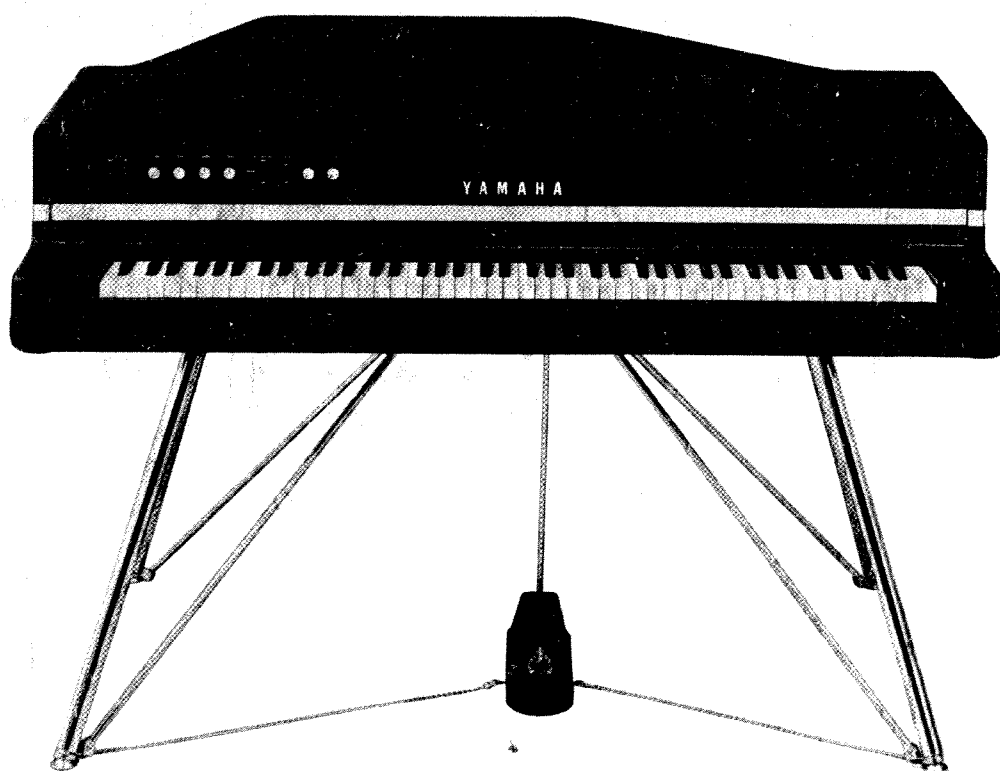




**YAMAHA**

**ELECTRIC GRAND**

**CP-80**



**SERVICE MANUAL**



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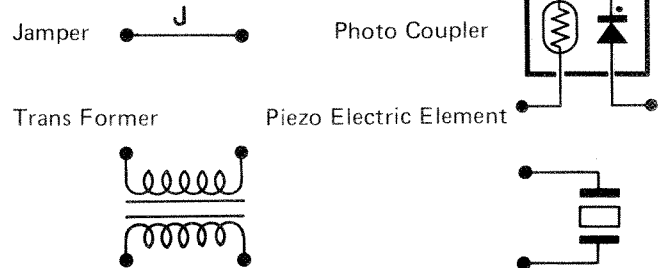
## ● GENERAL SPECIFICATIONS 仕様

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

Specifications subject to change without notice.

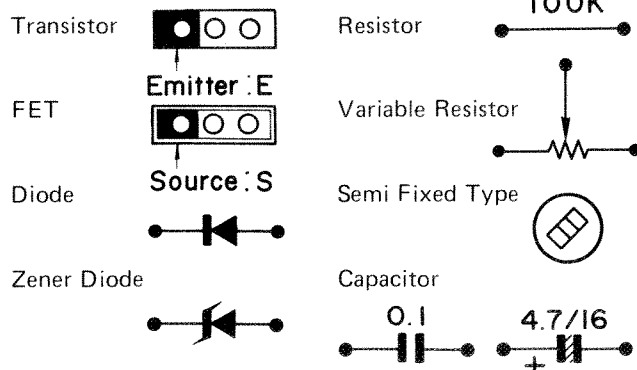
## ● CODING GUIDE サービスマニュアルを読む前に

### 1. IDENTIFICATION OF SIGNAL SYSTEM IN THE CIRCUITS SIGNAL



### 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.

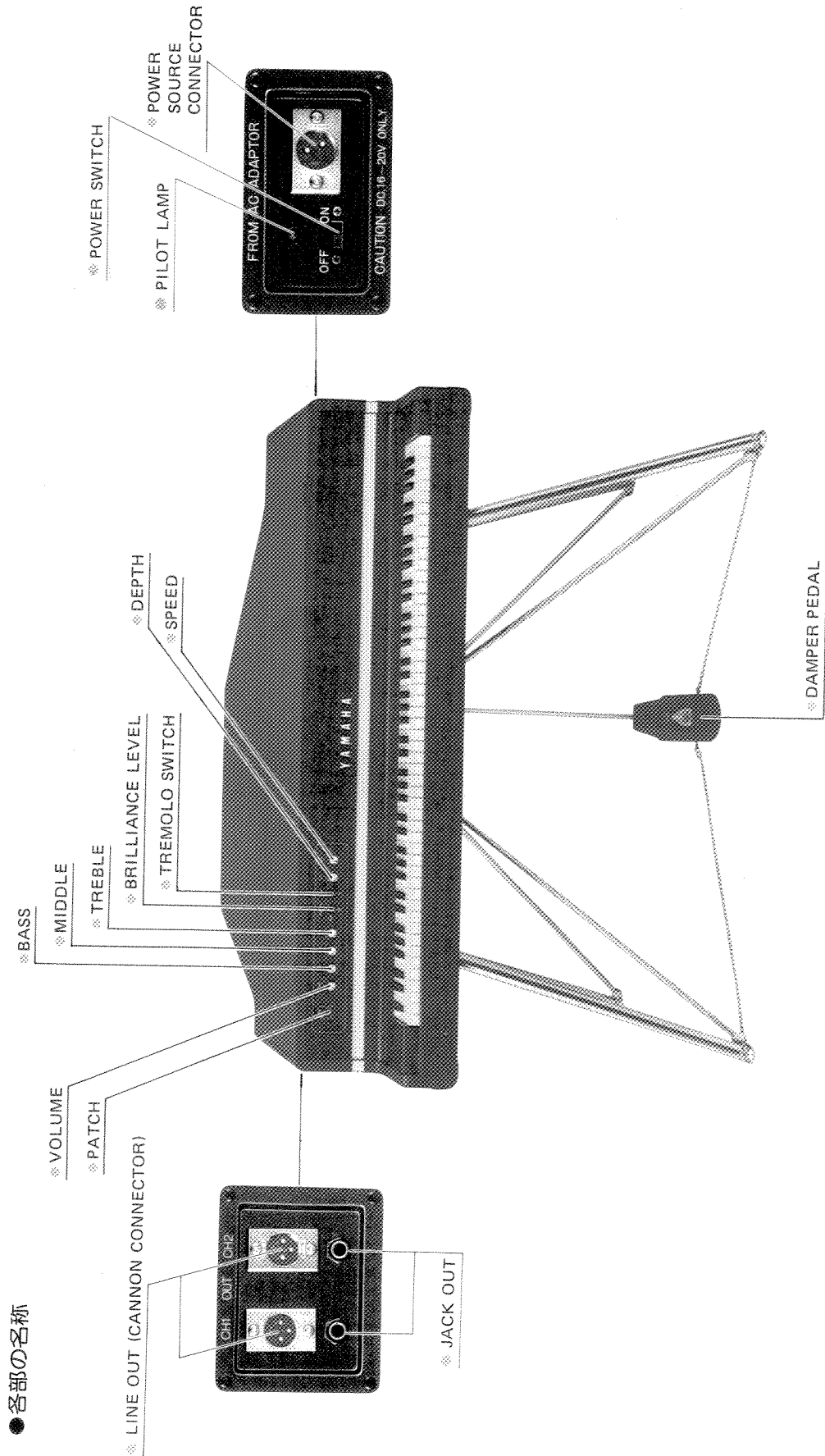


### 3. IDENTIFICATION OF WIRING MATERIALS

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

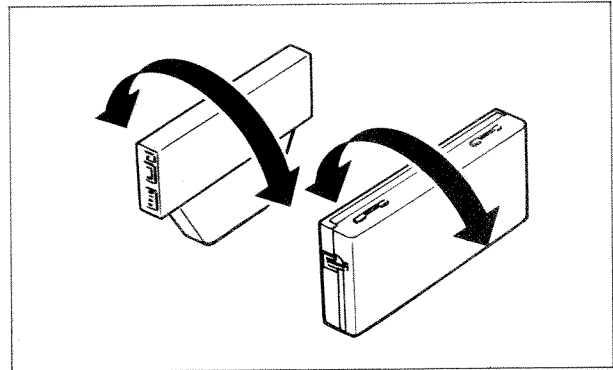


## ● ASSEMBLY PROCEDURES 組み立て手順

### ▼ 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.

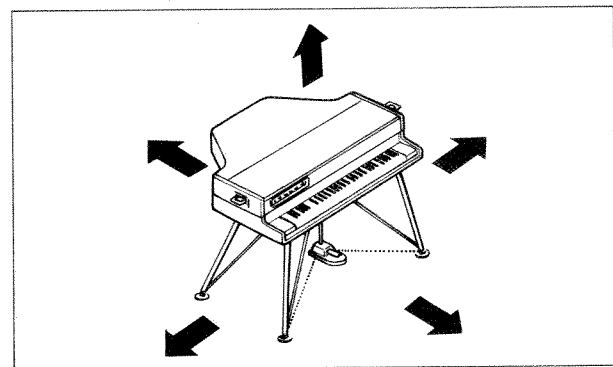
本機を分離し、立てたまま放置すると、転倒することがあり危険です。



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。

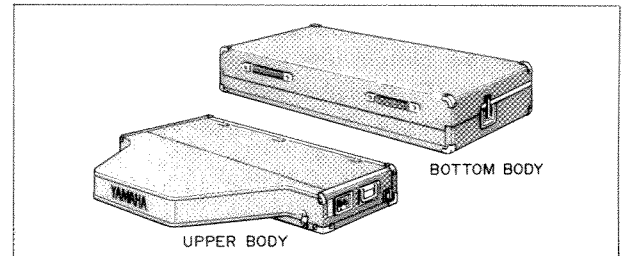
- \* When operating the model, make sure that you use an AC adaptor which is suitable for the power line voltage of your area.

#### 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.**

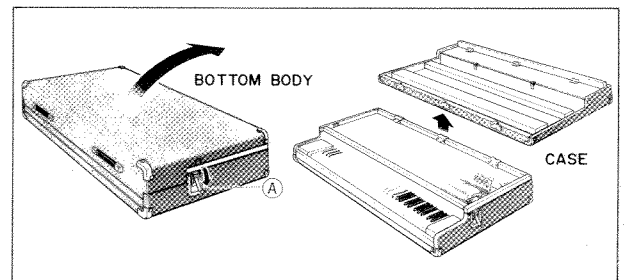
上・下本体の確認

**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掛け蝶番よりはずします。

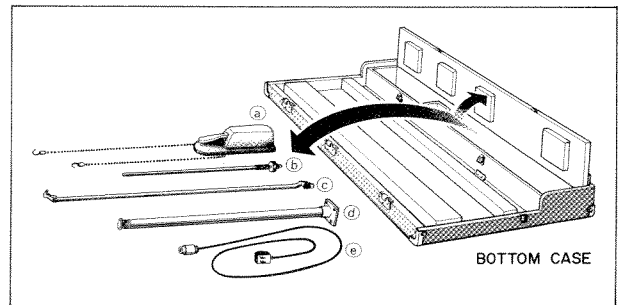
**3. REMOVING THE PART CONTAINED IN THE BOTTOM CASE.**

- (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

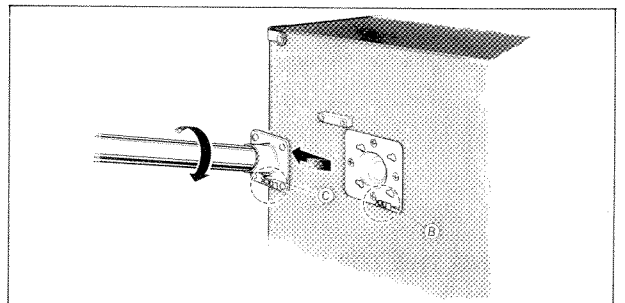
③脚ステー { ネジ付き×2 ④脚×4 ⑤専用AC  
                  { ネジ無し×2                     アダプター

**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

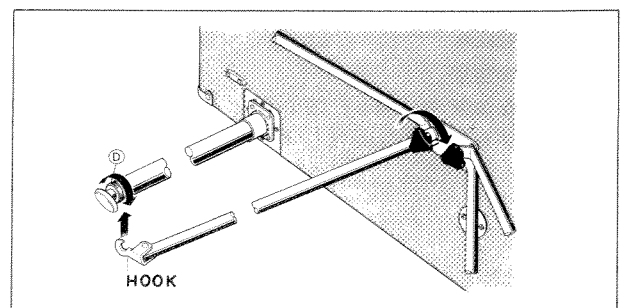
鍵盤側を上にて下本体を起こします。① Lock 方向に脚を差し込み、溝にスライドさせた後② Lock 方向に脚を廻ししっかり固定します。

**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①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。

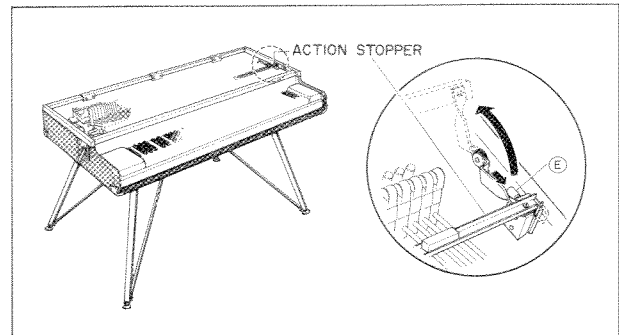


## 6. SETTING THE BOTTOM UNIT ON ITS FEET

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Ⓔ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。)

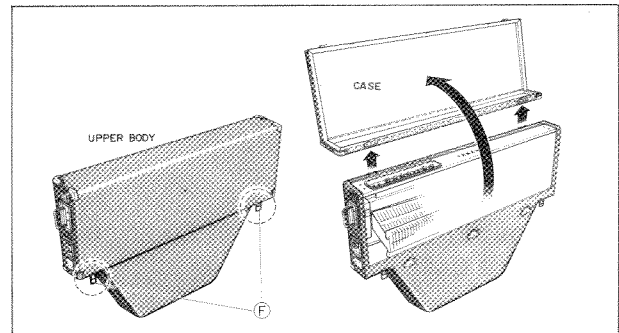


## 7. REMOVING THE TOP UNIT FROM THE CASE

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Ⓕ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みずします。

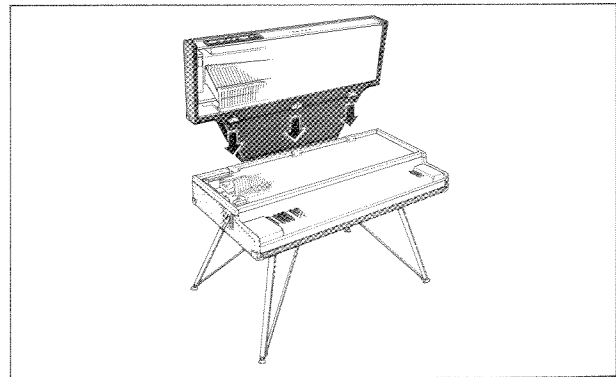


## 8. MOUNTING THE TOP UNIT

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付けます。

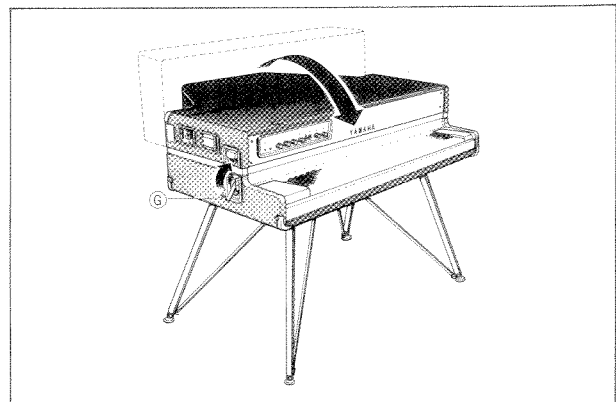


## 9. SECURING THE TOP UNIT

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Ⓖフックで上・下本体をしっかり固定します。

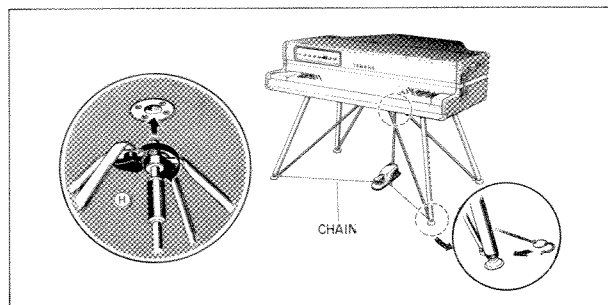




## 10. ATTACHING THE PEDAL

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.

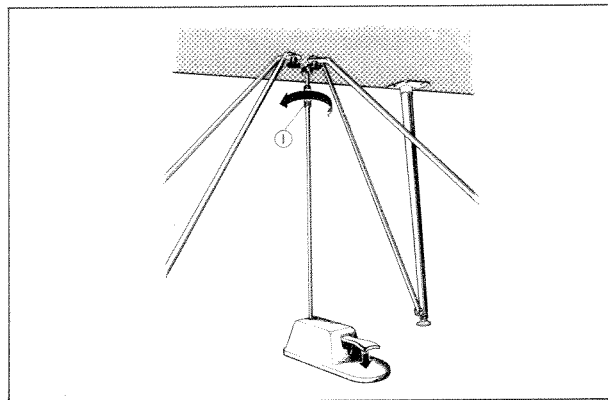
ペダルの取り付け  
ペダルに、ペダル突き上げ棒をしっかりと差し込んだ後、突き上げ棒をペダル穴にあわせ(H)リングで固定します。最後にチェーンを掛けてください。



## 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.)

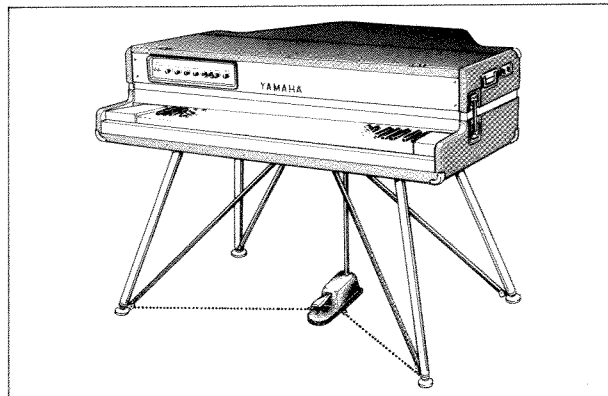
ペダル調整  
ペダルをこきざみに踏み、あそびがなくなるよう①リングで調整してください。(矢印方向に廻せばあそびは増え、反対方向でなくなってきます。)



## 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。)



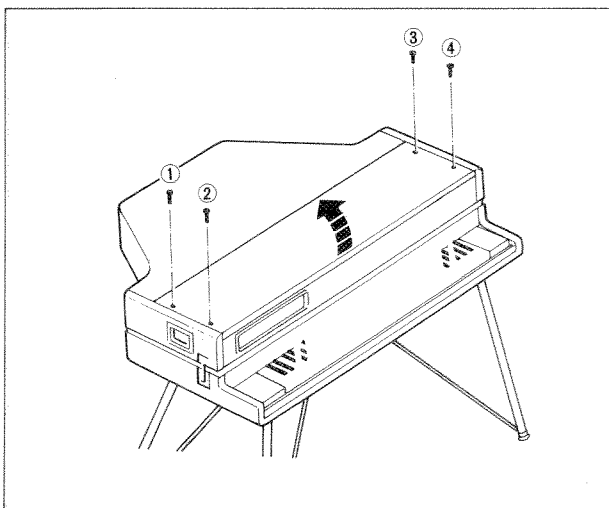
## ● DISASSEMBLY PROCEDURES 分解手順

### 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。

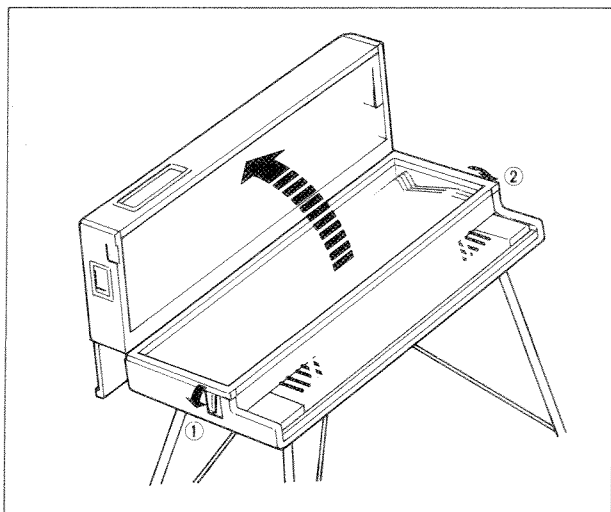


### 2. OPENING THE TOP UNIT

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。

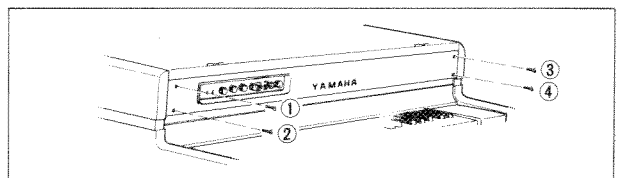


### 3. DETACHING THE CONTROL PANEL.

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。

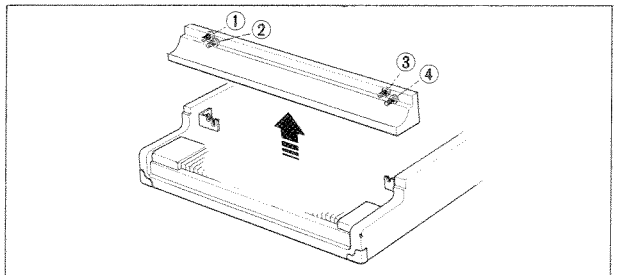


### 4. REMOVING THE ACTION

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

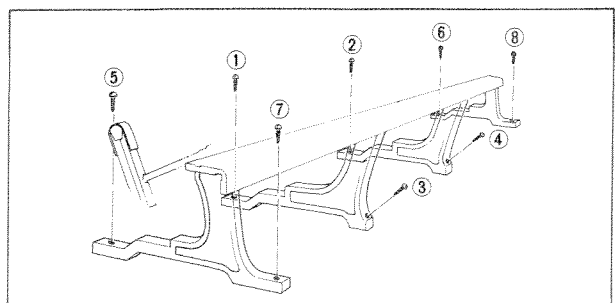
アクションのはずし方

①～④のスクリューを緩め、前板を上に取りはずします。



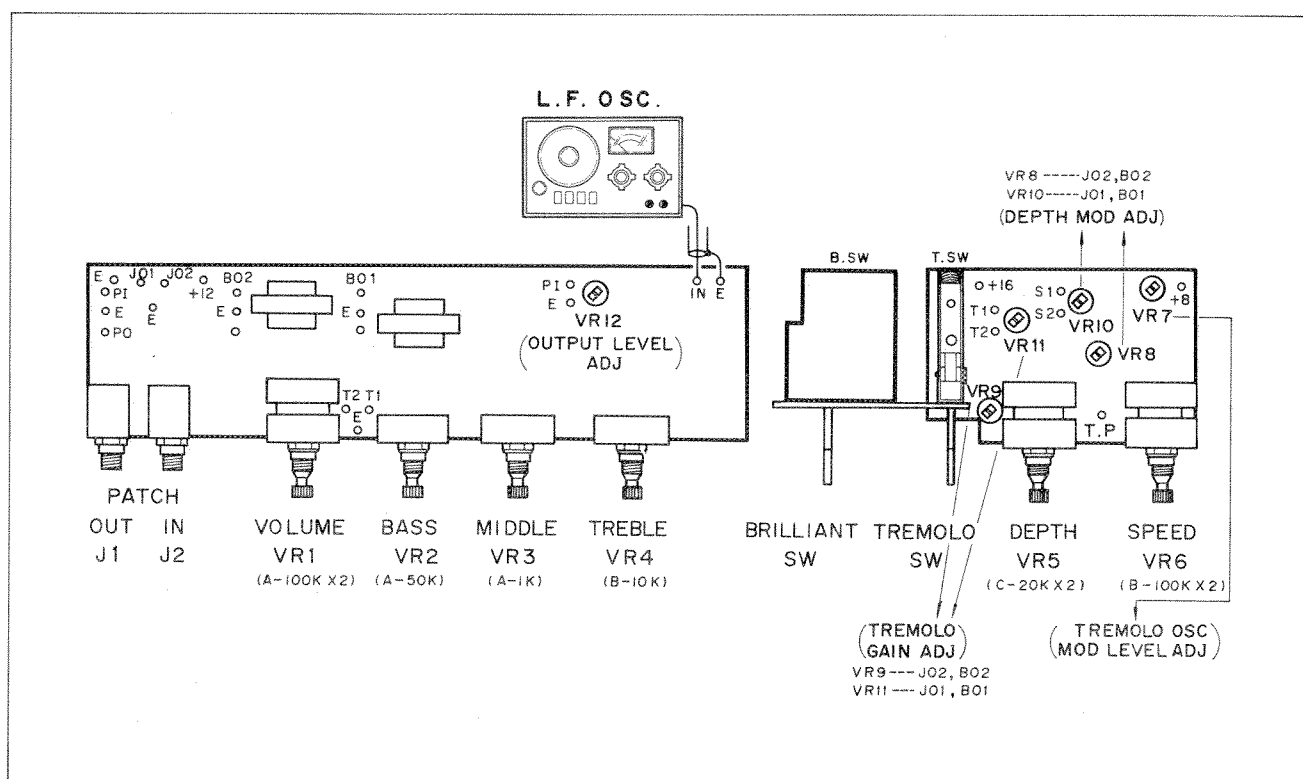
5. Next, remove the screws in order from (1) to (8). When attaching, tighten the screws in order from (8) to (1). (The removal of the action may affect the touch of the keyboard. Avoid this at all cost.)

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

1. 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、TREMOLO スイッチは OFF にセットしておきます。
2. Connect the low-frequency oscillator to IN terminal of the TR printed circuit board. Adjust VR12 (10KB) to obtain a  $-29.0 \pm 0.5$  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  $-29.0 \pm 0.5$  dBm の出力が得られるよう VR12 (10KB) で調整します。
3. 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。
4. Check that an output signal of  $-17.0 \pm 1.5$  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  $-19.0 \pm 1.5$  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  $-17.0 \pm 1.5$  dBm が得られることを確認します。また、B01、B02端子では  $-19.0 \pm 1.5$  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  $-34.0 \pm 1.5$  dBm.

BASS(VR2)ツマミを最小にし、J01に $-34.0 \pm 1.5$ 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  $-23.0 \pm 1.5$  dBm is obtained at the J01 and J02 terminals and also then an output of  $-23.0 \pm 1.5$  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 $-23.0 \pm 1.5$  dBm、またB01、B02端子では $-23.0 \pm 1.5$ dBmが得られることを確認します。

7. Check that the output at the J01 terminals is  $-35.5 \pm 1.5$  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 $-35.5 \pm 1.5$ 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  $-31 \pm 1$  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 $-31 \pm 1$  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  $-31.0 \pm 1.5$  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 $-31.0 \pm 1.5$ 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  $-29.5 \pm 1.5$  dBm is obtained when the frequency of the input signal is set to 5KHz.

Also check that an output of  $-24 \pm 1.5$  dBm is obtained when brilliance level switch is set to HIGH and likewise  $-41.5 \pm 1.5$  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 $-29.5 \pm 1.5$ dBm得られること、BRILLIANCE LEVEL スイッチを HIGH にしたとき $-24 \pm 1.5$ dBm、Low にしたとき $-41.5 \pm 1.5$ 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  $10 \pm 1$  Hz.

TREMLO 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) を調整してます。

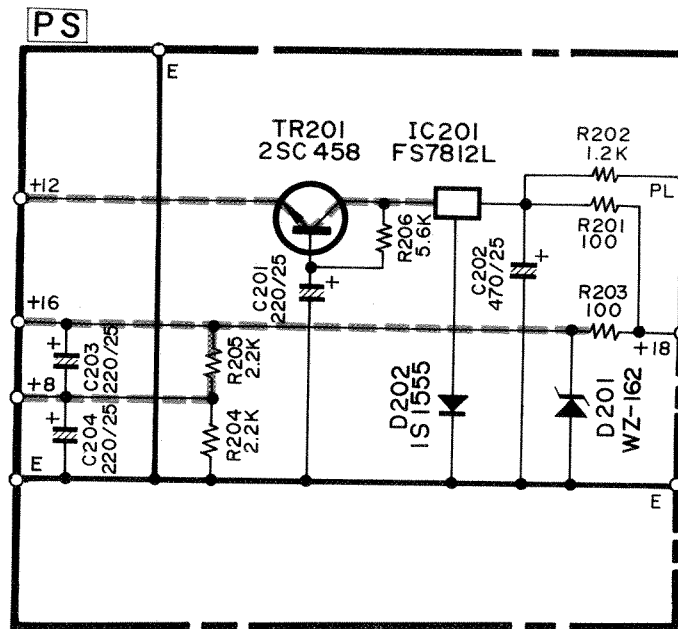
※このときの変調周波数は $10 \pm 1$  Hzであること。

13. Check that the modulation frequency is  $0.8 \pm_{-0.2}^{+0.5}$  Hz when the speed (VR6) control is set to its leftmost position.

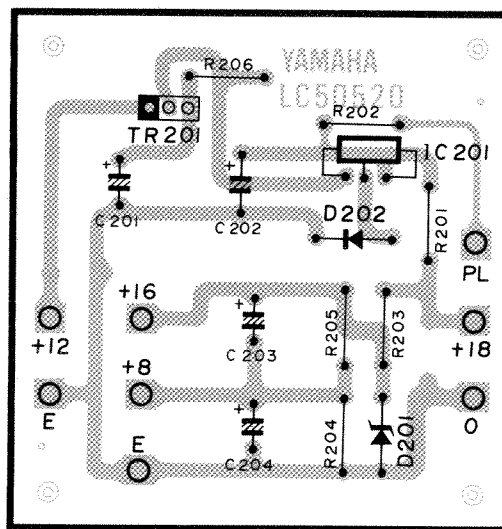
SPEED (VR6) ツマミを最少にしたとき、変調周波数は $0.8 \pm_{-0.2}^{+0.5}$ Hzであることを確認してください。

**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**



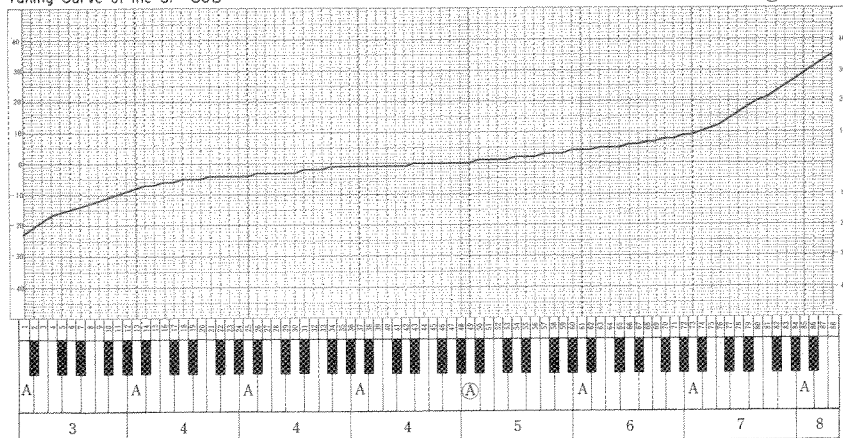
●TUNING THE CP-80 CP-80の調律

49A=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 |
|---------|------|---------------|---------|------|---------------|---------|------|---------------|---------|------|---------------|
| 1A      | -23  | ③             | 23G     | -4   | ④             | 45F     | 0    | ④             | 67D#    | +6   | ⑥             |
| 2A#     | -21  | ③             | 24G#    | -4   | ④             | 46F#    | 0    | ④             | 68E     | +7   | ⑥             |
| 3B      | -19  | ③             | 25A     | -4   | ④             | 47G     | 0    | ④             | 69F     | +7   | ⑥             |
| 4C      | -17  | ③             | 26A#    | -3   | ④             | 48G#    | 0    | ④             | 70F#    | +8   | ⑥             |
| 5C#     | -16  | ③             | 27B     | -3   | ④             | 49A     | 0    | ⑤             | 71G     | +8   | ⑥             |
| 6D      | -15  | ③             | 28C     | -3   | ④             | 50A#    | +1   | ⑤             | 72G#    | +9   | ⑥             |
| 7D#     | -14  | ③             | 29#     | -3   | ④             | 51B     | +1   | ⑤             | 73A     | +9   | ⑦             |
| 8E      | -13  | ③             | 30D     | -3   | ④             | 52C     | +1   | ⑤             | 74A#    | +10  | ⑦             |
| 9F      | -12  | ③             | 31D#    | -2   | ④             | 53C#    | +1   | ⑤             | 75B     | +11  | ⑦             |
| 10F#    | -11  | ③             | 32E     | -2   | ④             | 54D     | +2   | ⑤             | 76C     | +12  | ⑦             |
| 11G     | -10  | ③             | 33F     | -2   | ④             | 55D#    | +2   | ⑤             | 77C#    | +14  | ⑦             |
| 12G#    | -9   | ③             | 34F#    | -1   | ④             | 56E     | +2   | ⑤             | 78D     | +16  | ⑦             |
| 13A     | -8   | ④             | 35G     | -1   | ④             | 57F     | +3   | ⑤             | 79D#    | +18  | ⑦             |
| 14A#    | -7   | ④             | 36G#    | -1   | ④             | 58F#    | +3   | ⑤             | 80E     | +20  | ⑦             |
| 15B     | -7   | ④             | 37A     | -1   | ④             | 59G     | +3   | ⑤             | 81F     | +21  | ⑦             |
| 16C     | -6   | ④             | 38A#    | -1   | ④             | 60G#    | +4   | ⑤             | 82F#    | +23  | ⑦             |
| 17C#    | -6   | ④             | 39B     | -1   | ④             | 61A     | +4   | ⑥             | 83G     | +25  | ⑦             |
| 18D     | -5   | ④             | 40C     | -1   | ④             | 62A#    | +4   | ⑥             | 84G#    | +27  | ⑦             |
| 19D#    | -5   | ④             | 41C#    | -1   | ④             | 63B     | +5   | ⑥             | 85A     | +29  | ⑧             |
| 20E     | -5   | ④             | 42D     | -1   | ④             | 64C     | +5   | ⑥             | 86A#    | +31  | ⑧             |
| 21F     | -4   | ④             | 43D#    | 0    | ④             | 65C#    | +5   | ⑥             | 87B     | +33  | ⑧             |
| 22F#    | -4   | ④             | 44E     | 0    | ④             | 66D     | +6   | ⑥             | 88C     | +35  | ⑧             |

Tuning Curve of the CP-80B

49A=440 Hz



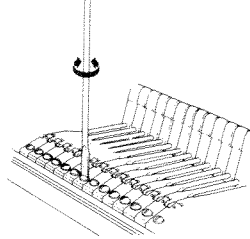
NOTE:

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.

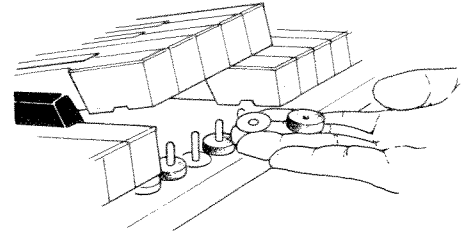
The accompanying curve will be helpful when tuning.

## ● TONE ADJUSTMENT PROCEDURES 整調手順

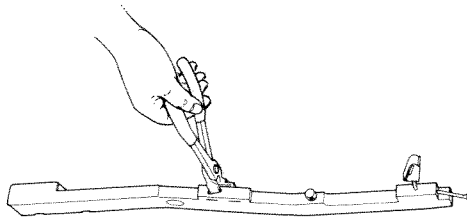
|                        |   |
|------------------------|---|
| ◎ <b>Works content</b> | Hammer spacing, cord adjustment               |
| <b>Purpose</b>         | To improve cord striking efficiency of hammer |
| <b>Dimensions</b>      |   |
| <b>Used tools</b>      | Screw driver, glue, paper shank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



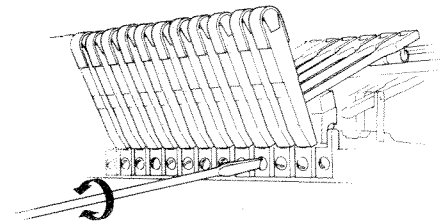
|                      |                                     |
|----------------------|-------------------------------------|
| <b>Works content</b> | Key board depth adjustment          |
| <b>Purpose</b>       | To obtain correct touch             |
| <b>Dimensions</b>    | 10 mm                               |
| <b>Used tools</b>    | Scribing rule, front paper punching |



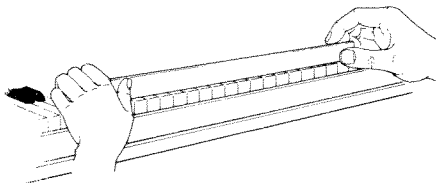
|                        |                                       |
|------------------------|---------------------------------------|
| * <b>Works content</b> | Key board adjustment                  |
| <b>Purpose</b>         | To smoothen the movement of key board |
| <b>Dimensions</b>      |                                       |
| <b>Used tools</b>      | Key pliers, key hole pinch bar        |



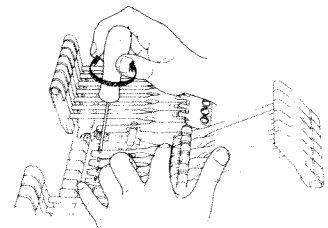
|                        |                                       |
|------------------------|---------------------------------------|
| * <b>Works content</b> | Whippen alignment                     |
| <b>Purpose</b>         | To eliminate loss of shank pushing-up |
| <b>Dimensions</b>      |                                       |
| <b>Used tools</b>      | Screw driver                          |



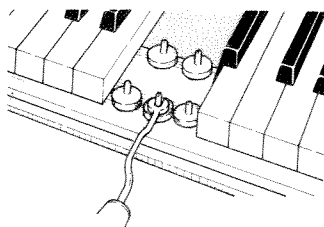
|                        |   |
|------------------------|---|
| * <b>Works content</b> | Key board height adjustment   |
| <b>Purpose</b>         | To obtain correct touch by keeping correct dimensions                               |
| <b>Dimensions</b>      | Surface of white key - 64 mm from the shelf<br>Black key - 12 mm from the white key |
| <b>Used tools</b>      | Levelling rule, scale, tweezers, balance paper punching                             |



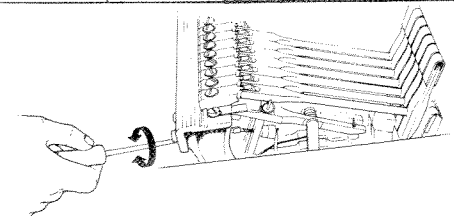
|                        |  |
|------------------------|--|
| ◎ <b>Works content</b> | Adjustment of up-and downward movement of jack                                       |
| <b>Purpose</b>         | To eliminate loss of key striking force together with ensuring smooth return of jack |
| <b>Dimensions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



|                      |  |
|----------------------|--|
| <b>Works content</b> | Key board spacing adjustment           |
| <b>Purpose</b>       | To prevent noise by aligning key board |
| <b>Dimensions</b>    |  |
| <b>Used tools</b>    | Adjuster of oval key pin               |



|                        |   |
|------------------------|---|
| ◎ <b>Works content</b> | Back and forth movement of jack         |
| <b>Purpose</b>         | To eliminate loss of key striking force |
| <b>Dimensions</b>      |   |
| <b>Used tools</b>      | Jack screw driver                       |

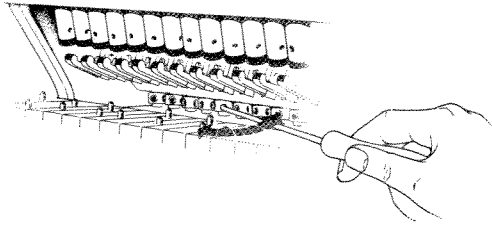


\*..... Perform the work with the action released. (Ref. P.8 - 4)

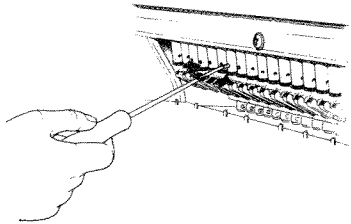
◎..... Perform with the upper unit released. (Ref. P.8 - 2)

## ● TONE ADJUSTMENT PROCEDURES 整調手順

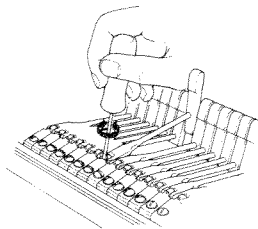
|               |  |
|---------------|--|
| Works content | Hammer adjusting   |
| Purpose       | To make touch uniform by equalizing cord striking distance |
| Dimensions    | 40 mm  |
| Used tools    | Cord striking distance rule, button driver                 |



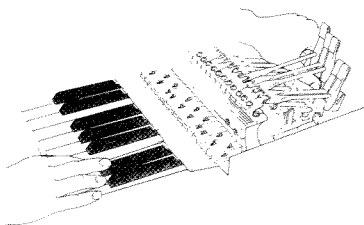
|               |  |
|---------------|--|
| Works content | Hammer approach  |
| Purpose       | To obtain correct touch  |
| Dimensions    | Low-pitched sound 2.5 mm<br>Middle-pitched sound 2.0 mm<br>High-pitched sound 1.5 mm |
| Used tools    | Button driver  |



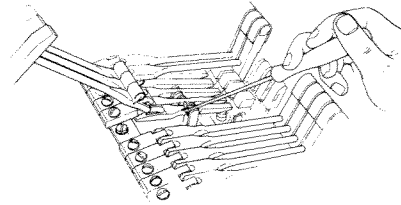
|               |                                    |
|---------------|------------------------------------|
| Works content | Hammer return                      |
| Purpose       | To obtain correct touch            |
| Dimensions    | From closest point, 2 mm           |
| Used tools    | Repetition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



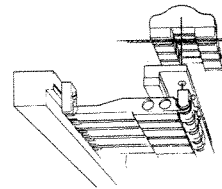
|               |  |
|---------------|--|
| Works content | Hammer stop                                  |
| Purpose       | To facilitate the next cord striking quickly |
| Dimensions    | Low 14 mm, Medium 13 mm, High 12 mm          |
| Used tools    | Rule   |



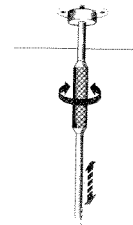
|               |   |
|---------------|---|
| Works content | Spring adjustment of repetition lever   |
| Purpose       | To make touch uniform by ensuring correct return of jack and repetition lever |
| Dimensions    |   |
| Used tools    | Spring corrector  |



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



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



|               |                                 |
|---------------|---------------------------------|
| 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<br>ロングヒンジ                       |       |        | ●     |
| 30 03 00 10 00 07 00 | BX 50 00 40  | Damper Rod<br>ダンパーロッド                     |       |        | ●     |
| 30 03 00 67 00 01 60 | CX 50 00 20  | Latch Cover(1)<br>クランプカバー(1)              | ●     | ●      | ●     |
| 30 03 00 67 00 01 70 | CX 50 00 30  | " (2)<br>" (2)                            | ●     | ●      | ●     |
| 30 05 00 30 00 27 20 | CX 50 00 40  | Black Key Top<br>黒 鍵                      | ●     | ●      | ●     |
| 30 03 70 95 08 02 10 | DX 50 00 90  | Top Lid(Front)<br>屋 根 (前)                 | ●     | ●      |       |
| 30 03 80 00 08 02 10 | DX 50 01 00  | " ( " )<br>"                              |       |        | ●     |
| 30 03 70 95 08 02 20 | DX 50 01 10  | " (Back)<br>屋 根 (後)                       | ●     | ●      |       |
| 30 03 80 00 08 02 20 | DX 50 01 20  | " ( " )<br>"                              |       |        | ●     |
| 30 03 70 95 08 39 20 | DX 50 01 30  | Harp Section Cover Assy<br>上ケース蓋 Assy     | ●     | ●      |       |
| 30 03 80 00 08 39 20 | DX 50 01 40  | "<br>"                                    |       |        | ●     |
| 30 03 70 95 08 39 30 | DX 50 01 50  | Keyboard Section Cover Assy<br>下ケース蓋 Assy | ●     | ●      |       |
| 30 03 80 00 08 39 30 | DX 50 01 60  | "<br>"                                    |       |        | ●     |
| 30 03 70 95 08 17 10 | DX 50 01 70  | Upstop Rail<br>鍵 盤 押 え                    | ●     | ●      |       |
| 30 03 80 00 08 17 10 | DX 50 01 80  | "<br>"                                    |       |        | ●     |
| 30 03 80 00 08 15 00 | DX 50 01 90  | Keyslip<br>口 棒                            |       |        | ●     |
| 30 03 71 00 08 54 60 | NX 50 28 90  | Bass String(Set)<br>巻 線                   |       | ●      |       |
| 30 03 80 00 08 54 60 | NX 50 29 00  | " (Set)<br>"                              |       |        | ●     |

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)

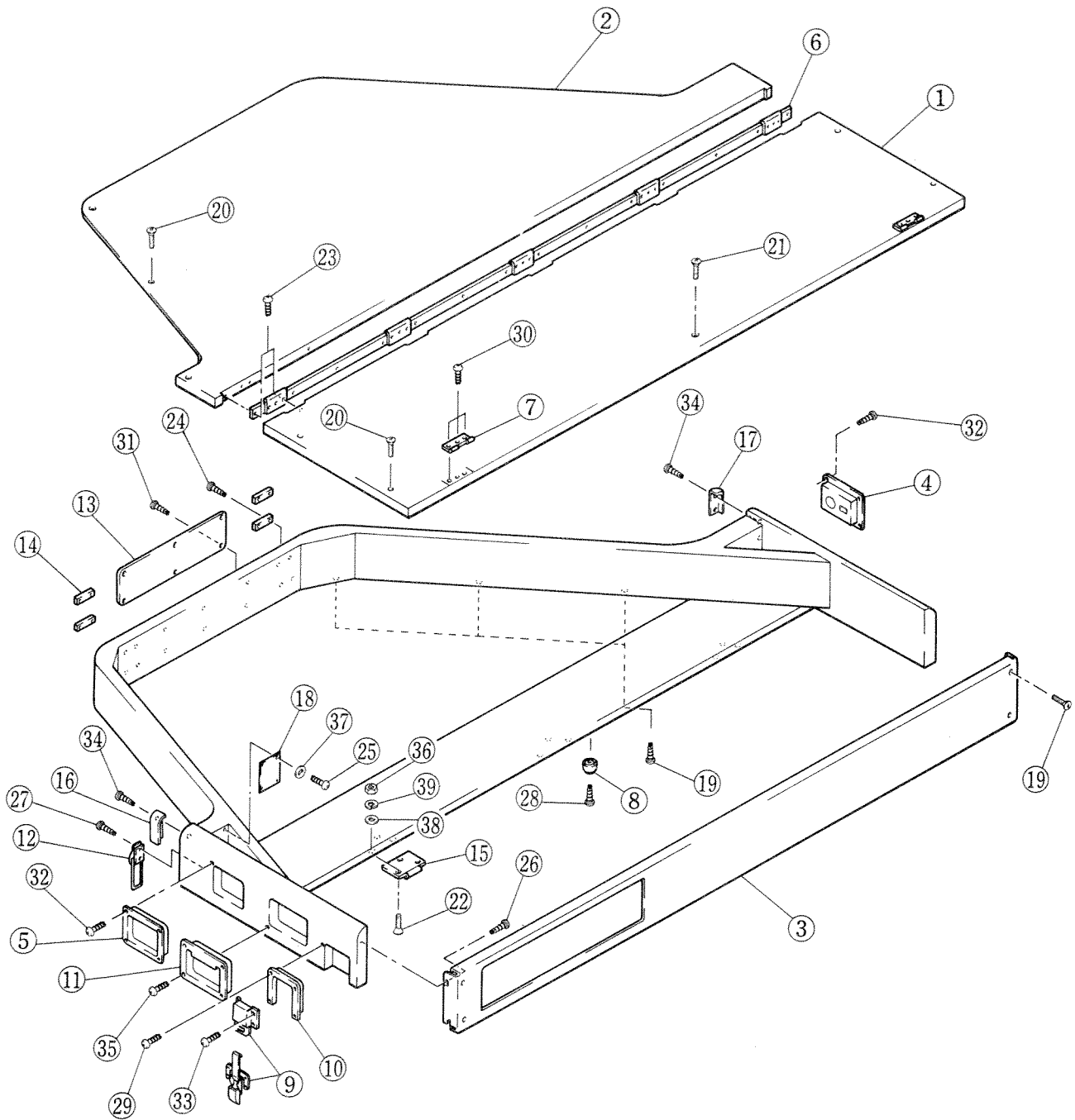
| Ref. No. | Part No.     | Description                | 部 品 名              | CP-70             | CP-70B | CP-80 |
|----------|--------------|----------------------------|--------------------|-------------------|--------|-------|
|          | NA 50 01 50  | Circuit Board, TR          | T R シ ー ト          | *                 |        |       |
|          | 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. - * iG027850         | FS7812L            | "                 | "      | *     |
|          | i G 02 78 50 | - do. -                    | $\mu$ 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 $\Omega$ x 2 | 可 変 抵 抗 器         | *      | *     |
|          | HS 42 01 20  | - do. - (Bass)             | A50K $\Omega$      | "                 | *      | *     |
|          | HS 42 01 30  | - do. - (Middle)           | A1K $\Omega$       | "                 | *      | *     |
|          | HS 42 01 40  | - do. - (Treble)           | B10K $\Omega$      | "                 | *      | *     |
|          | HS 42 01 50  | - do. - (Speed)            | B100K $\Omega$ x 2 | "                 | *      | *     |
|          | HS 42 01 60  | - do. - (Depth)            | C20K $\Omega$ x 2  | "                 | *      | *     |
|          | HT 41 00 70  | Semi Variable Resistor     | B10K $\Omega$      | 半 固 定 抵 抗         | *      | *     |
|          | HT 41 00 80  | - do. -                    | B22K $\Omega$      | "                 | *      | *     |
|          | HT 41 00 90  | - do. -                    | B100K $\Omega$     | "                 | "      | *     |
|          | FM 11 61 00  | B.P. Capacitor             | 1 $\mu$ F/50V      | B P コ ン デ ン サ     | *      | *     |
|          | FM 11 62 20  | - do. -                    | 2.2 $\mu$ F/50V    | "                 | "      | *     |
|          | FP 35 54 70  | Tantalum Capacitor         | 0.47 $\mu$ 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

| Ref. No. | Part No.    | Description                    | 部 品 名      | CP-70 | CP-70B | CP-80 |
|----------|-------------|--------------------------------|------------|-------|--------|-------|
|          | JB 00 03 60 | Pilot Lamp                     | パイロットランプ   | ●     |        |       |
|          | KA 20 04 60 | Lever Switch (POWER) (J, U, C) | レバースイッチ    | ●     |        |       |
|          | KA 20 04 70 | - do. - (- do. -) (SA, AU, NE) | "          | ●     |        |       |
|          | KA 20 05 70 | - do. - (BRILLIANCE)           | "          |       |        | ●     |
|          | KA 20 07 00 | - do. - (TREMOLLO)             | "          | ●     | ●      | ●     |
|          | KA 40 06 10 | Slide Switch (POWER)           | スライドスイッチ   |       | ●      | ●     |
|          | KB 00 02 00 | Fuse 125V 0.5A (J)             | ヒューズ       | ●     |        |       |
|          | KB 00 03 10 | - do. - 250V 0.5A (SA, AU)     | "          | ●     |        |       |
|          | KB 00 07 10 | - do. - (Mini) (NE)            | "          | ●     |        |       |
|          | KB 00 10 10 | - do. - (U, C)                 | "          | ●     |        |       |
|          | LB 20 06 30 | Phone Jack (OUTPUT)            | フォンジャック    | ●     | ●      | ●     |
|          | LB 20 08 60 | - do. - (PATCH)                | "          |       | ●      | ●     |
|          | LB 20 11 70 | - do. - (- do. -)              | "          | ●     |        |       |
|          | LB 30 01 60 | Connector XLR3-32 (3P Male)    | キャノンソケット   | ●     | ●      | ●     |
|          | LB 20 07 60 | - do. - XLR2-32 (2P Male)      | "          |       | ●      | ●     |
|          | LB 20 07 80 | - do. - XLR2-11C (2P Female)   | キャノンプラグ    |       | ●      | ●     |
|          | LB 30 05 60 | AC Socket                      | A C ソケット   | ●     |        |       |
|          | BD 50 00 20 | Piezoelectric Pickup           | ピックアップユニット |       | ●      | ●     |
|          | BD 50 05 10 | - do. - → BD500020             | "          | ●     |        |       |
|          | 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)                   | "          | ●     |        |       |
|          | FZ 00 01 10 | Spark Suppressor Cap. (J, U)   | スパークキラー    | ●     |        |       |
|          | FZ 00 09 50 | - do. - (C)                    | "          | ●     |        |       |

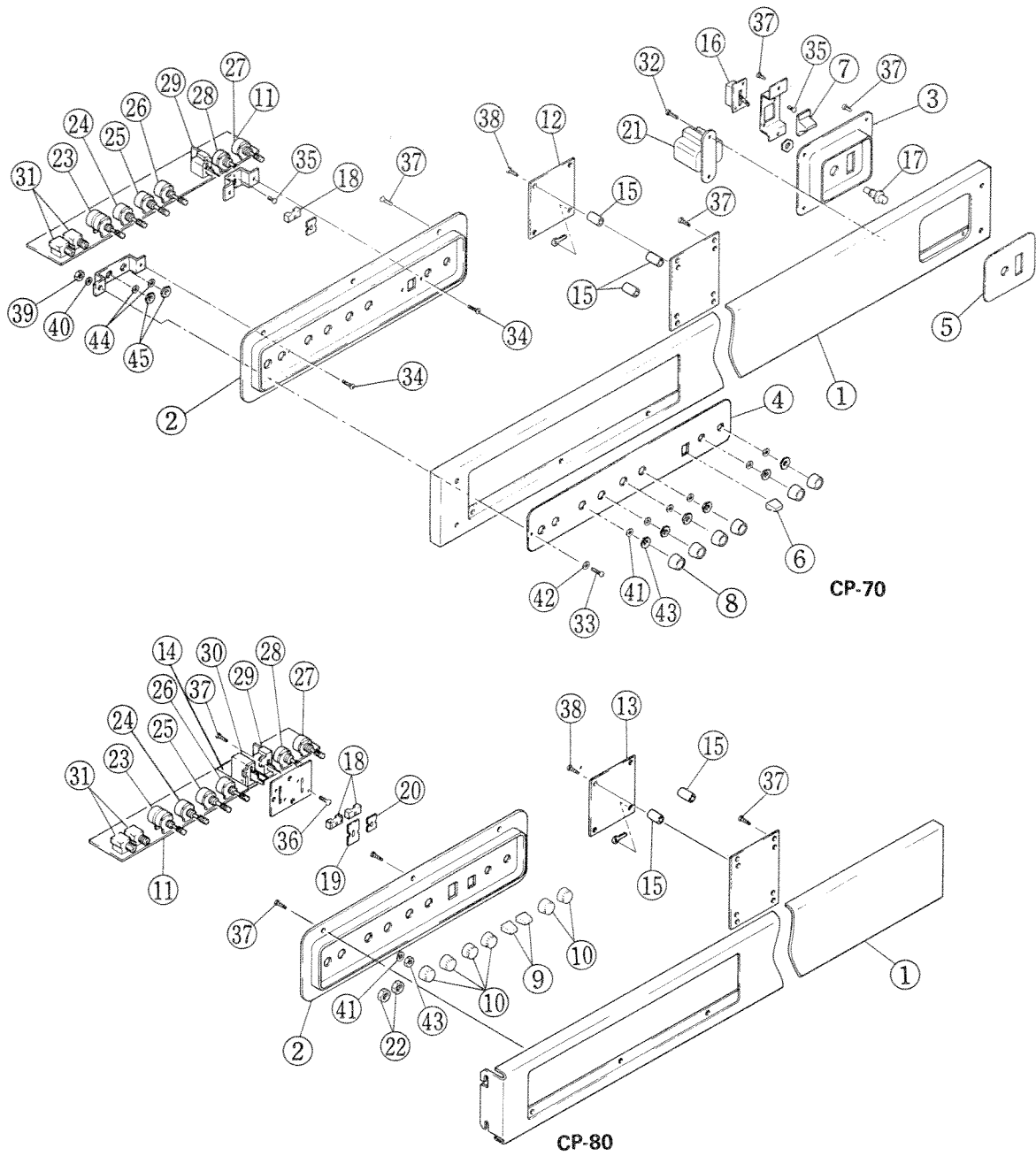
J: Japanese, U: U.S., C: Canadian, AU: Australian, SA: S. African, NE: N. European, G: General

## 2. Harp Section (上本体)



| Ref. No. | Part No.    | Description             |          |    | 部 品 名             | CP-70 | CP-70B | CP-80 |  |  |
|----------|-------------|-------------------------|----------|----|-------------------|-------|--------|-------|--|--|
| 1        | DX 50 00 90 | Top Lid (Front)         |          |    | 屋 根 (前)           | *     | *      |       |  |  |
| "        | DX 50 01 00 | - do. - (- do. -)       |          |    | "                 |       |        | *     |  |  |
| 2        | DX 50 01 10 | - do. - (Back)          |          |    | 屋 根 (後)           | *     | *      |       |  |  |
| "        | DX 50 01 20 | - do. - (- do. -)       |          |    | "                 |       |        | *     |  |  |
| 3        | AA 50 18 60 | Front Board             |          |    | 前 板               | *     |        |       |  |  |
| "        | AA 50 18 70 | - do. -                 |          |    | "                 |       |        | *     |  |  |
| "        | AA 50 19 50 | - do. -                 |          |    | "                 |       | *      |       |  |  |
| 4        | AA 50 08 60 | Panel (Right)           |          |    | パ ネ ル (右)         | *     |        |       |  |  |
| "        | AA 50 19 40 | - do. - (- do. -)       |          |    | "                 |       | *      | *     |  |  |
| 5        | AA 50 20 40 | - do. - (Left)          |          |    | パ ネ ル (左)         | *     | *      | *     |  |  |
| 6        | BB 50 02 00 | Long Hinge              |          |    | ロ ン グ ヒ ン ジ       | *     | *      |       |  |  |
| "        | BX 50 00 30 | - do. -                 |          |    | "                 |       |        | *     |  |  |
| 7        | AA 50 16 50 | Top Hinge (Female)      |          |    | 中 開 蝶 番 (メス)      | *     | *      | *     |  |  |
| 8        | CB 07 83 90 | Foot                    |          |    | 脚                 | *     | *      | *     |  |  |
| 9        | AA 50 15 90 | Latch (Set)             |          |    | ス ー パ ー ク ラ ン プ   | *     | *      | *     |  |  |
| 10       | CX 50 00 30 | Latch Cover             |          |    | ク ラ ン プ カ バ ー (2) | *     | *      | *     |  |  |
| 11       | AA 50 17 70 | Handle                  |          |    | 把 手               | *     | *      | *     |  |  |
| 12       | AA 50 16 20 | Latch (Male)            |          |    | セ ミ パ ッ チ ン (オ ス) | *     | *      | *     |  |  |
| 13       | BA 50 00 60 | Name Plate              |          |    | ネ ー ム プ レ ー ト     | *     | *      | *     |  |  |
| 14       | CB 50 08 10 | Foot                    |          |    | 滑 り 具             | *     | *      | *     |  |  |
| 15       | AA 50 13 10 | Dissection Hinge (Male) |          |    | 解 体 式 蝶 番 (オ ス)   | *     | *      | *     |  |  |
| 16       | AA 50 11 80 | Metal Corner (2L)       |          |    | コ ー ナ ー 金 具 (2L)  | *     | *      | *     |  |  |
| 17       | AA 50 15 10 | - do. - (2R)            |          |    | " (2R)            | *     | *      | *     |  |  |
| 18       | NA 50 01 80 | Circuit Board, LT       |          |    | L T シ ー ト         | *     |        |       |  |  |
| 19       | EF 35 02 00 | Oval Head Screw         | M5 x 20  | BL | 丸 皿 小 ネ ジ         | *     | *      | *     |  |  |
| 20       | EF 35 02 50 | - do. -                 | M5 x 25  | BL | "                 | *     | *      | *     |  |  |
| 21       | EF 35 03 00 | - do. -                 | M5 x 30  | BL | "                 | *     | *      | *     |  |  |
| 22       | EF 35 03 50 | - do. -                 | M5 x 35  | BL | "                 | *     | *      | *     |  |  |
| 23       | EP 32 41 60 | Flat Head Wood Screw    | 2.4 x 16 | BL | 皿 木 ネ ジ           | *     | *      | *     |  |  |
| 24       | EP 33 51 60 | - do. -                 | 3.5 x 16 | BL | "                 | *     | *      | *     |  |  |
| 25       | EQ 03 11 30 | Round Head Wood Screw   | 3.1 x 13 | YE | 丸 木 ネ ジ           | *     |        |       |  |  |
| 26       | EQ 03 51 60 | - do. -                 | 3.5 x 16 | YE | "                 |       |        | *     |  |  |
| 27       | EQ 32 71 60 | - do. -                 | 2.7 x 16 | BL | "                 | *     | *      | *     |  |  |
| 28       | EQ 33 12 00 | - do. -                 | 3.1 x 20 | BL | "                 | *     | *      | *     |  |  |
| 29       | ER 32 71 30 | Oval Head Wood Screw    | 2.7 x 13 | BL | 丸 皿 木 ネ ジ         | *     | *      | *     |  |  |
| 30       | ER 32 71 60 | - do. -                 | 2.7 x 16 | BL | "                 | *     | *      | *     |  |  |
| 31       | ER 33 11 30 | - do. -                 | 3.1 x 13 | BL | "                 | *     | *      | *     |  |  |
| 32       | ER 33 11 60 | - do. -                 | 3.1 x 16 | BL | "                 | *     | *      | *     |  |  |
| 33       | ER 33 51 60 | - do. -                 | 3.5 x 16 | BL | "                 | *     | *      | *     |  |  |
| 34       | ER 33 52 00 | - do. -                 | 3.5 x 20 | BL | "                 | *     | *      | *     |  |  |
| 35       | ER 34 12 50 | - do. -                 | 4.1 x 25 | BL | "                 | *     | *      | *     |  |  |
| 36       | EV 10 00 50 | Hexagonal Nut           | M5       | YE | 六 角 ナ ッ ト         | *     | *      | *     |  |  |
| 37       | EV 20 00 30 | Flat Washer             | 3S       | YE | 平 座 金             | *     |        |       |  |  |
| 38       | EV 20 00 50 | - do. -                 | 5S       | YE | "                 | *     | *      | *     |  |  |
| 39       | EV 30 00 50 | Spring Lock Washer      | 5S       | YE | バ ネ 座 金           | *     | *      | *     |  |  |

### 3. Front Panel (前板)



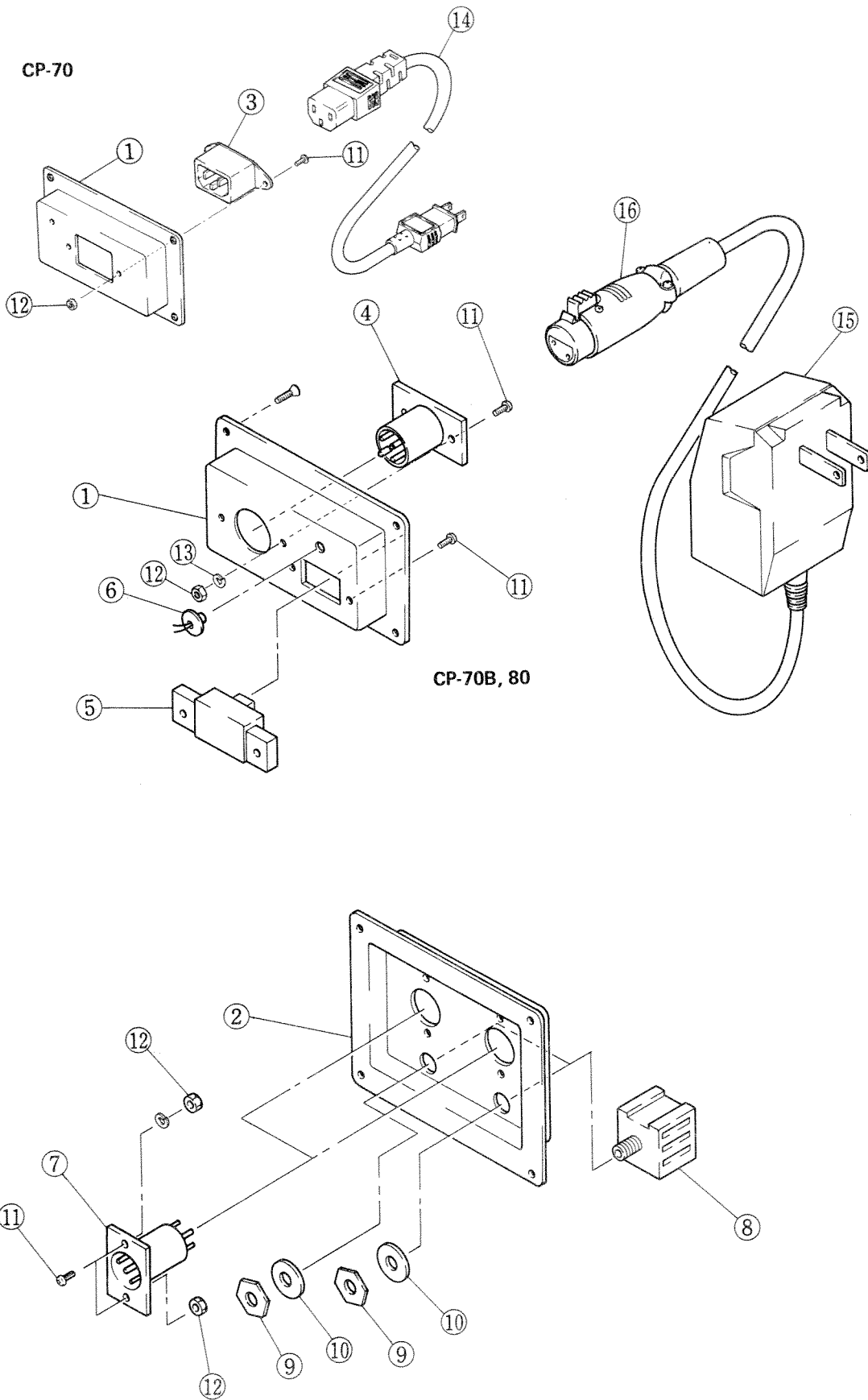
| Ref. No. | Part No.    | Description        | 部 品 名             | CP-70 | CP-70B | CP-80 |
|----------|-------------|--------------------|-------------------|-------|--------|-------|
| 1        | AA 50 18 60 | Front Panel        | 前 板               | ●     |        |       |
| "        | AA 50 19 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



| Ref. No. | Part No.    | Description                | 部 品 名                 | CP-70 | CP-70B | CP-80 |    |    |     |
|----------|-------------|----------------------------|-----------------------|-------|--------|-------|----|----|-----|
| 6        | CB 07 38 40 | Knob                       | TREMOLO               | ツ     | マ      | ミ     | ●  | ●  |     |
| 7        | CB 07 66 60 | - do. -                    | POWER                 |       | 〃      |       | ●  |    |     |
| 8        | CB 80 08 20 | - do. -                    | VR                    |       | 〃      |       | ●  | ●  |     |
| 9        | CB 50 14 20 | - do. -                    | TREMOLO<br>BRILLIANCE |       | 〃      |       |    |    | ●   |
| 10       | CB 81 17 80 | - do. -                    | VR                    |       | 〃      |       |    |    | ●   |
| 11       | NA 50 01 50 | Circuit Board, TR          |                       | T     | R      | シ     | ー  | ト  | ●   |
| "        | NA 50 03 10 | - do. - , - do. -          |                       |       | 〃      |       |    |    | ●   |
| "        | NA 50 03 50 | - do. - , - do. -          |                       |       | 〃      |       |    |    | ●   |
| 12       | NA 50 01 70 | - do. - , DC               |                       | D     | C      | シ     | ー  | ト  | ●   |
| 13       | NA 50 03 20 | - do. - , PS               |                       | P     | S      | シ     | ー  | ト  | ●   |
| 14       | LC 50 55 00 | P.C. Board, BR             |                       | BR    | シ      | ー     | ト  | ブ  | リ   |
| 15       | CB 01 09 80 | Spacer                     |                       | ス     | ペ      | ー     | サ  | ー  | ●   |
| 16       | KA 20 04 60 | Lever Switch (POWER)       | (J, U, C)             | レ     | バ      | ー     | ス  | イ  | ッ   |
| "        | KA 20 04 70 | - do. - (- do. -)          | (SA, AU, NE)          |       | 〃      |       |    |    | ●   |
| 17       | JB 00 03 60 | Pilot Lamp                 |                       | パ     | イ      | ロ     | ッ  | ト  | ラ   |
| 18       | CB 06 85 80 | Bushing, Switch            |                       | ブ     | ッ      | シ     | ュ  |    | ●   |
| "        | CB 50 14 30 | - do. -                    |                       |       | 〃      |       |    |    | ●   |
| 19       | CB 50 14 40 | Apron, Switch (L)          | BR SW                 | ス     | イ      | ッ     | チ  | エ  | ブ   |
| 20       | CB 50 14 50 | - do. - (S)                | TR SW                 |       | 〃      |       |    |    | (S) |
| 21       | 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)                  |       | 〃      |       |    |    | ●   |
| 22       | CB 06 20 10 | Phone Nut                  | ⇒ BA500360            | ホ     | ー      | ン     | ナ  | ッ  | ト   |
| "        | BA 50 03 60 | - do. -                    |                       |       | 〃      |       |    |    | ●   |
| 23       | HS 42 01 10 | Variable Resistor (Volume) | A100KΩ x 2            | 可     | 変      | 抵     | 抗  | 器  | ●   |
| 24       | HS 42 01 20 | - do. - (Bass)             | A50KΩ                 |       | 〃      |       |    |    | ●   |
| 25       | HS 42 01 30 | - do. - (Middle)           | A1KΩ                  |       | 〃      |       |    |    | ●   |
| 26       | HS 42 01 40 | - do. - (Treble)           | B10KΩ                 |       | 〃      |       |    |    | ●   |
| 27       | HS 42 01 50 | - do. - (Speed)            | B100KΩ x 2            |       | 〃      |       |    |    | ●   |
| 28       | HS 42 01 60 | - do. - (Depth)            | C20KΩ                 |       | 〃      |       |    |    | ●   |
| 29       | KA 20 07 00 | Lever Switch               | TREMOLO               | レ     | バ      | ー     | ス  | イ  | ッ   |
| 30       | KA 20 05 70 | - do. -                    | BRILLIANCE            |       | 〃      |       |    |    | ●   |
| 31       | LB 20 11 70 | Phone Jack                 | PATCH                 | ホ     | ー      | ン     | ジャ | ック | ●   |
| "        | LB 20 08 60 | - do. -                    | - do. -               |       | 〃      |       |    |    | ●   |
| 32       | EA 03 00 80 | Pan Head Screw             | M3 x 8                | Y     | E      | ナ     | ベ  | 小  | ネ   |
| 33       | EA 34 01 40 | - do. -                    | M4 x 14               | B     | L      |       | 〃  |    | ●   |
| 34       | EB 03 00 60 | Flat Head Screw            | M3 x 6                | Y     | E      | 皿     | 小  | ネ  | ジ   |
| 35       | ED 03 00 60 | Bind Screw                 | M3 x 6                | Y     | E      | バ     | イ  | ン  | ド   |
| 36       | ED 03 00 80 | - do. -                    | M3 x 8                | B     | L      |       | 〃  |    | ●   |
| 37       | Ei 03 00 80 | Bind Tapping Screw         | 3 x 8                 | Y     | E      | バ     | イ  | ン  | ド   |
| 38       | Ei 03 01 40 | Bind Tapping Screw         | 3 x 14                | Y     | E      | バ     | イ  | ン  | ド   |
| 39       | EV 10 00 40 | Hexagonal Nut              | M4                    | Y     | E      | 六     | 角  | ナ  | ッ   |
| 40       | EV 20 00 40 | Flat Washer                | 4S                    | Y     | E      | 平     | 座  | 金  | ●   |
| 41       | EV 22 00 80 | - do. -                    | 8S                    |       |        | 特     | 殊  | 平  | 座   |
| 42       | EV 41 00 40 | Toothed Lock Washer        | A4S                   |       |        | 歯     | 付  | 座  | 金   |
| 43       | EZ 30 80 10 | Hexagonal Nut              | M8                    |       |        | 特     | 殊  | 六  | 角   |
| 44       | LX 20 00 10 | Flat Washer                | 9S                    |       |        | 特     | 殊  | 平  | 座   |
| 45       | LX 20 00 60 | Hexagonal Nut              | M9                    |       |        | 特     | 殊  | 六  | 角   |

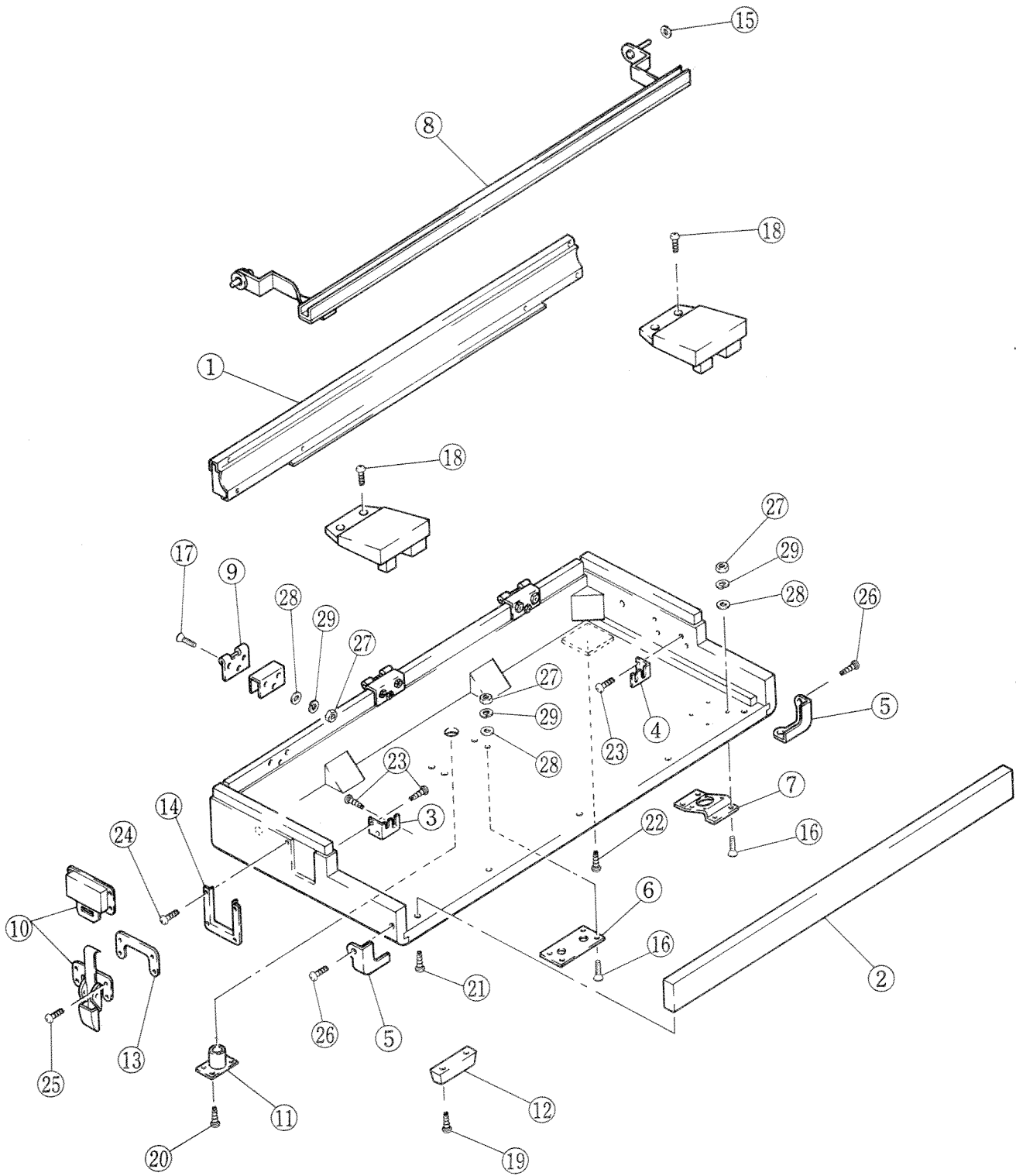
#### 4. Side Panel (左右パネル)



| 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        | iF: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<br>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   | バ 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             |       | ●      | ●     |

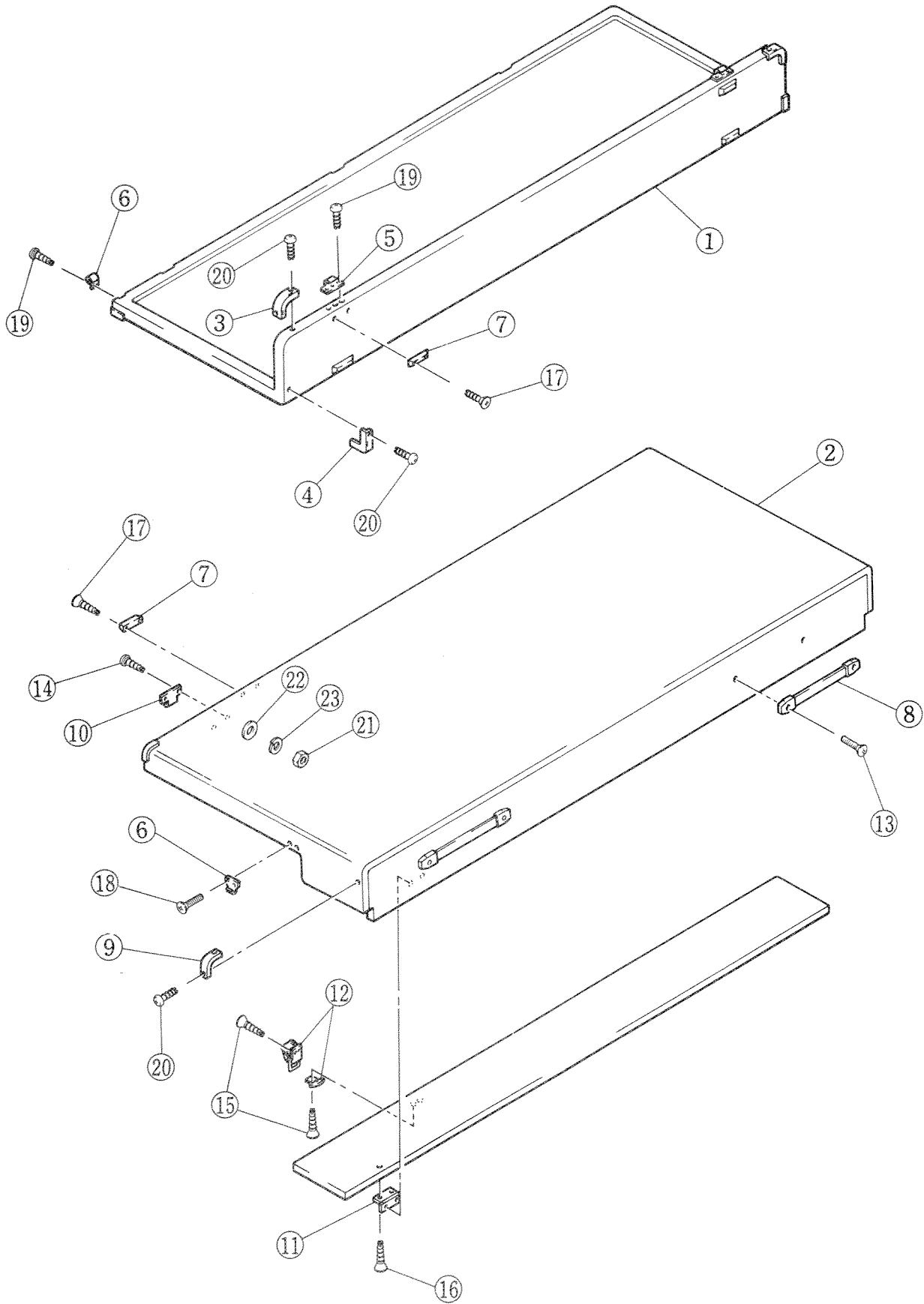
J: Japanese, U: U.S., C: Canadian, AU: Australian, SA: S. African, NE: N. European, G: General

# 5. Keyboard Section (下本体)



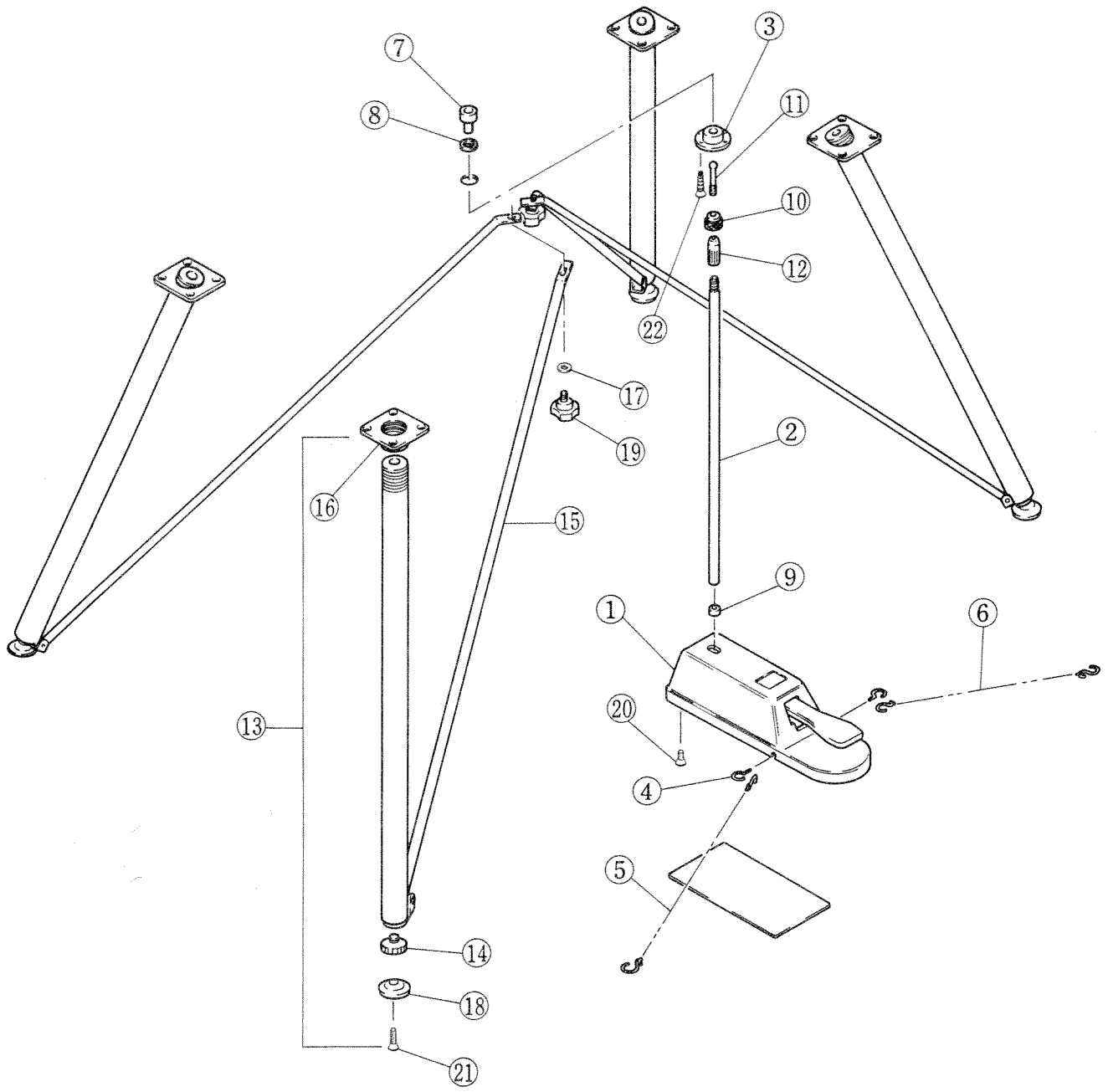
| Ref. No. | Part No.    | Description               |          |    | 部 品 名        | CP-70 | CP-70B | CP-80 |  |  |
|----------|-------------|---------------------------|----------|----|--------------|-------|--------|-------|--|--|
| 1        | DX 50 01 70 | Upstop Rail               |          |    | 鍍 鍍 押 え      | ●     | ●      |       |  |  |
| "        | DX 50 01 80 | - do. -                   |          |    | "            |       |        | ●     |  |  |
| 2        | DB 50 22 70 | Keyslip                   |          |    | 口 棒          | ●     | ●      |       |  |  |
| "        | DX 50 01 90 | - do. -                   |          |    | "            |       |        | ●     |  |  |
| 3        | AA 50 11 40 | Upstop Rail Holder (L)    |          |    | 鍍鍍押え取付金具(左)  | ●     | ●      | ●     |  |  |
| 4        | AA 50 14 90 | - do. - (R)               |          |    | " (右)        | ●     | ●      | ●     |  |  |
| 5        | AA 50 11 70 | Metal Corner (1)          |          |    | コーナ-金具 (1)   | ●     | ●      | ●     |  |  |
| 6        | AA 50 12 00 | Leg Brace Plate           |          |    | 脚ステイ取付座板     | ●     | ●      |       |  |  |
| "        | AA 50 21 70 | - do. -                   |          |    | "            |       |        | ●     |  |  |
| 7        | AA 50 12 30 | Leg Anchor Plate          |          |    | 脚パイプ取付座板     | ●     | ●      | ●     |  |  |
| 8        | AA 50 12 80 | Hammer Shank Stopper      |          |    | ハンマーシャング押え   | ●     | ●      |       |  |  |
| "        | AA 50 21 60 | - do. -                   |          |    | "            |       |        | ●     |  |  |
| 9        | AA 50 13 20 | Dissection Hinge (Female) |          |    | 解体式蝶番(メス)    | ●     | ●      | ●     |  |  |
| 10       | AA 50 15 90 | Latch (Set)               |          |    | スーパークランプ(オス) | ●     | ●      | ●     |  |  |
| 11       | AA 97 00 30 | Pedal Rod Guide           |          |    | 突上棒ガイド       | ●     | ●      | ●     |  |  |
| 12       | CB 50 08 10 | Foot                      |          |    | 滑り具          | ●     | ●      | ●     |  |  |
| 13       | CB 50 13 30 | Latch Spacer              |          |    | クランプスペーサー    | ●     | ●      | ●     |  |  |
| 14       | CX 50 00 20 | Latch Cover (1)           |          |    | クランプカバー (1)  | ●     | ●      | ●     |  |  |
| 15       | CD 06 01 30 | Punching Cloth            |          |    | シャング押えパンチング  | ●     | ●      | ●     |  |  |
| 16       | EB 35 02 00 | Flat Head Screw           | M5 x 20  | BL | 皿 小 ネ ジ      | ●     |        |       |  |  |
| "        | EB 35 03 00 | - do. -                   | M5 x 30  | BL | "            |       | ●      | ●     |  |  |
| 17       | EF 35 03 50 | Oval Head Screw           | M5 x 35  | BL | 丸 皿 小 ネ ジ    | ●     | ●      | ●     |  |  |
| 18       | EP 16 26 30 | Flat Head Wood Screw      | 6.2 x 63 | NI | 皿 木 ネ ジ      | ●     | ●      | ●     |  |  |
| 19       | EP 33 51 60 | - do. -                   | 3.5 x 16 | BL | "            | ●     | ●      | ●     |  |  |
| 20       | EP 33 52 00 | - do. -                   | 3.5 x 20 | BL | "            | ●     | ●      | ●     |  |  |
| 21       | EP 34 14 00 | - do. -                   | 4.1 x 40 | BL | "            | ●     |        |       |  |  |
| "        | EP 34 55 60 | - do. -                   | 4.5 x 56 | BL | "            |       | ●      | ●     |  |  |
| 22       | EP 34 54 50 | - do. -                   | 4.5 x 45 | BL | "            | ●     |        |       |  |  |
| "        | EP 35 13 20 | - do. -                   | 5.1 x 32 | BL | "            |       | ●      |       |  |  |
| 23       | EO 03 51 60 | Round Head Wood Screw     | 3.5 x 16 | YE | 丸 木 ネ ジ      | ●     | ●      | ●     |  |  |
| 24       | ER 32 71 30 | Oval Head Wood Screw      | 2.7 x 13 | BL | 丸 皿 木 ネ ジ    | ●     | ●      | ●     |  |  |
| 25       | ER 33 51 60 | - do. -                   | 3.5 x 16 | BL | "            | ●     | ●      | ●     |  |  |
| 26       | ER 33 52 00 | - do. -                   | 3.5 x 20 | BL | "            | ●     | ●      | ●     |  |  |
| 27       | EV 10 00 50 | Hexagonal Nut             | M5       | YE | 六 角 ナ ッ ト    | ●     | ●      | ●     |  |  |
| 28       | EV 20 00 50 | Flat Washer               | 5S       | YE | 平 座 金        | ●     | ●      | ●     |  |  |
| 29       | EV 30 00 50 | Spring Lock Washer        | 5S       | YE | バ ネ 座 金      | ●     | ●      | ●     |  |  |

## 6. Cover (蓋)





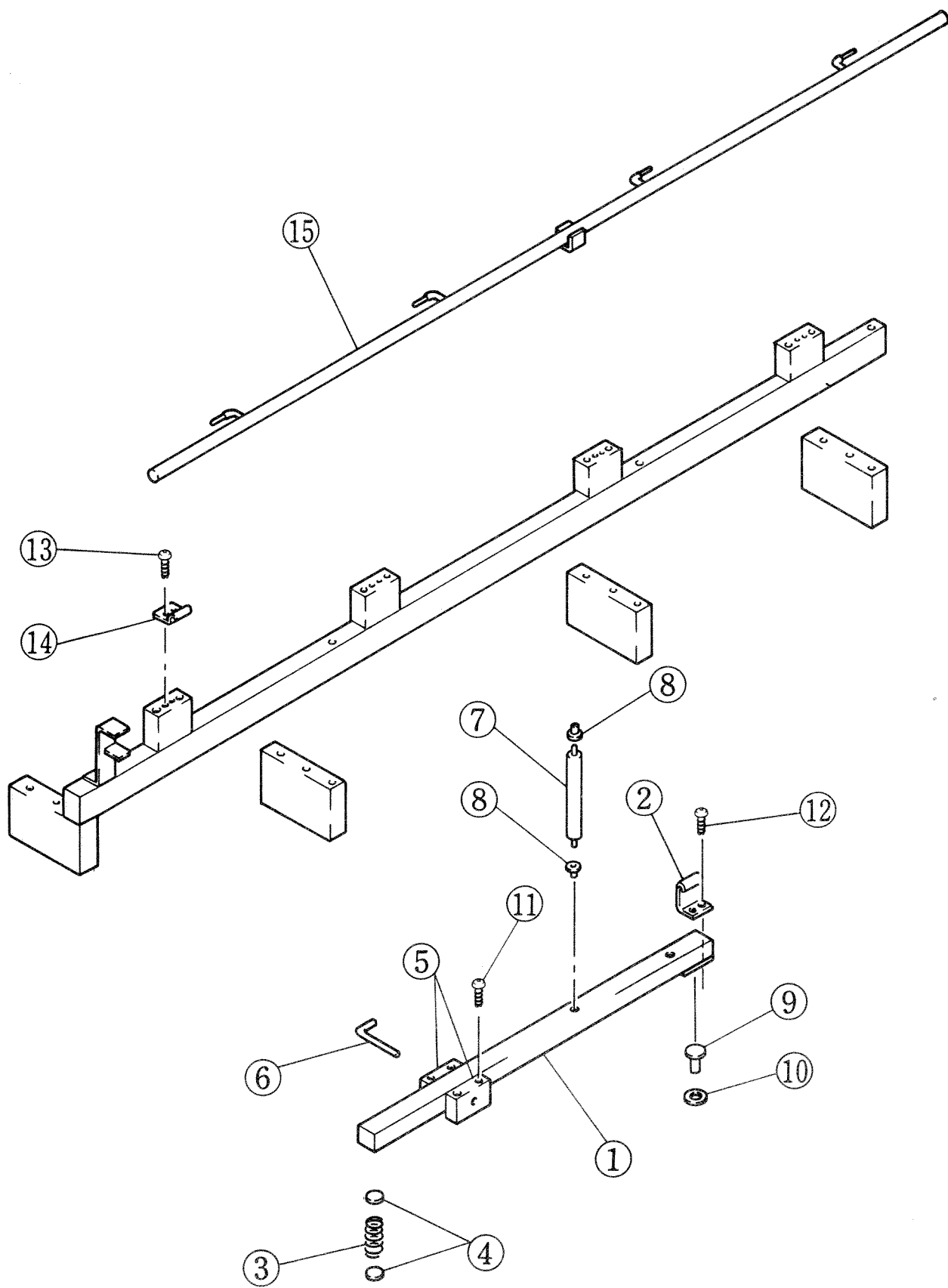
# 7. Pedal, Leg (ペダル, 脚)





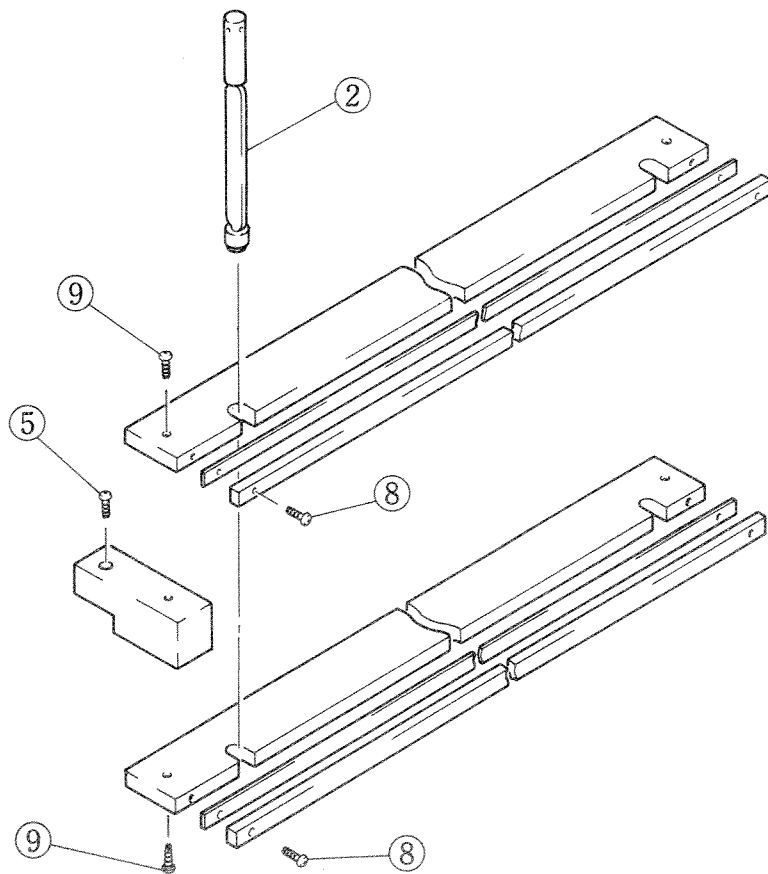
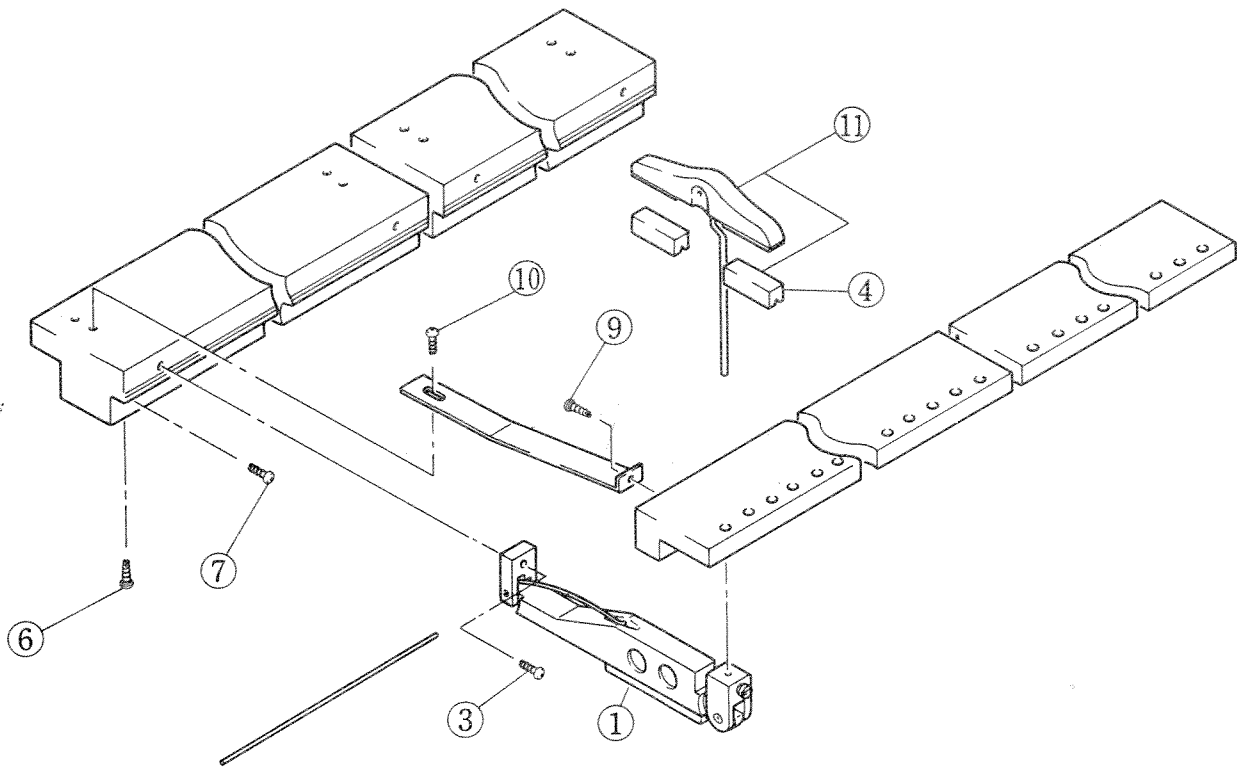
| Ref. No. | Part No.    | Description                      |          |    | 部 品 名       | CP-70 | CP-70B | CP-80 |  |  |
|----------|-------------|----------------------------------|----------|----|-------------|-------|--------|-------|--|--|
| 1        | NB:50:19:20 | Pedal Assy (without Pedal Chain) |          |    | ペダル Ass'y   | ●     | ●      | ●     |  |  |
| 2        | AA:97:00:20 | Pedal Rod (Long)                 |          |    | 突上棒(長)      | ●     | ●      | ●     |  |  |
| 3        | AA:97:00:30 | Pedal Rod Guide                  |          |    | 突上棒ガイド      | ●     | ●      | ●     |  |  |
| 4        | AA:97:00:90 | Hook Bolt                        |          |    | フックボルト      | ●     | ●      | ●     |  |  |
| 5        | AA:99:01:08 | Pedal Chain (Long)               |          |    | ペダルクサリ(長)   | ●     | ●      |       |  |  |
| "        | AA:99:01:28 | - do. - (- do. -)                |          |    | "           |       |        | ●     |  |  |
| 6        | AA:99:01:18 | - do. - (Short)                  |          |    | " (短)       | ●     | ●      |       |  |  |
| "        | AA:99:01:38 | - do. - (- do. -)                |          |    | "           |       |        | ●     |  |  |
| 7        | CB:95:00:20 | Rod Button                       |          |    | 突上棒ボタン      | ●     | ●      | ●     |  |  |
| 8        | CB:95:00:30 | Button Punching (Large)          |          |    | ボタンパンチング(大) | ●     | ●      | ●     |  |  |
| 9        | CB:95:00:50 | Pedal Rubber Bushing             |          |    | ペダルゴム軸      | ●     | ●      | ●     |  |  |
| 10       | EZ:50:00:00 | Rod Nut                          |          |    | 突上棒ナット      | ●     | ●      | ●     |  |  |
| 11       | EZ:50:00:10 | Rod Bolt                         |          |    | 突上棒球ボルト     | ●     | ●      | ●     |  |  |
| 12       | EZ:50:00:20 | Rod Connection Nut               |          |    | 突上棒連結ナット    | ●     | ●      | ●     |  |  |
| 13       | NB:50:17:60 | Leg Pipe Assy                    |          |    | 脚パイプ Ass'y  | ●     | ●      | ●     |  |  |
| 14       | AA:50:12:10 | Brace Locking Nut                |          |    | 調整ナット       | ●     | ●      | ●     |  |  |
| 15       | AA:50:12:50 | Brace                            |          |    | 脚ステイ        | ●     | ●      | ●     |  |  |
| 16       | AA:50:14:80 | Leg Anchor                       |          |    | 脚パイプ取付座板    | ●     | ●      | ●     |  |  |
| 17       | AA:50:18:00 | Stay Ring                        |          |    | 脚柱リング       | ●     | ●      | ●     |  |  |
| 18       | AA:50:19:20 | Foot                             |          |    | 調整座         | ●     | ●      | ●     |  |  |
| 19       | CB:50:09:40 | Knob Bolt                        |          |    | ノブネジ        | ●     | ●      | ●     |  |  |
| 20       | EB:03:00:70 | Flat Head Screw                  | M3 x 7   | YE | 皿小ネジ        | ●     | ●      | ●     |  |  |
| 21       | EB:25:02:00 | - do. -                          | M5 x 20  | CR | "           | ●     | ●      | ●     |  |  |
| 22       | EP:33:52:00 | Flat Head Wood Screw             | 3.5 x 20 | BL | 皿木ネジ        | ●     | ●      | ●     |  |  |

# 8. Pedal Lever, Rod (ペダルレバー, ロッド)





# 9. Damper Assy (ダンパー Assy)

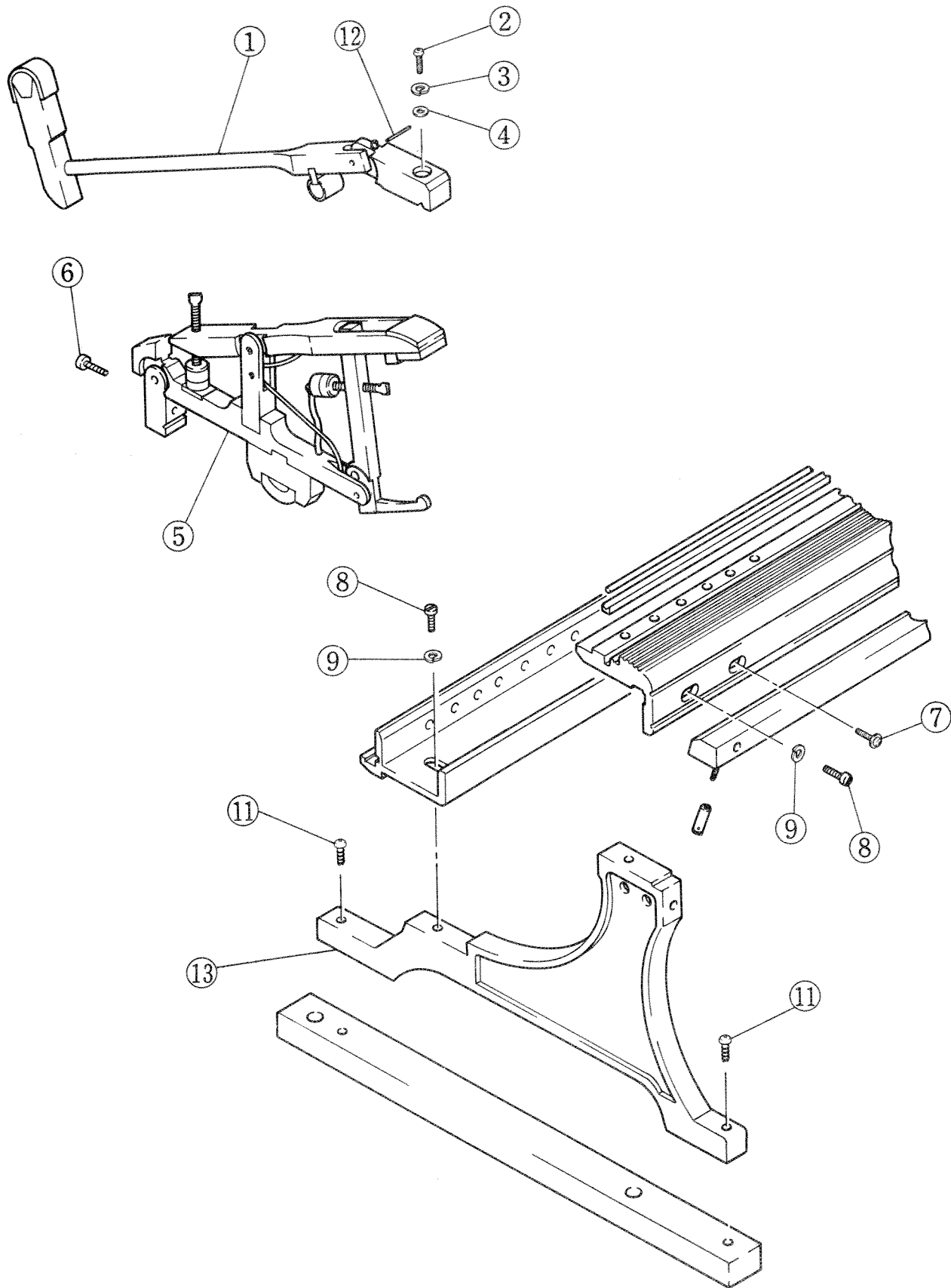


| Ref. No. | Part No.    | Description           |                        |                   | 部 品 名         | CP-70 | CP-70B | CP-80 |
|----------|-------------|-----------------------|------------------------|-------------------|---------------|-------|--------|-------|
| 1        | NB 97 01 10 | Damper Lever Assy     | CP-70, 70B<br>1E ~ 25E | CP-80<br>1A ~ 32E | ダンパーレバー Ass'y | ●     | ●      | ●     |
| "        | 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 Ass'y  | ●     | ●      | ●     |
| 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 Ass'y | ●     | ●      |       |
| "        | 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# | "            |        |       | ● |  |

| Ref. No. | Part No.    | Description      | 部 品 名                   | CP-70 | CP-70B | CP-80 |
|----------|-------------|------------------|-------------------------|-------|--------|-------|
| 11       | NB 50 92 70 | Damper Head Assy | Key # 27 B ダンパーヘッド Assy |       |        | ●     |
| "        | NB 50 92 80 | - do. -          | Key # 28 C "            |       |        | ●     |
| "        | NB 50 92 90 | - do. -          | Key # 29 C# "           |       |        | ●     |
| "        | NB 50 93 00 | - do. -          | Key # 30 D "            |       |        | ●     |
| "        | NB 50 93 10 | - do. -          | Key # 31 D# "           |       |        | ●     |
| "        | NB 50 93 20 | - do. -          | Key # 32 E "            |       |        | ●     |
| "        | NB 50 93 30 | - do. -          | Key # 33 F "            |       |        | ●     |
| "        | NB 50 93 40 | - do. -          | Key # 34 F# "           |       |        | ●     |
| "        | NB 50 93 50 | - do. -          | Key # 35 G "            |       |        | ●     |
| "        | NB 50 93 60 | - do. -          | Key # 36 G# "           |       |        | ●     |
| "        | NB 50 93 70 | - do. -          | Key # 37 A "            |       |        | ●     |
| "        | NB 50 93 80 | - do. -          | Key # 38 A# "           |       |        | ●     |
| "        | NB 50 93 90 | - do. -          | Key # 39 B "            |       |        | ●     |
| "        | NB 50 94 00 | - do. -          | Key # 40 C "            |       |        | ●     |
| "        | NB 50 94 10 | - do. -          | Key # 41 C# "           |       |        | ●     |
| "        | NB 50 94 20 | - do. -          | Key # 42 D "            |       |        | ●     |
| "        | NB 50 94 30 | - do. -          | Key # 43 D# "           |       |        | ●     |
| "        | NB 50 94 40 | - do. -          | Key # 44 E "            |       |        | ●     |
| "        | NB 50 94 50 | - do. -          | Key # 45 F "            |       |        | ●     |
| "        | NB 50 94 60 | - do. -          | Key # 46 F# "           |       |        | ●     |
| "        | NB 50 94 70 | - do. -          | Key # 47 G "            |       |        | ●     |
| "        | NB 50 94 80 | - do. -          | Key # 48 G# "           |       |        | ●     |
| "        | NB 50 94 90 | - do. -          | Key # 49 A "            |       |        | ●     |
| "        | NB 50 95 00 | - do. -          | Key # 50 A# "           |       |        | ●     |
| "        | NB 50 95 10 | - do. -          | Key # 51 B "            |       |        | ●     |
| "        | NB 50 95 20 | - do. -          | Key # 52 C "            |       |        | ●     |
| "        | NB 50 95 30 | - do. -          | Key # 53 C# "           |       |        | ●     |
| "        | NB 50 95 40 | - do. -          | Key # 54 D "            |       |        | ●     |
| "        | NB 50 95 50 | - do. -          | Key # 55 D# "           |       |        | ●     |
| "        | NB 50 95 60 | - do. -          | Key # 56 E "            |       |        | ●     |
| "        | NB 50 95 70 | - do. -          | Key # 57 F "            |       |        | ●     |
| "        | NB 50 95 80 | - do. -          | Key # 58 F# "           |       |        | ●     |
| "        | NB 50 95 90 | - do. -          | Key # 59 G "            |       |        | ●     |
| "        | NB 50 96 00 | - do. -          | Key # 60 G# "           |       |        | ●     |
| "        | NB 50 96 10 | - do. -          | Key # 61 A "            |       |        | ●     |
| "        | NB 50 96 20 | - do. -          | Key # 62 A# "           |       |        | ●     |
| "        | NB 50 96 30 | - do. -          | Key # 63 B "            |       |        | ●     |
| "        | NB 50 96 40 | - do. -          | Key # 64 C "            |       |        | ●     |
| "        | NB 50 96 50 | - do. -          | Key # 65 C# "           |       |        | ●     |
| "        | NB 50 96 60 | - do. -          | Key # 66 D "            |       |        | ●     |
| "        | NB 50 96 70 | - do. -          | Key # 67 D# "           |       |        | ●     |
| "        | NB 50 96 80 | - do. -          | Key # 68 E "            |       |        | ●     |
| "        | NB 50 96 90 | - do. -          | Key # 69 F "            |       |        | ●     |
| "        | NB 50 97 00 | - do. -          | Key # 70 F# "           |       |        | ●     |
| "        | NB 50 97 10 | - do. -          | Key # 71 G "            |       |        | ●     |
| "        | NB 50 97 20 | - do. -          | Key # 72 G# "           |       |        | ●     |
| "        | NB 50 97 30 | - do. -          | Key # 73 A "            |       |        | ●     |

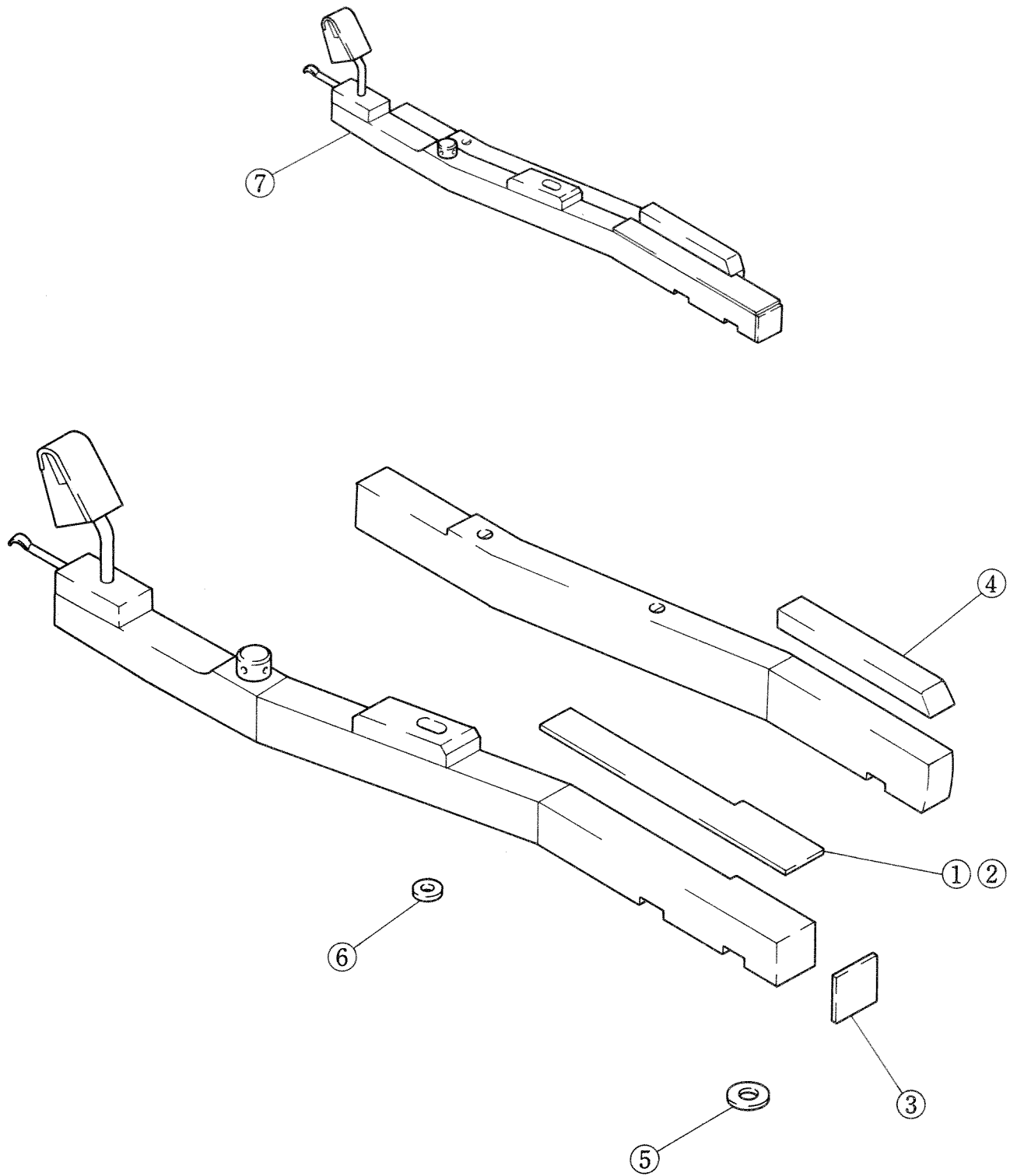
# 10. Hammer Assy, Whippen Assy (ハンマー, サポート Assy)





| Ref. No. | Part No.     | Description   |                        |                   | 部 品 名             | CP-70 | CP-70B | CP-80 |  |  |
|----------|--------------|---|------------------------|-------------------|-------------------|-------|--------|-------|--|--|
| 1        | NB: 97:00:50 | Hammer Assy   | CP-70, 70B<br>1~25 Key | CP-80<br>1~32 Key | ハンマー Ass'y        | ●     | ●      | ●     |  |  |
| "        | NB: 97:00:60 | - do. -   | 26~50 Key              | 33~58 Key         | "                 | ●     | ●      | ●     |  |  |
| "        | NB: 97:00:70 | - do. -   | 51~63 Key              | 59~71 Key         | "                 | ●     | ●      | ●     |  |  |
| "        | NB: 97:00:80 | - do. -   | 64~73 Key              | 72~80 Key         | "                 | ●     | ●      | ●     |  |  |
| "        | NB: 97:02:40 | - do. -   |                        | 81~82 Key         | "                 |       |        | ●     |  |  |
| "        | NB: 97:02:50 | - do. -   |                        | 83~88 Key         | "                 |       |        | ●     |  |  |
| 2        | AA: 97:01:90 | Shank Flange Screw                                      |                        |                   | シャンクフレンジスクリュー     | ●     | ●      | ●     |  |  |
| 3        | AA: 97:02:00 | Shank Flange Spring Washer                              |                        |                   | シャンクフレンジバネ座金      | ●     | ●      | ●     |  |  |
| 4        | AA: 97:02:10 | Shank Flange Washer                                     |                        |                   | シャンクフレンジ平座金       | ●     | ●      | ●     |  |  |
| 5        | NB: 97:00:10 | Whippen Assy  | CP-70, 70B<br>1~25 Key | CP-80<br>1~30 Key | サポート Ass'y        | ●     | ●      | ●     |  |  |
| "        | NB: 97:00:20 | - do. -   | 26~50 Key              | 31~50 Key         | "                 | ●     | ●      | ●     |  |  |
| "        | NB: 97:00:30 | - do. -   | 51~73 Key              | 51~70 Key         | "                 | ●     | ●      | ●     |  |  |
| "        | NB: 97:02:30 | - do. -   |                        | 71~88 Key         | "                 |       |        | ●     |  |  |
| 6        | AA: 97:01:80 | Whippen Flange Screw                                    |                        |                   | サポートフレンジスクリュー     | ●     | ●      | ●     |  |  |
| 7        | AA: 97:01:10 | Regulating Rail Screw                                   |                        |                   | レギュレチングレール取付スクリュー | ●     | ●      | ●     |  |  |
| 8        | AA: 97:01:50 | Bracket Screw   |                        |                   | ブラケット取付スクリュー      | ●     | ●      | ●     |  |  |
| 9        | AA: 97:01:60 | Bracket Spring Washer                                   |                        |                   | スプリングワッシャー        | ●     | ●      | ●     |  |  |
| 10       | CB: 95:00:70 | Regulating Button                                       |                        | W/Punching        | レギュレチングボタン        | ●     | ●      | ●     |  |  |
| 11       | EO: 03:52:50 | Round Head Wood Screw <small>(For Side Bracket)</small> | 3.5 x 25               | YE                | 丸木ネジ              | ●     | ●      | ●     |  |  |
| "        | EO: 03:53:20 | - do. - <small>(For Middle Bracket)</small>             | 3.5 x 32               | YE                | "                 | ●     | ●      | ●     |  |  |
| 12       | AA: 97:02:70 | Center Pin  | #20                    | 1.25              | センターピン            | ●     | ●      | ●     |  |  |
| "        | AA: 97:02:80 | - do. -   | #21                    | 1.30              | "                 | ●     | ●      | ●     |  |  |
| "        | AA: 97:02:90 | - do. -   | #22                    | 1.35              | "                 | ●     | ●      | ●     |  |  |
| "        | AA: 97:03:00 | - do. -   | #23                    | 1.40              | "                 | ●     | ●      | ●     |  |  |
| "        | AA: 97:03:10 | - do. -   | #24                    | 1.45              | "                 | ●     | ●      | ●     |  |  |
| "        | AA: 97:03:20 | - do. -   | #25                    | 1.50              | "                 | ●     | ●      | ●     |  |  |
| 13       | BX: 50:00:10 | Action Bracket (Middle)                                 |                        |                   | アクションブラケット(小)     | ●     | ●      | ●     |  |  |
| "        | BX: 50:00:20 | - do. - (Side)  |                        |                   | " (大)             | ●     | ●      | ●     |  |  |

# 11. Key Assy (鍵盤 Assy)

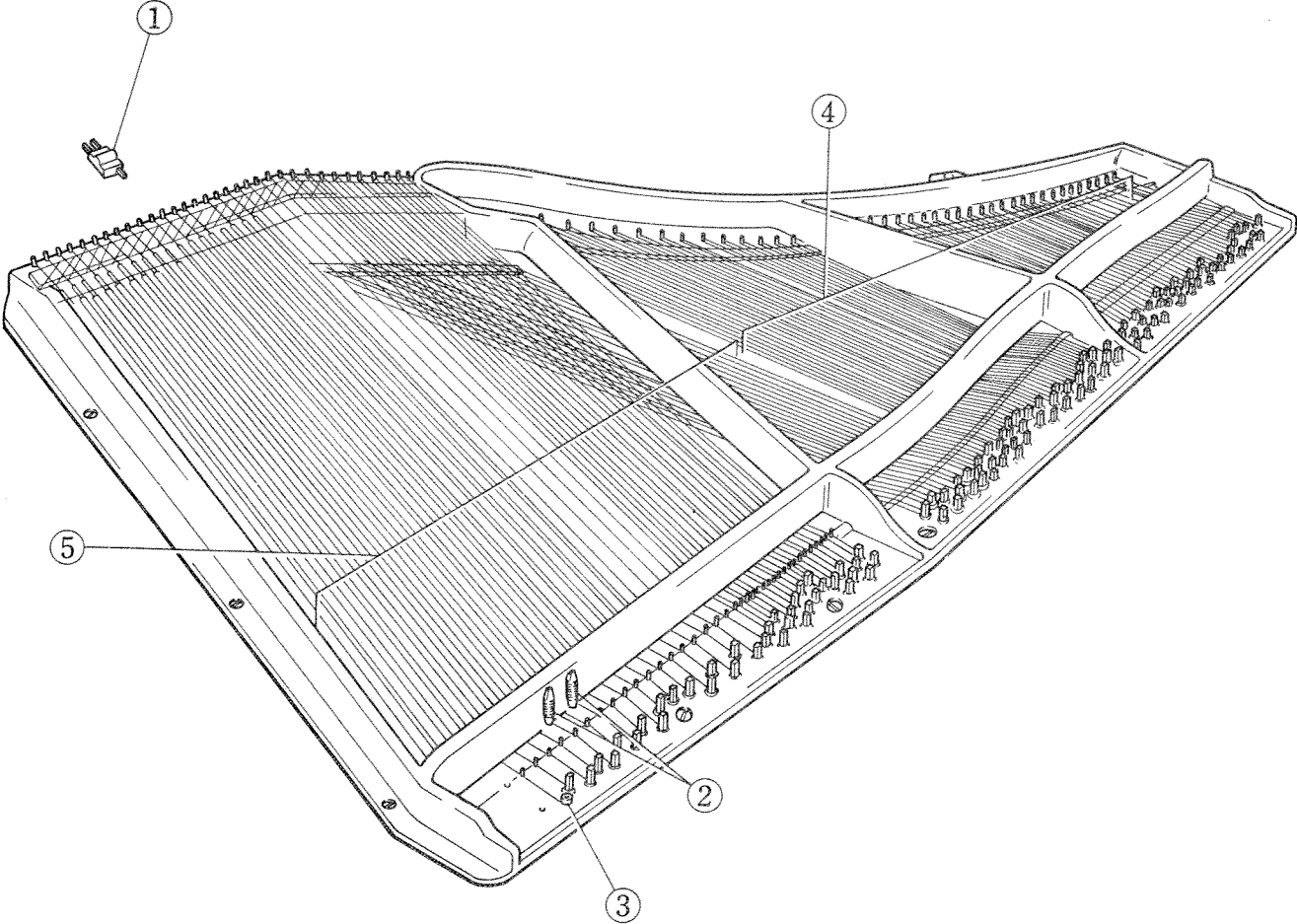


| Ref. No. | Part No.    | Description            | 部 品 名               | CP-70           | CP-70B | CP-80 |   |
|----------|-------------|------------------------|---------------------|-----------------|--------|-------|---|
| 1        | CB 95:01:80 | White Key Top (Octave) | C, D, E, F, G, A, B | 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 |                         |           | ●      | ●     |   |   |
| "        | BD:50:05:10 | - do. -              | ⇒ BD5000 20             | ●         |        |       |   |   |
| 2        | AA:50:17:50 | Tuning Pin           | #3 φ7.10                | ●         | ●      | ●     |   |   |
| "        | 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              | ●         | ●      | ●     |   |   |
| "        | 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<br>43K            | 芯         |        | ●     |   |   |
| "        | MV:00:00:40 | - do. - #17          | CP-70, 70B<br>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)              | 卷 線   | ●      |       |  |  |
| "        | NB 50 12 00 | -- do. --   | Key # 24 D <sup>#</sup> (Left)  | "     | ●      |       |  |  |
| "        | NB 50 12 10 | -- do. --   | Key # 24 D <sup>#</sup> (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 <sup>#</sup> (Left)  | "     | ●      |       |  |  |
| "        | NB 50 12 70 | -- do. --   | Key # 27 F <sup>#</sup> (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 <sup>#</sup> (Left)  | "     | ●      |       |  |  |
| "        | NB 50 13 10 | -- do. --   | Key # 29 G <sup>#</sup> (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 <sup>#</sup> (Left)  | "     | ●      |       |  |  |
| "        | NB 50 13 50 | -- do. --   | Key # 31 A <sup>#</sup> (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 <sup>#</sup> (Left)  | "     | ●      |       |  |  |
| "        | NB 50 14 10 | -- do. --   | Key # 34 C <sup>#</sup> (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 <sup>#</sup> (Left)  | "     | ●      |       |  |  |
| "        | NB 50 14 50 | -- do. --   | Key # 36 D <sup>#</sup> (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 <sup>#</sup>          | "     |        | ●     |  |  |
| "        | NB 50 40 60 | -- do. --   | Key # 4 G                       | "     |        | ●     |  |  |
| "        | NB 50 40 70 | -- do. --   | Key # 5 G <sup>#</sup>          | "     |        | ●     |  |  |
| "        | NB 50 40 80 | -- do. --   | Key # 6 A                       | "     |        | ●     |  |  |
| "        | NB 50 40 90 | -- do. --   | Key # 7 A <sup>#</sup>          | "     |        | ●     |  |  |
| "        | NB 50 41 00 | -- do. --   | Key # 8 B                       | "     |        | ●     |  |  |
| "        | NB 50 41 10 | -- do. --   | Key # 9 C                       | "     |        | ●     |  |  |
| "        | NB 50 41 20 | -- do. --   | Key # 10 C <sup>#</sup>         | "     |        | ●     |  |  |
| "        | NB 50 41 30 | -- do. --   | Key # 11 D                      | "     |        | ●     |  |  |
| "        | NB 50 41 40 | -- do. --   | Key # 12 D <sup>#</sup>         | "     |        | ●     |  |  |
| "        | NB 50 41 50 | -- do. --   | Key # 13 E                      | "     |        | ●     |  |  |
| "        | NB 50 41 60 | -- do. --   | Key # 14 F                      | "     |        | ●     |  |  |
| "        | NB 50 41 70 | -- do. --   | Key # 15 F <sup>#</sup>         | "     |        | ●     |  |  |
| "        | 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 <sup>#</sup> (Left)  | "     |        | ●     |  |  |
| "        | NB 50 42 10 | -- do. --   | Key # 17 G <sup>#</sup> (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 <sup>#</sup> (Left)  | "     |        | ●     |  |  |
| "        | NB 50 42 50 | -- do. --   | Key # 19 A <sup>#</sup> (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          | "     | "      |       | ● |  |





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