

JV-50/35

EXPANDABLE SYNTHESIZER

SERVICE NOTES

First Edition

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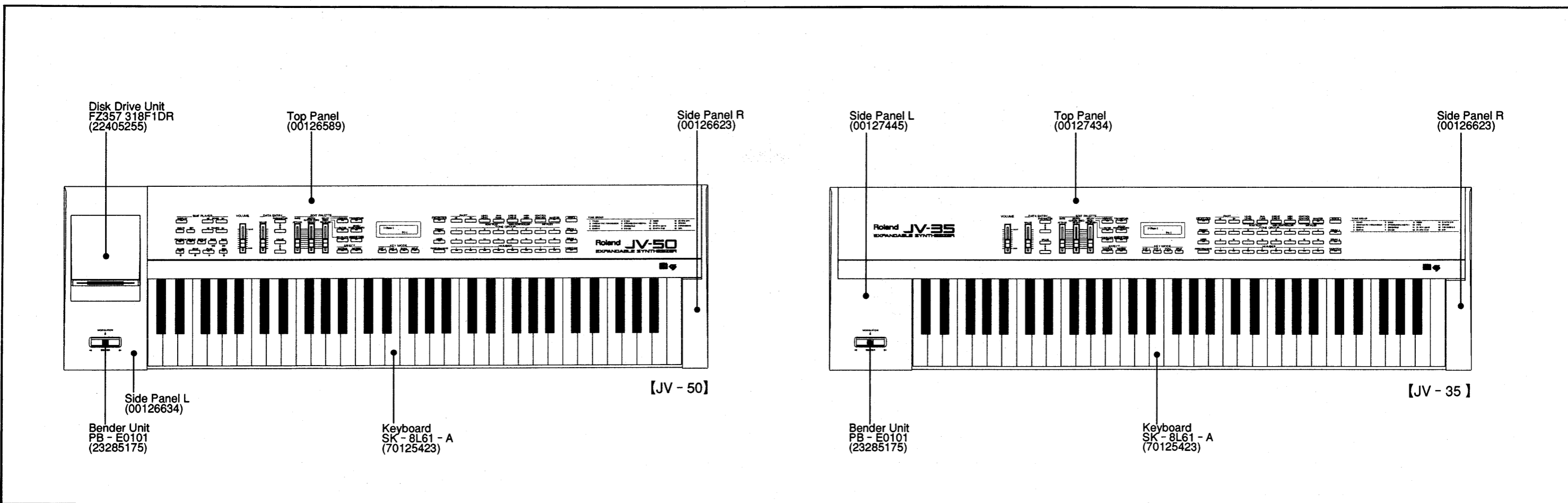
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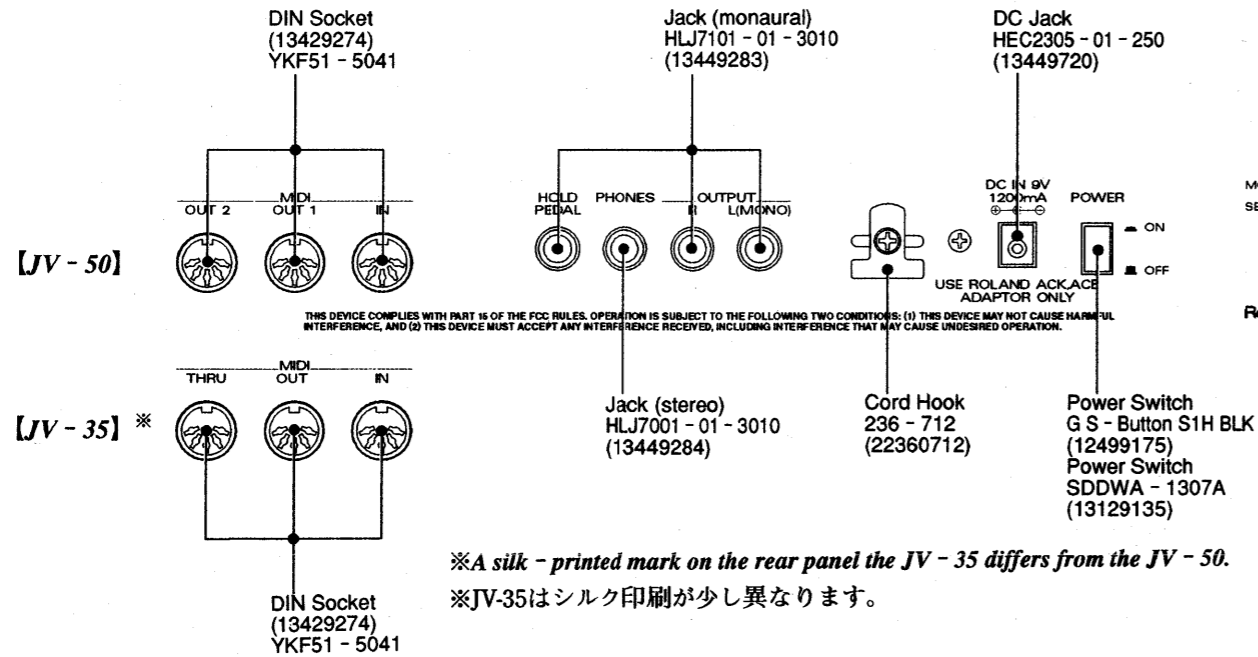
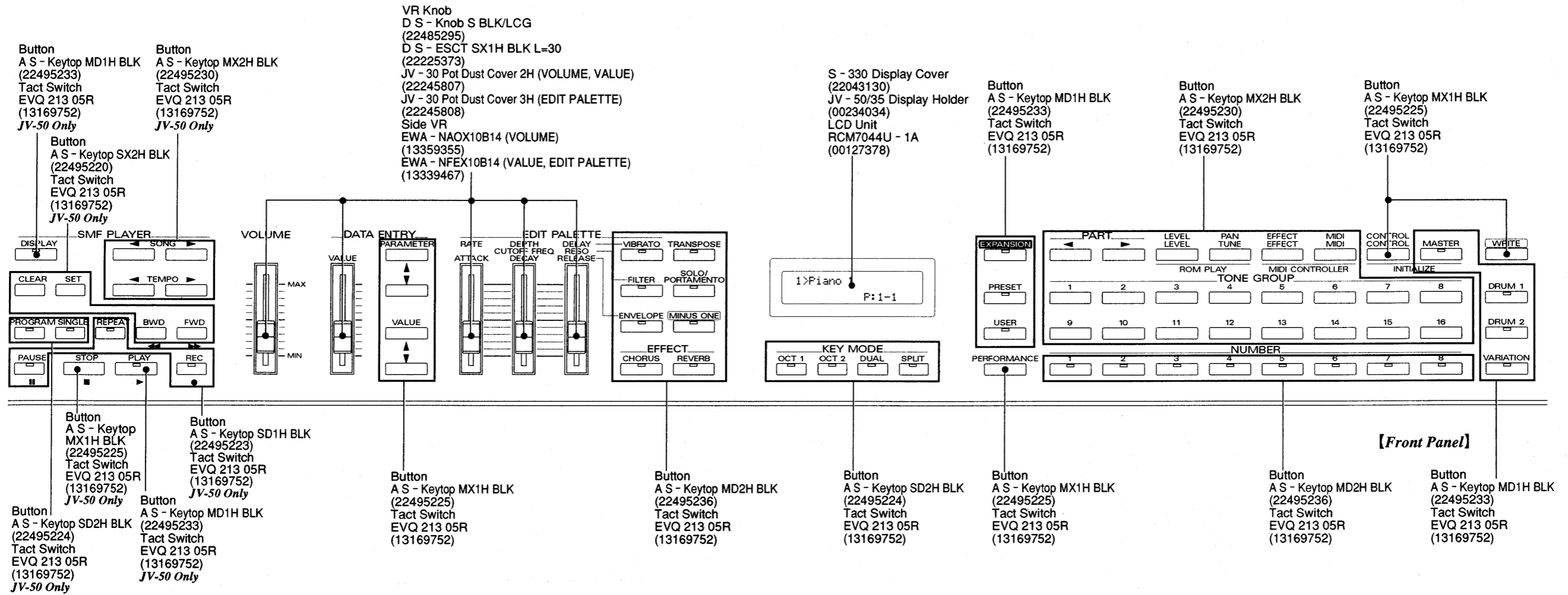
SPECIFICATION / 仕様

- Keyboard : 61 Keys (with velocity)
- Number of parts : 16 (Two parts can be set in the drum part)
- Maximum Polyphony : 28 (Voices)
- Effects : Reverb, Chorus
- Internal Memory : Tone Preset : 226
User : 256
Drum sets Preset : 9
User : 9
Performance: 8
VE- JV1E: (JV-50E/35E only)
Patch Preset : 512
User : 256
Rhythm sets Preset : 8
User : 8
- Display : 16 characters, 2 line
- SMF Player section (JV-50 only)
 - Number of tracks : Format 0: 1 (16 channels)
Format 1: 17 (16 channels per track)
 - Time base (when recording) : 96, 120, 192, 240
 - Data format : Playback: Standard MIDI File (Format 0 or 1)
Recording: Standard MIDI File (Format 0)
 - Tempo : 5-260
 - Time signature (when recording) : 4/4
 - Disk drive : 3.5 inch, 2DD micro floppy disks only
- Connectors : Audio output jack x 2 (L, R)
Headphone jack
Hold pedal jack
MIDI connectors JV-50: IN, OUT1, OUT2
JV-35: IN, OUT, THRU

- Dimensions : JV-50 : 1011(W) x 289(D) x 92(H)mm
39-13/16(W) x 11-7/16(D) x 3-5/8(H)inch
JV-35 : 1011(W) x 289(D) x 83(H)mm
39-13/16(W) x 11-7/16(D) x 3-5/16(H)inch
- Weight : JV-50 : 6.6 kg/14 lbs 9 oz
JV-35 : 6.2 kg/13 lbs 11 oz
- Power consumption : JV-50 : 1200mA
JV-35 : 1000mA
- Accessories : AC Adaptor JV-35 : ACI-100J (100V) (12449603)
ACI-120J (117V) (12449604)
ACI-220J (230V) (12449605)
ACB-240 (E) (240V) (12449564)
ACB-240 (A) (240V) (12449549)
JV-50 : ACK-100 (100V) (12449630)
ACK-120 (117V) (12449631)
ACB-220 (230V) (12449548)
ACB-240 (E) (240V) (12449564)
ACB-240 (A) (240V) (12449549)
Owner's Manual set Japanese (70121356)
English (70128190)
Audio Cable (PJ-1M) x 1 (23430675S0)
3.5 inch, 2DD micro floppy disk (JV-50 only)(00234145)
- Optional Items : GS Voice Expansion :VE-GS1
JV Voice Expansion :VE-JV1
Pedal Switch :DP-2/6, FS-5U (BOSS)
Keyboard Stand :KS-8
Stereo Headphone :RH-20/80/120
MIDI/SYNC Cable :MSC-07/15/25/50/100
Monitor Amp :MA-12 (BOSS)



PANEL / パネル図



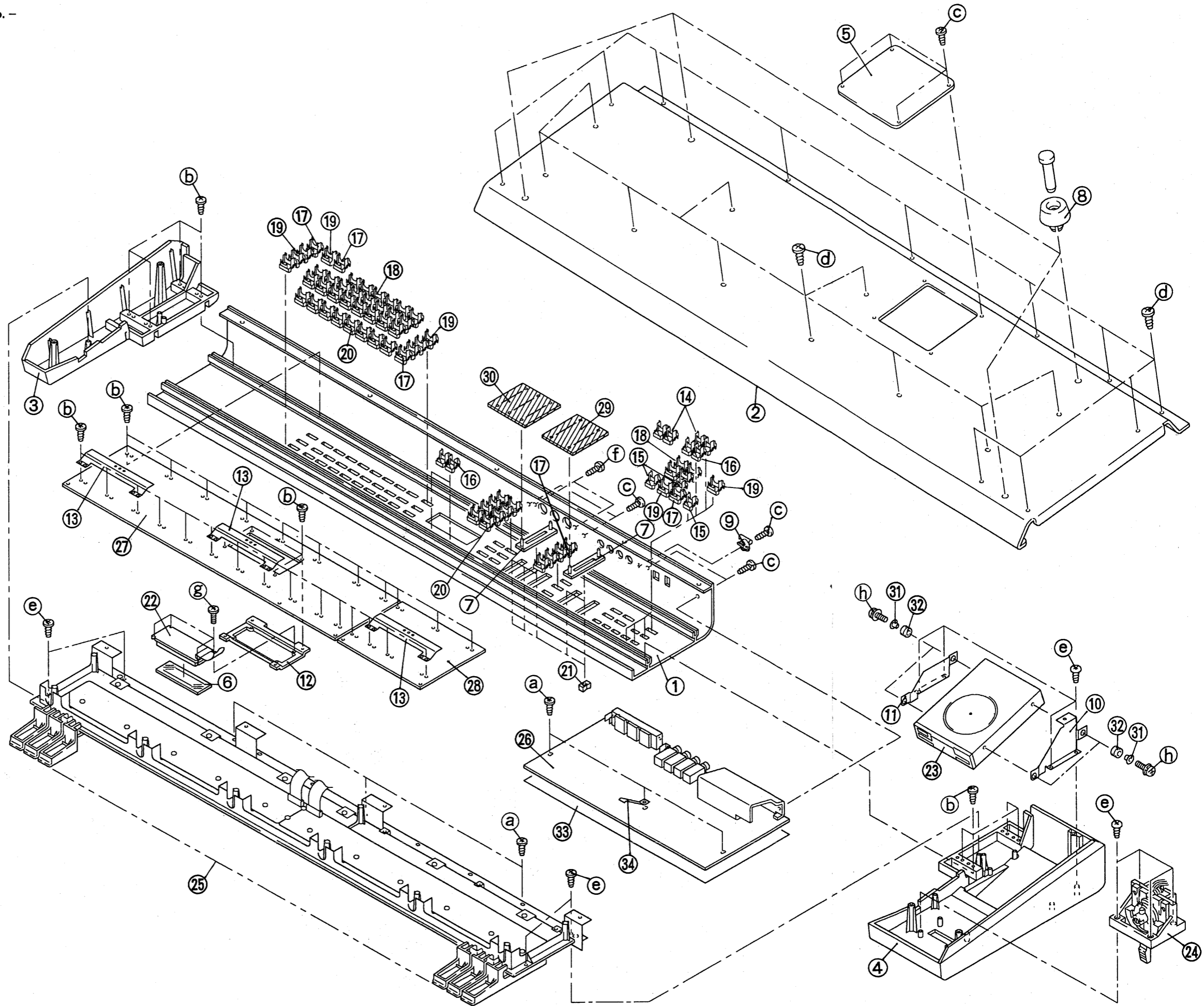
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

EXPLODED VIEW / 分解図【JV-50】

| No. - PARTS NAME - | - PARTS No. - |
|------------------------------------|---------------|
| ① JV-50 Top Panel | 00126589 |
| ② JV-50/35 Bottom Cover | 00126601 |
| ③ JV-50/35 Side Panel R | 00126623 |
| ④ JV-50 Side Panel L | 00126634 |
| ⑤ JU-06B EXP Cover 202-583 | 22025583 |
| ⑥ S-330 Display Cover | 22043130 |
| ⑦ D S-ESCT SX1H BLK L = 30 | 22225373 |
| ⑧ Rubber Foot FF-018 BLK | 12359139 |
| ⑨ Cord Hook 236-712 | 22360712 |
| ⑩ JV-50 DD Holder L | 00126667 |
| ⑪ JV-50 DD Holder R | 00126678 |
| ⑫ JV-50/35 Display Holder | 00234034 |
| ⑬ IZ06A Panel Holder | 22205900 |
| ⑭ A S-Keytop SX2H BLK | 22495220 |
| ⑮ A S-Keytop SD1H BLK | 22495223 |
| ⑯ A S-Keytop SD2H BLK | 22495224 |
| ⑰ A S-Keytop MX1H BLK | 22495225 |
| ⑱ A S-Keytop MX2H BLK | 22495230 |
| ⑲ A S-Keytop MD1H BLK | 22495233 |
| ⑳ A S-Keytop MD2H BLK | 22495236 |
| ㉑ D S-Knob S BLK/LCG | 22485295 |
| ㉒ LCD Unit RCM7044U-1A | 00127378 |
| ㉓ FDD Unit FZ-357 318F1DR | 22405255 |
| ㉔ Bender Unit PB-E0101 | 23285157 |
| ㉕ Keyboard SK-8L61-A | 70125423 |
| ㉖ JV-50 Main Board Assy | 70128390 |
| ㉗ JV-50 Switch Board Assy | 70121467 |
| ㉘ JV-50 Sequencer Panel Board Assy | 70121478 |
| ㉙ JV-30 Pot Dust Cover 2H | 22245807 |
| ㉚ JV-30 Pot Dust Cover 3H | 22245808 |
| ㉛ Collar | 22165134 |
| ㉜ D-20 DD Insulator | 22265242 |
| ㉝ JV-50/35 Shield Cover | 00126690 |
| ㉞ KR-650 EMI Leaf 345-325 | 23455325 |

- SCREWS -

- Ⓐ 3 × 6mm B.Tight Binding Cm
- Ⓑ 3 × 8mm B.Tight Binding Cm
- Ⓒ 3 × 8mm B.Tight Binding BC
- Ⓓ 4 × 8mm B.Tight Binding BC
- Ⓔ 3 × 8mm P.Tight Pan Cm
- Ⓕ 3 × 8mm P.Tight Pan BC
- Ⓖ 3 × 6mm S.Tight Binding Cm
- Ⓗ 3 × 10mm W Sems Cm



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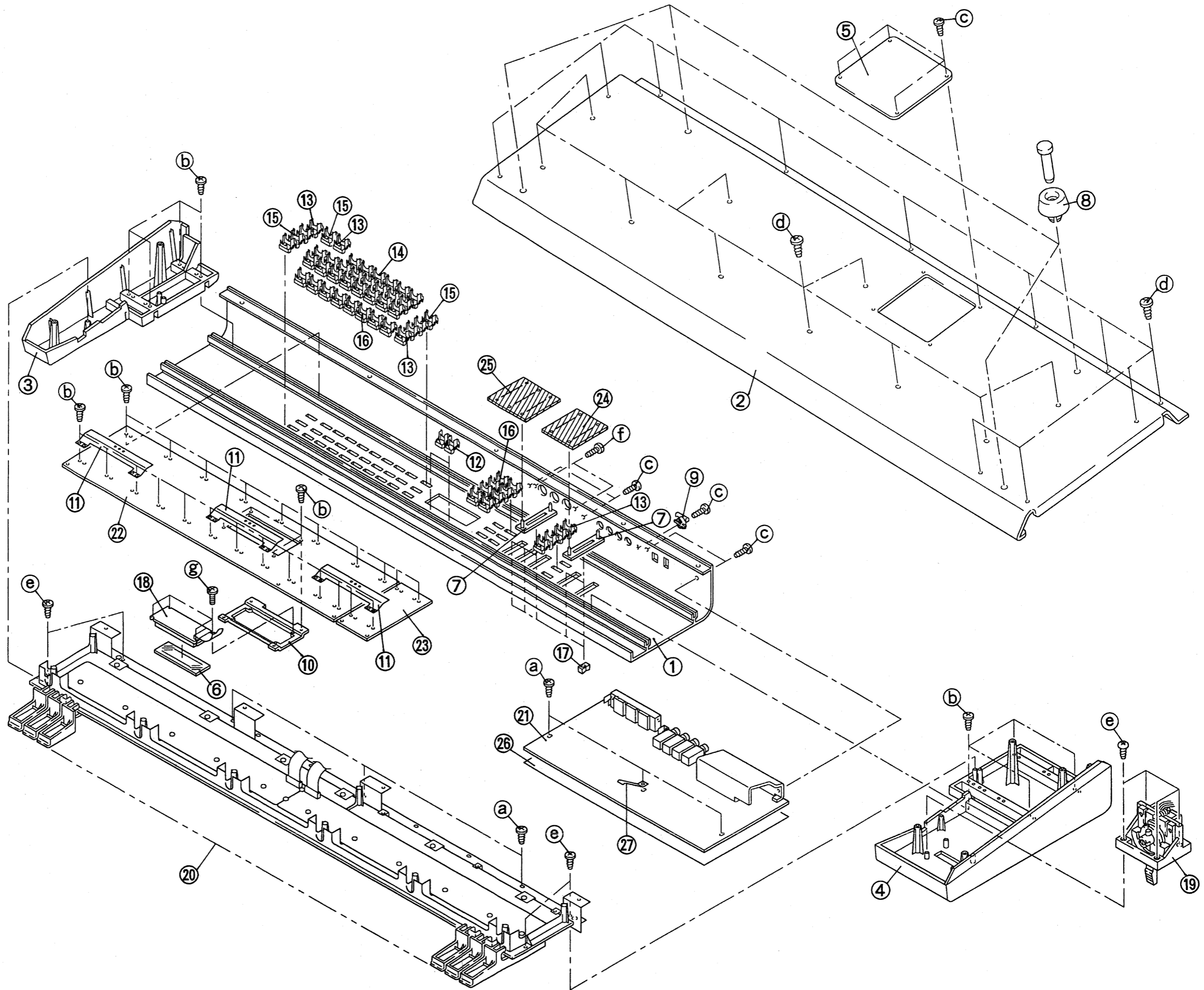
EXPLODED VIEW / 分解图 【JV-35】

No. - PARTS NAME - PARTS No. -

- ① JV-35 Top Panel:00127434
- ② JV-50/35 Bottom Cover:00126601
- ③ JV-50/35 Side Panel R:00126623
- ④ JV-35 Side Panel L:00127445
- ⑤ JU-06B EXP Cover 202-583:22025583
- ⑥ S-330 Display Cover:22043130
- ⑦ D S-ESCT SX1H BLK L=30:22225373
- ⑧ Rubber Foot FF-018 BLK:12359139
- ⑨ Cord Hook 236-712:22360712
- ⑩ JV-50/35 Display Holder:00234034
- ⑪ IZ06A Panel Holder:22205900
- ⑫ A S-Keytop SD2H BLK:22495224
- ⑬ A S-Keytop MX1H BLK:22495225
- ⑭ A S-Keytop MX2H BLK:22495230
- ⑮ A S-Keytop MD1H BLK:22495233
- ⑯ A S-Keytop MD2H BLK:22495236
- ⑰ D S-Knob S BLK/LCG:22485295
- ⑱ LCD Unit RCM7044U-1A:00127378
- ⑲ Bender Unit PB-E0101:23285157
- ⑳ Keyboard SK-8L61-A:70125423
- ㉑ JV-35 Main Board Assy:70122145
- ㉒ JV-35 Switch Board Assy:70121390
- ㉓ JV-35 Volume Board Assy:70121401
- ㉔ JV-30 Pot Dust Cover 2H:22245807
- ㉕ JV-30 Pot Dust Cover 3H:22245808
- ㉖ JV-50/35 Shield Cover:00126690
- ㉗ KR-650 EMI Leaf 345-325:23455325

- SCREWS -

- Ⓐ 3 × 6mm B.Tight Binding Cm
- Ⓑ 3 × 8mm B.Tight Binding Cm
- Ⓒ 3 × 8mm B.Tight Binding BC
- Ⓓ 4 × 8mm B.Tight Binding BC
- Ⓔ 3 × 8mm P.Tight Pan Cm
- Ⓕ 3 × 8mm P.Tight Pan BC
- Ⓖ 3 × 6mm S.Tight Binding Cm

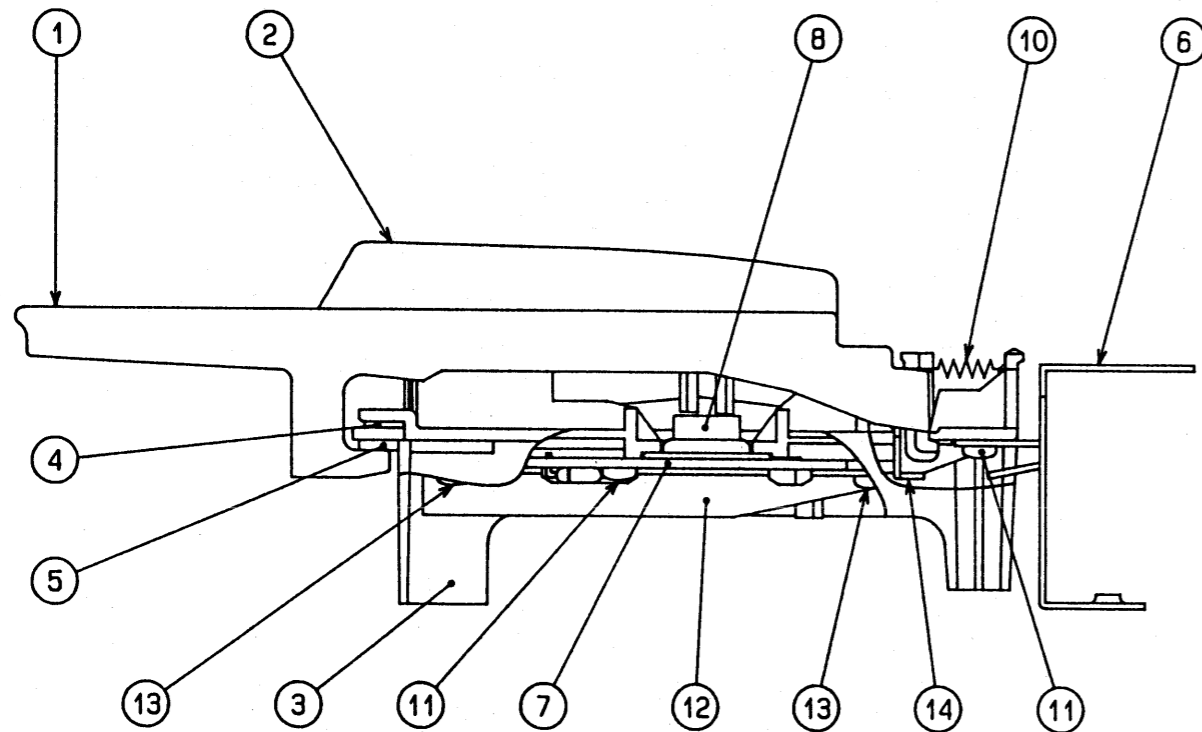


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KEYBOARD EXPLODED VIEW / 鍵盤分解図

KEYBOARD PARTS LIST "SK-8L61-A"

| NO. | PARTS No. | PARTS NAME |
|-----|------------|------------------------------------|
| 1. | 32575347 | SK-8 N-Key A |
| | 32575348 | SK-8 N-Key E/B |
| | 32575349 | SK-8 N-Key C/F |
| | 32575350 | SK-8 N-Key D |
| | 32575351 | SK-8 N-Key G |
| | 32575353 | SK-8 N-Key C'/F' |
| 2. | 32575355 | SK-8 Sharp Key |
| 3. | 00129823 | SK-8L CHASSIS 61P |
| 4. | 00344089 | SK-8 CUSHION 61P-D |
| 5. | 00129812 | SK-8 CUSHION 61P-C |
| 6. | 00126612 | JV-KEYBOARD ANGLE |
| 7. | 7626723001 | SK-861-A PCB 29P Hi Assy |
| | 7626722001 | SK-861-A PCB 32P Low Assy |
| 8. | 22185253 | SK-8 Rubber Switch 12P |
| 9. | 22185254 | SK-8 Rubber Switch 13P |
| 10. | 40126290 | SK-8L Spring |
| 11. | 40011312 | P TITE BIDDING HEAD SCREW 3 x 8 BC |
| 12. | 00344090 | SK-8L CHASSIS ANGLE |
| 13. | 40011267 | P TITE BIDDING HEAD SCREW 3 x 8 BC |
| 14. | 00345490 | SK-8L Stopper 12P |
| | 00345501 | SK-8L Stopper 13P |



1. Attaching the PCB

NOTE

Even though B TITE BINDING HEAD SCREWS are used for the SK-8, be sure to use P TITE BINDING SCREWS for the SK-8L. If you use B TITE BINDING HEAD SCREWS by mistake, it may cause damage to the screw holes, possibly requiring replacement of the entire chassis.

Required Parts

| PARTS NO. | PARTS NAME | 員数 |
|------------|------------------------------------|----|
| 7626722001 | SK-861-A PCB 32P LOW ASSY | 1 |
| 7626723001 | SK-861-A PCB 29P HI ASSY | 1 |
| 22185253 | SK-8 RUBBER SWITCH 12P | 4 |
| 22185254 | SK-8 RUBBER SWITCH 13P | 1 |
| 40011312 | P TITE BIDDING HEAD SCREW 3 x 8 BC | 13 |

1) First turn the chassis upside down, making sure that the right and left sides are not positioned opposite one another. Next, as shown in Fig. 1, place 4 pieces of RUBBER SWITCH 12P in turn, on the chassis from the left end (the bass side of the keyboard), aligning them with the long holes provided on the chassis. At this point, be sure that the air-escape grooves of each RUBBER SWITCH are positioned at the respective air-escape grooves on the chassis. (See Fig. 2.) In the same manner, place RUBBER SWITCH 13P on the right side of the chassis (the treble side).

1. 基板の取り付け方

注意

SK-8ではBタイトを使用していますが、SK-8Lでは必ずPタイトを使用して下さい。誤ってBタイトを使用しますとビス穴を破損し、シャーシ交換が必要となります。

必要部品

1) まず、シャーシを左右が逆にならないように裏返しにします。次に、Fig.1に示すように左側(鍵の低音側)より RUBBER SWITCH 12Pを長穴にあわせて順に4ヶおいていきます。この際、RUBBER SWITCHとシャーシの空気溝の位置が合うように注意して下さい。(Fig.2参照のこと) 右側(高音側)にはRUBBER SWITCH 13Pを同様におきます。

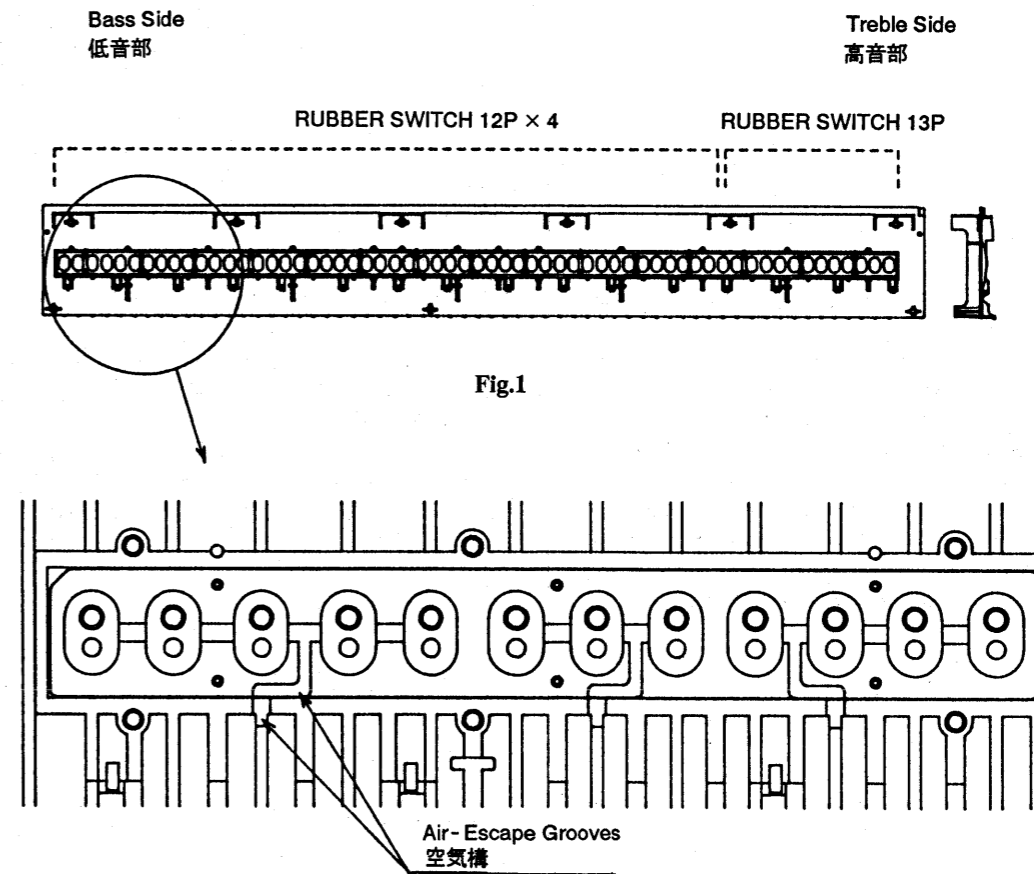


Fig.1

Fig.2

2) Next, aligning the cutouts in the PCB with the lugs on the chassis, put one side of the PCB into the chassis hooks. Place the PCB on the chassis so that the chassis positioning pins fit into the PCB positioning holes. (See Fig. 3.) At this point, the chassis positioning reference pin should first be fitted into the hole. There are two PCBs, LOW and HI, as shown in Fig. 4. The chassis positioning reference pins are located near the connector on each of the LOW and HI PCBs.

2) 次に、PCBの切り欠き部とシャーシの凸部を目印として、シャーシフック部にPCB端面をはさみ込み、シャーシ位置決めピンにPCBの位置決め穴がはまるようにPCBをおきます。(Fig.3参照)このとき、シャーシ位置決め基準ピンを最初に合わせるようにして下さい。PCBはFig.4で示されるようにLOW、HIの2枚で構成されており、シャーシ位置決め基準ピンはLOW、HIともにコネクタ付近に配置されています。

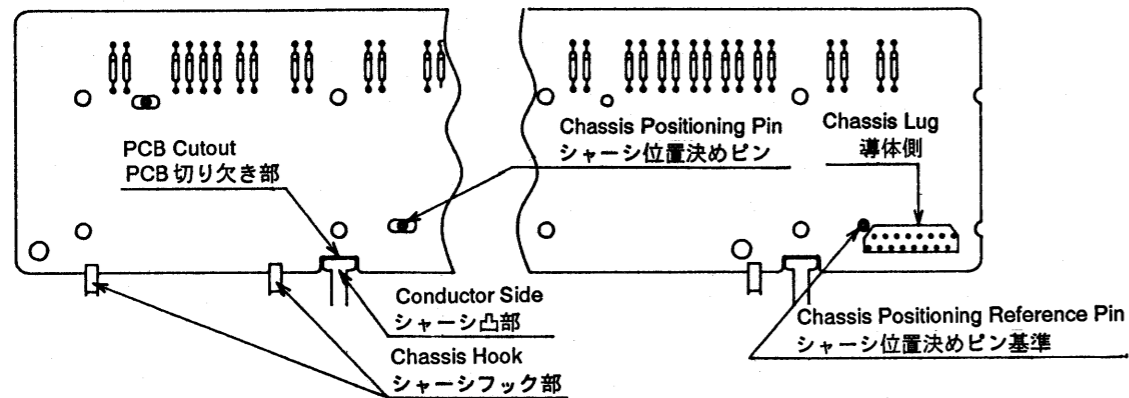


Fig.3

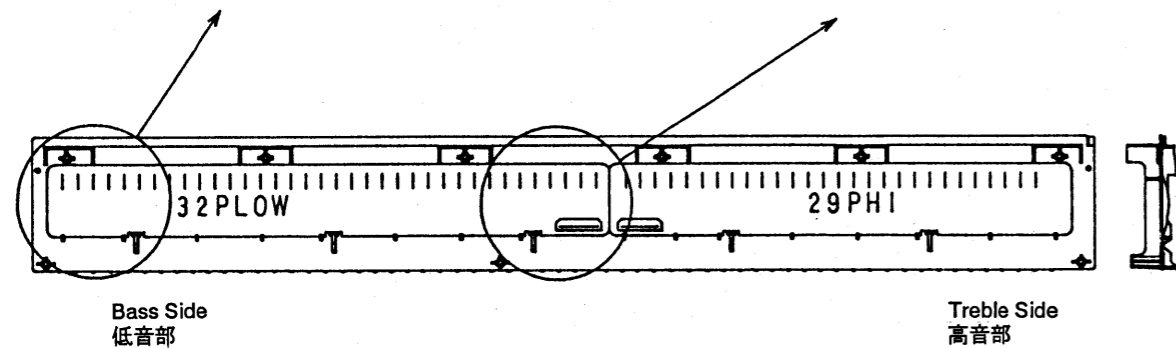
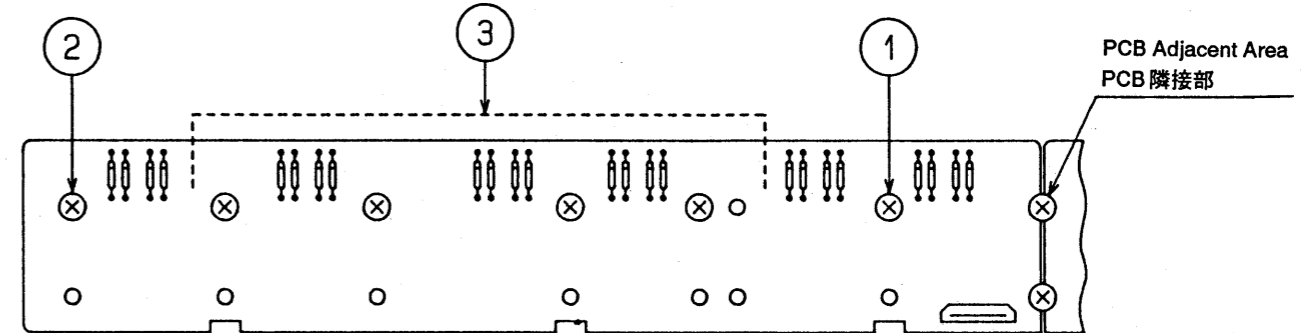


Fig.4

3) Then, using the P TITE BIDDING HEAD SCREWS, fasten the LOW and HI PCBs to the chassis from the center of the keyboard, that is, from ① for the LOW PCB as shown in Fig. 5. While you are screwing down the PCB, it may float from the chassis. To avoid this, after screwing in the PCB at the center of the keyboard ①, screw down the opposite end ②, before screwing in other areas in the middle of the PCB ③. (See Fig. 5.) In addition, the PCBs may be warped by soldering, etc. It is recommended that each PCB be fastened with screws while holding down the middle of the PCB lightly. Finally, screw down the adjacent area between the LOW and HI PCBs.

3) 次に、TAP TITE SCREWSでPCB LOW、HIをととも鍵盤中央部1からねじを止めていきます。ねじ止めによって、PCBがシャーシより浮き上がってしまうことがあるため、中央部1をねじ止めたのち端部2を先に締結し、最後にPCB中央部3をねじ止めます。(Fig.5参照)基板がハンダ付け等によってソリを生じていることがあるため中央部を軽くおさえながらねじ止めするとよいでしょう。最後にPCBのLOW、HIの隣接部もねじ止めます。



⊕ : ねじ止め箇所 ○ : ねじ止めの必要はありませんがシャーシフックが破損した場合、使用して下さい。
⊕ : Screw positions ○ : Use of these screw holes is not necessary, but, if the chassis hooks are broken, use these holes for inserting screws.

Fig.5

(Example: screw installation sequence for the 32P "LOW" PCB)/(例 32P LOW ねじ止め順序)

NOTE

When you use an electric screwdriver, take sufficient care to control the driving torque. (Optimum driving torque: 8kgf·cm) If excessive torque is applied, the PCB and/or the screw holes on the chassis may crack or break.

注意

電気ドライバー等を使用する際は、トルク管理に十分注意してください。(最適締付トルク:8KGF·CM) 過大な力が加わると、PCB、シャーシビス穴が割れまたは欠けるおそれがあります。

2. Attaching the Chassis Brace

Always use the following screws to attach the chassis brace to the chassis properly. If you use longer screws than P TITE BINDING HEAD SCREWS 3 × 6 CM, they may break through the screw holes, leading to malfunction of the keyboard.

2. シャーシアングルの取付け方法

シャーシアングルの取付けには必ず下記のビスを使用して下さい。3×6より長いビスを使用するとビス穴を突き破り、鍵盤のタッチ不良を引き起こします。

Required Parts

必要部品

| PARTS No. | PARTS NAME | 員数 |
|-----------|------------------------------------|----|
| 00344090 | SK-8 CHASSIS ANGLE | 5 |
| 40011267 | P TITE BINDING HEAD SCREW 3 × 6 CM | 10 |

After you have installed the PCBs, fasten the chassis brace with screws. It is recommended that the brace be screwed down in the order shown in Fig. 6, as this prevents the brace from rotating.

PCB取付け後、シャーシアングルをネジ止めします。このときFig.6のような順にネジを取付けるとアングルの回転を防ぐことができます。

NOTE

When you use an electric screwdriver, take sufficient care to control the driving torque. (Optimum driving torque: 6kgf·cm) If excessive torque is applied, the PCB and/or the screw holes on the chassis may crack or break.

注意

電気ドライバー等を使用する際は、トルク管理に十分注意してください。(最適締付トルク:6KGF·CM) 過大な力が加わると、PCB、シャーシビス穴が割れまたは欠けるおそれがあります。

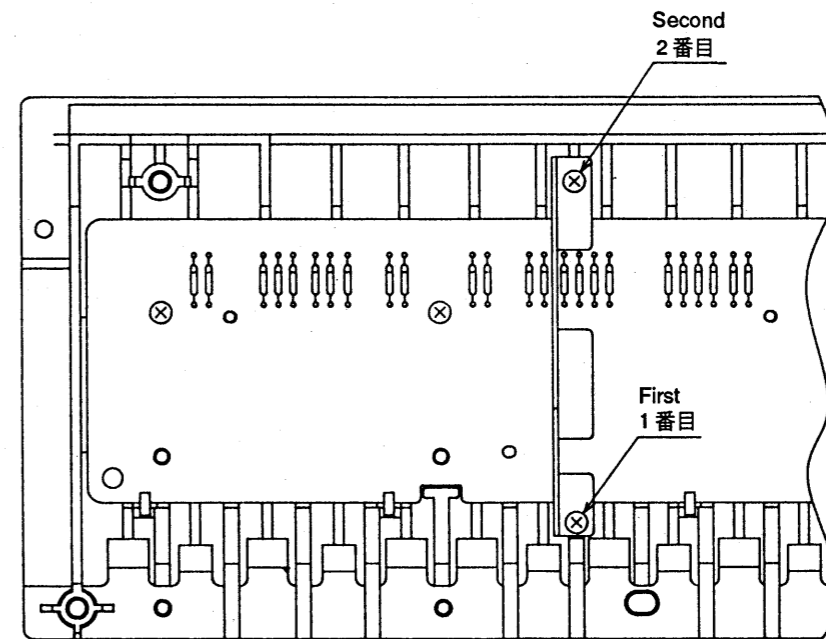


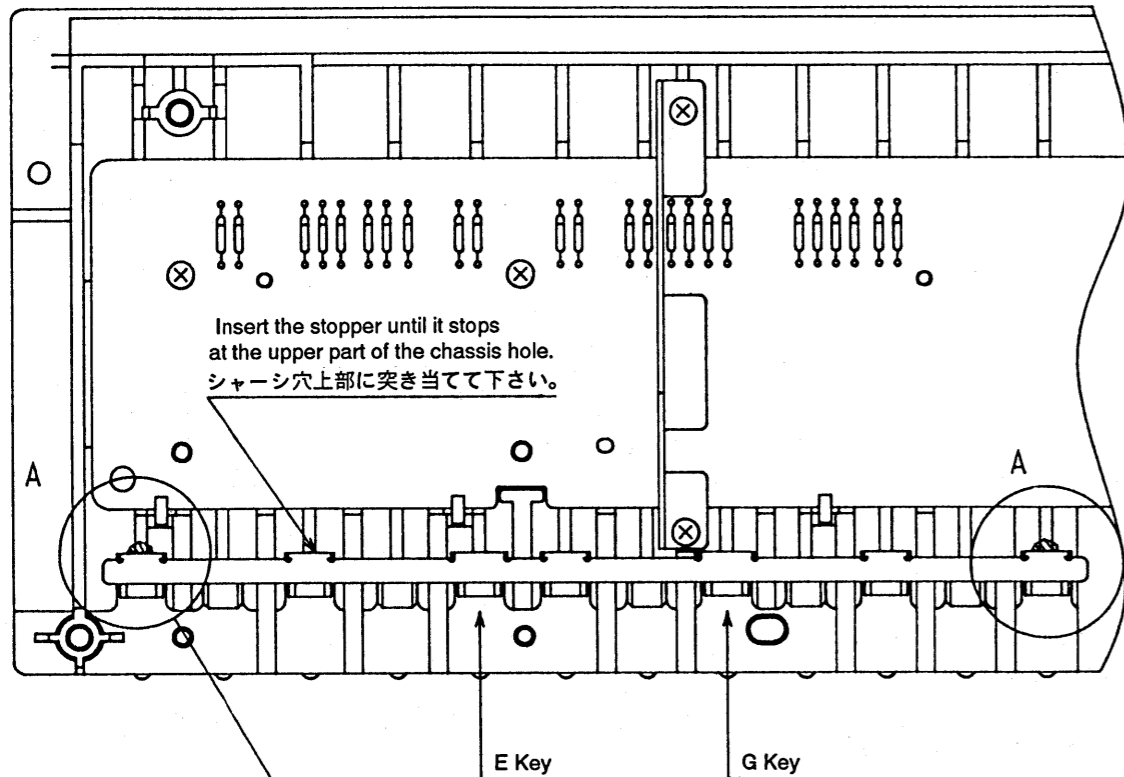
Fig.6

4) Attaching the stopper

As Fig. 11 shows, press the stopper into the E and G keys, being careful not to deform the stopper. If a deformed stopper is installed, it may gradually come off from the chassis, possibly making contact with the main board, etc. This may cause serious problems and therefore must be avoided.

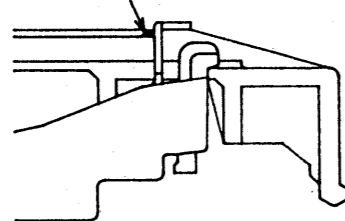
Then apply adhesive to area A (chassis holes) in the figure and to the inserted end of the chassis holes. At this point, care should be taken in applying adhesive, because if it adheres to the key fulcrum section, a detrimental effect on the movement of the key will result.

4) まず、Fig.11のようにE key、G keyの部分を圧入しながら、ストッパーが変形しないように注意して取付けて下さい。
変形したストッパーを取付けた場合、シャーシから徐々にはがれ落ち、メインボードなどに接触する恐れがあり大変危険です。
次に図中Aの部分のシャーシ穴との突き当て部分に接着剤を塗付して下さい。このとき、接着剤が鍵支点部に付着すると鍵の動きに影響を及ぼしますので注意して下さい。



Insert the stopper until it stops at the upper part of the chassis hole.
シャーシ穴上部に突き当てして下さい。

Apply adhesive. (Cemedine Super X, Cemedine 575, or Equivalent)
接着剤 (セメダインスーパーX, セメダイン575相当品)



Cross Sectional View of Area A
A部断面図

Fig.11

PARTS LIST / パーツリスト (JV-50/50E/35/35E)

SAFETY PRECAUTIONS:

The parts marked Δ have safety-related characteristics. Use only listed parts for replacement.

安全上の注意:

Δが付いている部品は、安全上特別な規格でつくられたものです。交換の際は、指定された部品番号以外の部品は使わないようにして下さい。

CONSIDERATIONS ON PARTS ORDERING

When ordering any parts listed in the parts list, please specify the following items in the order sheet.

| QTY | PART NUMBER | DESCRIPTION | MODEL NUMBER |
|--------|-------------|---------------|--------------|
| Ex. 10 | 22575241 | Sharp key | C-20/50 |
| 15 | 2247017300 | Knob (orange) | DAC-15D |

Failure to completely fill the above items with correct number and description will result in delayed or even undelivered replacement.

パーツ発注に関するお願い

オーダーシートには、必ず下記の4項目は正確に記入して下さい。(例外は除く)

| 必要数 | パーツナンバー | 品名 | 使用機種 |
|-------|------------|---------------|---------|
| 例) 10 | 22575241 | Sharp key | C-20/50 |
| 15 | 2247017300 | Knob (orange) | DAC-15D |

もし記入漏れ、誤記等有る場合、必要部品が発送できなかったり、大層な遅れの原因になります。御協力をお願いします。

| | |
|--------------------|----------------------------|
| MB → Main Board | SB → Switch Board |
| VB → Volume BoardS | PB → Sequencer Panel Board |

CASING/ケース

| | | |
|----------|------------------------|------------------|
| 00126589 | JV-50 Top Panel | (JV-50/50E only) |
| 00127434 | JV-35 Top Panel | (JV-35/35E only) |
| 00126601 | JV-50/35 Bottom Cover | |
| 00126623 | JV-50/35 Side Panel R | |
| 00126634 | JV-50 Side Panel L | (JV-50/50E only) |
| 00127445 | JV-35 Side Panel L | (JV-35/35E only) |
| 22025583 | JU-06B EXP Cover | 202-583 |
| 22043130 | S-330 Display Cover | |
| 22225373 | D S-ESCT SX1H BLK L=30 | |
| 12359139 | Rubber Foot FF-018 BLK | |
| 22360712 | Cord Hook | 236-712 |

CHASSIS/シャーシ

| | | |
|----------|-------------------------|------------------|
| 00126667 | JV-50 DD Holder L | (JV-50/50E only) |
| 00126678 | JV-50 DD Holder R | (JV-50/50E only) |
| 00234034 | JV-50/35 Display Holder | on SB |
| 22205900 | IZ06A Panel Holder | on SB |

KNOB, BUTTON/ツマミ、ボタン

| | | |
|----------|---------------------|------------------|
| 22495220 | A S-Keytop SX2H BLK | (JV-50/50E only) |
| 22495223 | A S-Keytop SD1H BLK | (JV-50/50E only) |
| 22495224 | A S-Keytop SD2H BLK | |
| 22495225 | A S-Keytop MX1H BLK | |
| 22495230 | A S-Keytop MX2H Blk | |
| 22495233 | A S-Keytop MD1H BLK | |
| 22495236 | A S-Keytop MD2H BLK | |
| 12499175 | G S-Button S1H BLK | |
| 22485295 | D S-Knob S BLK/LCG | |

SWITCH/スイッチ

| | | | |
|----------|-------------|--------------|------------|
| 13129135 | SDDWA-1307A | Power Switch | SW1 on MB |
| 13169752 | EVQ 213 05R | Tact Switch | on SB, SPB |

JACK, SOCKET/ジャック、ソケット

| | | | |
|----------|-----------------|-----------|-----------------|
| 13449284 | HLJ7001-01-3010 | stereo | JK4 on MB |
| 13449283 | HLJ7101-01-3010 | monaural | JK2, 3, 5 on MB |
| 13449720 | HEC2305-01-250 | DC Jack | JK1 on MB |
| 13429274 | YKF51-5041 | MIDI Jack | JK6 on MB |
| 13429553 | 100-032-000 | IC Socket | on MB |
| 13429552 | 100-040-000 | IC Socket | on MB |

DISPLAY UNIT/表示ユニット

| | | |
|---|-------------|----------|
| 00127378 | RCM7044U-1A | LCD Unit |
| NOTE: Replacement LCD Unit should be made on a unit basis. No replacements available for individual parts. Replacement only by a unit. | | |
| 注意: LCD Unitの交換は、ユニット単位で行って下さい。補修品は、ユニット単位。 | | |

DISK DRIVE UNIT/ディスクドライブ・ユニット

22405255 FZ-357 318F1DR 3.5inch FDD Unit (JV-50/50E only)
NOTE: Replacement FDD Unit should be made on a unit basis.
 No replacements available for individual parts.
 Replacement only by a unit.
注意: FDD Unitの交換は、ユニット単位で行って下さい。
 補修品は、ユニット単位。

BENDER UNIT/ベンダー・ユニット

23285175 PB-E0101
NOTE: Replacement BENDER Unit should be made on a unit basis.
 No replacements available for individual parts.
 Replacement only by a unit.
注意: BENDER Unitの交換は、ユニット単位で行って下さい。
 補修品は、ユニット単位。

KEYBOARD/鍵盤完成品

70125423 SK-8L61-A 61KEYS
NOTE: See "KEYBOARD PARTS LIST SK-8L61-A"(P.5) for details.
注意: 詳細は、“鍵盤パーツリスト SK-8L61-A”(P.5)を参照して下さい。

PCB ASSY/基板完成品

E 70128390 JV-50 Main Board Assy (pcb 00126945) (JV-50/50E only)
E 70122145 JV-35 Main Board Assy (pcb 00126945) (JV-35/35E only)
NOTE: Replacement Main Board Assy does not include the Lithium Battery.
 Because lithium battery dose not use for the back-up of factory presets.
 Order proper the lithium battery separately if necessary.
注意: Main Board Assy上に装着されているリチウム電池は、“工場出荷時のデータ”を保持する目的では、使用されていませんので、MAIN BOARD ASSYをオーダーしても、リチウム電池は、装着されていませんので注意して下さい。
 リチウム電池が、必要な方は、別途オーダーして下さい。
 12569249S0 Lithium Battery

70121467 JV-50 Switch Board Assy (pcb 00126990) (JV-50/50E only)
 70121390 JV-35 Switch Board Assy (pcb 00126990) (JV-35/35E only)
NOTE: JV-50/35 Switch Board Assy includes Wiring W-1 and W-2.
注意: JV-50/35 Switch Board Assy には、Wiring W-1, W-2 が含まれます。

70121478 JV-50 Sequencer Panel Board Assy (pcb 00127056) (JV-50/50E only)
NOTE: JV-50 Sequencer Panel Board includes Wiring W-4, W-5 and W-6.
注意: JV-50 Sequencer Panel Board には、Wiring W-4, W-5, W-6 が含まれます。

70121401 JV-35 Volume Board Assy (pcb 00127001) (JV-35/35E only)
NOTE: JV-35 Volume Board Assy includes Wiring W-6.
注意: JV-35 Volume Board Assy には、Wiring W-6 が含まれます。

***** JV Voice Expansion Board VE-JV1E (JV-50E/35E only)
NOTE: This board cannot be supplied as replacement.
 Use VE-JV1 (goods), if necessary.
注意: この基板は補充用部品としては供給出来ません。
 不良の場合は、VE-JV1 (商品)で処理して下さい

| | JV-50 | JV-50E | JV-35 | JV-35E |
|--|-------|--------|-------|--------|
| 70128390 JV-50 Main Board Assy | ○ | ○ | | |
| 70122145 JV-35 Main Board Assy | | | ○ | ○ |
| 70121467 JV-50 Switch Board Assy | ○ | ○ | | |
| 70121390 JV-35 Switch Board Assy | | | ○ | ○ |
| 70121478 JV-50 Sequencer Panel Board | ○ | ○ | | |
| 70121401 JV-35 Volume Board Assy | | | ○ | ○ |
| ***** JV Voice Expansion Board VE-JV1E | | ○ | | ○ |

IC

15199776 H8/510 HD6415108F10 CPU IC17 on MB
 15199741 μ PD70320GJ-5BG CPU IC35 on MB (JV-50/50E only)
 00346390 HN27C4096G-10 (JV-50/35) 4M EPROM (programmed) IC23 on MB (JV-50/50E 35/35E)
 00451578 HN62444BPD87 (JV-50/35) 4M Mask ROM
 15209487 HN27C4096G-10 4M EPROM (Blank) (4M/40pin/100nS)

00346412 HN27C101AG-12 (JV-50) 1M EPROM (programmed) IC34 on MB (JV-50/50E only)
 00451589 TC531001CP-12-H645 (JV-50) 1M Mask ROM
 15209302 HN27C101AG-12 1M EPROM (Blank) (1M/32pin/120nS)
 15279824 HN624116FBC90 LCGS-2 Mask ROM IC30 on MB
 00123123 SRM2A256SLM-70 SRAM IC24, 25 on MB
 15279510 HM65256BLF-12T PSRAM IC32 on MB
 00233912 TC51864FL-85 PSRAM IC4 on MB (JV-50/50E only)
 15199780 HD63266F FDC IC2 on MB (JV-50/50E only)
 15239229 TC6116AF (GP-4) Custom Sound Generator IC31 on MB
 15239253 μ PD65622GF-075-3B9 Gate Array IC20 on MB
 15239235 LC92011B Gate Array IC33 on MB (JV-50/50E only)
 00129278 SSC1080F0B Gate Array (Key Scan) IC27 on MB
 15289714 μ PD63200GS-E2 D/A Converter IC11, 26 on MB
 15189210 BA15218F T-2 OP AMP IC13 on MB
 15289120 NJM4565MD-TE3 OP AMP IC12, 14, 15 on MB
 15289110 μ PC4062G OP AMP IC22 on MB
 15269201HO HD74LS04FPEL Hex Inverter IC16 on MB
 15259863TO TC74HC4051AF-T2 Analog Multiplexer IC28 on MB
 15249111 TC7WU04F (TE12L) Triple Inverter IC [1], 19, 29 on MB
 00233756 TC7W02F (TE12L) Dual 2 Input NOR IC5 on MB
 15249121 TC7W04F (TE12L) Triple Inverter IC3 on MB (JV-50/50E only)
 15249116TO TC7W00F (TE12L) Dual 2 Input NAND IC21 on MB
 15199294 AN7705F V.Regulator IC6 on MB (JV-50/50E only)
 15199155 L78MR05R V.Regulator IC7 on MB (JV-35/35E only)
 15199293 L88R05D V.Regulator IC7 on MB (JV-50/50E only)
 15199286 AN78L05M- (E1) V.Regulator IC8 on MB
 00126912 AN78L09M- (E1) V.Regulator IC10 on MB
 15199273 AN79L09M- (E1) V.Regulator IC9 on MB
 15289125 PC-410T178 Photo Coupler IC18 on MB
 IC []: JV-50/50E only

TRANSISTOR/トランジスター

15129152 2SC2878-A (taping) Q6 to Q11 on MB
 15309101 2SA1037KR T-146 (chip/taping) Q4, 12, 28 on MB
 15319101 2SC2412KR T-146 (chip/taping) Q1, 5, 13, 27, 29 on MB
 15129438 2SC3074-TE16L (taping) Q2 on MB
 15329507 DTA114EK T-146 (chip/taping) on MB
 15329516 DTC114EK T-146 (chip/taping) on MB

DIODE/ダイオード

15019281 1SR35100A T-93 (taping) D1, 2, 3, 4, 6 on MB
 15019427 MTZ4.7B T-91 (taping) Zener D7 on MB
 15019446 MTZ-J13A T-91 (taping) Zener D5 on MB
 15339105 DAN202K T-146 (chip/taping) D14 on MB
 15339112 DA119 T-146 (chip/taping) D12, 13 on MB
 15339108 DA204K T-146 (chip/taping) D8 to 11 on MB
 15019126 1SS-133-T77 (taping) on SB, SPB
 15039217 SLR-331VCF01 (taping) LED (Red) on SB, SPB
 00233967 SLR-331MCF01 (taping) LED (Green) on SPB (JV-50/50E only)

RESISTOR ARRAY/抵抗アレイ

00342990 EXB-A10E223J (chip/taping) Resistor Array RA10, 13, 14, 16, 17, [20], [23], [24] on MB
 15399907 MNR34J5A153E (chip/taping) Resistor Array RA19 on MB
 15399917 MNR34J5A103E (chip/taping) Resistor Array RA5 on MB
 15399932 MNR34J5A101 (chip/taping) Resistor Array RA4, 6, 7, 8, 9, 11, 12, 15, 18, [21], [22] on MB
 15399936 MNR34J5A102 (chip/taping) Resistor Array RA1, 2 on MB
 15399991 MNR34J5A223 (chip/taping) Resistor Array RA3 on MB
 RA []: JV-50/50E only

POTENTIOMETER/ボリューム

13339467 EWA-NFEX10B14 10KB (monaural) on SB, SPB, VB
 13359355 EWA-NAOX10B14 10KB (stereo) on SPB, VB

INDUCTOR, COIL, FILTER/インダクタ、コイル、フィルター

00346201 L9R-331 Choke Coil L1 on MB
 12449357 PLT1R53C Line Filter FL24 on MB
 12449358 FL5R200N PNT Coil on MB
 12449396 BLM32A07PT Ferrite Bead on MB
 00235356 ACF321825-151-T EMI Filter on MB
 00235367 ACF321825-220-T EMI Filter on MB
 00345612 ACF321825-101-T EMI Filter on MB
 13529277 ACF321825-223-T EMI Filter on MB
 13529279 ACF321825-221-T EMI Filter on MB (JV-50/50E only)
 13529280 ACF321825-331-T EMI Filter on MB

CRYSTAL, RESONATOR/クリスタル、発振子

| | | | | |
|----------|--------|----------|----------|------------------|
| 15299156 | MA-506 | 16.00MHz | X1 on MB | (JV-50/50E only) |
| 15299132 | MA-506 | 20.00MHz | X2 on MB | |
| 15299180 | MA-506 | 24.00MHz | X3 on MB | |

CONNECTOR/コネクタ

| | | | | | |
|----------|-------------------|-------|----------------|------------------------|------------------|
| 13379151 | IL-FPC-14ST-N | (14P) | Card Connector | CN6 on MB | |
| 13379157 | IL-FPC-16SL-N | (16P) | Card Connector | CN9, 10 on MB | |
| 13439332 | IL-S-5P-S2T2-EF | (5P) | Header | CN4 on MB | |
| 13369877 | PS-34PE-D4T1-B1-K | (34P) | Header | CN1 on MB | (JV-50/50E only) |
| 13429914 | 52411-0202 | (20P) | Header | CN11 on MB | |
| 13369925 | 53253-0310 | (3P) | Header | CN2 on MB | (JV-50/50E only) |
| 13369603 | 52147-0810 | (8P) | Wire Trap | CN8, [13] on MB | |
| 13369604 | 52147-0910 | (9P) | Wire Trap | CN3, [12] on MB | |
| 13369607 | 52147-1210 | (12P) | Wire Trap | CN5, 7 on MB | |
| 13429297 | 51048-0800 | (8P) | Cable Holder | CN201 on SB | |
| | | | | CN402 on SPB | (JV-50/50E only) |
| 13429298 | 51048-0900 | (9P) | Cable Holder | CN301 on VB | (JV-35/35E only) |
| | | | | CN401, 403 on SPB | (JV-50/50E only) |
| 13429301 | 51048-1200 | (12P) | Cable Holder | CN202, 203 on SB | |
| | | | | CN []: JV-50/50E only | |

WIRING, CABLE/ワイヤリング、ケーブル

| | | | | |
|----------|-------------------------|-------|------------------|------------------|
| 00234178 | JV-50/35 Wiring W-1 | (8P) | CN201-CN8 | |
| 00234156 | JV-50/35 Wiring W-2 | (12P) | CN202-CN7 | |
| | | | CN203-CN5 | |
| 00234189 | JV-50/35 Wiring W-4 | (9P) | CN401-CN12 | |
| 00233945 | JV-50/35 Wiring W-5 | (8P) | CN402-CN13 | |
| 00233956 | JV-50/35 Wiring W-6 | (9P) | CN403-CN3 | (JV-50/50E only) |
| | | | CN301-CN3 | (JV-35/35E only) |
| 00234101 | JV-50/35 Wiring W-7 | (5P) | Bender-CN4 | |
| 00234112 | JV-50 Wiring W-8 | (34P) | FDD-CN1 | (JV-50/50E only) |
| 00234123 | JV-50 Wiring W-9 | (3P) | FDD Power-CN2 | (JV-50/50E only) |
| 00234134 | 16 x 250-A6.0BB-HBL10 | (16P) | Keyboard-CN9, 10 | |
| 23475965 | 14 x 70-A5.0BB-P1.25-H8 | (14P) | LCD-CN6 | |

BATTERY/電池

| | | | |
|------------|--------|---------------------|-----------|
| 12569249S0 | CR2032 | Lithium Battery +3V | BT1 on MB |
|------------|--------|---------------------|-----------|

SCREW/ネジ類

| | |
|-------|----------------------------|
| ***** | 3 x 6mm B.Tight Binding Cm |
| ***** | 3 x 8mm B.Tight Binding Cm |
| ***** | 3 x 8mm B.Tight Binding BC |
| ***** | 4 x 8mm B.Tight Binding BC |
| ***** | 3 x 8mm P.Tight Pan Cm |
| ***** | 3 x 8mm P.Tight Pan BC |
| ***** | 3 x 10mm W Sems Cm |

PACKING CASE/梱包ケース

| | | |
|----------|--------------------|------------------|
| 00126712 | JV-50/35 Pad L | |
| 00126723 | JV-50/35 Pad R | |
| 00126701 | JV-50 Packing Case | (JV-50/50E only) |
| 00127412 | JV-35 Packing Case | (JV-35/35E only) |

MISCELLANEOUS/その他

| | | |
|----------|-------------------------------------|------------------|
| 22245807 | JV-30 Pot Dust Cover 2H | |
| 22245808 | JV-30 Pot Dust Cover 3H | |
| 40126801 | 1245 W5.0MM 16.4M 20P | Electrical Tape |
| 22165134 | Collar | (JV-50/50E only) |
| 22265242 | D-20 DD Insulater | (JV-50/50E only) |
| 00126690 | JV-50/35 Shield Cover | |
| 23455325 | KR-650 EMI Leaf 345-325 | |
| 12189810 | PCB Spacer WLS-14-094V0 | |
| 12569420 | Lithium Battery Holder (for CR2032) | |
| 00126689 | JV-50/35 Heatsink | |
| 12199584 | M1698 Ground Terminal | |

ACCESSORIES/標準付属品

| | | | |
|------------|------------------------------|--------------------|------------------|
| 23430675S0 | LP Connector Cord LP-25 2.5M | | |
| 70121356 | JV-50/35 Manual set DOM | (Japanese) | |
| 70128190 | JV-50/35 Manual set EXP | (English) | |
| △12449630 | ACK-100 | AC Adaptor (100V) | (JV-50/50E only) |
| △12449603 | ACI-100J | AC Adaptor (100V) | (JV-35/35E only) |
| △12449631 | ACK-120 | AC Adaptor (117V) | (JV-50/50E only) |
| △12449604 | ACI-120J | AC Adaptor (117V) | (JV-35/35E only) |
| △12449548 | ACB-220 | AC Adaptor (220V) | (JV-50/50E only) |
| △12449605 | ACI-220J | AC Adaptor (220V) | (JV-35/35E only) |
| △12449564 | ACB-240E | AC Adaptor (240VE) | |
| △12449549 | ACB-240 | AC Adaptor (240VA) | |
| 00234145 | Attached Disk 3.5 DD | | (JV-50/50E only) |

INSTALLING THE EXPANSION BOARD

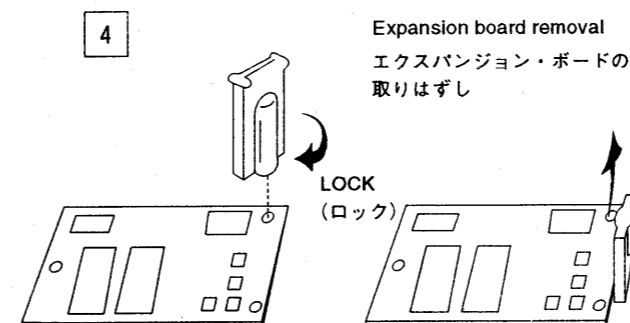
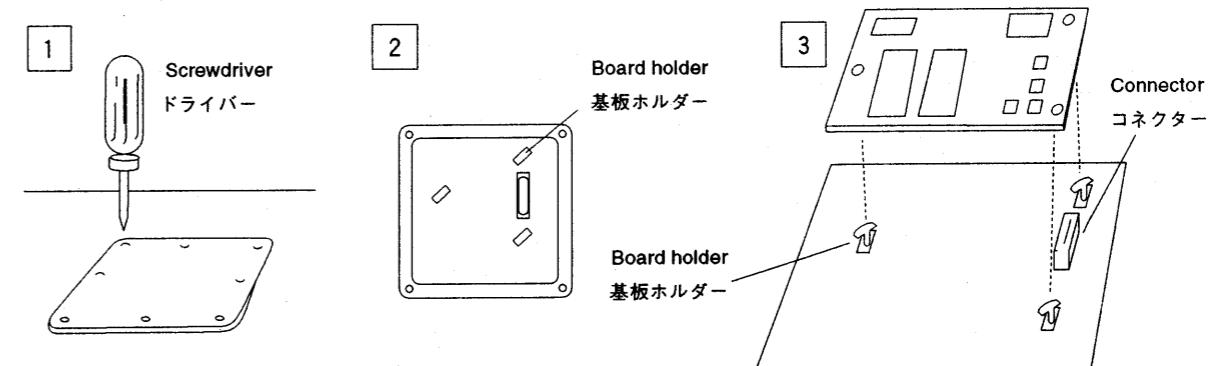
* Turn off the instrument.

1. Remove the cover on the bottom of the instrument.
2. Set the board holder as shown in Fig.2.
3. Insert the expansion board connector into the main unit connector. Three board holders must protrude through the expansion board at this time.
4. Turn the board holder 90 degrees clockwise (1/4 turn) with the enclosed fixing tool, and fix the expansion board.
5. Finally, replace the cover.

エクспанション・ボードの取り付け方

※ VE-JV1 を接続する前に、使用する機器の電源スイッチをオフにしてください。

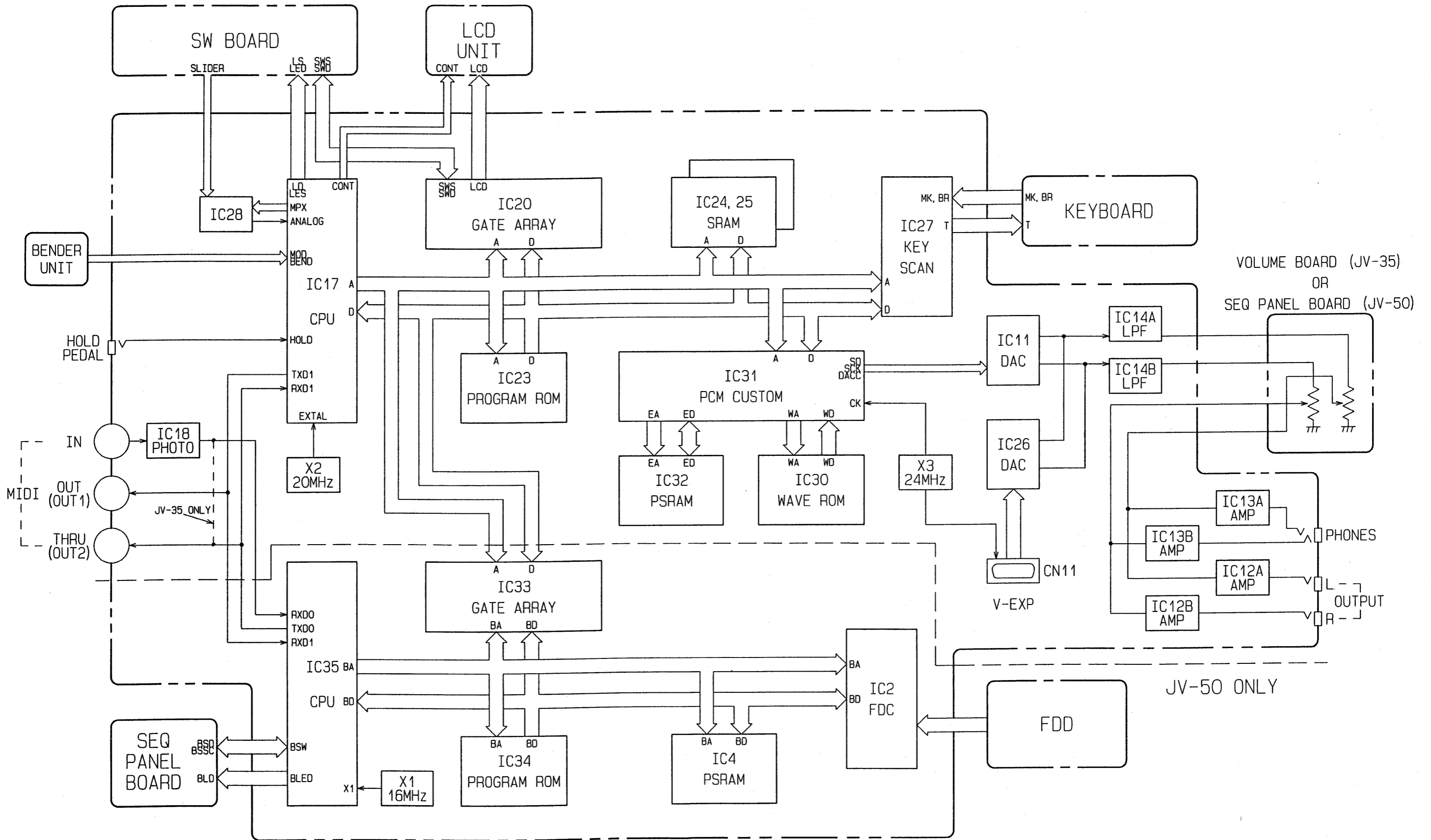
1. 使用機器に底部にあるカバーをはずします。
2. 基板ホルダーを、図2のような向きに合わせます。
3. ボイス・エクспанション・ボードのコネクターを、本体のコネクターに完全に差し込みます。このとき3つの基板ホルダーが、ボイス・エクспанション・ボードから出るようにします。
4. 付属の固定用具で基板ホルダーを時計回りに1/4回転ほど回し、エクспанション・ボードを固定します。
5. 最後にカバーを取りつけます。



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

BLOCK DIAGRAM / ブロック図

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V



JV-50 ONLY

TEST MODE / テストモード

Synthesizer section/ シンセサイザー部 (JV-50/35)

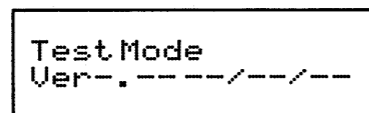
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-----------------------------------|---------------------------------|-------------------------|--------------------------------|-------------|--------------------------------|---------------|--------------------------------|---------------|--------------------------------|---------------|--------------------------------|---------------|--------------------------------|-------------------------|--------------------------------|--------------|--------------------------------|------------------------------|--------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|-----------------|---------------------------------|----------------|---------------------------------|----------------|---------------------------------|----------------|---------------------------------|
| To enter the Test Mode テストモードの入り方 | (1) Press the [LEVEL] button and [PAN] button simultaneously, to set in ROM play. [LEVEL] ボタンと [PAN] ボタンを同時に押して ROM プレイに入ります。 (2) While pressing the [VARIATION] button, press the [VIBRATO] button. 次に、[VARIATION] ボタンを押しながら、[VIBRATO] ボタンを押します。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| To select a Test directly テストの選択方法 (ダイレクト) | While holding down the [PERFORMANCE] button, press the [TONE GROUP] button. [PERFORMANCE] ボタンを押しながら、各々の [TONE GROUP] ボタンを押します。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| To select a Test in sequence テストの選択方法 (順送り) | When you press the [PART>] ([PART<]) button while holding down the [PERFORMANCE] button, you move to the next (previous) Test Item. 次 (前) のテスト項目に移るときには、[PERFORMANCE] ボタンを押しながら [PART>] ([PART<]) ボタンを押します。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Item テスト項目 | <table border="0"> <tr><td>1. Verification of Version Number</td><td>[(PERFORMANCE)+[TONE GROUP 15]]</td></tr> <tr><td>2. Voice Expansion Test</td><td>[(PERFORMANCE)+[TONE GROUP 1]]</td></tr> <tr><td>3. DAC Test</td><td>[(PERFORMANCE)+[TONE GROUP 2]]</td></tr> <tr><td>4. Voice Test</td><td>[(PERFORMANCE)+[TONE GROUP 3]]</td></tr> <tr><td>5. LED Test 1</td><td>[(PERFORMANCE)+[TONE GROUP 4]]</td></tr> <tr><td>6. LED Test 2</td><td>[(PERFORMANCE)+[TONE GROUP 5]]</td></tr> <tr><td>7. LCD Test 3</td><td>[(PERFORMANCE)+[TONE GROUP 6]]</td></tr> <tr><td>8. Battery/RAM/ROM Test</td><td>[(PERFORMANCE)+[TONE GROUP 7]]</td></tr> <tr><td>9. MIDI Test</td><td>[(PERFORMANCE)+[TONE GROUP 8]]</td></tr> <tr><td>10. Switch & Hold Pedal Test</td><td>[(PERFORMANCE)+[TONE GROUP 9]]</td></tr> <tr><td>11. Keyboard Test 1</td><td>[(PERFORMANCE)+[TONE GROUP 10]]</td></tr> <tr><td>12. Keyboard Test 2</td><td>[(PERFORMANCE)+[TONE GROUP 11]]</td></tr> <tr><td>13. Effect Test</td><td>[(PERFORMANCE)+[TONE GROUP 12]]</td></tr> <tr><td>14. A/D Test 1</td><td>[(PERFORMANCE)+[TONE GROUP 13]]</td></tr> <tr><td>15. A/D Test 2</td><td>[(PERFORMANCE)+[TONE GROUP 14]]</td></tr> <tr><td>16. Initialize</td><td>[(PERFORMANCE)+[TONE GROUP 16]]</td></tr> </table> | 1. Verification of Version Number | [(PERFORMANCE)+[TONE GROUP 15]] | 2. Voice Expansion Test | [(PERFORMANCE)+[TONE GROUP 1]] | 3. DAC Test | [(PERFORMANCE)+[TONE GROUP 2]] | 4. Voice Test | [(PERFORMANCE)+[TONE GROUP 3]] | 5. LED Test 1 | [(PERFORMANCE)+[TONE GROUP 4]] | 6. LED Test 2 | [(PERFORMANCE)+[TONE GROUP 5]] | 7. LCD Test 3 | [(PERFORMANCE)+[TONE GROUP 6]] | 8. Battery/RAM/ROM Test | [(PERFORMANCE)+[TONE GROUP 7]] | 9. MIDI Test | [(PERFORMANCE)+[TONE GROUP 8]] | 10. Switch & Hold Pedal Test | [(PERFORMANCE)+[TONE GROUP 9]] | 11. Keyboard Test 1 | [(PERFORMANCE)+[TONE GROUP 10]] | 12. Keyboard Test 2 | [(PERFORMANCE)+[TONE GROUP 11]] | 13. Effect Test | [(PERFORMANCE)+[TONE GROUP 12]] | 14. A/D Test 1 | [(PERFORMANCE)+[TONE GROUP 13]] | 15. A/D Test 2 | [(PERFORMANCE)+[TONE GROUP 14]] | 16. Initialize | [(PERFORMANCE)+[TONE GROUP 16]] |
| 1. Verification of Version Number | [(PERFORMANCE)+[TONE GROUP 15]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Voice Expansion Test | [(PERFORMANCE)+[TONE GROUP 1]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. DAC Test | [(PERFORMANCE)+[TONE GROUP 2]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Voice Test | [(PERFORMANCE)+[TONE GROUP 3]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. LED Test 1 | [(PERFORMANCE)+[TONE GROUP 4]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. LED Test 2 | [(PERFORMANCE)+[TONE GROUP 5]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. LCD Test 3 | [(PERFORMANCE)+[TONE GROUP 6]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. Battery/RAM/ROM Test | [(PERFORMANCE)+[TONE GROUP 7]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. MIDI Test | [(PERFORMANCE)+[TONE GROUP 8]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. Switch & Hold Pedal Test | [(PERFORMANCE)+[TONE GROUP 9]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. Keyboard Test 1 | [(PERFORMANCE)+[TONE GROUP 10]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. Keyboard Test 2 | [(PERFORMANCE)+[TONE GROUP 11]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. Effect Test | [(PERFORMANCE)+[TONE GROUP 12]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. A/D Test 1 | [(PERFORMANCE)+[TONE GROUP 13]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15. A/D Test 2 | [(PERFORMANCE)+[TONE GROUP 14]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. Initialize | [(PERFORMANCE)+[TONE GROUP 16]] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| To exit the Test Item 各テスト項目の抜け方 | You cannot exit the Test Item unless the display shows "*" or "OK" after having performed each Test Item. 原則として、それぞれのテストは実施後 "*" 又は "OK" が出ないと抜けられません。 You can exit the test item by pressing the [WRITE] button while holding down the [PART>] button. [PART>] ボタンを押しながら [WRITE] ボタンを押すと強制的に抜けることができます。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| To exit the Test Mode テストモードの抜け方 | (1) Select "Initialize". "Initialize" の項目を選びます。 (2) Press the [WRITE] button. [WRITE] ボタンを押します。 (3) The operation simultaneously exits the Test Mode and automatically loads "Factory Data". テストモードを抜けると同時に工場出荷時のデータが自動的にロードされます。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1. Verification of the Version Number

1. バージョン確認

When you enter Test Mode, the following will appear on the display.

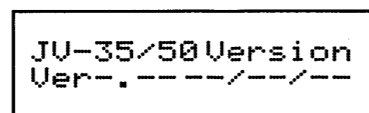
テストモードに入ると最初にこの画面が表示されます。



↑
Version Number

You can also verify by pressing the [TONE GROUP 15] button while holding down the [PERFORMANCE] button in the Test Mode. The following is then displayed.

また、テストモードで [PERFORMANCE] ボタンを押しながら [TONE GROUP 15] ボタンを押した場合も確認することができます。その場合は以下のように表示されます。



↑
Version Number

2. Voice Expansion Test

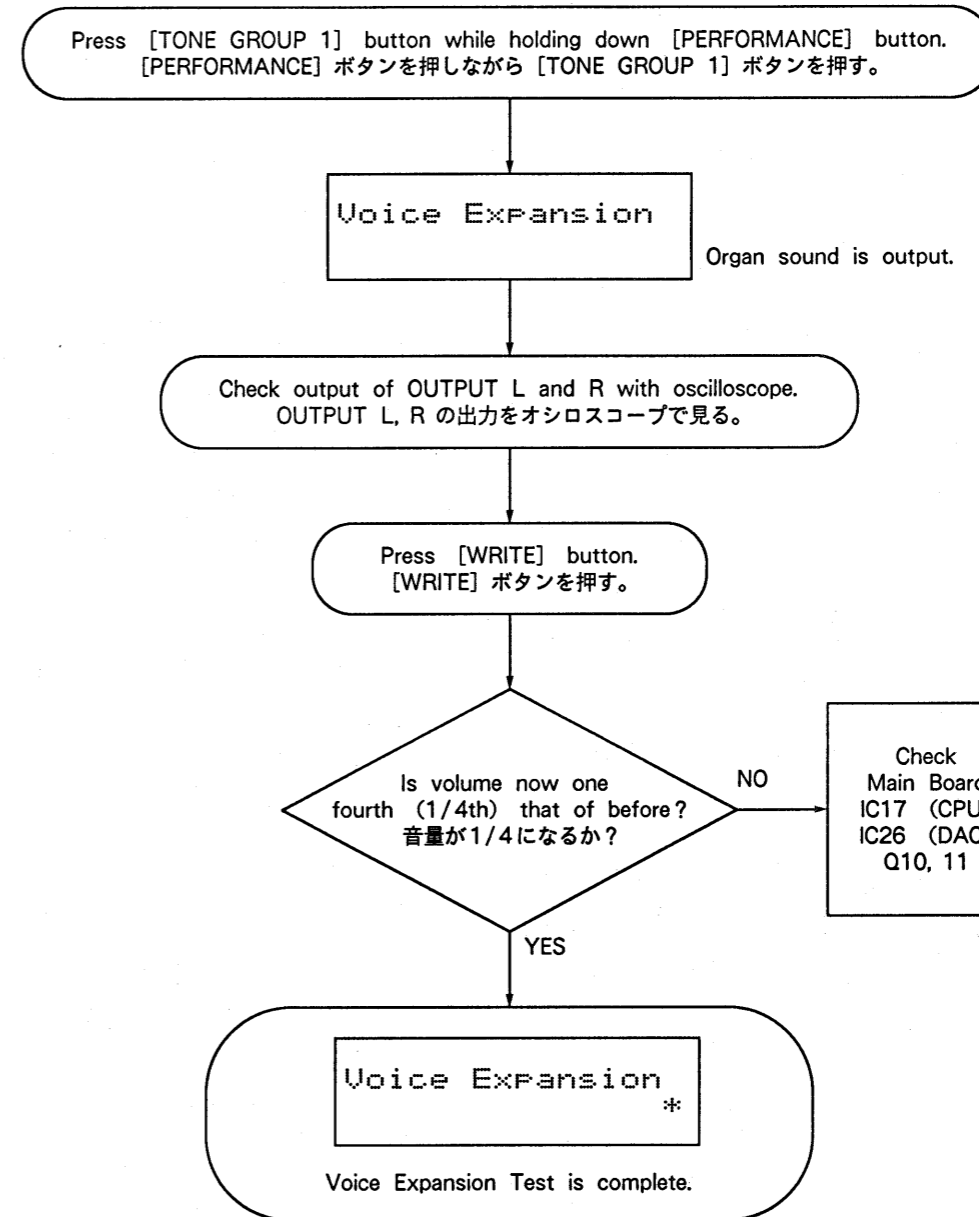
2. ボイス・エクспанション・テスト

NOTE

You need to install the Voice Expansion Board (VE-GS1) before turning the power on, when you carry out this Test.

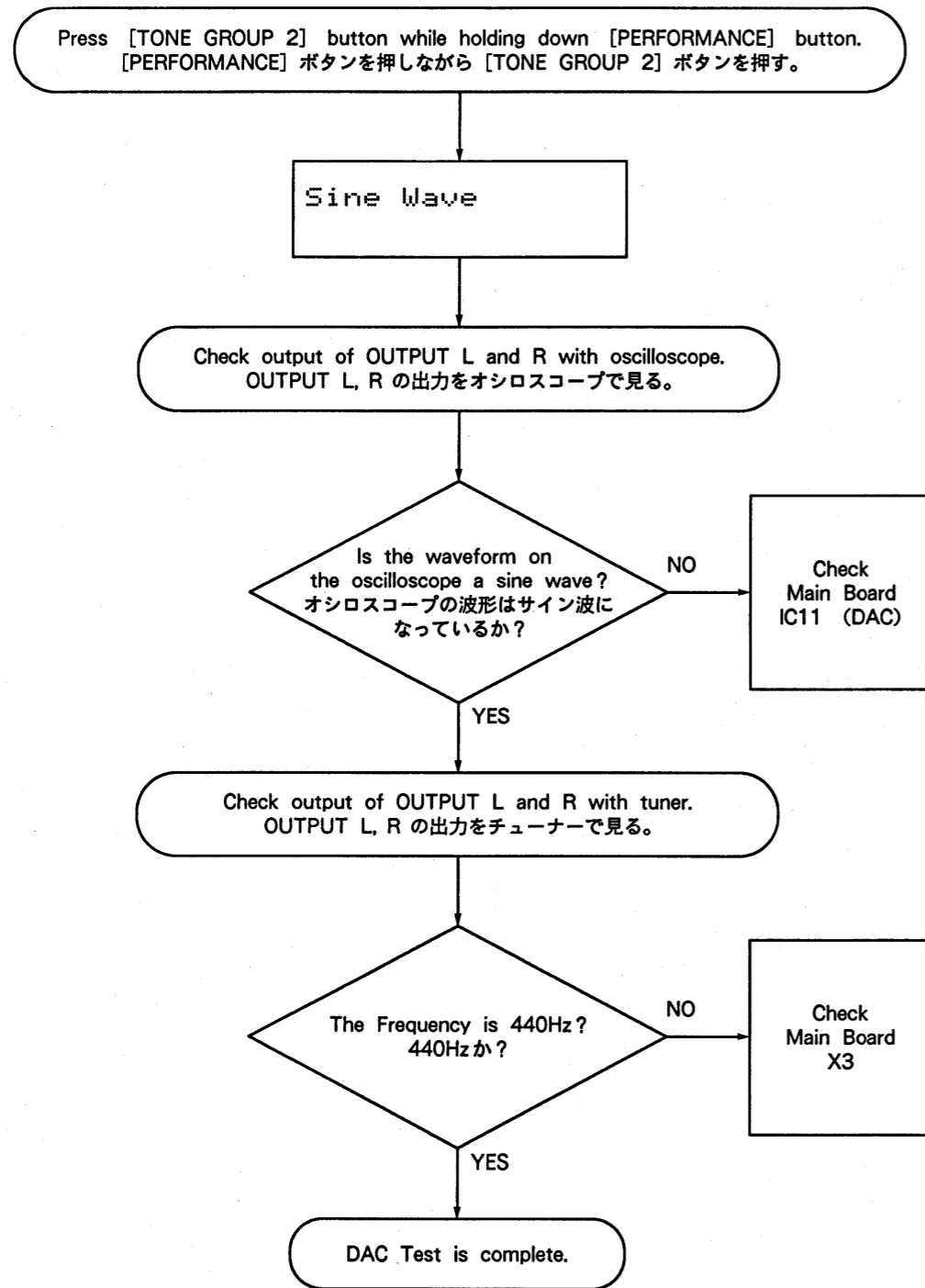
注意

このテストを実施するときには、電源を入れる前にボイス・エクспанション・ボード (VE-GS1) を挿しておく必要があります。



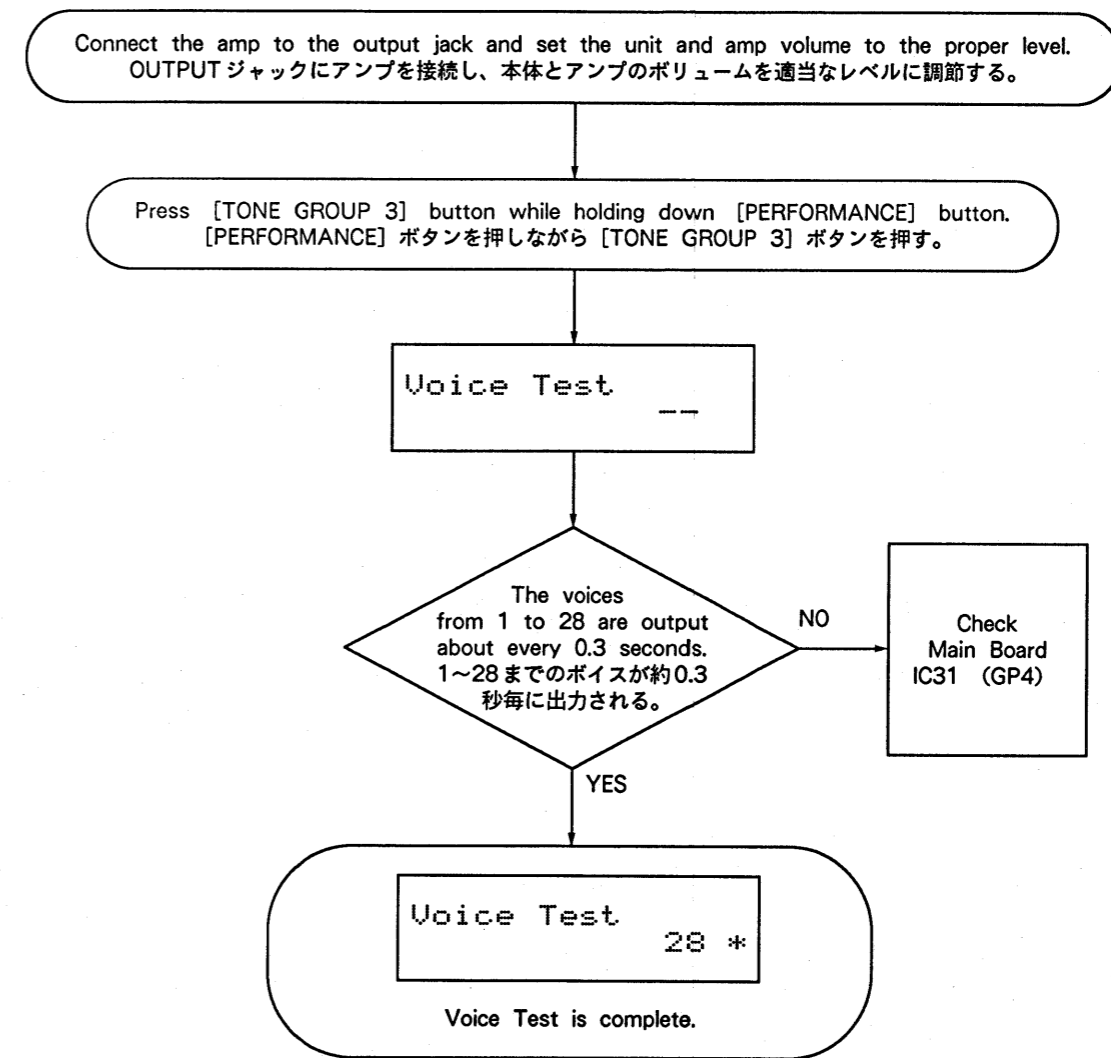
3. DAC Test

3. DACテスト



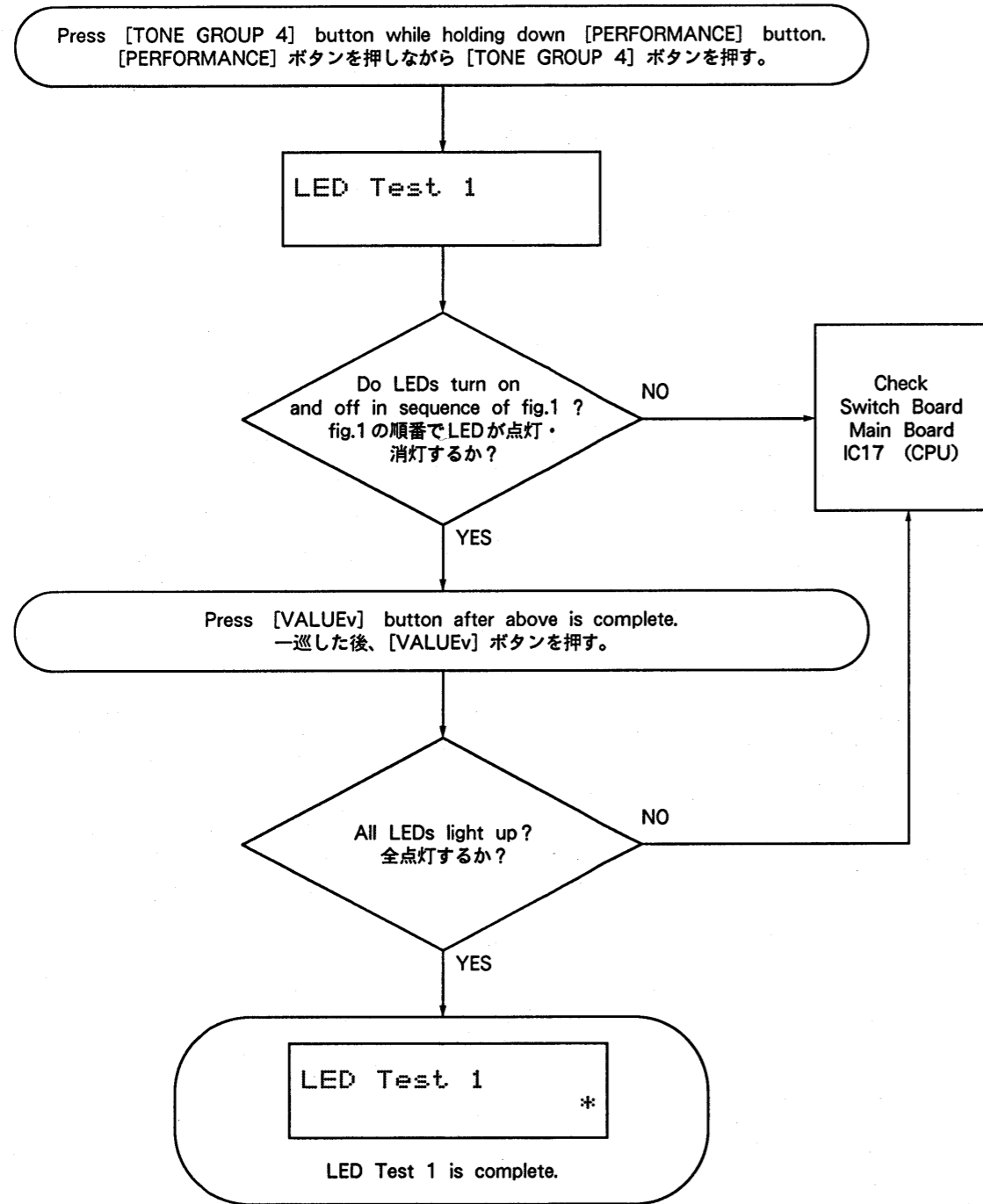
4. Voice Test

4. ボイス・テスト



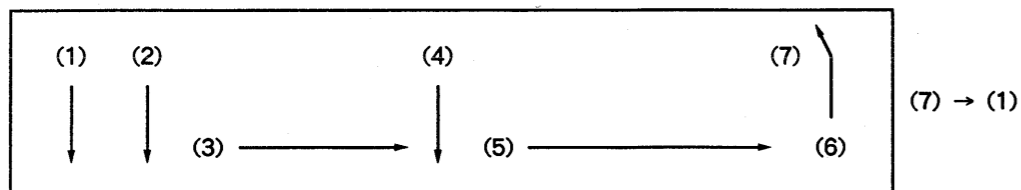
5. LED Test 1

5. LEDテスト 1



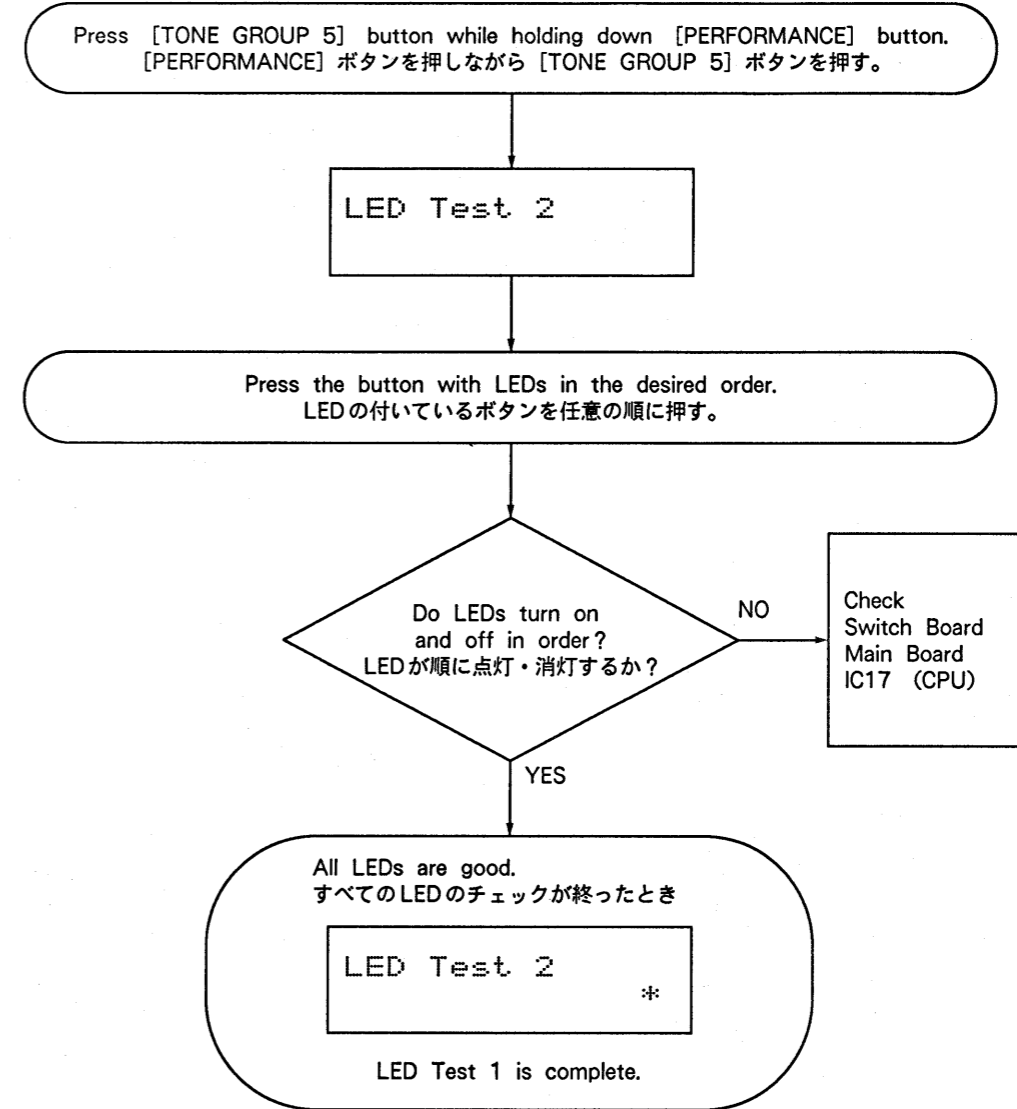
- * The on/off rate of the LEDs increases as the Value slider is moved down.
- * LEDの点灯速度は、Valueスライダを下げるほど速くなる。

fig.1



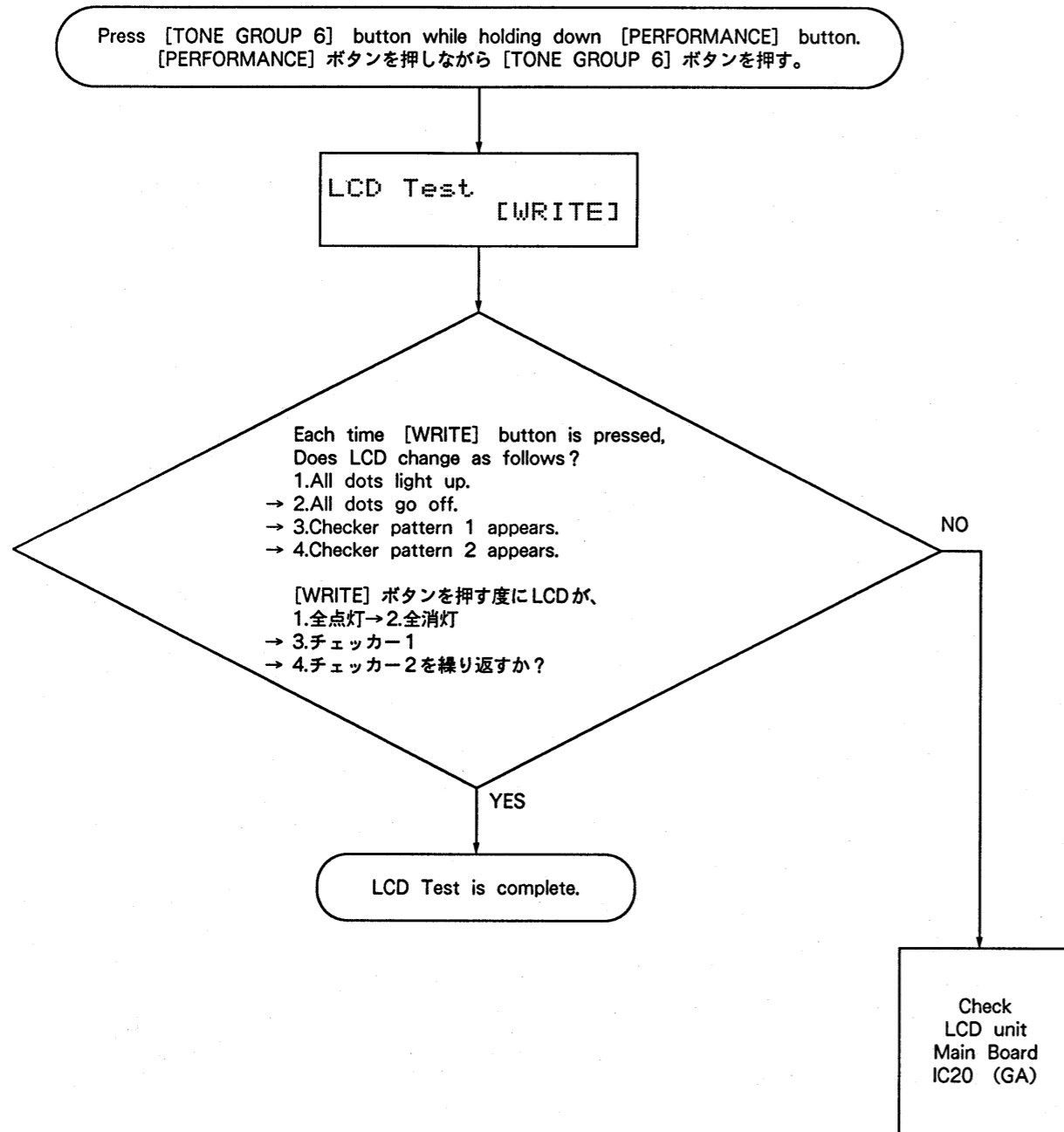
6. LED Test 2

6. LEDテスト 2



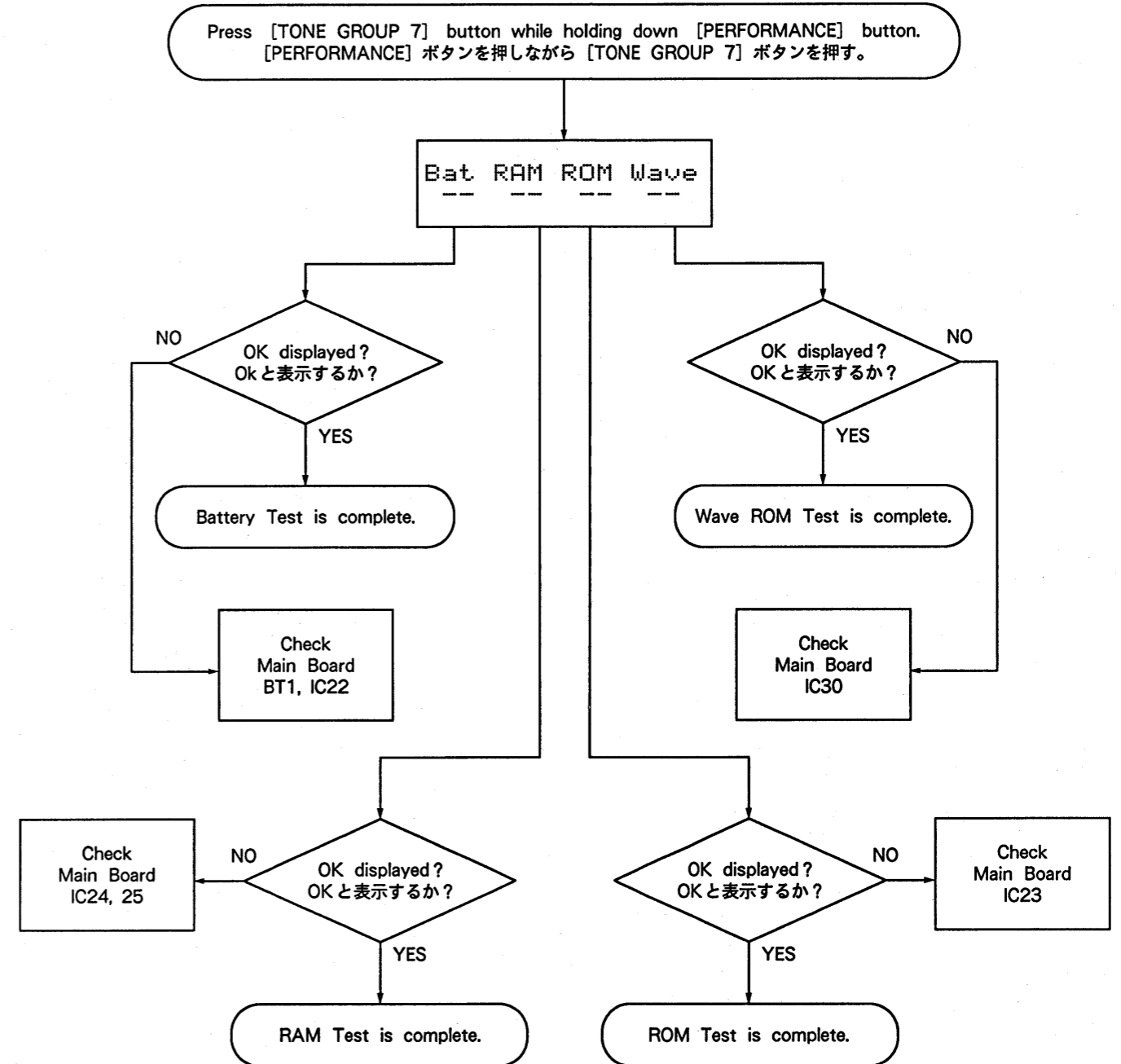
7. LCD Test

7. LCDテスト



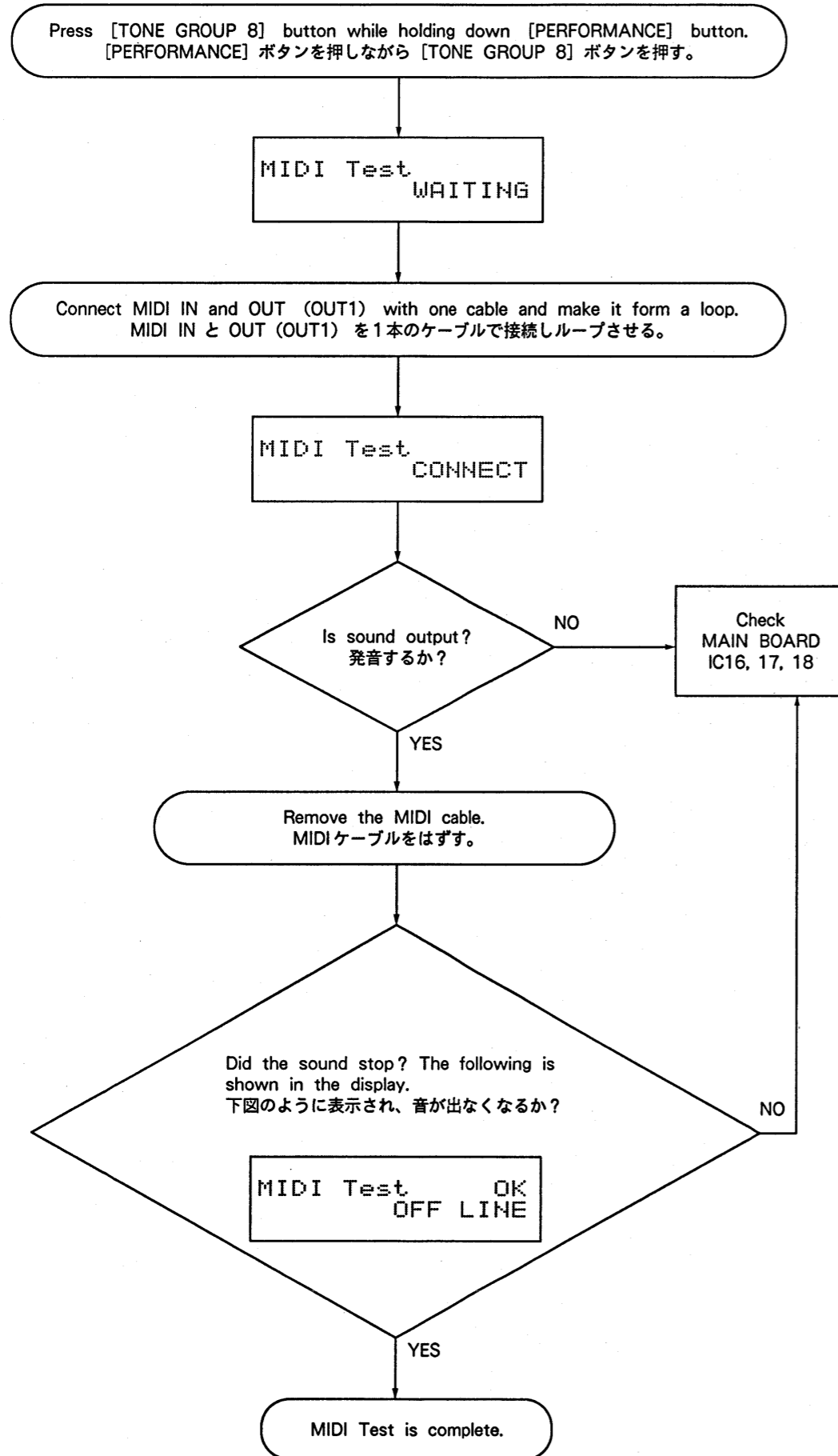
8. Battery/RAM/ROM Test

8. バッテリー, RAM, ROMテスト



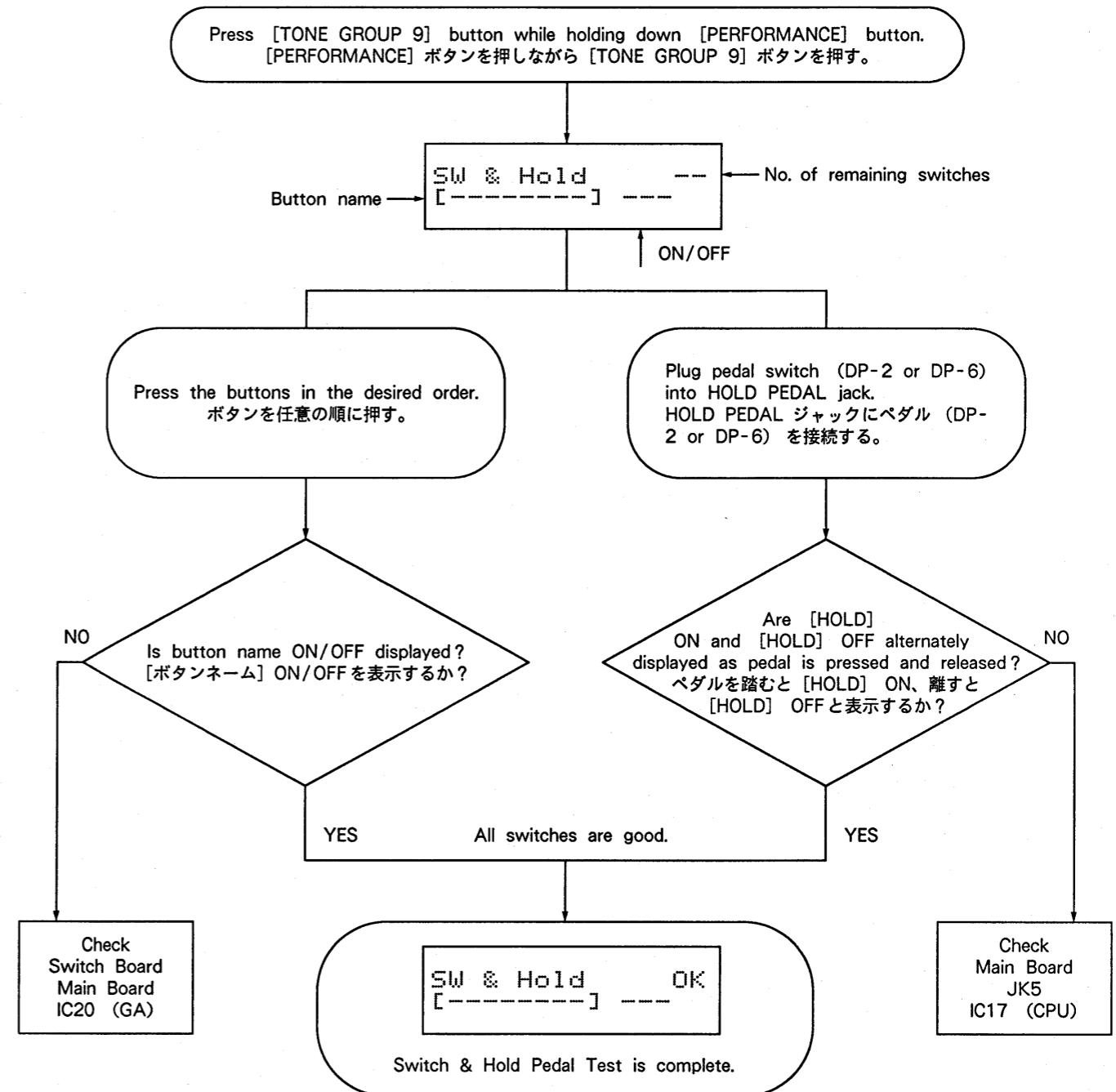
9. MIDI Test

9. MIDIテスト



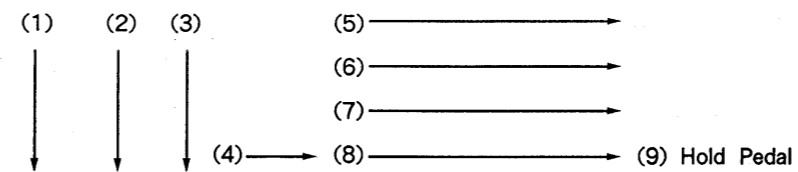
10. Switch & Hold Pedal Test

10.スイッチ&ホールドペダルテスト



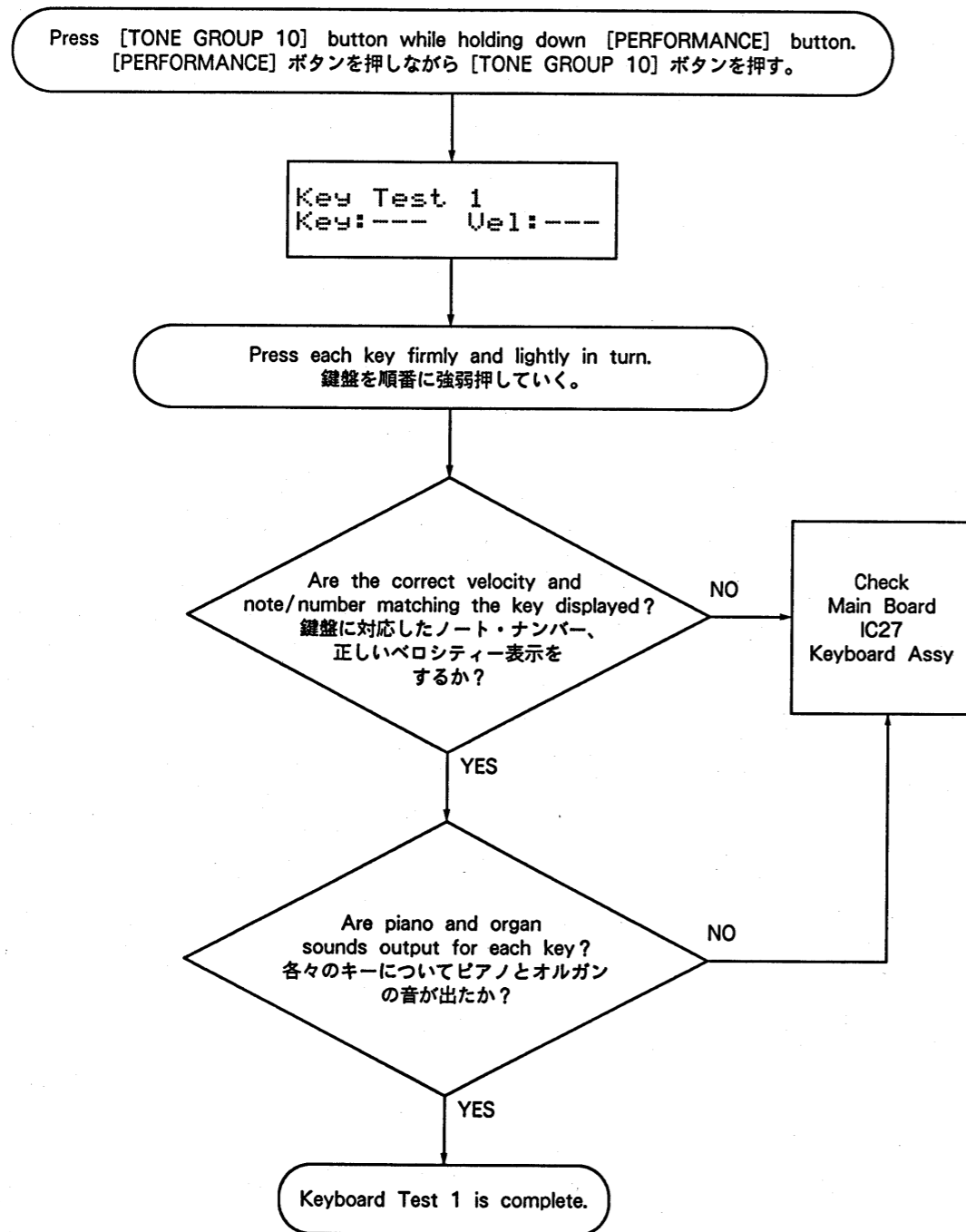
- * When the amp is connected to the OUTPUT jack, a sound when a button is pressed. Scale sounds in sequence when the panel switches are pressed in order.
- * OUTPUT ジャックにアンプを接続しておけば、ボタンを押したときに音が出ます。パネル上のスイッチを順番に押すと、音階順に発音します。

Scale sequence / 音階順序



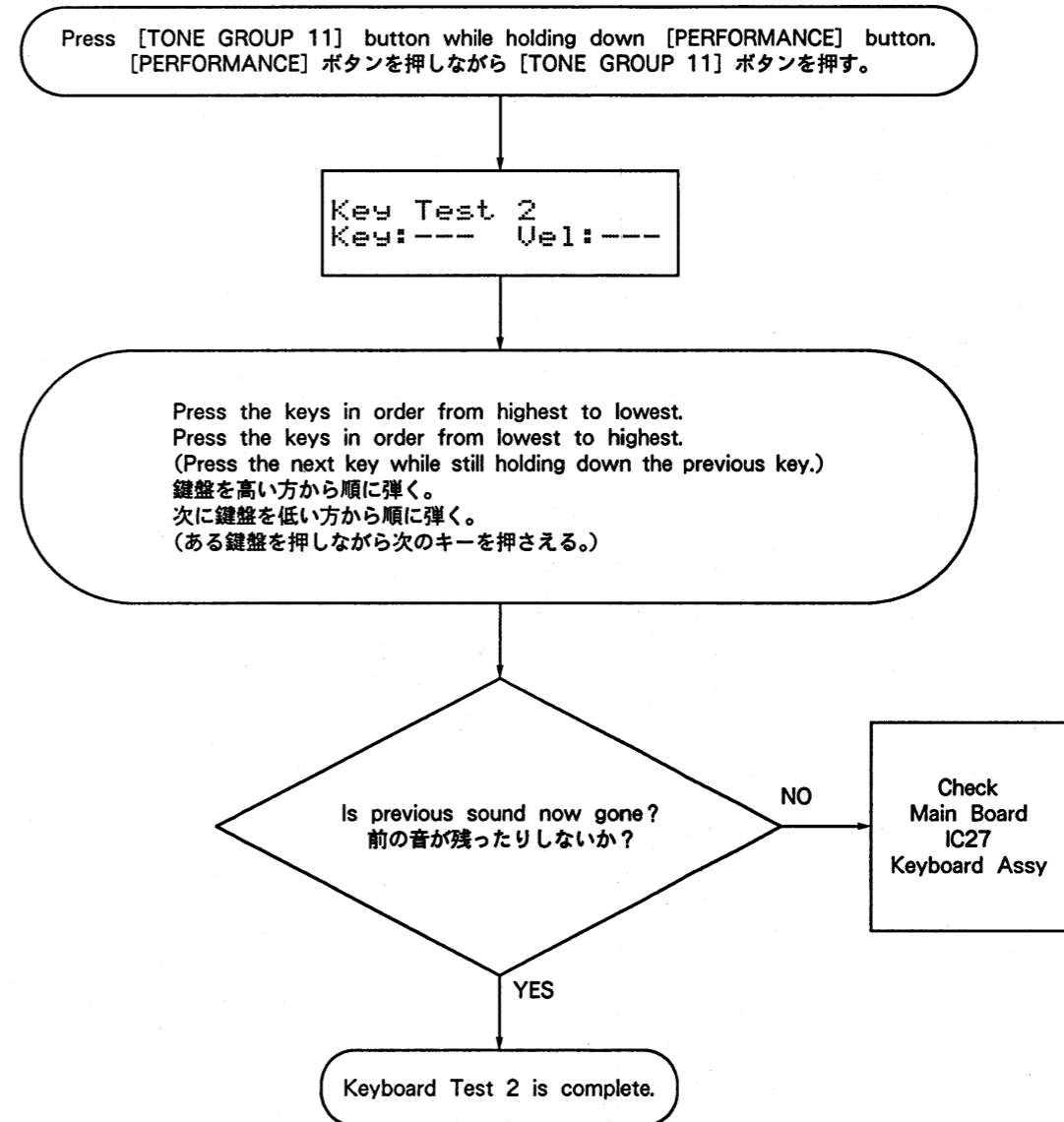
11. Keyboard Test 1

11.キーボードテスト 1



12. Keyboard Test 2

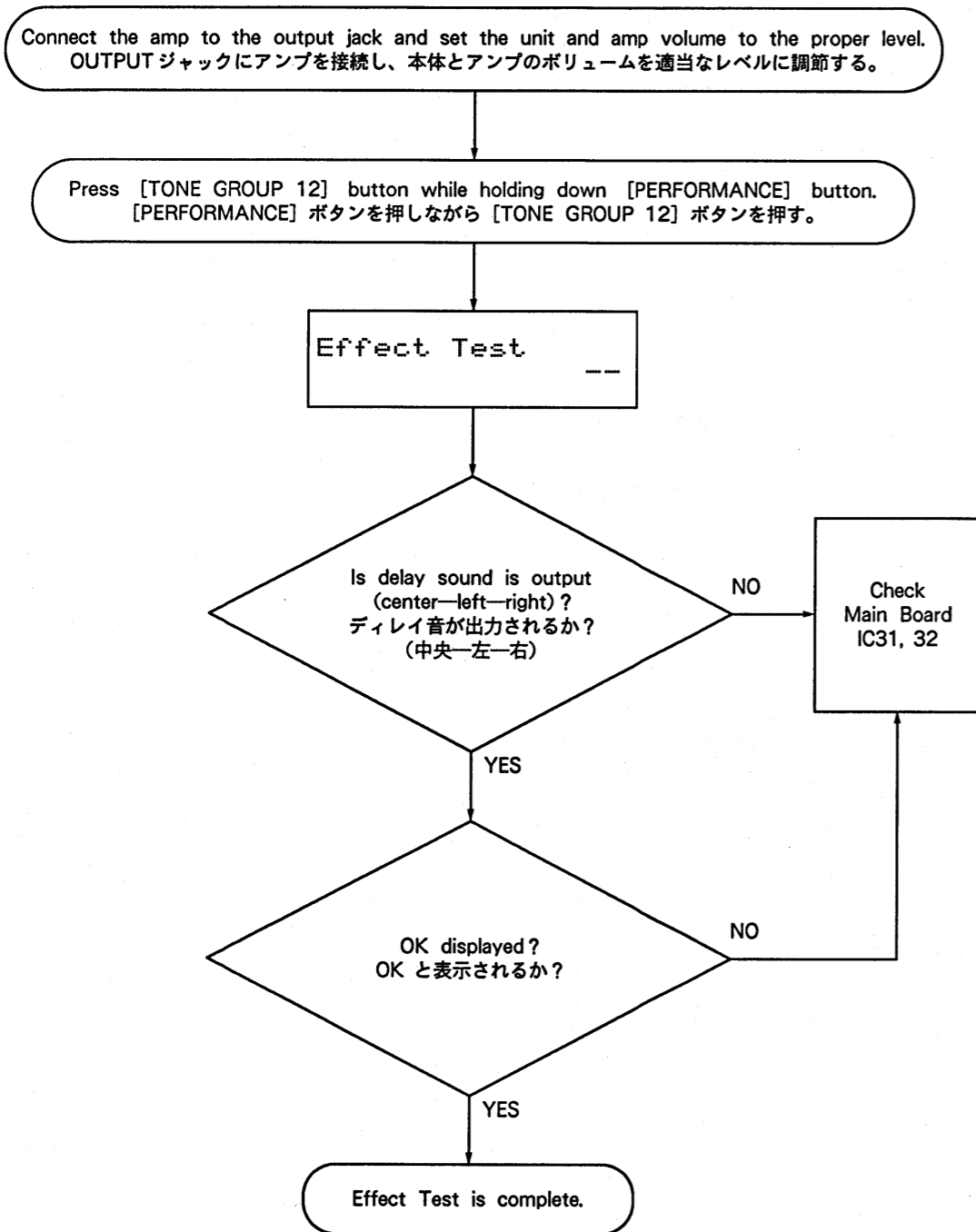
12.キーボードテスト 2



- * When the amp is connected to the OUTPUT jack, sound is output as follows :
 velocity 1—119 : Piano sound
 velocity 120—127 : Organ sound
- * OUTPUT ジャックにアンプを接続しておけば、以下のように音が出る。
 ベロシティ 1—119 : ピアノ音
 ベロシティ 120—127 : オルガン音

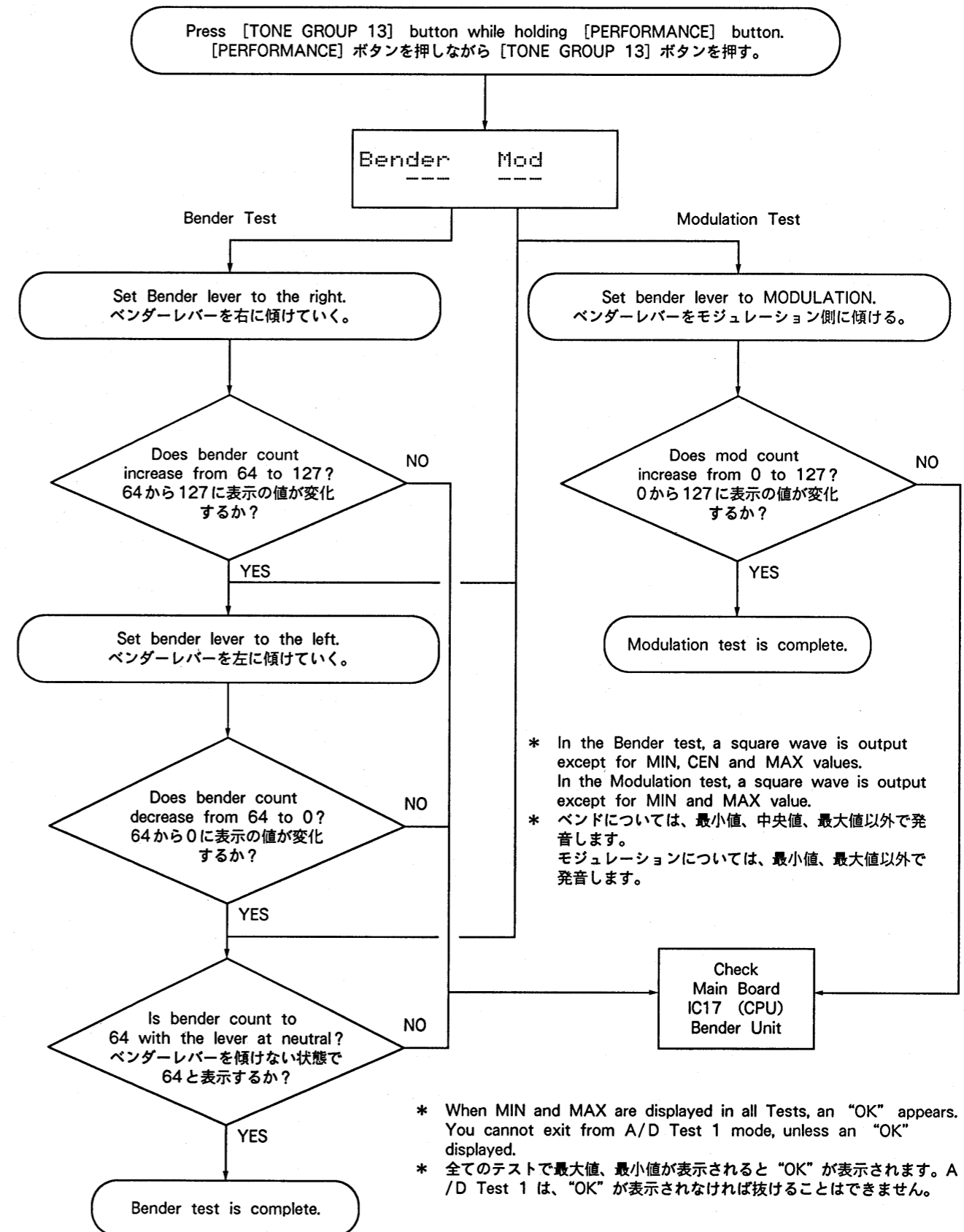
13. Effect Test

13.エフェクトテスト



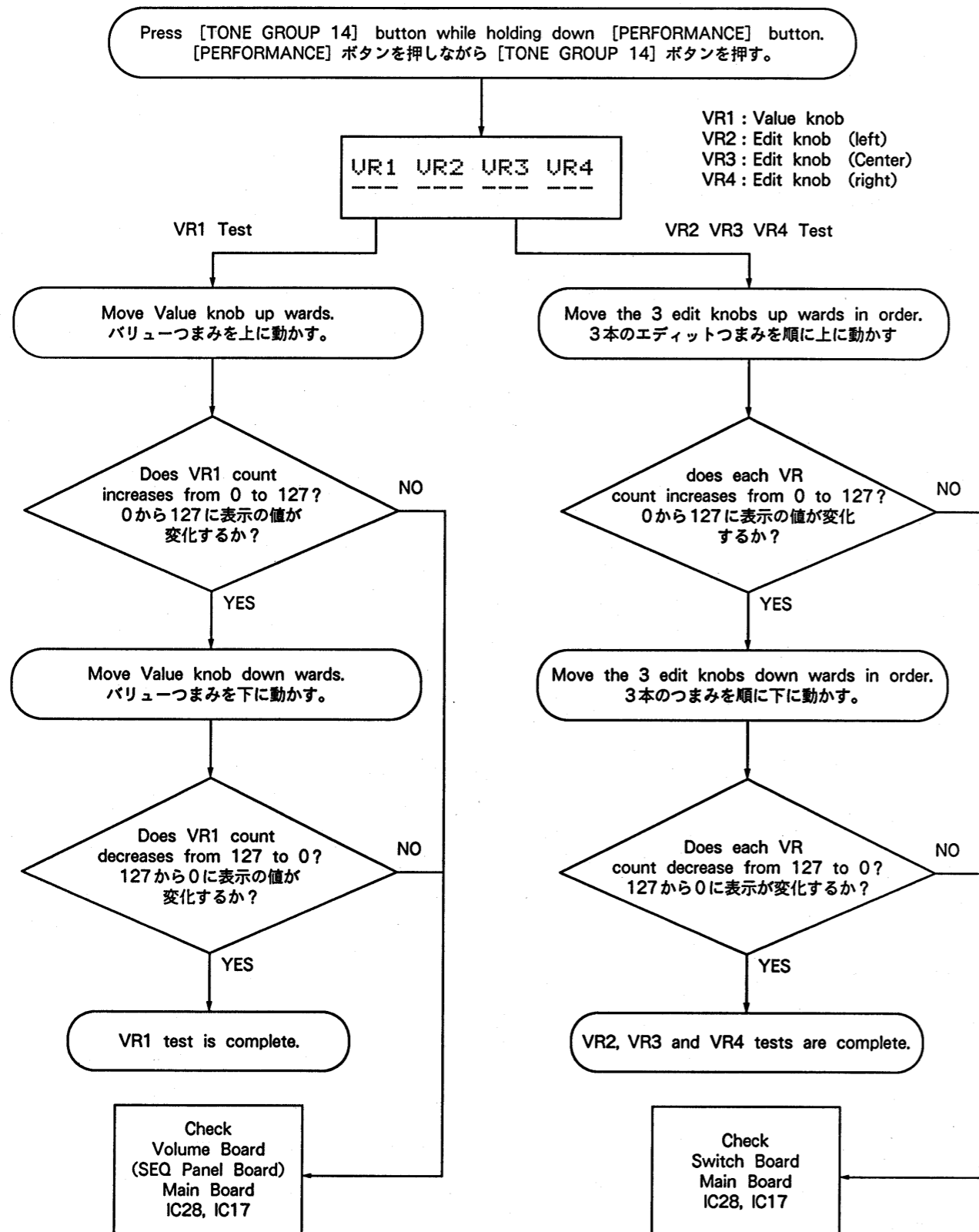
14. A/D Test 1

14.A/Dテスト



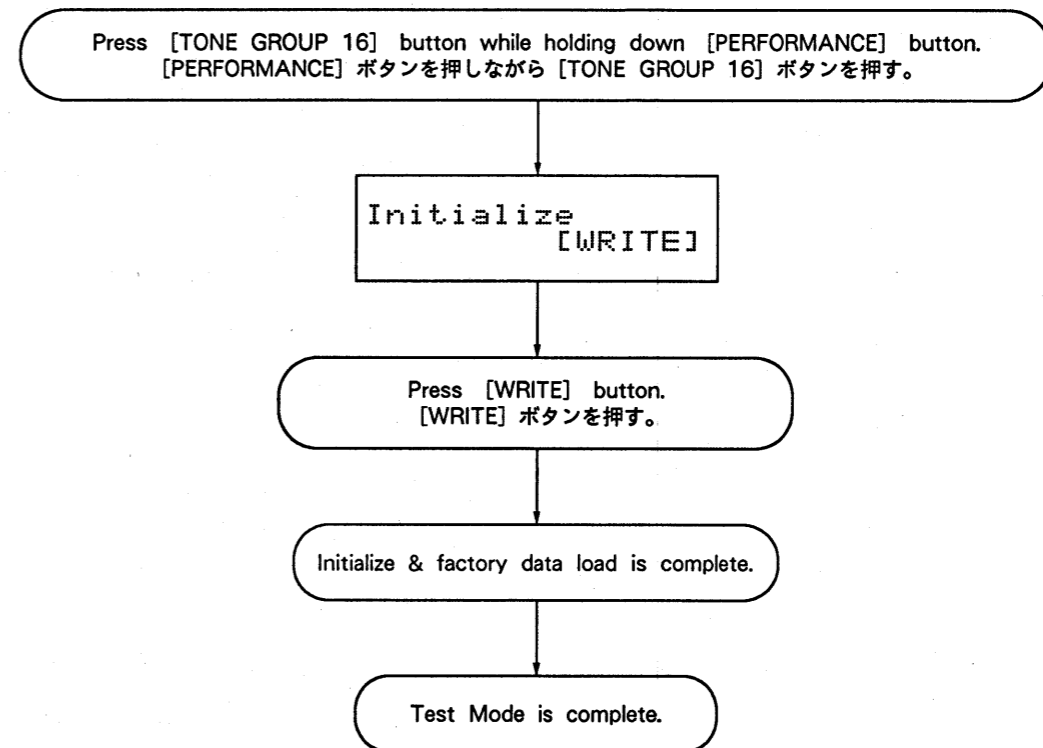
15. A/D Test 2

15.A/Dテスト 2



16. Initialize

16.イニシャライズ



* When MIN and MAX are displayed in all tests, "*" appears.
You cannot exit from A/D Test 2 mode, unless "*" is displayed.
* 全てのテストで最小値、最大値が表示されると "*" が表示されます。
A/D Test 2 は、 "*" が表示されなければ抜けることはできません。

SMF Player section/SMF プレーヤー部 (JV-50 only)

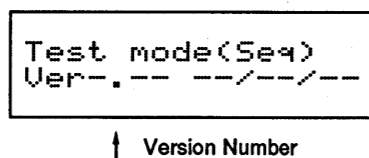
| | |
|---|---|
| To enter the Test Mode テストモードの入り方 | While simultaneously pressing the [PROGRAM], [REPEAT] and [FWD] buttons, turn the power on. [PROGRAM]と[REPEAT]と[FWD]のボタンを押しながら電源を入れます。 |
| To select a Test directly テストの選択方法(ダイレクト) | The following four tests are available in SMF Player section. SMF プレーヤー部には以下の4のテストがあります。 1.Verification of Version Number & RAM Test 2.FDD Test [PAUSE]+[REPEAT] 3.Switch Test [PAUSE]+[BWD] 4.LED Test [PAUSE]+[FWD] |
| To select a Test in sequence テストの選択方法(順送り) | When you press the [SONG>] ([SONG<]) button while holding down the [PAUSE] button, you move to the next (previous) Test Item. 次(前)のテスト項目に移るときには、[PAUSE]ボタンを押しながら[SONG>]([SONG<]) ボタンを押します。 |
| To exit the Test Item 各テスト項目の抜け方 | You cannot exit the Test Item unless the display shows an "OK" after having passed each Test Item, fundamentally. 原則として、それぞれのテストは実施後"OK"が出ないと抜けられません。 You can exit the test item by pressing the [REC] button while holding down the [DISPLAY] button. [DISPLAY]ボタンを押しながら[REC]ボタンを押すと強制的に抜けられます。 |
| To exit the Test Mode テストモードの抜け方 | When the display shows "OK" after having passed each Test Item, press the [REC] button while holding down the [PAUSE] button. 各テスト"OK"の表示の際に[PAUSE]ボタンを押しながら[REC]ボタンを押します。 |

1. Verification of Version Number & RAM Test

1. バージョン確認、RAMテスト

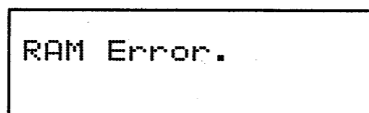
In the Test Mode, the following display will first appear.

テストモードに入ると、最初にこの画面が表示されます。



The Version number display means that RAM Test is complete.
If the RAM is faulty, an error message will appear and the unit will stop functioning at the same time.
(Note that for certain kinds of errors, the Version number will not appear and the unit will not function.)

バージョンナンバーの表示が、RAMテストのOKとなります。
この際、RAMに異常があれば、エラー表示と共に止まります。
(エラーによっては、バージョン表示がでないままハングアップすることがあります。)

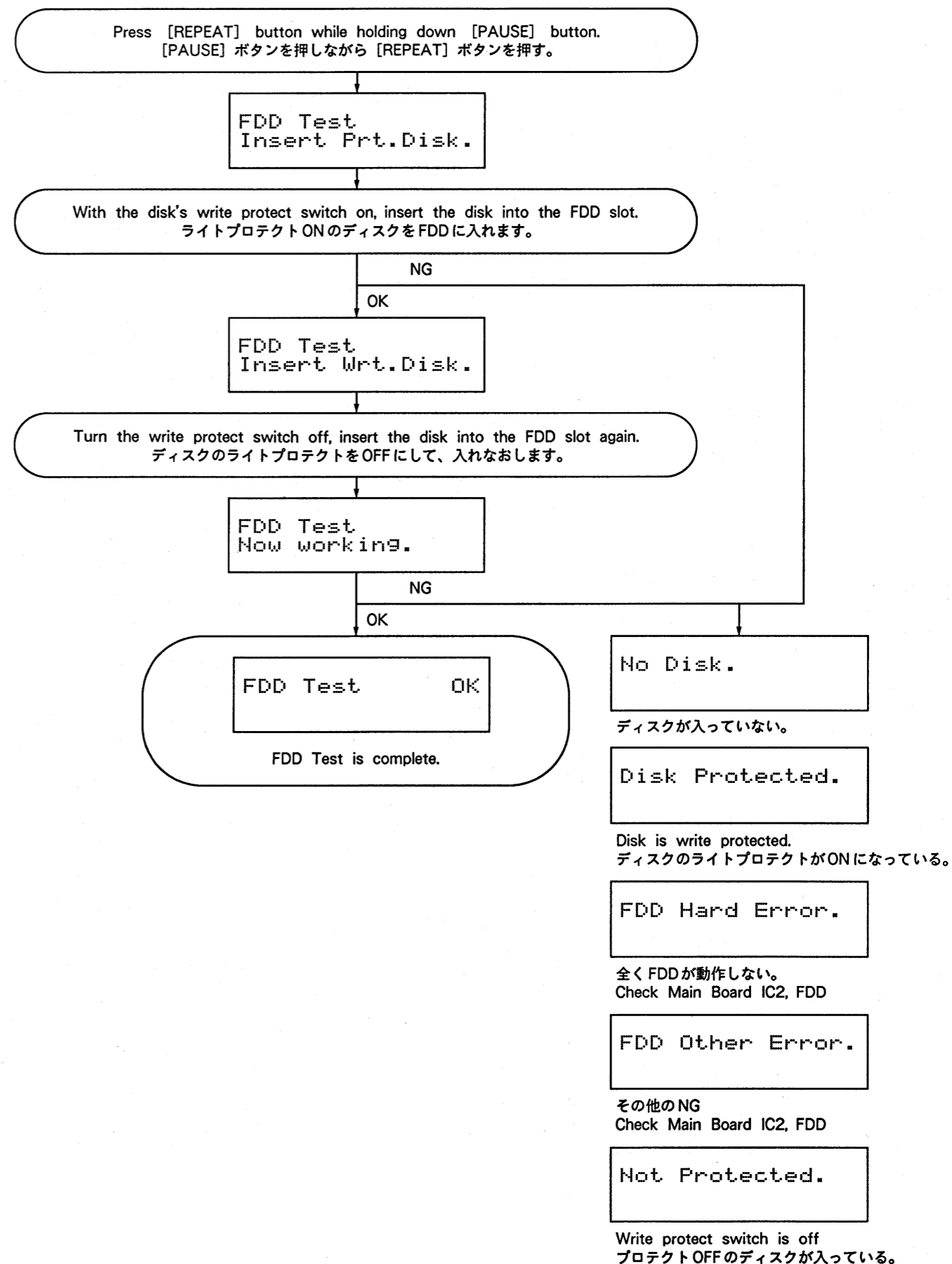


2. FDD Test

2. FDDテスト

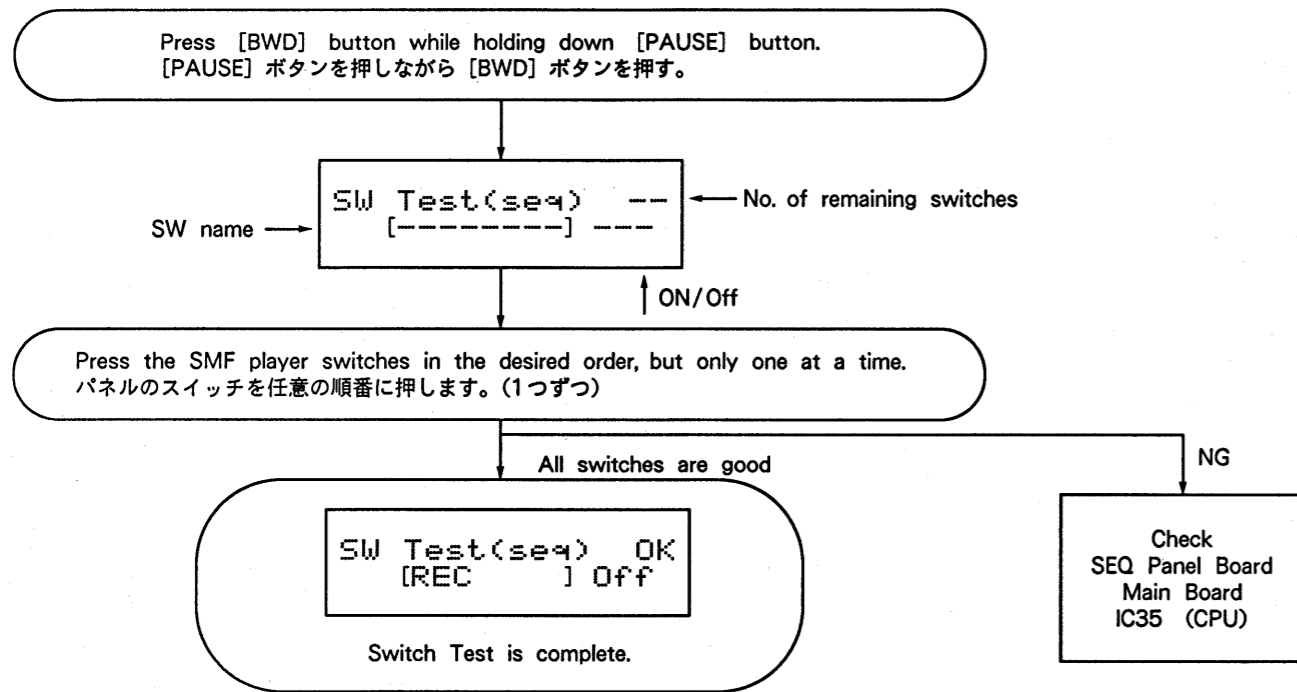
Prepare a blank 3.5 inch disk having since the test erases any data already on the disk.

検査用の3.5インチディスクを用意してください。
書き込み可能なディスクなら、どんなディスクでも構いません。
できれば、ブランクディスクを用意してください。
ディスクの内容は、検査によって失われます。



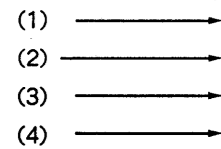
3. Switch Test

3. スイッチテスト



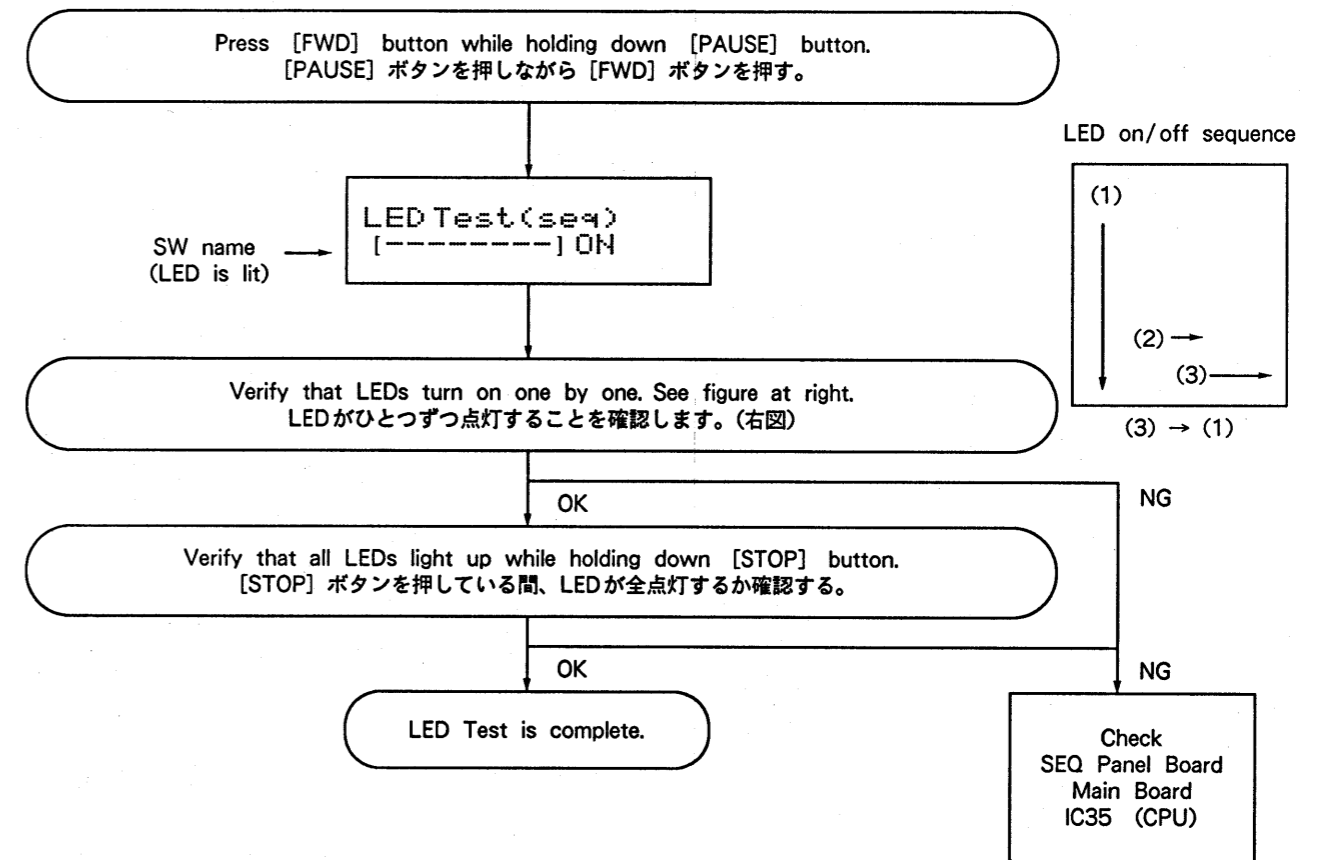
- * When the amp is connected to the OUTPUT jack, sound is output when a button is pressed. Scale sounds in sequence when the panel switches are pressed in order.
- * OUTPUT ジャックにアンプを接続しておけば、ボタンを押したときに音が出ます。パネル上のスイッチを順番に押すと、音階順に発音します。

Scale sequence/音階順序



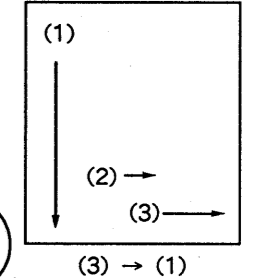
4. LED Test

4. LEDテスト



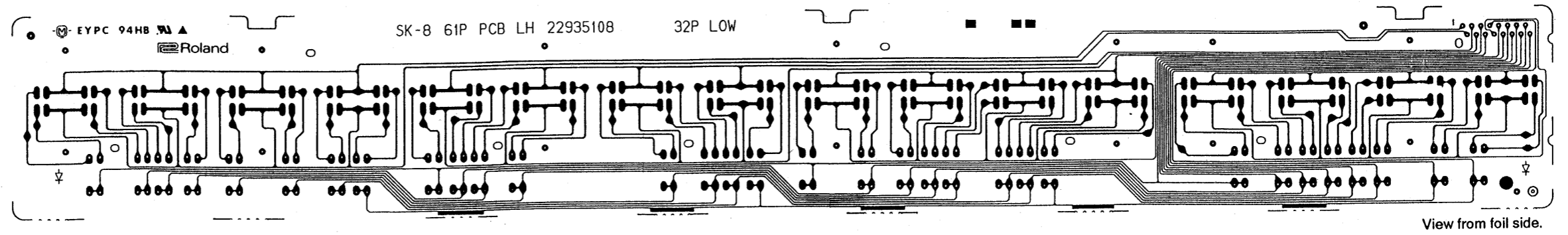
- * The on/off rate of the LED can be adjusted by pressing the [TEMPO<] and [TEMPO>] buttons.
- * LEDの点灯スピードは、[TEMPO<] ボタンと [TEMPO>] ボタンで調節できます。
- * Each time you press the [PLAY] button, the on/off order of LED switches in reverse order.
- * [PLAY] ボタンを押す度に、点灯順番が逆回りに変わります。

LED on/off sequence

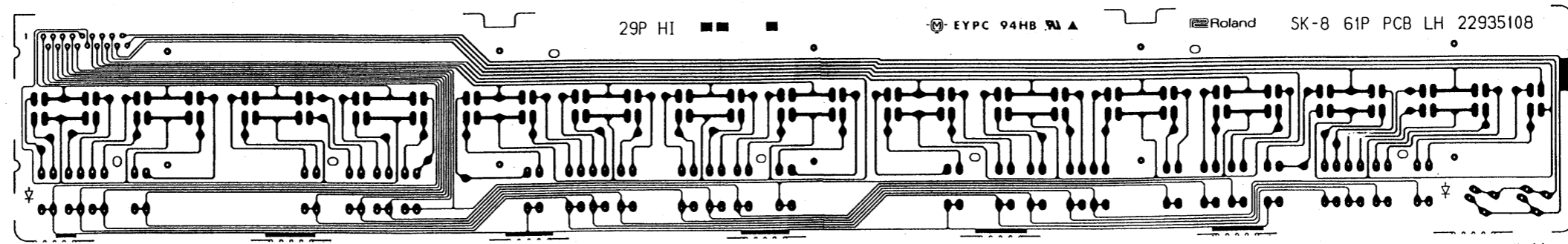


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

CIRCUIT BOARD (KEYBOARD) / 基板図 (KEYBOARD)

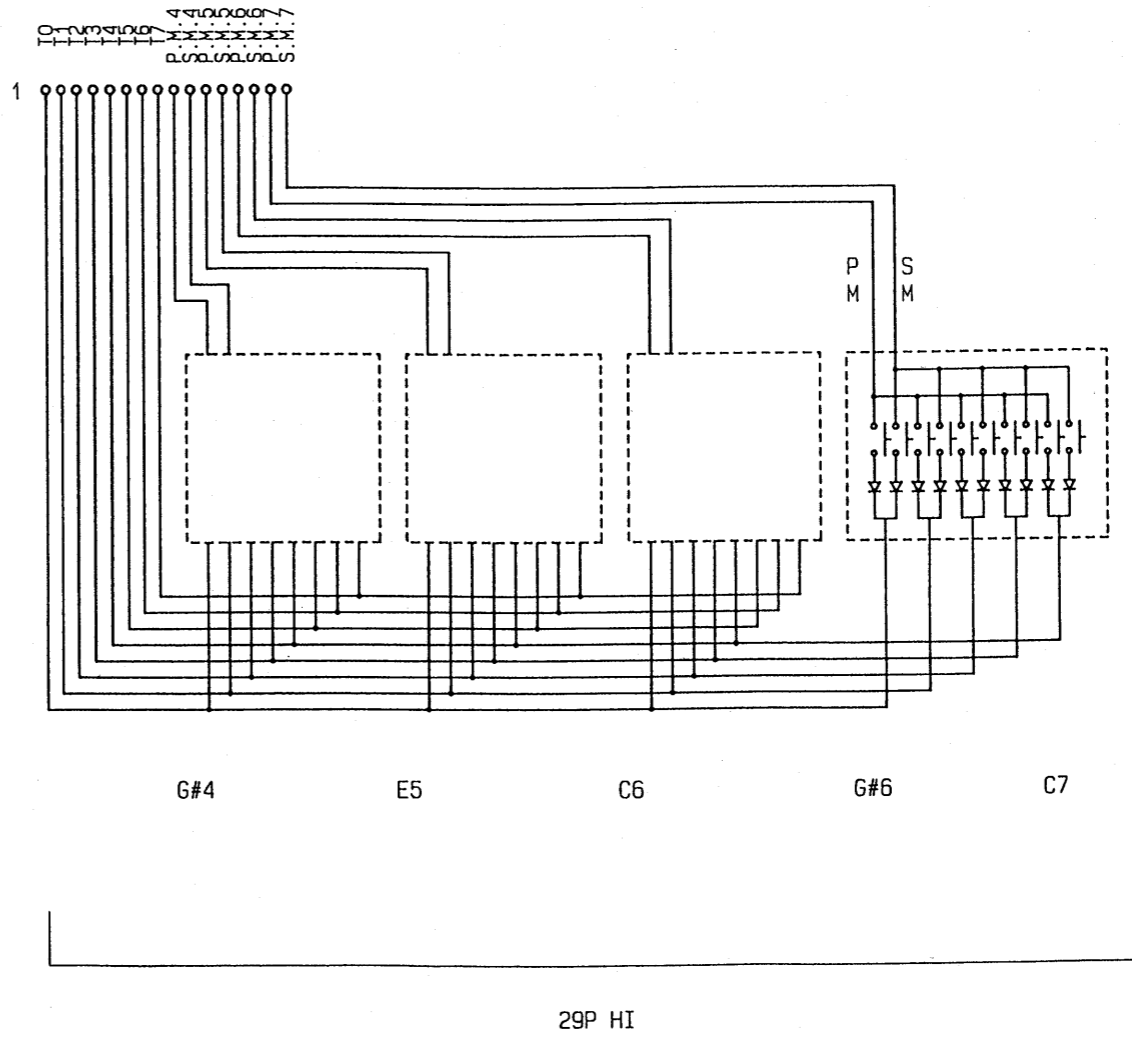
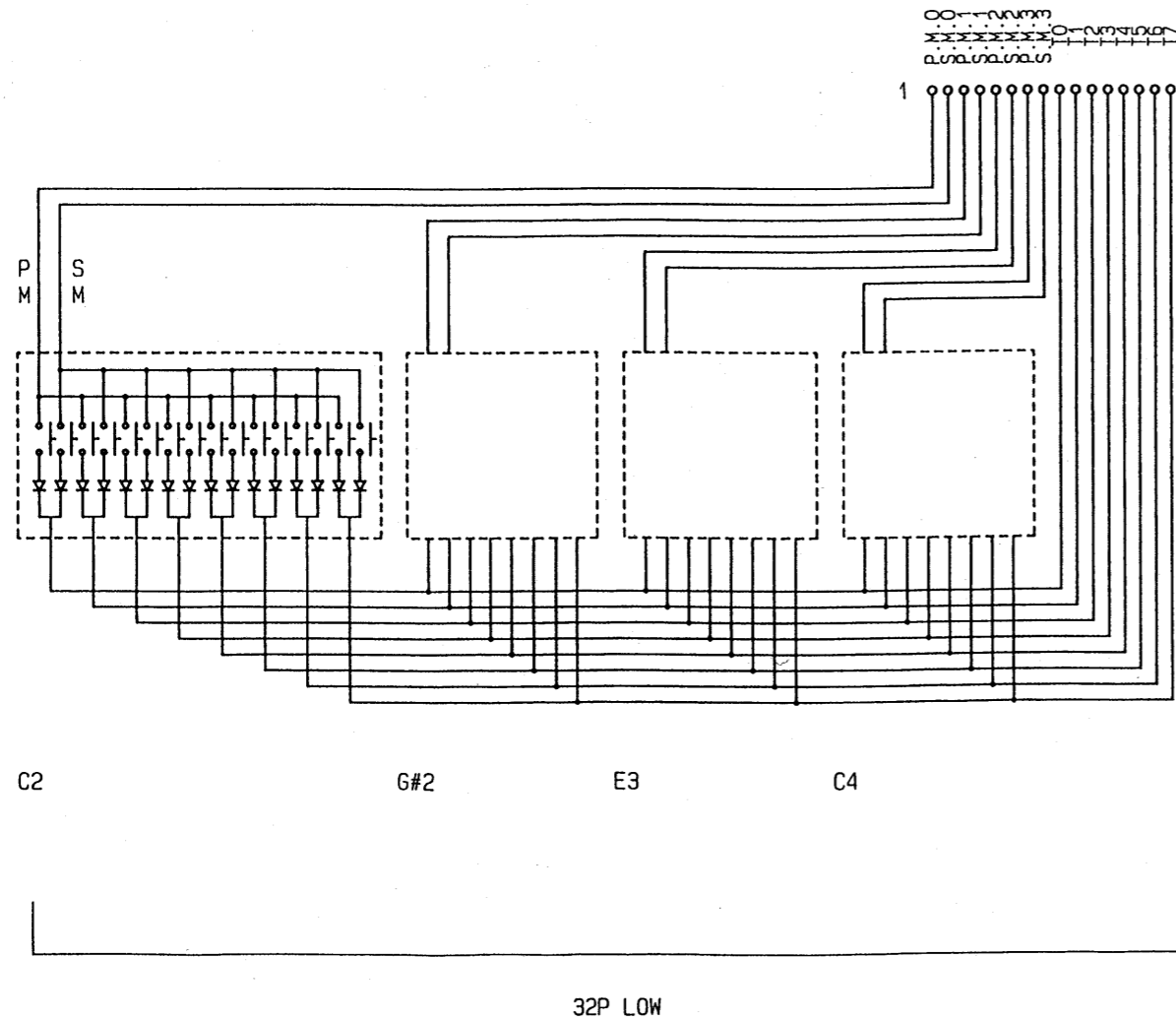


View from foil side.



View from foil side.

CIRCUIT DIAGRAM (KEYBOARD) / 回路図 (KEYBOARD)



A
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C
D
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G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V

E Main Board Assy

ASSY 70128390
(pcb 00126945) 【JV-50】
ASSY 70122145
(pcb 00126945) 【JV-35】

NOTE

Replacement Main Board Assy does not include the Lithium Battery.
Because lithium battery dose not use for the back- up of factory presets.
Order proper the lithium battery separately if necessary.
Main Board Assy 上に装着されているリチウム電池は、“工場出荷時のデータ”を保持する目的では、使用されていませんので、MAIN BOARD ASSYをオーダーしても、リチウム電池は、装着されていませんので注意して下さい。
リチウム電池が、必要な方は、別途オーダーして下さい。
12569249S0 Lithium Battery

For Nordic Countries

Apparatus containing Lithium batteries

ADVARSEL!

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VARNING!

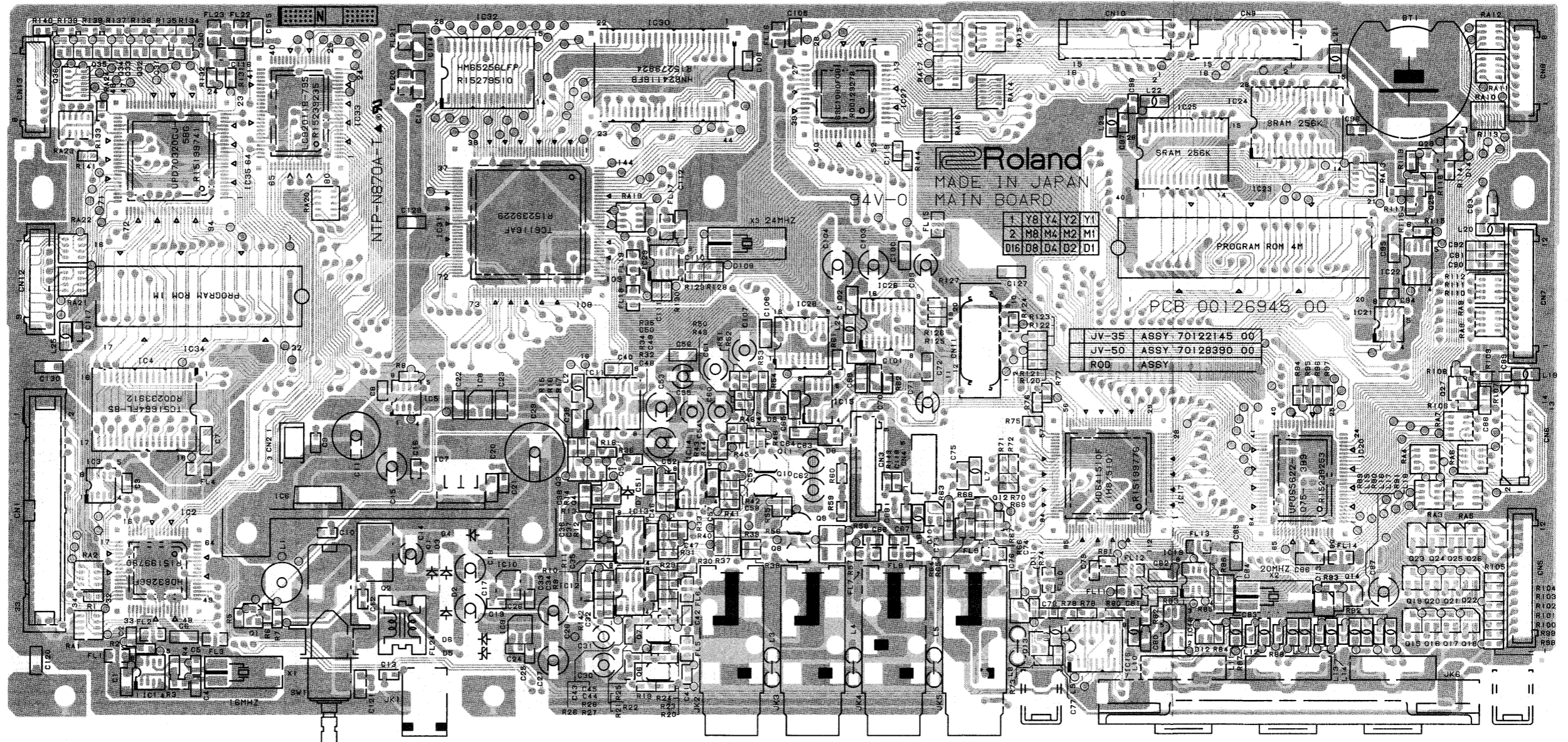
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri – Eksplosjonsfare.
Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

VAROITUS!

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.



View from components side.

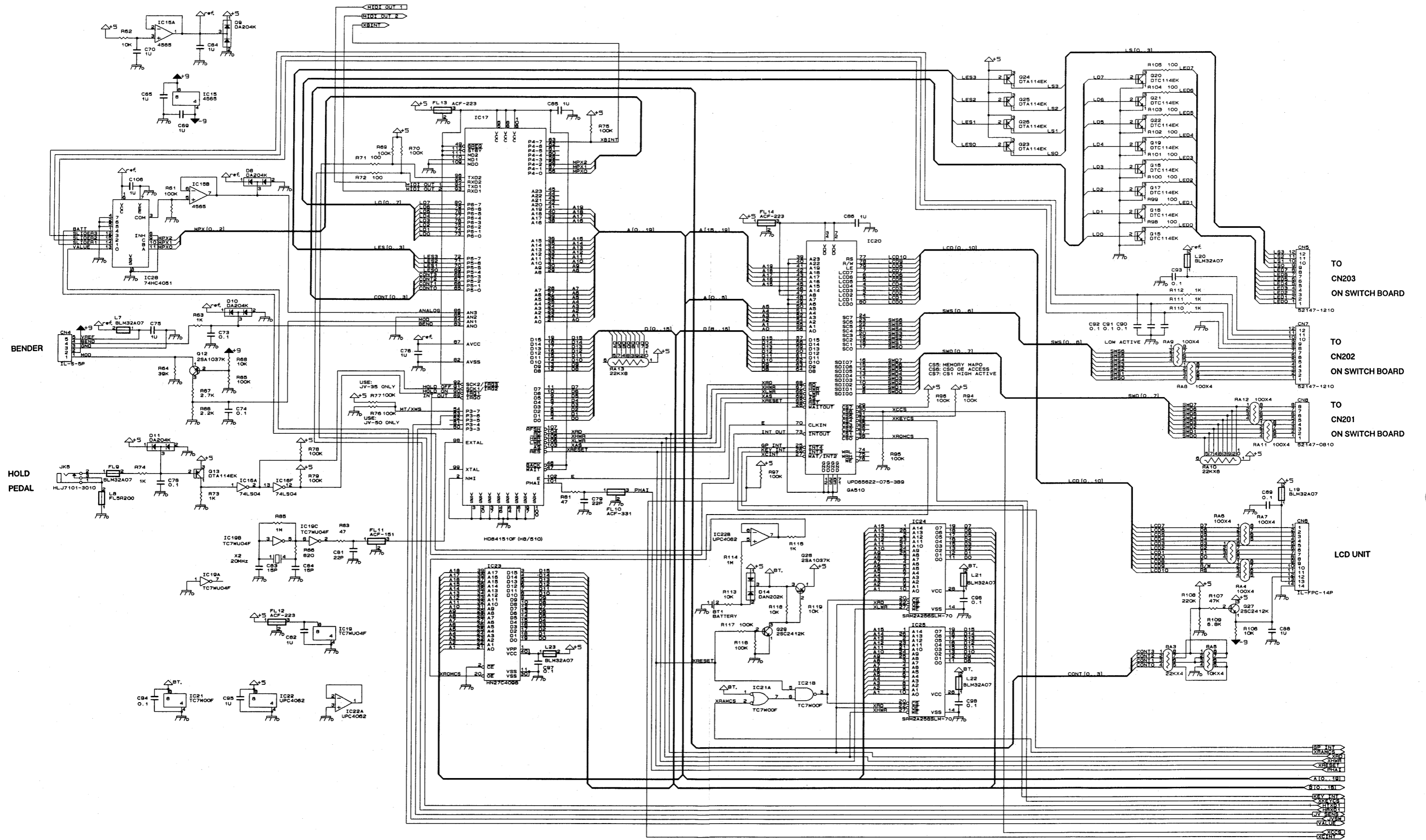
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V

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

CIRCUIT DIAGRAM / 回路図 (MAIN)

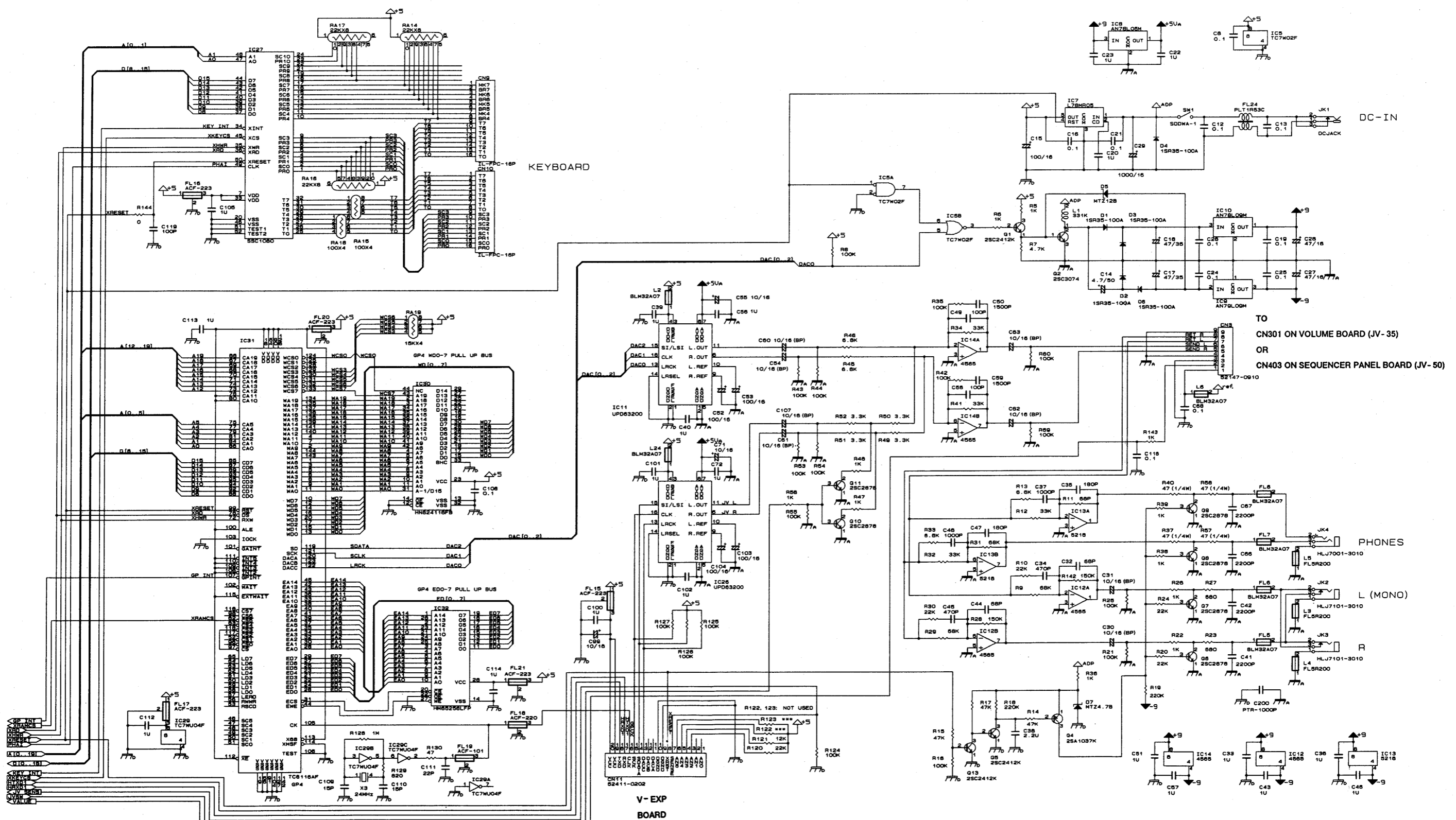
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V



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

CIRCUIT DIAGRAM / 回路図 (MAIN)

A
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D
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F
G
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TO CN301 ON VOLUME BOARD (JV-35)
OR
CN403 ON SEQUENCER PANEL BOARD (JV-50)

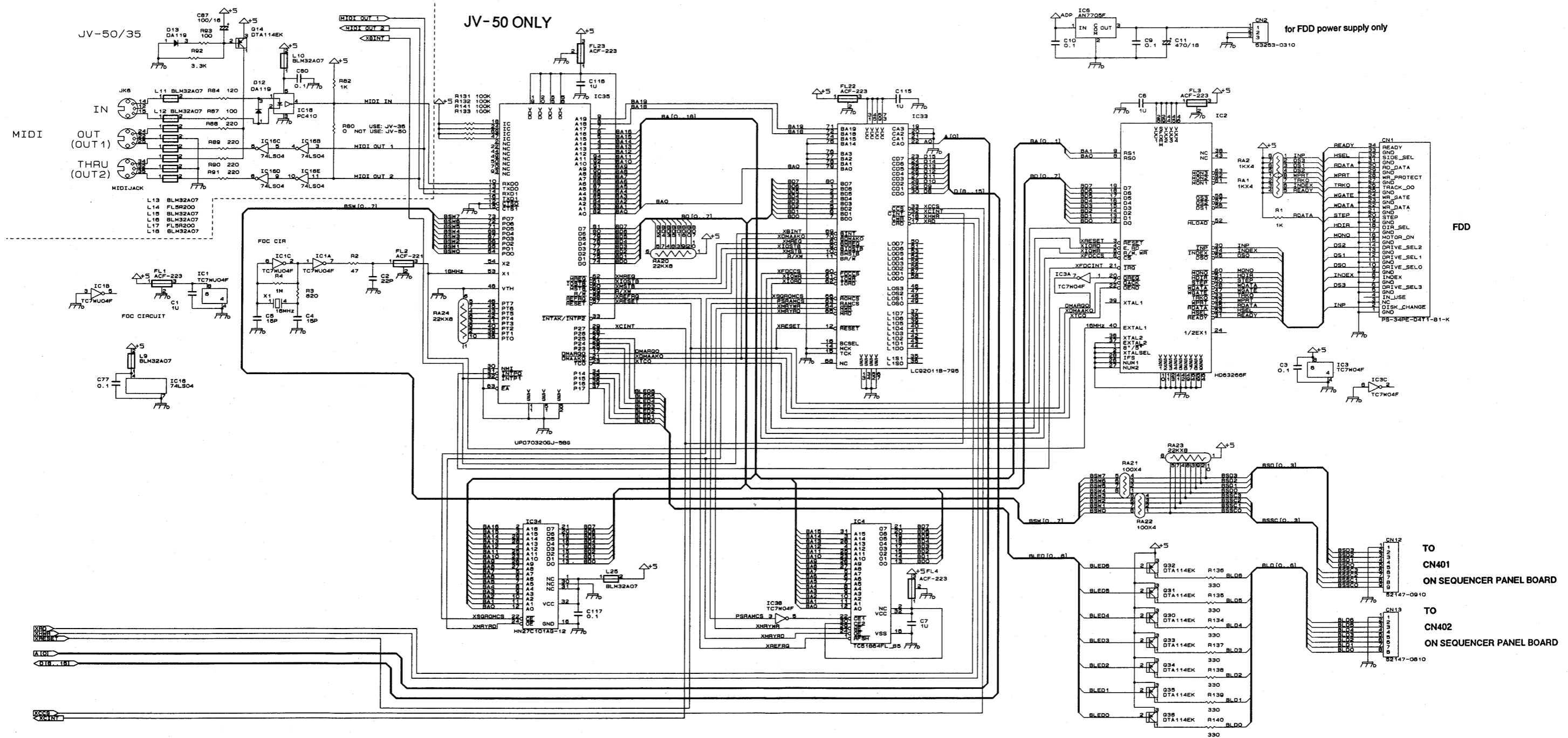
PHONES

L (MONO)

V-EXP BOARD

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

CIRCUIT DIAGRAM / 回路图 (MAIN)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

A
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CIRCUIT BOARD / 基板図 (SWITCH)

70121467

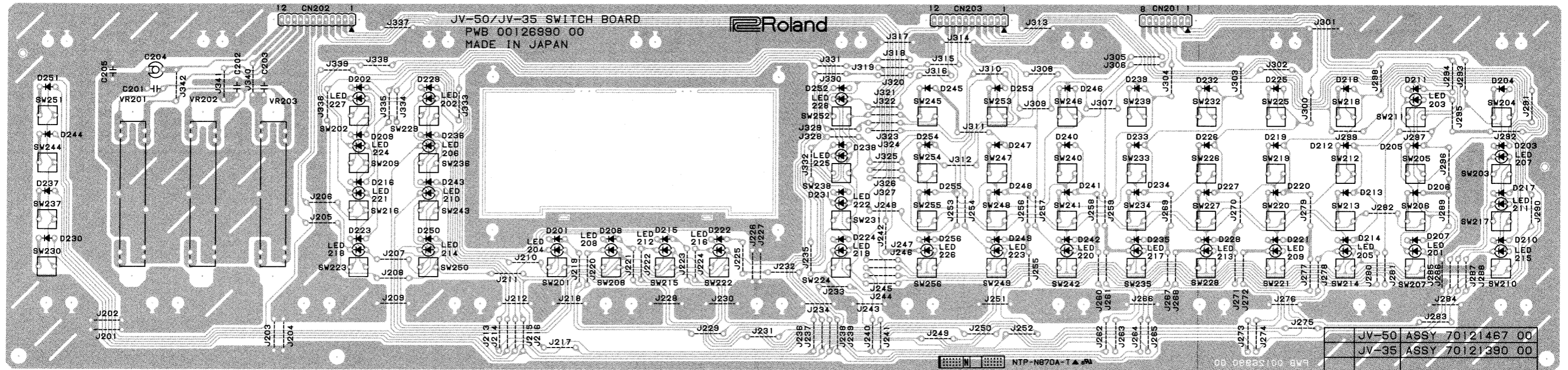
(pcb 00126990) 【JV-50】

70121390

(pcb 00126990) 【JV-35】

NOTE

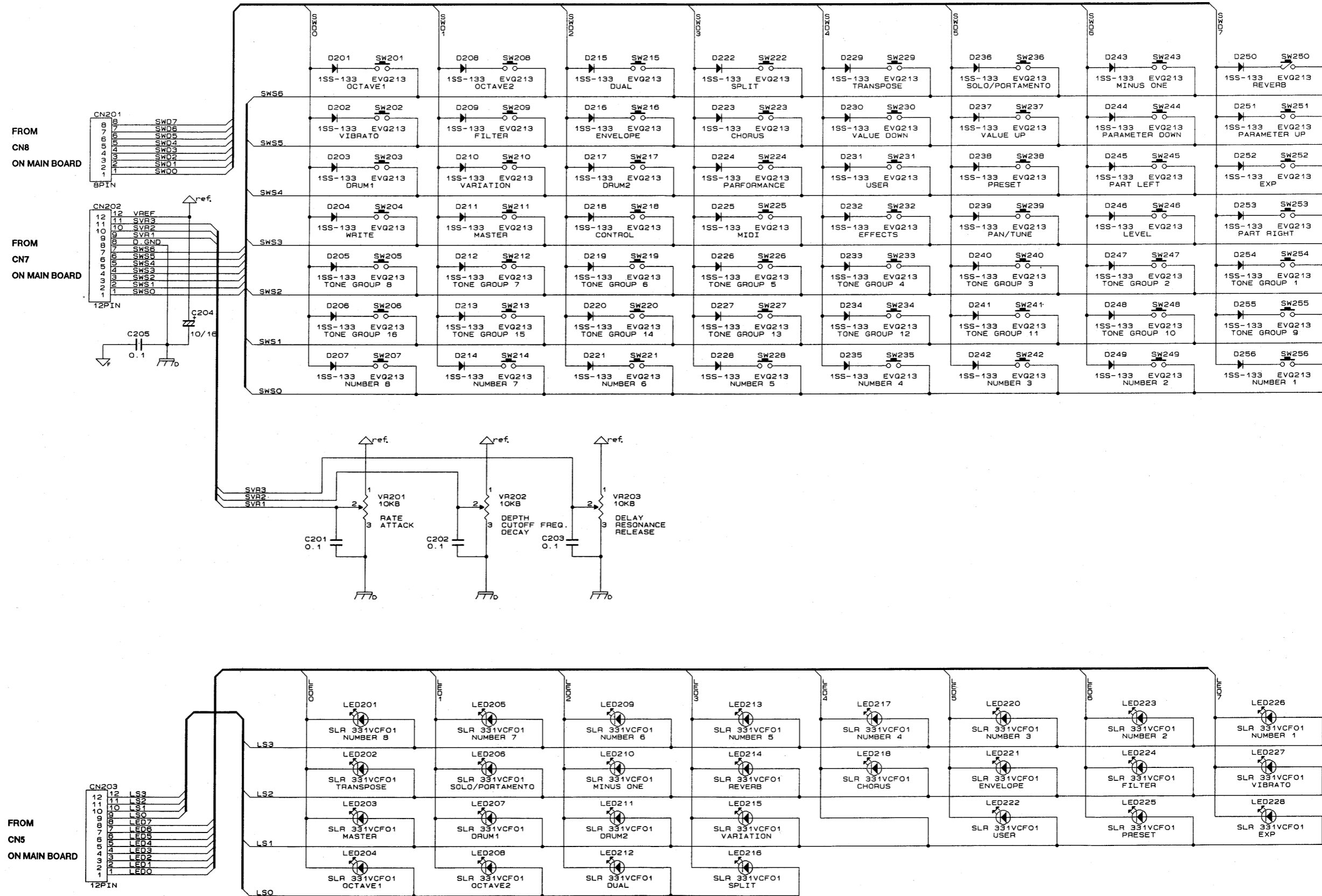
JV-50/35 Switch Board Assy includes Wiring W-1 and W-2.
JV-50/35 Switch Board Assy には、Wiring W-1、W-2が含まれます。



View from components side.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

CIRCUIT DIAGRAM / 回路図 (SWITCH)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

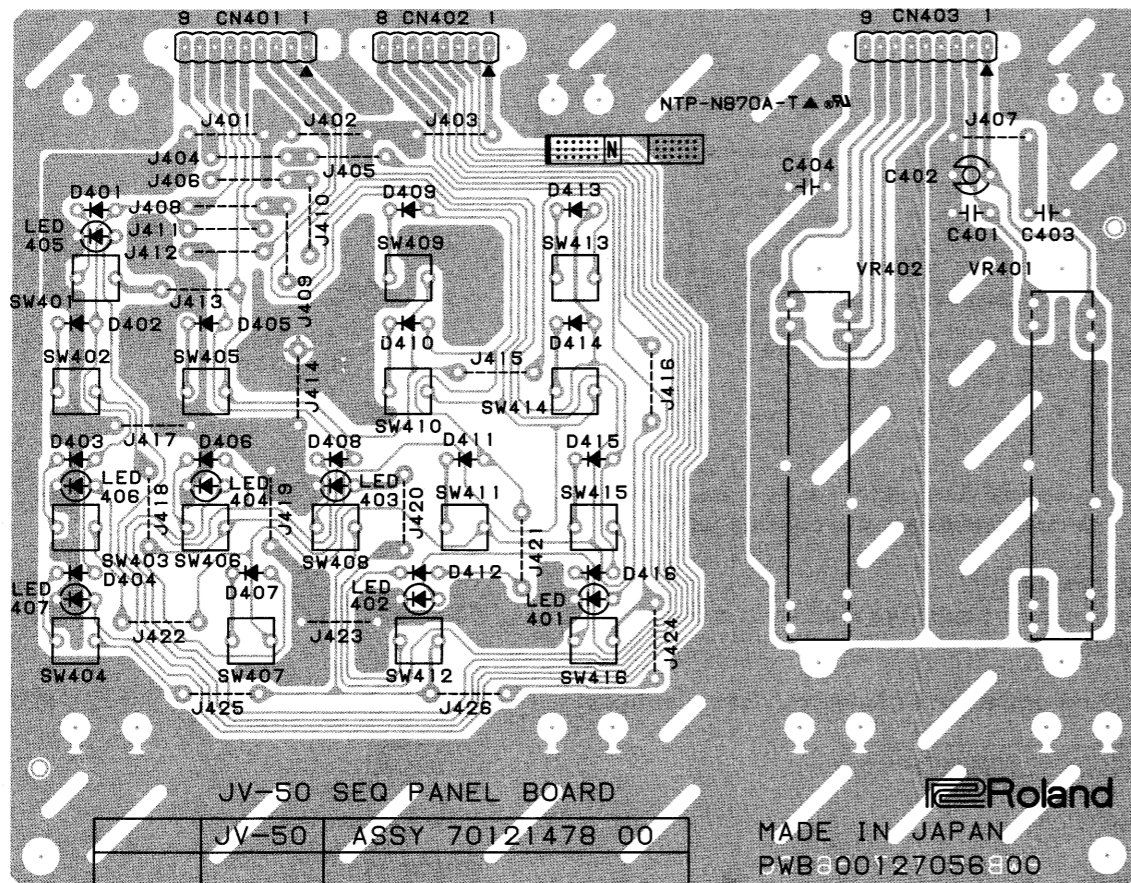
CIRCUIT BOARD / 基板図 (SEQUENCER)

70121478
(pcb 00127056) 【JV-50】

NOTE

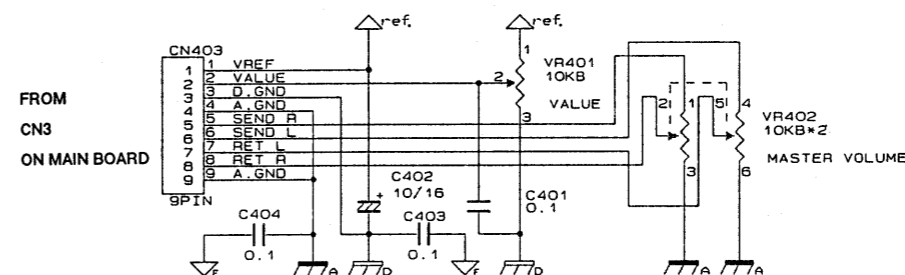
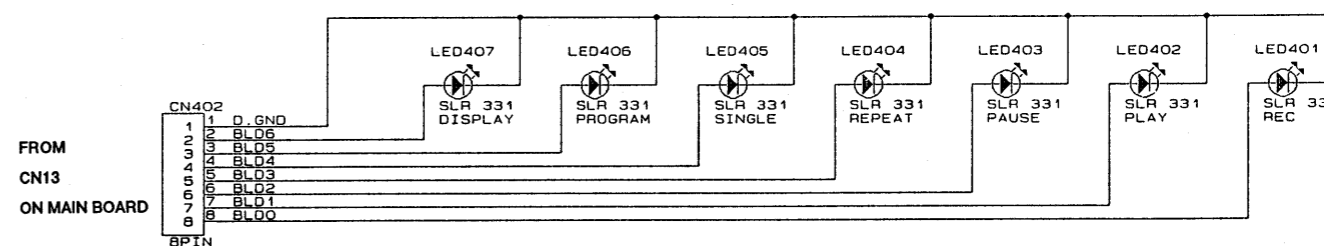
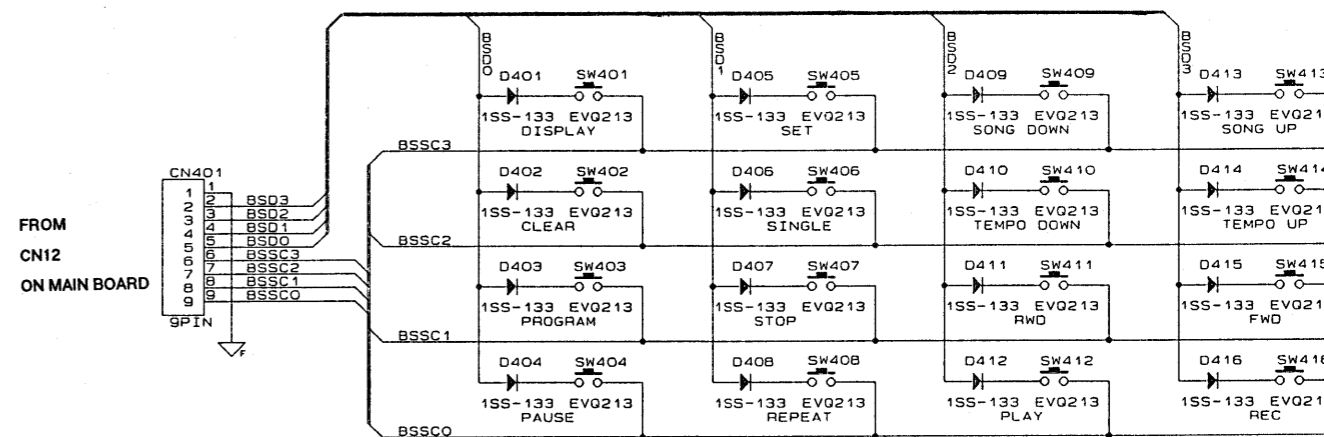
JV-50 Sequencer Panel Board includes Wiring W-4, W-5 and W-6.

JV-50 Sequencer Panel Board には、Wiring W-4, W-5, W-6 が含まれます



View from components side.

CIRCUIT DIAGRAM / 回路図 (SEQUENCER)



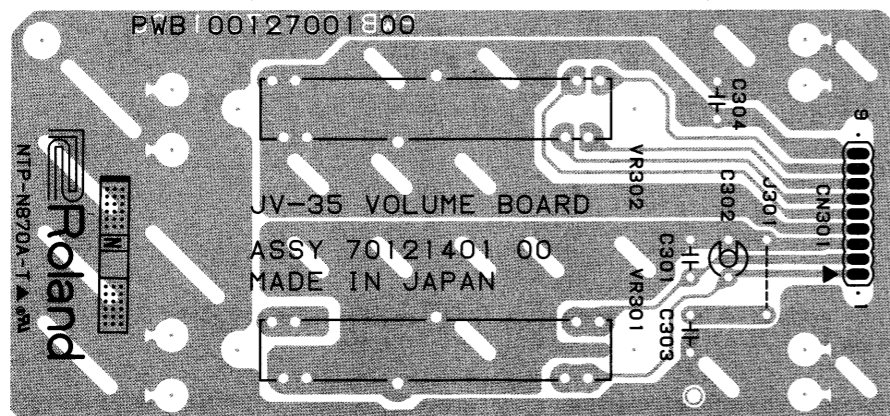
CIRCUIT BOARD / 基板図 (VOLUME)

70121401
(pcb 00127001) 【JV-35】

NOTE

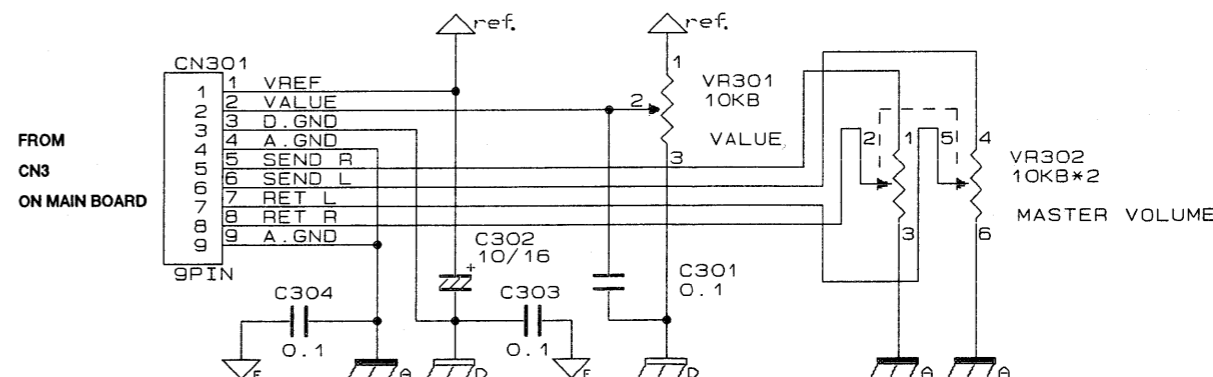
JV-35 Volume Board Assy includes Wiring W-6.

JV-35 Volume Board Assy には、Wiring W-6 が含まれます。



View from components side.

CIRCUIT DIAGRAM / 回路図 (VOLUME)



CHANGE INFORMATION

HARDWARE MODIFICATION

Changes of constants of the main board components

Serial number applied

JV-50 ZF70200—
JV-35 ZF82900—

Changes

○ Changes of constants of the filter circuit components

| | Before change 変更前 | After change 変更後 |
|-----|----------------------|---------------------|
| C32 | 680pF | 68pF |
| C34 | 4700pF | 470pF |
| C35 | 2200pF | 180pF |
| C37 | 10000pF | 1000pF |
| C44 | 680pF | 68pF |
| C45 | 4700pF | 470pF |
| C47 | 2200pF | 180pF |
| C48 | 10000pF | 1000pF |

Reason : To reduce the effects of the master volume on the output sound.

○ Change of constant of the mute circuit components

| | Before change 変更前 | After change 変更後 |
|-----|----------------------|---------------------|
| C38 | 1 μ F | 2.2 μ F |

Reason : To improve the mute operation.

○ Change of constant of the reset circuit components

| | Before change 変更前 | After change 変更後 |
|------|----------------------|---------------------|
| C119 | 100pF | 1000pF |

Reason : To improve the resistance to static electricity

Service Response

There is no need for additional service response.

Cutting off the connector pins

Changes

The pins of connectors CN7, CN8, CN12 and CN13, which project from the solder surface, have been trimmed. (See the illustrations below.)

変更案内

ハードウェア変更

メインボード部品定数変更

実施製番

JV-50 ZF70200—
JV-35 ZF82900—

変更内容

○ フィルター回路部品定数変更

| | Before change 変更前 | After change 変更後 |
|------|----------------------|---------------------|
| R9 | 6.8K Ω | 68K Ω |
| R10 | 2.2K Ω | 22K Ω |
| R11 | 6.8K Ω | 68K Ω |
| R12 | 3.3K Ω | 33K Ω |
| R13 | 680 Ω | 6.8K Ω |
| R28 | 15K Ω | 150K Ω |
| R29 | 6.8K Ω | 68K Ω |
| R30 | 2.2K Ω | 22K Ω |
| R31 | 6.8K Ω | 68K Ω |
| R32 | 3.3K Ω | 33K Ω |
| R33 | 680 Ω | 6.8K Ω |
| R142 | 15K Ω | 150K Ω |

理由 : マスターボリュームによる音色への影響を軽減させるため。

○ ミュート回路部品定数変更

理由 : ミュート動作の改善のため。

○ reset 周辺回路

理由 : 耐静電気性の向上のため。

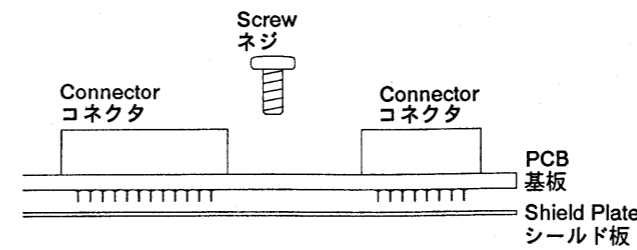
サービスとしての対応

特にありません。

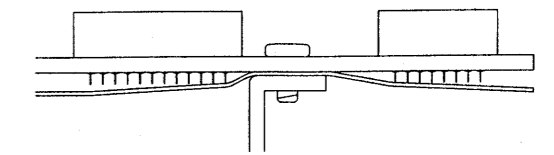
コネクタ足カット

変更内容

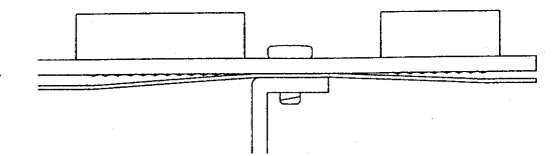
CN7, CN8, CN12, CN13のハンダ面に出ている部品足をカットしている。(イラスト参照)



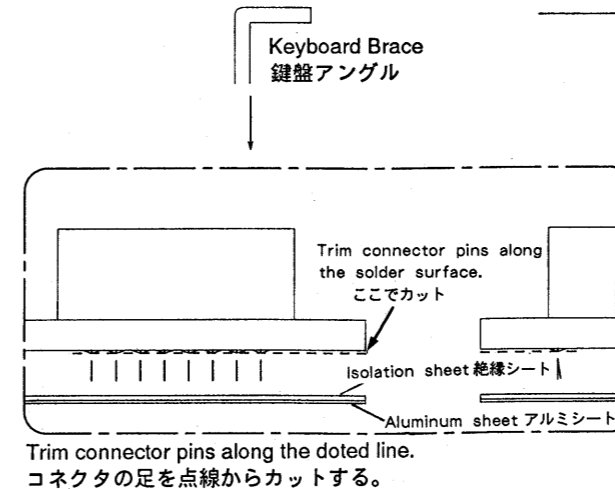
Connector pins may stick to the shield plate when the PCB is secured to the brace.
コネクタの足がシールド板にささる。



Fix the pcb to the brace.
鍵盤アングルに固定。



Trimmed pins scarcely stick to the isolation sheet.
ささりにくくなる。



Reason : To eliminate the possibility that the connector pins may stick to the isolation sheet on the shield plate.

Service response

When replacing parts, trim the pins of the above connectors along the solder surface.

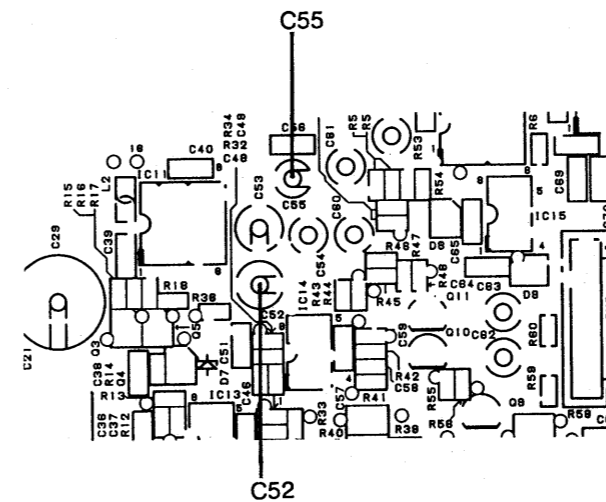
Mounting orientation of electrolytic capacitors

Serial number applied

JV-35 ZF71400—
JV-50 ZF70200—

Changes

Electrolytic capacitors C52 and C55 have been mounted with a reverse polarity of the silk - printed polarity marking on the capacitor.



Reason : The silk - printed polarity marking on the PCB differs from the actual pattern wiring.

We will correct this silk - printed marking when the PCB is modified.

理由 : コネクタの端子がシールド板の絶縁シートを突き破る可能性があるため。

サービスとしての対応

部品交換時には上記コネクタの端子をハンダ面でカットしてください。

C52, C55 電解コンデンサの取り付け方向について

実施製番

JV-35 ZF71400—
JV-50 ZF70200—

変更内容

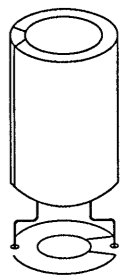
C52, C55 電解コンデンサの極性をシルク表示と逆にして取り付ける。

Silk - printed marking
シルク

Capacitor
コンデンサ

+ ⊖ -

+ ⊖ -



理由 : 基板上のシルクの極性表示とパターン配線が間違っているため。

なお、基板改版時にシルク表示を修正する予定です。