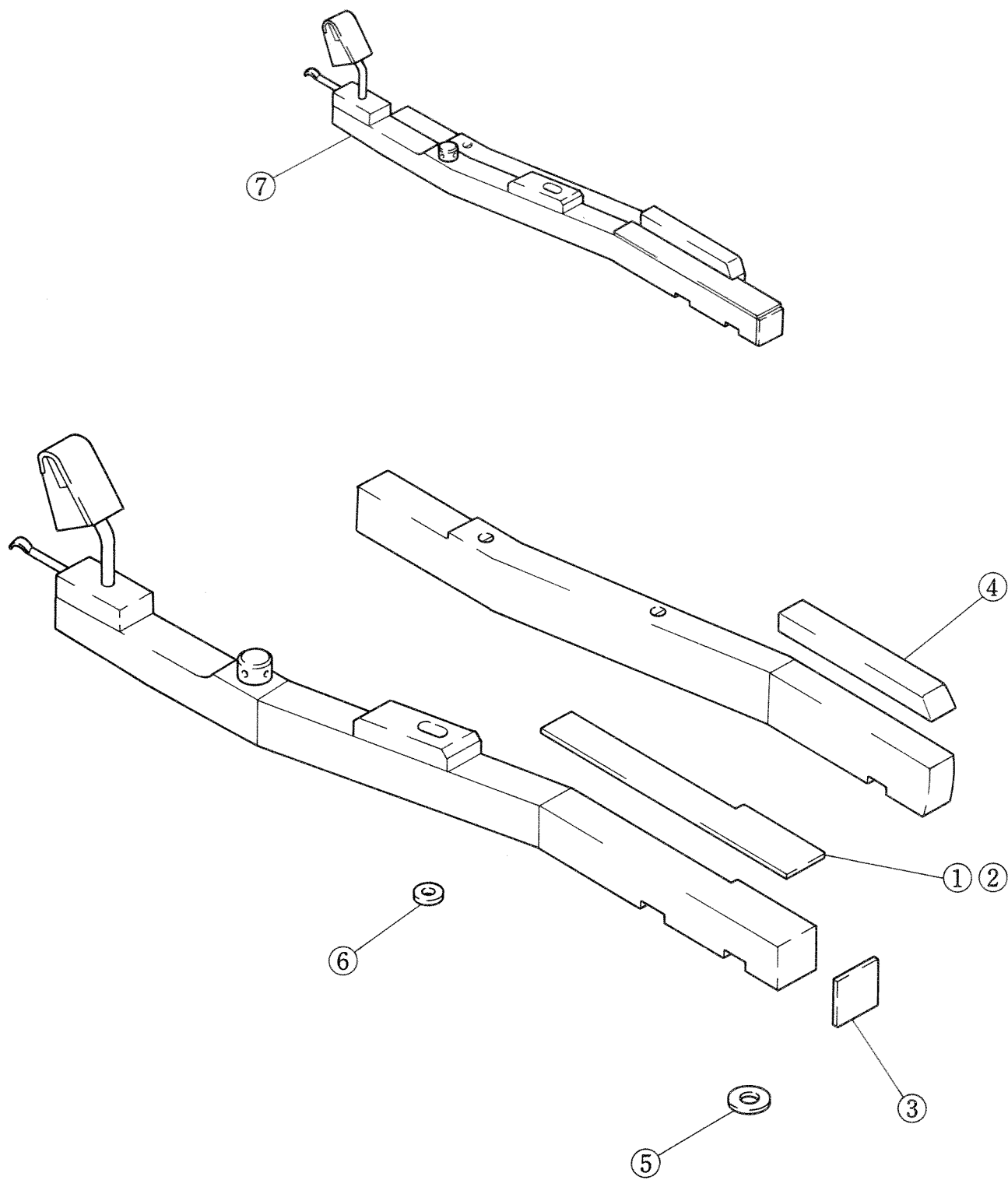
Ref. No.	Part No.	Description	部 品 名		CP-70	CP-70B	CP-80		
1	NB 97 01 10	Damper Lever Assy	CP-70, 70B 1E ~ 25E	CP-80 1A ~ 32E	ダンパーレバー Assy	●	●	●	
"	NB 97 01 20	- do. -	26F ~ 50F	33F ~ 60G	"	●	●	●	
"	NB 97 01 30	- do. -	51F ~ 64G	61A ~ 73A	"	●	●	●	
2	NB 97 01 70	Damper Lift Post			ダンパー突上 Assy	●	●	●	
3	AA 97 02 50	Damper Lever Screw			ダンパーレバースクリュー	●	●	●	
4	CC 90 00 30	Damper Felt		▽	ダンパーフェルト	●	●	●	
"	CC 90 00 40	- do. -		▽	"	●	●	●	
"	CC 90 00 50	- do. -		□	"	●	●	●	
5	EP 03 53 20	Flat Head Wood Screw	3.5 x 32	YE	皿 木 ネ ジ	●	●	●	
6	EP 04 12 50	- do. -	4.1 x 25	YE	"	●	●	●	
7	EP 04 14 00	- do. -	4.1 x 40	YE	"	●	●	●	
8	EQ 02 71 30	Round Head Wood Screw	2.7 x 13	YE	丸 木 ネ ジ	●	●	●	
9	EQ 03 11 30	- do. -	3.1 x 13	YE	"	●	●	●	
10	EQ 03 51 30	- do. -	3.5 x 13	YE	"	●	●	●	
11	NB 50 60 10	Damper Head Assy	Key # 1	E	ダンパーヘッド Assy	●	●		
"	NB 50 60 20	- do. -	Key # 2	F	"	●	●		
"	NB 50 60 30	- do. -	Key # 3	F#	"	●	●		
"	NB 50 60 40	- do. -	Key # 4	G	"	●	●		
"	NB 50 60 50	- do. -	Key # 5	G#	"	●	●		
"	NB 50 60 60	- do. -	Key # 6	A	"	●	●		
"	NB 50 60 70	- do. -	Key # 7	A#	"	●	●		
"	NB 50 60 80	- do. -	Key # 8	B	"	●	●		
"	NB 50 60 90	- do. -	Key # 9	C	"	●	●		
"	NB 50 61 00	- do. -	Key # 10	C#	"	●	●		
"	NB 50 61 10	- do. -	Key # 11	D	"	●	●		
"	NB 50 61 20	- do. -	Key # 12	D#	"	●	●		
"	NB 50 61 30	- do. -	Key # 13	E	"	●	●		
"	NB 50 61 40	- do. -	Key # 14	F	"	●	●		
"	NB 50 61 50	- do. -	Key # 15	F#	"	●	●		
"	NB 50 61 60	- do. -	Key # 16	G	"	●	●		
"	NB 50 61 70	- do. -	Key # 17	G#	"	●	●		
"	NB 50 61 80	- do. -	Key # 18	A	"	●	●		
"	NB 50 61 90	- do. -	Key # 19	A#	"	●	●		
"	NB 50 62 00	- do. -	Key # 20	B	"	●	●		
"	NB 50 62 10	- do. -	Key # 21	C	"	●	●		
"	NB 50 62 20	- do. -	Key # 22	C#	"	●	●		
"	NB 50 62 30	- do. -	Key # 23	D	"	●	●		
"	NB 50 62 40	- do. -	Key # 24	D#	"	●	●		
"	NB 50 62 50	- do. -	Key # 25	E	"	●	●		
"	NB 50 62 60	- do. -	Key # 26	F	"	●	●		
"	NB 50 62 70	- do. -	Key # 27	F#	"	●	●		
"	NB 50 62 80	- do. -	Key # 28	G	"	●	●		
"	NB 50 62 90	- do. -	Key # 29	G#	"	●	●		
"	NB 50 63 00	- do. -	Key # 30	A	"	●	●		
"	NB 50 63 10	- do. -	Key # 31	A#	"	●	●		
"	NB 50 63 20	- do. -	Key # 32	B	"	●	●		
"	NB 50 63 30	- do. -	Key # 33	C	"	●	●		
"	NB 50 63 40	- do. -	Key # 34	C#	"	●	●		
"	NB 50 63 50	- do. -	Key # 35	D	"	●	●		
"	NB 50 63 60	- do. -	Key # 36	D#	"	●	●		
"	NB 50 63 70	- do. -	Key # 37	E	"	●	●		
"	NB 50 63 80	- do. -	Key # 38	F	"	●	●		
"	NB 50 63 90	- do. -	Key # 39	F#	"	●	●		

Ref. No.	Part No.	Description	部 品 名	CP-70	CP-70B	CP-80		
11	NB 50 64 00	Damper Head Assy	Key # 40 G ダンパーヘッド Assy	●	●			
"	NB 50 64 10	- do. -	Key # 41 G# "	●	●			
"	NB 50 64 20	- do. -	Key # 42 A "	●	●			
"	NB 50 64 30	- do. -	Key # 43 A# "	●	●			
"	NB 50 64 40	- do. -	Key # 44 B "	●	●			
"	NB 50 64 50	- do. -	Key # 45 C "	●	●			
"	NB 50 64 60	- do. -	Key # 46 C# "	●	●			
"	NB 50 64 70	- do. -	Key # 47 D "	●	●			
"	NB 50 64 80	- do. -	Key # 48 D# "	●	●			
"	NB 50 64 90	- do. -	Key # 49 E "	●	●			
"	NB 50 65 00	- do. -	Key # 50 F "	●	●			
"	NB 50 65 10	- do. -	Key # 51 F# "	●	●			
"	NB 50 65 20	- do. -	Key # 52 G "	●	●			
"	NB 50 65 30	- do. -	Key # 53 G# "	●	●			
"	NB 50 65 40	- do. -	Key # 54 A "	●	●			
"	NB 50 65 50	- do. -	Key # 55 A# "	●	●			
"	NB 50 65 60	- do. -	Key # 56 B "	●	●			
"	NB 50 65 70	- do. -	Key # 57 C "	●	●			
"	NB 50 65 80	- do. -	Key # 58 C# "	●	●			
"	NB 50 65 90	- do. -	Key # 59 D "	●	●			
"	NB 50 66 00	- do. -	Key # 60 D# "	●	●			
"	NB 50 66 10	- do. -	Key # 61 E "	●	●			
"	NB 50 66 20	- do. -	Key # 62 F "	●	●			
"	NB 50 66 30	- do. -	Key # 63 F# "	●	●			
"	NB 50 66 40	- do. -	Key # 64 G "	●	●			
"	NB 50 66 50	- do. -	Key # 65 G# "	●	●			
"	NB 50 66 60	- do. -	Key # 66 A "	●	●			
"	NB 50 90 10	- do. -	Key # 1 A "			●		
"	NB 50 90 20	- do. -	Key # 2 A# "			●		
"	NB 50 90 30	- do. -	Key # 3 B "			●		
"	NB 50 90 40	- do. -	Key # 4 C "			●		
"	NB 50 90 50	- do. -	Key # 5 C# "			●		
"	NB 50 90 60	- do. -	Key # 6 D "			●		
"	NB 50 90 70	- do. -	Key # 7 D# "			●		
"	NB 50 90 80	- do. -	Key # 8 E "			●		
"	NB 50 90 90	- do. -	Key # 9 F "			●		
"	NB 50 91 00	- do. -	Key # 10 F# "			●		
"	NB 50 91 10	- do. -	Key # 11 G "			●		
"	NB 50 91 20	- do. -	Key # 12 G# "			●		
"	NB 50 91 30	- do. -	Key # 13 A "			●		
"	NB 50 91 40	- do. -	Key # 14 A# "			●		
"	NB 50 91 50	- do. -	Key # 15 B "			●		
"	NB 50 91 60	- do. -	Key # 16 C "			●		
"	NB 50 91 70	- do. -	Key # 17 C# "			●		
"	NB 50 91 80	- do. -	Key # 18 D "			●		
"	NB 50 91 90	- do. -	Key # 19 D# "			●		
"	NB 50 92 00	- do. -	Key # 20 E "			●		
"	NB 50 92 10	- do. -	Key # 21 F "			●		
"	NB 50 92 20	- do. -	Key # 22 F# "			●		
"	NB 50 92 30	- do. -	Key # 23 G "			●		
"	NB 50 92 40	- do. -	Key # 24 G# "			●		
"	NB 50 92 50	- do. -	Key # 25 A "			●		
"	NB 50 92 60	- do. -	Key # 26 A# "			●		

10. Hammer Assy, Whippen Assy (ハンマー, サポート Assy)



11. Key Assy (鍵盤 Assy)

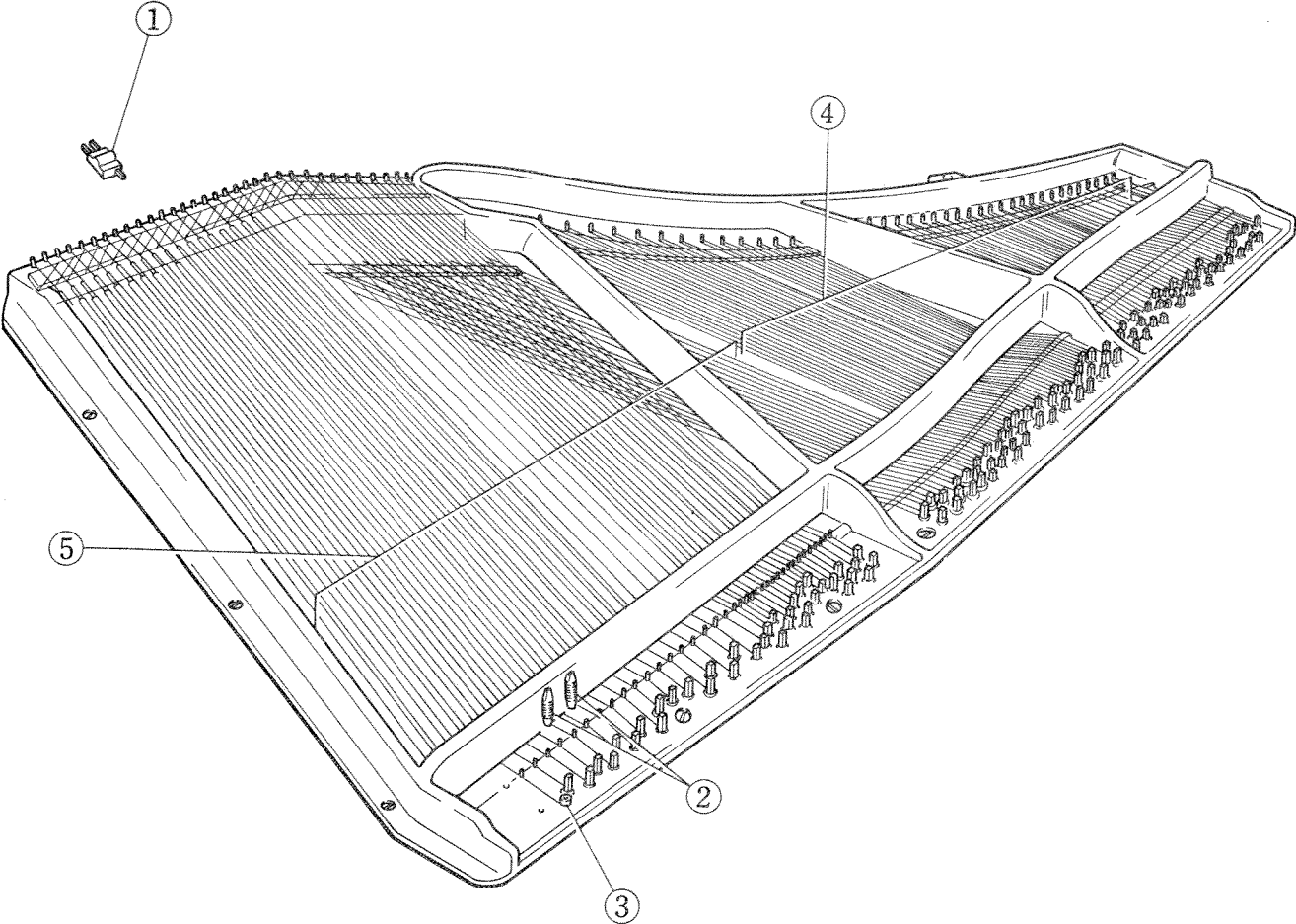


Ref. No.	Part No.	Description	部 品 名	CP-70	CP-70B	CP-80		
1	CB 95:01:80	White Key Top (Octave)	C, D, E, F, G, A, B	白 鍵 上 面 オクターブ	●	●	●	
2	CB 95:01:90	— do. — (Semi-Octave)	A', B, C' (E')	〃 セミオクターブ	●	●	●	
3	CB 95:02:00	White Key Front		白 鍵 前 面	●	●	●	
4	CX 50:00:40	Black Key Top		黒 鍵	●	●	●	
5	CD 06:01:30	Cloth Punching	Front	ク ロ ス バ ン チ ン グ	●	●	●	
6	CD 90:10:40	— do. —	Barance	〃	●	●	●	
7	NX 50:10:10	Key Assy	Key # 1 E	鍵 盤 Assy	●	●		
〃	NX 50:10:20	— do. —	Key # 2 F	〃	●	●		
〃	NX 50:10:30	— do. —	Key # 3 F#	〃	●	●		
〃	NX 50:10:40	— do. —	Key # 4 G	〃	●	●		
〃	NX 50:10:50	— do. —	Key # 5 G#	〃	●	●		
〃	NX 50:10:60	— do. —	Key # 6 A	〃	●	●		
〃	NX 50:10:70	— do. —	Key # 7 A#	〃	●	●		
〃	NX 50:10:80	— do. —	Key # 8 B	〃	●	●		
〃	NX 50:10:90	— do. —	Key # 9 C	〃	●	●		
〃	NX 50:11:00	— do. —	Key # 10 C#	〃	●	●		
〃	NX 50:11:10	— do. —	Key # 11 D	〃	●	●		
〃	NX 50:11:20	— do. —	Key # 12 D#	〃	●	●		
〃	NX 50:11:30	— do. —	Key # 13 E	〃	●	●		
〃	NX 50:11:40	— do. —	Key # 14 F	〃	●	●		
〃	NX 50:11:50	— do. —	Key # 15 F#	〃	●	●		
〃	NX 50:11:60	— do. —	Key # 16 G	〃	●	●		
〃	NX 50:11:70	— do. —	Key # 17 G#	〃	●	●		
〃	NX 50:11:80	— do. —	Key # 18 A	〃	●	●		
〃	NX 50:11:90	— do. —	Key # 19 A#	〃	●	●		
〃	NX 50:12:00	— do. —	Key # 20 B	〃	●	●		
〃	NX 50:12:10	— do. —	Key # 21 C	〃	●	●		
〃	NX 50:12:20	— do. —	Key # 22 C#	〃	●	●		
〃	NX 50:12:30	— do. —	Key # 23 D	〃	●	●		
〃	NX 50:12:40	— do. —	Key # 24 D#	〃	●	●		
〃	NX 50:12:50	— do. —	Key # 25 E	〃	●	●		
〃	NX 50:12:60	— do. —	Key # 26 F	〃	●	●		
〃	NX 50:12:70	— do. —	Key # 27 F#	〃	●	●		
〃	NX 50:12:80	— do. —	Key # 28 G	〃	●	●		
〃	NX 50:12:90	— do. —	Key # 29 G#	〃	●	●		
〃	NX 50:13:00	— do. —	Key # 30 A	〃	●	●		
〃	NX 50:13:10	— do. —	Key # 31 A#	〃	●	●		
〃	NX 50:13:20	— do. —	Key # 32 B	〃	●	●		
〃	NX 50:13:30	— do. —	Key # 33 C	〃	●	●		
〃	NX 50:13:40	— do. —	Key # 34 C#	〃	●	●		
〃	NX 50:13:50	— do. —	Key # 35 D	〃	●	●		
〃	NX 50:13:60	— do. —	Key # 36 D#	〃	●	●		
〃	NX 50:13:70	— do. —	Key # 37 E	〃	●	●		
〃	NX 50:13:80	— do. —	Key # 38 F	〃	●	●		
〃	NX 50:13:90	— do. —	Key # 39 F#	〃	●	●		
〃	NX 50:14:00	— do. —	Key # 40 G	〃	●	●		
〃	NX 50:14:10	— do. —	Key # 41 G#	〃	●	●		
〃	NX 50:14:20	— do. —	Key # 42 A	〃	●	●		
〃	NX 50:14:30	— do. —	Key # 43 A#	〃	●	●		
〃	NX 50:14:40	— do. —	Key # 44 B	〃	●	●		
〃	NX 50:14:50	— do. —	Key # 45 C	〃	●	●		
〃	NX 50:14:60	— do. —	Key # 46 C#	〃	●	●		
〃	NX 50:14:70	— do. —	Key # 47 D	〃	●	●		
〃	NX 50:14:80	— do. —	Key # 48 D#	〃	●	●		

Ref. No.	Part No.	Description	部 品 名	CP-70	CP-70B	CP-80		
7	NX 50 14 90	Key Assy	Key # 49 E 鍵 盤 Assy	*	*			
"	NX 50 15 00	- do. -	Key # 50 F "	*	*			
"	NX 50 15 10	- do. -	Key # 51 F# "	*	*			
"	NX 50 15 20	- do. -	Key # 52 G "	*	*			
"	NX 50 15 30	- do. -	Key # 53 G# "	*	*			
"	NX 50 15 40	- do. -	Key # 54 A "	*	*			
"	NX 50 15 50	- do. -	Key # 55 A# "	*	*			
"	NX 50 15 60	- do. -	Key # 56 B "	*	*			
"	NX 50 15 70	- do. -	Key # 57 C "	*	*			
"	NX 50 15 80	- do. -	Key # 58 C# "	*	*			
"	NX 50 15 90	- do. -	Key # 59 D "	*	*			
"	NX 50 16 00	- do. -	Key # 60 D# "	*	*			
"	NX 50 16 10	- do. -	Key # 61 E "	*	*			
"	NX 50 16 20	- do. -	Key # 62 F "	*	*			
"	NX 50 16 30	- do. -	Key # 63 F# "	*	*			
"	NX 50 16 40	- do. -	Key # 64 G "	*	*			
"	NX 50 16 50	- do. -	Key # 65 G# "	*	*			
"	NX 50 16 60	- do. -	Key # 66 A "	*	*			
"	NX 50 16 70	- do. -	Key # 67 A# "	*	*			
"	NX 50 16 80	- do. -	Key # 68 B "	*	*			
"	NX 50 16 90	- do. -	Key # 69 C "	*	*			
"	NX 50 17 00	- do. -	Key # 70 C# "	*	*			
"	NX 50 17 10	- do. -	Key # 71 D "	*	*			
"	NX 50 17 20	- do. -	Key # 72 D# "	*	*			
"	NX 50 17 30	- do. -	Key # 73 E "	*	*			
"	NX 50 00 10	- do. -	Key # 1 A "			*		
"	NX 50 00 20	- do. -	Key # 2 A# "			*		
"	NX 50 00 30	- do. -	Key # 3 B "			*		
"	NX 50 00 40	- do. -	Key # 4 C "			*		
"	NX 50 00 50	- do. -	Key # 5 C# "			*		
"	NX 50 00 60	- do. -	Key # 6 D "			*		
"	NX 50 00 70	- do. -	Key # 7 D# "			*		
"	NX 50 00 80	- do. -	Key # 8 E "			*		
"	NX 50 00 90	- do. -	Key # 9 F "			*		
"	NX 50 01 00	- do. -	Key # 10 F# "			*		
"	NX 50 01 10	- do. -	Key # 11 G "			*		
"	NX 50 01 20	- do. -	Key # 12 G# "			*		
"	NX 50 01 30	- do. -	Key # 13 A "			*		
"	NX 50 01 40	- do. -	Key # 14 A# "			*		
"	NX 50 01 50	- do. -	Key # 15 B "			*		
"	NX 50 01 60	- do. -	Key # 16 C "			*		
"	NX 50 01 70	- do. -	Key # 17 C# "			*		
"	NX 50 01 80	- do. -	Key # 18 D "			*		
"	NX 50 01 90	- do. -	Key # 19 D# "			*		
"	NX 50 02 00	- do. -	Key # 20 E "			*		
"	NX 50 02 10	- do. -	Key # 21 F "			*		
"	NX 50 02 20	- do. -	Key # 22 F# "			*		
"	NX 50 02 30	- do. -	Key # 23 G "			*		
"	NX 50 02 40	- do. -	Key # 24 G# "			*		
"	NX 50 02 50	- do. -	Key # 25 A "			*		
"	NX 50 02 60	- do. -	Key # 26 A# "			*		
"	NX 50 02 70	- do. -	Key # 27 B "			*		
"	NX 50 02 80	- do. -	Key # 28 C "			*		
"	NX 50 02 90	- do. -	Key # 29 C# "			*		
"	NX 50 03 00	- do. -	Key # 30 D "			*		
"	NX 50 03 10	- do. -	Key # 31 D# "			*		
"	NX 50 03 20	- do. -	Key # 32 E "			*		

Ref. No.	Part No.				Description	部 品 名	CP-70	CP-70B	CP-80		
7	NX	50	03	30	Key Assy	Key # 33 F 鍵 盤 Ass'y			●		
"	NX	50	03	40	- do. -	Key # 34 F# "			●		
"	NX	50	03	50	- do. -	Key # 35 G "			●		
"	NX	50	03	60	- do. -	Key # 36 G# "			●		
"	NX	50	03	70	- do. -	Key # 37 A "			●		
"	NX	50	03	80	- do. -	Key # 38 A# "			●		
"	NX	50	03	90	- do. -	Key # 39 B "			●		
"	NX	50	04	00	- do. -	Key # 40 C "			●		
"	NX	50	04	10	- do. -	Key # 41 C# "			●		
"	NX	50	04	20	- do. -	Key # 42 D "			●		
"	NX	50	04	30	- do. -	Key # 43 D# "			●		
"	NX	50	04	40	- do. -	Key # 44 E "			●		
"	NX	50	04	50	- do. -	Key # 45 F "			●		
"	NX	50	04	60	- do. -	Key # 46 F# "			●		
"	NX	50	04	70	- do. -	Key # 47 G "			●		
"	NX	50	04	80	- do. -	Key # 48 G# "			●		
"	NX	50	04	90	- do. -	Key # 49 A "			●		
"	NX	50	05	00	- do. -	Key # 50 A# "			●		
"	NX	50	05	10	- do. -	Key # 51 B "			●		
"	NX	50	05	20	- do. -	Key # 52 C "			●		
"	NX	50	05	30	- do. -	Key # 53 C# "			●		
"	NX	50	05	40	- do. -	Key # 54 D "			●		
"	NX	50	05	50	- do. -	Key # 55 D# "			●		
"	NX	50	05	60	- do. -	Key # 56 E "			●		
"	NX	50	05	70	- do. -	Key # 57 F "			●		
"	NX	50	05	80	- do. -	Key # 58 F# "			●		
"	NX	50	05	90	- do. -	Key # 59 G "			●		
"	NX	50	06	00	- do. -	Key # 60 G# "			●		
"	NX	50	06	10	- do. -	Key # 61 A "			●		
"	NX	50	06	20	- do. -	Key # 62 A# "			●		
"	NX	50	06	30	- do. -	Key # 63 B "			●		
"	NX	50	06	40	- do. -	Key # 64 C "			●		
"	NX	50	06	50	- do. -	Key # 65 C# "			●		
"	NX	50	06	60	- do. -	Key # 66 D "			●		
"	NX	50	06	70	- do. -	Key # 67 D# "			●		
"	NX	50	06	80	- do. -	Key # 68 E "			●		
"	NX	50	06	90	- do. -	Key # 69 F "			●		
"	NX	50	07	00	- do. -	Key # 70 F# "			●		
"	NX	50	07	10	- do. -	Key # 71 G "			●		
"	NX	50	07	20	- do. -	Key # 72 G# "			●		
"	NX	50	07	30	- do. -	Key # 73 A "			●		
"	NX	50	07	40	- do. -	Key # 74 A# "			●		
"	NX	50	07	50	- do. -	Key # 75 B "			●		
"	NX	50	07	60	- do. -	Key # 76 C "			●		
"	NX	50	07	70	- do. -	Key # 77 C# "			●		
"	NX	50	07	80	- do. -	Key # 78 D "			●		
"	NX	50	07	90	- do. -	Key # 79 D# "			●		
"	NX	50	08	00	- do. -	Key # 80 E "			●		
"	NX	50	08	10	- do. -	Key # 81 F "			●		
"	NX	50	08	20	- do. -	Key # 82 F# "			●		
"	NX	50	08	30	- do. -	Key # 83 G "			●		
"	NX	50	08	40	- do. -	Key # 84 G# "			●		
"	NX	50	08	50	- do. -	Key # 85 A "			●		
"	NX	50	08	60	- do. -	Key # 86 A# "			●		
"	NX	50	08	70	- do. -	Key # 87 B "			●		
"	NX	50	08	80	- do. -	Key # 88 C "			●		

12. Frame Section (フレーム部品)



Ref. No.	Part No.	Description	部 品 名	CP-70	CP-70B	CP-80		
1	BD:50:00:20	Piezoelectric Pickup	ピックアップユニット		●	●		
"	BD:50:05:10	- do. -	⇒ BD5000 20	●				
2	AA:50:17:50	Tuning Pin	#3 φ7.10 チューニング ピン	●	●	●		
"	AA:50:17:60	- do. -	#4 φ7.15	●	●	●		
"	AA:50:19:00	- do. -	#5 φ7.20	●	●	●		
"	AA:50:18:10	- do. -	#6 φ7.25	●	●	●		
3	DB:50:00:60	Tuning Pin Bushing	#1 6.0 m/m チューニングピンブッシュ	●	●	●		
"	DB:50:00:70	- do. -	#2 6.5	●	●	●		
"	DB:50:00:80	- do. -	#3 7.0	●	●	●		
"	DB:50:00:90	- do. -	#4 7.5	●	●	●		
"	DB:50:01:00	- do. -	#5 8.0	●	●	●		
"	DB:50:01:10	- do. -	#6 8.5	●	●	●		
"	DB:50:01:20	- do. -	#7 9.0	●	●	●		
4	MV:00:00:30	Music Wire #18	CP-80 43K 芯 線			●		
"	MV:00:00:40	- do. - #17	CP-70, 70B 38K ~ 44K 44K ~ 51K	●	●	●		
"	MV:00:00:50	- do. - #16 1/2	45K ~ 50K 52K ~ 57K	●	●	●		
"	MV:00:00:60	- do. - #16	51K ~ 56K 58K ~ 63K	●	●	●		
"	MV:00:00:70	- do. - #15 1/2	57K ~ 64K 64K ~ 71K	●	●	●		
"	MV:00:00:80	- do. - #15	65K ~ 69K 72K ~ 76K	●	●	●		
"	MV:00:00:90	- do. - #14 1/2	77K ~ 80K			●		
"	MV:00:01:00	- do. - #14	70K ~ 73K 81K ~ 84K	●	●	●		
"	MV:00:01:10	- do. - #13 1/2	85K ~ 88K			●		
5	NB:50:08:80	Bass String	Complete Set 巻 線 1 台分	●				
"	NX:50:28:90	- do. -	- do. -		●			
"	NX:50:29:00	- do. -	- do. -			●		
"	NB:50:08:90	- do. -	Key # 1 E 巻 線	●				
"	NB:50:09:00	- do. -	Key # 2 F	●				
"	NB:50:09:10	- do. -	Key # 3 F#	●				
"	NB:50:09:20	- do. -	Key # 4 G	●				
"	NB:50:09:30	- do. -	Key # 5 G#	●				
"	NB:50:09:40	- do. -	Key # 6 A	●				
"	NB:50:09:50	- do. -	Key # 7 A#	●				
"	NB:50:09:60	- do. -	Key # 8 B	●				
"	NB:50:09:70	- do. -	Key # 9 C	●				
"	NB:50:09:80	- do. -	Key # 10 C#	●				
"	NB:50:09:90	- do. -	Key # 11 D	●				
"	NB:50:10:00	- do. -	Key # 12 D#	●				
"	NB:50:10:10	- do. -	Key # 13 E	●				
"	NB:50:10:20	- do. -	Key # 14 F	●				
"	NB:50:10:30	- do. -	Key # 15 F#	●				
"	NB:50:10:40	- do. -	Key #16 G (Left)	●				
"	NB:50:10:50	- do. -	Key #16 G (Right)	●				
"	NB:50:10:60	- do. -	Key #17 G#(Left)	●				
"	NB:50:10:70	- do. -	Key #17 G#(Right)	●				
"	NB:50:10:80	- do. -	Key #18 A (Left)	●				
"	NB:50:10:90	- do. -	Key #18 A (Right)	●				
"	NB:50:11:00	- do. -	Key #19 A#(Left)	●				
"	NB:50:11:10	- do. -	Key #19 A#(Right)	●				
"	NB:50:11:20	- do. -	Key #20 B (Left)	●				
"	NB:50:11:30	- do. -	Key #20 B (Right)	●				
"	NB:50:11:40	- do. -	Key #21 C (Left)	●				
"	NB:50:11:50	- do. -	Key #21 C (Right)	●				
"	NB:50:11:60	- do. -	Key #22 C#(Left)	●				
"	NB:50:11:70	- do. -	Key #22 C#(Right)	●				
"	NB:50:11:80	- do. -	Key #23 D (Left)	●				

Ref. No.	Part No.	Description	部 品 名	CP-70	CP-70B	CP-80		
5	NB 50 11 90	Bass String	Key # 23 D (Right) 巻 線	●				
"	NB 50 12 00	- do. -	Key # 24 D# (Left) "	●				
"	NB 50 12 10	- do. -	Key # 24 D# (Right) "	●				
"	NB 50 12 20	- do. -	Key # 25 E (Left) "	●				
"	NB 50 12 30	- do. -	Key # 25 E (Right) "	●				
"	NB 50 12 40	- do. -	Key # 26 F (Left) "	●				
"	NB 50 12 50	- do. -	Key # 26 F (Right) "	●				
"	NB 50 12 60	- do. -	Key # 27 F# (Left) "	●				
"	NB 50 12 70	- do. -	Key # 27 F# (Right) "	●				
"	NB 50 12 80	- do. -	Key # 28 G (Left) "	●				
"	NB 50 12 90	- do. -	Key # 28 G (Right) "	●				
"	NB 50 13 00	- do. -	Key # 29 G# (Left) "	●				
"	NB 50 13 10	- do. -	Key # 29 G# (Right) "	●				
"	NB 50 13 20	- do. -	Key # 30 A (Left) "	●				
"	NB 50 13 30	- do. -	Key # 30 A (Right) "	●				
"	NB 50 13 40	- do. -	Key # 31 A# (Left) "	●				
"	NB 50 13 50	- do. -	Key # 31 A# (Right) "	●				
"	NB 50 13 60	- do. -	Key # 32 B (Left) "	●				
"	NB 50 13 70	- do. -	Key # 32 B (Right) "	●				
"	NB 50 13 80	- do. -	Key # 33 C (Left) "	●				
"	NB 50 13 90	- do. -	Key # 33 C (Right) "	●				
"	NB 50 14 00	- do. -	Key # 34 C# (Left) "	●				
"	NB 50 14 10	- do. -	Key # 34 C# (Right) "	●				
"	NB 50 14 20	- do. -	Key # 35 D (Left) "	●				
"	NB 50 14 30	- do. -	Key # 35 D (Right) "	●				
"	NB 50 14 40	- do. -	Key # 36 D# (Left) "	●				
"	NB 50 14 50	- do. -	Key # 36 D# (Right) "	●				
"	NB 50 14 60	- do. -	Key # 37 E (Left) "	●				
"	NB 50 14 70	- do. -	Key # 37 E (Right) "	●				
"	NB 50 40 30	- do. -	Key # 1 E "		●			
"	NB 50 40 40	- do. -	Key # 2 F "		●			
"	NB 50 40 50	- do. -	Key # 3 F# "		●			
"	NB 50 40 60	- do. -	Key # 4 G "		●			
"	NB 50 40 70	- do. -	Key # 5 G# "		●			
"	NB 50 40 80	- do. -	Key # 6 A "		●			
"	NB 50 40 90	- do. -	Key # 7 A# "		●			
"	NB 50 41 00	- do. -	Key # 8 B "		●			
"	NB 50 41 10	- do. -	Key # 9 C "		●			
"	NB 50 41 20	- do. -	Key # 10 C# "		●			
"	NB 50 41 30	- do. -	Key # 11 D "		●			
"	NB 50 41 40	- do. -	Key # 12 D# "		●			
"	NB 50 41 50	- do. -	Key # 13 E "		●			
"	NB 50 41 60	- do. -	Key # 14 F "		●			
"	NB 50 41 70	- do. -	Key # 15 F# "		●			
"	NB 50 41 80	- do. -	Key # 16 G (Left) "		●			
"	NB 50 41 90	- do. -	Key # 16 G (Right) "		●			
"	NB 50 42 00	- do. -	Key # 17 G# (Left) "		●			
"	NB 50 42 10	- do. -	Key # 17 G# (Right) "		●			
"	NB 50 42 20	- do. -	Key # 18 A (Left) "		●			
"	NB 50 42 30	- do. -	Key # 18 A (Right) "		●			
"	NB 50 42 40	- do. -	Key # 19 A# (Left) "		●			
"	NB 50 42 50	- do. -	Key # 19 A# (Right) "		●			
"	NB 50 42 60	- do. -	Key # 20 B (Left) "		●			

Ref. No.	Part No.	Description	部 品 名	CP-70	CP-70B	CP-80		
5	NB 50 42 70	Bass String	Key # 20 B (Right) 卷 線		●			
"	NB 50 42 80	— do. —	Key # 21 C (Left) "		●			
"	NB 50 42 90	— do. —	Key # 21 C (Right) "		●			
"	NB 50 43 00	— do. —	Key # 22 C# (Left) "		●			
"	NB 50 43 10	— do. —	Key # 22 C# (Right) "		●			
"	NB 50 43 20	— do. —	Key # 23 D (Left) "		●			
"	NB 50 43 30	— do. —	Key # 23 D (Right) "		●			
"	NB 50 43 40	— do. —	Key # 24 D# (Left) "		●			
"	NB 50 43 50	— do. —	Key # 24 D# (Right) "		●			
"	NB 50 43 60	— do. —	Key # 25 E (Left) "		●			
"	NB 50 43 70	— do. —	Key # 25 E (Right) "		●			
"	NB 50 43 80	— do. —	Key # 26 F (Left) "		●			
"	NB 50 43 90	— do. —	Key # 26 F (Right) "		●			
"	NB 50 44 00	— do. —	Key # 27 F# (Left) "		●			
"	NB 50 44 10	— do. —	Key # 27 F# (Right) "		●			
"	NB 50 44 20	— do. —	Key # 28 G (Left) "		●			
"	NB 50 44 30	— do. —	Key # 28 G (Right) "		●			
"	NB 50 44 40	— do. —	Key # 29 G# (Left) "		●			
"	NB 50 44 50	— do. —	Key # 29 G# (Right) "		●			
"	NB 50 44 60	— do. —	Key # 30 A (Left) "		●			
"	NB 50 44 70	— do. —	Key # 30 A (Right) "		●			
"	NB 50 44 80	— do. —	Key # 31 A# (Left) "		●			
"	NB 50 44 90	— do. —	Key # 31 A# (Right) "		●			
"	NB 50 45 00	— do. —	Key # 32 B (Left) "		●			
"	NB 50 45 10	— do. —	Key # 32 B (Right) "		●			
"	NB 50 45 20	— do. —	Key # 33 C (Left) "		●			
"	NB 50 45 30	— do. —	Key # 33 C (Right) "		●			
"	NB 50 45 40	— do. —	Key # 34 C# (Left) "		●			
"	NB 50 45 50	— do. —	Key # 34 C# (Right) "		●			
"	NB 50 45 60	— do. —	Key # 35 D (Left) "		●			
"	NB 50 45 70	— do. —	Key # 35 D (Right) "		●			
"	NB 50 45 80	— do. —	Key # 36 D# (Left) "		●			
"	NB 50 45 90	— do. —	Key # 36 D# (Right) "		●			
"	NB 50 46 00	— do. —	Key # 37 E (Left) "		●			
"	NB 50 46 10	— do. —	Key # 37 E (Right) "		●			
"	NB 50 47 20	— do. —	Key # 1 A "			●		
"	NB 50 47 30	— do. —	Key # 2 A# "			●		
"	NB 50 47 40	— do. —	Key # 3 B "			●		
"	NB 50 47 50	— do. —	Key # 4 C "			●		
"	NB 50 47 60	— do. —	Key # 5 C# "			●		
"	NB 50 47 70	— do. —	Key # 6 D "			●		
"	NB 50 47 80	— do. —	Key # 7 D# "			●		
"	NB 50 47 90	— do. —	Key # 8 E "			●		
"	NB 50 48 00	— do. —	Key # 9 F "			●		
"	NB 50 48 10	— do. —	Key # 10 F# "			●		
"	NB 50 48 20	— do. —	Key # 11 G "			●		
"	NB 50 48 30	— do. —	Key # 12 G# "			●		
"	NB 50 48 40	— do. —	Key # 13 A "			●		
"	NB 50 48 50	— do. —	Key # 14 A# "			●		
"	NB 50 48 60	— do. —	Key # 15 B "			●		
"	NB 50 48 70	— do. —	Key # 16 C "			●		
"	NB 50 48 80	— do. —	Key # 17 C# "			●		
"	NB 50 48 90	— do. —	Key # 18 D "			●		

[illegible]



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